

## Data Report 1999

### Acidifying and eutrophying compounds Part 2: Monthly and seasonal summaries

Anne-Gunn Hjellbrekke

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.07 | 0.41 | 0.06 | 0.05 | 0.06 | 0.12 | 0.10 | 0.15 | 0.11 | 0.12 | 0.30 | 0.20 |
| 1.71 | 1.38 | 0.77 | 0.34 | 0.32 | 0.36 | 0.22 | 0.22 | 0.61 | 0.88 | 1.26 | 0.74 |
| 0.44 | 1.13 | 0.38 | 0.30 | 0.26 | 0.07 | 0.10 | 0.10 | 0.14 | 0.32 | 0.87 | 0.34 |
| 1.02 | 0.57 | 1.00 | 0.55 | 0.60 | 0.18 | 0.40 | 0.54 | 0.93 | 0.64 | 0.68 | 0.43 |
| 0.86 | 3.24 | 0.66 | 0.68 | 0.55 | 0.48 | 0.42 | 0.24 | 0.57 | 0.59 | 1.17 | 0.44 |
| 0.91 | 0.83 | 1.07 | 0.38 | 0.61 | 0.51 | 0.41 | 0.20 | 1.20 | 1.03 | 0.78 | 0.62 |
| 0.66 | 0.52 | 0.64 | 0.44 | 0.52 | 0.26 | 0.25 | 1.37 | 0.75 | 0.36 | 0.44 | 0.18 |
| 0.93 | 0.61 | 0.95 | 0.77 | 0.77 | 0.59 | -    | 0.45 | 1.22 | 0.68 | 0.80 | 0.81 |
| 0.83 | 0.41 | 0.92 | 0.90 | 0.67 | 0.43 | 0.70 | 0.60 | 1.02 | 0.49 | 0.66 | 0.39 |
| 2.11 | 2.06 | 2.23 | 1.11 | 0.34 | 0.65 | 0.27 | 0.27 | 0.33 | 0.28 | 0.57 | 1.36 |
| 1.06 | 0.75 | 1.18 | 0.34 | 0.37 | 0.33 | 0.29 | 0.23 | 0.22 | 0.20 | 1.24 | 0.93 |
| 0.48 | 4.02 | 1.63 | 0.25 | 0.42 | 2.77 | 0.92 | 0.46 | 0.40 | 0.56 | 0.70 | 2.31 |
| 0.70 | 1.76 | 1.64 | 0.27 | 0.38 | 1.17 | 0.50 | 0.42 | 1.06 | 1.02 | 0.78 | 2.04 |
| 0.38 | 1.63 | 0.79 | 0.75 | 0.60 | 4.15 | 1.89 | 0.90 | 1.02 | 0.43 | 1.18 | 1.91 |
| -    | -    | -    | 0.25 | 0.60 | 2.27 | 1.78 | 0.55 | 1.31 | 1.22 | 1.10 | 2.04 |
| 0.27 | 1.68 | 0.43 | 0.38 | 0.43 | 0.82 | 0.39 | 0.71 | 0.52 | 0.41 | 1.38 | 1.51 |
| 1.12 | 5.29 | 2.15 | 0.51 | 0.61 | 1.24 | 0.94 | 0.91 | 0.51 | 0.96 | 1.89 | 3.77 |
| 0.68 | 2.08 | 0.68 | 0.79 | 0.58 | 1.54 | 0.67 | 0.50 | 1.28 | 0.82 | 1.78 | 1.76 |
| 0.27 | 2.04 | 2.08 | 0.28 | 0.55 | 0.66 | 1.28 | 0.58 | 1.10 | 0.69 | 2.93 | 1.68 |
| 0.38 | -    | 1.40 | 0.28 | 0.72 | 0.76 | 1.54 | 0.60 | 0.45 | 0.27 | 2.44 | 1.65 |
| 0.38 | 1.32 | 0.71 | 0.25 | 0.27 | 0.30 | 0.52 | 1.71 | 0.35 | 0.44 | 1.40 | 1.13 |
| 1.08 | 0.36 | 0.98 | 0.36 | 0.49 | 0.45 | 0.34 | 0.31 | 0.37 | 0.44 | 0.51 | 0.57 |
| 1.08 | 2.76 | 1.92 | 0.70 | 0.48 | 0.55 | 0.37 | 0.25 | 0.45 | 0.38 | 0.92 | 0.91 |
| 0.77 | 1.65 | 0.73 | 0.39 | 0.40 | 0.13 | 0.09 | 0.08 | 0.17 | 0.09 | 0.44 | 0.90 |
| 0.38 | 1.11 | 0.95 | 0.28 | 0.15 | 0.13 | 0.09 | 0.12 | 0.21 | 0.19 | 0.27 | 0.51 |
| 0.38 | 0.48 | 0.35 | 0.35 | 0.38 | 0.29 | 1.18 | 0.47 | 0.80 | 0.64 | 0.75 | 0.84 |
| 0.38 | 1.11 | 0.70 | 1.07 | 0.94 | 1.16 | 0.82 | 0.84 | 1.03 | 1.01 | 1.01 | 0.88 |
| 0.86 | 1.07 | 0.38 | 0.39 | 0.50 | 0.28 | 0.45 | 0.36 | 0.57 | 0.41 | 1.05 | 0.64 |
| 0.89 | -    | -    | 0.74 | 0.81 | 0.66 | 0.55 | 0.65 | 0.74 | 0.84 | 1.44 | 1.42 |
| 0.74 | 2.51 | 0.54 | 0.38 | 0.42 | 0.34 | 0.39 | 0.39 | 0.38 | 0.56 | 1.11 | 0.53 |
| 0.86 | 2.07 | 0.74 | 0.77 | 0.72 | 0.27 | 0.82 | 0.55 | 0.44 | 0.62 | 0.59 | 0.37 |
| 0.41 | 0.99 | 0.49 | 0.35 | 0.35 | 0.34 | 0.76 | 0.64 | 0.49 | 0.69 | 0.54 | 0.97 |
| 0.34 | 0.55 | 0.29 | 0.35 | 0.32 | 0.31 | 0.31 | 0.31 | 0.40 | 0.31 | 0.91 | 0.60 |
| 0.43 | 0.40 | 0.44 | 0.38 | 0.48 | 0.32 | 0.43 | 0.63 | 0.64 | 0.42 | 0.51 | 0.43 |
| 1.39 | 2.68 | 1.84 | 1.43 | 1.10 | 1.04 | 1.37 | 1.26 | 1.13 | 1.32 | 1.48 | 1.24 |
| 0.31 | 0.20 | 0.27 | 0.31 | 0.33 | 0.27 | 0.34 | 0.20 | 0.37 | 0.23 | 0.20 | 0.20 |
| 0.75 | 1.18 | 1.07 | 0.76 | 0.84 | 0.84 | 0.08 | 0.92 | 0.68 | 0.95 | 0.95 | 1.18 |
| 0.54 | 0.47 | 0.43 | 0.54 | 0.61 | 0.62 | 0.59 | 0.51 | 0.50 | 0.73 | 0.97 | 0.34 |
| 0.36 | 0.50 | 0.31 | 0.42 | 0.32 | 0.77 | 0.82 | 0.84 | 1.87 | 1.08 | 1.52 | 2.27 |
| 0.23 | 0.24 | 0.28 | 0.49 | 0.35 | 0.43 | 0.39 | 0.53 | 0.45 | 0.27 | 0.30 | 0.24 |
| 0.35 | 0.24 | 0.53 | 0.49 | 0.49 | 0.31 | 0.30 | 0.43 | 0.62 | 0.28 | 0.34 | 0.28 |
| 0.54 | 0.53 | 0.92 | 1.43 | 0.54 | 0.47 | 0.27 | 0.64 | 0.22 | 0.91 | 0.94 | 0.89 |



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**EMEP Co-operative Programme for Monitoring and Evaluation  
of the Long-range Transmission of Air Pollutants  
in Europe**

**Data Report 1999**  
**Acidifying and eutrophying compounds**  
**Part 2: Monthly and seasonal summaries**

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# **Data Report 1999**

## **Acidifying and eutrophying compounds**

### **Part 2: Monthly and seasonal summaries**

#### **1. Introduction**

Measurements of air quality in Europe have been carried out under the "Co-operative programme for monitoring and evaluation of the long-range transmission of air pollutants in Europe" (EMEP) since 1 October 1977. From the start, priority was given to sulphur dioxide and sulphate in air, and pH and sulphate in precipitation, gradually increasing to all main components in precipitation and ozone and nitrogen compounds in air. A few sites also measure VOC. EMEP does not yet have its own monitoring network for POPs and heavy metals, but existing data are collected and reported yearly.

The EMEP data from 1999 for acidifying and eutrophying components in air and precipitation have been presented in two reports. Part 2, contained in this volume, gives the monthly and seasonal summaries. Part 1, contained in EMEP/CCC-Report 2/2001, gives the annual summaries of the data from 1999.

In total, precipitation data from 86 stations and air data from 100 stations are presented in this report. The total number of measurement sites in this report is 105.

The air and precipitation samples were analysed at the laboratories in the participating countries and the results have been forwarded to the Chemical Co-ordinating Centre (CCC) at the Norwegian Institute for Air Research (NILU).

#### **2. The measurement network**

The locations of the measurement sites, which have delivered data during 1999, are given in Table 1 and Figure 1. In addition to the network presented here, there are additionally sites with other types of measurements.

In some parts of Europe, the site density is low and highly unsatisfactory. There is a need for more sites especially in the Mediterranean region and in the eastern parts of Europe.

There are no data from Valentia Observatory this year due to technical problems at the laboratory, nor have we received any data from the Irish site Ridge of Capard. There are five new sites in Spain (Niembro, Campisabalos, Cabo de Creus, Barcarrola and Zarra) and one in Russia (Danki). NO<sub>2</sub> data from three Belgium sites have also been included in this report, as well as data on base cations from seven Norwegian sites.

Table 1: List of EMEP monitoring stations in operation in 1999.

| Country            | Station codes |           | Station name    | Location |         | Height<br>above sea<br>(m) |
|--------------------|---------------|-----------|-----------------|----------|---------|----------------------------|
|                    | New           | Old       |                 | Lat.     | Long.   |                            |
| <b>Austria</b>     | AT0002R       | AT2,A2    | Illmitz         | 47°46'E  | 16°46'E | 117                        |
|                    | AT0004R       | AT4,A4    | St. Koloman     | 47°39'N  | 13°12'E | 851                        |
|                    | AT0005R       | AT5       | Vorhegg         | 46°40'N  | 12°58'E | 1020                       |
| <b>Belgium</b>     | BE0001R       | B1        | Offagne         | 49°52'N  | 5°12'E  | 430                        |
|                    | BE0032R       | B32       | Eupen           | 50°37'N  | 6°00'E  | 295                        |
|                    | BE0035R       | -         | Vezin           | 50°30'N  | 4°59'E  | 160                        |
| <b>Czech Rep.</b>  | CZ0001R       | CS1       | Svratouch       | 49°44'N  | 16°02'E | 737                        |
|                    | CZ0003R       | CS3       | Kosetice        | 49°35'N  | 15°05'E | 534                        |
| <b>Denmark</b>     | DK0003R       | DK3       | Tange           | 56°21'N  | 9°36'E  | 13                         |
|                    | DK0005R       | DK5       | Keldsnor        | 54°44'N  | 10°44'E | 9                          |
|                    | DK0008R       | DK8       | Anholt          | 56°43'N  | 11°31'E | 40                         |
| <b>Estonia</b>     | EE0009R       | EE9,SU9   | Lahemaa         | 59°30'N  | 25°54'E | 32                         |
|                    | EE0011R       | EE11,SU11 | Vilsandi        | 58°23'N  | 21°49'E | 6                          |
| <b>Finland</b>     | FI0004R       | FI4,SF4   | Ähtari          | 62°33'N  | 24°13'E | 162                        |
|                    | FI0009R       | FI9,SF9   | Utö             | 59°47'N  | 21°23'E | 7                          |
|                    | FI0017R       | FI17,SF17 | Virolahti II    | 60°31'N  | 27°41'E | 4                          |
|                    | FI0022R       | FI22,SF22 | Oulanka         | 66°19'N  | 29°24'E | 310                        |
|                    | FI0037R       | -         | Ähtari II       | 62°35'N  | 24°11'E | 180                        |
| <b>France</b>      | FR0003R       | FR3,F3    | La Crouzille    | 45°50'N  | 1°16'E  | 497                        |
|                    | FR0005R       | FR5,F5    | La Hague        | 49°37'N  | 1°50'W  | 133                        |
|                    | FR0008R       | FR8,F8    | Donon           | 48°30'N  | 7°08'E  | 775                        |
|                    | FR0009R       | FR9,F9    | Revin           | 49°54'N  | 4°38'E  | 390                        |
|                    | FR0010R       | FR10,F10  | Morvan          | 47°16'N  | 4°05'E  | 620                        |
|                    | FR0011R       | FR11,F11  | Bonnevaux       | 46°49'N  | 6°11'E  | 836                        |
|                    | FR0012R       | FR12,F12  | Iraty           | 43°02'N  | 1°05'W  | 1300                       |
|                    | FR0013R       | -         | Peyrusse Vielle | 47°22'N  | 0°06'E  | 236                        |
|                    | FR0014R       | -         | Montandon       | 47°11'N  | 6°30'E  | 746                        |
| <b>Germany</b>     | DE0001R       | DE1,D1    | Westerland      | 54°55'N  | 8°18'E  | 12                         |
|                    | DE0002R       | DE2,D2    | Langenbrügge    | 52°48'N  | 10°45'E | 74                         |
|                    | DE0003R       | DE3,D3    | Schauinsland    | 47°55'N  | 7°54'E  | 1205                       |
|                    | DE0004R       | DE4,D4    | Deuselbach      | 49°46'N  | 7°03'E  | 480                        |
|                    | DE0005R       | DE5,D5    | Brotjacklriegel | 48°49'N  | 13°13'E | 1016                       |
|                    | DE0007R       | DE7,D2    | Neuglobsow      | 53°09'N  | 13°02'E | 62                         |
|                    | DE0008R       | DE8,D8    | Schmücke        | 50°39'N  | 10°46'E | 937                        |
|                    | DE0009R       | DE9       | Zingst          | 54°26'N  | 12°44'E | 1                          |
| <b>Hungary</b>     | HU0002R       | HU2,H1    | K-pusztá        | 46°58'N  | 19°35'E | 125                        |
| <b>Iceland</b>     | IS0002R       | IS2       | Irafoss         | 64°05'N  | 21°01'W | 61                         |
| <b>Ireland</b>     | IE0002R       | IE2,IR2   | Turlough Hill   | 53°02'N  | 6°24'W  | 420                        |
|                    | IE0003R       | IE3       | The Burren      | 53°00'N  | 7°27'W  | 90                         |
| <b>Italy</b>       | IT0001R       | IT1,I1    | Montelibretti   | 42°06'N  | 12°38'E | 48                         |
|                    | IT0004R       | IT4,I4    | Ispra           | 45°48'N  | 8°38'E  | 209                        |
| <b>Latvia</b>      | LV0010R       | LV10,SU10 | Rucava          | 56°13'N  | 21°13'E | 18                         |
|                    | LV0016R       | LV16      | Zoseni          | 57°08'N  | 25°55'E | 183                        |
| <b>Lithuania</b>   | LT0015R       | LT15,SU15 | Preila          | 55°21'N  | 21°04'E | 5                          |
| <b>Netherlands</b> | NL0009R       | NL9       | Kollumerwaard   | 53°20'N  | 6°17'E  | 0                          |
|                    | NL0010R       | NL10      | Vreedepeel      | 51°32'N  | 5°51'E  | 28                         |

Table 1 cont.:

| Country                   | Station codes |           | Station name               | Location |         | Height<br>above sea<br>(m) |
|---------------------------|---------------|-----------|----------------------------|----------|---------|----------------------------|
|                           | New           | Old       |                            | Lat.     | Long.   |                            |
| <b>Norway</b>             | NO0001R       | NO1,N1    | Birkenes                   | 58°23'N  | 8°15'E  | 190                        |
|                           | NO0008R       | NO8,N8    | Skreådalen                 | 58°49'N  | 6°43'E  | 475                        |
|                           | NO0015R       | NO15,N15  | Tustervatn                 | 65°50'N  | 13°55'E | 439                        |
|                           | NO0039R       | NO39,N39  | Kårvatn                    | 62°47'N  | 8°53'E  | 210                        |
|                           | NO0041R       | NO41,N41  | Osen                       | 61°15'N  | 11°47'E | 440                        |
|                           | NO0042G       | NO42,N42  | Spitsbergen, Zeppelinfjell | 78°54'N  | 11°53'E | 474                        |
|                           | NO0055R       | NO55      | Karasjok                   | 69°28'N  | 25°13'E | 333                        |
| <b>Poland</b>             | PL0002R       | PL2       | Jarczew                    | 51°49'N  | 21°59'E | 180                        |
|                           | PL0003R       | PL3       | Snieszka                   | 50°44'N  | 15°44'E | 1604                       |
|                           | PL0004R       | PL4       | Leba                       | 54°45'N  | 17°32'E | 2                          |
|                           | PL0005R       | PL5       | Diabla Gora                | 54°09'N  | 22°04'E | 157                        |
| <b>Portugal</b>           | PT0001R       | PT1,P1    | Braganca                   | 41°49'N  | 6°46'W  | 691                        |
|                           | PT0003R       | PT3,P3    | V. d. Castelo              | 41°42'N  | 8°48'W  | 16                         |
|                           | PT0004R       | PT4,P4    | Monte Velho                | 38°05'N  | 8°48'W  | 43                         |
| <b>Russian Federation</b> | RU0001R       | RU1,SU1   | Janiskoski                 | 68°56'N  | 28°51'E | 118                        |
|                           | RU0013R       | RU13,SU13 | Pinega                     | 64°42'N  | 43°24'E | 28                         |
|                           | RU0016R       | RU16      | Shepeljovo                 | 59°58'N  | 29°07'E | 4                          |
|                           | RU0017R       | -         | Danki                      | 54°54'N  | 37°48'E | 150                        |
| <b>Slovenia</b>           | SI0008R       | SI8       | Iskrba                     | 45°34'N  | 14°52'E | 520                        |
| <b>Slovakia</b>           | SK0002R       | SK2,CS2   | Chopok                     | 48°56'N  | 19°35'E | 2008                       |
|                           | SK0004R       | SK4       | Stará Lesná                | 49°09'N  | 20°17'E | 808                        |
|                           | SK0005R       | SK5       | Liesek                     | 49°22'N  | 19°41'E | 892                        |
|                           | SK0006R       | SK6       | Starina                    | 49°03'N  | 22°16'E | 345                        |
| <b>Spain</b>              | ES0001R       | ES1,E1    | San Pablo                  | 39°33'N  | 4°21'W  | 917                        |
|                           | ES0003R       | ES3,E3    | Roquetas                   | 40°49'N  | 0°30'W  | 50                         |
|                           | ES0004R       | ES4,E4    | Logrono                    | 42°27'N  | 2°30'W  | 445                        |
|                           | ES0005R       | ES5       | Noya                       | 42°44'N  | 8°55'W  | 685                        |
|                           | ES0006R       | ES6       | Mahon                      | 39°52'N  | 4°19'E  | 78                         |
|                           | ES0007R       | ES7       | Viznar                     | 37°14'N  | 3°32'W  | 1265                       |
|                           | ES0008R       | -         | Niembro                    | 43°27'N  | 4°51'W  | 134                        |
|                           | ES0009R       | -         | Campisabolas               | 41°17'N  | 3°9'W   | 1360                       |
|                           | ES0010R       | -         | Cabo de Creus              | 42°19'N  | 3°19'E  | 23                         |
|                           | ES0011R       | -         | Barcarrola                 | 38°29'N  | 6°55'W  | 393                        |
|                           | ES0012R       | -         | Zarra                      | 39°5'N   | 1°6'W   | 885                        |
| <b>Sweden</b>             | SE0002R       | SE2,S2    | Rörvik                     | 57°25'N  | 11°56'E | 10                         |
|                           | SE0005R       | SE5,S5    | Bredkälen                  | 63°51'N  | 15°20'E | 404                        |
|                           | SE0008R       | SE8,S8    | Hoburg                     | 56°55'N  | 18°09'E | 58                         |
|                           | SE0011R       | SE11,S11  | Vavihill                   | 56°01'N  | 13°09'E | 172                        |
|                           | SE0012R       | SE12,S12  | Aspvreten                  | 58°48'N  | 17°23'E | 20                         |
| <b>Switzerland</b>        | CH0001G       | CH1       | Jungfraujoch               | 46°33'N  | 7°59'E  | 3573                       |
|                           | CH0002R       | CH2       | Payerne                    | 46°48'N  | 6°57'E  | 510                        |
|                           | CH0003R       | CH3,CH32  | Tänikon                    | 47°29'N  | 8°54'E  | 540                        |
|                           | CH0004R       | CH4       | Chaumont                   | 47°03'N  | 6°59'E  | 1130                       |
|                           | CH0005R       | CH5       | Rigi                       | 47°04'N  | 8°28'E  | 1030                       |
| <b>Turkey</b>             | TR0001R       | TR1       | Cubuk II                   | 40°30'N  | 33°00'E | 1169                       |
| <b>United Kingdom</b>     | GB0002R       | GB2,UK2   | Eskdalemuir                | 55°19'N  | 3°12'W  | 243                        |
|                           | GB0004R       | GB4,UK4   | Stoke Ferry                | 52°34'N  | 0°30'E  | 15                         |
|                           | GB0006R       | GB6,UK6   | Lough Navar                | 54°26'N  | 7°54'W  | 126                        |
|                           | GB0007R       | GB7,UK7   | Barcombe Mills             | 50°52'N  | 0°02'W  | 8                          |
|                           | GB0013R       | GB13,UK13 | Yarner Wood                | 50°36'N  | 3°43'W  | 119                        |
|                           | GB0014R       | GB14,UK14 | High Muffles               | 54°20'N  | 0°48'W  | 267                        |
|                           | GB0015R       | GB15,UK15 | Strath Vaich Dam           | 57°44'N  | 4°46'W  | 270                        |
|                           | GB0016R       | GB16,UK16 | Glen Dye                   | 56°58'N  | 2°25'W  | 85                         |

Table 1 cont.:

| Country              | Station codes |      | Station name     | Location |         | Height above sea (m) |
|----------------------|---------------|------|------------------|----------|---------|----------------------|
|                      | New           | Old  |                  | Lat.     | Long.   |                      |
| United Kingdom cont. | GB0036R       | GB36 | Harwell          | 51°34'N  | 1°18'W  | 137                  |
|                      | GB0037R       | GB37 | Ladybower        | 53°23'N  | 1°45'W  | 420                  |
|                      | GB0038R       | GB38 | Lullington Heath | 50°47'N  | 0°10'W  | 120                  |
|                      | GB0043R       | GB43 | Narberth         | 51°14'N  | 4°42'W  | 160                  |
|                      | GB0045R       | GB45 | Wicken Fen       | 52°18'N  | 0°18'W  | 5                    |
| Yugoslavia           | YU0005R       | YU5  | Kamenicki vis    | 43°24'N  | 21°57'E | 813                  |
|                      | YU0008R       | YU8  | Zabljak          | 43°09'N  | 19°08'E | 1450                 |

### 3. Site codes

The site codes used in this report are the codes used for data submission and storage in the EMEP database. The codes consist of the two-letter ISO code for the countries, a four-digit number and a letter indicating the type of station, regional (R) or global (G). The station numbers have been retained from previous codes used.

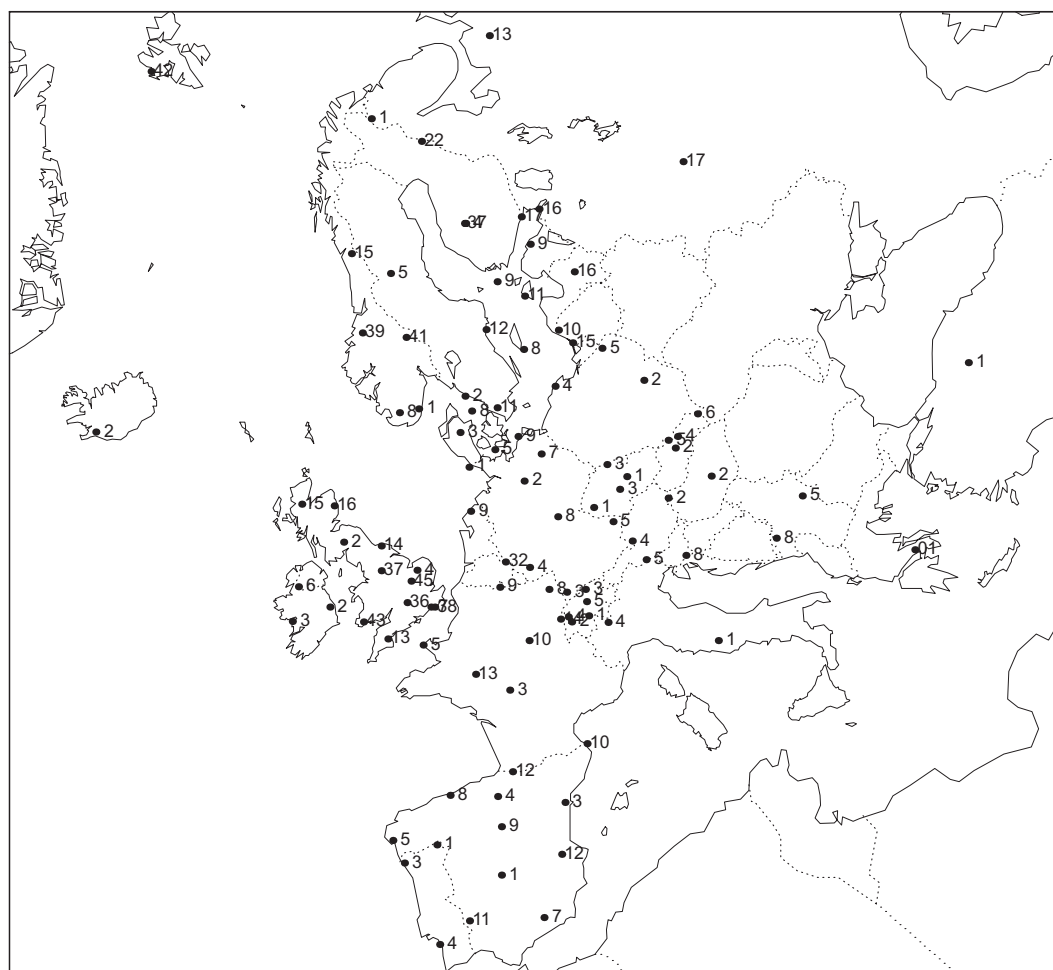


Figure 1: Location of the EMEP monitoring stations in operation in 1999. Sites with ozone/VOC measurements only are not included.

#### 4. The measurement programme during 1999

EMEP's measurement programme during 1999 is presented in Table 2. Many sites had however, even during 1999, a less extensive measurement programme, as can be seen from the data tables in this report. Most sites measure air as well as precipitation components. However, some sites perform either the one or the other type of measurements.

Table 2: EMEP's measurement programme 1999.

|                 | Components                                                                                                                                                                                                        | Measurement period  | Measurement frequency |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| Gas             | SO <sub>2</sub> , NO <sub>2</sub>                                                                                                                                                                                 | 24 hours            | daily                 |
|                 | O <sub>3</sub>                                                                                                                                                                                                    | hourly means stored | continuously          |
|                 | Light hydrocarbons C <sub>2</sub> -C <sub>7</sub>                                                                                                                                                                 | 10-15 mins          | twice weekly          |
|                 | Ketones and aldehydes (VOC)                                                                                                                                                                                       | 8 hours             | twice weekly          |
|                 | Hg                                                                                                                                                                                                                | 24 hours            | weekly                |
| Particles       | SO <sub>4</sub> <sup>2-</sup>                                                                                                                                                                                     | 24 hours            | daily                 |
|                 | Cd, Pb (first priority), Cu, Zn, As, Cr, Ni (second priority)                                                                                                                                                     | weekly              | weekly                |
| Gas + particles | HNO <sub>3</sub> (g)+NO <sub>3</sub> <sup>-</sup> (p), NH <sub>3</sub> (g)+NH <sub>4</sub> <sup>+</sup> (p)                                                                                                       | 24 hours            | daily                 |
|                 | POPs (PAH, PCB, HCB, chlordane, lindane, α-HCH, DDT/DDE)                                                                                                                                                          | to be decided       | to be decided         |
| Precipitation   | Amount, SO <sub>4</sub> <sup>2-</sup> , NO <sub>3</sub> <sup>-</sup> , Cl <sup>-</sup> , pH, NH <sub>4</sub> <sup>+</sup> , Na <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , K <sup>+</sup> , conductivity | 24 hours/weekly     | daily/weekly          |
|                 | Hg, Cd, Pb (first priority), Cu, Zn, As, Cr, Ni (second priority)                                                                                                                                                 | weekly              | weekly                |
|                 | POPs (PAH, PCB, HCB, chlordane, lindane, α-HCH, DDT/DDE)                                                                                                                                                          | to be decided       | to be decided         |

Measurements of VOC, heavy metals and POPs are made at a small number of sites only.

An evaluation of the VOC measurement programme within EMEP has been published earlier (Solberg et al., 1995). The VOC data from 1999 was reported separately by Solberg et al. (2001), while ozone data from 1999 was reported by Hjellbrekke (2001). Heavy metals and POPs were reported by Berg and Hjellbrekke (2001).

A list of data reports from EMEP/CCC can be found in Annex 6.

## **5. Sampling and analytical methods**

The recommended procedures for sampling and analysis of precipitation and air are described in the EMEP Manual for sampling and chemical analysis. The manual has been updated and sent out in 1996 (Hanssen et al., 1995). A version is also available on the WWW at <http://www.nilu.no/projects/ccc/manual/>. The methods used by the participating countries are given in Annex 1.

Generally, concentrations of gaseous nitric acid and ammonia, and of nitrate and ammonium in aerosol particles are determined by filter pack sampling. However, sampling artefacts due to the volatile nature of ammonium nitrate, and the possible interaction with strong acids, e.g. sulphuric acid, make separation of gases and particles by simple aerosol filters unreliable. Therefore only the sums of nitric acid and nitrate, and of ammonium and ammonia are unbiased.

## **6. Laboratory intercomparison**

During 1999 the 17th laboratory intercomparison of analytical methods was carried out. As usual most of the laboratories report acceptable data, but there are still some outliers. The intercomparison results are presented in Hanssen (2001).

## **7. Calculation of excess sulphate in precipitation**

The sulphate in precipitation is stored in the database as reported, i.e. total sulphate, and as corrected, non-marine sulphate, i.e. total sulphate minus sulphate originating from sea-salt particles.

When the sulphate concentrations originating from sea-salt are larger than the total sulphate, and the corrected sulphate concentrations consequently become less than zero, negative concentrations have been stored in the data base and have been used to calculate averages in the report in order to avoid bias in the aggregates. Negative concentrations are mainly caused by random errors in the data and occur when non sea-salt sulphate concentrations are low compared to total sulphate.

CCC has since 1994 used a routine worked out by the Canadian Air and Precipitation Monitoring Network (CAPMoN) for calculation of the marine contribution to sulphate in precipitation. The routine has been adopted by the WMO GAW. A series of EMEP's sites will also report data to WMO, and common routines will necessarily fill the data bases with identical data. This is consequently a step in a harmonisation process between EMEP and WMO GAW. Excess sulphate data as calculated with the old routine are available from the CCC as a continuation of the data series upon request.

## **8. Data flagged in this report**

EMEP's data quality objectives (DQO, Annex 7) were set to provide sufficiently accurate data for EMEP's needs. They have been discussed and accepted at the Steering Body in 1996, and the participating laboratories have consequently to provide data meeting the DQO in order to have them accepted by EMEP.

The Parties to the Convention are obliged to make this goal attainable to their own EMEP laboratories. The laboratories must therefore be sufficiently funded to do their measurements in accordance with recommended methods and instrumentation in field and in laboratory. Although a harmonisation and standardisation of methods is strongly needed, methods equivalent to the recommended ones may be acceptable if the participant has demonstrated that the data meet the DQO. Secondly, and of greatest importance is to have sufficient funding to be able to implement quality assurance procedures good enough to provide data meeting the DQO.

The CCC has in collaboration with MSC-W performed an evaluation of the methods and data quality of precipitation and air measurements (Aas et al., 2001). The intention with this evaluation is to give an estimate of the expected errors in the annual arithmetic averages from 1999.

The averages have been classified in four quality groups:

- A: expected error 10% or better
- B: expected error 25% or better
- C: expected error 30% or better
- D: expected error worse than 30%
- U: unknown/not documented

The sources used in the evaluation are:

- Results from the intercomparisons 17 and 18 from 1999 and 2000 (Hanssen, 2001; Uggerud, 2001).
- Results from field comparisons (Schaug et al., 1998; Aas et al., 1999, 2000, 2001).
- Calculations on ion balances.

The results from this evaluation have been used to flag most of the data presented in this report.

## **9. Monthly mean concentrations**

The arithmetic mean values of gases and components in aerosols have been given in Annex 2. As a measure of data completeness the per cent days with results for each component every month has also been printed in Annex 2.

The precipitation data are presented in Annex 3. The monthly mean values given are the precipitation weighted arithmetic averages. The per cent analysed for a component is the per cent of the total precipitation which have been analysed for the component during a specified period, and the per cent analysed is used as a measure of completeness. Precipitation amounts from the samplers are once in a while lost due to mistakes and errors and can not in such cases easily be estimated since EMEP do not have precipitation amounts from co-located precipitation gauges. If the precipitation amount is missing a day with amounts of rain or snow

of importance, then the total precipitation amount for a period including this day will be too low, and consequently the corresponding completeness for all components too high. As a measure of completeness of precipitation amounts, the number of days with precipitation data has been taken.

## 10. Seasonal summaries of the data

The seasonal summaries of the air components have been presented in Annex 4, and the summaries of the precipitation data in Annex 5. The precipitation component summaries contain the precipitation weighted arithmetic mean value, the minimum and maximum daily concentrations, the wet deposition, per cent of total precipitation amount analysed for a specific component (completeness for precipitation data), the number of data below the detection limit and total number of days with results, and a sampling flag which gives information about deviations from the EMEP sampling procedures.

The wet depositions have been obtained by multiplying the weighted mean concentration by the total amount of precipitation in the period. The concentrations for days with missing precipitation data have consequently been assumed to be equal to the weighted average of the period.

Concentrations less than zero may exist in the database for sulphate in precipitation corrected for sea-salt. This occurs whenever the sea-salt contribution is larger than the total sulphate concentration, and it is caused by random errors in the results. The negative values have been included in the estimation of the weighted arithmetic mean values.

For air components the arithmetic mean and the geometric mean have been computed together with their standard deviations. The definitions are given on the next three pages. The geometric standard deviation is a dimensionless factor. If the data come from a random sample of independent data in a normal distribution, about 95% of the data will lie between

$$\bar{c}_a - 2sd_a \text{ and } \bar{c}_a + 2sd_a$$

and between

$$\frac{\bar{c}_g}{sd_g^2} \text{ and } \bar{c}_g \cdot sd_g^2$$

if the data come from a lognormal distribution. The minimum, maximum, 5 and 95 percentiles are also presented in Annex 4. As a measure of the completeness of the dataset, the percentage of samples analysed in the period has been printed.

In the computations of mean values and other statistics, the concentrations below the detection limit have been set equal to one half of the actual limit. An overview of the statistics and definitions is given below.

W.mean  $\hat{c}$  is the precipitation weighted arithmetic mean concentration used for precipitation components:

$$\hat{c} = \frac{I}{\sum_i p_i} \cdot \sum_i c_i \cdot p_i$$

where  $p_i$  is precipitation amount day  $i$  with the measured concentration  $c_i$  of a specific component.

Arit mean  $\overline{c_a}$  is the arithmetic mean value used for air components only, and  $N$  is number of days with data:

$$\overline{c_a} = \frac{I}{N} \sum_i c_i$$

Arit sd  $sd_a$  is the arithmetic standard deviation from the arithmetic mean value. It is computed for air components only:

$$sd_a = \left( \frac{\sum_i (c_i - \overline{c_a})^2}{N - I} \right)^{\frac{1}{2}}$$

Geom mean  $\overline{c_g}$  is the geometric mean value used for air components only, and it is computed from the arithmetic mean of  $\ln c$ :

$$\overline{\ln c} = \frac{1}{N} \cdot \sum_i \ln c_i$$

$$\overline{c_g} = \exp(\overline{\ln c})$$

Geom sd  $sd_g$  is the geometric standard deviation from the geometric mean value. It is computed for air components only, and it is based on the standard deviation of  $\ln c$ :

$$sd_{\ln c} = \left( \frac{\sum_i (\ln c_i - \overline{\ln c})^2}{N - I} \right)^{\frac{1}{2}}$$

$$sd_g = \exp(sd_{\ln c})$$

Min is the minimum value reported for a specific component, and it is printed both for precipitation and air components.

|           |                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5%        | is the 5 percentile computed from the histogram of the daily results. The data have been divided into 30 classes of equal size with the addition of two extreme classes. The 5 percentile has been computed by linear interpolation of the two closest class marks. The percentile has been computed for air components only. |
| 50%       | is the 50 percentile, defined as above and computed for air data only.                                                                                                                                                                                                                                                        |
| 95%       | is the 95 percentile, defined as above and computed for air data only.                                                                                                                                                                                                                                                        |
| Max       | is the maximum value reported for a specific component, and it is given for precipitation and air components.                                                                                                                                                                                                                 |
| Dep       | is the wet deposition of a specific precipitation component. The deposition is the product of the total precipitation amount measured and the weighted arithmetic mean of a component measured at a site.                                                                                                                     |
| % anal    | for precipitation components this is the percent of the total precipitation reported analysed for a specific component, and for air components based on the number of days with data.                                                                                                                                         |
| Num bel   | is the number of data below the detection limit (not used for precipitation amount).                                                                                                                                                                                                                                          |
| Num day   | is the number of days with measurements for a specific component.                                                                                                                                                                                                                                                             |
| QA flag   | is the quality flag described in section 8.                                                                                                                                                                                                                                                                                   |
| Samp flag | is a one character code which gives information about routine-wise deviation from the EMEP sampling length and frequency. The code used in this report is:<br><br>W:     weekly sampling                                                                                                                                      |

The units used for the results in this report are given in Table 3 and Table 4.

Table 3: Units used for precipitation components.

| Precipitation components      | Units for W. mean, Min., Max. | Units for depositions             |
|-------------------------------|-------------------------------|-----------------------------------|
| Amount                        | mm                            | mm                                |
| SO <sub>4</sub> <sup>2-</sup> | mg S/l                        | mg S/m <sup>2</sup>               |
| NO <sub>3</sub> <sup>-</sup>  | mg N/l                        | mg N/m <sup>2</sup>               |
| Cl <sup>-</sup>               | mg Cl/l                       | mg Cl/m <sup>2</sup>              |
| NH <sub>4</sub> <sup>+</sup>  | mg N/l                        | mg N/m <sup>2</sup>               |
| H <sup>+</sup>                | µe H <sup>+</sup> /l          | µe H <sup>+</sup> /m <sup>2</sup> |
| pH                            | pH-units                      | µe H <sup>+</sup> /m <sup>2</sup> |
| Na <sup>+</sup>               | mg Na/l                       | mg Na/m <sup>2</sup>              |
| Mg <sup>2+</sup>              | mg Mg/l                       | mg Mg/m <sup>2</sup>              |
| K <sup>+</sup>                | mg K/l                        | mg K/m <sup>2</sup>               |
| Ca <sup>2+</sup>              | mg Ca/l                       | mg Ca/m <sup>2</sup>              |

Table 4: Units used for air components.

| Air components                                  | Units for arithmetic and geometric mean values, arithmetic standard deviations, Min., Max., percentiles. |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| SO <sub>2</sub>                                 | µg S/m <sup>3</sup>                                                                                      |
| NO <sub>2</sub>                                 | µg N/m <sup>3</sup>                                                                                      |
| HNO <sub>3</sub>                                | µg N/m <sup>3</sup>                                                                                      |
| NH <sub>3</sub>                                 | µg N/m <sup>3</sup>                                                                                      |
| SO <sub>4</sub> <sup>2-</sup>                   | µg S/m <sup>3</sup>                                                                                      |
| NO <sub>3</sub> <sup>-</sup>                    | µg N/m <sup>3</sup>                                                                                      |
| NH <sub>4</sub> <sup>+</sup>                    | µg N/m <sup>3</sup>                                                                                      |
| H <sup>+</sup>                                  | Ne H <sup>+</sup> /m <sup>3</sup>                                                                        |
| SPM                                             | µg/m <sup>3</sup>                                                                                        |
| HNO <sub>3</sub> + NO <sub>3</sub> <sup>-</sup> | µg N/m <sup>3</sup>                                                                                      |
| NH <sub>3</sub> + NH <sub>4</sub> <sup>+</sup>  | µg N/m <sup>3</sup>                                                                                      |
| Ca <sup>++</sup>                                | µg/m <sup>3</sup>                                                                                        |
| Cl <sup>-</sup>                                 | µg/m <sup>3</sup>                                                                                        |
| Mg <sup>++</sup>                                | µg/m <sup>3</sup>                                                                                        |
| K <sup>+</sup>                                  | µg/m <sup>3</sup>                                                                                        |
| Na <sup>+</sup>                                 | µg/m <sup>3</sup>                                                                                        |

The start hours for the sample collections for the period covered by this report are given in Table 5.

Table 5: Start hours for sampling (GMT) in 1999.

| Site | Prec. | Air | Site | Prec. | Air   |
|------|-------|-----|------|-------|-------|
| AT 2 | 08    | 00  | HR 2 | 06    | 06    |
| AT 3 | 08    | 00  | HR 4 | 06    | 06    |
| AT 4 | 08    | 00  |      |       |       |
|      |       |     | HU 2 | 09    | 09    |
| CH 1 | -     | 08  |      |       |       |
| CH 2 | 08    | 08  | IE 1 | 10    | 10    |
| CH 3 | -     | 08  | IE 2 | 00    | 00    |
| CH 4 | -     | 08  |      |       |       |
| CH 5 | -     | 08  | IS 2 | 09    | 09    |
|      |       |     |      |       |       |
| CZ 1 | 06    | 06  | IT 1 | 09    | 00    |
| CZ 3 | 06    | 06  | IT 4 | 10    | 10    |
|      |       |     |      |       |       |
| DE 1 | 07    | 00  | LT15 | 09    | 09    |
| DE 2 | 07    | 00  |      |       |       |
| DE 3 | 07    | 00  | LV10 | 09    | 09    |
| DE 4 | 07    | 00  | LV16 | 09    | 09    |
| DE 5 | 07    | 00  |      |       |       |
| DE 7 | 07    | 00  | NL 9 | 09    | 09    |
| DE 8 | 07    | 00  | NL10 | 09    | 09    |
| DE 9 | 07    | 00  | NL11 | 10    | 10    |
| DE12 | -     | 00  |      |       |       |
| DE14 | -     | 00  | NO 1 | 07    | 07    |
| DE17 | -     | 00  | NO 8 | 07    | 07    |
| DE18 | -     | 00  | NO15 | 07    | 07    |
| DE19 | -     | 00  | NO30 | 07    | 07    |
|      |       |     | NO39 | 07    | 07    |
| DK 3 | 07    | 07  | NO41 | 07    | 07    |
| DK 5 | 07    | 07  | NO42 | -     | 07    |
| DK 8 | 07    | 07  |      |       |       |
|      |       |     | PL 2 | 06    | 06    |
| ES 1 | 07    | 07  | PL 3 | 06    | 06    |
| ES 2 | 07    | 07  | PL 4 | 06    | 06    |
| ES 3 | 07    | 07  | PL 5 | 06    | 06    |
| ES 4 | 07    | 07  |      |       |       |
| ES 5 | 07    | 07  | PT 1 | 09    | -     |
| ES 6 | 07    | 07  | PT 3 | 09    | -     |
|      |       |     | PT 4 | 09    | 09    |
|      |       |     |      |       |       |
| FI 4 | 06    | 06  | RU 1 | (1)   | (1)   |
| FI 9 | 06    | 06  | RU13 | (1)   | (1)   |
| FI17 | 06    | 06  | RU14 | (1)   | (1)   |
| FI22 | 06    | 06  | RU16 | (1)   | (1)   |
|      |       |     |      |       |       |
| FR 3 | 09    | 09  | SE 2 | 06    | 06    |
| FR 5 | 09    | 09  | SE 5 | 06    | 06    |
| FR 8 | 09    | 09  | SE 8 | -     | 06    |
| FR 9 | 09    | 09  | SE11 | 06    | 06    |
| FR10 | 09    | 09  | SE12 | 06    | 06    |
| FR11 | 09    | 09  | SE13 | -     | 06    |
|      |       |     |      |       |       |
| FR12 | 09    | 09  | SI8  | 08:30 | 08:30 |
|      |       |     |      |       |       |
| GB 2 | 07    | 07  | SK 2 | 07    | 07    |
| GB 4 | -     | 07  | SK 4 | 07    | 07    |
| GB 6 | 07    | 07  | SK 5 | 07    | 07    |
| GB 7 | -     | 07  | SK 6 | 07    | 07    |
| GB13 | 07    | 07  |      |       |       |
| GB14 | 07    | 07  | TR 1 | 00    | 00    |
| GB15 | 07    | 70  |      |       |       |
| GB16 | -     | 07  | YU 5 | 06    | 06    |
|      |       |     | YU 8 | 06    | 06    |
| GR1  | -     | 00  |      |       |       |

(1) : Not reported

## 11. Update

**The data compiled in this report represent the best data available at present. If any further errors are detected, the data will be corrected in the database.**

It is important that users make certain that they have access to the most recent version of the database. For the data presented here the latest alteration was 17 July, 2001.

Scientific use of the EMEP data should be based on fresh copies of the data. Copies can be requested from the CCC (e-mail: [anne-gunn.hjellbrekke@nilu.no](mailto:anne-gunn.hjellbrekke@nilu.no)). Information about the EMEP network and measurement data can also be found at <http://www.emep.int> and <http://www.nilu.no/projects/ccc/index.html>

## 12. References

A list of data reports from EMEP/CCC can be found in Annex 6.

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### **13. Acknowledgements**

A large number of anonymous co-workers in participating countries have been involved in the many steps of collection of EMEP's air and precipitation data. A list of participating institutes can be seen below. The staff at CCC wishes to express their gratitude and appreciation for continued good co-operation and efforts. Closer at home, and of equal significance to the presentation of our work, the secretarial work, and far beyond, has been performed by Ms. Kristine Aasarød. Rita Larsen has been very helpful with data flow and data base maintenance.

## 14. List of participating institutions

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Austria                                | Umweltbundesamt                                                                        |
| Belgium                                | CELINE - IRCEL                                                                         |
| Commission of the European Communities | Joint Research Center. Ispra Establishment                                             |
| Croatia                                | Meteorological and Hydrological Service of Croatia                                     |
| Czech Republic                         | Czech Hydrometeorological Institute                                                    |
| Denmark                                | National Environmental Research Institute                                              |
| Finland                                | Finnish Meteorological Institute                                                       |
| France                                 | I' Ecole des Mines de Douai<br>Laboratories Wolff                                      |
| Germany                                | Umweltbundesamt                                                                        |
| Greece                                 | Ministry of Environmental Physical Planning and Public Works                           |
| Hungary                                | Institute for Atmospheric Physics, Dep. for Air Chemistry                              |
| Iceland                                | The Icelandic Meteorological Office                                                    |
| Ireland                                | Meteorological Service H.Q.<br>Electricity Supply Board (ESB)                          |
| Italy                                  | C.N.R. Istituto Inquinamento Atmosferico                                               |
| Latvia                                 | Latvian Hydrometeorological Agency                                                     |
| Lithuania                              | Institute of Physics                                                                   |
| Netherlands                            | National Institute for Public Health and Environmental Protection (RIVM)               |
| Norway                                 | Norwegian Institute for Air Research (NILU)                                            |
| Poland                                 | Institute of Meteorology and Water Management<br>Institute of Environmental Protection |
| Portugal                               | Ministério do ambiente e recursos naturais                                             |
| Russian Federation                     | Institute of Global Climate and Ecology                                                |
| Slovakia                               | Slovak Hydrometeorological Institute                                                   |
| Slovenia                               | Hydrometeorological Institute of Slovenia                                              |
| Spain                                  | Dirección General de Calidad y Evaluación Ambiental                                    |
| Sweden                                 | Swedish Environmental Research Institute (IVL)                                         |
| Switzerland                            | Swiss Federal Laboratory of Testing Materials and Research (EMPA)                      |
| Turkey                                 | Refik Saydam Centre of Hygiene                                                         |
| United Kingdom                         | AEA Technology                                                                         |
| Yugoslavia                             | Federal Hydrometeorological Institute                                                  |



## **Annex 1**

### **Overview of sampling and analytical methods 1999**



This Annex gives an overview of the sampling and analytical methods in use in the participating countries during 1999. The information given is mostly based on answered questionnaires issued by the CCC.

Table 1.1 shows the sampling techniques used for precipitation and aerosol components in the different countries. Table 1.2 shows the corresponding information for gases and Table 1.3 information on sampling for the sum of aerosols and gases.

Table 1.4 shows the analytical methods used for components in aerosols, for gases and for the sum of aerosols and gases. Several combinations of reagents can be used in the Griess method for measurements of nitrogen dioxide and in the data reports different combinations have been given different names, e.g. NEDA and ANSA in the past. Due to the increasing number of different reagent combinations, no distinction was made in 1999 between the different procedure which have all been referenced to as Griess method in Tables 1.4 and 1.7.

Table 1.5 shows the methods used for components in precipitation.

Tables 1.6 to 1.15 give the code numbers for the methods used in Tables 1.4 and 1.5.

*Table 1.1: Techniques for sampling of precipitation and for aerosols in 1999.*

| Country        | Precipitation     | Particulate sulphate                                                                        | Particulate ammonium                                     | Particulate nitrate |
|----------------|-------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------|
| Austria        | Wet only          | Schleicher und Schüll TE 36 Membranfilter 0.45 µm, 47 mm diameter, 2.7 Nm <sup>3</sup> /day | -                                                        | -                   |
| Croatia        | Bulk              | -                                                                                           | -                                                        | -                   |
| Czech Republic | Bulk and wet-only | Teflon filter Gelman, pore size 1 µm 40 m <sup>3</sup> /day                                 | Schleicher and Schüll TE36 0.45 µm 5 m <sup>3</sup> /day | As for ammonium     |
| Denmark        | Wet-only          | Mixed cellulose ester filter Millipore RAWP 1.2 µm 58 m <sup>3</sup> /day                   | -                                                        | -                   |
| Estonia        | Bulk              | Whatman 40 filter 4-5 m <sup>3</sup> /day at Lahemaa                                        | -                                                        | -                   |
| Finland        | Bulk              | Whatman 40 filter 24 m <sup>3</sup> /day                                                    | -                                                        | -                   |
| France         | Wet-only          | Whatman 40 filter 2.5 m <sup>3</sup> /day                                                   | -                                                        | -                   |

Table 1.1 cont.

| Country      | Precipitation                                 | Particulate sulphate                                                                                                             | Particulate ammonium                                                  | Particulate nitrate                          |
|--------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|
| Germany      | Bulk                                          | Schleicher & Schüll 589/2L filter<br>1.0 m <sup>3</sup> /day                                                                     | -                                                                     | -                                            |
| Greece       | Wet only                                      | Whatman 41 filter<br>1,1 m <sup>3</sup> /day                                                                                     | -                                                                     | As for particulate sulphate                  |
| Hungary      | Wet only                                      | Teflon filter,<br>Schleicher & Schüll,<br>1 µm, 25 m <sup>3</sup> /day                                                           | As for particulate sulphate                                           | As for particulate sulphate                  |
| Iceland      | Bulk                                          | Whatman 40 filter<br>30 m <sup>3</sup> /day                                                                                      | -                                                                     | -                                            |
| Ireland      | Bulk (IE1)<br>Wet only (IE2, IE3, IE4)        | Whatman 40 filter<br>20-25 m <sup>3</sup> /day (IE1)<br>Gelman GN-6<br>Metricel filter<br>20 m <sup>3</sup> /day (IE2, IE3, IE4) | -                                                                     | -                                            |
| Italy        | Wet only                                      | Teflon filter Gelman<br>Zeflour 1 µ.<br>17 m <sup>3</sup> /day                                                                   | Teflon filter (as for sulphate) + phosphorous acid impregnated filter | As for sulphate + Nylasorb filter            |
| Latvia       | Bulk (LV16)<br>Wet only (LV10 from July 1996) | Whatman 41 filter<br>14-20 m <sup>3</sup> /day                                                                                   | Whatman 41 filter<br>14-20 m <sup>3</sup> /day                        | As for particulate sulphate                  |
| Lithuania    | Wet only                                      | Whatman 40 filter, 24 m <sup>3</sup> /day                                                                                        | As for particulate sulphate                                           | As for particulate sulphate                  |
| Netherlands  | Wet only                                      | Whatman 42 filter<br>2.5 m <sup>3</sup> /day<br>Filter mounted behind denuder                                                    | As for particulate sulphate                                           | As for particulate sulphate.                 |
| Norway       | Bulk<br>NILU-type                             | Teflon filter,<br>Gelman Zefluor 2 µm<br>25 m <sup>3</sup> /day                                                                  | -                                                                     | -                                            |
| Poland 2,3,4 | Bulk                                          | Whatman 40 filter<br>PL2,3,4:3.5-4 m <sup>3</sup> /day                                                                           | As for particulate sulphate                                           | As for particulate sulphate                  |
| PL5          | Bulk                                          | PL 5: Teflon filter<br>Gelman Zefluor 2 µm<br>16 m <sup>3</sup> /day                                                             |                                                                       |                                              |
| Portugal     | Bulk                                          | Whatman 40 filter ,<br>2.5-4.2 m <sup>3</sup> /day                                                                               | -                                                                     | -                                            |
| Russian Fed. | Bulk                                          | Whatman 40 filter<br>10-15 m <sup>3</sup> /day                                                                                   | As for particulate sulphate                                           | As for particulate sulphate                  |
| Slovakia     | Wet only                                      | Whatman 40 filter<br>6-8 m <sup>3</sup> /day                                                                                     | -                                                                     | Whatman 40 filter<br>6-8 m <sup>3</sup> /day |

Table 1.1 cont.

| Country        | Precipitation       | Particulate sulphate                                                                             | Particulate ammonium          | Particulate nitrate           |
|----------------|---------------------|--------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|
| Slovenia       | -                   | Teflon filter, Gelman Zefluor 2 µm, 18-24 m <sup>3</sup> /day                                    | -                             | -                             |
| Spain          | Wet only            | Whatman GF/A filter 770 m <sup>3</sup> /day                                                      | As for particulate sulphate   | -                             |
| Sweden         | Wet only            | Teflon filter Gelman Zefluor 2 µm 20 m <sup>3</sup> /day                                         | -                             | -                             |
| Switzerland    | Wet only            | Schleicher & Schüll filter 589/4, 3.6 m <sup>3</sup> /day (CH2,5), 4.1 m <sup>3</sup> /day (CH1) | -                             | -                             |
| Turkey         | Wet only            | Teflon filter, Gelman Zefluor 2 µm 27 m <sup>3</sup> /day                                        | See sum of gases and aerosols | See sum of gases and aerosols |
| United Kingdom | Wet only. collector | Whatman 41 filter 1.1 m <sup>3</sup> /day                                                        | -                             | -                             |
| Yugoslavia     | Bulk                | -                                                                                                | -                             | -                             |
| CEC (IT 4)     | Wet only            | Cellulose acetate 0.8 µm filter 12 m <sup>3</sup> day                                            | As for particulate sulphate   | As for particulate sulphate   |

Table 1.2: Techniques for sampling of gases in 1999.

| Country        | Sulphur dioxide                                                                                                   | Nitrogen dioxide                                                                                                | Ammonia                                                  | Nitric acid                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|
| Austria        | Instrumental: DOAS                                                                                                | DOAS                                                                                                            | -                                                        | -                                                           |
| Croatia        | Absorbing solution TCM, 1.6-2.5 m <sup>3</sup> /day                                                               | Absorbing solution Trietanolamin 1.6-2.5 m <sup>3</sup> /day                                                    | -                                                        | -                                                           |
| Czech Republic | KOH-impregnated Whatman 41 filter 6-8 m <sup>3</sup> /day                                                         | Absorbing solution NaOH and guajacol 0.72 m <sup>3</sup> /day                                                   | Oxalic acid imp. Whatman 41 filter 5 m <sup>3</sup> /day | NaCl-impregnated Whatman 41 filter 0.72 m <sup>3</sup> /day |
| Denmark        | NaF-impregnated + KOH-impregnated Whatman 41 filters 58 m <sup>3</sup> /day                                       | KI-method (glass sinter) 0,7 m <sup>3</sup> /day                                                                | -                                                        | -                                                           |
| Estonia        | NaOH-impregnated Whatman 40 filter 4-5 m <sup>3</sup> /day at Lahemaa<br>Instrumental UV-fluorescence at Vilsandi | Absorbing tubes KI solution, 0.3 m <sup>3</sup> /day at Lahemaa;<br>Instrumental: chemiluminescence at Vilsandi | -                                                        | -                                                           |

Table 1.2 cont.

| Country     | Sulphur dioxide                                                                             | Nitrogen dioxide                                                                          | Ammonia                                                                                                                                                        | Nitric acid                                                      |
|-------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Finland     | NaOH-impregnated Whatman 40 filter 24 m <sup>3</sup> /day                                   | Instrumental: chemiluminescence                                                           | -                                                                                                                                                              | -                                                                |
| France      | Absorbing solution H <sub>2</sub> O <sub>2</sub> , 2.5 m <sup>3</sup> /day                  | -                                                                                         | -                                                                                                                                                              | -                                                                |
| Germany     | Absorbing solution TCM, 1.0 m <sup>3</sup> /day                                             | Absorbing solution Saltzman, 1 m <sup>3</sup> /day                                        | -                                                                                                                                                              | -                                                                |
| Greece      | Absorbing solution H <sub>2</sub> O <sub>2</sub> , 1.1 m <sup>3</sup> /day                  | Absorbing solution TGS, 1.1 m <sup>3</sup> /day                                           | -                                                                                                                                                              | -                                                                |
| Hungary     | KOH-impregnated Whatman 40 filter, 25 m <sup>3</sup> /day                                   | Iodide method (impregnated glass sinter) 0.7 m <sup>3</sup> /day                          | Oxalic acid coated diffusion tube, 4 m <sup>3</sup> /day until June 30, 1999. From July 1, 1999 alkaline impregnated Whatman 40 filter, 25 m <sup>3</sup> /day | Teflon filter, Schleicher & Schüll, 1 µm, 25 m <sup>3</sup> /day |
| Iceland     | KOH-impregnated Whatman 40 filter 30 m <sup>3</sup> /day                                    | -                                                                                         | -                                                                                                                                                              | -                                                                |
| Ireland     | KOH-impregnated Whatman 40 filter 20-25 m <sup>3</sup> /day                                 | Absorbing solution TGS 1.5-1.6 m <sup>3</sup> /day                                        | -                                                                                                                                                              | -                                                                |
| Italy       | Diffusion tubes NaCl and Na <sub>2</sub> CO <sub>3</sub> + glycerine 17 m <sup>3</sup> /day | Instrumental: Chemiluminescence                                                           | Diffusion tubes coated with phosphorous acid 17 m <sup>3</sup> /day                                                                                            | Diffusion tubes NaCl 17 m <sup>3</sup> /day                      |
| Latvia      | KOH-impregnated Whatman 41 filter 14-20 m <sup>3</sup> /day                                 | Absorbing KI solution in absorbing tubes with glass granules, 0.2-0.4 m <sup>3</sup> /day | Whatman 41 filter 14-20 m <sup>3</sup> /day                                                                                                                    | As for sulphur dioxide                                           |
| Lithuania   | KOH-impregnated Whatman 40 filter, 24 m <sup>3</sup> /day                                   | Absorbing solution KI; 0.72 m <sup>3</sup> /day                                           | -                                                                                                                                                              | -                                                                |
| Netherlands | Instrumental: UV-fluorescence                                                               | Instrumental: Chemiluminescence                                                           | Absorption in NaHSO <sub>4</sub> , membrane separation, conductivity measurement                                                                               | -                                                                |
| Norway      | KOH-impregnated Whatman 40 filter 25 m <sup>3</sup> /day                                    | Iodide method (impregnated glass sinter) 0.7 m <sup>3</sup> /day                          | -                                                                                                                                                              | -                                                                |

Table 1.2 cont.

| Country            | Sulphur dioxide                                                                                                                | Nitrogen dioxide                                                 | Ammonia                       | Nitric acid                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------|
| Poland 2,3,4       | KOH-impregnated Whatman 40 filter<br>3.5-4 m <sup>3</sup> /day                                                                 | Absorbing solution TGS<br>0.7 m <sup>3</sup> /day                | -                             | -                                                            |
| Poland 5           | KOH-impregnated Whatman 40 filter<br>16 m <sup>3</sup> /day                                                                    | Iodie method (impregnated glass sitner ) 0.7 m <sup>3</sup> /day | -                             | -                                                            |
| Portugal           | Absorbing Solutions H <sub>2</sub> O <sub>2</sub><br>2.5-4.2 m <sup>3</sup> /day.<br>Instrumental: UV-fluorescence at P4 only  | Instrumental: Chemiluminescence at P4 only                       | -                             | -                                                            |
| Russian Federation | NaOH-impregnated Whatman 40 filter<br>10-15 m <sup>3</sup> /day                                                                | Absorbing tubes KI<br>0.3 m <sup>3</sup> /day                    | -                             | -                                                            |
| Slovakia           | KOH-impregnated Whatman 41 filter<br>6-8 m <sup>3</sup> /day                                                                   | Absorbing solution NaOH and guajacol<br>0.5 m <sup>3</sup> /day  | -                             | KOH-impregnated Whatman 41 filter<br>6-8 m <sup>3</sup> /day |
| Slovenia           | KOH-impregnated Whatman 40 filter,<br>18-24 m <sup>3</sup> /day                                                                | -                                                                | -                             | -                                                            |
| Spain              | Absorbing solution H <sub>2</sub> O <sub>2</sub><br>2 m <sup>3</sup> /day                                                      | Absorbing solution Trietanolamine<br>1 m <sup>3</sup> /day       | -                             | -                                                            |
| Sweden             | KOH-impregnated Whatman 40 filter<br>20 m <sup>3</sup> /day                                                                    | NaI-impregnated glass sinters<br>~0.7 m <sup>3</sup> /day        | -                             | -                                                            |
| Switzerland        | CH1:<br>Absorbing solution H <sub>2</sub> O <sub>2</sub> 4.1 m <sup>3</sup> /day<br>CH2,3,4,5:<br>Instrumental UV-fluorescence | Instrumental: Chemiluminescence; Cranox at CH1                   | -                             | -                                                            |
| Turkey             | KOH-impregnated Whatman 40 filter,<br>27 m <sup>3</sup> /day                                                                   | NaI-impregnated glass sinters,<br>0.72 m <sup>3</sup> /day       | See sum of gases and aerosols | See sum of gases and aerosols                                |
| United Kingdom     | Absorbing solution H <sub>2</sub> O <sub>2</sub> 1.1m <sup>3</sup> /day                                                        | -                                                                | -                             | -                                                            |
| Yugoslavia         | Absorbing solution TCM,<br>1.6-2.5 m <sup>3</sup> /day                                                                         | Absorbing solution TGS,<br>1.6-2.5 m <sup>3</sup> /day           | -                             | -                                                            |
| CEC (I4)           | Instrumental UV-fluorescence                                                                                                   | Instrumental: Chemiluminescence                                  | -                             | -                                                            |

Table 1.3: Techniques for sampling of sums of gases and aerosols in 1999.

|                    | Ammonia and ammonium                                                                                        | Nitric acid and nitrate                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Denmark            | Aerosolfilter as for sulphate + Oxalic acid impregnated Whatman 41, 58 m <sup>3</sup> /day                  | Aerosolfilter as for sulphate + NaF-impregnated Whatman 41, 58 m <sup>3</sup> /day                    |
| Finland            | Oxalic acid impregnated Whatman 40 filter, 24 m <sup>3</sup> /day                                           | Whatman 40 + NaOH impregnated Whatman 40 filter, 24 m <sup>3</sup> /day                               |
| Hungary            | Teflon filter as for sulphate + alkaline impregnated Whatman 40 filter, 25 m <sup>3</sup> /day              | Teflon filter as for sulphate + KOH-impregnated Whatman 40 filter, 25 m <sup>3</sup> /day             |
| Latvia             | Oxalic acid impregnated Whatman 41 filter, 14-20 m <sup>3</sup> /day                                        | KOH impregnated Whatman 41 filter, 14-20 m <sup>3</sup> /day                                          |
| Lithuania          | Oxalic acid impregnated Whatman 40 filter, 16-17 m <sup>3</sup> /day                                        | KOH impregnated Whatman 40 filter, 16-17 m <sup>3</sup> /day                                          |
| Norway             | Aerosolfilter as for sulphate + Oxalic acid imp. filter, 25 m <sup>3</sup> /day                             | Aerosolfilter as for sulphate + KOH-imp.filter as for sulphur dioxide, 25 m <sup>3</sup> /day         |
| Poland 2,3,4       | Oxalic acid impregnated Whatman 40 filter, 4 m <sup>3</sup> /day                                            | PL2,3,4: NaF impregnated Whatman 40 filter, 4 m <sup>3</sup> /day                                     |
| Poland 5           | Aerosol Teflon filter (as for sulphate) + Oxalic acid impregnated Whatman 40 filter, 16 m <sup>3</sup> /day | Aerosol Teflon filter (as for sulphate) +NaOH impregnated Whatman 40 filter, 16 m <sup>3</sup> /day   |
| Russian Federation | Oxalic acid impregnated Whatman 40 filter 10-15 m <sup>3</sup> /day                                         | -                                                                                                     |
| Slovenia           | Aerosol filter as for sulphate + oxalic acid impregnated Whatman 40 filter, 18-24 m <sup>3</sup> /day       | Aerosol filter as for sulphate + oxalic acid impregnated Whatman 40 filter, 18-24 m <sup>3</sup> /day |
| Spain              | Oxalic acid impregnated Whatman 40 filter, 35 m <sup>3</sup> /day                                           | NaOH impregnated Whatman 40 filter, 35 m <sup>3</sup> /day                                            |
| Sweden             | Aerosolfilter as for sulphate + Oxalic acid impregnated Whatman 40 filter, 20 m <sup>3</sup> /day           | Aerosolfilter as for sulphate + KOH impregnated Whatman 40 filter, 20 m <sup>3</sup> /day             |
| Switzerland        | Citric acid impregnated Schleicher & Schüll 589/4 filter, 18 m <sup>3</sup> /day                            | NaOH impregnated Schleicher & Schüll 589/4 filter, 18 m <sup>3</sup> /day                             |
| Turkey             | Citric acid impregnated Whatman 40 filter<br>Teflon filter, Gelman Zeflour 2 µm, 27 m <sup>3</sup> /day     | KOH impregnated Whatman 40 filter<br>Teflon filter, Gelman Zeflour 2 µm, 27 m <sup>3</sup> /day       |
| United Kingdom     | Citric acid impregnated Whatman 40 filter, 25 m <sup>3</sup> /day GB2 and GB14                              | NaOH impregnated Whatman 40 filter, 25 m <sup>3</sup> /day GB2 and GB14                               |

*Table 1.4: Analytical methods used by the participants for components in aerosols, for gases, and for the sum of aerosol components and gases in 1999. Method numbers are given in Tables 1.6–1.9.*

|                | SO <sub>4</sub> | NH <sub>3</sub> /NH <sub>4</sub> | HNO <sub>3</sub> /NO <sub>3</sub> | SO <sub>2</sub> | NO <sub>2</sub> |
|----------------|-----------------|----------------------------------|-----------------------------------|-----------------|-----------------|
| Austria        | 1               | -                                | -                                 | 12              | 5               |
| Belgium        | 2               | -                                | -                                 | 7               | 4               |
| Croatia        | -               | -                                | -                                 | 6               | 3               |
| Czech Republic | 2               | 3                                | 4                                 | 3               | 3               |
| Denmark        | 10              | 3                                | 4                                 | 1               | 3               |
| Estonia        | 1               | -                                | -                                 | 1 & 9           | 3 & 4           |
| Finland        | 1               | 1                                | 1                                 | 1               | 4               |
| France         | 1               | -                                | -                                 | 1               | -               |
| Germany        | 2               | 4                                | 1                                 | 6               | 2               |
| Greece         | 1               | -                                | -                                 | 1               | 3               |
| Hungary        | 1               | 3                                | 1                                 | 1               | 3               |
| Iceland        | 13              | -                                | -                                 | 1               | -               |
| Ireland        | 1               | -                                | -                                 | 1               | 3               |
| Italy          | 1               | 1                                | 1                                 | 1               | 4               |
| Latvia         | 3               | 3                                | 2                                 | 3               | 3               |
| Lithuania      | 1               | 3                                | 1                                 | 1               | 3               |
| Netherlands    | 1               | 3                                | 1                                 | 9               | 4               |
| Norway         | 1               | 3/1                              | 1                                 | 1               | 3               |
| Poland 2,3,4   | 3               | 2                                | 4                                 | 3               | 3               |
| Poland 5       | 14              | 3                                | 14                                | 14              | 3               |
| Portugal       | -               | -                                | -                                 | -               | -               |
| Russian Fed.   | 1               | 1                                | 1                                 | 1/9*            | 3               |
| Slovakia       | 1               | -                                | 1                                 | 1               | 3               |
| Slovenia       | 1               | 1                                | 1                                 | 1               |                 |
| Spain          | 1               | 3                                | 1                                 | 3               | 3               |
| Sweden         | 1               | 4                                | 1                                 | 1               | 3               |
| Switzerland    | 2               | 1                                | 1                                 | 1/9**           | 4               |
| Turkey         | 1               | 3                                | 1                                 | 1               | 3               |
| United Kingdom | 1               | 1                                | 1                                 | 1               | 1               |
| Yugoslavia     | -               | -                                | -                                 | 6               | 3               |
| CEC (I4)       | 1               | 1                                | 1                                 | 9               | 4               |

\* 9 at RU1

\*\* 1 at CH1

9 at CH2, CH3, CH4, CH5

*Table 1.5: Analytical methods used by the participants for components in precipitation in 1999. Methods numbers are given in Tables 1.10–1.15.*

|                    | SO <sub>4</sub> | NO <sub>3</sub> | NH <sub>4</sub> | H <sup>+</sup> | Mg  | Na    | Cl | Ca  | K   |
|--------------------|-----------------|-----------------|-----------------|----------------|-----|-------|----|-----|-----|
| Austria            | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Belgium            | 1               | 1               | 1               | -              | 3   | 1     | 1  | 3   | 1   |
| Croatia            | 4               | 4               | 7               | 6              | 2   | 5     | 2  | 2   | 5   |
| Czech Republic     | 1               | 1               | 4/6             | 6              | 6   | 4     | 1  | 6   | 4   |
| Denmark            | 1               | 1               | 5               | 6              | 2   | 2     | 1  | 2   | 2   |
| Estonia            | 1               | 1               | 5               | -              | 2   | 3     | 1  | 3   | 3   |
| Finland            | 1               | 1               | 1               | 6              | 1   | 1     | 1  | 1   | 1   |
| France             | 1               | 1               | 4               | 6              | 1   | 1     | 1  | 1   | 1   |
| Germany            | 1               | 1               | 4               | -              | 3   | 6     | 1  | 3   | 6   |
| Greece             | 1               | 1               | 1               | 6              | 1   | 1     | 1  | 1   | 1   |
| Hungary            | 1               | 1               | 5               | 3              | 2   | 5     | 1  | 2   | 5   |
| Iceland            | 1               | -               | -               | -              | -   | 5/7## | -  | -   | -   |
| Ireland            | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Italy              | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Latvia             | 1               | 1               | 5               | -              | 2   | 2     | 2  | 7   | 2   |
| Lithuania          | 1               | 1               | 5               | 6              | 2   | 2     | 1  | 2   | 2   |
| Netherlands        | 1               | 1               | 6               | 5              | 8   | 7     | 1  | 8   | 7   |
| Norway             | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Poland 2,3,4       | 1               | 1               | 3               | -              | 2   | 5     | 1  | 2   | 5   |
| Poland 5           | 6               | 8               | 5               | -              | 8   | 7     | 5  | 8   | 2   |
| Portugal           | 1               | 1               | 5               | -              | 1   | 1     | 1  | 1   | 1   |
| Russian Federation | 1               | 1               | 1               | -              | 2   | 1     | 1  | 3   | 1   |
| Slovak Republic    | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Spain              | 1               | 1               | 5               | 6              | 3   | 3     | 1  | 3   | 6   |
| Sweden             | 1               | 1               | 4               | 6              | 1   | 1     | 1  | 1   | 1   |
| Switzerland        | 1               | 1               | 1               | -              | 1   | 1     | 1  | 1   | 1   |
| Turkey             | 1               | 1               | 5               | 6              | 2   | 5     | 1  | 2   | 5   |
| United Kingdom     | 1               | 1               | 1               | 6              | 1   | 1     | 1  | 1   | 1   |
| Yugoslavia         | 2               | 2               | 5               | -              | 2   | 5     | 2  | 2   | 5   |
| CEC (I4)           | 1               | 1               | 1/5             | 6              | 1/2 | 1/2   | 1  | 1/2 | 1/2 |

## from 1 Oct. 1998 new method

*Table 1.6: Methods used for analysing sulphur dioxide and sulphate in particles.*

|                                |                 |                 |    |
|--------------------------------|-----------------|-----------------|----|
| Ion chromatography             | SO <sub>2</sub> | SO <sub>4</sub> | 1  |
| X-ray fluorescence (XRF)       |                 | SO <sub>4</sub> | 2  |
| Thorin                         | SO <sub>2</sub> | SO <sub>4</sub> | 3  |
| Ring-oven technique            |                 | SO <sub>4</sub> | 4  |
| Isotopic dilution method       | SO <sub>2</sub> | SO <sub>4</sub> | 5  |
| Pararosanilin method           | SO <sub>2</sub> |                 | 6  |
| Flame photometry               | SO <sub>2</sub> |                 | 7  |
| Sulfonazo III, automatic,      | SO <sub>2</sub> | SO <sub>4</sub> | 8  |
| UV-fluorescence                | SO <sub>2</sub> |                 | 9  |
| Proton Induced X-ray           |                 |                 |    |
| Emission (PIXE)                |                 | SO <sub>4</sub> | 10 |
| Nephelometry (barium sulphate) | SO <sub>2</sub> | SO <sub>4</sub> | 11 |
| DOAS                           | SO <sub>2</sub> |                 | 12 |
| Plasma emission spectrometry   |                 | SO <sub>4</sub> | 13 |
| Capillary Electrophoresis      | SO <sub>2</sub> | SO <sub>4</sub> | 14 |

*Table 1.7: Methods used for analysing nitrogen dioxide.*

|                                   |   |
|-----------------------------------|---|
| Ion chromatography                | 1 |
| Saltzman                          | 2 |
| Spectrophotometric, Griess method | 3 |
| Chemiluminescence                 | 4 |
| DOAS                              | 5 |

*Table 1.8: Methods used for determination of ammonium in aerosols, ammonia, and the sum of ammonium and ammonia.*

|                                       |   |
|---------------------------------------|---|
| Ion chromatography                    | 1 |
| Spectrophotometric, Chloramin T       | 2 |
| Spectrophotometric, Indophenol method | 3 |
| Flow Injection Analysis               | 4 |

*Table 1.9: Methods used for determination of nitrate in aerosols, nitric acid, and the sum of nitrate and nitric acid.*

|                                                      |   |
|------------------------------------------------------|---|
| Ion chromatography                                   | 1 |
| Spectrophotometric, Griess after Cd reduction        | 2 |
| Spectrophotometric, Nitration of sodium salicylate   | 3 |
| Spectrophotometric, Griess after hydrazine reduction | 4 |

*Table 1.10: Methods used for determination of sulphate in precipitation.*

|                                          |   |
|------------------------------------------|---|
| Ion chromatography                       | 1 |
| Thorin                                   | 2 |
| Isotope dilution                         | 3 |
| Turbidity/Nephelometry (barium sulphate) | 4 |
| Sulfonazo III                            | 5 |
| Capillary Electrophoresis                | 6 |

*Table 1.11: Methods used for determination of nitrate in precipitation.*

|                                                |   |
|------------------------------------------------|---|
| Ion chromatography                             | 1 |
| Spectrophotometric Griess method, Cd reduction | 2 |
| Spectrophotometric, Flow injection analysis    | 3 |
| UV-spectrophotometric                          | 4 |
| Other spectrophotometric                       | 5 |
| Griess method, Hydrazine reduction             | 6 |
| Nessler's method after reduction               | 7 |
| Capillary Electrophoresis                      | 8 |

*Table 1.12: Methods used for determination of ammonium in precipitation.*

|                                                        |   |
|--------------------------------------------------------|---|
| Ion chromatography                                     | 1 |
| Spectrophotometric, Nessler's method                   | 2 |
| Spectrophotometric, Chloramin T                        | 3 |
| Spectrophotometric, Flow injection analysis            | 4 |
| Spectrophotometric, Indophenol method                  | 5 |
| As method 5, using sodium salicylate instead of phenol | 6 |
| Gas sensitive electrode                                | 7 |

*Table 1.13: Methods used for determination of strong acid in precipitation.*

|                                                     |   |
|-----------------------------------------------------|---|
| Coulometric titration method                        | 1 |
| As above, but automatic plotting of Gran's function | 2 |
| Alkali titration                                    | 3 |
| Gran's plot titration                               | 4 |
| Acid and alkali titration                           | 5 |
| Calculated from pH                                  | 6 |

*Table 1.14: Methods used for determination of magnesium and calcium in precipitation.*

|                                                 |   |
|-------------------------------------------------|---|
| Ion chromatography                              | 1 |
| Atomic absorption method                        | 2 |
| As method 2 + addition of lanthanum             | 3 |
| As method 2 + addition of cesium                | 4 |
| As method 2 + addition of potassium             | 5 |
| As method 2 + addition of lanthanum, cesium and | 6 |
| 8-Chynolynol                                    |   |
| Atomic emission method                          | 7 |
| Plasma emission spectrometry                    | 8 |

*Table 1.15: Methods used for determination of sodium and potassium in precipitation.*

|                                                              |   |
|--------------------------------------------------------------|---|
| Ion chromatography                                           | 1 |
| Atomic emission method                                       | 2 |
| As method 2 + addition of cesium                             | 3 |
| As method 2 + addition of lanthanum, cesium and 8-Chynolynol | 4 |
| Atomic absorption method                                     | 5 |
| As method 5 + addition of cesium                             | 6 |
| Plasma emission spectrometry                                 | 7 |

*Table 1.16: Methods used for determination of chloride in precipitation.*

|                                                     |   |
|-----------------------------------------------------|---|
| Ion chromatography                                  | 1 |
| Spectrophotometric, mercury thiocyanate/iron method | 2 |
| Ion selective electrode                             | 3 |
| Setpoint titration                                  | 4 |
| Capillary Electrophoresis                           | 5 |



## **Annex 2**

### **Monthly mean concentrations in gases and aerosols**



*Table 2.1: Monthly arithmetic averages of sulphur dioxide in 1999.  
(Unit:  $\mu\text{g S/m}^3$ ).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 4.32 | 3.18 | 3.21 | 2.19 | 2.08 | 0.65 | 0.82 | 0.79 | 1.19 | 1.51 | 2.65 | 2.63 | U  |
| AT0004R | 0.29 | 0.92 | 0.50 | 0.96 | 0.15 | -    | 0.29 | 0.23 | 0.56 | 0.47 | 0.68 | 0.54 | U  |
| AT0005R | 0.68 | 2.02 | 1.49 | 0.60 | 0.63 | 0.34 | 0.34 | 0.51 | 0.36 | 0.84 | 0.74 | 1.03 | U  |
| CH0001G | 0.07 | 0.30 | 0.13 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.05 | 0.04 | 0.21 | 0.07 | B  |
| CH0002R | 0.77 | 1.62 | 0.89 | 0.33 | 0.32 | 0.47 | 0.37 | 0.40 | 0.50 | 0.56 | 0.82 | 1.11 | U  |
| CH0003R | 1.34 | 1.94 | 0.96 | 0.63 | 0.50 | 0.43 | 0.41 | 0.40 | 0.49 | 0.55 | 0.84 | 1.08 | U  |
| CH0004R | 0.62 | 1.28 | 0.73 | 0.43 | 0.43 | 0.43 | 0.50 | 0.60 | 0.60 | 0.35 | 0.64 | 0.45 | U  |
| CH0005R | 0.47 | 1.02 | 0.46 | 0.28 | 0.21 | 0.25 | 0.30 | 0.24 | 0.28 | 0.25 | 0.57 | 0.49 | U  |
| CZ0001R | 3.26 | 3.56 | 2.84 | 2.05 | 2.04 | 1.28 | 1.02 | 1.66 | 1.45 | 1.46 | 3.41 | 3.79 | A  |
| CZ0003R | 2.08 | 3.33 | 3.35 | 1.79 | 1.42 | 1.33 | 0.90 | 1.04 | 1.21 | 1.25 | 2.26 | 2.25 | A  |
| DE0001R | 0.52 | 0.38 | 0.46 | 0.32 | 0.34 | 0.16 | 0.19 | 0.16 | -    | -    | -    | -    | D  |
| DE0002R | 0.90 | 0.72 | 0.92 | 0.50 | 0.40 | 0.24 | 0.23 | 0.36 | 0.85 | 0.78 | 0.81 | 0.48 | D  |
| DE0003R | 0.07 | 0.41 | 0.06 | 0.05 | 0.06 | 0.12 | 0.10 | 0.15 | 0.11 | 0.12 | 0.30 | 0.20 | D  |
| DE0004R | 1.71 | 1.38 | 0.77 | 0.34 | 0.32 | 0.36 | 0.22 | 0.22 | 0.61 | 0.88 | 1.26 | 0.74 | D  |
| DE0005R | 0.44 | 1.13 | 0.38 | 0.30 | 0.26 | 0.07 | 0.10 | 0.10 | 0.14 | 0.32 | 0.87 | 0.34 | D  |
| DE0007R | 1.02 | 0.57 | 1.00 | 0.55 | 0.60 | 0.18 | 0.40 | 0.54 | 0.93 | 0.64 | 0.68 | 0.43 | D  |
| DE0008R | 0.86 | 3.24 | 0.66 | 0.68 | 0.55 | 0.48 | 0.42 | 0.24 | 0.57 | 0.59 | 1.17 | 0.44 | D  |
| DE0009R | 0.91 | 0.83 | 1.07 | 0.38 | 0.61 | 0.51 | 0.41 | 0.20 | 1.20 | 1.03 | 0.78 | 0.62 | D  |
| DK0003R | 0.66 | 0.52 | 0.64 | 0.44 | 0.52 | 0.26 | 0.25 | 1.37 | 0.75 | 0.36 | 0.44 | 0.18 | A  |
| DK0005R | 0.93 | 0.61 | 0.95 | 0.77 | 0.77 | 0.59 | -    | 0.45 | 1.22 | 0.68 | 0.80 | 0.51 | A  |
| DK0008R | 0.83 | 0.41 | 0.92 | 0.90 | 0.67 | 0.43 | 0.70 | 0.60 | 1.02 | 0.49 | 0.66 | 0.39 | A  |
| EE0009R | 2.11 | 2.06 | 2.23 | 1.11 | 0.34 | 0.65 | 0.27 | 0.27 | 0.33 | 0.28 | 0.57 | 1.36 | B  |
| EE0011R | 1.06 | 0.75 | 1.18 | 0.34 | 0.37 | 0.33 | 0.29 | 0.23 | 0.22 | 0.20 | 1.24 | 0.93 | U  |
| ES0001R | 0.48 | 4.02 | 1.63 | 0.25 | 0.42 | 2.77 | 0.92 | 0.46 | 0.40 | 0.56 | 0.70 | 2.31 | D  |
| ES0003R | 0.70 | 1.76 | 1.64 | 0.27 | 0.38 | 1.17 | 0.50 | 0.42 | 1.06 | 1.02 | 0.78 | 2.04 | D  |
| ES0004R | 0.38 | 1.63 | 0.79 | 0.75 | 0.60 | 4.15 | 1.89 | 0.90 | 1.02 | 0.43 | 1.14 | 1.91 | D  |
| ES0005R | -    | -    | -    | 0.25 | 0.60 | 2.27 | 1.78 | 0.55 | 1.31 | 1.22 | 1.10 | 2.04 | D  |
| ES0007R | 0.27 | 1.69 | 0.43 | 0.38 | 0.43 | 0.82 | 0.39 | 0.71 | 0.52 | 0.41 | 1.35 | 1.51 | D  |
| ES0008R | 1.12 | 5.29 | 2.15 | 0.51 | 0.61 | 1.24 | 0.94 | 0.91 | 0.51 | 0.96 | 1.89 | 3.77 | D  |
| ES0009R | 0.68 | 2.08 | 0.68 | 0.79 | 0.58 | 1.54 | 0.67 | 0.50 | 1.28 | 0.82 | 1.78 | 1.76 | D  |
| ES0010R | 0.27 | 2.04 | 2.08 | 0.28 | 0.55 | 0.66 | 1.28 | 0.58 | 1.10 | 0.69 | 2.93 | 1.68 | D  |
| ES0011R | -    | -    | 1.40 | 0.28 | 0.72 | 0.76 | 1.54 | 0.60 | 0.45 | 0.37 | 2.44 | 1.65 | D  |
| ES0012R | 0.26 | 1.22 | 0.71 | 0.25 | 0.27 | 0.30 | 0.52 | 1.71 | 0.35 | 0.64 | 1.40 | 1.13 | D  |
| FI0009R | 1.04 | 0.86 | 0.98 | 0.36 | 0.49 | 0.45 | 0.34 | 0.31 | 0.37 | 0.24 | 0.51 | 0.57 | A  |
| FI0017R | 1.94 | 2.76 | 1.92 | 0.70 | 0.48 | 0.55 | 0.37 | 0.25 | 0.45 | 0.39 | 0.92 | 0.91 | A  |
| FI0022R | 1.27 | 1.05 | 0.73 | 0.39 | 0.40 | 0.13 | 0.09 | 0.08 | 0.17 | 0.09 | 0.44 | 0.90 | A  |
| FI0037R | 0.88 | 1.11 | 1.05 | 0.28 | 0.15 | 0.13 | 0.09 | 0.12 | 0.21 | 0.10 | 0.27 | 0.51 | A  |
| FR0003R | 0.70 | 0.61 | 0.49 | 0.35 | 0.38 | 0.29 | 1.18 | 0.47 | 0.80 | 0.64 | 0.75 | 0.84 | B  |
| FR0005R | 0.78 | 1.12 | 1.00 | 0.70 | 1.07 | 0.94 | 1.16 | 0.82 | 0.84 | 1.03 | 1.01 | 0.88 | B  |
| FR0008R | 0.56 | 1.07 | 0.53 | 0.39 | 0.50 | 0.28 | 0.45 | 0.36 | 0.57 | 0.41 | 1.15 | 0.64 | B  |
| FR0009R | 0.89 | -    | -    | 0.74 | 0.81 | 0.66 | 0.55 | 0.65 | 0.74 | 0.84 | 1.44 | 1.42 | B  |
| FR0010R | 1.74 | 2.51 | 0.54 | 0.38 | 0.42 | 0.34 | 0.39 | 0.39 | 0.38 | 0.56 | 1.21 | 0.53 | B  |
| FR0012R | 0.86 | 2.07 | 0.74 | 0.37 | 0.32 | 0.27 | 0.82 | 0.55 | 0.64 | 0.63 | 0.59 | 0.37 | B  |
| FR0013R | 0.41 | 0.99 | 0.49 | 0.38 | 0.29 | 0.34 | 0.76 | 0.66 | 0.46 | 0.69 | 0.54 | 0.97 | B  |
| FR0014R | 0.34 | 0.55 | 0.29 | 0.20 | 0.32 | 0.31 | 0.33 | 0.32 | 0.40 | 0.31 | 0.91 | 0.60 | B  |
| GB0002R | 0.43 | 0.40 | 0.44 | 0.66 | 0.48 | 0.52 | 0.43 | 0.62 | 0.64 | 0.42 | 0.51 | 0.43 | B  |
| GB0004R | 1.39 | 2.68 | 1.84 | 1.25 | 1.10 | 1.06 | 1.33 | 1.26 | 1.13 | 1.32 | 1.48 | 1.24 | B  |
| GB0006R | 0.31 | 0.20 | 0.27 | 0.31 | 0.33 | 0.27 | 0.33 | 0.34 | 0.20 | 0.37 | 0.23 | 0.20 | B  |
| GB0007R | 0.75 | 1.18 | 1.07 | 0.76 | 0.84 | 0.84 | 1.08 | 0.92 | 0.68 | 0.95 | 0.95 | 1.18 | B  |
| GB0013R | 0.54 | 0.47 | 0.43 | 0.54 | 0.61 | 0.62 | 0.59 | 0.51 | 0.50 | 0.73 | 0.97 | 0.34 | B  |
| GB0014R | 0.36 | 0.50 | 0.31 | 0.42 | 0.32 | 0.77 | 0.82 | 0.84 | 1.87 | 1.08 | 1.52 | 2.27 | B  |
| GB0015R | 0.23 | 0.24 | 0.28 | 0.49 | 0.35 | 0.43 | 0.39 | 0.53 | 0.45 | 0.27 | 0.30 | 0.24 | B  |
| GB0016R | 0.35 | 0.24 | 0.53 | 0.49 | 0.49 | 0.31 | 0.30 | 0.43 | 0.62 | 0.28 | 0.34 | 0.28 | B  |
| GR0001R | 0.54 | 0.53 | 0.92 | 1.43 | 0.54 | 0.47 | 0.27 | 0.64 | 0.22 | 0.91 | 0.94 | 0.89 | C  |
| HU0002R | 5.77 | 7.70 | 3.87 | 2.77 | 2.20 | 1.60 | 1.37 | 1.36 | 1.70 | 3.01 | 4.02 | 5.37 | A  |
| IE0002R | 0.09 | 0.11 | 0.11 | 0.14 | 0.21 | 0.06 | 0.15 | 0.10 | 0.06 | 0.13 | 0.09 | 0.07 | A  |
| IT0001R | 0.51 | 0.43 | 0.43 | 0.31 | 0.29 | 0.54 | 0.35 | 0.47 | 0.27 | 0.20 | 0.21 | 0.22 | A  |
| IT0004R | 1.27 | 1.60 | 2.07 | 1.45 | 1.41 | 1.41 | 1.31 | 1.07 | 1.22 | 1.27 | 1.70 | 2.67 | U  |
| LT0015R | 2.35 | 1.36 | 1.93 | 0.60 | 0.57 | 0.44 | 0.55 | 0.36 | 0.60 | 0.55 | 1.27 | 2.41 | A  |
| LV0010R | 0.14 | 0.23 | 0.06 | 0.24 | -    | 0.31 | 0.63 | 0.55 | 0.76 | 0.47 | 0.45 | 0.66 | B  |
| LV0016R | 0.51 | 1.29 | 1.53 | 1.00 | 0.49 | 0.45 | 0.34 | 0.24 | 0.41 | 0.55 | 0.27 | 0.42 | B  |
| NL0009R | 1.08 | 0.73 | 0.89 | 0.72 | 0.68 | 0.53 | 0.87 | 0.60 | 0.77 | 0.48 | 0.67 | 0.44 | U  |
| NL0010R | 1.69 | 1.75 | 1.69 | 1.33 | 1.84 | 1.20 | 1.47 | 1.37 | 1.53 | 1.82 | 1.02 | 1.18 | U  |

Table 2.1 contd.

|         | Jan   | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|----|
| NO0001R | 0.13  | 0.08 | 0.23 | 0.15 | 0.19 | 0.15 | 0.14 | 0.10 | 0.20 | 0.07 | 0.12 | 0.05 | A  |
| NO0008R | 0.14  | 0.07 | 0.20 | 0.08 | 0.12 | 0.04 | 0.05 | 0.03 | 0.16 | 0.08 | -    | 0.05 | A  |
| NO0015R | 0.19  | 0.11 | 0.37 | 0.07 | 0.03 | 0.04 | 0.03 | 0.01 | 0.03 | 0.02 | 0.04 | 0.06 | A  |
| NO0039R | 0.05  | 0.03 | 0.10 | 0.04 | 0.02 | 0.01 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | A  |
| NO0041R | 0.05  | 0.04 | 0.19 | 0.05 | 0.05 | 0.03 | 0.04 | 0.02 | 0.10 | 0.03 | 0.05 | 0.05 | A  |
| NO0042R | 0.22  | 0.33 | 0.12 | 0.24 | 0.07 | 0.03 | 0.11 | 0.02 | 0.01 | 0.04 | 0.03 | 0.35 | A  |
| NO0055R | 1.40  | 1.09 | 1.64 | 0.29 | 0.72 | 0.19 | 0.06 | 0.09 | 0.03 | 0.13 | 0.28 | 0.23 | A  |
| PL0002R | 5.12  | 5.49 | 3.29 | 1.78 | 0.97 | 1.07 | 1.28 | 1.54 | 1.61 | 2.64 | 3.88 | 5.54 | A  |
| PL0003R | 1.53  | 1.48 | 1.18 | 1.11 | 0.95 | 1.11 | 1.15 | 1.06 | 1.20 | 1.55 | 1.53 | 1.59 | A  |
| PL0004R | 2.49  | 1.18 | 2.04 | 0.97 | 1.25 | 1.35 | 1.59 | 1.38 | 0.94 | 1.07 | 1.75 | 1.55 | A  |
| PL0005R | -     | -    | -    | 0.47 | 0.19 | 0.26 | 0.23 | 0.27 | 0.32 | 0.52 | 1.50 | 2.85 | A  |
| RU0001R | 1.13  | 0.66 | 1.48 | 0.37 | 1.05 | 0.61 | 0.91 | 1.61 | 0.32 | 0.67 | 0.15 | 1.60 | B  |
| RU0016R | 1.95  | 2.52 | 2.57 | 0.69 | 0.33 | 0.41 | 0.33 | 0.40 | 0.40 | 0.28 | 0.84 | 1.61 | B  |
| RU0018R | -     | -    | -    | -    | -    | 0.27 | 0.24 | 0.09 | 0.04 | 0.12 | 0.36 | 0.37 | B  |
| SE0002R | 0.53  | 0.55 | 0.80 | 0.56 | 0.56 | 0.56 | 0.50 | 0.35 | 0.64 | 0.34 | 0.56 | 0.28 | B  |
| SE0005R | 0.19  | 0.18 | 0.30 | 0.06 | 0.05 | 0.07 | 0.05 | 0.04 | 0.07 | 0.03 | 0.06 | 0.05 | B  |
| SE0008R | 0.63  | 0.48 | 1.27 | 0.60 | 0.59 | 0.79 | 0.59 | 0.36 | 0.55 | 0.33 | 0.68 | 0.49 | B  |
| SE0011R | 0.89  | 0.57 | 0.76 | 0.46 | 0.50 | 0.48 | 0.23 | 0.27 | 0.84 | 0.50 | 0.65 | 0.52 | B  |
| SE0012R | 0.54  | 0.45 | 0.66 | 0.28 | 0.27 | 0.38 | 0.27 | 0.19 | 0.37 | 0.21 | 0.43 | 0.33 | B  |
| SI0008R | 1.07  | 2.43 | 1.92 | 0.62 | 0.52 | 0.33 | 0.51 | 0.80 | 0.74 | 0.44 | 0.86 | 1.31 | A  |
| SK0002R | 1.20  | 1.50 | 1.51 | 1.17 | 0.87 | 0.72 | 0.77 | 0.67 | 0.90 | 1.00 | 1.89 | 1.32 | A  |
| SK0004R | 3.80  | 2.44 | 2.42 | 1.32 | 0.93 | 1.01 | 0.95 | 0.89 | 1.07 | 1.28 | 2.54 | 2.07 | A  |
| SK0005R | 16.45 | 9.03 | 4.32 | 2.01 | 1.24 | 1.77 | 0.86 | 0.71 | 0.84 | 1.57 | 5.19 | 5.51 | A  |
| SK0006R | 6.76  | 8.05 | 2.38 | 1.36 | 1.13 | 0.71 | 1.08 | 1.43 | 1.62 | 2.27 | 5.09 | 4.95 | A  |
| TR0001R | -     | -    | 0.81 | 1.59 | 0.56 | 0.72 | 0.23 | 0.25 | -    | 0.69 | 1.33 | 2.25 | U  |
| YU0005R | 7.18  | 6.71 | 6.43 | 3.68 | 2.50 | -    | -    | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | D  |
| YU0008R | 5.74  | 2.73 | 3.02 | 2.66 | 2.71 | 2.57 | 3.17 | 2.50 | 2.50 | 2.72 | 2.85 | 2.96 | D  |

Table 2.2: Sulphur dioxide 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 25  | 85  | 54  | 90  | 100 | 53  | 90  | 100 | 100 | 87  | 100 | 100 | U  |
| AT0004R | 29  | 7   | 22  | 20  | 38  | 0   | 100 | 96  | 100 | 100 | 100 | 87  | U  |
| AT0005R | 29  | 35  | 41  | 63  | 45  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | U  |
| CH0001G | 100 | 100 | 93  | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 96  | 100 | B  |
| CH0002R | 100 | 100 | 100 | 100 | 100 | 86  | 87  | 100 | 100 | 93  | 100 | 100 | U  |
| CH0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| CH0004R | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 87  | 100 | 100 | 100 | 93  | U  |
| CH0005R | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | U  |
| CZ0001R | 100 | 100 | 100 | 96  | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 100 | A  |
| CZ0003R | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| DE0001R | 96  | 100 | 100 | 100 | 96  | 100 | 96  | 25  | 0   | 0   | 0   | 0   | D  |
| DE0002R | 96  | 100 | 96  | 96  | 90  | 100 | 100 | 93  | 100 | 87  | 96  | 100 | D  |
| DE0003R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 54  | 100 | 100 | 100 | 96  | D  |
| DE0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | D  |
| DE0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DK0003R | 100 | 100 | 100 | 93  | 87  | 100 | 87  | 90  | 100 | 100 | 96  | 96  | A  |
| DK0005R | 96  | 100 | 100 | 100 | 100 | 56  | 0   | 96  | 96  | 100 | 90  | 48  | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 76  | 100 | 100 | 96  | 100 | 100 | 100 | A  |
| EE0009R | 90  | 92  | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | B  |
| EE0011R | 100 | 82  | 100 | 100 | 100 | 100 | 87  | 80  | 96  | 100 | 96  | 70  | U  |
| ES0001R | 100 | 71  | 100 | 100 | 100 | 100 | 96  | 93  | 100 | 100 | 100 | 100 | D  |
| ES0003R | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 100 | 90  | 100 | D  |
| ES0004R | 74  | 100 | 83  | 80  | 87  | 96  | 80  | 90  | 93  | 100 | 100 | 100 | D  |
| ES0005R | 0   | 0   | 0   | 16  | 96  | 100 | 74  | 100 | 86  | 90  | 80  | 100 | D  |
| ES0007R | 100 | 85  | 93  | 96  | 93  | 66  | 96  | 100 | 100 | 93  | 100 | 80  | D  |
| ES0008R | 19  | 92  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | D  |
| ES0009R | 93  | 100 | 100 | 100 | 100 | 100 | 83  | 100 | 96  | 93  | 100 | 100 | D  |
| ES0010R | 45  | 100 | 96  | 100 | 93  | 100 | 93  | 70  | 100 | 100 | 100 | 70  | D  |
| ES0011R | 0   | 0   | 9   | 90  | 87  | 100 | 96  | 93  | 100 | 100 | 90  | 100 | D  |
| ES0012R | 67  | 78  | 77  | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |

Table 2.2 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FI0009R | 93  | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0017R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0022R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | A  |
| FI0037R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | A  |
| FR0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 80  | 100 | 100 | 77  | B  |
| FR0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 100 | 100 | 100 | 77  | B  |
| FR0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 93  | B  |
| FR0009R | 35  | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| FR0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 100 | 77  | B  |
| FR0012R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 70  | 96  | 100 | 100 | B  |
| FR0013R | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | B  |
| FR0014R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 100 | 87  | B  |
| GB0002R | 32  | 96  | 100 | 96  | 100 | 96  | 96  | 100 | 100 | 100 | 100 | 100 | B  |
| GB0004R | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 96  | 100 | 54  | 100 | 74  | B  |
| GB0006R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 96  | 100 | B  |
| GB0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| GB0013R | 87  | 92  | 90  | 100 | 80  | 40  | 100 | 83  | 90  | 100 | 100 | 100 | B  |
| GB0014R | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 100 | 100 | 100 | B  |
| GB0015R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| GB0016R | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| GR0001R | 22  | 78  | 61  | 90  | 100 | 100 | 90  | 32  | 20  | 83  | 93  | 100 | C  |
| HU0002R | 100 | 96  | 83  | 90  | 96  | 93  | 100 | 96  | 96  | 100 | 100 | 93  | A  |
| IE0002R | 96  | 100 | 100 | 66  | 61  | 100 | 100 | 100 | 96  | 100 | 96  | 83  | A  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | U  |
| LT0015R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 100 | 100 | 100 | 90  | A  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 96  | 100 | 96  | 100 | 96  | 100 | 87  | B  |
| LV0016R | 100 | 100 | 87  | 96  | 96  | 100 | 100 | 100 | 100 | 54  | 90  | 100 | B  |
| NL0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| NL0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90  | U  |
| NO0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | A  |
| NO0008R | 93  | 100 | 77  | 100 | 96  | 100 | 100 | 48  | 50  | 51  | 0   | 100 | A  |
| NO0015R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0039R | 87  | 96  | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 74  | A  |
| NO0041R | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 100 | A  |
| NO0042R | 100 | 100 | 100 | 96  | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0055R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 100 | A  |
| PL0002R | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 87  | 96  | 96  | A  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 87  | A  |
| PL0005R | 0   | 0   | 0   | 100 | 100 | 96  | 100 | 100 | 100 | 90  | 100 | 100 | A  |
| RU0001R | 77  | 75  | 77  | 83  | 48  | 100 | 100 | 100 | 100 | 32  | 30  | 100 | B  |
| RU0016R | 87  | 96  | 100 | 96  | 51  | 100 | 100 | 90  | 86  | 45  | 70  | 80  | B  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 66  | 100 | 100 | 93  | 100 | 76  | 35  | B  |
| SE0002R | 87  | 96  | 100 | 100 | 100 | 100 | 77  | 100 | 100 | 100 | 100 | 64  | B  |
| SE0005R | 96  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | B  |
| SE0008R | 77  | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | B  |
| SE0011R | 96  | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 70  | B  |
| SE0012R | 100 | 100 | 100 | 96  | 100 | 100 | 96  | 100 | 100 | 83  | 100 | 96  | B  |
| SI0008R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0002R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 93  | 100 | A  |
| SK0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | A  |
| SK0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0006R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| TR0001R | 0   | 0   | 45  | 100 | 100 | 90  | 87  | 45  | 0   | 83  | 100 | 96  | U  |
| YU0005R | 35  | 89  | 41  | 96  | 9   | 0   | 0   | 54  | 60  | 54  | 90  | 93  | D  |
| YU0008R | 96  | 92  | 96  | 96  | 93  | 96  | 96  | 96  | 93  | 96  | 96  | 96  | D  |

*Table 2.3: Monthly arithmetic averages of nitrogen dioxide in 1999.  
(Unit:  $\mu\text{g N/m}^3$ ).*

|         | Jan  | Feb   | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec   | QA |
|---------|------|-------|------|------|------|------|------|------|------|------|------|-------|----|
| AT0002R | 3.49 | 3.03  | 2.39 | 2.02 | 1.15 | 1.14 | 1.66 | 1.62 | 2.41 | 2.62 | 4.24 | 3.78  | U  |
| AT0004R | 1.18 | 0.21  | 1.18 | 0.73 | 1.18 | 1.18 | 1.01 | 1.49 | 1.58 | 2.12 | 3.24 | 1.38  | U  |
| AT0005R | 1.09 | 1.30  | 0.82 | 0.44 | 0.84 | 0.76 | 0.64 | 0.72 | 0.75 | 1.04 | 1.35 | 1.15  | U  |
| BE0001R | 4.29 | 5.76  | 6.83 | 3.95 | 3.63 | 3.62 | 3.58 | 3.41 | 3.74 | 5.06 | 5.73 | 4.29  | U  |
| BE0032R | 4.90 | 7.72  | 5.36 | 4.29 | 3.65 | 4.03 | 3.18 | 3.04 | 3.25 | 5.50 | 5.93 | 4.76  | U  |
| BE0035R | 6.74 | 10.03 | 7.42 | 5.83 | 5.62 | 5.20 | 5.03 | 4.99 | 6.39 | 6.09 | 9.00 | 6.93  | U  |
| CH0001G | 0.14 | 0.14  | 0.16 | 0.15 | 0.08 | 0.07 | 0.07 | 0.05 | 0.07 | 0.07 | 0.15 | 0.07  | A  |
| CH0002R | 7.79 | 6.64  | 5.95 | 4.01 | 3.54 | 3.08 | 2.98 | 3.35 | 4.51 | 5.60 | 7.06 | 6.83  | C  |
| CH0003R | 6.65 | 7.45  | 5.37 | 3.77 | 3.42 | 3.10 | 2.80 | 3.23 | 3.79 | 5.17 | 8.13 | 6.28  | C  |
| CH0004R | 1.75 | 2.43  | 3.32 | 2.76 | 2.28 | 2.36 | 2.14 | 2.36 | 2.50 | 3.01 | 2.70 | 1.58  | C  |
| CH0005R | 1.61 | 2.55  | 3.36 | 2.53 | 1.88 | 2.21 | 2.25 | 2.25 | 2.33 | 2.85 | 3.21 | 1.83  | C  |
| CZ0001R | 3.65 | 2.06  | 1.29 | 0.83 | 1.94 | 1.80 | 0.40 | 0.83 | 1.77 | 1.00 | 1.34 | 2.00  | B  |
| CZ0003R | 2.73 | 3.53  | 3.03 | 2.13 | 1.38 | 1.70 | 0.83 | 0.83 | 2.25 | 1.67 | 2.03 | 2.04  | B  |
| DE0001R | 3.40 | 2.49  | 2.87 | 2.07 | 1.55 | 1.26 | 1.36 | 1.46 | 2.02 | 1.82 | 2.85 | 2.28  | D  |
| DE0002R | 3.40 | 3.10  | 2.42 | 1.86 | 1.65 | 1.53 | 1.56 | 1.80 | 2.41 | 2.77 | 4.78 | 2.88  | D  |
| DE0003R | 1.19 | 1.34  | 1.31 | 1.20 | 1.20 | 1.29 | 1.12 | 0.99 | 1.18 | 1.27 | 1.55 | 1.31  | D  |
| DE0004R | 2.87 | 2.91  | 2.39 | 1.68 | 1.72 | 1.61 | 1.55 | 1.63 | 1.89 | 2.65 | 3.56 | 2.45  | D  |
| DE0005R | 1.95 | 2.63  | 1.80 | 1.54 | 1.38 | 1.29 | 1.38 | 1.37 | 1.47 | 1.97 | 3.07 | 2.51  | D  |
| DE0007R | 3.00 | 2.21  | 1.78 | 1.39 | 1.16 | 1.11 | 1.24 | 1.50 | 2.12 | 2.09 | 3.52 | 2.52  | D  |
| DE0008R | 2.81 | 2.81  | 1.76 | 1.29 | 1.27 | 1.08 | 1.17 | 1.17 | 1.28 | 1.84 | 3.23 | 1.96  | D  |
| DE0009R | 2.75 | 2.66  | 2.06 | 1.89 | 1.69 | 1.56 | 1.47 | 1.48 | 1.36 | 1.10 | 3.18 | 2.51  | D  |
| DK0008R | 2.99 | 2.42  | 2.84 | 2.65 | 1.68 | 1.34 | 1.84 | 1.06 | 1.90 | 1.42 | 3.25 | 2.07  | A  |
| EE0009R | 0.72 | 0.72  | 0.59 | 0.58 | 0.46 | 0.50 | 0.47 | 0.47 | 0.48 | 0.61 | 0.58 | -     | C  |
| EE0009R | -    | -     | -    | -    | -    | -    | -    | -    | -    | 0.46 | 0.46 | 0.56  | C  |
| EE0011R | 1.47 | 0.85  | 1.14 | 1.21 | 1.04 | 0.90 | 0.59 | 0.60 | 0.78 | 0.64 | 0.88 | 0.56  | U  |
| ES0001R | 6.59 | 2.37  | 4.55 | 6.27 | 1.25 | 3.56 | 1.94 | 1.21 | 1.00 | 2.23 | 0.91 | 0.48  | D  |
| ES0003R | 5.98 | 2.01  | 3.16 | 5.79 | 1.74 | 4.27 | 4.58 | 2.77 | 1.57 | 1.96 | 1.88 | 1.31  | D  |
| ES0004R | 8.40 | 2.66  | 4.86 | 4.23 | 1.08 | 3.75 | 2.99 | 1.47 | 1.46 | 2.61 | 1.37 | 0.72  | D  |
| ES0005R | -    | -     | -    | 5.50 | 1.17 | 3.05 | 2.23 | 2.30 | 1.28 | 1.66 | 2.70 | 1.15  | D  |
| ES0007R | 7.73 | 3.15  | 4.20 | 5.89 | 1.52 | 4.43 | 3.41 | 3.02 | 1.40 | 3.32 | 2.15 | 0.74  | D  |
| ES0008R | 5.45 | 1.77  | 4.58 | 6.39 | 1.53 | 4.29 | 2.27 | 2.77 | 1.31 | 3.56 | 0.80 | 1.53  | D  |
| ES0009R | 6.60 | 2.38  | 4.45 | 5.83 | 1.54 | 3.85 | 1.62 | 2.39 | 2.98 | 4.37 | 1.43 | 2.42  | D  |
| ES0010R | 5.89 | 2.40  | 4.68 | 3.66 | 0.90 | 4.21 | 1.16 | 1.22 | 2.08 | 5.33 | 2.94 | 1.99  | D  |
| ES0011R | -    | -     | 5.93 | 1.61 | 1.06 | 3.70 | 1.58 | 2.74 | 2.75 | 3.42 | 2.94 | 1.98  | D  |
| ES0012R | 9.97 | 1.34  | 4.50 | 3.02 | 1.40 | 4.28 | 1.19 | 3.00 | 4.31 | 2.71 | 2.39 | 1.87  | D  |
| FI0009R | 1.35 | 1.59  | 2.69 | 3.15 | 2.45 | 1.95 | 1.00 | 0.54 | 0.73 | 0.78 | 1.56 | 1.61  | C  |
| FI0017R | 3.81 | 2.98  | 2.28 | 1.69 | 1.20 | 1.79 | 1.05 | 0.82 | 1.19 | 1.14 | 1.69 | 1.63  | C  |
| FI0022R | 0.58 | 1.19  | 0.94 | 0.66 | 0.46 | 1.00 | 0.46 | 0.24 | 0.37 | 0.08 | 0.31 | 0.33  | C  |
| FI0037R | 1.33 | 1.52  | 2.20 | 1.05 | 0.67 | 0.85 | 0.50 | 0.38 | 0.61 | 0.55 | 0.90 | 1.17  | C  |
| GB0036R | 5.27 | 5.09  | 5.41 | 3.38 | 4.05 | 3.05 | -    | -    | -    | -    | 3.54 | 3.53  | C  |
| GB0037R | 3.53 | 4.01  | 3.81 | 3.79 | 3.05 | 3.21 | 2.59 | 3.30 | 3.74 | 2.68 | 3.44 | 3.42  | C  |
| GB0038R | 4.18 | 5.61  | 5.84 | 3.20 | 3.62 | 3.01 | -    | -    | -    | 5.28 | 4.02 | 4.54  | C  |
| GB0043R | 1.71 | -     | -    | -    | 1.88 | 1.61 | 1.49 | 1.58 | 1.10 | 2.00 | 1.72 | 1.04  | C  |
| GB0045R | 5.72 | 4.93  | 5.08 | 3.65 | 2.37 | 3.14 | 2.43 | 3.33 | 4.38 | 4.93 | 5.67 | 5.96  | C  |
| GR0001R | 2.61 | 1.64  | 2.21 | 2.07 | 3.37 | 3.22 | 4.00 | 3.90 | 2.70 | 3.35 | 3.04 | 1.90  | B  |
| HU0002R | 3.02 | 1.72  | 1.29 | 1.26 | 1.14 | 1.25 | 1.09 | 1.54 | 1.35 | 1.96 | 2.67 | 2.31  | A  |
| IT0001R | 5.29 | 4.03  | 5.17 | 4.70 | 4.30 | 4.48 | 3.71 | 3.45 | 3.91 | 3.93 | 4.73 | 3.83  | C  |
| IT0004R | 9.89 | 9.66  | 9.45 | 6.04 | 4.29 | 4.52 | 4.54 | 4.07 | 4.31 | 5.99 | 7.55 | 10.52 | C  |
| LT0015R | 1.81 | 0.94  | 1.32 | 0.99 | 0.59 | 1.17 | 1.32 | 1.02 | 1.11 | 0.97 | 1.45 | 1.38  | A  |
| LV0010R | 0.53 | 0.46  | 0.55 | 0.48 | -    | 0.40 | 0.57 | 0.56 | 0.67 | 0.62 | 0.76 | 1.18  | A  |
| LV0016R | 0.82 | 0.65  | 0.61 | 0.72 | 0.42 | 0.43 | 0.55 | 0.69 | 0.44 | 0.47 | 0.60 | 0.67  | A  |
| NL0009R | 5.71 | 4.68  | 4.66 | 2.99 | 3.03 | 2.11 | 2.44 | 2.46 | 4.06 | 3.60 | 5.13 | 4.13  | C  |
| NL0010R | 7.43 | 9.01  | 8.67 | 6.48 | 6.62 | 4.83 | 6.04 | 6.45 | 7.25 | 7.86 | 8.86 | 8.33  | C  |
| NO0001R | 0.82 | 0.46  | 0.75 | 0.36 | 0.47 | 0.39 | 0.40 | 0.38 | 0.56 | 0.54 | 0.64 | 0.50  | A  |
| NO0008R | 0.49 | 0.38  | 0.55 | 0.36 | 0.40 | 0.41 | 0.40 | 0.33 | 0.35 | 0.33 | 0.44 | 0.45  | A  |
| NO0015R | 0.14 | 0.19  | 0.15 | 0.10 | 0.08 | 0.12 | 0.12 | 0.15 | 0.17 | 0.17 | 0.17 | 0.18  | A  |
| NO0039R | 0.24 | 0.38  | 0.19 | 0.16 | 0.22 | 0.18 | 0.14 | 0.22 | 0.27 | 0.29 | 0.21 | 0.27  | A  |
| NO0041R | 0.71 | 0.39  | 0.62 | 0.27 | 0.18 | 0.24 | 0.17 | 0.17 | 0.25 | 0.40 | 0.56 | 0.55  | A  |
| NO0055R | 0.32 | 0.69  | 0.33 | 0.21 | 0.12 | 0.15 | 0.06 | 0.09 | 0.21 | 0.26 | 0.33 | 0.34  | A  |
| PL0002R | 3.67 | 2.78  | 2.15 | 1.82 | 1.40 | 1.88 | 2.23 | 2.76 | 3.06 | 2.70 | 3.84 | 3.67  | B  |
| PL0003R | 1.45 | 1.30  | 1.11 | 1.16 | 1.03 | 1.11 | 0.99 | 1.06 | 1.18 | 1.57 | 1.54 | 1.47  | B  |
| PL0004R | 2.07 | 1.76  | 1.76 | 1.18 | 1.14 | 0.95 | 1.02 | 0.67 | 0.91 | 1.29 | 2.55 | 1.83  | B  |
| PL0005R | -    | -     | -    | 0.83 | 0.81 | 0.56 | 0.46 | 0.65 | 0.89 | 0.97 | 2.24 | 2.34  | A  |

Table 2.3 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| SE0002R | 2.63 | 2.36 | 1.91 | 1.61 | 1.21 | 0.93 | 1.02 | 0.96 | 1.18 | 1.19 | 2.42 | 1.52 | A  |
| SE0005R | 0.42 | 0.29 | 0.28 | 0.16 | 0.14 | 0.12 | 0.09 | 0.06 | 0.15 | 0.11 | 0.22 | 0.24 | A  |
| SE0008R | 1.65 | 0.94 | 1.39 | 1.23 | 1.10 | 1.13 | 0.72 | 0.52 | 0.75 | 0.78 | 1.48 | 0.98 | A  |
| SE0011R | 2.94 | 2.58 | 1.68 | 1.19 | 1.06 | 1.25 | 0.91 | 1.04 | 1.55 | 1.40 | 2.39 | 2.25 | A  |
| SE0012R | 1.37 | 1.26 | 0.74 | 0.62 | 0.39 | 0.48 | 0.39 | 0.52 | 0.55 | 0.79 | 1.00 | 1.19 | A  |
| SK0002R | 0.53 | 1.00 | 1.03 | 0.95 | 0.94 | 1.16 | 0.93 | 0.88 | 0.83 | 0.84 | 0.92 | 0.83 | B  |
| SK0004R | 2.73 | 1.94 | 1.46 | 1.41 | 1.48 | 1.24 | 1.09 | 1.17 | 1.02 | 1.23 | 2.12 | 2.00 | B  |
| SK0005R | 3.51 | 2.57 | 1.97 | 1.58 | 1.67 | 1.49 | 1.47 | 1.35 | 1.42 | 1.70 | 2.79 | 2.44 | B  |
| SK0006R | 1.95 | 2.10 | 1.45 | 1.23 | 0.96 | 1.17 | 1.17 | 1.54 | 1.26 | 1.47 | 1.69 | 1.60 | B  |
| TR0001R | -    | -    | 0.72 | 0.59 | 0.44 | 0.39 | 0.40 | 0.43 | -    | 0.74 | 0.95 | 1.79 | D  |
| YU0005R | 2.99 | 3.26 | 2.68 | -    | -    | -    | -    | 1.76 | 1.91 | 5.07 | 3.20 | 2.78 | B  |
| YU0008R | 2.51 | 4.00 | 4.88 | 4.17 | 3.22 | 3.32 | 2.77 | 3.30 | 3.81 | 4.89 | 4.24 | 3.52 | B  |

Table 2.4: Nitrogen dioxide 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 22  | 28  | 54  | 90  | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 96  | U  |
| AT0004R | 51  | 3   | 25  | 26  | 100 | 96  | 48  | 54  | 96  | 87  | 70  | 83  | U  |
| AT0005R | 32  | 42  | 51  | 60  | 93  | 100 | 83  | 100 | 100 | 100 | 100 | 100 | U  |
| BE0001R | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | U  |
| BE0032R | 100 | 92  | 100 | 100 | 100 | 96  | 100 | 100 | 83  | 100 | 100 | 100 | U  |
| BE0035R | 100 | 85  | 100 | 100 | 87  | 100 | 100 | 100 | 83  | 100 | 100 | 100 | U  |
| CH0001G | 74  | 89  | 96  | 76  | 77  | 93  | 77  | 90  | 96  | 64  | 66  | 77  | A  |
| CH0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  | 96  | 100 | 100 | 80  | C  |
| CH0003R | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | C  |
| CH0004R | 93  | 100 | 100 | 100 | 70  | 100 | 100 | 87  | 100 | 100 | 100 | 93  | C  |
| CH0005R | 100 | 100 | 100 | 90  | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 87  | C  |
| CZ0001R | 90  | 100 | 90  | 66  | 93  | 80  | 93  | 90  | 90  | 77  | 83  | 90  | B  |
| CZ0003R | 100 | 89  | 100 | 100 | 96  | 96  | 96  | 96  | 100 | 96  | 96  | 100 | B  |
| DE0001R | 100 | 96  | 100 | 100 | 96  | 100 | 100 | 61  | 96  | 100 | 100 | 100 | D  |
| DE0002R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | D  |
| DE0003R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 100 | 93  | 96  | D  |
| DE0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 96  | 100 | D  |
| DE0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DE0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 16  | 96  | 100 | C  |
| EE0009R | 96  | 89  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 50  | 0   | C  |
| EE0011R | 96  | 82  | 100 | 100 | 100 | 100 | 80  | 80  | 96  | 100 | 66  | 19  | U  |
| ES0001R | 100 | 75  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| ES0003R | 90  | 82  | 96  | 100 | 100 | 100 | 83  | 100 | 96  | 100 | 93  | 100 | D  |
| ES0004R | 51  | 92  | 70  | 96  | 96  | 96  | 100 | 96  | 96  | 93  | 100 | 100 | D  |
| ES0005R | 0   | 0   | 0   | 10  | 100 | 70  | 93  | 100 | 96  | 93  | 100 | 100 | D  |
| ES0007R | 83  | 85  | 77  | 96  | 100 | 93  | 96  | 100 | 100 | 93  | 100 | 100 | D  |
| ES0008R | 19  | 85  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 96  | D  |
| ES0009R | 61  | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | D  |
| ES0010R | 35  | 100 | 100 | 63  | 58  | 93  | 90  | 70  | 100 | 100 | 93  | 83  | D  |
| ES0011R | 0   | 0   | 9   | 70  | 90  | 100 | 83  | 83  | 90  | 93  | 90  | 96  | D  |
| ES0012R | 12  | 67  | 93  | 96  | 90  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | D  |
| FI0009R | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 74  | 100 | 100 | C  |
| FI0017R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | C  |
| FI0022R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 90  | 100 | C  |
| FI0037R | 100 | 100 | 70  | 100 | 100 | 96  | 100 | 90  | 83  | 100 | 100 | 100 | C  |
| GB0036R | 96  | 92  | 48  | 70  | 45  | 83  | 0   | 0   | 0   | 0   | 93  | 100 | C  |
| GB0037R | 96  | 96  | 100 | 86  | 100 | 100 | 87  | 93  | 100 | 48  | 36  | 100 | C  |
| GB0038R | 90  | 100 | 100 | 100 | 93  | 60  | 0   | 0   | 0   | 64  | 93  | 67  | C  |
| GB0043R | 74  | 0   | 0   | 0   | 12  | 100 | 100 | 93  | 96  | 100 | 96  | 83  | C  |
| GB0045R | 64  | 89  | 100 | 66  | 96  | 80  | 96  | 93  | 100 | 80  | 73  | 93  | C  |
| GR0001R | 22  | 82  | 70  | 90  | 100 | 100 | 100 | 32  | 100 | 96  | 93  | 100 | B  |
| HU0002R | 100 | 92  | 100 | 96  | 96  | 93  | 100 | 74  | 96  | 100 | 100 | 96  | A  |
| IT0001R | 100 | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | C  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 96  | 100 | C  |

Table 2.4 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| LT0015R | 100 | 85  | 100 | 100 | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 90  | A  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 90  | A  |
| LV0016R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90  | 100 | A  |
| NL0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 76  | 100 | C  |
| NL0010R | 100 | 67  | 100 | 100 | 93  | 23  | 67  | 100 | 86  | 96  | 100 | 87  | C  |
| NO0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0008R | 100 | 100 | 67  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0015R | 100 | 100 | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 100 | 100 | A  |
| NO0039R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0041R | 100 | 96  | 100 | 66  | 83  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0055R | 100 | 96  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0002R | 100 | 100 | 64  | 86  | 100 | 96  | 100 | 100 | 96  | 87  | 96  | 96  | B  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 96  | 87  | B  |
| PL0005R | 0   | 0   | 0   | 100 | 96  | 100 | 100 | 93  | 93  | 96  | 96  | 100 | A  |
| SE0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 64  | A  |
| SE0005R | 100 | 96  | 100 | 100 | 96  | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0008R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 86  | 100 | 100 | 100 | A  |
| SE0011R | 96  | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 70  | A  |
| SE0012R | 100 | 100 | 93  | 96  | 9   | 96  | 100 | 100 | 100 | 96  | 100 | 96  | A  |
| SK0002R | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 100 | 100 | 96  | 100 | B  |
| SK0004R | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SK0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SK0006R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| TR0001R | 0   | 0   | 48  | 76  | 96  | 93  | 87  | 48  | 0   | 80  | 100 | 96  | D  |
| YU0005R | 90  | 96  | 45  | 0   | 0   | 0   | 0   | 54  | 56  | 54  | 86  | 87  | B  |
| YU0008R | 67  | 96  | 96  | 96  | 96  | 93  | 93  | 87  | 66  | 96  | 96  | 96  | B  |

Table 2.5: Monthly arithmetic averages of nitric acid in 1999. (Unit:  $\mu\text{g N/m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CZ0001R | 1.94 | 0.70 | 0.87 | 0.72 | 1.27 | 0.19 | 1.46 | 0.92 | 0.43 | 0.14 | 0.26 | 0.32 | U  |
| CZ0003R | 1.74 | 0.36 | 0.34 | 0.16 | 0.50 | 0.15 | 1.20 | 0.78 | 0.37 | 0.11 | 0.63 | 0.43 | U  |
| HU0002R | 0.30 | 0.28 | 0.21 | 0.33 | 0.33 | 0.30 | 0.20 | 0.21 | 0.19 | 0.20 | 0.36 | 0.33 | U  |
| IT0001R | 0.05 | 0.04 | 0.09 | 0.10 | 0.21 | 0.29 | 0.29 | 0.33 | 0.18 | 0.12 | 0.04 | 0.03 | A  |
| SK0002R | 0.09 | 0.06 | 0.08 | 0.10 | 0.09 | 0.11 | 0.11 | 0.07 | 0.05 | 0.06 | 0.06 | 0.05 | U  |
| SK0004R | 0.11 | 0.12 | 0.10 | 0.08 | 0.06 | 0.07 | 0.07 | 0.06 | 0.05 | 0.04 | 0.05 | 0.07 | U  |
| SK0005R | 0.08 | 0.08 | 0.07 | 0.08 | 0.05 | 0.10 | 0.05 | 0.03 | 0.04 | 0.08 | 0.06 | 0.05 | U  |
| SK0006R | 0.67 | 0.88 | 0.39 | 0.19 | 0.16 | 0.15 | 0.17 | 0.12 | 0.11 | 0.16 | 0.38 | 0.51 | U  |
| TR0001R | -    | -    | 0.07 | 0.14 | 0.08 | 0.06 | 0.09 | 0.04 | -    | 0.12 | 0.07 | 0.04 | U  |

Table 2.6: Nitric acid 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CZ0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| CZ0003R | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | U  |
| HU0002R | 100 | 96  | 83  | 90  | 96  | 93  | 100 | 96  | 96  | 100 | 100 | 93  | U  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| SK0002R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 93  | 100 | U  |
| SK0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | U  |
| SK0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| SK0006R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| TR0001R | 0   | 0   | 48  | 100 | 100 | 93  | 87  | 41  | 0   | 83  | 100 | 96  | U  |

*Table 2.7: Monthly arithmetic averages of ammonia in 1999. (Unit:  $\mu\text{g N/m}^3$ ).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CZ0001R | 1.90 | 0.90 | 0.48 | 0.41 | 1.54 | 1.41 | 1.19 | 1.43 | 2.03 | 1.14 | 1.60 | 1.29 | U  |
| CZ0003R | 1.70 | 0.82 | 1.08 | 1.91 | 1.63 | 1.27 | 1.31 | 1.90 | 4.12 | 1.06 | 1.53 | 1.36 | U  |
| DK0008R | 0.03 | 0.05 | 0.12 | 0.17 | 0.13 | 0.11 | 0.21 | 0.22 | 0.27 | 0.10 | 0.09 | 0.06 | U  |
| HU0002R | 0.43 | 0.49 | 0.65 | 1.10 | 1.85 | 2.04 | 1.48 | 1.69 | 1.99 | 1.37 | 0.59 | 0.51 | U  |
| HU0002R | 0.43 | 0.49 | 0.65 | 1.10 | 1.85 | 2.04 | 1.48 | 1.69 | 1.99 | 1.37 | 0.59 | 0.51 | U  |
| IT0001R | 0.50 | 1.16 | 1.10 | 1.01 | 2.23 | 2.43 | 2.31 | 2.25 | 1.85 | 1.24 | 0.65 | 0.64 | A  |
| TR0001R | -    | -    | 0.38 | 0.39 | 0.45 | 0.37 | 0.59 | 0.77 | -    | 0.42 | 0.42 | 0.34 | U  |

*Table 2.8: Ammonia 1999. Data completeness (per cent analyzed).*

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CZ0001R | 100 | 100 | 58  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| CZ0003R | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| DK0008R | 100 | 100 | 96  | 96  | 100 | 76  | 100 | 100 | 96  | 100 | 100 | 100 | U  |
| HU0002R | 100 | 89  | 96  | 93  | 90  | 86  | 100 | 100 | 96  | 100 | 100 | 93  | U  |
| HU0002R | 100 | 89  | 96  | 93  | 90  | 86  | 100 | 100 | 96  | 100 | 100 | 93  | U  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| TR0001R | 0   | 0   | 48  | 100 | 100 | 93  | 70  | 45  | 0   | 83  | 100 | 93  | U  |

*Table 2.9: Monthly arithmetic averages of sulphate in aerosols in 1999. (Unit:  $\mu\text{g S/m}^3$ ).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 1.35 | 0.63 | 0.80 | 0.67 | 0.83 | 0.83 | 0.98 | 0.83 | 1.25 | 0.79 | 1.33 | 0.81 | A  |
| CH0001G | 0.04 | 0.10 | 0.17 | 0.14 | 0.14 | 0.17 | 0.25 | 0.23 | 0.17 | 0.05 | 0.07 | 0.03 | A  |
| CH0002R | 0.60 | 0.76 | 0.81 | 0.51 | 0.68 | 0.68 | 0.84 | 0.79 | 0.80 | 0.78 | 0.95 | 0.48 | A  |
| CH0005R | 0.24 | 0.42 | 0.70 | 0.46 | 0.58 | 0.54 | 0.70 | 0.64 | 0.66 | 0.30 | 0.36 | 0.20 | A  |
| CZ0001R | 0.89 | 0.87 | 0.64 | 1.19 | 1.02 | 1.28 | 1.30 | 0.94 | 1.53 | 0.57 | 1.36 | 0.63 |    |
| CZ0003R | 1.15 | 0.78 | 1.78 | 1.09 | 1.19 | 0.94 | 1.04 | 1.03 | 1.63 | 1.04 | 0.95 | 0.93 |    |
| DE0001R | 0.78 | 0.90 | 1.16 | 1.02 | 0.81 | 0.71 | 0.80 | 0.58 | -    | -    | -    | -    | A  |
| DE0002R | 0.77 | 1.10 | 1.00 | 0.93 | 0.83 | 0.67 | 0.65 | 0.58 | -    | -    | -    | -    | A  |
| DE0003R | 0.46 | 0.37 | 0.55 | 0.52 | 0.67 | 0.60 | 0.59 | 0.48 | -    | -    | -    | -    | A  |
| DE0004R | 0.56 | 0.62 | 0.82 | 0.69 | 0.76 | 0.67 | 0.71 | 0.55 | -    | -    | -    | -    | A  |
| DE0005R | 0.65 | 0.65 | 1.07 | 0.52 | 1.02 | 0.85 | 0.74 | 0.63 | -    | -    | -    | -    | A  |
| DE0007R | 0.74 | 0.61 | 1.07 | 0.80 | 0.66 | 0.53 | 0.51 | 0.48 | -    | -    | -    | -    | A  |
| DE0008R | 0.43 | 0.45 | 0.81 | 0.61 | 0.70 | 0.60 | 0.59 | 0.45 | -    | -    | -    | -    | A  |
| DE0009R | 0.70 | 0.62 | 0.96 | 0.72 | 0.61 | 0.54 | 0.50 | 0.43 | -    | -    | -    | -    | A  |
| DK0003R | 0.69 | 0.57 | 1.30 | 0.97 | 1.11 | 0.93 | 0.87 | 3.82 | 1.47 | 0.58 | 0.75 | 0.49 | A  |
| DK0005R | 0.66 | 0.87 | 1.43 | 1.00 | 1.13 | 1.36 | -    | 1.09 | 1.87 | 0.78 | 1.06 | 0.80 | A  |
| DK0008R | 0.57 | 0.45 | 1.20 | 0.84 | 0.79 | 1.02 | 1.00 | 0.85 | 1.39 | 0.66 | 0.85 | 0.55 | A  |
| EE0009R | 0.49 | 0.30 | 0.40 | 0.60 | 0.39 | 0.44 | 0.39 | 0.34 | 0.36 | 0.30 | 0.29 | 0.27 | B  |
| ES0001R | 0.43 | 0.56 | 0.65 | 0.47 | 0.66 | 0.93 | 1.59 | 0.75 | 0.84 | 0.63 | 0.56 | 0.39 | A  |
| ES0003R | 0.89 | 0.90 | 1.29 | 0.95 | 1.70 | 1.64 | 1.90 | 1.75 | 1.36 | 1.27 | 1.27 | 0.73 | A  |
| ES0004R | 0.98 | 0.79 | 1.19 | 0.71 | 1.05 | 1.74 | 2.01 | 1.90 | 1.30 | 1.04 | 0.81 | 0.85 | A  |
| ES0005R | -    | -    | -    | 0.77 | 0.85 | 1.82 | 2.27 | 0.97 | 1.47 | 0.65 | 0.68 | 0.41 | A  |
| ES0007R | 0.55 | 0.97 | 0.93 | 0.86 | 1.26 | 1.52 | 2.27 | 1.21 | 1.34 | 0.70 | 0.72 | 0.61 | A  |
| ES0008R | 0.79 | 1.04 | 1.14 | 1.05 | 2.09 | 2.02 | 2.41 | 2.14 | 2.37 | 1.38 | 0.74 | 0.69 | A  |
| ES0009R | 0.49 | 0.55 | 0.66 | 0.48 | 0.63 | 0.88 | 1.25 | 0.96 | 0.98 | 0.60 | 0.49 | 0.26 | A  |
| ES0010R | 1.00 | 1.07 | 1.36 | 1.22 | 1.85 | 1.84 | 2.18 | 2.08 | 1.98 | 1.44 | 1.18 | 0.90 | A  |
| ES0011R | -    | -    | 0.73 | 0.72 | 0.98 | 1.48 | 2.40 | 1.14 | 1.28 | 0.67 | 0.64 | 0.50 | A  |
| ES0012R | 0.58 | 0.60 | 0.84 | 0.66 | 1.18 | 1.34 | 2.02 | 1.38 | 1.21 | 0.73 | 0.66 | 0.51 | A  |
| FI0009R | 1.01 | 0.79 | 1.27 | 0.74 | 0.70 | 0.80 | 0.59 | 0.37 | 0.83 | 0.50 | 0.80 | 0.65 | A  |
| FI0017R | 1.24 | 1.38 | 1.43 | 0.92 | 0.65 | 0.81 | 0.57 | 0.43 | 0.82 | 0.54 | 0.84 | 0.68 | A  |
| FI0022R | 0.59 | 0.93 | 0.82 | 0.57 | 0.55 | 0.40 | 0.23 | 0.18 | 0.49 | 0.24 | 0.45 | 0.43 | A  |
| FI0037R | 0.71 | 0.92 | 1.05 | 0.54 | 0.39 | 0.42 | 0.29 | 0.27 | 0.60 | 0.34 | 0.59 | 0.56 | A  |
| FR0003R | 0.59 | 0.58 | 0.73 | 0.43 | 0.77 | 0.64 | 0.72 | 0.66 | 0.77 | 0.54 | 0.60 | 0.35 | A  |
| FR0005R | 0.50 | 0.65 | 0.71 | 0.69 | 1.04 | 0.83 | 0.99 | 0.95 | 1.11 | 0.65 | 0.54 | 0.51 | A  |
| FR0008R | 0.29 | 0.37 | 0.55 | 0.48 | 0.62 | 0.27 | 0.38 | 0.37 | 0.55 | 0.24 | 0.37 | 0.22 | A  |
| FR0009R | 0.60 | -    | -    | 0.99 | 1.04 | 1.04 | 0.59 | 0.85 | 1.22 | 0.62 | 0.81 | 0.52 | A  |
| FR0010R | 0.55 | 0.45 | 0.80 | 0.49 | 0.78 | 0.41 | 0.64 | 0.52 | 0.60 | 0.40 | 0.86 | 0.27 | A  |
| FR0012R | 0.29 | 0.56 | 0.52 | 0.33 | 0.36 | 0.57 | 0.98 | 1.07 | 1.19 | 0.52 | 0.28 | 0.15 | A  |

Table 2.9 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| FR0013R | 0.34 | 0.41 | 0.66 | 0.41 | 0.70 | 0.79 | 1.14 | 0.90 | 0.61 | 0.62 | 0.70 | 0.33 | A  |
| FR0014R | 0.23 | 0.28 | 0.43 | 0.42 | 0.56 | 0.46 | 0.72 | 0.60 | 0.63 | 0.26 | 0.42 | 0.23 | A  |
| GB0002R | 0.39 | 0.39 | 0.46 | 0.78 | 0.84 | 0.56 | 0.56 | 0.69 | 0.65 | 0.44 | 0.38 | 0.24 | A  |
| GB0004R | 0.68 | 0.85 | 1.01 | 1.07 | 1.00 | 0.83 | 0.88 | 0.86 | 0.95 | 0.70 | 0.55 | 0.35 | A  |
| GB0006R | 0.23 | 0.28 | 0.37 | 0.49 | 0.64 | 0.38 | 0.58 | 0.58 | 0.26 | 0.58 | 0.29 | 0.16 | A  |
| GB0007R | 0.69 | 0.83 | 1.15 | 1.08 | 1.16 | 0.92 | 0.96 | 0.90 | 0.98 | 0.79 | 0.58 | 0.37 | A  |
| GB0013R | 0.38 | 0.45 | 0.54 | 0.63 | 0.81 | 0.74 | 0.81 | 0.72 | 0.74 | 0.52 | 0.34 | 0.14 | A  |
| GB0014R | 0.43 | 0.47 | 0.58 | 0.69 | 0.75 | 0.63 | 0.72 | 0.82 | 1.03 | 0.48 | 0.46 | 0.31 | A  |
| GB0015R | 0.27 | 0.34 | 0.40 | 0.74 | 0.47 | 0.32 | 0.35 | 0.46 | 0.40 | 0.33 | 0.14 | 0.13 | A  |
| GB0016R | 0.22 | 0.21 | 0.40 | 0.76 | 0.81 | 0.46 | 0.53 | 0.51 | 0.68 | 0.40 | 0.24 | 0.23 | A  |
| GR0001R | 0.70 | 0.74 | 1.33 | 1.10 | 1.14 | 1.47 | 1.75 | 1.11 | 0.05 | 1.41 | 1.29 | 1.13 | A  |
| HU0002R | 2.60 | 1.72 | 1.87 | 1.36 | 1.70 | 1.51 | 1.77 | 1.62 | 1.86 | 1.34 | 2.36 | 1.75 | A  |
| IE0002R | 0.23 | 0.31 | 0.34 | 0.39 | 0.64 | 0.41 | 0.54 | 0.34 | 0.23 | 0.35 | 0.30 | 0.14 | A  |
| IE0003R | 0.27 | 0.30 | 0.31 | 0.42 | 0.61 | 0.33 | 0.47 | 0.45 | 0.17 | 0.44 | 0.33 | 0.07 | A  |
| IS0002R | 0.08 | 0.12 | 0.12 | 0.21 | 0.19 | 0.18 | 0.21 | 0.13 | 0.10 | 0.10 | 0.09 | 0.04 | A  |
| IT0001R | 0.66 | 0.65 | 1.04 | 1.01 | 1.34 | 1.37 | 1.24 | 1.81 | 1.20 | 0.72 | 0.65 | 0.55 | A  |
| IT0004R | 0.57 | 0.88 | 2.02 | 1.22 | 1.94 | 1.43 | 2.17 | 1.64 | 2.00 | 1.65 | 0.91 | 1.05 | B  |
| LT0015R | 1.11 | 0.88 | 1.23 | 0.90 | 0.64 | 0.78 | 0.91 | 0.48 | 0.90 | 0.73 | 1.18 | 0.96 | A  |
| LV0010R | 0.17 | 0.21 | 0.07 | 0.08 | -    | 0.31 | 0.34 | 0.29 | 0.69 | 0.21 | 0.38 | 0.62 | B  |
| LV0016R | 0.41 | 1.07 | 1.36 | 1.17 | 0.84 | 0.53 | 0.33 | 0.26 | 0.55 | 0.34 | 0.21 | 0.28 | B  |
| NL0009R | 0.57 | 0.73 | 0.96 | 0.90 | 0.79 | 0.59 | 0.97 | 0.70 | 1.30 | 0.62 | 0.60 | 0.44 | A  |
| NL0010R | 0.66 | 1.05 | 1.16 | 1.00 | 1.10 | 0.58 | 1.04 | 0.85 | 1.45 | 0.80 | 0.95 | 0.55 | A  |
| NO0001R | 0.42 | 0.27 | 0.69 | 0.52 | 0.43 | 0.86 | 0.48 | 0.39 | 0.84 | 0.27 | 0.46 | 0.24 | A  |
| NO0008R | 0.23 | 0.25 | 0.47 | 0.49 | 0.33 | 0.57 | 0.32 | 0.35 | 0.88 | 0.17 | -    | 0.16 | A  |
| NO0015R | 0.19 | 0.23 | 0.45 | 0.28 | 0.23 | 0.28 | 0.16 | 0.16 | 0.40 | 0.10 | 0.18 | 0.12 | A  |
| NO0039R | 0.10 | 0.11 | 0.26 | 0.23 | 0.21 | 0.24 | 0.23 | 0.22 | 0.50 | 0.08 | 0.12 | 0.06 | A  |
| NO0041R | 0.22 | 0.18 | 0.56 | 0.34 | 0.29 | 0.50 | 0.27 | 0.16 | 0.57 | 0.13 | 0.28 | 0.15 | A  |
| NO0042R | 0.17 | 0.28 | 0.28 | 0.34 | 0.28 | 0.09 | 0.20 | 0.08 | 0.05 | 0.10 | 0.14 | 0.22 | A  |
| NO0055R | 0.46 | 0.55 | 0.77 | 0.45 | 0.60 | 0.30 | 0.17 | 0.11 | 0.29 | 0.08 | 0.26 | 0.29 | A  |
| PL0002R | 1.67 | 1.67 | 1.76 | 1.36 | 1.18 | 1.92 | 1.75 | 1.24 | 1.79 | 1.33 | 1.83 | 1.71 | A  |
| PL0003R | 0.52 | 0.56 | 0.79 | 0.80 | 0.97 | 0.82 | 0.91 | 0.84 | 0.73 | 0.67 | 0.60 | 0.53 | A  |
| PL0004R | 0.93 | 0.98 | 1.28 | 1.42 | 1.47 | 1.41 | 1.75 | 1.36 | 1.24 | 0.91 | 1.52 | 0.71 | A  |
| PL0005R | -    | -    | -    | 0.96 | 0.32 | 0.59 | 0.66 | 0.55 | 0.87 | 0.54 | 1.18 | 0.77 | A  |
| RU0001R | 0.56 | 1.13 | 1.30 | 0.54 | 0.78 | 0.43 | 0.19 | 0.20 | 0.40 | 0.14 | 0.54 | 0.33 | A  |
| RU0016R | 0.77 | 1.05 | 1.14 | 0.56 | 0.44 | 0.68 | 0.38 | 0.32 | 0.53 | 0.34 | 0.52 | 0.58 | A  |
| RU0018R | -    | -    | -    | -    | -    | 0.23 | 0.49 | 0.28 | 0.40 | 0.51 | 0.52 | 0.91 | A  |
| SE0002R | 0.54 | 0.57 | 1.09 | 0.90 | 0.40 | 0.64 | 0.57 | 0.47 | 1.07 | 0.60 | 0.93 | 0.27 | A  |
| SE0005R | 0.13 | 0.18 | 0.44 | 0.24 | 0.20 | 0.12 | 0.17 | 0.19 | 0.36 | 0.10 | 0.26 | 0.07 | A  |
| SE0008R | 1.00 | 0.55 | 1.36 | 0.77 | 0.29 | 0.64 | 0.68 | 0.38 | 0.90 | 0.53 | 1.02 | 0.46 | A  |
| SE0011R | 0.71 | 0.55 | 1.27 | 0.82 | 0.62 | 0.73 | 0.73 | 0.58 | 1.12 | 0.56 | 0.76 | 0.47 | A  |
| SE0012R | 0.64 | 0.32 | 1.13 | 0.45 | 0.34 | 0.67 | 0.46 | 0.27 | 0.75 | 0.48 | 0.87 | 0.28 | A  |
| SI0008R | 0.64 | 0.66 | 1.39 | 0.87 | 1.23 | 0.80 | 0.94 | 1.31 | 1.18 | 0.67 | 0.70 | 0.59 | A  |
| SK0002R | 0.32 | 0.24 | 0.53 | 0.43 | 0.71 | 0.69 | 0.92 | 0.67 | 0.36 | 0.24 | 0.30 | 0.23 | A  |
| SK0004R | 1.19 | 0.84 | 1.33 | 1.01 | 1.12 | 1.52 | 1.48 | 1.15 | 0.85 | 0.45 | 1.16 | 0.59 | A  |
| SK0005R | 1.72 | 1.19 | 1.60 | 1.21 | 1.19 | 1.79 | 1.05 | 0.80 | 1.11 | 0.93 | 1.58 | 0.91 | A  |
| SK0006R | 1.65 | 1.67 | 0.98 | 0.94 | 1.03 | 1.24 | 1.33 | 0.68 | 1.41 | 0.73 | 0.88 | 1.23 | A  |

Table 2.10: Sulphate in aerosols 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 100 | 100 | 93  | 100 | 100 | 96  | 100 | 100 | 100 | 93  | 96  | 67  | A  |
| CH0001G | 96  | 78  | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 96  | 96  | A  |
| CH0002R | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | A  |
| CH0005R | 100 | 100 | 96  | 93  | 100 | 100 | 100 | 100 | 100 | 64  | 100 | 87  | A  |
| CZ0001R | 16  | 17  | 6   | 6   | 16  | 16  | 19  | 16  | 13  | 12  | 16  | 16  |    |
| CZ0003R | 12  | 17  | 16  | 10  | 16  | 16  | 16  | 12  | 16  | 16  | 16  | 19  |    |
| DE0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 67  | 0   | 0   | 0   | 0   | A  |
| DE0002R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DE0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 0   | A  |
| DK0003R | 100 | 100 | 100 | 93  | 100 | 100 | 87  | 90  | 100 | 100 | 96  | 96  | A  |
| DK0005R | 96  | 100 | 100 | 100 | 100 | 56  | 0   | 96  | 96  | 100 | 90  | 48  | A  |
| DK0008R | 100 | 100 | 100 | 100 | 96  | 76  | 100 | 100 | 96  | 100 | 100 | 100 | A  |
| EE0009R | 93  | 96  | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | B  |
| ES0001R | 87  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 93  | 96  | 100 | 96  | A  |
| ES0003R | 80  | 92  | 90  | 93  | 100 | 96  | 96  | 96  | 83  | 93  | 93  | 87  | A  |
| ES0004R | 90  | 96  | 96  | 90  | 93  | 100 | 83  | 74  | 93  | 80  | 90  | 90  | A  |
| ES0005R | 0   | 0   | 0   | 13  | 35  | 86  | 100 | 100 | 80  | 77  | 96  | 90  | A  |
| ES0007R | 80  | 75  | 96  | 100 | 100 | 100 | 70  | 96  | 100 | 93  | 90  | 96  | A  |
| ES0008R | 90  | 100 | 58  | 63  | 83  | 96  | 87  | 96  | 96  | 96  | 90  | 70  | A  |
| ES0009R | 87  | 82  | 96  | 100 | 96  | 76  | 96  | 100 | 100 | 100 | 83  | 100 | A  |
| ES0010R | 100 | 89  | 96  | 100 | 93  | 96  | 87  | 87  | 93  | 100 | 86  | 96  | A  |
| ES0011R | 0   | 0   | 9   | 90  | 96  | 83  | 93  | 100 | 96  | 96  | 86  | 96  | A  |
| ES0012R | 100 | 71  | 100 | 100 | 96  | 96  | 74  | 100 | 96  | 100 | 93  | 83  | A  |
| FI0009R | 93  | 100 | 100 | 86  | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | A  |
| FI0017R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0022R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | A  |
| FI0037R | 96  | 100 | 100 | 100 | 100 | 100 | 93  | 90  | 100 | 100 | 100 | 100 | A  |
| FR0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 80  | 100 | 100 | 77  | A  |
| FR0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 96  | 100 | 100 | 77  | A  |
| FR0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 93  | 100 | 93  | A  |
| FR0009R | 35  | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FR0010R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 96  | 77  | A  |
| FR0012R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 70  | 96  | 96  | 100 | A  |
| FR0013R | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | A  |
| FR0014R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 96  | 87  | A  |
| GB0002R | 38  | 100 | 100 | 96  | 100 | 96  | 100 | 100 | 96  | 96  | 100 | 90  | A  |
| GB0004R | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 93  | 100 | 54  | 100 | 74  | A  |
| GB0006R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 83  | A  |
| GB0007R | 100 | 100 | 100 | 100 | 100 | 76  | 96  | 100 | 100 | 100 | 100 | 87  | A  |
| GB0013R | 90  | 92  | 90  | 100 | 80  | 40  | 100 | 83  | 93  | 100 | 100 | 90  | A  |
| GB0014R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90  | A  |
| GB0015R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | A  |
| GB0016R | 100 | 100 | 100 | 93  | 96  | 100 | 93  | 100 | 100 | 100 | 100 | 87  | A  |
| GR0001R | 22  | 78  | 83  | 80  | 100 | 100 | 100 | 32  | 20  | 83  | 93  | 100 | A  |
| HU0002R | 100 | 96  | 83  | 90  | 96  | 93  | 100 | 100 | 96  | 100 | 100 | 93  | A  |
| IE0002R | 100 | 100 | 100 | 66  | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 58  | 93  | 100 | 100 | 100 | 100 | A  |
| IS0002R | 93  | 100 | 93  | 100 | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 96  | A  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| IT0004R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | B  |
| LT0015R | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 100 | 96  | 90  | A  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 100 | 100 | 100 | 100 | 96  | 100 | 87  | B  |
| LV0016R | 100 | 100 | 87  | 96  | 96  | 100 | 100 | 100 | 100 | 54  | 90  | 100 | B  |
| NL0009R | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NL0010R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0008R | 96  | 100 | 77  | 100 | 96  | 100 | 100 | 48  | 50  | 51  | 0   | 100 | A  |
| NO0015R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0039R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 74  | A  |
| NO0041R | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 100 | A  |

Table 2.10 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| NO0042R | 100 | 100 | 100 | 96  | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0055R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 100 | A  |
| PL0002R | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 96  | 87  | 96  | 93  | A  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 87  | A  |
| PL0005R | 0   | 0   | 0   | 93  | 100 | 96  | 96  | 96  | 100 | 96  | 96  | 96  | A  |
| RU0001R | 77  | 75  | 77  | 83  | 48  | 100 | 100 | 100 | 100 | 32  | 30  | 100 | A  |
| RU0016R | 87  | 100 | 100 | 96  | 51  | 100 | 100 | 90  | 86  | 45  | 70  | 80  | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 66  | 100 | 100 | 93  | 100 | 76  | 35  | A  |
| SE0002R | 87  | 96  | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 100 | 100 | 64  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0008R | 77  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0011R | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 70  | A  |
| SE0012R | 100 | 100 | 100 | 96  | 83  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | A  |
| SI0008R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0002R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 100 | A  |
| SK0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0006R | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | A  |

Table 2.11: Monthly arithmetic averages of nitrate in aerosols in 1999.  
(Unit:  $\mu\text{g N/m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CZ0001R | 0.72 | 0.24 | 0.16 | 0.07 | 0.50 | 0.19 | 0.30 | 0.20 | 0.90 | 0.52 | 0.90 | 0.92 | U  |
| CZ0003R | 0.56 | 0.28 | 0.59 | 0.31 | 0.44 | 0.17 | 0.22 | 0.38 | 0.81 | 0.69 | 0.86 | 1.05 | U  |
| GR0001R | 0.38 | 0.23 | 0.45 | 0.28 | 0.22 | 0.19 | 0.20 | 0.20 | 0.03 | 0.32 | 0.34 | 0.39 | U  |
| HU0002R | 1.27 | 1.16 | 0.81 | 0.71 | 0.35 | 0.17 | 0.17 | 0.27 | 0.35 | 0.70 | 0.96 | 0.67 | U  |
| IT0001R | 1.30 | 0.93 | 1.02 | 0.76 | 0.79 | 0.63 | 0.42 | 0.59 | 0.52 | 0.71 | 0.85 | 0.70 | A  |
| IT0004R | 1.27 | 2.56 | 3.79 | 1.71 | 1.73 | 1.07 | 1.18 | 1.11 | 1.10 | 2.49 | 1.47 | 2.25 | U  |
| LV0010R | 0.06 | 0.05 | 0.02 | 0.04 | -    | 0.20 | 0.23 | 0.14 | 0.26 | 0.16 | 0.32 | 0.30 | U  |
| LV0016R | 0.25 | 0.32 | 0.65 | 0.92 | 0.36 | 0.21 | 0.19 | 0.14 | 0.25 | 0.26 | 0.18 | 0.16 | U  |
| NL0009R | 0.81 | 0.91 | 1.41 | 1.14 | 0.74 | 0.47 | 0.66 | 0.65 | 1.25 | 0.69 | 0.69 | 0.40 | A  |
| NL0010R | 0.77 | 1.35 | 1.53 | 1.20 | 1.04 | 0.71 | 0.85 | 0.91 | 1.43 | 0.88 | 0.81 | 0.59 | A  |
| PL0002R | 1.10 | 0.85 | 0.85 | 0.65 | 0.47 | 0.59 | 0.36 | 0.41 | 0.51 | 0.54 | 1.13 | 0.68 | U  |
| PL0003R | 0.16 | 0.14 | 0.17 | 0.20 | 0.29 | 0.24 | 0.31 | 0.28 | 0.25 | 0.18 | 0.14 | 0.12 | U  |
| PL0004R | 0.67 | 0.37 | 0.64 | 0.60 | 0.40 | 0.48 | 0.36 | 0.30 | 0.38 | 0.39 | 0.70 | 0.34 | U  |
| RU0001R | 0.08 | 0.08 | 0.14 | 0.07 | 0.04 | 0.06 | 0.05 | 0.02 | 0.05 | 0.02 | 0.12 | 0.04 | U  |
| RU0016R | 0.18 | 0.24 | 0.36 | 0.26 | 0.20 | 0.25 | 0.16 | 0.14 | 0.17 | 0.12 | 0.18 | 0.12 | U  |
| RU0018R | -    | -    | -    | -    | -    | 0.04 | 0.08 | 0.05 | 0.05 | 0.18 | 0.16 | 0.13 | U  |
| SK0002R | 0.11 | 0.07 | 0.20 | 0.26 | 0.34 | 0.24 | 0.34 | 0.28 | 0.15 | 0.09 | 0.08 | 0.04 | U  |
| SK0004R | 0.38 | 0.30 | 0.52 | 0.36 | 0.30 | 0.26 | 0.23 | 0.25 | 0.18 | 0.14 | 0.37 | 0.27 | U  |
| SK0005R | 0.71 | 0.70 | 0.73 | 0.70 | 0.52 | 0.43 | 0.24 | 0.28 | 0.30 | 0.48 | 0.77 | 0.55 | U  |
| SK0006R | 0.20 | 0.25 | 0.24 | 0.25 | 0.22 | 0.23 | 0.23 | 0.16 | 0.24 | 0.18 | 0.16 | 0.19 | U  |

Table 2.12: Nitrate in aerosols 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CZ0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| CZ0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| GR0001R | 22  | 78  | 83  | 83  | 100 | 100 | 100 | 32  | 20  | 83  | 93  | 100 | U  |
| HU0002R | 100 | 96  | 83  | 90  | 96  | 93  | 100 | 100 | 96  | 100 | 96  | 93  | U  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| IT0004R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | U  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 100 | 100 | 100 | 100 | 96  | 100 | 87  | U  |
| LV0016R | 100 | 100 | 87  | 96  | 96  | 100 | 100 | 100 | 100 | 54  | 90  | 100 | U  |
| NL0009R | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NL0010R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0002R | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 87  | 96  | 93  | U  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 87  | U  |

Table 2.12 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RU0001R | 77  | 75  | 77  | 83  | 48  | 100 | 100 | 100 | 100 | 32  | 30  | 100 | U  |
| RU0016R | 87  | 100 | 100 | 96  | 51  | 100 | 100 | 90  | 86  | 45  | 70  | 80  | U  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 66  | 100 | 100 | 93  | 100 | 76  | 35  | U  |
| SK0002R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 96  | 100 | U  |
| SK0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| SK0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| SK0006R | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | U  |

Table 2.13: Monthly arithmetic averages of ammonium in aerosols in 1999.  
(Unit:  $\mu\text{g N/m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CZ0001R | 1.53 | 0.46 | 0.37 | 0.16 | 0.59 | 0.54 | 0.60 | 0.51 | 2.19 | 0.99 | 1.01 | 0.73 | U  |
| CZ0003R | 1.36 | 0.66 | 0.77 | 0.76 | 0.81 | 0.60 | 0.66 | 0.69 | 2.07 | 1.21 | 0.86 | 0.97 | U  |
| ES0001R | 0.23 | 0.59 | 0.37 | 0.15 | 0.21 | 0.44 | 1.23 | 0.59 | 0.83 | 0.09 | 0.23 | 0.19 | U  |
| ES0003R | 0.65 | 0.67 | 0.72 | 0.41 | 0.50 | 0.29 | 0.26 | 0.26 | 0.90 | 0.83 | 0.46 | 0.42 | U  |
| ES0004R | 0.96 | 0.64 | 0.99 | 0.23 | 0.25 | 0.46 | 0.80 | 0.86 | 0.86 | 0.51 | 0.29 | 0.65 | U  |
| ES0005R | -    | -    | -    | 0.10 | 0.31 | 0.62 | 1.01 | 0.57 | 1.58 | 0.30 | 0.22 | 0.10 | U  |
| ES0007R | 0.21 | 0.79 | 0.55 | 0.23 | 0.39 | 0.58 | 0.98 | 0.61 | 0.69 | 0.09 | 0.21 | 0.27 | U  |
| ES0008R | 0.23 | 0.47 | 0.57 | 0.26 | 0.84 | 0.54 | 1.00 | 1.28 | 1.53 | 0.55 | 0.15 | 0.17 | U  |
| ES0009R | 0.18 | 0.28 | 0.30 | 0.10 | 0.20 | 0.28 | 0.56 | 0.48 | 0.63 | 0.26 | 0.14 | 0.09 | U  |
| ES0010R | 0.29 | 0.32 | 0.59 | 0.22 | 0.38 | 0.25 | 0.31 | 0.40 | 0.96 | 0.30 | 0.26 | 0.35 | U  |
| ES0011R | -    | -    | 0.13 | 0.13 | 0.20 | 0.42 | 0.97 | 0.74 | 0.77 | 0.14 | 0.23 | 0.18 | U  |
| ES0012R | 0.21 | 0.41 | 0.58 | 0.21 | 0.33 | 0.29 | 0.28 | 0.31 | 0.73 | 0.16 | 0.22 | 0.17 | U  |
| HU0002R | 3.08 | 1.69 | 1.90 | 1.36 | 1.97 | 1.27 | 1.17 | 1.65 | 0.85 | 1.35 | 2.42 | 1.89 | U  |
| IT0001R | 1.57 | 1.26 | 1.44 | 1.29 | 1.75 | 1.41 | 1.54 | 1.70 | 1.45 | 0.97 | 1.16 | 0.94 | A  |
| IT0004R | 1.71 | 3.16 | 8.24 | 2.53 | 2.94 | 1.87 | 2.44 | 0.85 | 0.97 | 1.70 | 1.01 | 1.23 | U  |
| LV0010R | 0.97 | 1.08 | 1.31 | 1.21 | -    | 1.51 | 0.82 | 0.73 | 0.89 | 0.81 | 1.24 | 0.88 | U  |
| LV0016R | 1.07 | 0.62 | 0.94 | 1.01 | 0.54 | 0.63 | 0.45 | 0.46 | 0.63 | 0.49 | 0.52 | 0.56 | U  |
| NL0009R | 0.96 | 1.27 | 1.86 | 1.78 | 1.18 | 0.84 | 1.41 | 1.00 | 2.12 | 1.00 | 0.99 | 0.65 | A  |
| NL0010R | 0.97 | 2.03 | 2.18 | 1.74 | 1.81 | 1.11 | 1.76 | 1.57 | 2.44 | 1.45 | 1.52 | 0.94 | A  |
| PL0002R | 1.95 | 1.51 | 2.40 | 1.80 | 1.01 | 2.10 | 1.58 | 1.05 | 1.28 | 1.27 | 2.22 | 1.51 | U  |
| PL0003R | 0.38 | 0.41 | 0.70 | 0.88 | 0.79 | 0.77 | 0.80 | 0.75 | 0.69 | 0.56 | 0.47 | 0.33 | U  |
| PL0004R | 1.08 | 0.66 | 1.52 | 1.02 | 0.97 | 1.47 | 0.91 | 0.72 | 1.27 | 0.97 | 1.15 | 0.47 | U  |
| RU0001R | 0.20 | 0.34 | 0.46 | 0.28 | 0.21 | 0.23 | 0.13 | 0.12 | 0.21 | 0.10 | 0.27 | 0.25 | U  |
| RU0016R | 0.55 | 0.69 | 0.84 | 0.61 | 0.33 | 0.77 | 0.34 | 0.33 | 0.63 | 0.39 | 0.46 | 0.53 | U  |
| RU0018R | -    | -    | -    | -    | -    | 0.28 | 0.52 | 0.28 | 0.40 | 0.58 | 0.59 | 0.90 | U  |

Table 2.14: Ammonium in aerosols 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CZ0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| CZ0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| ES0001R | 87  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 93  | 96  | 100 | 96  | U  |
| ES0003R | 80  | 92  | 90  | 93  | 100 | 96  | 96  | 96  | 83  | 93  | 93  | 87  | U  |
| ES0004R | 90  | 96  | 96  | 90  | 93  | 100 | 83  | 74  | 93  | 80  | 90  | 90  | U  |
| ES0005R | 0   | 0   | 0   | 13  | 35  | 86  | 100 | 100 | 80  | 77  | 96  | 90  | U  |
| ES0007R | 80  | 75  | 96  | 100 | 100 | 100 | 70  | 96  | 96  | 93  | 90  | 96  | U  |
| ES0008R | 90  | 100 | 58  | 63  | 83  | 96  | 87  | 96  | 96  | 96  | 90  | 70  | U  |
| ES0009R | 87  | 82  | 96  | 100 | 96  | 73  | 96  | 100 | 100 | 100 | 83  | 100 | U  |
| ES0010R | 100 | 89  | 96  | 100 | 93  | 96  | 87  | 87  | 93  | 100 | 86  | 96  | U  |
| ES0011R | 0   | 0   | 9   | 90  | 96  | 83  | 93  | 100 | 96  | 96  | 86  | 96  | U  |
| ES0012R | 100 | 71  | 100 | 100 | 96  | 96  | 74  | 100 | 96  | 100 | 93  | 83  | U  |
| HU0002R | 100 | 96  | 83  | 90  | 96  | 93  | 100 | 100 | 96  | 100 | 100 | 93  | U  |
| IT0001R | 45  | 85  | 100 | 100 | 100 | 100 | 74  | 100 | 100 | 100 | 90  | 100 | A  |
| IT0004R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | U  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 96  | 100 | 96  | 100 | 96  | 96  | 90  | U  |
| LV0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 76  | 100 | U  |
| NL0009R | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NL0010R | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |

Table 2.14 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| PL0002R | 87  | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 87  | 96  | 93  | U  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | U  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 87  | U  |
| RU0001R | 77  | 75  | 77  | 83  | 48  | 100 | 100 | 100 | 100 | 32  | 30  | 100 | U  |
| RU0016R | 87  | 100 | 100 | 96  | 51  | 100 | 100 | 90  | 86  | 45  | 70  | 80  | U  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 66  | 100 | 100 | 93  | 100 | 76  | 35  | U  |

Table 2.15: Monthly arithmetic averages of strong acid in aerosols in 1999.  
(Unit:  $\text{ne H}^+/\text{m}^3$ ).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ES0001R | 0.  | 0.  | 3.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0003R | 1.  | 0.  | 2.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0004R | 2.  | 0.  | 3.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0005R | -   | -   | -   | 0.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0007R | 0.  | 0.  | 2.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0008R | 0.  | 1.  | 2.  | 1.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0009R | 0.  | 1.  | 2.  | 2.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0010R | 1.  | 0.  | 2.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0011R | -   | -   | 4.  | 1.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| ES0012R | 0.  | 0.  | 3.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  | 0.  |    |
| IT0004R | 5.  | 3.  | 5.  | 3.  | 6.  | 4.  | 5.  | 5.  | 7.  | 9.  | 9.  | 9.  |    |

Table 2.16: Strong acid in aerosols 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ES0001R | 87  | 100 | 100 | 100 | 100 | 93  | 93  | 93  | 90  | 93  | 90  | 96  |    |
| ES0003R | 80  | 92  | 90  | 93  | 96  | 83  | 54  | 74  | 73  | 83  | 76  | 80  |    |
| ES0004R | 90  | 96  | 96  | 86  | 87  | 96  | 80  | 58  | 90  | 67  | 90  | 90  |    |
| ES0005R | 0   | 0   | 0   | 13  | 35  | 86  | 100 | 100 | 80  | 77  | 96  | 90  |    |
| ES0007R | 80  | 75  | 96  | 93  | 96  | 40  | 12  | 9   | 46  | 80  | 86  | 93  |    |
| ES0008R | 90  | 100 | 58  | 63  | 83  | 96  | 87  | 96  | 96  | 93  | 90  | 70  |    |
| ES0009R | 87  | 82  | 96  | 100 | 93  | 76  | 83  | 87  | 100 | 93  | 83  | 100 |    |
| ES0010R | 100 | 89  | 96  | 93  | 93  | 90  | 77  | 70  | 90  | 100 | 80  | 93  |    |
| ES0011R | 0   | 0   | 9   | 90  | 93  | 80  | 80  | 87  | 90  | 96  | 86  | 96  |    |
| ES0012R | 100 | 71  | 100 | 100 | 93  | 80  | 48  | 48  | 83  | 90  | 93  | 80  |    |
| IT0004R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 |    |

Table 2.17: Monthly arithmetic averages of suspended particulate matter in 1999.  
(Unit:  $\mu\text{g SPM}/\text{m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CH0001G | 1.2  | 2.2  | 4.2  | 5.8  | 4.9  | 4.5  | 5.2  | 5.4  | 3.3  | 5.1  | 1.8  | 1.0  |    |
| CH0002R | 20.2 | 23.5 | 27.0 | 15.5 | 18.1 | 14.8 | 18.0 | 19.9 | 19.5 | 27.8 | 25.4 | 17.9 |    |
| CH0003R | 21.1 | 23.9 | 25.5 | 15.1 | 16.3 | 13.1 | 17.1 | 15.8 | 17.9 | 22.5 | 23.6 | 15.0 |    |
| CH0004R | 5.3  | 8.5  | 14.3 | 10.8 | 15.1 | 12.3 | 14.6 | 14.5 | 16.1 | 16.5 | 8.7  | 6.4  |    |
| CH0005R | 6.1  | 8.9  | 19.2 | 10.8 | 13.3 | 11.7 | 14.4 | 13.3 | 14.0 | 16.0 | 7.7  | 4.8  |    |
| DE0001R | 20.7 | 19.4 | 25.6 | 25.2 | 18.4 | 12.5 | 15.7 | 18.3 | 25.4 | 19.3 | 18.8 | 61.5 |    |
| DE0002R | 16.6 | 18.6 | 22.9 | 24.2 | 27.0 | 13.1 | 17.2 | 17.9 | 27.5 | 14.8 | 19.3 | 10.4 |    |
| DE0003R | 4.6  | 6.5  | 7.2  | 7.5  | 11.0 | 9.9  | 11.8 | 10.4 | 10.3 | 8.7  | 4.9  | 3.4  |    |
| DE0004R | 13.5 | 15.5 | 19.6 | 14.7 | 16.5 | 13.0 | 17.1 | 12.6 | 14.9 | 13.2 | 14.7 | 8.7  |    |
| DE0005R | 6.4  | 9.6  | 13.1 | 13.8 | 12.4 | 10.6 | 11.1 | 12.6 | 12.8 | 10.1 | 7.8  | 5.9  |    |
| DE0007R | 16.8 | 12.7 | 17.3 | 16.3 | 14.9 | 9.3  | 11.8 | 12.8 | 21.7 | 13.1 | 19.1 | 9.3  |    |
| DE0008R | 10.6 | 11.5 | 14.8 | 15.2 | 17.5 | 12.3 | 14.8 | 11.0 | 16.1 | 11.2 | 9.0  | 5.9  |    |
| DE0009R | 18.6 | 16.1 | 22.6 | 19.4 | 15.2 | 12.3 | 13.5 | 14.3 | 24.6 | 13.2 | 17.8 | 17.0 |    |
| ES0001R | 15.9 | 16.4 | 14.3 | 15.1 | 20.7 | 27.4 | 41.8 | 31.2 | 21.4 | 19.9 | 11.9 | 6.7  |    |
| ES0003R | 30.4 | 30.9 | 35.8 | 35.8 | 40.2 | 39.3 | 39.2 | 41.6 | 30.2 | 36.8 | 33.6 | 28.6 |    |
| ES0004R | 27.7 | 16.3 | 30.9 | 19.5 | 32.2 | 31.5 | 31.4 | 35.5 | 26.9 | 34.9 | 20.2 | 25.1 |    |

Table 2.17 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| ES0005R | -    | -    | -    | 11.5 | 11.4 | 21.2 | 26.0 | 12.8 | 19.3 | 16.7 | 12.3 | 10.8 |    |
| ES0007R | 26.3 | 31.4 | 27.3 | 38.9 | 54.8 | 60.0 | 73.8 | 67.8 | 45.2 | 38.2 | 20.5 | 16.2 |    |
| ES0008R | 25.3 | 25.2 | 30.0 | 33.8 | 37.3 | 32.5 | 34.0 | 26.2 | 35.3 | 29.4 | 18.1 | 18.1 |    |
| ES0009R | 11.6 | 10.1 | 10.3 | 9.2  | 20.6 | 21.6 | 27.3 | 27.6 | 15.8 | 16.5 | 6.7  | 4.6  |    |
| ES0010R | 30.0 | 46.2 | 40.5 | 41.4 | 31.4 | 41.3 | 52.5 | 56.7 | 37.7 | 41.8 | 44.1 | 35.3 |    |
| ES0011R | -    | -    | 17.0 | 28.9 | 31.8 | 38.2 | 54.7 | 37.0 | 30.7 | 20.2 | 16.6 | 11.2 |    |
| ES0012R | 22.9 | 15.2 | 20.0 | 22.8 | 29.2 | 33.4 | 36.5 | 43.2 | 22.0 | 18.9 | 12.2 | 11.0 |    |
| IT0004R | 50.7 | 77.1 | 65.0 | 44.2 | 60.2 | 44.1 | 47.0 | 56.9 | 52.7 | 58.9 | 61.5 | 70.3 |    |
| SE0002R | 2.8  | 1.2  | 2.2  | 1.7  | 0.8  | 0.8  | 0.7  | 0.8  | 1.5  | 1.2  | 1.7  | 0.9  |    |
| SE0005R | 1.5  | 0.8  | 0.9  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  |    |
| SE0008R | 4.9  | 1.5  | 5.4  | 1.6  | 0.9  | 1.0  | 0.8  | 0.9  | 2.3  | 1.5  | 3.1  | 1.4  |    |
| SE0011R | 4.4  | 1.4  | 3.8  | 1.8  | 1.0  | 0.8  | 0.7  | 0.9  | 1.0  | 1.2  | 1.1  | 0.8  |    |

Table 2.18: Suspended particulate matter 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CH0001G | 93  | 78  | 100 | 100 | 74  | 100 | 100 | 100 | 100 | 93  | 100 | 87  |    |
| CH0002R | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 90  | 83  | 83  | 93  | 80  |    |
| CH0003R | 87  | 100 | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| CH0004R | 93  | 71  | 100 | 100 | 87  | 100 | 96  | 80  | 80  | 80  | 76  | 70  |    |
| CH0005R | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90  |    |
| DE0001R | 90  | 100 | 100 | 100 | 96  | 96  | 100 | 100 | 100 | 96  | 96  | 100 |    |
| DE0002R | 96  | 96  | 96  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 |    |
| DE0003R | 100 | 100 | 67  | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 90  | 96  |    |
| DE0004R | 100 | 92  | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| DE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| DE0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| DE0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| DE0009R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| ES0001R | 87  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | 93  | 90  | 83  | 93  |    |
| ES0003R | 77  | 92  | 90  | 93  | 100 | 96  | 96  | 96  | 83  | 93  | 93  | 87  |    |
| ES0004R | 90  | 96  | 93  | 86  | 93  | 96  | 83  | 74  | 93  | 80  | 83  | 90  |    |
| ES0005R | 0   | 0   | 0   | 13  | 35  | 83  | 96  | 100 | 80  | 74  | 90  | 90  |    |
| ES0007R | 77  | 75  | 96  | 100 | 100 | 100 | 70  | 96  | 100 | 93  | 90  | 93  |    |
| ES0008R | 48  | 28  | 38  | 26  | 58  | 73  | 87  | 93  | 96  | 93  | 90  | 70  |    |
| ES0009R | 87  | 82  | 93  | 100 | 87  | 60  | 93  | 100 | 96  | 96  | 80  | 93  |    |
| ES0010R | 70  | 50  | 64  | 96  | 93  | 90  | 80  | 74  | 70  | 96  | 86  | 96  |    |
| ES0011R | 0   | 0   | 6   | 90  | 93  | 80  | 90  | 100 | 90  | 96  | 80  | 93  |    |
| ES0012R | 96  | 64  | 100 | 100 | 96  | 96  | 74  | 100 | 96  | 100 | 93  | 77  |    |
| IT0004R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 |    |
| SE0002R | 93  | 100 | 96  | 96  | 93  | 93  | 100 | 96  | 90  | 93  | 93  | 54  |    |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 |    |
| SE0008R | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  |    |
| SE0011R | 100 | 100 | 96  | 96  | 100 | 96  | 100 | 100 | 100 | 90  | 93  | 74  |    |

Table 2.19: Monthly arithmetic averages of the sum of nitric acid and nitrate in aerosols in 1999.  
(Unit:  $\mu\text{g N}/\text{m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| CH0002R | 1.02 | 1.53 | 1.59 | 0.84 | 0.71 | 0.67 | 0.58 | 0.73 | 0.81 | 1.46 | 1.25 | -    | A  |
| DK0003R | 0.95 | 0.91 | 1.54 | 1.26 | 0.91 | 0.68 | 0.59 | 3.04 | 1.07 | 0.55 | 1.07 | 0.57 | A  |
| DK0005R | 1.31 | 1.48 | 2.05 | 1.99 | 1.28 | 1.15 | -    | 0.89 | 1.52 | 0.78 | 1.37 | 0.53 | A  |
| DK0008R | 0.85 | 0.85 | 1.16 | 1.38 | 0.83 | 0.73 | 0.66 | 0.69 | 1.16 | 0.49 | 0.98 | 0.50 | A  |
| ES0001R | 0.09 | 0.07 | 0.09 | 0.16 | 0.12 | 0.39 | 0.52 | 0.43 | 0.34 | 0.33 | 0.30 | 0.26 | A  |
| ES0003R | 0.11 | 0.56 | 1.22 | 0.89 | 1.09 | 0.97 | 0.73 | 0.94 | 0.77 | 0.84 | 0.70 | 0.69 | A  |
| ES0004R | 0.74 | 0.40 | 0.92 | 0.40 | 0.38 | 0.23 | 0.19 | 0.18 | 0.15 | 0.30 | 0.41 | 0.53 | A  |
| ES0005R | -    | -    | -    | 0.05 | 0.18 | 0.40 | 0.35 | 0.17 | 0.43 | 0.12 | 0.21 | 0.46 | A  |
| ES0007R | 0.35 | 0.46 | 0.42 | 0.38 | 0.44 | 0.56 | 0.64 | 0.50 | 0.60 | 0.30 | 0.41 | 0.49 | A  |

Table 2.19 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| ES0008R | 0.18 | 0.33 | 1.07 | 0.39 | 0.51 | 0.56 | 0.61 | 0.45 | 0.54 | 0.41 | 0.34 | 0.37 | A  |
| ES0009R | 0.08 | 0.11 | 0.13 | 0.13 | 0.29 | 0.24 | 0.19 | 0.32 | 0.26 | 0.20 | 0.17 | 0.19 | A  |
| ES0010R | 0.24 | 0.40 | 0.36 | 0.34 | 0.36 | 0.38 | 0.24 | 0.21 | 0.11 | 0.14 | 0.15 | 0.15 | A  |
| ES0011R | -    | -    | 0.17 | 0.19 | 0.24 | 0.31 | 0.37 | 0.16 | 0.30 | 0.18 | 0.32 | 0.23 | A  |
| ES0012R | 0.33 | 0.34 | 0.52 | 0.29 | 0.39 | 0.52 | 0.45 | 0.48 | 0.31 | 0.34 | 0.39 | 0.34 | A  |
| FI0009R | 0.49 | 0.38 | 0.68 | 0.42 | 0.37 | 0.56 | 0.34 | 0.25 | 0.52 | 0.32 | 0.44 | 0.32 | A  |
| FI0017R | 0.36 | 0.35 | 0.54 | 0.38 | 0.27 | 0.34 | 0.29 | 0.20 | 0.30 | 0.23 | 0.31 | 0.27 | A  |
| FI0022R | 0.09 | 0.08 | 0.13 | 0.07 | 0.05 | 0.08 | 0.05 | 0.03 | 0.05 | 0.05 | 0.06 | 0.07 | A  |
| FI0037R | 0.20 | 0.21 | 0.34 | 0.18 | 0.10 | 0.17 | 0.11 | 0.10 | 0.15 | 0.14 | 0.20 | 0.18 | A  |
| GB0002R | 0.18 | 0.23 | 0.27 | 0.67 | 0.45 | 0.33 | 0.22 | 0.35 | 0.44 | 0.25 | 0.15 | 0.13 | A  |
| GB0014R | 0.61 | 0.60 | 0.71 | 3.33 | -    | -    | -    | -    | -    | -    | -    | -    |    |
| LT0015R | 0.91 | 0.60 | 0.96 | 0.83 | 0.51 | 0.34 | 0.42 | 0.30 | 0.43 | 0.67 | 0.97 | 0.74 | A  |
| LV0010R | 0.07 | 0.06 | 0.03 | 0.05 | -    | 0.23 | 0.25 | 0.17 | 0.30 | 0.21 | 0.37 | 0.36 | A  |
| LV0016R | 0.28 | 0.37 | 0.69 | 0.93 | 0.39 | 0.23 | 0.21 | 0.16 | 0.28 | 0.29 | 0.22 | 0.19 | A  |
| NO0001R | 0.22 | 0.14 | 0.23 | 0.25 | 0.18 | 0.21 | 0.15 | 0.20 | 0.31 | 0.15 | 0.26 | 0.10 | A  |
| NO0008R | 0.10 | 0.10 | 0.16 | 0.25 | 0.17 | 0.17 | 0.10 | 0.13 | 0.42 | 0.08 | -    | 0.06 | A  |
| NO0015R | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | 0.04 | 0.07 | 0.08 | 0.04 | 0.05 | 0.04 | A  |
| NO0039R | 0.04 | 0.03 | 0.05 | 0.05 | 0.07 | 0.06 | 0.07 | 0.06 | 0.07 | 0.03 | 0.04 | 0.03 | A  |
| NO0041R | 0.09 | 0.08 | 0.12 | 0.10 | 0.07 | 0.10 | 0.06 | 0.04 | 0.12 | 0.05 | 0.12 | 0.06 | A  |
| NO0042R | 0.04 | 0.03 | 0.03 | 0.03 | 0.05 | 0.03 | 0.06 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | A  |
| NO0055R | 0.06 | 0.06 | 0.07 | 0.06 | 0.05 | 0.06 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 | A  |
| PL0002R | 1.25 | 1.03 | 1.05 | 0.89 | 0.54 | 0.74 | 0.45 | 0.47 | 0.63 | 0.69 | 1.33 | 0.88 | A  |
| PL0003R | 0.19 | 0.19 | 0.23 | 0.24 | 0.35 | 0.28 | 0.36 | 0.33 | 0.29 | 0.22 | 0.17 | 0.15 | A  |
| PL0004R | 0.67 | 0.42 | 0.72 | 0.64 | 0.45 | 0.60 | 0.37 | 0.38 | 0.44 | 0.49 | 0.90 | 0.43 | A  |
| PL0005R | -    | -    | -    | 0.49 | 0.23 | 0.19 | 0.20 | 0.22 | 0.35 | 0.47 | 0.81 | 0.53 | A  |
| SE0002R | 0.66 | 0.74 | 0.92 | 2.23 | 0.48 | 0.58 | 0.45 | 0.37 | 0.75 | 0.40 | 0.75 | 0.21 | A  |
| SE0005R | 0.05 | 0.05 | 0.07 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.10 | 0.04 | 0.05 | 0.04 | A  |
| SE0011R | 0.72 | 0.66 | 0.95 | 1.08 | 0.49 | 0.57 | 0.40 | 0.35 | 0.99 | 0.50 | 0.77 | 0.50 | A  |
| SE0012R | 0.28 | 0.25 | 0.58 | 1.02 | 0.21 | 0.35 | 0.23 | 0.12 | 0.31 | 0.27 | 0.29 | 0.23 | A  |
| SI0008R | 0.21 | 0.35 | 0.56 | 0.23 | 0.23 | 0.18 | 0.14 | 0.18 | 0.17 | 0.22 | 0.22 | 0.24 | A  |

Table 2.20: Sum of nitric acid and nitrate in aerosols in 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CH0002R | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 56  | 0   | A  |
| DK0003R | 100 | 100 | 100 | 93  | 100 | 100 | 87  | 90  | 100 | 100 | 96  | 96  | A  |
| DK0005R | 96  | 100 | 100 | 100 | 100 | 56  | 0   | 96  | 96  | 100 | 90  | 48  | A  |
| DK0008R | 100 | 100 | 96  | 100 | 100 | 76  | 96  | 100 | 96  | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | A  |
| ES0003R | 93  | 85  | 100 | 100 | 100 | 96  | 100 | 100 | 96  | 100 | 96  | 100 | A  |
| ES0004R | 93  | 100 | 100 | 100 | 96  | 100 | 90  | 100 | 100 | 100 | 100 | 96  | A  |
| ES0005R | 0   | 0   | 0   | 6   | 67  | 93  | 77  | 90  | 90  | 87  | 53  | 67  | A  |
| ES0007R | 96  | 78  | 90  | 96  | 100 | 96  | 77  | 90  | 96  | 93  | 93  | 96  | A  |
| ES0008R | 51  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 93  | A  |
| ES0009R | 100 | 100 | 100 | 100 | 100 | 80  | 96  | 100 | 100 | 100 | 96  | 100 | A  |
| ES0010R | 87  | 96  | 96  | 100 | 100 | 100 | 96  | 90  | 96  | 100 | 93  | 96  | A  |
| ES0011R | 0   | 0   | 6   | 83  | 100 | 90  | 100 | 100 | 96  | 96  | 100 | 100 | A  |
| ES0012R | 61  | 82  | 90  | 100 | 100 | 96  | 100 | 100 | 93  | 100 | 100 | 100 | A  |
| FI0009R | 93  | 100 | 100 | 86  | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | A  |
| FI0017R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0022R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | A  |
| FI0037R | 96  | 100 | 100 | 100 | 100 | 100 | 93  | 90  | 100 | 100 | 100 | 100 | A  |
| GB0002R | 100 | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | A  |
| GB0014R | 100 | 100 | 100 | 20  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| LT0015R | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 90  | A  |
| LV0010R | 100 | 100 | 100 | 96  | 0   | 100 | 100 | 100 | 100 | 96  | 100 | 87  | A  |
| LV0016R | 100 | 100 | 87  | 100 | 96  | 100 | 100 | 100 | 100 | 54  | 90  | 100 | A  |
| NO0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | A  |
| NO0008R | 90  | 100 | 77  | 100 | 96  | 100 | 100 | 48  | 50  | 51  | 0   | 100 | A  |
| NO0015R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0039R | 87  | 92  | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 74  | A  |
| NO0041R | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 100 | A  |

Table 2.20 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| NO0042R | 100 | 100 | 100 | 96  | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0055R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 100 | A  |
| PL0002R | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 87  | 96  | 96  | A  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 96  | 87  | A  |
| PL0005R | 0   | 0   | 0   | 86  | 100 | 96  | 96  | 96  | 100 | 96  | 96  | 96  | A  |
| SE0002R | 87  | 96  | 100 | 100 | 100 | 100 | 77  | 100 | 100 | 100 | 100 | 64  | A  |
| SE0005R | 96  | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | A  |
| SE0011R | 96  | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 70  | A  |
| SE0012R | 100 | 100 | 100 | 96  | 83  | 100 | 96  | 100 | 100 | 83  | 100 | 96  | A  |
| SI0008R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |

Table 2.21: Monthly arithmetic averages of the sum of ammonia in aerosols in 1999.  
(Unit:  $\mu\text{g N/m}^3$ ).

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug   | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|-------|------|------|------|------|----|
| CH0002R | 3.41 | 2.88 | 6.30 | 2.84 | 5.13 | 3.78 | 3.43 | 3.88  | 4.15 | 3.84 | 3.50 | -    | A  |
| DK0003R | 1.94 | 2.06 | 3.47 | 4.33 | 3.56 | 2.33 | 2.97 | 14.82 | 3.52 | 1.73 | 2.34 | 1.68 | A  |
| DK0005R | 2.02 | 2.36 | 3.67 | 5.00 | 3.50 | 3.49 | -    | 3.04  | 3.88 | 2.03 | 2.59 | 1.01 | A  |
| DK0008R | 1.16 | 1.10 | 2.19 | 2.37 | 1.27 | 1.29 | 1.08 | 1.03  | 1.94 | 0.92 | 1.45 | 0.61 | A  |
| ES0001R | 0.07 | 0.06 | 0.07 | 0.07 | 0.09 | 0.29 | 0.29 | 0.17  | 0.10 | 0.07 | 0.14 | 0.08 | A  |
| ES0003R | 0.76 | 0.97 | 1.63 | 1.23 | 1.34 | 1.21 | 1.07 | 1.55  | 1.36 | 1.30 | 0.80 | 0.66 | A  |
| ES0004R | 0.10 | 0.53 | 1.23 | 0.64 | 0.82 | 0.57 | 0.65 | 0.42  | 0.36 | 0.51 | 0.69 | 0.92 | A  |
| ES0005R | -    | -    | -    | 1.18 | 0.78 | 1.50 | 0.93 | 0.56  | 0.50 | 0.17 | 0.29 | 0.14 | A  |
| ES0007R | 0.63 | 1.58 | 2.17 | 1.19 | 1.72 | 2.37 | 2.12 | 1.73  | 2.05 | 1.37 | 1.95 | 1.73 | A  |
| ES0008R | 0.43 | 0.52 | 1.62 | 1.69 | 1.24 | 1.85 | 3.20 | 2.81  | 2.13 | 1.74 | 1.29 | 1.56 | A  |
| ES0009R | 0.24 | 0.24 | 0.54 | 0.63 | 0.94 | 1.76 | 2.28 | 2.10  | 1.33 | 0.81 | 0.69 | 0.25 | A  |
| ES0010R | 0.50 | 0.74 | 0.40 | 0.19 | 0.35 | 1.23 | 1.10 | 1.02  | 1.44 | 1.22 | 1.58 | 1.86 | A  |
| ES0011R | -    | -    | 0.39 | 0.84 | 0.75 | 1.87 | 2.88 | 1.67  | 1.11 | 1.21 | 1.23 | 0.87 | A  |
| ES0012R | 0.98 | 1.00 | 1.95 | 1.37 | 2.09 | 2.07 | 3.65 | 2.90  | 1.71 | 2.04 | 1.83 | 1.06 | A  |
| FI0009R | 0.61 | 0.42 | 1.01 | 0.73 | 0.48 | 0.73 | 0.56 | 0.36  | 0.91 | 0.49 | 0.48 | 0.27 | A  |
| FI0017R | 0.74 | 0.76 | 1.35 | 1.36 | 0.95 | 1.93 | 1.67 | 1.33  | 1.76 | 0.67 | 0.80 | 0.59 | A  |
| FI0022R | 0.16 | 0.30 | 0.38 | 0.26 | 0.09 | 0.27 | 0.18 | 0.11  | 0.28 | 0.12 | 0.15 | 0.14 | A  |
| FI0037R | 0.32 | 0.38 | 0.66 | 0.50 | 0.34 | 0.52 | 0.43 | 0.33  | 0.58 | 0.29 | 0.37 | 0.29 | A  |
| GB0002R | 0.39 | 0.54 | 0.64 | 1.25 | 0.93 | 0.83 | 0.84 | 0.99  | 1.07 | 0.52 | 0.34 | 0.28 | A  |
| GB0014R | 1.05 | 1.47 | 1.71 | 5.69 | -    | -    | -    | -     | -    | -    | -    | -    | A  |
| LT0015R | 1.79 | 1.11 | 2.03 | 1.95 | 1.18 | 1.76 | 1.38 | 1.21  | 2.06 | 1.12 | 1.66 | 1.12 | A  |
| LV0010R | 1.86 | 2.52 | 2.99 | 2.21 | -    | 4.06 | 2.57 | 1.59  | 1.78 | 1.08 | 1.61 | 1.32 | A  |
| LV0016R | 1.25 | 0.78 | 1.18 | 1.32 | 0.89 | 1.36 | 1.23 | 0.97  | 1.09 | 0.66 | 0.73 | 0.86 | A  |
| NO0001R | 0.30 | 0.18 | 0.52 | 0.60 | 0.54 | 0.60 | 1.16 | 0.48  | 0.78 | 0.47 | 0.34 | 0.15 | A  |
| NO0008R | 0.60 | 0.73 | 0.62 | 1.87 | 1.95 | 1.25 | 1.73 | 1.35  | 1.29 | 0.50 | -    | 0.71 | A  |
| NO0015R | 0.36 | 0.63 | 0.49 | 1.18 | 1.85 | 1.68 | 1.49 | 1.99  | 0.97 | 0.51 | 0.51 | 0.22 | A  |
| NO0039R | 0.13 | 0.17 | 0.24 | 0.31 | 0.38 | 0.72 | 0.58 | 1.08  | 1.08 | 0.32 | 0.21 | 0.08 | A  |
| NO0041R | 0.19 | 0.17 | 0.38 | 0.39 | 0.30 | 0.54 | 0.40 | 0.29  | 0.57 | 0.18 | 0.20 | 0.10 | A  |
| NO0042R | 0.11 | 0.15 | 0.33 | 0.18 | 0.20 | 0.16 | 0.39 | 0.30  | 0.21 | 0.08 | 0.06 | 0.10 | A  |
| NO0055R | 0.45 | 0.43 | 0.46 | 0.60 | 0.53 | 0.72 | 0.49 | 0.22  | 1.10 | 0.85 | 0.34 | 0.24 | A  |
| PL0002R | 2.59 | 2.03 | 3.86 | 3.81 | 3.63 | 3.02 | 2.75 | 2.52  | 3.25 | 1.65 | 2.83 | 2.12 | A  |
| PL0003R | 0.57 | 0.62 | 1.21 | 1.77 | 1.28 | 1.07 | 1.24 | 1.05  | 1.02 | 0.75 | 0.66 | 0.47 | A  |
| PL0004R | 1.25 | 0.71 | 1.75 | 1.42 | 1.72 | 1.89 | 1.96 | 1.33  | 2.78 | 1.12 | 1.99 | 0.81 | A  |
| PL0005R | -    | -    | -    | 1.11 | 0.77 | 0.80 | 1.23 | 1.10  | 1.20 | 1.08 | 1.67 | 1.19 | A  |
| RU0001R | 0.19 | 0.35 | 0.33 | 0.24 | 0.21 | 0.24 | 0.14 | 0.14  | 0.29 | 0.15 | 0.27 | 0.24 | A  |
| SE0002R | 0.75 | 0.66 | 1.55 | 2.85 | 0.63 | 0.82 | 0.72 | 0.60  | 1.35 | 0.68 | 1.11 | 0.16 | A  |
| SE0005R | 0.09 | 0.14 | 0.29 | 0.18 | 0.19 | 0.16 | 0.16 | 0.20  | 0.37 | 0.10 | 0.15 | 0.04 | A  |
| SE0011R | 1.04 | 0.81 | 1.86 | 1.93 | 1.28 | 1.46 | 1.30 | 1.07  | 2.17 | 0.88 | 1.26 | 0.63 | A  |
| SE0012R | 0.51 | 0.35 | 1.12 | 1.22 | 0.36 | 0.60 | 0.44 | 0.31  | 0.81 | 0.46 | 0.71 | 0.24 | A  |
| SI0008R | 0.53 | 0.58 | 1.50 | 0.81 | 1.36 | 0.97 | 0.93 | 1.32  | 1.08 | 0.70 | 0.62 | 0.46 | A  |

*Table 2.22: Sum of ammonia in aerosols in 1999. Data completeness (per cent analyzed).*

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CH0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 56  | 0   | A  |
| DK0003R | 100 | 100 | 100 | 86  | 100 | 100 | 87  | 90  | 100 | 100 | 96  | 96  | A  |
| DK0005R | 96  | 100 | 100 | 100 | 100 | 56  | 0   | 96  | 96  | 100 | 90  | 48  | A  |
| DK0008R | 100 | 100 | 96  | 96  | 100 | 76  | 100 | 100 | 96  | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 100 | 100 | 100 | 63  | 100 | 100 | 100 | 100 | 96  | 90  | A  |
| ES0003R | 93  | 96  | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 96  | 100 | A  |
| ES0004R | 61  | 100 | 93  | 100 | 96  | 96  | 100 | 100 | 100 | 96  | 96  | 100 | A  |
| ES0005R | 0   | 0   | 0   | 16  | 87  | 86  | 87  | 96  | 70  | 93  | 93  | 96  | A  |
| ES0007R | 96  | 89  | 96  | 100 | 100 | 93  | 93  | 100 | 100 | 93  | 93  | 83  | A  |
| ES0008R | 29  | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 100 | 86  | 90  | A  |
| ES0009R | 100 | 100 | 96  | 96  | 100 | 76  | 96  | 100 | 100 | 93  | 96  | 100 | A  |
| ES0010R | 83  | 96  | 96  | 83  | 100 | 100 | 90  | 80  | 93  | 100 | 93  | 93  | A  |
| ES0011R | 0   | 0   | 9   | 90  | 90  | 93  | 93  | 100 | 93  | 96  | 96  | 100 | A  |
| ES0012R | 70  | 100 | 100 | 96  | 90  | 86  | 96  | 96  | 83  | 100 | 100 | 100 | A  |
| FI0009R | 96  | 100 | 87  | 80  | 100 | 100 | 100 | 100 | 100 | 90  | 93  | 100 | A  |
| FI0017R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0022R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 93  | A  |
| FI0037R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| GB0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | A  |
| GB0014R | 100 | 100 | 100 | 20  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| LT0015R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 87  | A  |
| LV0010R | 100 | 100 | 100 | 73  | 0   | 36  | 100 | 96  | 100 | 96  | 96  | 90  | A  |
| LV0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 76  | 100 | A  |
| NO0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0008R | 96  | 100 | 77  | 100 | 96  | 100 | 100 | 41  | 50  | 51  | 0   | 100 | A  |
| NO0015R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| NO0039R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 70  | A  |
| NO0041R | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 100 | A  |
| NO0042R | 100 | 75  | 100 | 96  | 100 | 93  | 100 | 70  | 90  | 93  | 100 | 100 | A  |
| NO0055R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 96  | 100 | 100 | A  |
| PL0002R | 87  | 100 | 100 | 86  | 100 | 96  | 100 | 100 | 100 | 87  | 96  | 96  | A  |
| PL0003R | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PL0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 87  | A  |
| PL0005R | 0   | 0   | 0   | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 100 | 100 | A  |
| RU0001R | 77  | 75  | 77  | 83  | 48  | 100 | 100 | 100 | 100 | 32  | 30  | 96  | A  |
| SE0002R | 87  | 92  | 100 | 96  | 100 | 100 | 80  | 100 | 100 | 100 | 100 | 64  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0011R | 96  | 96  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 96  | 93  | 70  | A  |
| SE0012R | 100 | 100 | 100 | 96  | 83  | 100 | 100 | 100 | 100 | 96  | 100 | 96  | A  |
| SI0008R | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |

## **Annex 3**

### **Monthly weighted mean concentrations of precipitation components**



Table 3.1: Monthly precipitation amounts in 1999 (mm).

|         | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | QA |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| AT0002R | 7.0   | 24.0  | 24.7  | 43.0  | 49.3  | 65.8  | 38.1  | 78.0  | 36.6  | 20.4  | 45.6  | 20.9  |    |
| AT0004R | 49.9  | 125.5 | 51.1  | 130.1 | 138.7 | 158.6 | 141.4 | 114.8 | 76.7  | 73.5  | 73.8  | 42.3  |    |
| AT0005R | 44.2  | 6.1   | 95.9  | 85.2  | 162.2 | 114.9 | 109.8 | 187.4 | 87.2  | 54.6  | 45.9  | 53.6  |    |
| CH0002R | 32.7  | 85.8  | 46.8  | 99.4  | 95.2  | 110.4 | 87.6  | 111.8 | 132.9 | 130.0 | 52.6  | 94.0  |    |
| CH0004R | 73.4  | 149.5 | 65.6  | 141.2 | 118.9 | 105.8 | 107.0 | 85.5  | 55.4  | 166.4 | 51.5  | 101.4 |    |
| CH0005R | 26.4  | 112.8 | 54.1  | 134.5 | 206.1 | 208.8 | 133.2 | 194.0 | 84.4  | 47.0  | 83.3  | 66.7  |    |
| CZ0001R | 37.2  | 97.3  | 44.6  | 68.8  | 40.1  | 160.3 | 97.3  | 71.0  | 35.6  | 36.8  | 45.8  | 41.5  |    |
| CZ0003R | 31.7  | 61.9  | 31.8  | 18.0  | 54.9  | 60.2  | 111.5 | 24.2  | 65.1  | 33.4  | 27.4  | 45.9  |    |
| DE0001R | 42.3  | 53.0  | 79.6  | 16.6  | 27.3  | 79.3  | 41.3  | 77.3  | 101.7 | 106.6 | 45.4  | 140.6 |    |
| DE0002R | 33.1  | 45.0  | 32.8  | 24.3  | 57.2  | 35.0  | 32.7  | 59.1  | 38.4  | 21.2  | 9.2   | 77.8  |    |
| DE0003R | 167.2 | 222.4 | 90.5  | 190.8 | 191.7 | 147.3 | 96.9  | 145.4 | 145.6 | 125.9 | 140.2 | 295.6 |    |
| DE0004R | 59.8  | 58.3  | 65.0  | 51.9  | 24.0  | 63.4  | 48.9  | 42.6  | 43.6  | 55.5  | 47.2  | 156.3 |    |
| DE0005R | 69.2  | 118.5 | 85.0  | 69.7  | 98.4  | 97.1  | 70.0  | 48.1  | 94.9  | 38.4  | 39.7  | 125.0 |    |
| DE0007R | 27.0  | 40.9  | 39.6  | 35.8  | 67.5  | 52.5  | 20.0  | 26.7  | 24.7  | 41.6  | 22.1  | 92.3  |    |
| DE0008R | 98.4  | 146.4 | 105.2 | 52.5  | 50.7  | 76.1  | 121.0 | 108.1 | 35.0  | 45.2  | 168.2 | 149.2 |    |
| DE0009R | 32.9  | 19.8  | 64.0  | 22.3  | 8.7   | 74.3  | 12.3  | 48.1  | 6.1   | 25.3  | 10.1  | 50.2  |    |
| DK0003R | 55.7  | 42.0  | 73.7  | 41.8  | 31.5  | 105.6 | -     | -     | -     | -     | -     | -     |    |
| DK0005R | 46.4  | 38.9  | 75.7  | 24.4  | 39.4  | 61.0  | -     | 37.9  | 100.9 | 39.0  | 65.0  | 35.7  |    |
| DK0008R | 52.4  | 32.7  | 95.7  | 63.3  | 73.8  | 66.0  | 77.8  | 99.7  | 91.2  | 17.7  | 90.5  | 37.1  |    |
| EE0009R | 70.1  | 50.6  | 13.6  | 43.5  | 5.0   | 81.9  | 29.5  | 72.4  | 48.3  | 118.6 | 45.6  | 90.3  |    |
| EE0011R | 45.9  | 43.7  | 19.6  | 41.5  | 17.4  | 40.3  | 19.8  | 75.1  | 69.0  | 67.6  | 11.2  | 66.6  |    |
| ES0001R | 0.0   | 15.4  | 20.4  | 55.4  | 61.2  | 12.4  | 1.2   | 3.2   | 43.2  | 112.4 | 13.8  | 10.0  |    |
| ES0004R | 0.0   | 32.2  | 25.0  | 25.6  | 26.0  | 8.0   | 44.0  | 1.4   | 42.4  | 16.4  | 24.8  | 54.8  |    |
| ES0007R | 0.0   | 41.0  | 51.8  | 13.2  | 11.0  | 3.8   | 0.4   | 0.0   | 31.4  | 192.2 | 39.4  | 63.2  |    |
| ES0008R | 0.0   | 122.6 | 82.4  | 50.2  | 86.6  | 6.4   | 9.4   | 15.8  | 67.0  | 27.4  | 124.8 | 64.0  |    |
| ES0009R | 0.0   | 36.6  | 26.8  | 58.2  | 54.4  | 47.8  | 15.0  | 14.8  | 38.2  | 108.4 | 20.8  | 27.8  |    |
| ES0010R | 0.0   | 0.0   | 6.6   | 1.0   | 34.6  | 7.8   | 0.0   | 3.2   | 43.0  | 44.4  | 28.4  | 5.4   |    |
| ES0011R | 0.0   | 0.0   | 0.0   | 27.2  | 43.4  | 3.2   | 0.0   | 6.6   | 89.0  | 77.4  | 3.0   | 59.8  |    |
| ES0012R | 0.0   | 19.8  | 36.6  | 35.2  | 21.2  | 6.0   | 9.4   | 2.8   | 61.2  | 59.8  | 11.4  | 10.8  |    |
| FI0004R | 35.1  | 37.6  | 30.7  | 22.0  | 25.6  | 15.0  | 94.0  | 85.3  | 30.0  | 111.1 | 41.0  | 62.4  |    |
| FI0009R | 26.9  | 8.6   | 6.6   | 26.0  | 2.2   | 28.6  | 11.2  | 37.9  | 57.4  | 43.2  | 7.6   | 29.6  |    |
| FI0017R | 43.6  | 52.0  | 25.5  | 26.1  | 11.2  | 18.0  | 14.2  | 30.6  | 14.4  | 74.6  | 39.4  | 45.1  |    |
| FI0022R | 31.2  | 24.9  | 34.2  | 37.6  | 19.9  | 47.3  | 86.2  | 34.6  | 28.3  | 71.3  | 32.7  | 45.2  |    |
| FR0003R | 51.5  | 124.7 | 49.0  | 83.5  | 63.7  | 43.7  | 40.2  | 53.6  | 180.9 | 61.5  | 91.5  | 132.6 |    |
| FR0005R | 110.6 | 61.1  | 51.9  | 86.0  | 33.1  | 53.0  | 3.8   | 121.3 | 107.2 | 82.4  | 50.2  | 206.3 |    |
| FR0008R | 174.5 | 256.5 | 222.4 | 122.0 | 132.0 | 144.3 | 121.5 | 125.0 | 123.0 | 154.5 | 85.0  | 403.1 |    |
| FR0009R | 66.5  | -     | -     | 124.0 | 29.6  | 111.5 | 67.5  | 84.5  | 185.5 | 92.8  | 58.0  | 322.5 |    |
| FR0010R | 128.3 | 153.2 | 112.8 | 120.3 | 102.8 | 44.9  | 54.7  | 66.2  | 152.0 | 58.1  | 63.9  | 285.2 |    |
| FR0012R | 132.1 | 181.3 | 115.4 | 176.7 | 196.4 | 78.6  | 196.8 | 79.4  | 198.2 | 112.4 | 162.4 | 144.8 |    |
| FR0013R | 70.3  | 41.0  | 55.5  | 66.4  | 103.9 | 21.2  | 110.8 | 57.1  | 84.8  | 47.0  | 54.3  | 92.6  |    |
| FR0014R | 32.6  | 142.4 | 79.2  | 133.7 | 199.2 | 137.4 | 145.5 | 100.6 | 119.8 | 147.0 | 80.8  | 155.4 |    |
| GB0002R | 199.0 | 68.2  | 86.7  | 98.1  | 134.6 | 92.4  | 53.2  | 59.4  | 114.9 | 77.5  | 160.1 | 90.5  |    |
| GB0006R | 185.5 | 127.0 | 70.4  | 7.1   | -     | -     | -     | -     | -     | -     | -     | -     |    |
| GB0013R | 177.0 | 39.8  | 65.3  | 10.0  | -     | -     | -     | -     | -     | -     | -     | -     |    |
| GB0014R | 73.3  | 20.2  | 165.3 | 68.2  | 48.3  | 77.8  | 18.2  | 107.9 | 61.3  | 64.8  | 74.7  | 82.1  |    |
| GB0015R | 115.0 | 49.5  | 80.3  | 71.8  | 85.9  | 82.0  | 40.6  | 27.4  | 116.2 | 87.4  | 180.9 | 90.9  |    |
| HU0002R | 10.3  | 29.9  | 18.5  | 42.4  | 26.8  | 101.7 | 141.8 | 56.4  | 29.0  | 30.7  | 56.2  | 79.2  |    |
| IE0002R | 193.0 | 56.7  | 116.0 | 161.5 | 120.2 | 70.0  | 18.3  | 78.5  | 261.2 | 51.0  | 140.8 | 236.9 |    |
| IE0003R | 141.6 | 73.9  | 56.7  | 62.3  | 61.3  | 61.0  | 75.3  | 73.1  | 219.7 | 51.5  | 78.1  | 155.4 |    |
| IS0002R | 95.4  | 117.7 | 23.5  | 65.8  | 229.8 | 129.5 | 118.0 | 140.8 | 168.1 | 394.5 | 205.2 | 122.8 |    |
| IT0001R | 46.0  | 57.0  | 130.0 | 113.0 | 133.0 | 37.6  | 0.0   | 6.0   | 107.0 | 369.0 | 87.0  | 138.0 |    |
| IT0004R | 76.1  | 0.0   | 136.7 | 89.4  | 176.1 | 190.6 | 80.2  | 122.6 | 160.7 | 195.8 | 141.4 | 31.9  |    |
| LT0015R | 32.8  | 19.5  | 10.3  | 69.6  | 18.1  | 134.4 | 54.5  | 114.7 | 29.8  | 81.6  | 5.6   | 38.4  |    |
| LT0015R | 32.8  | 19.5  | 10.3  | 69.6  | 18.1  | 134.4 | 54.5  | 114.7 | 29.8  | 81.6  | 5.6   | 38.4  |    |
| LV0010R | 95.3  | 59.2  | 21.7  | 57.0  | 26.8  | 100.6 | 52.1  | 155.9 | 33.8  | 130.7 | 21.9  | 100.4 |    |
| LV0016R | 86.1  | 66.9  | 28.2  | 24.6  | 31.2  | 87.8  | 54.9  | 21.5  | 63.7  | 123.7 | 34.2  | 95.0  |    |
| NL0009R | 54.2  | 51.4  | 40.0  | 44.3  | 28.1  | 67.2  | 39.2  | 71.1  | 62.8  | 56.8  | 66.3  | 164.8 |    |
| NO0001R | 225.4 | 101.8 | 155.3 | 81.8  | 89.4  | 217.3 | 42.2  | 180.9 | 221.1 | 182.8 | 123.7 | 219.5 |    |
| NO0008R | 351.6 | 268.0 | 174.5 | 57.6  | 76.3  | 180.1 | 116.0 | 138.6 | 137.8 | 247.9 | 349.7 | 423.6 |    |
| NO0015R | 42.8  | 88.3  | 31.7  | 81.9  | 101.5 | 69.4  | 135.6 | 35.2  | 71.9  | 135.0 | 193.0 | 72.0  |    |
| NO0039R | 57.1  | 199.7 | 60.6  | 128.3 | 42.9  | 99.7  | 164.7 | 48.8  | 61.1  | 118.5 | 150.9 | 173.0 |    |
| NO0041R | 69.0  | 38.5  | 70.0  | 29.2  | 34.2  | 126.6 | 76.5  | 25.4  | 100.6 | 54.1  | 39.9  | 83.7  |    |
| NO0055R | 15.8  | 25.8  | 23.8  | 14.2  | 4.7   | 54.8  | 56.2  | 112.4 | 17.0  | 42.7  | 24.8  | 17.6  |    |

Table 3.1 contd.

|         | Jan   | Feb   | Mar  | Apr  | May  | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | QA |
|---------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|----|
| PL0002R | 13.6  | 27.5  | 22.6 | 91.6 | 36.3 | 186.8 | 34.1  | 101.9 | 30.1  | 43.4  | 46.1  | 33.3  |    |
| PL0003R | 102.4 | 90.9  | 57.0 | 53.3 | 57.4 | 107.2 | 127.8 | 55.1  | 88.8  | 65.2  | 55.6  | 208.0 |    |
| PL0004R | 38.8  | 36.9  | 19.6 | 71.7 | 79.1 | 49.0  | 41.3  | 194.9 | 57.7  | 86.5  | 21.9  | 106.2 |    |
| PL0005R | 25.4  | 41.1  | 20.4 | 61.7 | 80.4 | 100.6 | 66.2  | 52.2  | 26.5  | 86.6  | 38.7  | 55.0  |    |
| RU0001R | 9.1   | 17.2  | 38.9 | 8.7  | 11.6 | 20.6  | 87.6  | 159.3 | 36.1  | 81.6  | 33.0  | 32.4  |    |
| RU0013R | 15.1  | 21.1  | 16.9 | 20.4 | 43.9 | 14.5  | 72.8  | 93.7  | 34.1  | 47.5  | 29.9  | 53.8  |    |
| RU0016R | 51.9  | 44.0  | 8.1  | 24.8 | 10.4 | 101.3 | 160.1 | 44.2  | 18.2  | 72.5  | 41.3  | 73.8  |    |
| RU0018R | -     | -     | -    | -    | -    | 52.4  | 111.6 | 162.4 | 47.4  | 43.6  | 37.0  | 44.8  |    |
| SE0002R | 69.8  | 58.3  | 63.5 | 54.3 | 35.5 | 146.7 | 62.7  | 121.4 | 68.2  | 68.9  | 12.0  | 87.6  |    |
| SE0005R | 43.7  | 49.1  | 28.3 | 42.2 | 27.3 | 80.8  | 63.5  | 54.9  | 57.2  | 61.1  | 29.2  | 28.4  |    |
| SE0011R | 74.4  | 67.3  | 22.8 | 42.6 | 56.4 | 87.5  | 46.0  | 138.9 | 64.2  | 53.6  | 19.2  | 129.5 |    |
| SE0012R | 30.8  | 17.0  | 26.0 | 13.9 | 16.3 | 75.0  | 3.0   | 39.2  | 34.5  | 15.4  | 23.2  | 45.2  |    |
| SK0002R | 26.5  | 140.6 | 61.3 | 95.9 | 50.1 | 175.8 | 227.0 | 69.7  | 58.3  | 108.9 | 58.4  | 112.8 |    |
| SK0004R | 14.8  | 32.8  | 32.2 | 92.6 | 40.0 | 85.6  | 161.7 | 101.5 | 13.4  | 59.8  | 31.6  | 36.5  |    |
| SK0005R | 16.8  | 57.0  | 16.5 | 66.6 | 37.6 | 193.3 | 141.7 | 80.8  | 48.1  | 115.1 | 50.2  | 29.7  |    |
| SK0006R | 26.7  | 87.8  | 37.5 | 69.2 | 32.6 | 121.0 | 78.9  | 82.2  | 24.3  | 55.6  | 78.4  | 67.3  |    |
| TR0001R | 0.0   | 0.0   | 31.2 | 19.0 | 15.2 | 57.8  | 66.7  | 1.3   | 0.0   | 14.9  | 12.2  | 39.8  |    |
| YU0005R | 52.1  | 45.2  | 12.4 | 46.3 | 0.0  | 0.0   | 0.0   | 20.5  | 27.8  | 30.0  | 57.9  | 83.9  |    |
| YU0008R | 36.7  | 121.7 | 93.0 | 88.6 | 37.7 | 87.1  | 102.5 | 44.3  | 100.2 | 87.6  | 271.1 | 444.2 |    |

Table 3.2: Precipitation amounts 1999. Number of days with measurements.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| AT0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| AT0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| CH0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 30  |    |
| CH0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 30  |    |
| CH0005R | 31  | 28  | 31  | 30  | 27  | 30  | 31  | 31  | 30  | 31  | 22  | 27  |    |
| CZ0001R | 5   | 4   | 5   | 4   | 4   | 4   | 4   | 5   | 4   | 4   | 5   | 4   |    |
| CZ0003R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 26  |    |
| DE0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0003R | 31  | 28  | 31  | 29  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0004R | 31  | 28  | 31  | 28  | 31  | 28  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0007R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0008R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DE0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| DK0003R | 31  | 28  | 31  | 30  | 29  | 30  | 0   | 0   | 0   | 0   | 0   | 0   |    |
| DK0005R | 31  | 28  | 31  | 30  | 30  | 20  | 0   | 3   | 1   | 2   | 2   | 1   |    |
| DK0008R | 6   | 5   | 5   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 1   |    |
| EE0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| EE0011R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0001R | 26  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| ES0004R | 25  | 28  | 31  | 30  | 30  | 30  | 31  | 31  | 30  | 31  | 28  | 31  |    |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| ES0007R | 26  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 30  |    |
| ES0008R | 20  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0009R | 25  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0010R | 27  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0011R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| ES0012R | 29  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0017R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0022R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0003R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0008R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0010R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0012R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |

Table 3.2 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FR0014R | 30  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| GB0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| GB0006R | 31  | 28  | 31  | 4   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| GB0013R | 31  | 28  | 31  | 6   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |    |
| GB0014R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| GB0015R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| HU0002R | 31  | 26  | 31  | 30  | 28  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| IE0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| IE0003R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| IS0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| IT0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| IT0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| LT0015R | 4   | 4   | 5   | 4   | 4   | 5   | 4   | 4   | 5   | 4   | 4   | 4   |    |
| LV0010R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| LV0016R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| NL0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| NO0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 29  | 31  | 30  | 31  |    |
| NO0008R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| NO0015R | 28  | 26  | 30  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 29  | 31  |    |
| NO0039R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| NO0041R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| NO0055R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PL0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PL0003R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PL0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PL0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| RU0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| RU0013R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| RU0016R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 19  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| SE0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 16  | 30  | 31  |    |
| SE0005R | 5   | 4   | 5   | 5   | 6   | 5   | 5   | 6   | 5   | 5   | 5   | 5   |    |
| SE0011R | 5   | 4   | 5   | 5   | 6   | 5   | 5   | 6   | 5   | 5   | 5   | 5   |    |
| SE0012R | 5   | 4   | 5   | 5   | 6   | 5   | 5   | 6   | 5   | 5   | 5   | 5   |    |
| SK0002R | 31  | 28  | 30  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| SK0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| SK0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| SK0006R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| TR0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| YU0005R | 30  | 27  | 30  | 29  | 30  | 29  | 30  | 30  | 29  | 30  | 29  | 30  |    |
| YU0008R | 30  | 27  | 30  | 29  | 30  | 29  | 30  | 30  | 29  | 30  | 29  | 29  |    |

Table 3.3: Monthly precipitation amounts in 1999, official gauge.

|         | Jan   | Feb  | Mar   | Apr   | May  | Jun   | Jul   | Aug  | Sep   | Oct   | Nov   | Dec   | QA |
|---------|-------|------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|----|
| FI0004R | 39.4  | 47.5 | 34.2  | 22.9  | 30.5 | 17.4  | 97.5  | 92.1 | 33.4  | 125.2 | 46.8  | 70.8  |    |
| FI0009R | 72.3  | 59.3 | 40.9  | 37.5  | 4.5  | 34.4  | 12.0  | 41.4 | 55.9  | 94.0  | 20.2  | 82.3  |    |
| FI0017R | 58.6  | 80.3 | 33.6  | 31.4  | 13.0 | 22.6  | 17.5  | 37.4 | 17.3  | 85.4  | 46.1  | 65.5  |    |
| FI0022R | 37.7  | 30.7 | 44.0  | 44.1  | 26.1 | 49.9  | 99.9  | 42.4 | 31.1  | 79.0  | 55.2  | 55.8  |    |
| HU0002R | 17.9  | 69.5 | 20.6  | 54.0  | 45.0 | 120.8 | 166.3 | 69.3 | 36.2  | 34.7  | 115.2 | 103.3 |    |
| PL0005R | 24.9  | 41.6 | 19.3  | 62.8  | 78.9 | 103.1 | 67.8  | 49.2 | 26.0  | 81.3  | 38.9  | 57.7  |    |
| PT0001R | 34.0  | 0.0  | 45.4  | 40.0  | 75.1 | 0.0   | 0.0   | 51.9 | 132.0 | 76.8  | 0.0   | 73.8  |    |
| PT0003R | 128.0 | 27.5 | 112.6 | 140.7 | 96.2 | 14.7  | 15.9  | 85.4 | 359.6 | 217.3 | 84.1  | 213.8 |    |
| PT0004R | 63.5  | 10.9 | 87.4  | 25.3  | 63.5 | 0.0   | 0.0   | 13.2 | 86.4  | 123.3 | 42.6  | 43.9  |    |

*Table 3.4: Precipitation amounts 1999, official gauge. Number of days with measurements.*

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FI0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0009R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0017R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| FI0022R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| HU0002R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PL0005R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PT0001R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PT0003R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |
| PT0004R | 31  | 28  | 31  | 30  | 31  | 30  | 31  | 31  | 30  | 31  | 30  | 31  |    |

*Table 3.5: Monthly weighted averages of sulphate in precipitation in 1999. (Unit: mg S/l).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov   | Dec   | QA |
|---------|------|------|------|------|------|------|------|------|------|------|-------|-------|----|
| AT0002R | 1.91 | 0.57 | 1.32 | 0.93 | 1.06 | 0.65 | 0.62 | 0.66 | 1.08 | 0.85 | 0.67  | 0.28  | A  |
| AT0004R | 0.29 | 0.17 | 0.42 | 0.45 | 0.30 | 0.52 | 0.31 | 0.38 | 0.44 | 0.25 | 0.31  | 0.30  | A  |
| AT0005R | 0.15 | 0.32 | 0.35 | 0.34 | 0.46 | 0.41 | 0.42 | 0.34 | 0.29 | 0.27 | 0.34  | 0.14  | A  |
| CH0002R | 0.23 | 0.24 | 0.30 | 0.29 | 0.41 | 0.34 | 0.51 | 0.47 | 0.45 | 0.23 | 0.17  | 0.13  | A  |
| CH0004R | 0.17 | 0.18 | 0.24 | 0.30 | 0.36 | 0.35 | 0.38 | 0.47 | 0.43 | 0.15 | 0.19  | 0.13  | A  |
| CH0005R | 0.21 | 0.09 | 0.41 | 0.29 | 0.48 | 0.29 | 0.44 | 0.40 | 0.27 | 0.19 | 0.25  | 0.13  | A  |
| CZ0001R | 0.81 | 0.53 | 0.96 | 0.42 | 0.73 | 0.67 | 0.57 | 0.62 | 0.08 | 0.43 | 0.69  | 0.08  | A  |
| CZ0003R | 0.56 | 0.40 | 0.97 | 0.88 | 0.68 | 0.99 | 0.46 | 0.70 | 0.61 | 0.62 | 0.74  | 0.35  | A  |
| DE0001R | 1.11 | 2.12 | 0.68 | 1.45 | 1.04 | 0.69 | 1.46 | 0.61 | 0.71 | 1.14 | 1.34  | 1.34  | A  |
| DE0002R | 0.83 | 0.97 | 0.53 | 0.78 | 0.69 | 0.62 | 0.94 | 0.56 | 0.42 | 0.99 | 0.80  | 0.46  | A  |
| DE0003R | 0.39 | 0.35 | 0.63 | 0.57 | 0.31 | 0.46 | 0.54 | 0.48 | 0.40 | 0.23 | 0.37  | 0.28  | A  |
| DE0004R | 0.50 | 0.58 | 0.54 | 0.50 | 0.83 | 0.80 | 0.54 | 0.57 | 0.46 | 0.39 | 0.51  | 0.29  | A  |
| DE0005R | 0.47 | 0.67 | 0.59 | 0.66 | 0.58 | 0.46 | 0.47 | 0.47 | 0.40 | 0.96 | 0.78  | 0.39  | A  |
| DE0007R | 0.77 | 0.72 | 1.10 | 0.55 | 0.47 | 0.92 | 0.95 | 0.84 | 0.35 | 0.51 | 1.23  | 0.37  | A  |
| DE0008R | 0.53 | 0.58 | 0.64 | 0.50 | 0.87 | 0.41 | 0.45 | 0.38 | 0.38 | 0.80 | 0.61  | 0.41  | A  |
| DE0009R | 0.95 | 0.84 | 0.61 | 0.69 | 0.42 | 0.53 | 0.83 | 0.86 | 0.81 | 0.59 | 0.82  | 0.63  | A  |
| DK0003R | 0.60 | 0.96 | 0.59 | 0.40 | 0.92 | 0.25 | -    | -    | -    | -    | -     | -     | A  |
| DK0005R | 0.56 | 0.63 | 0.48 | 0.50 | 0.88 | 0.67 | -    | 0.77 | 0.56 | 0.59 | 1.05  | 0.55  | A  |
| DK0008R | 0.71 | 1.23 | 0.71 | 0.82 | 0.49 | 0.53 | 0.42 | 0.29 | 0.78 | 1.05 | 1.52  | 1.40  | A  |
| EE0009R | 0.36 | 0.38 | 1.20 | 0.92 | 1.11 | 0.53 | 0.59 | 0.33 | 0.43 | 0.46 | 0.66  | 0.32  | A  |
| EE0011R | 0.53 | 0.54 | 1.23 | 1.12 | 0.37 | 0.66 | 0.98 | 0.31 | 0.54 | 0.44 | 0.97  | 0.58  | A  |
| ES0001R | -    | 0.91 | 0.78 | 0.64 | 0.50 | 0.80 | 2.06 | 0.37 | 0.28 | 0.39 | 0.70  | 0.46  | A  |
| ES0004R | -    | 1.01 | 0.95 | 0.97 | 0.86 | 1.19 | 1.37 | 0.88 | 1.40 | 1.18 | 0.65  | 0.70  | A  |
| ES0007R | -    | 0.88 | 1.07 | 1.54 | 1.48 | 3.61 | -    | -    | 0.86 | 0.36 | 0.67  | 0.54  | A  |
| ES0008R | -    | 1.87 | 1.37 | 1.67 | 1.00 | 4.06 | 2.55 | 2.42 | 1.17 | 1.32 | 1.05  | 2.10  | A  |
| ES0009R | -    | 0.59 | 0.85 | 0.53 | 0.49 | 0.62 | 0.93 | 0.80 | 0.43 | 0.29 | 0.48  | 0.27  | A  |
| ES0010R | -    | -    | 9.49 | 8.79 | 0.98 | 1.85 | -    | 5.83 | 1.00 | 1.87 | 12.21 | 13.57 | A  |
| ES0011R | -    | -    | -    | 0.92 | 0.60 | 2.20 | -    | 0.63 | 0.43 | 0.48 | 1.05  | 0.75  | A  |
| ES0012R | -    | 1.28 | 0.66 | 0.99 | 0.82 | 2.10 | 2.12 | 1.98 | 1.01 | 0.51 | 0.77  | 0.73  | A  |
| FI0004R | 0.28 | 0.16 | 0.39 | 0.72 | 0.48 | 0.32 | 0.31 | 0.17 | 0.22 | 0.35 | 0.32  | 0.16  | A  |
| FI0009R | 0.62 | 0.40 | 3.15 | 0.64 | 0.68 | 0.66 | 0.42 | 0.29 | 0.32 | 0.49 | 0.57  | 0.45  | A  |
| FI0017R | 0.57 | 0.36 | 1.32 | 0.81 | 0.63 | 0.71 | 0.57 | 0.43 | 0.37 | 0.52 | 0.73  | 0.65  | A  |
| FI0022R | 0.17 | 0.21 | 0.48 | 0.40 | 0.30 | 0.16 | 0.14 | 0.15 | 0.17 | 0.26 | 0.15  | 0.10  | A  |
| FR0003R | 0.35 | 0.29 | 0.58 | 0.35 | 0.51 | 0.49 | 0.72 | 0.54 | 0.44 | 0.27 | 0.21  | 0.35  | A  |
| FR0005R | 1.02 | 0.49 | 0.92 | 0.65 | 1.09 | 0.66 | -    | 0.40 | 0.29 | 0.55 | 1.32  | 0.92  | A  |
| FR0008R | 0.38 | 0.46 | 0.35 | 0.52 | 0.38 | 0.25 | 0.31 | 0.33 | 0.25 | 0.26 | 0.46  | 0.21  | A  |
| FR0009R | 0.28 | -    | -    | 0.47 | 0.72 | 0.39 | 0.69 | 0.33 | 0.27 | 0.36 | 0.63  | 0.26  | A  |
| FR0010R | 0.28 | 0.30 | 0.45 | 0.49 | 0.43 | 0.44 | 0.43 | 0.38 | 0.26 | 0.29 | 0.52  | 0.18  | A  |
| FR0012R | 0.15 | 0.26 | 0.63 | 0.36 | 0.27 | 0.90 | 0.70 | 0.63 | 0.38 | 0.35 | 0.16  | 0.28  | A  |
| FR0013R | 0.47 | 0.79 | 0.80 | 0.57 | 0.40 | 0.82 | 0.51 | 0.70 | 0.34 | 0.58 | 0.35  | 0.66  | A  |
| FR0014R | 0.15 | 0.40 | 0.30 | 0.40 | 0.29 | 0.41 | 0.46 | 0.48 | 0.22 | 0.12 | 0.27  | 0.12  | A  |
| GB0002R | 0.36 | 0.40 | 0.33 | 0.40 | 0.47 | 0.42 | 0.49 | 0.71 | 0.34 | 0.64 | 0.57  | 0.30  | A  |
| GB0006R | 0.66 | 0.58 | 0.49 | 0.69 | -    | -    | -    | -    | -    | -    | -     | -     | A  |
| GB0013R | 0.39 | 0.41 | 0.46 | 0.52 | -    | -    | -    | -    | -    | -    | -     | -     | A  |
| GB0014R | 0.68 | 0.61 | 0.54 | 0.83 | 0.85 | 0.89 | 1.10 | 0.58 | 0.72 | 0.54 | 0.78  | 0.56  | A  |
| GB0015R | 0.36 | 2.00 | 0.26 | 0.32 | 0.47 | 0.24 | 0.19 | 0.38 | 0.27 | 0.49 | 0.17  | 0.09  | A  |
| HU0002R | 1.51 | 1.16 | 0.94 | 0.85 | 1.48 | 0.83 | 1.09 | 0.98 | 0.66 | 0.80 | 1.16  | 0.78  | A  |

Table 3.5 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| IE0002R | 0.33 | 0.59 | 0.44 | 0.35 | 0.44 | 0.41 | 0.56 | 0.66 | 0.22 | 0.59 | 0.42 | 0.34 | A  |
| IE0003R | 0.98 | 0.61 | 0.59 | 0.67 | 0.67 | 0.61 | 0.58 | 0.45 | 0.26 | 1.65 | 0.44 | 0.80 | A  |
| IS0002R | 6.14 | 6.38 | 6.57 | 6.80 | 6.12 | 6.14 | 5.93 | 5.64 | 5.67 | 5.57 | 6.03 | 5.82 | A  |
| IT0001R | 0.38 | 0.41 | 0.34 | 0.37 | 0.32 | 0.42 | -    | 0.44 | 0.23 | 0.12 | 0.22 | 0.21 | A  |
| IT0004R | 0.32 | -    | 0.93 | 1.55 | 1.18 | 0.80 | 0.86 | 0.88 | 5.10 | 0.59 | 0.64 | 0.29 | A  |
| LT0015R | 0.99 | 0.82 | 0.98 | 0.89 | 1.30 | 0.49 | 0.70 | 0.34 | 0.68 | 0.64 | 1.39 | 1.16 | A  |
| LV0010R | 0.48 | 0.81 | 0.81 | 0.92 | 0.75 | 0.27 | 0.28 | 0.30 | 0.31 | 0.30 | 0.50 | 0.58 | A  |
| LV0016R | 0.74 | 0.50 | 0.82 | 1.09 | 0.71 | 0.37 | 0.37 | 0.58 | 0.49 | 0.19 | 0.27 | 0.35 | A  |
| NL0009R | 0.63 | 0.93 | 0.83 | 0.69 | 1.07 | 0.51 | 0.76 | 0.51 | 0.58 | 0.75 | 0.72 | 0.64 | A  |
| NO0001R | 0.57 | 0.27 | 0.81 | 0.22 | 0.45 | 0.48 | 0.61 | 0.41 | 0.73 | 0.66 | 1.04 | 0.47 | A  |
| NO0008R | 0.46 | 0.43 | 0.42 | 0.21 | 0.49 | 0.32 | 0.27 | 0.36 | 0.61 | 0.35 | 0.61 | 0.34 | A  |
| NO0015R | 0.19 | 0.14 | 0.25 | 0.17 | 0.11 | 0.14 | 0.14 | 0.17 | 0.14 | 0.13 | 0.18 | 0.12 | A  |
| NO0039R | 0.06 | 0.34 | 0.05 | 0.21 | 0.16 | 0.12 | 0.10 | 0.15 | 0.23 | 0.13 | 0.21 | 0.19 | A  |
| NO0041R | 0.21 | 0.13 | 0.36 | 0.14 | 0.68 | 0.31 | 0.26 | 0.27 | 0.31 | 0.18 | 0.32 | 0.11 | A  |
| NO0055R | 0.24 | 0.17 | 0.23 | 0.75 | 0.84 | 0.42 | 0.12 | 0.12 | 0.23 | 0.21 | 0.11 | 0.25 | A  |
| PL0002R | 1.16 | 1.35 | 1.38 | 0.65 | 0.96 | 0.48 | 1.06 | 1.02 | 0.43 | 0.94 | 0.32 | 1.05 | A  |
| PL0003R | 0.95 | 0.80 | 1.31 | 1.07 | 1.23 | 0.59 | 0.55 | 0.83 | 0.55 | 0.94 | 0.93 | 0.74 | A  |
| PL0004R | 0.60 | 0.86 | 1.16 | 0.60 | 0.51 | 0.88 | 0.56 | 0.34 | 1.59 | 0.31 | 1.04 | 0.62 | A  |
| PL0005R | 1.04 | 0.50 | 0.88 | 0.98 | 0.32 | 0.53 | 0.60 | 0.72 | 0.68 | 0.49 | 0.55 | 0.66 | B  |
| PT0001R | 0.29 | -    | 0.21 | 0.17 | 0.49 | -    | -    | 0.30 | 0.41 | 1.37 | -    | 0.20 | A  |
| PT0003R | 0.70 | 0.68 | 0.64 | 0.60 | 0.66 | 0.95 | 0.95 | 0.55 | 0.31 | 0.55 | 0.56 | 0.66 | A  |
| PT0004R | 0.57 | 2.70 | 0.39 | 1.67 | 1.00 | -    | -    | 0.57 | 0.73 | 0.80 | 0.68 | 0.74 | A  |
| RU0001R | 0.28 | 0.32 | 0.38 | 1.65 | 0.97 | 0.43 | 0.38 | 0.43 | 0.25 | 0.24 | 0.23 | 0.12 | A  |
| RU0013R | 0.57 | 0.42 | 0.82 | 0.63 | 0.37 | 0.61 | 0.48 | 0.31 | 0.50 | 0.55 | 0.33 | 0.26 | A  |
| RU0016R | 1.21 | 2.51 | 1.68 | 2.83 | 2.10 | 0.57 | 0.59 | 0.62 | 0.70 | 0.68 | 2.34 | 1.43 | A  |
| RU0018R | -    | -    | -    | -    | -    | 0.39 | 0.56 | 0.50 | 0.56 | 0.54 | 0.47 | 0.49 | A  |
| SE0002R | 0.69 | 0.60 | 1.20 | 0.65 | 0.72 | 0.42 | 0.58 | 0.34 | 0.67 | 0.67 | 1.43 | 1.00 | A  |
| SE0005R | 0.10 | 0.14 | 0.37 | 0.25 | 0.13 | 0.19 | 0.25 | 0.14 | 0.27 | 0.10 | 0.10 | 0.05 | A  |
| SE0011R | 0.55 | 0.60 | 1.13 | 0.82 | 0.56 | 0.45 | 0.58 | 0.28 | 0.50 | 0.56 | 0.88 | 0.67 | A  |
| SE0012R | 0.40 | 0.44 | 0.87 | 0.40 | 0.40 | 0.42 | 0.63 | 0.39 | 0.77 | 0.96 | 0.70 | 0.34 | A  |
| SK0002R | 1.29 | 0.64 | 1.23 | 1.36 | 1.20 | 1.01 | 0.76 | 1.07 | 2.26 | 1.53 | 1.15 | 0.80 | A  |
| SK0004R | 0.78 | 0.57 | 0.55 | 1.30 | 1.02 | 0.88 | 0.75 | 0.97 | 1.07 | 1.09 | 0.74 | 0.51 | A  |
| SK0005R | 1.22 | 0.91 | 1.96 | 1.26 | 0.81 | 0.84 | 0.97 | 0.83 | 0.60 | 0.67 | 0.55 | 0.49 | A  |
| SK0006R | 1.16 | 1.18 | 0.95 | 0.91 | 0.99 | 0.58 | 0.77 | 0.87 | 0.62 | 0.74 | 0.57 | 0.67 | A  |
| TR0001R | -    | -    | 1.38 | 1.31 | 1.93 | 0.60 | 1.19 | 1.93 | -    | 0.90 | 1.11 | 1.16 | A  |
| YU0005R | 2.80 | 1.11 | 1.21 | 1.53 | -    | -    | -    | 0.96 | 1.11 | 2.20 | 1.20 | 1.41 | A  |
| YU0008R | 1.12 | 0.26 | 1.82 | 1.01 | 1.76 | 1.05 | 1.49 | 1.56 | 0.50 | 0.57 | 0.56 | 0.87 | A  |

Table 3.6: Sulphate in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 99  | 98  | 97  | A  |
| AT0004R | 98  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 100 | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 100 | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | A  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 95  | 99  | 99  | 99  | 98  | A  |
| DE0002R | 98  | 91  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 89  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 98  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 99  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 95  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 98  | 99  | A  |
| DK0003R | 99  | 99  | 98  | 99  | 95  | 96  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 97  | 99  | 99  | 99  | 99  | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | A  |
| EE0011R | 96  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |

Table 3.6 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ES0001R | 100 | 100 | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 96  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 96  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| ES0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0009R | 100 | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IS0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 98  | A  |
| LV0016R | 97  | 99  | 97  | 93  | 97  | 100 | 99  | 90  | 99  | 99  | 91  | 98  | A  |
| NL0009R | 98  | 81  | 97  | 98  | 72  | 99  | 99  | 93  | 93  | 98  | 99  | 99  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 96  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 95  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 92  | 94  | A  |
| PL0002R | 98  | 94  | 98  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 90  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 98  | 97  | 100 | 65  | 100 | 100 | 90  | 99  | A  |
| YU0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| YU0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |

*Table 3.7: Monthly weighted averages of sulphate in precipitation corrected for seaspray in 1999.  
(Unit: mg S/l).*

|         | Jan  | Feb   | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov   | Dec   | QA |
|---------|------|-------|------|------|------|------|------|------|------|------|-------|-------|----|
| AT0002R | 1.83 | 0.54  | 1.31 | 0.92 | 1.05 | 0.65 | 0.60 | 0.64 | 1.07 | 0.84 | 0.66  | 0.27  | A  |
| AT0004R | 0.26 | 0.14  | 0.40 | 0.44 | 0.27 | 0.50 | 0.30 | 0.37 | 0.43 | 0.24 | 0.29  | 0.28  | A  |
| AT0005R | 0.14 | 0.31  | 0.34 | 0.32 | 0.45 | 0.41 | 0.41 | 0.32 | 0.28 | 0.26 | 0.33  | 0.13  | A  |
| CH0002R | 0.22 | 0.21  | 0.29 | 0.27 | 0.40 | 0.33 | 0.50 | 0.46 | 0.44 | 0.22 | 0.16  | 0.10  | A  |
| CH0004R | 0.16 | 0.16  | 0.23 | 0.29 | 0.35 | 0.35 | 0.38 | 0.46 | 0.42 | 0.14 | 0.18  | 0.11  | A  |
| CH0005R | 0.21 | 0.08  | 0.40 | 0.28 | 0.47 | 0.29 | 0.43 | 0.39 | 0.27 | 0.18 | 0.24  | 0.12  | A  |
| CZ0001R | 0.73 | 0.48  | 0.94 | 0.41 | 0.71 | 0.67 | 0.56 | 0.61 | 0.06 | 0.39 | 0.67  | 0.07  | A  |
| DE0001R | 0.59 | 0.67  | 0.57 | 0.89 | 0.90 | 0.46 | 1.20 | 0.45 | 0.47 | 0.44 | 0.39  | 0.44  | A  |
| DE0002R | 0.72 | 0.77  | 0.50 | 0.72 | 0.66 | 0.61 | 0.92 | 0.53 | 0.41 | 0.93 | 0.72  | 0.39  | A  |
| DE0003R | 0.36 | 0.31  | 0.60 | 0.55 | 0.31 | 0.45 | 0.52 | 0.46 | 0.38 | 0.22 | 0.35  | 0.27  | A  |
| DE0004R | 0.45 | 0.52  | 0.52 | 0.47 | 0.81 | 0.78 | 0.53 | 0.55 | 0.44 | 0.36 | 0.48  | 0.26  | A  |
| DE0005R | 0.45 | 0.65  | 0.58 | 0.65 | 0.57 | 0.46 | 0.47 | 0.46 | 0.39 | 0.93 | 0.77  | 0.37  | A  |
| DE0007R | 0.69 | 0.53  | 1.07 | 0.53 | 0.45 | 0.90 | 0.92 | 0.81 | 0.33 | 0.48 | 1.19  | 0.33  | A  |
| DE0008R | 0.50 | 0.54  | 0.63 | 0.47 | 0.84 | 0.39 | 0.44 | 0.37 | 0.37 | 0.76 | 0.60  | 0.39  | A  |
| DE0009R | 0.88 | 0.73  | 0.59 | 0.65 | 0.40 | 0.51 | 0.80 | 0.76 | 0.69 | 0.51 | 0.73  | 0.43  | A  |
| DK0003R | 0.45 | 0.26  | 0.55 | 0.30 | 0.87 | 0.24 | -    | -    | -    | -    | -     | -     | A  |
| DK0005R | 0.42 | 0.32  | 0.43 | 0.44 | 0.80 | 0.63 | -    | 0.67 | 0.45 | 0.45 | 0.23  | 0.25  | A  |
| DK0008R | 0.45 | 0.51  | 0.61 | 0.54 | 0.41 | 0.43 | 0.24 | 0.22 | 0.52 | 0.75 | 0.26  | 0.35  | A  |
| EE0009R | 0.34 | 0.36  | 1.17 | 0.90 | 1.08 | 0.52 | 0.55 | 0.32 | 0.40 | 0.43 | 0.62  | 0.28  | A  |
| EE0011R | 0.46 | 0.46  | 1.17 | 1.04 | 0.34 | 0.62 | 0.94 | 0.28 | 0.51 | 0.38 | 0.68  | 0.41  | A  |
| ES0001R | -    | 0.87  | 0.74 | 0.60 | 0.47 | 0.74 | 2.00 | 0.31 | 0.26 | 0.34 | 0.63  | 0.43  | A  |
| ES0004R | -    | 0.98  | 0.89 | 0.92 | 0.80 | 1.14 | 1.33 | 0.82 | 1.34 | 1.13 | 0.57  | 0.61  | A  |
| ES0007R | -    | 0.86  | 0.97 | 1.45 | 1.40 | 3.48 | -    | -    | 0.84 | 0.32 | 0.64  | 0.49  | A  |
| ES0008R | -    | 1.32  | 0.99 | 1.00 | 0.89 | 3.21 | 2.21 | 2.16 | 0.96 | 0.89 | 0.45  | 1.02  | A  |
| ES0009R | -    | 0.55  | 0.79 | 0.49 | 0.45 | 0.57 | 0.86 | 0.74 | 0.39 | 0.27 | 0.44  | 0.24  | A  |
| ES0010R | -    | -     | 2.51 | 3.82 | 0.60 | 1.10 | -    | 3.08 | 0.60 | 0.62 | 4.34  | 6.39  | A  |
| ES0011R | -    | -     | -    | 0.77 | 0.53 | 1.92 | -    | 0.57 | 0.40 | 0.32 | 0.91  | 0.67  | A  |
| ES0012R | -    | 1.16  | 0.59 | 0.89 | 0.75 | 2.02 | 2.01 | 1.86 | 0.96 | 0.44 | 0.71  | 0.67  | A  |
| FI0004R | 0.27 | 0.15  | 0.38 | 0.71 | 0.47 | 0.32 | 0.31 | 0.17 | 0.21 | 0.34 | 0.29  | 0.15  | A  |
| FI0009R | 0.49 | 0.21  | 3.04 | 0.59 | 0.60 | 0.64 | 0.39 | 0.25 | 0.28 | 0.38 | 0.46  | 0.29  | A  |
| FI0017R | 0.55 | 0.34  | 1.29 | 0.80 | 0.60 | 0.70 | 0.55 | 0.42 | 0.36 | 0.50 | 0.67  | 0.59  | A  |
| FI0022R | 0.16 | 0.21  | 0.47 | 0.39 | 0.29 | 0.16 | 0.14 | 0.14 | 0.16 | 0.26 | 0.15  | 0.10  | A  |
| FR0003R | 0.31 | 0.24  | 0.50 | 0.30 | 0.50 | 0.43 | 0.69 | 0.50 | 0.40 | 0.23 | 0.17  | 0.08  | A  |
| FR0005R | 0.38 | 0.26  | 0.51 | 0.33 | 0.56 | 0.30 | -    | 0.26 | 0.17 | 0.17 | 0.68  | 0.12  | A  |
| FR0008R | 0.35 | 0.41  | 0.34 | 0.49 | 0.37 | 0.24 | 0.30 | 0.32 | 0.24 | 0.25 | 0.43  | 0.18  | A  |
| FR0009R | 0.23 | -     | -    | 0.43 | 0.69 | 0.37 | 0.67 | 0.30 | 0.25 | 0.33 | 0.59  | 0.23  | A  |
| FR0010R | 0.24 | 0.27  | 0.42 | 0.45 | 0.42 | 0.43 | 0.42 | 0.36 | 0.23 | 0.24 | 0.48  | 0.13  | A  |
| FR0012R | 0.14 | 0.22  | 0.61 | 0.27 | 0.26 | 0.87 | 0.68 | 0.62 | 0.37 | 0.31 | 0.12  | 0.21  | A  |
| FR0013R | 0.36 | 0.66  | 0.73 | 0.45 | 0.37 | 0.78 | 0.51 | 0.69 | 0.30 | 0.46 | 0.29  | 0.24  | A  |
| FR0014R | 0.14 | 0.35  | 0.28 | 0.38 | 0.28 | 0.39 | 0.46 | 0.48 | 0.21 | 0.11 | 0.26  | 0.10  | A  |
| GB0002R | 0.15 | 0.19  | 0.27 | 0.33 | 0.34 | 0.39 | 0.43 | 0.66 | 0.27 | 0.35 | 0.24  | 0.06  | A  |
| GB0006R | 0.09 | 0.05  | 0.15 | 0.59 | -    | -    | -    | -    | -    | -    | -     | -     | A  |
| GB0013R | 0.14 | 0.16  | 0.30 | 0.44 | -    | -    | -    | -    | -    | -    | -     | -     | A  |
| GB0014R | 0.57 | 0.43  | 0.41 | 0.75 | 0.79 | 0.85 | 1.06 | 0.43 | 0.68 | 0.43 | 0.38  | 0.34  | A  |
| GB0015R | 0.06 | 0.06  | 0.11 | 0.19 | 0.15 | 0.19 | 0.14 | 0.28 | 0.19 | 0.05 | -0.03 | -0.04 | A  |
| HU0002R | 1.39 | 0.99  | 0.74 | 0.80 | 1.44 | 0.74 | 0.95 | 0.94 | 0.62 | 0.77 | 1.08  | 0.72  | A  |
| IE0002R | 0.15 | 0.36  | 0.36 | 0.24 | 0.29 | 0.35 | 0.45 | 0.61 | 0.14 | 0.36 | 0.26  | 0.09  | A  |
| IE0003R | 0.19 | 0.15  | 0.25 | 0.24 | 0.52 | 0.39 | 0.44 | 0.33 | 0.12 | 0.00 | 0.12  | 0.01  | A  |
| IS0002R | 5.92 | 5.14  | 6.27 | 6.54 | 5.97 | 6.03 | 5.84 | 5.47 | 5.44 | 5.34 | 5.81  | 5.60  | A  |
| IT0001R | 0.07 | -0.02 | 0.11 | 0.13 | 0.19 | 0.26 | -    | 0.35 | 0.01 | 0.04 | -0.16 | 0.04  | A  |
| IT0004R | 0.28 | -     | 0.90 | 1.42 | 1.17 | 0.78 | 0.85 | 0.86 | 5.03 | 0.57 | 0.63  | 0.29  | A  |
| LT0015R | 0.60 | 0.37  | 0.84 | 0.84 | 1.24 | 0.46 | 0.65 | 0.28 | 0.62 | 0.37 | 0.71  | 0.70  | A  |
| LV0010R | 0.45 | 0.76  | 0.79 | 0.89 | 0.72 | 0.25 | 0.25 | 0.28 | 0.29 | 0.26 | 0.42  | 0.39  | A  |
| LV0016R | 0.67 | 0.45  | 0.80 | 1.04 | 0.67 | 0.36 | 0.36 | 0.57 | 0.48 | 0.18 | 0.22  | 0.30  | A  |
| NL0009R | 0.53 | 0.38  | 0.77 | 0.53 | 1.01 | 0.45 | 0.61 | 0.45 | 0.50 | 0.46 | 0.34  | 0.29  | A  |
| NO0001R | 0.40 | 0.17  | 0.75 | 0.20 | 0.40 | 0.45 | 0.57 | 0.36 | 0.70 | 0.58 | 0.68  | 0.26  | A  |
| NO0008R | 0.25 | 0.18  | 0.35 | 0.16 | 0.38 | 0.29 | 0.24 | 0.34 | 0.57 | 0.14 | 0.29  | 0.15  | A  |
| NO0015R | 0.08 | 0.05  | 0.23 | 0.13 | 0.10 | 0.13 | 0.12 | 0.15 | 0.09 | 0.06 | 0.07  | 0.05  | A  |
| NO0039R | 0.05 | 0.08  | 0.03 | 0.17 | 0.11 | 0.10 | 0.08 | 0.12 | 0.21 | 0.05 | 0.08  | 0.05  | A  |
| NO0041R | 0.20 | 0.11  | 0.35 | 0.13 | 0.66 | 0.30 | 0.26 | 0.26 | 0.30 | 0.17 | 0.29  | 0.09  | A  |
| NO0055R | 0.20 | 0.15  | 0.21 | 0.73 | 0.73 | 0.41 | 0.12 | 0.11 | 0.21 | 0.18 | 0.09  | 0.21  | A  |
| PL0002R | 1.11 | 1.31  | 1.34 | 0.63 | 0.94 | 0.47 | 1.04 | 1.00 | 0.42 | 0.91 | 0.30  | 1.01  | A  |
| PL0003R | 0.88 | 0.71  | 1.21 | 0.98 | 1.16 | 0.53 | 0.50 | 0.70 | 0.48 | 0.84 | 0.83  | 0.65  | A  |

Table 3.7 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PL0004R | 0.54 | 0.65 | 1.13 | 0.56 | 0.49 | 0.85 | 0.53 | 0.31 | 1.58 | 0.25 | 0.94 | 0.35 | A  |
| PL0005R | 0.99 | 0.45 | 0.85 | 0.96 | 0.32 | 0.51 | 0.58 | 0.68 | 0.66 | 0.44 | 0.54 | 0.62 | B  |
| PT0001R | 0.29 | -    | 0.18 | 0.14 | 0.47 | -    | -    | 0.24 | 0.39 | 1.27 | -    | 0.18 | A  |
| PT0003R | 0.51 | 0.56 | 0.30 | 0.36 | 0.54 | 0.75 | 0.90 | 0.44 | 0.20 | 0.23 | 0.47 | 0.46 | A  |
| PT0004R | 0.33 | 2.20 | 0.26 | 1.03 | 0.81 | -    | -    | 0.44 | 0.49 | 0.26 | 0.54 | 0.40 | A  |
| RU0001R | 0.19 | 0.11 | 0.33 | 1.58 | 0.83 | 0.40 | 0.36 | 0.42 | 0.23 | 0.19 | 0.16 | 0.07 | A  |
| RU0013R | 0.54 | 0.40 | 0.80 | 0.61 | 0.34 | 0.56 | 0.46 | 0.30 | 0.48 | 0.54 | 0.31 | 0.25 | A  |
| RU0016R | 0.81 | 2.31 | 1.49 | 2.71 | 1.96 | 0.53 | 0.55 | 0.53 | 0.66 | 0.60 | 0.95 | 0.98 | A  |
| RU0018R | -    | -    | -    | -    | -    | 0.37 | 0.55 | 0.50 | 0.54 | 0.51 | 0.41 | 0.47 | A  |
| SE0002R | 0.52 | 0.42 | 1.14 | 0.33 | 0.67 | 0.38 | 0.54 | 0.32 | 0.64 | 0.42 | 0.92 | 0.19 | A  |
| SE0005R | 0.08 | 0.06 | 0.35 | 0.24 | 0.12 | 0.18 | 0.25 | 0.14 | 0.26 | 0.10 | 0.10 | 0.05 | A  |
| SE0011R | 0.49 | 0.48 | 1.08 | 0.73 | 0.53 | 0.42 | 0.54 | 0.26 | 0.47 | 0.45 | 0.79 | 0.33 | A  |
| SE0012R | 0.36 | 0.41 | 0.83 | 0.39 | 0.39 | 0.38 | 0.60 | 0.37 | 0.73 | 0.91 | 0.68 | 0.21 | A  |
| SK0002R | 1.25 | 0.62 | 1.21 | 1.33 | 1.17 | 1.00 | 0.76 | 1.05 | 2.24 | 1.48 | 1.12 | 0.77 | A  |
| SK0004R | 0.77 | 0.54 | 0.53 | 1.28 | 0.98 | 0.86 | 0.73 | 0.96 | 1.05 | 1.06 | 0.72 | 0.48 | A  |
| SK0005R | 1.19 | 0.85 | 1.92 | 1.23 | 0.78 | 0.83 | 0.95 | 0.80 | 0.60 | 0.65 | 0.52 | 0.46 | A  |
| SK0006R | 1.13 | 1.15 | 0.93 | 0.89 | 0.97 | 0.57 | 0.76 | 0.85 | 0.61 | 0.73 | 0.56 | 0.65 | A  |
| TR0001R | -    | -    | 1.17 | 1.11 | 1.75 | 0.55 | 1.13 | 1.87 | -    | 0.86 | 1.03 | 1.11 | A  |
| YU0005R | 2.69 | 1.06 | 0.95 | 1.39 | -    | -    | -    | 0.92 | 1.00 | 2.12 | 1.13 | 1.25 | A  |
| YU0008R | 1.05 | 0.21 | 1.74 | 0.96 | 1.67 | 0.98 | 1.43 | 1.51 | 0.47 | 0.52 | 0.50 | 0.83 | A  |

Table 3.8: Sulphate in precipitation corrected for seaspray 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 99  | 98  | 97  | A  |
| AT0004R | 98  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 100 | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | A  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 95  | 99  | 99  | 99  | 98  | A  |
| DE0002R | 98  | 91  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 89  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 98  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 99  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 95  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 98  | 99  | A  |
| DK0003R | 99  | 99  | 98  | 99  | 95  | 96  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 97  | 99  | 99  | 99  | 99  | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | A  |
| EE0011R | 96  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 96  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 96  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| ES0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0009R | 100 | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |

Table 3.8 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IS0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 98  | A  |
| LV0016R | 97  | 99  | 93  | 93  | 97  | 100 | 99  | 90  | 98  | 99  | 91  | 98  | A  |
| NL0009R | 98  | 81  | 97  | 98  | 72  | 99  | 99  | 93  | 93  | 98  | 99  | 99  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 96  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 95  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 92  | 94  | A  |
| PL0002R | 98  | 94  | 98  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 100 | 100 | 99  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 90  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 98  | 97  | 100 | 65  | 100 | 100 | 90  | 99  | A  |
| YU0005R | 98  | 100 | 58  | 78  | 100 | 100 | 100 | 100 | 94  | 100 | 98  | 95  | A  |
| YU0008R | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 99  | 100 | A  |

Table 3.9: Monthly weighted averages of strong acid in precipitation in 1999.  
(Unit:  $\mu\text{e H/l}$ ).

|         | Jan | Feb | Mar  | Apr | May  | Jun  | Jul | Aug  | Sep | Oct | Nov | Dec  | QA |
|---------|-----|-----|------|-----|------|------|-----|------|-----|-----|-----|------|----|
| NL0009R | 0.  | -6. | -11. | -4. | -59. | -20. | 0.  | -16. | -5. | -3. | 8.  | -16. |    |

Table 3.10: Strong acid in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| NL0009R | 99  | 82  | 98  | 100 | 74  | 99  | 99  | 93  | 93  | 99  | 99  | 99  |    |

*Table 3.11: Monthly weighted averages of ammonium in precipitation in 1999.  
(Unit: mg N/l).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 2.10 | 0.29 | 1.06 | 1.00 | 0.81 | 0.43 | 1.01 | 0.54 | 0.91 | 0.61 | 0.28 | 0.08 | A  |
| AT0004R | 0.28 | 0.10 | 0.63 | 0.68 | 0.36 | 0.93 | 0.39 | 0.68 | 0.66 | 0.28 | 0.26 | 0.22 | A  |
| AT0005R | 0.10 | 0.10 | 0.25 | 0.30 | 0.33 | 0.53 | 0.33 | 0.22 | 0.20 | 0.15 | 0.18 | 0.07 | A  |
| CH0002R | 0.45 | 0.42 | 0.54 | 0.57 | 0.61 | 0.52 | 0.56 | 0.54 | 0.43 | 0.26 | 0.28 | 0.23 | A  |
| CH0004R | 0.12 | 0.14 | 0.23 | 0.30 | 0.36 | 0.38 | 0.33 | 0.47 | 0.31 | 0.10 | 0.12 | 0.08 | A  |
| CH0005R | 0.32 | 0.08 | 0.76 | 0.38 | 0.62 | 0.52 | 0.66 | 0.49 | 0.36 | 0.26 | 0.34 | 0.14 | A  |
| CZ0001R | 0.68 | 0.38 | 0.80 | 0.60 | 0.82 | 0.61 | 1.14 | 1.34 | 0.35 | 0.58 | 0.71 | 0.44 | B  |
| CZ0003R | 0.36 | 0.22 | 0.75 | 0.97 | 0.72 | 0.58 | 0.43 | 1.10 | 0.65 | 0.52 | 0.47 | 0.28 | B  |
| DE0001R | 0.59 | 0.36 | 0.57 | 1.02 | 0.82 | 0.55 | 0.71 | 0.38 | 0.41 | 0.27 | 0.37 | 0.15 | A  |
| DE0002R | 0.82 | 0.65 | 0.38 | 1.09 | 1.11 | 0.68 | 1.12 | 0.72 | 0.32 | 0.96 | 0.94 | 0.30 | A  |
| DE0003R | 0.22 | 0.22 | 0.62 | 0.73 | 0.33 | 0.77 | 0.74 | 0.43 | 0.24 | 0.08 | 0.17 | 0.13 | A  |
| DE0004R | 0.27 | 0.38 | 0.60 | 0.62 | 1.03 | 0.75 | 0.42 | 0.58 | 0.21 | 0.14 | 0.32 | 0.11 | A  |
| DE0005R | 0.49 | 0.71 | 0.82 | 0.93 | 0.87 | 0.53 | 0.43 | 0.73 | 0.37 | 1.17 | 0.91 | 0.39 | A  |
| DE0007R | 0.70 | 0.70 | 1.34 | 0.85 | 0.67 | 0.88 | 1.38 | 2.04 | 0.40 | 0.49 | 1.08 | 0.33 | A  |
| DE0008R | 0.49 | 0.42 | 0.68 | 0.68 | 1.23 | 0.53 | 0.50 | 0.42 | 0.29 | 0.80 | 0.57 | 0.26 | A  |
| DE0009R | 0.54 | 0.79 | 0.45 | 1.19 | 0.20 | 0.45 | 0.85 | 0.57 | 0.34 | 0.26 | 0.60 | 0.07 | A  |
| DK0003R | 0.40 | 0.17 | 0.61 | 0.57 | 1.06 | 0.28 | -    | -    | -    | -    | -    | -    | A  |
| DK0005R | 0.45 | 0.49 | 0.55 | 0.81 | 1.08 | 0.81 | -    | 0.54 | 0.95 | 0.52 | 0.25 | 0.27 | A  |
| DK0008R | 0.39 | 0.38 | 0.74 | 0.49 | 0.22 | 0.24 | 0.43 | 0.18 | 0.78 | 0.60 | 0.28 | 0.24 | A  |
| EE0009R | 0.12 | 0.12 | 0.46 | 0.55 | 0.40 | 0.15 | 0.13 | 0.07 | 0.05 | 0.14 | 0.21 | 0.10 | A  |
| EE0011R | 0.29 | 0.38 | 0.89 | 0.73 | 0.14 | 0.01 | 0.03 | 0.15 | 0.42 | 0.27 | 0.23 | 0.16 | A  |
| ES0001R | -    | 0.22 | 0.37 | 0.21 | 0.20 | 0.50 | 1.00 | 0.09 | 0.06 | 0.06 | 0.65 | 0.16 | A  |
| ES0004R | -    | 0.94 | 0.70 | 0.55 | 0.83 | 0.73 | 0.94 | 1.01 | 1.75 | 1.55 | 0.45 | 0.37 | A  |
| ES0007R | -    | 0.55 | 0.37 | 0.38 | 0.33 | 0.49 | -    | -    | 0.08 | 0.05 | 0.23 | 0.12 | A  |
| ES0008R | -    | 0.45 | 0.20 | 0.30 | 0.62 | 2.65 | 1.68 | 1.17 | 0.12 | 0.29 | 0.20 | 0.80 | A  |
| ES0009R | -    | 0.20 | 0.71 | 0.29 | 0.42 | 0.29 | 0.49 | 1.00 | 0.19 | 0.08 | 0.10 | 0.07 | A  |
| ES0010R | -    | -    | 1.42 | 1.47 | 0.36 | 0.49 | -    | 0.99 | 0.07 | 0.22 | 0.20 | 0.58 | A  |
| ES0011R | -    | -    | -    | 0.33 | 0.23 | 0.85 | -    | 0.32 | 0.05 | 0.09 | 0.97 | 0.35 | A  |
| ES0012R | -    | 0.72 | 0.36 | 0.41 | 0.24 | 0.33 | 0.51 | 0.29 | 0.08 | 0.13 | 0.04 | 0.07 | A  |
| FI0004R | 0.08 | 0.06 | 0.29 | 0.44 | 0.33 | 0.21 | 0.21 | 0.12 | 0.11 | 0.21 | 0.21 | 0.07 | A  |
| FI0009R | 0.35 | 0.15 | 0.99 | 0.43 | 0.29 | 0.46 | 0.23 | 0.20 | 0.22 | 0.26 | 0.23 | 0.24 | A  |
| FI0017R | 0.36 | 0.18 | 0.79 | 0.65 | 0.56 | 0.42 | 0.46 | 0.40 | 0.31 | 0.31 | 0.47 | 0.40 | A  |
| FI0022R | 0.05 | 0.07 | 0.37 | 0.11 | 0.15 | 0.05 | 0.09 | 0.08 | 0.10 | 0.10 | 0.06 | 0.01 | A  |
| FR0003R | 0.33 | 0.37 | 0.56 | 0.37 | 0.49 | 0.36 | 1.66 | 2.69 | 0.46 | 0.23 | 0.23 | 0.09 | A  |
| FR0005R | 0.48 | 0.32 | 0.53 | 0.28 | 0.72 | 0.28 | -    | 0.31 | 0.27 | 0.22 | 0.53 | 0.08 | A  |
| FR0008R | 0.34 | 0.40 | 0.42 | 0.75 | 0.41 | 0.26 | 0.28 | 0.33 | 0.18 | 0.18 | 0.35 | 0.14 | A  |
| FR0009R | 0.25 | -    | -    | 0.73 | 1.01 | 0.38 | 0.61 | 0.43 | 0.21 | 0.32 | 0.57 | 0.21 | A  |
| FR0010R | 0.30 | 0.38 | 0.73 | 0.69 | 0.42 | 0.39 | 0.40 | 0.33 | 0.15 | 0.13 | 0.40 | 0.14 | A  |
| FR0012R | 0.69 | 0.19 | 1.04 | 0.23 | 0.22 | 0.96 | 0.49 | 0.51 | 0.30 | 0.34 | 0.11 | 0.10 | A  |
| FR0013R | 0.23 | 0.39 | 0.87 | 0.32 | 0.36 | 0.35 | 0.53 | 0.58 | 0.21 | 0.54 | 0.25 | 0.11 | A  |
| FR0014R | 0.14 | 0.36 | 0.45 | 0.50 | 0.29 | 0.38 | 0.42 | 0.40 | 0.15 | 0.10 | 0.20 | 0.09 | A  |
| GB0002R | 0.13 | 0.26 | 0.34 | 0.28 | 0.33 | 0.33 | 0.29 | 0.67 | 0.13 | 0.21 | 0.10 | 0.07 | A  |
| GB0006R | 0.05 | 0.05 | 0.21 | 0.79 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0013R | 0.10 | 0.27 | 0.33 | 0.64 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0014R | 0.51 | 0.39 | 0.31 | 0.93 | 0.83 | 0.66 | 0.88 | 0.34 | 0.55 | 0.39 | 0.27 | 0.32 | A  |
| GB0015R | 0.02 | 0.04 | 0.09 | 0.09 | 0.11 | 0.11 | 0.11 | 0.24 | 0.10 | 0.04 | 0.02 | 0.02 | A  |
| HU0002R | 2.23 | 0.47 | 0.50 | 0.38 | 0.97 | 0.73 | 0.83 | 1.34 | 0.41 | 0.26 | 0.31 | 0.23 | B  |
| IE0002R | 0.17 | 0.58 | 0.35 | 0.35 | 0.35 | 0.74 | 0.61 | 0.47 | 0.10 | 0.55 | 0.13 | 0.11 | B  |
| IE0003R | 0.09 | 0.21 | 0.31 | 0.31 | 0.44 | 0.21 | 0.22 | 0.41 | 0.12 | 0.28 | 0.02 | 0.00 | B  |
| IT0001R | 0.60 | 0.47 | 0.85 | 0.48 | 1.28 | 0.64 | -    | 1.57 | 0.42 | 0.16 | 0.14 | 0.31 | A  |
| IT0004R | 0.23 | -    | 1.37 | 1.48 | 1.45 | 1.25 | 0.93 | 1.07 | 7.33 | 0.62 | 0.60 | 0.46 | A  |
| LT0015R | 0.49 | 0.37 | 0.93 | 0.83 | 1.01 | 0.55 | 0.54 | 0.20 | 0.50 | 0.27 | 0.72 | 0.23 | A  |
| LV0010R | 0.37 | 0.47 | 0.86 | 0.63 | 0.73 | 0.45 | 0.35 | 0.15 | 0.25 | 0.19 | 0.59 | 0.26 | A  |
| LV0016R | 0.40 | 0.52 | 0.58 | 0.84 | 0.54 | 0.46 | 0.42 | 0.42 | 0.58 | 0.22 | 0.41 | 0.47 | A  |
| NL0009R | 0.73 | 0.42 | 1.26 | 0.97 | 1.55 | 0.93 | 0.95 | 0.93 | 0.93 | 0.63 | 0.41 | 0.32 | A  |
| NO0001R | 0.29 | 0.11 | 0.68 | 0.22 | 0.28 | 0.35 | 0.40 | 0.31 | 0.46 | 0.40 | 0.60 | 0.16 | A  |
| NO0008R | 0.19 | 0.18 | 0.43 | 0.36 | 0.35 | 0.27 | 0.34 | 0.35 | 0.47 | 0.17 | 0.22 | 0.12 | A  |
| NO0015R | 0.19 | 0.15 | 0.20 | 0.22 | 0.18 | 0.28 | 0.18 | 0.45 | 0.19 | 0.07 | 0.13 | 0.11 | A  |
| NO0039R | 0.06 | 0.05 | 0.04 | 0.19 | 0.14 | 0.10 | 0.07 | 0.12 | 0.11 | 0.05 | 0.06 | 0.03 | A  |
| NO0041R | 0.12 | 0.10 | 0.25 | 0.14 | 0.63 | 0.23 | 0.25 | 0.16 | 0.26 | 0.08 | 0.18 | 0.06 | A  |
| NO0055R | 0.13 | 0.12 | 0.18 | 0.39 | 0.43 | 0.17 | 0.06 | 0.09 | 0.14 | 0.19 | 0.11 | 0.21 | A  |
| PL0002R | 1.18 | 1.30 | 1.27 | 0.61 | 1.25 | 0.52 | 1.03 | 0.82 | 0.39 | 0.57 | 0.20 | 0.84 | A  |
| PL0003R | 0.75 | 0.50 | 0.93 | 1.04 | 1.13 | 0.69 | 0.43 | 0.95 | 0.61 | 1.06 | 0.66 | 0.68 | A  |
| PL0004R | 0.45 | 0.53 | 0.92 | 0.61 | 0.55 | 0.91 | 0.88 | 0.36 | 1.32 | 0.15 | 0.74 | 0.16 | A  |
| PL0005R | 0.71 | 0.28 | 0.58 | 0.77 | 0.26 | 0.46 | 0.56 | 0.59 | 0.39 | 0.35 | 0.42 | 0.38 | A  |

Table 3.11 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PT0001R | 0.16 | -    | 0.03 | 0.16 | 0.21 | -    | -    | 0.35 | 0.52 | 0.37 | -    | 0.24 | A  |
| PT0003R | 0.16 | 0.27 | 0.31 | 0.12 | 0.22 | 0.20 | 0.37 | 0.14 | 0.12 | 0.10 | 0.10 | 0.07 | A  |
| PT0004R | 0.04 | 1.41 | 0.09 | 1.24 | 0.27 | -    | -    | 0.01 | 0.33 | 0.20 | 0.15 | 0.02 | A  |
| RU0001R | 0.18 | 0.77 | 0.95 | 0.62 | 0.15 | 0.19 | 0.03 | 0.02 | 0.06 | 0.12 | 0.17 | 0.17 | A  |
| RU0013R | 0.39 | 0.38 | 0.49 | 0.38 | 0.10 | 0.59 | 0.15 | 0.13 | 0.26 | 0.32 | 0.19 | 0.04 | A  |
| RU0016R | 0.20 | 0.13 | 0.39 | 0.94 | 0.98 | 0.20 | 0.40 | 0.27 | 0.61 | 0.20 | 0.27 | 0.23 | A  |
| RU0018R | -    | -    | -    | -    | -    | 0.57 | 0.78 | 0.46 | 0.21 | 0.35 | 0.28 | 0.47 | A  |
| SE0002R | 0.41 | 0.32 | 1.54 | 0.50 | 0.66 | 0.38 | 0.42 | 0.34 | 0.57 | 0.44 | 0.94 | 0.17 | A  |
| SE0005R | 0.03 | 0.03 | 0.14 | 0.13 | 0.17 | 0.18 | 0.30 | 0.05 | 0.19 | 0.04 | 0.06 | 0.03 | A  |
| SE0011R | 0.62 | 0.60 | 1.25 | 1.13 | 0.74 | 0.43 | 0.49 | 0.29 | 0.56 | 0.54 | 0.97 | 0.39 | A  |
| SE0012R | 0.26 | 0.19 | 0.65 | 0.33 | 0.23 | 0.41 | 0.51 | 0.35 | 0.61 | 0.67 | 0.43 | 0.15 | A  |
| SK0002R | 0.49 | 0.30 | 0.69 | 0.85 | 0.62 | 0.50 | 0.50 | 0.52 | 0.94 | 0.78 | 0.59 | 0.35 | A  |
| SK0004R | 0.22 | 0.24 | 0.31 | 0.68 | 0.52 | 0.35 | 0.48 | 0.56 | 0.61 | 0.48 | 0.43 | 0.17 | A  |
| SK0005R | 0.41 | 0.46 | 1.20 | 0.70 | 0.59 | 0.40 | 0.82 | 0.42 | 0.32 | 0.26 | 0.42 | 0.19 | A  |
| SK0006R | 0.32 | 0.47 | 0.61 | 0.47 | 0.49 | 0.43 | 0.49 | 0.26 | 0.34 | 0.27 | 0.20 | 0.31 | A  |
| TR0001R | -    | -    | 0.96 | 0.82 | 0.79 | 0.42 | 0.64 | 1.11 | -    | 0.27 | 0.44 | 0.53 | A  |
| YU0005R | 0.56 | 0.36 | 0.77 | 0.71 | -    | -    | -    | 0.74 | 0.71 | 1.58 | 0.42 | 0.40 | A  |
| YU0008R | 0.69 | 0.38 | 0.55 | 0.48 | 1.03 | 0.85 | 0.76 | 0.66 | 0.40 | 0.32 | 0.40 | 0.18 | A  |

Table 3.12: Ammonium in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 98  | 96  | 93  | A  |
| AT0004R | 98  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 99  | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 94  | 100 | 100 | 97  | 72  | 100 | 87  | 45  | B  |
| CZ0003R | 98  | 99  | 100 | 92  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | B  |
| DE0001R | 98  | 98  | 98  | 92  | 98  | 99  | 97  | 95  | 99  | 99  | 99  | 98  | A  |
| DE0002R | 98  | 90  | 98  | 97  | 99  | 98  | 100 | 98  | 98  | 98  | 89  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 94  | 99  | 99  | A  |
| DE0004R | 99  | 98  | 99  | 91  | 97  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 99  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 87  | 97  | 98  | 97  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 98  | 98  | 99  | 99  | 99  | 98  | 99  | 97  | 99  | A  |
| DK0003R | 99  | 97  | 98  | 96  | 97  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 98  | 97  | 72  | 95  | 90  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 95  | 96  | 86  | 100 | 92  | 99  | 94  | 100 | 97  | 98  | 98  | 99  | A  |
| EE0011R | 93  | 97  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 97  | 97  | 99  | 91  | 100 | 100 | 100 | 99  | 100 | 96  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 96  | 98  | 90  | 90  | 100 | 100 | 100 | 97  | 96  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 99  | 98  | 96  | 94  | 94  | 0   | 100 | 98  | 99  | 100 | 100 | A  |
| ES0008R | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 88  | 94  | 100 | 99  | A  |
| ES0009R | 100 | 98  | 91  | 100 | 98  | 100 | 98  | 98  | 97  | 99  | 96  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 99  | A  |
| FR0005R | 52  | 97  | 96  | 96  | 96  | 93  | 0   | 96  | 98  | 98  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 66  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 95  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 95  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 96  | 86  | 51  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

Table 3.12 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 95  | 95  | 99  | 51  | 98  | 96  | 96  | 98  | 98  | 98  | A  |
| FR0014R | 96  | 45  | 92  | 99  | 100 | 99  | 98  | 97  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 79  | B  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0016R | 97  | 99  | 97  | 97  | 100 | 100 | 98  | 100 | 100 | 100 | 97  | 100 | A  |
| NL0009R | 96  | 77  | 93  | 98  | 65  | 99  | 99  | 93  | 93  | 96  | 97  | 98  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 97  | 93  | 97  | 98  | 98  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 69  | 75  | 73  | 93  | 93  | 96  | 93  | 88  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 91  | 98  | 98  | 100 | 94  | 99  | 71  | 71  | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 78  | 96  | 97  | 92  | 92  | 25  | A  |
| PL0002R | 98  | 94  | 97  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 97  | 100 | 100 | 100 | 100 | A  |
| SE0002R | 99  | 99  | 89  | 99  | 97  | 100 | 98  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 99  | 99  | A  |
| SE0011R | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 76  | 100 | 99  | 100 | 99  | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 100 | 98  | 100 | 65  | 100 | 100 | 75  | 99  | A  |
| YU0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| YU0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |

*Table 3.13: Monthly weighted averages of nitrate in precipitation in 1999.  
(Unit: mg N/l).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 1.73 | 0.84 | 0.63 | 0.72 | 0.44 | 0.36 | 0.55 | 0.39 | 0.56 | 0.58 | 0.40 | 0.21 | A  |
| AT0004R | 0.57 | 0.33 | 0.68 | 0.53 | 0.34 | 0.46 | 0.30 | 0.32 | 0.54 | 0.42 | 0.57 | 0.52 | A  |
| AT0005R | 0.14 | 0.68 | 0.28 | 0.29 | 0.24 | 0.32 | 0.25 | 0.17 | 0.16 | 0.17 | 0.41 | 0.21 | A  |
| CH0002R | 0.24 | 0.25 | 0.39 | 0.38 | 0.33 | 0.28 | 0.33 | 0.31 | 0.34 | 0.15 | 0.23 | 0.11 | A  |
| CH0004R | 0.18 | 0.18 | 0.25 | 0.24 | 0.29 | 0.30 | 0.28 | 0.37 | 0.32 | 0.11 | 0.28 | 0.10 | A  |
| CH0005R | 0.33 | 0.24 | 0.55 | 0.34 | 0.48 | 0.28 | 0.39 | 0.32 | 0.29 | 0.19 | 0.34 | 0.19 | A  |
| CZ0001R | 0.73 | 0.63 | 0.70 | 0.36 | 0.57 | 0.39 | 0.33 | 0.35 | 0.24 | 0.65 | 0.57 | 0.21 | A  |
| CZ0003R | 0.55 | 0.52 | 0.78 | 0.90 | 0.52 | 0.41 | 0.28 | 0.54 | 0.30 | 0.75 | 0.67 | 0.49 | A  |
| DE0001R | 0.86 | 0.73 | 0.64 | 1.24 | 1.02 | 0.51 | 0.75 | 0.49 | 0.54 | 0.39 | 0.44 | 0.34 | A  |
| DE0002R | 0.97 | 0.68 | 0.77 | 0.80 | 0.72 | 0.65 | 0.87 | 0.60 | 0.50 | 1.02 | 0.91 | 0.45 | A  |
| DE0003R | 0.32 | 0.30 | 0.58 | 0.53 | 0.25 | 0.37 | 0.41 | 0.32 | 0.31 | 0.14 | 0.37 | 0.22 | A  |
| DE0004R | 0.40 | 0.49 | 0.55 | 0.43 | 0.86 | 0.57 | 0.60 | 0.44 | 0.32 | 0.31 | 0.58 | 0.24 | A  |
| DE0005R | 0.58 | 0.76 | 0.68 | 0.63 | 0.58 | 0.40 | 0.39 | 0.51 | 0.43 | 0.97 | 1.02 | 0.49 | A  |
| DE0007R | 0.90 | 0.67 | 1.12 | 0.85 | 0.49 | 0.72 | 0.88 | 0.72 | 0.39 | 0.49 | 1.01 | 0.47 | A  |
| DE0008R | 0.57 | 0.58 | 0.72 | 0.62 | 0.80 | 0.39 | 0.40 | 0.35 | 0.40 | 0.71 | 0.62 | 0.45 | A  |
| DE0009R | 0.74 | 1.04 | 0.66 | 0.67 | 0.40 | 0.43 | 0.85 | 0.69 | 0.69 | 0.53 | 0.74 | 0.42 | A  |
| DK0003R | 0.57 | 0.25 | 0.66 | 0.47 | 0.74 | 0.26 | -    | -    | -    | -    | -    | -    | A  |
| DK0005R | 0.62 | 0.45 | 0.64 | 0.59 | 0.92 | 0.87 | -    | 0.69 | 0.50 | 0.53 | 0.32 | 0.29 | A  |
| DK0008R | 0.74 | 0.69 | 0.82 | 0.51 | 0.48 | 0.38 | 0.39 | 0.18 | 0.74 | 0.90 | 0.48 | 0.45 | A  |
| EE0009R | 0.41 | 0.33 | 0.82 | 0.54 | 0.68 | 0.26 | 0.11 | 0.08 | 0.33 | 0.18 | 0.36 | 0.27 | A  |
| EE0011R | 0.60 | 0.45 | 0.91 | 0.78 | 0.14 | 0.30 | 0.44 | 0.20 | 0.19 | 0.23 | 0.56 | 0.38 | A  |
| ES0001R | -    | 0.17 | 0.32 | 0.27 | 0.27 | 0.70 | 0.92 | 0.23 | 0.13 | 0.16 | 0.54 | 0.25 | A  |
| ES0004R | -    | 0.52 | 0.49 | 0.46 | 0.77 | 1.20 | 0.82 | 0.64 | 0.83 | 1.06 | 0.44 | 0.41 | A  |
| ES0007R | -    | 0.37 | 0.51 | 0.81 | 0.94 | 2.87 | -    | -    | 0.41 | 0.19 | 0.43 | 0.27 | A  |
| ES0008R | -    | 0.72 | 0.75 | 0.46 | 0.52 | 1.62 | 1.54 | 0.91 | 0.36 | 0.42 | 0.43 | 1.09 | A  |
| ES0009R | -    | 0.20 | 0.45 | 0.28 | 0.38 | 0.34 | 1.05 | 0.71 | 0.35 | 0.20 | 0.42 | 0.22 | A  |
| ES0010R | -    | -    | 2.06 | 2.20 | 0.40 | 0.97 | -    | 3.69 | 0.38 | 0.52 | 0.62 | 1.00 | A  |
| ES0011R | -    | -    | -    | 0.36 | 0.32 | 1.53 | -    | 0.53 | 0.15 | 0.21 | 0.78 | 0.31 | A  |
| ES0012R | -    | 0.76 | 0.26 | 0.46 | 0.62 | 1.77 | 1.93 | 1.56 | 0.55 | 0.32 | 0.97 | 0.83 | A  |
| FI0004R | 0.46 | 0.25 | 0.46 | 0.56 | 0.32 | 0.26 | 0.21 | 0.14 | 0.21 | 0.20 | 0.30 | 0.27 | A  |
| FI0009R | 0.67 | 0.40 | 1.80 | 0.49 | 0.51 | 0.36 | 0.28 | 0.23 | 0.27 | 0.37 | 0.57 | 0.43 | A  |
| FI0017R | 0.46 | 0.30 | 0.78 | 0.49 | 0.67 | 0.39 | 0.34 | 0.29 | 0.34 | 0.27 | 0.47 | 0.49 | A  |
| FI0022R | 0.28 | 0.24 | 0.44 | 0.15 | 0.15 | 0.09 | 0.09 | 0.08 | 0.12 | 0.13 | 0.17 | 0.16 | A  |
| FR0003R | 0.31 | 0.17 | 0.36 | 0.23 | 0.41 | 0.28 | 0.47 | 0.28 | 0.23 | 0.15 | 0.17 | 0.09 | A  |
| FR0005R | 0.41 | 0.23 | 0.48 | 0.30 | 0.73 | 0.30 | -    | 0.22 | 0.15 | 0.16 | 0.66 | 0.10 | A  |
| FR0008R | 0.28 | 0.39 | 0.26 | 0.56 | 0.36 | 0.17 | 0.27 | 0.25 | 0.19 | 0.18 | 0.54 | 0.19 | A  |
| FR0009R | 0.32 | -    | -    | 0.47 | 0.69 | 0.23 | 0.47 | 0.27 | 0.20 | 0.23 | 0.53 | 0.22 | A  |
| FR0010R | 0.26 | 0.21 | 0.42 | 0.43 | 0.40 | 0.30 | 0.31 | 0.23 | 0.14 | 0.14 | 0.55 | 0.11 | A  |
| FR0012R | 0.07 | 0.12 | 0.41 | 0.19 | 0.19 | 0.56 | 0.33 | 0.38 | 0.23 | 0.19 | 0.12 | 0.13 | A  |
| FR0013R | 0.18 | 0.32 | 0.60 | 0.27 | 0.25 | 0.33 | 0.31 | 0.44 | 0.21 | 0.23 | 0.36 | 0.12 | A  |
| FR0014R | 0.15 | 0.46 | 0.37 | 0.36 | 0.24 | 0.29 | 0.34 | 0.28 | 0.17 | 0.09 | 0.40 | 0.12 | A  |
| GB0002R | 0.09 | 0.10 | 0.23 | 0.21 | 0.25 | 0.30 | 0.31 | 0.57 | 0.16 | 0.28 | 0.11 | 0.18 | A  |
| GB0006R | 0.04 | 0.04 | 0.07 | 0.49 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0013R | 0.08 | 0.10 | 0.19 | 0.39 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0014R | 0.41 | 0.24 | 0.29 | 0.70 | 0.68 | 0.56 | 0.60 | 0.32 | 0.46 | 0.36 | 0.23 | 0.36 | A  |
| GB0015R | 0.04 | 0.05 | 0.07 | 0.17 | 0.15 | 0.16 | 0.16 | 0.22 | 0.11 | 0.06 | 0.17 | 0.16 | A  |
| HU0002R | 0.65 | 0.71 | 0.28 | 0.35 | 0.59 | 0.27 | 0.38 | 0.42 | 0.24 | 0.26 | 0.33 | 0.34 | A  |
| IE0002R | 0.05 | 0.13 | 0.15 | 0.17 | 0.22 | 0.27 | 0.34 | 0.44 | 0.10 | 0.50 | 0.12 | 0.08 | A  |
| IE0003R | 0.05 | 0.07 | 0.06 | 0.08 | 0.22 | 0.13 | 0.11 | 0.26 | 0.07 | 0.27 | 0.05 | 0.02 | A  |
| IT0001R | 0.64 | 0.65 | 0.55 | 0.68 | 1.06 | 0.95 | -    | 0.41 | 0.36 | 0.22 | 0.23 | 0.36 | A  |
| IT0004R | 0.31 | -    | 1.08 | 1.39 | 0.89 | 0.78 | 0.69 | 0.69 | 4.28 | 0.52 | 0.56 | 0.57 | A  |
| LT0015R | 1.08 | 0.84 | 1.40 | 0.50 | 0.71 | 0.26 | 0.64 | 0.19 | 0.51 | 0.33 | 1.44 | 0.66 | A  |
| LV0010R | 0.32 | 0.51 | 0.85 | 0.80 | 0.64 | 0.48 | 0.49 | 0.28 | 0.42 | 0.31 | 0.64 | 0.63 | A  |
| LV0016R | 0.57 | 0.59 | 0.73 | 1.08 | 1.35 | 0.54 | 0.55 | 1.31 | 1.02 | 0.31 | 0.67 | 0.56 | A  |
| NL0009R | 0.48 | 0.27 | 0.83 | 0.59 | 1.00 | 0.39 | 0.55 | 0.43 | 0.48 | 0.33 | 0.31 | 0.25 | A  |
| NO0001R | 0.47 | 0.13 | 0.62 | 0.26 | 0.30 | 0.37 | 0.49 | 0.33 | 0.48 | 0.47 | 0.93 | 0.28 | A  |
| NO0008R | 0.21 | 0.17 | 0.39 | 0.19 | 0.38 | 0.26 | 0.22 | 0.30 | 0.50 | 0.14 | 0.25 | 0.13 | A  |
| NO0015R | 0.09 | 0.06 | 0.19 | 0.09 | 0.09 | 0.12 | 0.09 | 0.14 | 0.07 | 0.05 | 0.07 | 0.04 | A  |
| NO0039R | 0.08 | 0.04 | 0.07 | 0.13 | 0.13 | 0.09 | 0.06 | 0.10 | 0.12 | 0.07 | 0.06 | 0.02 | A  |
| NO0041R | 0.24 | 0.20 | 0.37 | 0.22 | 0.71 | 0.21 | 0.16 | 0.21 | 0.20 | 0.15 | 0.31 | 0.20 | A  |
| NO0055R | 0.26 | 0.20 | 0.21 | 0.23 | 0.34 | 0.14 | 0.08 | 0.04 | 0.13 | 0.10 | 0.09 | 0.26 | A  |
| PL0002R | 1.02 | 0.87 | 1.11 | 0.34 | 0.43 | 0.23 | 0.59 | 0.49 | 0.21 | 0.41 | 0.44 | 0.84 | A  |
| PL0003R | 0.88 | 0.89 | 1.50 | 1.13 | 1.28 | 0.81 | 0.50 | 1.04 | 0.79 | 1.17 | 1.14 | 1.01 | A  |
| PL0004R | 0.72 | 0.74 | 0.95 | 0.48 | 0.27 | 0.41 | 0.45 | 0.21 | 0.83 | 0.29 | 0.89 | 0.36 | A  |
| PL0005R | 1.17 | 0.48 | 0.96 | 0.60 | 0.28 | 0.32 | 0.33 | 0.50 | 0.51 | 0.36 | 0.53 | 0.67 | A  |

Table 3.13 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PT0001R | 0.25 | -    | 0.10 | 0.05 | 0.07 | -    | -    | 0.17 | 0.18 | 0.03 | -    | 0.13 | A  |
| PT0003R | 0.25 | 0.19 | 0.14 | 0.17 | 0.26 | 0.26 | 0.27 | 0.15 | 0.04 | 0.04 | 0.18 | 0.13 | A  |
| PT0004R | 0.12 | 0.71 | 0.07 | 0.24 | 0.27 | -    | -    | 0.16 | 0.22 | 0.09 | 0.18 | 0.08 | A  |
| RU0001R | 0.26 | 0.20 | 0.25 | 0.54 | 0.71 | 0.14 | 0.06 | 0.00 | 0.08 | 0.06 | 0.16 | 0.10 | A  |
| RU0013R | 0.33 | 0.35 | 0.53 | 0.23 | 0.04 | 0.26 | 0.10 | 0.05 | 0.17 | 0.21 | 0.11 | 0.11 | A  |
| RU0016R | 0.53 | 0.41 | 0.67 | 0.65 | 1.05 | 0.23 | 0.42 | 0.20 | 0.37 | 0.23 | 0.59 | 0.41 | A  |
| RU0018R | -    | -    | -    | -    | -    | 0.22 | 0.32 | 0.21 | 0.15 | 0.25 | 0.29 | 0.33 | A  |
| SE0002R | 0.64 | 0.44 | 1.29 | 0.39 | 0.51 | 0.40 | 0.40 | 0.33 | 0.62 | 0.46 | 1.25 | 0.31 | A  |
| SE0005R | 0.18 | 0.10 | 0.27 | 0.18 | 0.12 | 0.10 | 0.15 | 0.07 | 0.17 | 0.07 | 0.17 | 0.12 | A  |
| SE0011R | 0.71 | 0.58 | 1.00 | 0.70 | 0.53 | 0.34 | 0.45 | 0.26 | 0.52 | 0.57 | 0.90 | 0.48 | A  |
| SE0012R | 0.42 | 0.42 | 0.84 | 0.33 | 0.23 | 0.25 | 0.63 | 0.30 | 0.38 | 0.59 | 0.76 | 0.30 | A  |
| SK0002R | 0.65 | 0.39 | 0.73 | 0.69 | 0.39 | 0.23 | 0.25 | 0.35 | 0.62 | 0.47 | 0.46 | 0.59 | A  |
| SK0004R | 0.59 | 0.50 | 0.21 | 0.46 | 0.39 | 0.29 | 0.31 | 0.29 | 0.47 | 0.42 | 0.50 | 0.34 | A  |
| SK0005R | 1.02 | 0.60 | 1.35 | 0.61 | 0.50 | 0.23 | 0.35 | 0.26 | 0.27 | 0.33 | 0.52 | 0.49 | A  |
| SK0006R | 0.98 | 0.96 | 0.56 | 0.38 | 0.46 | 0.19 | 0.33 | 0.28 | 0.23 | 0.47 | 0.27 | 0.54 | A  |
| TR0001R | -    | -    | 0.75 | 0.60 | 0.58 | 0.23 | 0.62 | 1.11 | -    | 0.29 | 0.28 | 0.42 | A  |
| YU0005R | 0.77 | 0.82 | 1.01 | 0.92 | -    | -    | -    | 0.82 | 0.75 | 0.40 | 0.49 | 0.58 | B  |
| YU0008R | 0.74 | 0.80 | 0.77 | 0.74 | 0.78 | 0.35 | 0.43 | 0.66 | 0.63 | 0.34 | 0.52 | 0.56 | B  |

Table 3.14: Nitrate in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 99  | 98  | 97  | A  |
| AT0004R | 98  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 100 | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 100 | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | A  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 95  | 99  | 99  | 99  | 98  | A  |
| DE0002R | 98  | 91  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 89  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 98  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 99  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 95  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 98  | 99  | A  |
| DK0003R | 99  | 98  | 98  | 99  | 95  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 97  | 99  | 99  | 99  | 99  | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | A  |
| EE0011R | 96  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 96  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 100 | 96  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| ES0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0009R | 100 | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

Table 3.14 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 98  | A  |
| LV0016R | 97  | 99  | 97  | 93  | 97  | 100 | 99  | 98  | 98  | 99  | 91  | 98  | A  |
| NL0009R | 98  | 81  | 97  | 98  | 72  | 99  | 99  | 93  | 93  | 98  | 99  | 99  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 93  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 91  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 88  | 94  | A  |
| PL0002R | 98  | 94  | 98  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 98  | 97  | 100 | 65  | 100 | 100 | 90  | 99  | A  |
| YU0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | B  |
| YU0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | B  |

*Table 3.15: Monthly weighted averages of sodium in precipitation in 1999.  
(Unit: mg Na/l).*

|         | Jan  | Feb   | Mar   | Apr   | May  | Jun   | Jul  | Aug   | Sep  | Oct   | Nov   | Dec   | QA |
|---------|------|-------|-------|-------|------|-------|------|-------|------|-------|-------|-------|----|
| AT0002R | 1.02 | 0.36  | 0.17  | 0.11  | 0.11 | 0.04  | 0.08 | 0.15  | 0.11 | 0.12  | 0.05  | 0.03  | A  |
| AT0004R | 0.17 | 0.10  | 0.08  | 0.12  | 0.33 | 0.14  | 0.06 | 0.11  | 0.04 | 0.09  | 0.04  | 0.15  | A  |
| AT0005R | 0.08 | 0.13  | 0.17  | 0.14  | 0.09 | 0.09  | 0.03 | 0.32  | 0.06 | 0.11  | 0.06  | 0.02  | A  |
| CH0002R | 0.18 | 0.25  | 0.08  | 0.08  | 0.07 | 0.09  | 0.07 | 0.17  | 0.15 | 0.10  | 0.04  | 0.25  | A  |
| CH0004R | 0.14 | 0.24  | 0.05  | 0.12  | 0.08 | 0.08  | 0.04 | 0.13  | 0.16 | 0.07  | 0.07  | 0.17  | A  |
| CH0005R | 0.06 | 0.09  | 0.14  | 0.10  | 0.09 | 0.06  | 0.08 | 0.10  | 0.06 | 0.07  | 0.05  | 0.09  | A  |
| CZ0001R | 0.24 | 0.21  | 0.07  | 0.09  | 0.11 | 0.08  | 0.06 | 0.06  | 0.07 | 0.15  | 0.06  | 0.11  | A  |
| CZ0003R | 0.27 | 0.28  | 0.15  | 0.14  | 0.08 | 0.09  | 0.05 | 0.12  | 0.06 | 0.29  | 0.11  | 0.26  | A  |
| DE0001R | 6.76 | 15.39 | 1.45  | 6.65  | 1.36 | 2.47  | 3.04 | 1.80  | 2.88 | 8.46  | 11.37 | 12.94 | A  |
| DE0002R | 0.89 | 2.22  | 0.29  | 0.28  | 0.22 | 0.08  | 0.16 | 0.27  | 0.10 | 0.51  | 0.42  | 0.70  | A  |
| DE0003R | 0.26 | 0.36  | 0.30  | 0.21  | 0.04 | 0.07  | 0.09 | 0.13  | 0.16 | 0.12  | 0.15  | 0.15  | A  |
| DE0004R | 0.37 | 0.54  | 0.25  | 0.27  | 0.18 | 0.14  | 0.09 | 0.17  | 0.22 | 0.19  | 0.15  | 0.34  | A  |
| DE0005R | 0.23 | 0.22  | 0.12  | 0.06  | 0.07 | 0.06  | 0.07 | 0.07  | 0.07 | 0.39  | 0.19  | 0.21  | A  |
| DE0007R | 0.92 | 2.16  | 0.25  | 0.23  | 0.18 | 0.13  | 0.31 | 0.18  | 0.10 | 0.43  | 0.46  | 0.48  | A  |
| DE0008R | 0.31 | 0.54  | 0.22  | 0.28  | 0.21 | 0.19  | 0.09 | 0.10  | 0.12 | 0.55  | 0.20  | 0.45  | A  |
| DE0009R | 0.69 | 1.23  | 0.23  | 0.37  | 0.27 | 0.23  | 0.38 | 1.12  | 1.38 | 0.96  | 0.88  | 2.01  | A  |
| DK0003R | 1.91 | 1.60  | 0.47  | 1.02  | 0.68 | 0.19  | -    | -     | -    | -     | -     | -     | A  |
| DK0005R | 1.67 | 3.71  | 0.56  | 0.57  | 0.88 | 0.47  | -    | 1.27  | 1.34 | 1.61  | 9.73  | 3.48  | A  |
| DK0008R | 3.11 | 8.50  | 1.27  | 3.33  | 0.90 | 1.41  | 2.09 | 0.82  | 3.33 | 3.68  | 15.06 | 13.83 | A  |
| EE0009R | 0.16 | 0.22  | 0.35  | 0.19  | 0.30 | 0.09  | 0.34 | 0.08  | 0.14 | 0.25  | 0.52  | 0.32  | A  |
| EE0011R | 0.84 | 1.01  | 0.74  | 0.34  | 0.10 | 0.26  | 0.47 | 0.29  | 0.16 | 0.71  | 3.46  | 2.29  | A  |
| ES0001R | -    | 0.83  | 0.43  | 0.30  | 0.31 | 0.32  | -    | 0.14  | 0.15 | 0.54  | 0.33  | 0.45  | A  |
| ES0004R | -    | 0.38  | 0.40  | 0.50  | 0.23 | 0.38  | 0.44 | 0.12  | 0.26 | 0.30  | 0.83  | 1.03  | A  |
| ES0007R | -    | 0.25  | 0.87  | 1.11  | 0.84 | 1.02  | -    | -     | 0.23 | 0.40  | 0.32  | 0.10  | A  |
| ES0008R | -    | 5.87  | 6.02  | 8.84  | 1.48 | 10.16 | 4.10 | 2.97  | 1.83 | 5.59  | 9.06  | 15.15 | A  |
| ES0009R | -    | 0.18  | 0.41  | 0.36  | 0.20 | 0.26  | 0.37 | 0.37  | 0.18 | 0.17  | 0.36  | 0.25  | A  |
| ES0010R | -    | -     | 85.91 | 63.30 | 4.71 | 8.95  | -    | 32.88 | 4.79 | 10.35 | 39.97 | 87.82 | A  |
| ES0011R | -    | -     | -     | 0.97  | 0.64 | 3.40  | -    | 0.77  | 0.26 | 1.87  | 1.73  | 0.90  | A  |
| ES0012R | -    | 1.36  | 0.51  | 1.25  | 0.44 | 0.80  | 1.30 | 1.51  | 0.44 | 0.35  | 0.76  | 0.62  | A  |
| FI0004R | 0.07 | 0.10  | 0.07  | 0.05  | 0.12 | 0.06  | 0.07 | 0.03  | 0.04 | 0.06  | 0.24  | 0.14  | A  |
| FI0009R | 1.61 | 2.32  | 1.61  | 0.59  | 1.03 | 0.23  | 0.29 | 0.48  | 0.54 | 1.28  | 1.47  | 1.97  | A  |
| FI0017R | 0.11 | 0.15  | 0.30  | 0.10  | 0.30 | 0.08  | 0.12 | 0.07  | 0.16 | 0.19  | 0.79  | 0.66  | A  |
| FI0022R | 0.10 | 0.05  | 0.06  | 0.05  | 0.12 | 0.02  | 0.03 | 0.03  | 0.07 | 0.07  | 0.11  | 0.04  | A  |
| FR0003R | 0.53 | 0.62  | 0.94  | 0.54  | 0.18 | 0.65  | 0.32 | 0.41  | 0.43 | 0.44  | 0.40  | 3.11  | A  |
| FR0005R | 7.74 | 2.73  | 4.91  | 3.73  | 6.31 | 4.33  | -    | 1.62  | 1.53 | 4.46  | 7.63  | 9.63  | A  |
| FR0008R | 0.30 | 0.60  | 0.10  | 0.30  | 0.12 | 0.16  | 0.09 | 0.11  | 0.14 | 0.12  | 0.31  | 0.29  | A  |
| FR0009R | 0.61 | -     | -     | 0.46  | 0.39 | 0.24  | 0.18 | 0.18  | 0.25 | 0.32  | 0.50  | 0.42  | A  |
| FR0010R | 0.46 | 0.45  | 0.27  | 0.47  | 0.12 | 0.17  | 0.09 | 0.15  | 0.20 | 0.41  | 0.47  | 0.58  | A  |
| FR0012R | 0.15 | 0.42  | 0.33  | 1.11  | 0.14 | 0.37  | 0.16 | 0.19  | 0.12 | 0.41  | 0.49  | 0.79  | A  |
| FR0013R | 1.28 | 1.46  | 0.84  | 1.41  | 0.39 | 0.39  | 0.08 | 0.09  | 0.52 | 1.43  | 0.67  | 5.03  | A  |
| FR0014R | 0.15 | 0.65  | 0.13  | 0.20  | 0.06 | 0.14  | 0.05 | 0.06  | 0.15 | 0.07  | 0.09  | 0.29  | A  |
| GB0002R | 2.38 | 2.57  | 0.64  | 0.81  | 1.51 | 0.24  | 0.43 | 0.34  | 0.95 | 3.39  | 3.98  | 3.14  | A  |
| GB0006R | 6.80 | 6.38  | 3.71  | 0.79  | -    | -     | -    | -     | -    | -     | -     | -     | A  |
| GB0013R | 3.00 | 2.81  | 1.83  | 0.99  | -    | -     | -    | -     | -    | -     | -     | -     | A  |
| GB0014R | 1.16 | 1.96  | 1.46  | 0.91  | 0.75 | 0.46  | 0.26 | 1.73  | 0.55 | 1.29  | 4.81  | 2.61  | A  |
| GB0015R | 3.56 | 23.15 | 1.80  | 1.52  | 3.83 | 0.58  | 0.61 | 1.18  | 1.02 | 5.25  | 3.28  | 2.31  | A  |
| HU0002R | 1.46 | 0.56  | 0.51  | 0.42  | 0.37 | 0.38  | 0.36 | 0.36  | 0.39 | 0.44  | 0.92  | 0.67  | B  |
| IE0002R | 2.10 | 2.84  | 0.91  | 1.31  | 1.82 | 0.74  | 1.33 | 0.62  | 0.95 | 3.05  | 2.03  | 3.26  | B  |
| IE0003R | 9.64 | 5.64  | 3.98  | 5.25  | 1.88 | 2.68  | 1.68 | 1.44  | 1.67 | 23.24 | 3.87  | 10.02 | B  |
| IS0002R | 2.64 | 14.71 | 3.59  | 3.14  | 1.72 | 1.22  | 1.12 | 2.09  | 2.72 | 2.72  | 2.64  | 2.62  | A  |
| IT0001R | 3.61 | 5.09  | 2.78  | 2.85  | 1.55 | 1.99  | -    | 8.14  | 2.58 | 0.23  | 4.59  | 2.09  | A  |
| IT0004R | 0.31 | -     | 0.28  | 1.65  | 0.17 | 0.23  | 0.12 | 0.20  | 0.61 | 0.24  | 0.10  | 0.11  | A  |
| LT0015R | 4.69 | 5.39  | 1.74  | 0.69  | 0.66 | 0.37  | 0.56 | 0.75  | 0.67 | 3.23  | 8.14  | 5.48  | A  |
| LV0010R | 0.34 | 0.56  | 0.34  | 0.23  | 0.19 | 0.09  | 0.22 | 0.24  | 0.12 | 0.44  | 0.76  | 2.85  | A  |
| LV0016R | 0.44 | 0.45  | 0.28  | 0.62  | 0.55 | 0.04  | 0.07 | 0.17  | 0.12 | 0.09  | 0.16  | 0.47  | A  |
| NL0009R | 1.25 | 6.05  | 0.74  | 1.96  | 0.34 | 0.65  | 1.74 | 0.73  | 0.94 | 3.55  | 4.50  | 3.96  | A  |
| NO0001R | 2.06 | 1.21  | 0.82  | 0.24  | 0.62 | 0.33  | 0.41 | 0.60  | 0.35 | 0.97  | 4.38  | 2.83  | A  |
| NO0008R | 2.38 | 3.17  | 0.86  | 0.62  | 1.45 | 0.29  | 0.35 | 0.22  | 0.51 | 2.77  | 3.93  | 2.61  | A  |
| NO0015R | 1.26 | 1.08  | 0.13  | 0.51  | 0.09 | 0.15  | 0.20 | 0.27  | 0.67 | 0.85  | 1.30  | 0.91  | A  |
| NO0039R | 0.19 | 3.09  | 0.18  | 0.51  | 0.55 | 0.21  | 0.17 | 0.32  | 0.13 | 0.98  | 1.64  | 1.78  | A  |
| NO0041R | 0.23 | 0.23  | 0.10  | 0.10  | 0.21 | 0.11  | 0.10 | 0.14  | 0.15 | 0.16  | 0.36  | 0.32  | A  |
| NO0055R | 0.49 | 0.38  | 0.29  | 0.31  | 1.24 | 0.17  | 0.12 | 0.09  | 0.26 | 0.34  | 0.29  | 0.78  | A  |
| PL0002R | 0.38 | 0.67  | 0.26  | 0.08  | 0.07 | 0.03  | 0.12 | 0.08  | 0.04 | 0.20  | 0.09  | 0.41  | A  |
| PL0003R | 0.54 | 0.39  | 0.67  | 0.57  | 0.60 | 0.46  | 0.21 | 0.52  | 0.24 | 0.52  | 0.50  | 0.54  | A  |

Table 3.15 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov   | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|-------|------|----|
| PL0004R | 0.77 | 2.52 | 0.34 | 0.33 | 0.24 | 0.28 | 0.44 | 0.39 | 0.13 | 0.72 | 1.17  | 3.47 | A  |
| PL0005R | 0.41 | 0.58 | 0.15 | 0.26 | 0.07 | 0.07 | 0.30 | 0.22 | 0.11 | 0.30 | 0.09  | 0.45 | A  |
| PT0001R | 0.06 | -    | 0.13 | 0.20 | 0.13 | -    | -    | 0.15 | 0.07 | 1.10 | -     | 0.13 | B  |
| PT0003R | 2.32 | 1.46 | 4.25 | 3.09 | 1.45 | 2.90 | 0.60 | 1.44 | 1.31 | 3.95 | 1.17  | 2.40 | B  |
| PT0004R | 3.15 | 6.86 | 1.94 | 7.64 | 2.44 | -    | -    | 1.60 | 2.89 | 6.52 | 1.80  | 4.59 | B  |
| RU0001R | 1.16 | 2.58 | 2.29 | 0.99 | 1.94 | 0.64 | 0.33 | 0.16 | 0.27 | 0.79 | 0.84  | 0.65 | B  |
| RU0013R | 0.41 | 0.29 | 0.27 | 0.28 | 0.28 | 0.34 | 0.34 | 0.16 | 0.22 | 0.29 | 0.31  | 0.20 | B  |
| RU0016R | 4.71 | 3.62 | 2.51 | 2.56 | 1.72 | 0.31 | 0.59 | 1.66 | 0.50 | 0.98 | 17.59 | 4.93 | B  |
| RU0018R | -    | -    | -    | -    | -    | 0.25 | 0.19 | 0.08 | 0.09 | 0.31 | 0.60  | 0.24 | B  |
| SE0002R | 2.14 | 2.21 | 0.69 | 4.78 | 0.56 | 0.56 | 0.44 | 0.20 | 0.42 | 2.97 | 6.19  | 9.86 | A  |
| SE0005R | 0.04 | 0.92 | 0.06 | 0.07 | 0.10 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.08  | 0.10 | A  |
| SE0011R | 0.76 | 1.46 | 0.63 | 1.26 | 0.32 | 0.15 | 0.38 | 0.19 | 0.36 | 1.35 | 1.15  | 4.13 | A  |
| SE0012R | 0.33 | 0.43 | 0.49 | 0.14 | 0.16 | 0.08 | 0.33 | 0.19 | 0.17 | 0.47 | 0.41  | 1.60 | A  |
| SK0002R | 0.52 | 0.32 | 0.26 | 0.28 | 0.20 | 0.11 | 0.07 | 0.17 | 0.26 | 0.56 | 0.39  | 0.42 | A  |
| SK0004R | 0.17 | 0.31 | 0.24 | 0.19 | 0.28 | 0.12 | 0.07 | 0.15 | 0.21 | 0.30 | 0.18  | 0.22 | A  |
| SK0005R | 0.38 | 0.83 | 0.44 | 0.27 | 0.34 | 0.12 | 0.09 | 0.29 | 0.07 | 0.16 | 0.24  | 0.35 | A  |
| SK0006R | 0.33 | 0.34 | 0.23 | 0.22 | 0.18 | 0.12 | 0.17 | 0.15 | 0.17 | 0.16 | 0.16  | 0.30 | A  |
| TR0001R | -    | -    | 0.82 | 0.69 | 1.04 | 0.48 | 0.72 | 0.77 | -    | 0.45 | 1.51  | 0.64 | A  |
| YU0005R | 0.68 | 0.55 | 2.29 | 0.61 | -    | -    | -    | 0.49 | 0.89 | 0.99 | 0.72  | 0.65 | A  |
| YU0008R | 0.93 | 0.51 | 0.98 | 0.70 | 1.10 | 0.80 | 0.67 | 0.68 | 0.33 | 0.47 | 0.58  | 1.33 | A  |

Table 3.16: Sodium in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 98  | 96  | 93  | A  |
| AT0004R | 98  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 99  | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 84  | 99  | 99  | 94  | 100 | 100 | 97  | 72  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 99  | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | A  |
| DE0001R | 98  | 97  | 98  | 92  | 98  | 99  | 97  | 99  | 99  | 98  | 99  | 98  | A  |
| DE0002R | 97  | 90  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 85  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 99  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 97  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 97  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 97  | 97  | 98  | 100 | 98  | 99  | 99  | 99  | 98  | 97  | 96  | 99  | A  |
| DK0003R | 98  | 97  | 95  | 92  | 97  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 96  | 95  | 98  | 77  | 95  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 96  | 76  | 100 | 58  | 99  | 100 | 98  | 100 | 96  | 92  | 90  | A  |
| EE0011R | 96  | 97  | 100 | 96  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | A  |
| ES0001R | 100 | 100 | 95  | 94  | 97  | 91  | 0   | 100 | 100 | 98  | 100 | 94  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 92  | 98  | 90  | 90  | 100 | 100 | 98  | 97  | 95  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 99  | 94  | 90  | 94  | 68  | 0   | 100 | 98  | 99  | 100 | 100 | A  |
| ES0008R | 100 | 100 | 98  | 92  | 79  | 100 | 100 | 53  | 88  | 94  | 100 | 75  | A  |
| ES0009R | 100 | 98  | 89  | 98  | 97  | 100 | 98  | 95  | 97  | 98  | 93  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| ES0012R | 100 | 97  | 100 | 98  | 100 | 90  | 100 | 100 | 100 | 100 | 92  | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |

Table 3.16 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 84  | 99  | 90  | 93  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 98  | 99  | 99  | 82  | 100 | 99  | 63  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 98  | 73  | 98  | 99  | 86  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 87  | 99  | 100 | 100 | 100 | 45  | 79  | B  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IS0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | A  |
| LV0016R | 97  | 99  | 93  | 93  | 97  | 100 | 76  | 98  | 98  | 99  | 61  | 90  | A  |
| NL0009R | 96  | 73  | 90  | 96  | 51  | 95  | 99  | 91  | 93  | 96  | 95  | 97  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 96  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 95  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 92  | 25  | A  |
| PL0002R | 83  | 94  | 98  | 99  | 98  | 99  | 99  | 99  | 89  | 97  | 98  | 99  | A  |
| PL0003R | 99  | 94  | 95  | 98  | 90  | 99  | 85  | 99  | 99  | 98  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 94  | 98  | 95  | 89  | 100 | 99  | 74  | 98  | 99  | 92  | 100 | 97  | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | B  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0002R | 100 | 99  | 89  | 99  | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 92  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 100 | 98  | 98  | 100 | 65  | 100 | 100 | 90  | 97  | A  |
| YU0005R | 98  | 96  | 58  | 65  | 100 | 100 | 100 | 100 | 94  | 97  | 98  | 95  | A  |
| YU0008R | 100 | 99  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 95  | 99  | 100 | A  |

*Table 3.17: Monthly weighted averages of magnesium in precipitation in 1999.  
(Unit: mg Mg/l).*

|         | Jan   | Feb   | Mar    | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec    | QA |
|---------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----|
| AT0002R | 0.152 | 0.115 | 0.117  | 0.095 | 0.086 | 0.041 | 0.043 | 0.041 | 0.055 | 0.073 | 0.052 | 0.017  | A  |
| AT0004R | 0.203 | 0.128 | 0.121  | 0.119 | 0.079 | 0.077 | 0.025 | 0.035 | 0.026 | 0.031 | 0.023 | 0.034  | A  |
| AT0005R | 0.020 | 0.148 | 0.054  | 0.044 | 0.057 | 0.053 | 0.029 | 0.028 | 0.027 | 0.032 | 0.028 | 0.020  | A  |
| CH0002R | 0.031 | 0.035 | 0.023  | 0.026 | 0.041 | 0.036 | 0.034 | 0.065 | 0.028 | 0.029 | 0.013 | 0.068  | B  |
| CH0004R | 0.020 | 0.032 | 0.011  | 0.034 | 0.035 | 0.031 | 0.016 | 0.037 | 0.033 | 0.015 | 0.011 | 0.032  | B  |
| CH0005R | 0.011 | 0.008 | 0.028  | 0.030 | 0.026 | 0.019 | 0.022 | 0.027 | 0.013 | 0.026 | 0.014 | 0.020  | B  |
| CZ0001R | 0.115 | 0.059 | 0.038  | 0.030 | 0.059 | 0.030 | 0.038 | 0.052 | 0.023 | 0.067 | 0.027 | 0.025  | A  |
| CZ0003R | 0.046 | 0.034 | 0.060  | 0.061 | 0.039 | 0.029 | 0.020 | 0.085 | 0.020 | 0.082 | 0.039 | 0.047  | A  |
| DE0001R | 0.814 | 2.260 | 0.262  | 0.836 | 0.280 | 0.375 | 0.449 | 0.396 | 0.341 | 0.882 | 1.500 | 0.882  | A  |
| DE0002R | 0.182 | 0.379 | 0.146  | 0.127 | 0.123 | 0.101 | 0.199 | 0.138 | 0.112 | 0.291 | 0.249 | 0.176  | A  |
| DE0003R | 0.082 | 0.077 | 0.029  | 0.045 | 0.035 | 0.054 | 0.035 | 0.036 | 0.049 | 0.058 | 0.035 | 0.028  | A  |
| DE0004R | 0.144 | 0.130 | 0.063  | 0.083 | 0.132 | 0.079 | 0.073 | 0.081 | 0.051 | 0.058 | 0.047 | 0.068  | A  |
| DE0005R | 0.075 | 0.050 | 0.019  | 0.024 | 0.047 | 0.032 | 0.027 | 0.023 | 0.026 | 0.065 | 0.023 | 0.032  | A  |
| DE0007R | 0.111 | 0.275 | 0.062  | 0.055 | 0.045 | 0.049 | 0.079 | 0.088 | 0.031 | 0.057 | 0.078 | 0.075  | A  |
| DE0008R | 0.032 | 0.066 | 0.026  | 0.042 | 0.047 | 0.041 | 0.017 | 0.011 | 0.022 | 0.042 | 0.021 | 0.031  | A  |
| DE0009R | 0.274 | 0.302 | 0.056  | 0.102 | 0.141 | 0.118 | 0.114 | 0.322 | 0.269 | 0.149 | 0.163 | 0.353  | A  |
| DK0003R | 0.226 | 1.180 | 0.049  | 0.091 | 0.071 | 0.026 | -     | -     | -     | -     | -     | -      | A  |
| DK0005R | 0.154 | 0.375 | 0.054  | 0.052 | 0.098 | 0.053 | -     | 0.189 | 0.140 | 0.210 | 1.174 | 0.400  | A  |
| DK0008R | 0.358 | 1.065 | 0.146  | 0.401 | 0.132 | 0.300 | 0.170 | 0.110 | 0.378 | 0.511 | 1.917 | 1.510  | A  |
| EE0009R | 0.032 | 0.035 | 0.079  | 0.082 | 0.149 | 0.092 | 0.085 | 0.029 | 0.058 | 0.047 | 0.095 | 0.055  | B  |
| EE0011R | 0.122 | 0.138 | 0.236  | 0.112 | 0.040 | 0.106 | 0.170 | 0.065 | 0.075 | 0.112 | 0.480 | 0.278  | B  |
| ES0001R | -     | 0.062 | 0.084  | 0.058 | 0.065 | 0.117 | -     | 0.080 | 0.036 | 0.065 | 0.103 | 0.057  | A  |
| ES0004R | -     | 0.175 | 0.100  | 0.086 | 0.125 | 0.177 | 0.154 | 0.090 | 0.109 | 0.146 | 0.098 | 0.155  | A  |
| ES0007R | -     | 0.264 | 0.340  | 0.541 | 0.489 | 1.500 | -     | -     | 0.370 | 0.169 | 0.258 | 0.161  | A  |
| ES0008R | -     | 0.767 | 0.535  | 0.947 | 0.218 | 1.331 | 0.597 | 0.339 | 0.230 | 0.668 | 0.831 | 1.537  | A  |
| ES0009R | -     | 0.090 | 0.118  | 0.059 | 0.070 | 0.095 | 0.226 | 0.199 | 0.055 | 0.034 | 0.067 | 0.046  | A  |
| ES0010R | -     | -     | 10.402 | 7.150 | 0.640 | 1.246 | -     | 4.637 | 0.622 | 1.997 | 5.000 | 10.541 | A  |
| ES0011R | -     | -     | -      | 0.252 | 0.147 | 0.490 | -     | 0.260 | 0.043 | 0.226 | 0.250 | 0.231  | A  |
| ES0012R | -     | 0.466 | 0.170  | 0.360 | 0.259 | 0.800 | 0.617 | 0.971 | 0.313 | 0.153 | 0.476 | 0.586  | A  |
| FI0004R | 0.012 | 0.017 | 0.017  | 0.030 | 0.028 | 0.023 | 0.017 | 0.006 | 0.009 | 0.016 | 0.029 | 0.020  | A  |
| FI0009R | 0.180 | 0.263 | 0.170  | 0.105 | 0.095 | 0.050 | 0.035 | 0.058 | 0.064 | 0.152 | 0.168 | 0.246  | A  |
| FI0017R | 0.039 | 0.039 | 0.075  | 0.060 | 0.049 | 0.087 | 0.070 | 0.027 | 0.032 | 0.036 | 0.125 | 0.095  | A  |
| FI0022R | 0.013 | 0.007 | 0.011  | 0.013 | 0.052 | 0.005 | 0.006 | 0.012 | 0.007 | 0.009 | 0.014 | 0.006  | A  |
| FR0003R | 0.078 | 0.098 | 0.134  | 0.100 | 0.109 | 0.205 | 0.333 | 0.321 | 0.145 | 0.163 | 0.077 | 0.420  | A  |
| FR0005R | 0.983 | 0.357 | 0.628  | 0.455 | 0.830 | 0.608 | -     | 0.250 | 0.218 | 0.595 | 0.943 | 1.267  | A  |
| FR0008R | 0.042 | 0.075 | 0.028  | 0.044 | 0.045 | 0.037 | 0.030 | 0.046 | 0.080 | 0.041 | 0.032 | 0.043  | A  |
| FR0009R | 0.081 | -     | -      | 0.065 | 0.106 | 0.046 | 0.044 | 0.058 | 0.047 | 0.063 | 0.074 | 0.058  | A  |
| FR0010R | 0.070 | 0.072 | 0.059  | 0.098 | 0.063 | 0.055 | 0.038 | 0.053 | 0.071 | 0.097 | 0.062 | 0.096  | A  |
| FR0012R | 0.050 | 0.072 | 0.113  | 0.159 | 0.046 | 0.105 | 0.076 | 0.124 | 0.076 | 0.096 | 0.085 | 0.128  | A  |
| FR0013R | 0.167 | 0.204 | 0.128  | 0.221 | 0.069 | 0.169 | 0.033 | 0.078 | 0.082 | 0.208 | 0.106 | 0.632  | A  |
| FR0014R | 0.039 | 0.087 | 0.030  | 0.066 | 0.034 | 0.047 | 0.024 | 0.038 | 0.025 | 0.028 | 0.023 | 0.044  | A  |
| GB0002R | 0.498 | 0.633 | 0.223  | 0.263 | 0.389 | 0.070 | 0.117 | 0.075 | 0.185 | 0.590 | 0.784 | 0.653  | B  |
| GB0006R | 1.345 | 1.431 | 0.873  | 0.373 | -     | -     | -     | -     | -     | -     | -     | -      | B  |
| GB0013R | 0.668 | 0.687 | 0.416  | 0.370 | -     | -     | -     | -     | -     | -     | -     | -      | B  |
| GB0014R | 0.204 | 0.438 | 0.275  | 0.215 | 0.182 | 0.095 | 0.068 | 0.306 | 0.116 | 0.260 | 0.812 | 0.486  | B  |
| GB0015R | 0.788 | 6.521 | 0.523  | 0.443 | 0.636 | 0.128 | 0.174 | 0.262 | 0.260 | 0.984 | 0.669 | 0.576  | B  |
| HU0002R | 0.560 | 0.275 | 0.324  | 0.141 | 0.269 | 0.211 | 0.246 | 0.220 | 0.191 | 0.246 | 0.357 | 0.517  | A  |
| IE0002R | 0.261 | 0.377 | 0.121  | 0.160 | 0.230 | 0.100 | 0.167 | 0.098 | 0.106 | 0.337 | 0.236 | 0.389  | B  |
| IE0003R | 1.160 | 0.731 | 0.502  | 0.675 | 0.229 | 0.331 | 0.213 | 0.175 | 0.190 | 2.394 | 0.497 | 1.136  | B  |
| IT0001R | 0.536 | 0.690 | 0.443  | 0.474 | 0.337 | 0.405 | -     | 0.130 | 0.380 | 0.119 | 0.600 | 0.277  | A  |
| IT0004R | 0.055 | -     | 0.072  | 0.301 | 0.099 | 0.095 | 0.041 | 0.093 | 0.209 | 0.032 | 0.012 | 0.000  | A  |
| LV0010R | 0.067 | 0.127 | 0.054  | 0.079 | 0.069 | 0.054 | 0.076 | 0.053 | 0.035 | 0.065 | 0.166 | 0.295  | D  |
| LV0016R | 0.229 | 0.172 | 0.222  | 0.326 | 0.643 | 0.207 | 0.327 | 0.657 | 0.264 | 0.034 | 0.110 | 0.133  | D  |
| NL0009R | 0.165 | 0.611 | 0.100  | 0.245 | 0.111 | 0.080 | 0.200 | 0.072 | 0.114 | 0.442 | 0.553 | 0.500  | A  |
| NO0001R | 0.265 | 0.138 | 0.093  | 0.022 | 0.070 | 0.037 | 0.054 | 0.073 | 0.047 | 0.113 | 0.472 | 0.301  | A  |
| NO0008R | 0.300 | 0.366 | 0.072  | 0.065 | 0.170 | 0.026 | 0.028 | 0.029 | 0.035 | 0.293 | 0.408 | 0.267  | A  |
| NO0015R | 0.148 | 0.127 | 0.015  | 0.064 | 0.015 | 0.020 | 0.032 | 0.032 | 0.074 | 0.101 | 0.148 | 0.092  | A  |
| NO0039R | 0.020 | 0.366 | 0.021  | 0.061 | 0.074 | 0.027 | 0.023 | 0.040 | 0.018 | 0.115 | 0.195 | 0.198  | A  |
| NO0041R | 0.022 | 0.020 | 0.017  | 0.008 | 0.047 | 0.011 | 0.024 | 0.030 | 0.020 | 0.021 | 0.043 | 0.032  | A  |
| NO0055R | 0.035 | 0.039 | 0.030  | 0.040 | 0.179 | 0.019 | 0.021 | 0.011 | 0.031 | 0.023 | 0.017 | 0.065  | A  |
| PL0002R | 0.082 | 0.064 | 0.070  | 0.037 | 0.031 | 0.021 | 0.052 | 0.033 | 0.018 | 0.041 | 0.023 | 0.070  | A  |
| PL0003R | 0.120 | 0.173 | 0.153  | 0.146 | 0.179 | 0.109 | 0.116 | 0.200 | 0.129 | 0.171 | 0.159 | 0.164  | A  |
| PL0004R | 0.114 | 0.210 | 0.061  | 0.064 | 0.075 | 0.088 | 0.071 | 0.066 | 0.069 | 0.098 | 0.162 | 0.396  | A  |
| PL0005R | 0.073 | 0.074 | 0.027  | 0.148 | 0.046 | 0.069 | 0.058 | 0.060 | 0.077 | 0.051 | 0.018 | 0.065  | A  |
| PT0001R | 0.084 | -     | 0.047  | 0.060 | 0.041 | -     | -     | 0.096 | 0.054 | 0.236 | -     | 0.052  | A  |

Table 3.17 contd.

|         | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | QA |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| PT0003R | 0.280 | 0.208 | 0.491 | 0.338 | 0.155 | 0.294 | 0.092 | 0.273 | 0.162 | 0.509 | 0.165 | 0.314 | A  |
| PT0004R | 0.358 | 0.760 | 0.193 | 0.947 | 0.283 | -     | -     | 0.210 | 0.344 | 0.848 | 0.248 | 0.540 | A  |
| RU0001R | 0.032 | 0.047 | 0.024 | 0.046 | 0.431 | 0.027 | 0.009 | 0.001 | 0.006 | 0.016 | 0.019 | 0.008 | A  |
| RU0013R | 0.038 | 0.023 | 0.027 | 0.064 | 0.065 | 0.147 | 0.079 | 0.021 | 0.063 | 0.016 | 0.067 | 0.008 | A  |
| RU0016R | 0.617 | 0.429 | 0.292 | 0.194 | 0.303 | 0.088 | 0.106 | 0.140 | 0.096 | 0.095 | 1.106 | 0.450 | A  |
| RU0018R | -     | -     | -     | -     | -     | 0.094 | 0.044 | 0.007 | 0.022 | 0.035 | 0.063 | 0.047 | A  |
| SE0002R | 0.245 | 0.258 | 0.111 | 0.467 | 0.095 | 0.093 | 0.075 | 0.046 | 0.077 | 0.378 | 0.742 | 1.184 | A  |
| SE0005R | 0.031 | 0.088 | 0.035 | 0.041 | 0.038 | 0.017 | 0.031 | 0.010 | 0.012 | 0.010 | 0.010 | 0.010 | A  |
| SE0011R | 0.096 | 0.141 | 0.099 | 0.216 | 0.062 | 0.044 | 0.074 | 0.039 | 0.064 | 0.168 | 0.139 | 0.473 | A  |
| SE0012R | 0.061 | 0.066 | 0.092 | 0.053 | 0.043 | 0.053 | 0.080 | 0.063 | 0.052 | 0.102 | 0.035 | 0.184 | A  |
| SK0002R | 0.073 | 0.034 | 0.096 | 0.099 | 0.092 | 0.123 | 0.039 | 0.056 | 0.322 | 0.136 | 0.078 | 0.081 | A  |
| SK0004R | 0.033 | 0.054 | 0.067 | 0.088 | 0.150 | 0.069 | 0.046 | 0.052 | 0.109 | 0.078 | 0.050 | 0.108 | A  |
| SK0005R | 0.131 | 0.096 | 0.168 | 0.118 | 0.080 | 0.058 | 0.067 | 0.067 | 0.046 | 0.044 | 0.047 | 0.111 | A  |
| SK0006R | 0.055 | 0.058 | 0.067 | 0.101 | 0.100 | 0.048 | 0.120 | 0.048 | 0.065 | 0.050 | 0.031 | 0.090 | A  |
| TR0001R | -     | -     | 0.362 | 0.447 | 0.464 | 0.158 | 0.183 | 0.210 | -     | 0.156 | 0.173 | 0.134 | A  |
| YU0005R | 0.126 | 0.127 | 0.776 | 0.150 | -     | -     | -     | 0.170 | 0.266 | 0.452 | 0.348 | 0.152 | B  |
| YU0008R | 0.214 | 0.074 | 0.141 | 0.114 | 0.270 | 0.263 | 0.187 | 0.447 | 0.091 | 0.105 | 0.116 | 0.062 | B  |

Table 3.18: Magnesium in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 98  | 96  | 93  | A  |
| AT0004R | 98  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 99  | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | B  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | B  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | B  |
| CZ0001R | 100 | 84  | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 99  | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | A  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 99  | 99  | 98  | 99  | 98  | A  |
| DE0002R | 97  | 90  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 85  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 99  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 97  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 97  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 97  | 97  | 98  | 100 | 98  | 99  | 99  | 99  | 98  | 97  | 96  | 99  | A  |
| DK0003R | 98  | 97  | 95  | 92  | 97  | 67  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 96  | 92  | 98  | 75  | 95  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 99  | 96  | 76  | 100 | 58  | 99  | 100 | 98  | 100 | 96  | 92  | 90  | B  |
| EE0011R | 96  | 97  | 100 | 96  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | B  |
| ES0001R | 100 | 100 | 95  | 94  | 97  | 91  | 0   | 100 | 100 | 98  | 100 | 94  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 92  | 98  | 90  | 90  | 100 | 100 | 98  | 97  | 95  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 99  | 94  | 90  | 94  | 68  | 0   | 100 | 98  | 99  | 100 | 100 | A  |
| ES0008R | 100 | 100 | 98  | 92  | 79  | 100 | 100 | 53  | 88  | 94  | 100 | 75  | A  |
| ES0009R | 100 | 98  | 89  | 98  | 97  | 100 | 98  | 95  | 97  | 98  | 93  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| ES0012R | 100 | 97  | 100 | 98  | 100 | 90  | 100 | 100 | 100 | 100 | 92  | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

Table 3.18 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | B  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | B  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | B  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 87  | 99  | 100 | 100 | 100 | 38  | 79  | A  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 98  | D  |
| LV0016R | 95  | 99  | 93  | 93  | 97  | 100 | 76  | 98  | 98  | 99  | 91  | 97  | D  |
| NL0009R | 96  | 69  | 90  | 96  | 51  | 95  | 99  | 91  | 93  | 96  | 95  | 97  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 98  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 96  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 95  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 92  | 94  | A  |
| PL0002R | 83  | 94  | 98  | 99  | 98  | 99  | 99  | 99  | 89  | 97  | 98  | 99  | A  |
| PL0003R | 99  | 94  | 95  | 98  | 90  | 99  | 85  | 99  | 99  | 98  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 94  | 98  | 95  | 89  | 100 | 83  | 100 | 100 | 99  | 92  | 100 | 97  | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 98  | 98  | 100 | 65  | 100 | 100 | 90  | 97  | A  |
| YU0005R | 98  | 96  | 58  | 65  | 100 | 100 | 100 | 100 | 94  | 97  | 98  | 95  | B  |
| YU0008R | 100 | 99  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 95  | 99  | 100 | B  |

*Table 3.19: Monthly weighted averages of chloride in precipitation in 1999.  
(Unit: mg Cl/l).*

|         | Jan   | Feb   | Mar    | Apr    | May   | Jun   | Jul  | Aug   | Sep  | Oct   | Nov    | Dec    | QA |
|---------|-------|-------|--------|--------|-------|-------|------|-------|------|-------|--------|--------|----|
| AT0002R | 1.53  | 0.38  | 0.32   | 0.21   | 0.23  | 0.07  | 0.16 | 0.23  | 0.18 | 0.24  | 0.18   | 0.12   | A  |
| AT0004R | 0.26  | 0.14  | 0.13   | 0.19   | 0.07  | 0.16  | 0.07 | 0.14  | 0.04 | 0.14  | 0.09   | 0.30   | A  |
| AT0005R | 0.17  | 0.20  | 0.23   | 0.23   | 0.14  | 0.12  | 0.06 | 0.04  | 0.11 | 0.14  | 0.04   | 0.03   | A  |
| CH0002R | 0.33  | 0.48  | 0.21   | 0.20   | 0.13  | 0.12  | 0.10 | 0.20  | 0.14 | 0.14  | 0.10   | 0.44   | A  |
| CH0004R | 0.26  | 0.45  | 0.15   | 0.23   | 0.12  | 0.12  | 0.07 | 0.15  | 0.18 | 0.12  | 0.16   | 0.31   | A  |
| CH0005R | 0.12  | 0.18  | 0.28   | 0.19   | 0.13  | 0.07  | 0.10 | 0.09  | 0.06 | 0.10  | 0.11   | 0.15   | A  |
| CZ0001R | 0.61  | 0.67  | 0.25   | 0.12   | 0.25  | 0.14  | 0.14 | 0.21  | 0.67 | 0.70  | 0.56   | 2.15   | A  |
| CZ0003R | 0.50  | 0.62  | 0.35   | 0.26   | 0.15  | 0.14  | 0.10 | 0.19  | 0.16 | 0.47  | 0.22   | 0.92   | A  |
| DE0001R | 12.16 | 29.23 | 2.61   | 11.62  | 2.48  | 4.67  | 5.97 | 3.02  | 5.06 | 15.46 | 20.42  | 22.77  | A  |
| DE0002R | 1.74  | 4.47  | 0.71   | 0.66   | 0.52  | 0.22  | 0.50 | 0.52  | 0.21 | 1.01  | 1.14   | 1.32   | A  |
| DE0003R | 0.63  | 0.65  | 0.42   | 0.36   | 0.13  | 0.16  | 0.26 | 0.21  | 0.24 | 0.25  | 0.28   | 0.33   | A  |
| DE0004R | 0.73  | 1.11  | 0.47   | 0.49   | 0.43  | 0.34  | 0.23 | 0.31  | 0.40 | 0.33  | 0.41   | 0.64   | A  |
| DE0005R | 0.44  | 0.46  | 0.20   | 0.17   | 0.18  | 0.11  | 0.16 | 0.18  | 0.14 | 0.46  | 0.42   | 0.35   | A  |
| DE0007R | 1.49  | 4.00  | 0.71   | 0.41   | 0.36  | 0.29  | 0.54 | 0.37  | 0.23 | 0.70  | 0.96   | 0.91   | A  |
| DE0008R | 0.52  | 0.96  | 0.41   | 0.46   | 0.34  | 0.34  | 0.16 | 0.14  | 0.21 | 0.86  | 0.33   | 0.51   | A  |
| DE0009R | 1.52  | 2.35  | 0.47   | 0.57   | 0.57  | 0.49  | 0.56 | 2.02  | 2.28 | 1.57  | 1.75   | 3.51   | A  |
| DK0003R | 3.27  | 15.95 | 0.82   | 1.82   | 1.26  | 0.35  | -    | -     | -    | -     | -      | -      | A  |
| DK0005R | 2.87  | 6.40  | 0.93   | 1.14   | 1.50  | 0.83  | -    | 2.62  | 2.26 | 3.15  | 17.60  | 6.21   | A  |
| DK0008R | 5.01  | 14.77 | 2.10   | 5.79   | 1.21  | 1.91  | 2.89 | 1.60  | 5.80 | 6.31  | 29.50  | 27.30  | A  |
| EE0009R | 0.42  | 0.49  | 0.73   | 0.50   | 0.70  | 0.14  | 0.56 | 0.18  | 0.43 | 0.42  | 1.01   | 0.78   | B  |
| EE0011R | 1.41  | 2.16  | 1.44   | 0.94   | 0.30  | 0.53  | 0.65 | 0.54  | 0.29 | 1.44  | 6.10   | 4.70   | B  |
| ES0001R | -     | 0.48  | 0.89   | 0.88   | 0.82  | 0.83  | 1.34 | 0.61  | 0.70 | 1.10  | 0.81   | 0.76   | D  |
| ES0004R | -     | 0.83  | 1.16   | 0.99   | 0.73  | 0.94  | 0.75 | 0.61  | 1.24 | 0.87  | 1.56   | 1.94   | D  |
| ES0007R | -     | 0.61  | 1.58   | 2.10   | 1.80  | 2.35  | -    | -     | 0.85 | 0.69  | 0.76   | 0.72   | D  |
| ES0008R | -     | 9.35  | 7.60   | 13.13  | 2.25  | 16.58 | 5.69 | 5.28  | 5.25 | 9.00  | 12.25  | 21.72  | D  |
| ES0009R | -     | 0.57  | 1.12   | 0.97   | 0.74  | 0.78  | 0.98 | 0.90  | 0.83 | 0.65  | 1.00   | 0.69   | D  |
| ES0010R | -     | -     | 139.62 | 119.40 | 6.95  | 17.04 | -    | 59.11 | 8.03 | 30.35 | 231.25 | 156.78 | D  |
| ES0011R | -     | -     | -      | 2.17   | 1.39  | 2.65  | -    | 1.25  | 1.00 | 3.03  | 2.08   | 1.81   | D  |
| ES0012R | -     | 1.94  | 1.02   | 1.81   | 1.20  | 1.75  | 1.56 | 2.10  | 1.14 | 1.01  | 1.38   | 1.12   | D  |
| FI0004R | 0.17  | 0.20  | 0.18   | 0.14   | 0.18  | 0.10  | 0.11 | 0.05  | 0.09 | 0.12  | 0.42   | 0.24   | A  |
| FI0009R | 2.64  | 3.75  | 3.46   | 0.98   | 1.55  | 0.37  | 0.49 | 0.79  | 0.88 | 2.11  | 2.42   | 3.70   | A  |
| FI0017R | 0.24  | 0.32  | 0.64   | 0.18   | 0.38  | 0.19  | 0.23 | 0.14  | 0.29 | 0.34  | 1.65   | 1.16   | A  |
| FI0022R | 0.22  | 0.10  | 0.12   | 0.10   | 0.22  | 0.03  | 0.04 | 0.07  | 0.09 | 0.10  | 0.20   | 0.08   | A  |
| FR0003R | 0.86  | 1.06  | 1.65   | 0.93   | 0.28  | 1.02  | 0.34 | 0.67  | 0.67 | 0.72  | 0.71   | 5.37   | A  |
| FR0005R | 13.42 | 4.73  | 8.34   | 6.38   | 10.45 | 7.35  | -    | 2.80  | 2.61 | 7.38  | 12.61  | 16.06  | A  |
| FR0008R | 0.45  | 1.02  | 0.16   | 0.52   | 0.16  | 0.22  | 0.14 | 0.20  | 0.22 | 0.23  | 0.57   | 0.49   | A  |
| FR0009R | 0.94  | -     | -      | 0.79   | 0.56  | 0.43  | 0.33 | 0.38  | 0.41 | 0.54  | 0.85   | 0.74   | A  |
| FR0010R | 0.73  | 0.75  | 0.43   | 0.78   | 0.18  | 0.27  | 0.15 | 0.30  | 0.38 | 0.84  | 0.81   | 1.02   | A  |
| FR0012R | 0.20  | 0.67  | 0.53   | 1.86   | 0.22  | 0.43  | 0.18 | 0.29  | 0.20 | 0.68  | 0.84   | 1.32   | A  |
| FR0013R | 2.16  | 2.29  | 1.38   | 2.36   | 0.66  | 0.57  | 0.14 | 0.20  | 0.90 | 2.38  | 1.19   | 8.38   | A  |
| FR0014R | 0.24  | 1.04  | 0.24   | 0.29   | 0.09  | 0.22  | 0.09 | 0.10  | 0.23 | 0.13  | 0.17   | 0.50   | A  |
| GB0002R | 4.22  | 4.51  | 1.12   | 1.42   | 2.66  | 0.56  | 0.81 | 0.68  | 1.64 | 5.78  | 6.97   | 5.34   | C  |
| GB0006R | 12.06 | 10.62 | 6.48   | 1.33   | -     | -     | -    | -     | -    | -     | -      | -      | C  |
| GB0013R | 5.15  | 4.95  | 3.19   | 1.61   | -     | -     | -    | -     | -    | -     | -      | -      | C  |
| GB0014R | 2.34  | 3.46  | 2.56   | 1.65   | 1.26  | 0.94  | 0.60 | 3.04  | 1.02 | 2.29  | 4.77   | 4.75   | C  |
| GB0015R | 6.22  | 40.05 | 3.22   | 2.65   | 6.82  | 1.09  | 1.02 | 1.98  | 1.85 | 8.87  | 5.78   | 4.00   | C  |
| HU0002R | 3.01  | 2.14  | 3.23   | 0.58   | 0.39  | 1.62  | 1.93 | 0.42  | 0.45 | 0.60  | 1.09   | 1.50   | B  |
| IE0002R | 3.75  | 5.04  | 1.55   | 2.07   | 3.05  | 1.22  | 2.29 | 0.89  | 1.56 | 5.11  | 3.24   | 5.46   | B  |
| IE0003R | 17.33 | 9.88  | 7.21   | 9.58   | 3.37  | 5.20  | 3.00 | 2.06  | 2.42 | 21.41 | 6.56   | 19.36  | B  |
| IT0001R | 6.10  | 8.98  | 4.66   | 4.91   | 1.24  | 3.30  | -    | 16.20 | 4.04 | 0.70  | 8.99   | 4.03   | A  |
| IT0004R | 0.61  | -     | 0.55   | 2.70   | 0.32  | 0.33  | 0.24 | 0.17  | 1.03 | 0.37  | 0.17   | 0.31   | B  |
| LT0015R | 7.58  | 7.81  | 2.16   | 1.04   | 0.99  | 0.69  | 0.81 | 1.24  | 0.99 | 5.26  | 12.56  | 8.73   | A  |
| LV0010R | 0.64  | 1.10  | 0.47   | 0.42   | 0.30  | 0.44  | 0.60 | 0.63  | 0.38 | 0.94  | 1.55   | 3.60   | B  |
| LV0016R | 1.02  | 0.79  | 0.30   | 0.90   | 0.70  | 0.19  | 0.31 | 0.28  | 0.21 | 0.22  | 0.30   | 0.92   | B  |
| NL0009R | 2.17  | 11.67 | 1.27   | 3.22   | 1.24  | 1.22  | 2.92 | 1.13  | 1.56 | 5.99  | 7.93   | 7.05   | A  |
| NO0001R | 3.78  | 2.21  | 1.39   | 0.38   | 1.04  | 0.51  | 0.70 | 1.16  | 0.68 | 1.81  | 7.77   | 5.31   | A  |
| NO0008R | 4.73  | 5.72  | 1.47   | 0.99   | 2.66  | 0.50  | 0.58 | 0.38  | 0.85 | 4.89  | 7.07   | 4.92   | A  |
| NO0015R | 2.63  | 2.01  | 0.25   | 0.86   | 0.14  | 0.28  | 0.40 | 0.57  | 1.32 | 1.61  | 2.46   | 1.71   | A  |
| NO0039R | 0.35  | 5.46  | 0.31   | 0.85   | 0.92  | 0.37  | 0.29 | 0.58  | 0.24 | 1.73  | 3.10   | 3.29   | A  |
| NO0041R | 0.44  | 0.42  | 0.19   | 0.15   | 0.32  | 0.17  | 0.18 | 0.27  | 0.29 | 0.29  | 0.65   | 0.63   | A  |
| NO0055R | 0.84  | 0.70  | 0.43   | 0.33   | 1.74  | 0.22  | 0.19 | 0.15  | 0.39 | 0.55  | 0.48   | 1.44   | A  |
| PL0002R | 1.16  | 1.69  | 1.04   | 0.22   | 0.25  | 0.11  | 0.28 | 0.29  | 0.17 | 0.54  | 0.35   | 1.22   | A  |
| PL0003R | 1.97  | 1.71  | 2.34   | 1.86   | 1.62  | 1.22  | 1.23 | 1.74  | 1.20 | 1.76  | 1.75   | 1.29   | A  |
| PL0004R | 1.40  | 4.57  | 0.61   | 0.64   | 0.41  | 0.53  | 0.70 | 0.68  | 0.26 | 1.30  | 2.27   | 6.65   | A  |
| PL0005R | 1.19  | 0.72  | 0.78   | 0.36   | 0.07  | 0.18  | 0.23 | 0.53  | 0.28 | 0.59  | 0.64   | 1.08   | B  |

Table 3.19 contd.

|         | Jan  | Feb  | Mar  | Apr   | May  | Jun  | Jul  | Aug  | Sep  | Oct   | Nov   | Dec   | QA |
|---------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|----|
| PT0001R | 0.24 | -    | 0.43 | 0.47  | 0.46 | -    | -    | 0.21 | 0.21 | 2.79  | -     | 0.34  | A  |
| PT0003R | 4.59 | 2.76 | 7.22 | 4.79  | 2.87 | 4.76 | 1.08 | 2.39 | 2.75 | 7.64  | 2.52  | 5.47  | A  |
| PT0004R | 4.42 | 9.59 | 3.56 | 12.86 | 4.68 | -    | -    | 2.70 | 5.22 | 12.71 | 2.98  | 7.10  | A  |
| RU0001R | 1.96 | 3.93 | 4.28 | 1.57  | 2.98 | 1.05 | 0.50 | 0.37 | 0.56 | 1.26  | 1.25  | 1.03  | B  |
| RU0013R | 0.76 | 0.41 | 0.42 | 0.54  | 0.63 | 0.77 | 0.66 | 0.52 | 0.60 | 0.64  | 0.55  | 0.28  | B  |
| RU0016R | 8.66 | 4.02 | 4.69 | 2.28  | 2.91 | 0.87 | 0.86 | 3.50 | 1.12 | 1.87  | 29.69 | 7.79  | B  |
| RU0018R | -    | -    | -    | -     | -    | 0.34 | 0.28 | 0.31 | 0.28 | 0.54  | 1.00  | 0.36  | B  |
| SE0002R | 3.77 | 3.65 | 1.13 | 8.68  | 0.80 | 0.91 | 0.78 | 0.36 | 0.69 | 5.09  | 9.48  | 16.45 | A  |
| SE0005R | 0.08 | 1.61 | 0.14 | 0.08  | 0.08 | 0.00 | 0.03 | 0.08 | 0.12 | 0.11  | 0.17  | 0.15  | A  |
| SE0011R | 1.24 | 2.54 | 1.07 | 2.36  | 0.39 | 0.17 | 0.61 | 0.31 | 0.57 | 2.29  | 1.97  | 6.78  | A  |
| SE0012R | 0.79 | 0.77 | 0.82 | 0.18  | 0.24 | 0.08 | 0.60 | 0.70 | 0.47 | 1.46  | 0.91  | 2.69  | A  |
| SK0002R | 0.48 | 0.49 | 0.40 | 0.48  | 0.29 | 0.14 | 0.10 | 0.26 | 0.33 | 0.78  | 0.56  | 0.55  | A  |
| SK0004R | 0.22 | 0.40 | 0.30 | 0.28  | 0.44 | 0.25 | 0.16 | 0.23 | 0.34 | 0.45  | 0.28  | 0.24  | A  |
| SK0005R | 0.64 | 1.07 | 0.73 | 0.46  | 0.25 | 0.14 | 0.23 | 0.41 | 0.14 | 0.33  | 0.62  | 0.47  | A  |
| SK0006R | 0.43 | 0.56 | 0.29 | 0.34  | 0.34 | 0.16 | 0.20 | 0.28 | 0.27 | 0.27  | 0.25  | 0.36  | A  |
| TR0001R | -    | -    | 2.25 | 2.14  | 2.60 | 0.76 | 1.01 | 0.71 | -    | 0.67  | 1.14  | 0.87  | A  |
| YU0005R | 1.01 | 0.30 | 1.68 | 0.62  | -    | -    | -    | 0.20 | 0.29 | 1.41  | 0.72  | 1.06  | C  |
| YU0008R | 0.87 | 0.41 | 0.90 | 1.05  | 1.41 | 1.02 | 0.75 | 0.89 | 0.34 | 0.80  | 0.99  | 1.47  | C  |

Table 3.20: Chloride in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 99  | 98  | 97  | A  |
| AT0004R | 98  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 100 | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 94  | 100 | 100 | 97  | 72  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 100 | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 87  | A  |
| DE0001R | 98  | 97  | 98  | 92  | 98  | 99  | 97  | 95  | 99  | 99  | 99  | 98  | A  |
| DE0002R | 98  | 91  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 89  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 98  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 99  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 95  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 98  | 99  | A  |
| DK0003R | 99  | 99  | 98  | 99  | 95  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 97  | 99  | 99  | 99  | 99  | 100 | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | B  |
| EE0011R | 96  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0001R | 100 | 100 | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 96  | D  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | D  |
| ES0004R | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 98  | D  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | D  |
| ES0007R | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 100 | 100 | 100 | 100 | 100 | D  |
| ES0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| ES0009R | 100 | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 100 | D  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| ES0011R | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | D  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

*Table 3.20 contd.*

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 84  | 99  | 90  | 93  | 99  | 99  | 100 | C  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | C  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | C  |
| GB0014R | 98  | 99  | 99  | 82  | 100 | 99  | 63  | 99  | 99  | 99  | 99  | 99  | C  |
| GB0015R | 99  | 99  | 99  | 99  | 98  | 73  | 98  | 99  | 86  | 100 | 100 | 99  | C  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 86  | 95  | 98  | 100 | 100 | 100 | 99  | 100 | 100 | 91  | 98  | B  |
| LV0016R | 97  | 96  | 93  | 89  | 84  | 100 | 97  | 98  | 98  | 95  | 66  | 97  | B  |
| NL0009R | 98  | 81  | 97  | 98  | 72  | 99  | 99  | 93  | 93  | 98  | 99  | 99  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | A  |
| NO0008R | 99  | 100 | 99  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 96  | 97  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 95  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 92  | 25  | A  |
| PL0002R | 98  | 94  | 94  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 100 | 100 | 99  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | B  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0002R | 100 | 99  | 89  | 99  | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 92  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 98  | 98  | 97  | 100 | 65  | 100 | 100 | 90  | 99  | A  |
| YU0005R | 95  | 94  | 37  | 78  | 100 | 100 | 100 | 100 | 72  | 100 | 87  | 92  | C  |
| YU0008R | 86  | 99  | 98  | 100 | 100 | 100 | 100 | 92  | 100 | 92  | 99  | 100 | C  |

*Table 3.21: Monthly weighted averages of calcium in precipitation in 1999.  
(Unit: mg Ca/l).*

|         | Jan  | Feb  | Mar   | Apr   | May  | Jun   | Jul   | Aug   | Sep  | Oct  | Nov   | Dec  | QA |
|---------|------|------|-------|-------|------|-------|-------|-------|------|------|-------|------|----|
| AT0002R | 0.88 | 0.36 | 0.71  | 0.61  | 0.74 | 0.13  | 0.14  | 0.21  | 0.24 | 0.25 | 0.19  | 0.00 | A  |
| AT0004R | 0.74 | 0.49 | 0.47  | 0.80  | 0.14 | 0.17  | 0.09  | 0.11  | 0.09 | 0.11 | 0.07  | 0.05 | A  |
| AT0005R | 0.07 | 0.65 | 0.28  | 0.21  | 0.56 | 0.36  | 0.08  | 0.10  | 0.05 | 0.07 | 0.14  | 0.04 | A  |
| CH0002R | 0.17 | 0.15 | 0.40  | 0.27  | 0.55 | 0.51  | 0.56  | 0.97  | 0.22 | 0.19 | 0.15  | 0.20 | A  |
| CH0004R | 0.05 | 0.12 | 0.16  | 0.24  | 0.43 | 0.35  | 0.28  | 0.49  | 0.30 | 0.09 | 0.05  | 0.07 | A  |
| CH0005R | 0.07 | 0.11 | 0.27  | 0.16  | 0.29 | 0.27  | 0.30  | 0.41  | 0.12 | 0.31 | 0.11  | 0.14 | A  |
| CZ0001R | 0.59 | 0.14 | 0.31  | 0.15  | 0.38 | 0.21  | 0.18  | 0.21  | 0.14 | 0.28 | 0.14  | 0.11 | B  |
| CZ0003R | 0.47 | 0.03 | 0.44  | 0.41  | 0.20 | 0.22  | 0.10  | 0.52  | 0.12 | 0.24 | 0.31  | 0.19 | B  |
| DE0001R | 0.94 | 1.36 | 0.47  | 0.99  | 0.99 | 0.53  | 0.63  | 0.40  | 0.58 | 0.86 | 0.80  | 0.91 | A  |
| DE0002R | 0.61 | 0.60 | 0.71  | 0.66  | 0.70 | 0.72  | 0.66  | 0.51  | 0.55 | 1.10 | 0.85  | 0.41 | A  |
| DE0003R | 0.24 | 0.23 | 0.24  | 0.53  | 0.30 | 0.36  | 0.43  | 0.33  | 0.29 | 0.31 | 0.27  | 0.19 | A  |
| DE0004R | 0.32 | 0.31 | 0.19  | 0.35  | 0.91 | 0.45  | 0.44  | 0.65  | 0.27 | 0.34 | 0.36  | 0.20 | A  |
| DE0005R | 0.29 | 0.20 | 0.14  | 0.30  | 0.51 | 0.32  | 0.17  | 0.28  | 0.18 | 0.62 | 0.30  | 0.11 | A  |
| DE0007R | 0.39 | 0.44 | 0.39  | 0.58  | 0.29 | 0.51  | 0.54  | 0.45  | 0.38 | 0.32 | 0.65  | 0.19 | A  |
| DE0008R | 0.03 | 0.04 | 0.15  | 0.21  | 0.41 | 0.38  | 0.18  | 0.08  | 0.31 | 0.25 | 0.03  | 0.04 | A  |
| DE0009R | 0.75 | 0.56 | 0.20  | 0.62  | 0.52 | 0.46  | 0.55  | 0.99  | 1.64 | 0.57 | 1.09  | 1.02 | A  |
| DK0003R | 0.16 | 0.37 | 0.11  | 0.07  | 0.10 | 0.04  | -     | -     | -    | -    | -     | -    | A  |
| DK0005R | 0.20 | 0.29 | 0.16  | 0.14  | 0.26 | 0.17  | -     | 0.35  | 0.35 | 0.34 | 0.80  | 0.31 | A  |
| DK0008R | 0.21 | 1.01 | 0.19  | 0.46  | 0.28 | 0.23  | 0.17  | 0.11  | 0.35 | 0.40 | 0.70  | 0.59 | A  |
| EE0009R | 0.14 | 0.15 | 0.87  | 0.74  | 1.72 | 0.61  | 0.62  | 0.15  | 0.42 | 0.27 | 0.23  | 0.25 | B  |
| EE0011R | 0.18 | 0.30 | 0.84  | 0.76  | 0.30 | 0.34  | 0.59  | 0.82  | 0.75 | 0.23 | 0.45  | 0.25 | B  |
| ES0001R | -    | 0.46 | 0.87  | 0.44  | 0.49 | 1.31  | -     | 0.58  | 0.23 | 0.29 | 1.04  | 0.44 | A  |
| ES0004R | -    | 2.09 | 1.41  | 1.90  | 1.93 | 3.03  | 2.40  | 1.05  | 1.54 | 1.50 | 0.81  | 0.41 | A  |
| ES0007R | -    | 1.43 | 2.40  | 2.92  | 2.44 | 9.90  | -     | -     | 2.83 | 1.31 | 1.19  | 0.65 | A  |
| ES0008R | -    | 1.61 | 0.60  | 1.14  | 0.60 | 1.58  | 2.03  | 0.52  | 0.38 | 0.55 | 0.56  | 1.73 | A  |
| ES0009R | -    | 1.53 | 1.29  | 0.40  | 0.94 | 1.10  | 2.63  | 1.69  | 0.48 | 0.25 | 0.47  | 0.33 | A  |
| ES0010R | -    | -    | 11.08 | 11.80 | 2.15 | 4.48  | -     | 16.15 | 1.78 | 2.35 | 10.72 | 8.25 | A  |
| ES0011R | -    | -    | -     | 1.24  | 0.46 | 3.26  | -     | 1.98  | 0.41 | 0.43 | 1.70  | 1.15 | A  |
| ES0012R | -    | 3.90 | 1.24  | 8.19  | 4.58 | 11.10 | 16.55 | 12.26 | 4.97 | 2.08 | 3.53  | 5.12 | A  |
| FI0004R | 0.04 | 0.04 | 0.10  | 0.17  | 0.13 | 0.09  | 0.09  | 0.02  | 0.03 | 0.14 | 0.05  | 0.03 | A  |
| FI0009R | 0.12 | 0.18 | 2.97  | 0.38  | 0.37 | 0.26  | 0.08  | 0.13  | 0.08 | 0.13 | 0.11  | 0.13 | A  |
| FI0017R | 0.40 | 0.28 | 0.54  | 0.36  | 0.18 | 0.52  | 0.41  | 0.18  | 0.16 | 0.12 | 0.28  | 0.25 | A  |
| FI0022R | 0.01 | 0.02 | 0.06  | 0.05  | 0.28 | 0.02  | 0.02  | 0.03  | 0.04 | 0.05 | 0.04  | 0.01 | A  |
| FR0003R | 0.09 | 0.19 | 0.23  | 0.35  | 0.88 | 0.51  | 0.47  | 0.38  | 0.20 | 0.14 | 0.23  | 0.16 | A  |
| FR0005R | 0.49 | 0.17 | 0.54  | 0.28  | 0.73 | 0.38  | -     | 0.17  | 0.13 | 0.26 | 0.39  | 0.48 | A  |
| FR0008R | 0.11 | 0.08 | 0.06  | 0.14  | 0.33 | 0.21  | 0.20  | 0.23  | 0.09 | 0.31 | 0.08  | 0.04 | A  |
| FR0009R | 0.15 | -    | -     | 0.18  | 1.19 | 0.31  | 0.53  | 0.42  | 0.12 | 0.20 | 0.13  | 0.07 | A  |
| FR0010R | 0.11 | 0.12 | 0.22  | 0.46  | 0.52 | 0.34  | 0.25  | 0.29  | 0.34 | 0.53 | 0.15  | 0.09 | A  |
| FR0012R | 0.14 | 0.18 | 1.13  | 0.39  | 0.63 | 0.91  | 0.64  | 1.32  | 0.32 | 0.27 | 0.16  | 0.20 | A  |
| FR0013R | 0.15 | 0.44 | 0.31  | 0.65  | 0.26 | 1.63  | 0.27  | 1.04  | 0.23 | 0.21 | 0.43  | 0.29 | A  |
| FR0014R | 0.08 | 0.16 | 0.17  | 0.69  | 0.30 | 0.26  | 0.24  | 0.31  | 0.23 | 0.11 | 0.07  | 0.06 | A  |
| GB0002R | 0.25 | 0.33 | 0.19  | 0.27  | 0.28 | 0.18  | 0.19  | 0.26  | 0.18 | 0.30 | 0.27  | 0.30 | B  |
| GB0006R | 0.66 | 0.78 | 0.64  | 0.85  | -    | -     | -     | -     | -    | -    | -     | -    | B  |
| GB0013R | 0.40 | 0.40 | 0.34  | 1.13  | -    | -     | -     | -     | -    | -    | -     | -    | B  |
| GB0014R | 0.24 | 0.56 | 0.22  | 0.52  | 0.72 | 0.26  | 0.43  | 0.29  | 0.31 | 0.23 | 0.44  | 0.34 | B  |
| GB0015R | 0.40 | 1.42 | 0.30  | 0.27  | 0.37 | 0.16  | 0.33  | 0.19  | 0.16 | 0.40 | 0.28  | 0.26 | B  |
| HU0002R | 1.65 | 1.21 | 1.36  | 0.62  | 1.07 | 0.78  | 0.84  | 0.74  | 0.67 | 0.66 | 0.82  | 0.52 | B  |
| IE0002R | 0.14 | 0.27 | 0.14  | 0.14  | 0.24 | 0.25  | 0.23  | 0.21  | 0.06 | 0.22 | 0.12  | 0.20 | B  |
| IE0003R | 0.40 | 0.28 | 0.17  | 0.37  | 0.27 | 0.16  | 0.17  | 0.27  | 0.14 | 1.47 | 0.37  | 0.40 | B  |
| IT0001R | 1.71 | 1.12 | 1.76  | 2.29  | 4.98 | 4.24  | -     | 2.60  | 3.07 | 0.38 | 1.91  | 0.83 | A  |
| IT0004R | 0.18 | -    | 0.34  | 1.44  | 1.19 | 1.05  | 0.51  | 1.09  | 0.98 | 0.11 | 0.10  | 0.14 | B  |
| LT0015R | 0.63 | 0.32 | 0.20  | 0.63  | 0.33 | 0.23  | 0.79  | 0.28  | 0.49 | 0.63 | 1.73  | 1.41 | B  |
| LV0010R | 0.12 | 0.13 | 0.10  | 0.35  | 0.36 | 0.30  | 0.23  | 0.19  | 0.14 | 0.06 | 0.21  | 0.35 | B  |
| LV0016R | 0.87 | 0.44 | 0.80  | 1.85  | 1.79 | 0.45  | 0.49  | 2.02  | 0.94 | 0.07 | 0.21  | 0.34 | B  |
| NL0009R | 0.22 | 0.44 | 0.26  | 0.27  | 0.77 | 0.19  | 0.26  | 0.12  | 0.17 | 0.26 | 0.23  | 0.63 | A  |
| NO0001R | 0.11 | 0.05 | 0.07  | 0.03  | 0.11 | 0.05  | 0.08  | 0.08  | 0.12 | 0.09 | 0.35  | 0.11 | A  |
| NO0008R | 0.17 | 0.15 | 0.08  | 0.17  | 0.24 | 0.06  | 0.08  | 0.09  | 0.15 | 0.18 | 0.17  | 0.12 | A  |
| NO0015R | 0.09 | 0.07 | 0.05  | 0.07  | 0.06 | 0.07  | 0.06  | 0.09  | 0.06 | 0.07 | 0.10  | 0.07 | A  |
| NO0039R | 0.02 | 0.13 | 0.02  | 0.05  | 0.07 | 0.03  | 0.02  | 0.08  | 0.03 | 0.05 | 0.15  | 0.07 | A  |
| NO0041R | 0.04 | 0.04 | 0.10  | 0.05  | 0.28 | 0.05  | 0.08  | 0.14  | 0.11 | 0.10 | 0.05  | 0.02 | A  |
| NO0055R | 0.07 | 0.06 | 0.06  | 0.15  | 0.32 | 0.06  | 0.06  | 0.03  | 0.06 | 0.10 | 0.04  | 0.20 | A  |
| PL0002R | 0.48 | 0.30 | 0.57  | 0.40  | 0.24 | 0.18  | 0.32  | 0.25  | 0.10 | 0.26 | 0.12  | 0.31 | B  |
| PL0003R | 0.55 | 0.34 | 0.76  | 0.70  | 0.78 | 0.55  | 0.70  | 1.07  | 0.80 | 0.55 | 0.54  | 0.42 | B  |
| PL0004R | 0.21 | 0.31 | 0.30  | 0.25  | 0.20 | 0.33  | 0.26  | 0.18  | 0.50 | 0.09 | 0.24  | 0.26 | B  |
| PL0005R | 0.28 | 0.09 | 0.09  | 0.81  | 0.21 | 0.30  | 0.32  | 0.35  | 0.50 | 0.19 | 0.11  | 0.12 | A  |

Table 3.21 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PT0001R | 0.17 | -    | 0.24 | 0.35 | 1.30 | -    | -    | 0.67 | 0.51 | 9.69 | -    | 0.25 | A  |
| PT0003R | 0.27 | 0.79 | 0.46 | 0.28 | 0.20 | 0.36 | 0.67 | 0.91 | 0.16 | 0.18 | 0.38 | 0.32 | A  |
| PT0004R | 0.25 | 2.99 | 0.26 | 1.72 | 0.20 | -    | -    | 1.00 | 0.80 | 0.35 | 0.64 | 0.46 | A  |
| RU0001R | 0.28 | 0.11 | 0.19 | 0.27 | 0.59 | 0.02 | 0.04 | 0.13 | 0.14 | 0.15 | 0.09 | 0.02 | B  |
| RU0013R | 0.28 | 0.19 | 0.21 | 0.28 | 0.26 | 0.24 | 0.33 | 0.17 | 0.20 | 0.31 | 0.20 | 0.03 | B  |
| RU0016R | 0.94 | 1.54 | 1.55 | 1.30 | 1.22 | 0.40 | 0.51 | 0.57 | 0.57 | 0.35 | 2.78 | 1.11 | B  |
| RU0018R | -    | -    | -    | -    | -    | 0.52 | 0.43 | 0.26 | 0.34 | 0.54 | 0.17 | 0.10 | B  |
| SE0002R | 0.17 | 0.14 | 0.25 | 0.30 | 0.19 | 0.15 | 0.15 | 0.16 | 0.20 | 0.23 | 0.34 | 0.41 | B  |
| SE0005R | 0.04 | 0.09 | 0.11 | 0.16 | 0.14 | 0.10 | 0.10 | 0.05 | 0.07 | 0.04 | 0.03 | 0.03 | B  |
| SE0011R | 0.16 | 0.13 | 0.21 | 0.36 | 0.20 | 0.16 | 0.23 | 0.10 | 0.11 | 0.13 | 0.12 | 0.19 | B  |
| SE0012R | 0.26 | 0.18 | 0.23 | 0.20 | 0.20 | 0.23 | 0.37 | 0.36 | 0.31 | 0.87 | 0.17 | 0.12 | B  |
| SK0002R | 0.56 | 0.25 | 0.44 | 0.54 | 0.45 | 0.28 | 0.23 | 0.29 | 0.65 | 0.51 | 0.61 | 0.33 | A  |
| SK0004R | 0.20 | 0.25 | 0.22 | 0.50 | 0.74 | 0.38 | 0.39 | 0.27 | 0.51 | 0.36 | 0.34 | 0.38 | A  |
| SK0005R | 0.88 | 0.51 | 0.85 | 0.78 | 0.37 | 0.31 | 0.41 | 0.54 | 0.28 | 0.23 | 0.22 | 0.44 | A  |
| SK0006R | 0.31 | 0.32 | 0.34 | 0.64 | 0.47 | 0.33 | 0.30 | 0.29 | 0.35 | 0.29 | 0.13 | 0.41 | A  |
| TR0001R | -    | -    | 2.48 | 5.70 | 2.35 | 1.22 | 1.50 | 3.60 | -    | 1.55 | 1.81 | 1.22 | B  |
| YU0005R | 0.95 | 1.15 | 6.25 | 0.92 | -    | -    | -    | 1.14 | 1.49 | 1.30 | 1.78 | 0.79 | B  |
| YU0008R | 2.03 | 0.41 | 1.33 | 1.38 | 3.23 | 1.25 | 1.19 | 1.60 | 0.64 | 0.68 | 0.50 | 0.09 | B  |

Table 3.22: Calcium in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 98  | 96  | 93  | A  |
| AT0004R | 98  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 99  | 99  | A  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | A  |
| CH0002R | 96  | 99  | 97  | 96  | 98  | 99  | 98  | 97  | 99  | 99  | 97  | 99  | A  |
| CH0004R | 98  | 99  | 96  | 91  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CH0005R | 95  | 99  | 97  | 92  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | A  |
| CZ0001R | 100 | 84  | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | B  |
| CZ0003R | 98  | 99  | 99  | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | B  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 99  | 99  | 98  | 99  | 98  | A  |
| DE0002R | 97  | 90  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 85  | 99  | A  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 98  | 99  | 99  | A  |
| DE0004R | 99  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 97  | 99  | A  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 97  | 92  | 98  | A  |
| DE0008R | 98  | 99  | 99  | 99  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 97  | 97  | 98  | 100 | 98  | 99  | 99  | 99  | 98  | 97  | 96  | 99  | A  |
| DK0003R | 98  | 97  | 97  | 91  | 94  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 98  | 95  | 87  | 99  | 92  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 99  | 96  | 76  | 100 | 58  | 99  | 100 | 98  | 100 | 96  | 92  | 90  | B  |
| EE0011R | 96  | 97  | 100 | 96  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | B  |
| ES0001R | 100 | 100 | 95  | 94  | 97  | 91  | 0   | 100 | 100 | 98  | 100 | 94  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 92  | 98  | 90  | 90  | 100 | 100 | 98  | 97  | 95  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 99  | 94  | 90  | 94  | 68  | 0   | 100 | 98  | 99  | 100 | 100 | A  |
| ES0008R | 100 | 100 | 98  | 92  | 79  | 100 | 100 | 53  | 88  | 94  | 100 | 75  | A  |
| ES0009R | 100 | 98  | 89  | 98  | 97  | 100 | 98  | 95  | 97  | 98  | 93  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| ES0012R | 100 | 97  | 100 | 98  | 100 | 90  | 100 | 100 | 100 | 100 | 92  | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

Table 3.22 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | B  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | B  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | B  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 87  | 99  | 100 | 100 | 100 | 45  | 79  | B  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| LV0010R | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 98  | B  |
| LV0016R | 97  | 99  | 93  | 93  | 97  | 100 | 76  | 98  | 98  | 99  | 89  | 98  | B  |
| NL0009R | 96  | 73  | 90  | 96  | 51  | 95  | 99  | 91  | 93  | 96  | 95  | 97  | A  |
| NO0001R | 82  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 98  | 96  | 99  | A  |
| NO0008R | 96  | 100 | 97  | 93  | 98  | 98  | 99  | 98  | 99  | 99  | 99  | 99  | A  |
| NO0015R | 70  | 75  | 73  | 97  | 95  | 93  | 93  | 92  | 94  | 98  | 85  | 96  | A  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | A  |
| NO0041R | 91  | 98  | 98  | 100 | 94  | 99  | 100 | 100 | 95  | 98  | 96  | 98  | A  |
| NO0055R | 70  | 65  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 87  | 88  | 94  | A  |
| PL0002R | 83  | 94  | 98  | 99  | 98  | 99  | 99  | 99  | 89  | 97  | 98  | 99  | B  |
| PL0003R | 99  | 94  | 95  | 98  | 90  | 99  | 85  | 99  | 99  | 98  | 98  | 96  | B  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | B  |
| PL0005R | 94  | 98  | 95  | 89  | 100 | 99  | 100 | 100 | 99  | 100 | 100 | 97  | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0013R | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | B  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | B  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | B  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 83  | 98  | 98  | 100 | 65  | 100 | 100 | 90  | 97  | B  |
| YU0005R | 98  | 96  | 58  | 65  | 100 | 100 | 100 | 100 | 94  | 97  | 98  | 95  | B  |
| YU0008R | 100 | 99  | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 95  | 99  | 100 | B  |

*Table 3.23: Monthly weighted averages of pH in precipitation in 1999.  
(pH units).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 4.64 | 4.43 | 4.85 | 4.92 | 5.80 | 4.81 | 5.25 | 5.00 | 4.82 | 4.86 | 4.54 | 4.84 | B  |
| AT0004R | 5.26 | 5.39 | 5.08 | 5.57 | 6.08 | 5.68 | 5.09 | 5.55 | 5.05 | 4.79 | 4.57 | 4.59 | B  |
| AT0005R | 5.07 | 4.60 | 4.94 | 5.00 | 5.34 | 5.53 | 4.97 | 5.20 | 5.15 | 5.00 | 4.64 | 4.92 | B  |
| CH0002R | 5.47 | 5.17 | 5.16 | 5.31 | 5.43 | 5.68 | 5.11 | 5.08 | 4.79 | 5.18 | 5.08 | 5.47 | A  |
| CH0004R | 4.87 | 4.86 | 4.87 | 5.16 | 5.05 | 4.96 | 4.84 | 4.87 | 4.87 | 5.07 | 4.70 | 5.08 | A  |
| CH0005R | 4.85 | 4.79 | 5.12 | 4.97 | 4.79 | 5.15 | 4.77 | 4.91 | 4.88 | 5.13 | 4.82 | 4.98 | A  |
| CZ0001R | 4.64 | 4.42 | 4.43 | 5.06 | 5.04 | 4.86 | 6.30 | 5.08 | 5.02 | 4.53 | 4.41 | 4.65 | A  |
| CZ0003R | 4.64 | 4.48 | 4.42 | 4.72 | 4.75 | 4.36 | 4.87 | 5.71 | 5.02 | 4.47 | 4.46 | 4.63 | A  |
| DE0001R | 4.57 | 4.72 | 5.02 | 4.80 | 4.78 | 5.06 | 4.68 | 4.82 | 4.96 | 4.95 | 5.19 | 4.96 | A  |
| DE0002R | 4.86 | 5.19 | 5.16 | 5.91 | 5.56 | 5.40 | 5.01 | 5.70 | 5.38 | 5.13 | 5.87 | 5.27 | A  |
| DE0003R | 4.77 | 4.91 | 4.73 | 5.06 | 5.34 | 4.92 | 5.12 | 5.00 | 4.96 | 5.16 | 4.80 | 4.91 | A  |
| DE0004R | 4.89 | 4.72 | 4.93 | 5.15 | 5.27 | 4.68 | 4.62 | 5.49 | 4.76 | 4.85 | 4.62 | 4.93 | A  |
| DE0005R | 4.72 | 4.44 | 4.80 | 4.77 | 5.16 | 4.90 | 4.72 | 5.03 | 5.01 | 4.84 | 4.42 | 4.74 | A  |
| DE0007R | 4.56 | 4.88 | 4.56 | 5.06 | 5.06 | 4.55 | 4.92 | 5.49 | 5.23 | 4.91 | 4.70 | 4.98 | A  |
| DE0008R | 4.45 | 4.44 | 4.61 | 4.81 | 4.66 | 5.11 | 4.77 | 4.94 | 4.93 | 4.51 | 4.47 | 4.61 | A  |
| DE0009R | 4.67 | 4.52 | 4.50 | 5.53 | 5.59 | 5.05 | 4.80 | 5.92 | 6.07 | 4.91 | 5.56 | 5.48 | A  |
| DK0003R | 4.62 | 4.76 | 4.58 | 5.15 | 4.54 | 4.99 | -    | -    | -    | -    | -    | -    | A  |
| DK0005R | 4.71 | 4.98 | 4.53 | 5.13 | 4.75 | 4.53 | -    | 5.69 | 5.75 | 4.99 | 5.36 | 5.17 | A  |
| DK0008R | 4.44 | 4.98 | 4.71 | 4.80 | 4.67 | 4.74 | 5.64 | 5.01 | 4.77 | 4.50 | 4.76 | 4.60 | A  |
| EE0009R | 4.55 | 4.62 | 4.38 | 4.97 | 5.41 | 5.22 | 5.24 | 5.23 | 4.76 | 4.67 | 4.58 | 4.70 | B  |
| EE0011R | 4.53 | 4.94 | 4.80 | 4.98 | 5.43 | 5.18 | 4.65 | 5.14 | 5.31 | 4.74 | 4.34 | 4.41 | B  |
| ES0001R | -    | 5.57 | 6.19 | 5.66 | 6.00 | 6.31 | 5.99 | 6.40 | 6.29 | 5.87 | 6.24 | 6.36 | B  |
| ES0004R | -    | 6.62 | 6.38 | 6.39 | 6.55 | 6.39 | 6.62 | 6.45 | 6.51 | 6.50 | 6.10 | 5.45 | B  |
| ES0007R | -    | 6.38 | 6.45 | 6.43 | 6.71 | 6.85 | 6.85 | -    | 6.56 | 6.28 | 6.38 | 6.63 | B  |
| ES0008R | -    | 4.77 | 4.78 | 4.80 | 5.31 | 4.72 | 5.23 | 4.42 | 4.89 | 4.64 | 5.18 | 5.68 | B  |
| ES0009R | -    | 5.14 | 6.25 | 5.92 | 6.34 | 6.23 | 6.23 | 6.55 | 5.83 | 5.86 | 5.31 | 6.31 | B  |
| ES0010R | -    | -    | 6.38 | 6.69 | 6.60 | 6.83 | -    | 6.83 | 6.43 | 6.27 | 7.17 | 6.90 | B  |
| ES0011R | -    | -    | -    | 5.68 | 5.49 | 6.40 | -    | 6.45 | 5.97 | 5.81 | 6.85 | 6.39 | B  |
| ES0012R | -    | 6.73 | 6.27 | 7.28 | 6.81 | 7.17 | 7.22 | 7.05 | 7.05 | 6.67 | 6.85 | 7.39 | B  |
| FI0004R | 4.44 | 4.67 | 4.53 | 4.42 | 4.67 | 4.71 | 4.74 | 4.83 | 4.71 | 4.81 | 4.63 | 4.66 | A  |
| FI0009R | 4.34 | 4.64 | 4.43 | 4.65 | 4.61 | 4.59 | 4.64 | 4.85 | 4.77 | 4.57 | 4.30 | 4.53 | A  |
| FI0017R | 4.72 | 4.80 | 4.31 | 4.74 | 4.53 | 4.71 | 4.92 | 4.82 | 4.83 | 4.70 | 4.59 | 4.50 | A  |
| FI0022R | 4.62 | 4.58 | 4.46 | 4.60 | 4.88 | 4.78 | 4.85 | 4.93 | 4.96 | 4.79 | 4.72 | 4.74 | A  |
| FR0003R | 4.72 | 5.43 | 5.00 | 5.32 | 5.33 | 5.07 | 5.50 | 6.01 | 5.15 | 5.25 | 5.24 | 5.23 | A  |
| FR0005R | 4.82 | 5.05 | 4.76 | 4.83 | 5.25 | 5.25 | -    | 5.17 | 5.27 | 5.21 | 4.50 | 5.28 | A  |
| FR0008R | 4.69 | 4.66 | 4.89 | 4.77 | 5.21 | 5.21 | 4.96 | 5.06 | 5.03 | 4.92 | 4.44 | 4.86 | A  |
| FR0009R | 4.76 | -    | -    | 4.94 | 6.23 | 5.36 | 4.92 | 5.28 | 4.96 | 4.97 | 4.57 | 4.86 | A  |
| FR0010R | 4.88 | 5.17 | 5.28 | 5.14 | 4.99 | 5.13 | 4.98 | 5.12 | 5.05 | 5.45 | 4.52 | 5.18 | A  |
| FR0012R | 5.50 | 5.14 | 5.65 | 5.20 | 5.38 | 5.23 | 5.21 | 5.45 | 5.08 | 5.20 | 5.22 | 5.07 | A  |
| FR0013R | 4.81 | 4.92 | 4.88 | 5.08 | 5.17 | 4.90 | 5.08 | 4.96 | 5.04 | 4.85 | 4.85 | 4.98 | A  |
| FR0014R | 5.06 | 4.65 | 4.99 | 5.16 | 5.26 | 4.98 | 4.80 | 4.92 | 5.01 | 5.16 | 4.60 | 5.11 | A  |
| GB0002R | 5.18 | 5.45 | 5.00 | 4.88 | 4.92 | 4.70 | 4.63 | 4.54 | 4.80 | 4.68 | 4.80 | 4.91 | A  |
| GB0006R | 5.46 | 5.51 | 5.57 | 5.11 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0013R | 5.30 | 5.68 | 5.16 | 5.50 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0014R | 4.49 | 5.01 | 4.71 | 4.66 | 4.75 | 4.44 | 4.40 | 4.74 | 4.57 | 4.64 | 4.77 | 4.58 | A  |
| GB0015R | 5.37 | 5.33 | 5.12 | 4.83 | 4.93 | 4.88 | 5.05 | 4.95 | 4.94 | 5.18 | 5.16 | 5.07 | A  |
| HU0002R | 5.51 | 6.00 | 5.30 | 5.96 | 6.10 | 5.28 | 6.28 | 6.68 | 5.95 | 5.93 | 5.66 | 5.83 | A  |
| IE0002R | 5.59 | 5.92 | 5.42 | 5.19 | 5.42 | 5.30 | 5.22 | 4.78 | 5.13 | 4.89 | 5.15 | 5.63 | A  |
| IE0003R | 5.51 | 5.60 | 5.39 | 5.69 | 5.07 | 4.95 | 4.75 | 5.27 | 5.35 | 5.16 | 5.58 | 5.64 | A  |
| IS0002R | 6.10 | 6.15 | 6.48 | 6.73 | 6.05 | 5.98 | 5.77 | 5.42 | 5.63 | 5.49 | 5.96 | 5.78 | A  |
| IT0001R | 5.56 | 4.90 | 5.97 | 6.22 | -    | 6.41 | -    | -    | -    | -    | 6.10 | 5.26 | B  |
| IT0004R | 4.70 | -    | 4.56 | 3.84 | 4.82 | 5.64 | 4.56 | 5.00 | 4.92 | 4.63 | 4.47 | 4.42 | A  |
| LT0015R | 4.25 | 4.29 | 4.13 | 5.05 | 4.35 | 5.31 | 5.08 | 5.31 | 5.24 | 5.71 | 4.69 | 5.20 | A  |
| LV0010R | 4.54 | 4.19 | 4.11 | 4.21 | 4.52 | 5.55 | 4.73 | 4.77 | 4.69 | 4.76 | 4.31 | 4.79 | A  |
| LV0016R | 5.01 | 5.12 | 5.22 | 5.39 | 6.02 | 5.86 | 5.96 | 5.67 | 5.36 | 4.96 | 4.92 | 5.24 | A  |
| NL0009R | 5.22 | 5.93 | 5.15 | 5.16 | 6.30 | 5.80 | 5.19 | 5.79 | 5.38 | 5.63 | 5.10 | 5.61 | A  |
| NO0001R | 4.55 | 4.92 | 4.43 | 4.78 | 4.73 | 4.60 | 4.46 | 4.80 | 4.52 | 4.51 | 4.39 | 4.74 | A  |
| NO0008R | 4.84 | 5.07 | 4.79 | 5.55 | 4.82 | 4.86 | 5.17 | 4.83 | 4.67 | 5.22 | 4.79 | 5.17 | A  |
| NO0015R | 5.56 | 5.64 | 4.84 | 5.34 | 5.37 | 5.39 | 5.23 | 5.49 | 5.41 | 5.40 | 5.45 | 5.53 | A  |
| NO0039R | 5.17 | 5.25 | 5.22 | 5.10 | 5.23 | 5.17 | 5.21 | 5.19 | 4.88 | 5.22 | 5.46 | 5.40 | A  |
| NO0041R | 4.75 | 5.00 | 4.66 | 4.85 | 4.56 | 4.81 | 4.97 | 4.97 | 4.98 | 4.97 | 4.72 | 4.91 | A  |
| NO0055R | 4.93 | 5.08 | 4.99 | 4.64 | 4.97 | 4.74 | 5.07 | 5.25 | 5.14 | 5.52 | 5.36 | 4.91 | A  |
| PL0002R | 4.35 | 4.30 | 4.29 | 5.15 | 4.81 | 5.19 | 4.81 | 4.50 | 5.15 | 4.43 | 4.51 | 4.27 | A  |
| PL0003R | 4.21 | 4.13 | 4.00 | 4.36 | 4.48 | 4.79 | 4.67 | 5.09 | 4.94 | 4.37 | 4.10 | 4.36 | A  |

Table 3.23 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PL0004R | 4.39 | 4.33 | 4.27 | 4.83 | 4.90 | 4.86 | 5.63 | 5.49 | 4.43 | 4.68 | 4.28 | 4.57 | A  |
| PL0005R | 4.36 | 4.42 | 4.29 | 4.92 | 4.87 | 5.13 | 5.06 | 5.41 | 4.62 | 4.61 | 4.37 | 4.26 | B  |
| PT0001R | 4.09 | -    | 5.49 | 5.96 | 5.50 | -    | -    | 5.97 | 5.47 | 6.59 | -    | 5.66 | A  |
| PT0003R | 3.96 | 5.83 | 5.72 | 5.23 | 4.77 | 4.98 | 5.24 | 5.77 | 5.54 | 5.38 | 5.00 | 4.79 | A  |
| PT0004R | 4.93 | 6.78 | 5.41 | 5.27 | 4.59 | -    | -    | 6.27 | 6.43 | 5.44 | 5.14 | 5.69 | A  |
| RU0001R | 5.39 | 5.32 | 5.05 | 4.36 | 5.62 | 4.73 | 4.65 | 4.62 | 4.99 | 5.21 | 5.22 | 5.63 | A  |
| RU0013R | 5.09 | 5.33 | 4.50 | 4.87 | 5.42 | 5.60 | 4.83 | 5.21 | 5.21 | 5.15 | 5.83 | 4.91 | A  |
| RU0016R | 4.77 | 5.15 | 4.99 | 5.19 | 5.32 | 4.73 | 5.26 | 5.29 | 5.86 | 4.83 | 4.92 | 5.01 | A  |
| RU0018R | -    | -    | -    | -    | -    | 5.50 | 5.25 | 4.87 | 4.92 | 4.92 | 5.14 | 4.87 | A  |
| SE0002R | 4.37 | 4.48 | 4.39 | 4.79 | 4.58 | 4.62 | 4.54 | 4.80 | 4.42 | 4.56 | 4.17 | 4.67 | A  |
| SE0005R | 4.77 | 5.02 | 4.54 | 4.70 | 4.97 | 4.90 | 5.17 | 4.98 | 4.79 | 5.02 | 4.83 | 4.94 | A  |
| SE0011R | 4.41 | 4.54 | 4.39 | 5.11 | 4.78 | 4.69 | 4.66 | 4.88 | 4.56 | 4.52 | 4.35 | 4.61 | A  |
| SE0012R | 4.59 | 4.45 | 4.28 | 4.62 | 4.69 | 4.98 | 4.68 | 4.75 | 4.56 | 4.60 | 4.21 | 4.64 | A  |
| SK0002R | 4.21 | 4.43 | 4.35 | 4.27 | 4.46 | 4.35 | 4.60 | 4.44 | 4.46 | 4.40 | 4.48 | 4.41 | A  |
| SK0004R | 3.96 | 4.09 | 4.67 | 4.42 | 5.04 | 4.46 | 4.74 | 4.57 | 4.58 | 4.33 | 4.65 | 4.43 | A  |
| SK0005R | 4.22 | 4.46 | 4.30 | 4.47 | 4.47 | 4.37 | 4.68 | 4.80 | 4.53 | 4.25 | 4.42 | 4.55 | A  |
| SK0006R | 3.95 | 4.04 | 4.27 | 4.53 | 4.50 | 4.74 | 4.67 | 4.41 | 4.72 | 4.29 | 4.45 | 4.55 | A  |
| TR0001R | -    | -    | 5.96 | 4.88 | 5.79 | 5.70 | 5.94 | 6.30 | -    | 5.75 | 6.17 | 5.21 | A  |
| YU0005R | 4.62 | 4.86 | 5.72 | 5.42 | -    | -    | -    | 5.38 | 5.78 | 6.25 | 6.26 | 5.52 | A  |
| YU0008R | 5.95 | 5.73 | 6.28 | 6.27 | 6.82 | 6.61 | 5.27 | 6.24 | 6.05 | 6.30 | 6.12 | 5.32 | A  |

Table 3.24: pH in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 99  | 100 | B  |
| AT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | B  |
| AT0005R | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| CH0002R | 99  | 99  | 97  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| CH0004R | 98  | 99  | 98  | 99  | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| CH0005R | 97  | 99  | 100 | 99  | 99  | 99  | 100 | 99  | 100 | 99  | 100 | 99  | A  |
| CZ0001R | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| CZ0003R | 98  | 99  | 100 | 98  | 92  | 64  | 99  | 100 | 100 | 88  | 95  | 99  | A  |
| DE0001R | 99  | 96  | 99  | 97  | 100 | 99  | 98  | 99  | 100 | 99  | 99  | 99  | A  |
| DE0002R | 98  | 91  | 97  | 98  | 99  | 98  | 99  | 100 | 98  | 98  | 88  | 98  | A  |
| DE0003R | 98  | 91  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0004R | 95  | 98  | 99  | 90  | 97  | 94  | 98  | 99  | 99  | 98  | 98  | 99  | A  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 100 | 99  | A  |
| DE0007R | 99  | 98  | 99  | 99  | 100 | 99  | 98  | 99  | 100 | 99  | 97  | 99  | A  |
| DE0008R | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| DE0009R | 98  | 97  | 98  | 100 | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 99  | A  |
| DK0003R | 97  | 94  | 93  | 96  | 97  | 99  | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| DK0005R | 97  | 95  | 92  | 96  | 97  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | A  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| EE0009R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| EE0011R | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0001R | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| ES0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| ES0007R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0009R | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| ES0012R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| FI0004R | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 99  | A  |
| FI0009R | 97  | 94  | 100 | 100 | 100 | 99  | 98  | 100 | 99  | 99  | 92  | 84  | A  |
| FI0017R | 98  | 99  | 100 | 98  | 100 | 99  | 100 | 100 | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 100 | 99  | 99  | 98  | 100 | 99  | 100 | 100 | 100 | 99  | 99  | A  |
| FR0003R | 99  | 96  | 81  | 100 | 100 | 69  | 99  | 99  | 99  | 98  | 98  | 99  | A  |
| FR0005R | 52  | 98  | 96  | 96  | 96  | 97  | 0   | 99  | 99  | 98  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 99  | 99  | 100 | 68  | 66  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 96  | 94  | 99  | 100 | 100 | 99  | 95  | 93  | 96  | A  |
| FR0010R | 73  | 95  | 85  | 98  | 99  | 98  | 97  | 99  | 98  | 99  | 98  | 94  | A  |

Table 3.24 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0012R | 97  | 86  | 51  | 78  | 99  | 99  | 99  | 99  | 99  | 79  | 95  | 91  | A  |
| FR0013R | 66  | 94  | 97  | 96  | 100 | 52  | 99  | 98  | 97  | 98  | 98  | 98  | A  |
| FR0014R | 99  | 45  | 92  | 99  | 100 | 99  | 99  | 99  | 100 | 99  | 98  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 99  | A  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 96  | 98  | 100 | 98  | 99  | 100 | A  |
| IE0003R | 100 | 100 | 99  | 100 | 100 | 99  | 100 | 99  | 99  | 99  | 100 | 100 | A  |
| IS0002R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0001R | 100 | 100 | 100 | 100 | 0   | 100 | 100 | 0   | 0   | 0   | 75  | 100 | B  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 100 | A  |
| LV0016R | 98  | 99  | 99  | 97  | 100 | 100 | 99  | 100 | 100 | 100 | 98  | 100 | A  |
| NL0009R | 99  | 82  | 98  | 100 | 74  | 99  | 99  | 93  | 93  | 99  | 99  | 99  | A  |
| NO0001R | 83  | 99  | 99  | 99  | 99  | 99  | 97  | 99  | 98  | 98  | 99  | 99  | A  |
| NO0008R | 97  | 100 | 96  | 98  | 97  | 99  | 98  | 100 | 99  | 99  | 99  | 99  | A  |
| NO0015R | 71  | 76  | 77  | 94  | 98  | 96  | 90  | 91  | 99  | 99  | 87  | 98  | A  |
| NO0039R | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 99  | 100 | A  |
| NO0041R | 100 | 100 | 98  | 100 | 96  | 100 | 71  | 71  | 96  | 100 | 100 | 100 | A  |
| NO0055R | 94  | 67  | 96  | 98  | 85  | 100 | 80  | 98  | 97  | 94  | 92  | 25  | A  |
| PL0002R | 98  | 94  | 97  | 99  | 98  | 99  | 100 | 99  | 89  | 97  | 98  | 100 | A  |
| PL0003R | 99  | 100 | 100 | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 98  | 100 | 99  | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 99  | B  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | A  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | A  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 99  | 100 | 100 | 100 | 97  | A  |
| SE0002R | 100 | 99  | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 78  | 100 | 99  | A  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | A  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SE0012R | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 86  | 94  | A  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 96  | A  |
| SK0005R | 89  | 78  | 90  | 94  | 96  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | A  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | A  |
| TR0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| YU0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| YU0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |

*Table 3.25: Monthly weighted averages of potassium in precipitation in 1999.  
(Unit: mg K/l).*

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| AT0002R | 0.51 | 0.12 | 0.12 | 0.06 | 0.07 | 0.04 | 0.11 | 0.10 | 0.10 | 0.09 | 0.11 | 0.01 | B  |
| AT0004R | 0.03 | 0.02 | 0.02 | 0.05 | 0.03 | 0.14 | 0.03 | 0.13 | 0.03 | 0.04 | 0.03 | 0.03 | B  |
| AT0005R | 0.02 | 0.04 | 0.04 | 0.02 | 0.04 | 0.03 | 0.03 | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | B  |
| CH0002R | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.03 | B  |
| CH0004R | 0.01 | 0.01 | 0.02 | 0.02 | 0.05 | 0.05 | 0.03 | 0.04 | 0.03 | 0.01 | 0.03 | 0.02 | B  |
| CH0005R | 0.02 | 0.01 | 0.03 | 0.03 | 0.05 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | B  |
| CZ0001R | 0.12 | 0.03 | 0.04 | 0.04 | 0.07 | 0.04 | 0.23 | 0.34 | 0.04 | 0.06 | 0.05 | 0.04 | A  |
| CZ0003R | 0.07 | 0.06 | 0.25 | 0.10 | 0.12 | 0.15 | 0.08 | 0.21 | 0.14 | 0.19 | 0.10 | 0.38 | A  |
| DE0001R | 0.30 | 0.69 | 0.11 | 0.31 | 0.13 | 0.14 | 0.20 | 0.13 | 0.11 | 0.34 | 0.10 | 0.17 | B  |
| DE0002R | 0.03 | 0.07 | 0.15 | 0.20 | 0.17 | 0.07 | 0.16 | 0.08 | 0.05 | 0.08 | 0.09 | 0.05 | B  |
| DE0003R | 0.03 | 0.07 | 0.07 | 0.06 | 0.04 | 0.13 | 0.19 | 0.04 | 0.08 | 0.04 | 0.08 | 0.03 | B  |
| DE0004R | 0.03 | 0.06 | 0.10 | 0.07 | 0.12 | 0.07 | 0.07 | 0.05 | 0.02 | 0.01 | 0.05 | 0.04 | B  |
| DE0005R | 0.03 | 0.26 | 0.06 | 0.06 | 0.23 | 0.14 | 0.12 | 0.10 | 0.17 | 0.32 | 0.18 | 0.08 | B  |
| DE0007R | 0.01 | 0.12 | 0.07 | 0.06 | 0.07 | 0.10 | 0.13 | 0.26 | 0.27 | 0.01 | 0.06 | 0.02 | B  |
| DE0008R | 0.01 | 0.02 | 0.04 | 0.06 | 0.12 | 0.08 | 0.07 | 0.04 | 0.16 | 0.21 | 0.02 | 0.01 | B  |
| DE0009R | 0.12 | 0.03 | 0.03 | 0.09 | 0.17 | 0.09 | 0.10 | 0.23 | 0.09 | 0.01 | 0.01 | 0.02 | B  |
| DK0003R | 0.07 | 0.33 | 0.02 | 0.03 | 0.04 | 0.04 | -    | -    | -    | -    | -    | -    | B  |
| DK0005R | 0.34 | 0.49 | 0.12 | 0.27 | 0.31 | 0.16 | -    | 0.41 | 0.46 | 0.27 | 0.74 | 0.24 | B  |
| DK0008R | 0.12 | 0.34 | 0.05 | 0.17 | 0.24 | 0.09 | 0.12 | 0.05 | 0.18 | 0.17 | 0.59 | 0.51 | B  |
| EE0009R | 0.08 | 0.05 | 0.14 | 0.14 | 0.33 | 0.18 | 0.20 | 0.07 | 0.05 | 0.08 | 0.07 | 0.05 | B  |
| EE0011R | 0.67 | 0.49 | 1.06 | 0.21 | 0.05 | 0.46 | 0.21 | 0.10 | 0.05 | 0.09 | 0.10 | 0.07 | B  |
| ES0001R | -    | 0.04 | 0.13 | 0.11 | 0.09 | 0.14 | -    | 0.16 | 0.07 | 0.07 | 0.18 | 0.13 | A  |
| ES0004R | -    | 0.09 | 0.06 | 0.18 | 0.23 | 0.14 | 0.13 | 0.18 | 0.37 | 0.19 | 0.09 | 0.13 | A  |
| ES0007R | -    | 0.26 | 0.23 | 0.33 | 0.30 | 0.62 | -    | -    | 0.24 | 0.06 | 0.10 | 0.09 | A  |
| ES0008R | -    | 0.28 | 0.20 | 0.37 | 0.16 | 0.71 | 0.28 | 0.20 | 0.13 | 0.25 | 0.32 | 0.61 | A  |
| ES0009R | -    | 0.13 | 0.10 | 0.04 | 0.08 | 0.09 | 0.23 | 0.23 | 0.07 | 0.03 | 0.05 | 0.06 | A  |
| ES0010R | -    | -    | 3.89 | 2.40 | 0.40 | 0.69 | -    | 2.01 | 0.27 | 0.72 | 4.53 | 3.37 | A  |
| ES0011R | -    | -    | -    | 0.43 | 0.21 | 0.64 | -    | 0.59 | 0.05 | 0.11 | 0.44 | 0.30 | A  |
| ES0012R | -    | 0.15 | 0.05 | 0.15 | 0.17 | 0.27 | 0.42 | 0.37 | 0.09 | 0.06 | 0.10 | 0.10 | A  |
| FI0004R | 0.04 | 0.04 | 0.04 | 0.06 | 0.05 | 0.10 | 0.03 | 0.03 | 0.02 | 0.05 | 0.05 | 0.03 | A  |
| FI0009R | 0.25 | 0.31 | 0.29 | 0.09 | 0.60 | 0.12 | 0.09 | 0.12 | 0.07 | 0.11 | 0.11 | 0.23 | A  |
| FI0017R | 0.09 | 0.08 | 0.13 | 0.08 | 0.06 | 0.34 | 0.10 | 0.06 | 0.13 | 0.09 | 0.24 | 0.12 | A  |
| FI0022R | 0.02 | 0.02 | 0.04 | 0.02 | 0.04 | 0.02 | 0.02 | 0.03 | 0.08 | 0.05 | 0.02 | 0.01 | A  |
| FR0003R | 0.03 | 0.04 | 0.05 | 0.06 | 0.09 | 0.17 | 0.44 | 0.53 | 0.12 | 0.03 | 0.04 | 0.19 | A  |
| FR0005R | 0.33 | 0.09 | 0.21 | 0.15 | 0.33 | 0.24 | -    | 0.09 | 0.08 | 0.17 | 0.38 | 0.50 | A  |
| FR0008R | 0.04 | 0.04 | 0.03 | 0.08 | 0.09 | 0.04 | 0.03 | 0.07 | 0.02 | 0.02 | 0.07 | 0.04 | A  |
| FR0009R | 0.04 | -    | -    | 0.04 | 0.11 | 0.02 | 0.04 | 0.04 | 0.02 | 0.03 | 0.06 | 0.04 | A  |
| FR0010R | 0.06 | 0.04 | 0.03 | 0.12 | 0.08 | 0.07 | 0.07 | 0.15 | 0.61 | 0.78 | 0.05 | 0.05 | A  |
| FR0012R | 0.12 | 0.03 | 0.10 | 0.06 | 0.05 | 0.06 | 0.04 | 0.08 | 0.02 | 0.05 | 0.05 | 0.06 | A  |
| FR0013R | 0.07 | 0.14 | 0.07 | 0.20 | 0.10 | 0.15 | 0.04 | 0.07 | 0.10 | 0.16 | 0.08 | 0.49 | A  |
| FR0014R | 0.02 | 0.04 | 0.03 | 0.04 | 0.07 | 0.09 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.03 | A  |
| GB0002R | 0.08 | 0.08 | 0.03 | 0.04 | 0.07 | 0.03 | 0.07 | 0.07 | 0.09 | 0.13 | 0.14 | 0.10 | A  |
| GB0006R | 0.26 | 0.22 | 0.28 | 0.35 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0013R | 0.10 | 0.10 | 0.07 | 0.04 | -    | -    | -    | -    | -    | -    | -    | -    | A  |
| GB0014R | 0.05 | 0.08 | 0.07 | 0.06 | 0.06 | 0.04 | 0.05 | 0.09 | 0.12 | 0.11 | 0.19 | 0.10 | A  |
| GB0015R | 0.12 | 0.88 | 0.06 | 0.05 | 0.14 | 0.04 | 0.06 | 0.11 | 0.08 | 0.20 | 0.12 | 0.08 | A  |
| HU0002R | 0.39 | 0.14 | 0.18 | 0.12 | 0.17 | 0.15 | 0.06 | 0.12 | 0.20 | 0.15 | 0.33 | 0.26 | D  |
| IE0002R | 0.05 | 0.34 | 0.14 | 0.04 | 0.04 | 0.06 | 0.09 | 0.21 | 0.13 | 0.25 | 0.16 | 0.17 | B  |
| IE0003R | 0.17 | 0.12 | 0.07 | 0.12 | 0.04 | 0.05 | 0.06 | 0.20 | 0.18 | 1.52 | 0.25 | 0.38 | B  |
| IT0001R | 0.85 | 0.34 | 0.41 | 0.28 | 1.11 | 0.75 | -    | 1.62 | 0.17 | 0.11 | 0.28 | 0.15 | A  |
| IT0004R | 0.06 | -    | 0.08 | 0.20 | 0.09 | 0.08 | 0.07 | 0.08 | 0.14 | 0.04 | 0.07 | 0.05 | A  |
| LT0015R | 0.12 | 0.15 | 0.09 | 0.13 | 0.10 | 0.07 | 0.17 | 0.10 | 0.10 | 0.18 | 0.37 | 0.37 | A  |
| LV0010R | 0.06 | 0.11 | 0.17 | 0.07 | 0.17 | 0.02 | 0.04 | 0.03 | 0.02 | 0.04 | 0.08 | 0.17 | A  |
| LV0016R | 0.21 | 0.16 | 0.21 | 0.50 | 0.59 | 0.08 | 0.06 | 0.21 | 0.09 | 0.03 | 0.03 | 0.08 | A  |
| NL0009R | 0.10 | 0.25 | 0.13 | 0.15 | 0.07 | 0.10 | 0.22 | 0.15 | 0.10 | 0.21 | 0.19 | 0.34 | A  |
| NO0001R | 0.12 | 0.06 | 0.07 | 0.05 | 0.07 | 0.04 | 0.06 | 0.05 | 0.07 | 0.06 | 0.17 | 0.12 | B  |
| NO0008R | 0.19 | 0.19 | 0.15 | 0.13 | 0.19 | 0.12 | 0.13 | 0.14 | 0.18 | 0.18 | 0.22 | 0.22 | B  |
| NO0015R | 0.13 | 0.10 | 0.08 | 0.08 | 0.03 | 0.10 | 0.10 | 0.14 | 0.08 | 0.05 | 0.09 | 0.13 | B  |
| NO0039R | 0.01 | 0.11 | 0.02 | 0.04 | 0.06 | 0.04 | 0.05 | 0.04 | 0.02 | 0.04 | 0.07 | 0.07 | B  |
| NO0041R | 0.08 | 0.12 | 0.08 | 0.06 | 0.07 | 0.06 | 0.13 | 0.39 | 0.17 | 0.04 | 0.04 | 0.04 | B  |
| NO0055R | 0.24 | 0.16 | 0.16 | 0.15 | 0.16 | 0.07 | 0.17 | 0.07 | 0.12 | 0.23 | 0.07 | 0.27 | B  |
| PL0002R | 0.16 | 0.13 | 0.19 | 0.06 | 0.15 | 0.08 | 0.10 | 0.09 | 0.09 | 0.09 | 0.04 | 0.08 | A  |
| PL0003R | 0.20 | 0.25 | 0.23 | 0.28 | 0.28 | 0.18 | 0.12 | 0.18 | 0.17 | 0.21 | 0.27 | 0.20 | A  |
| PL0004R | 0.06 | 0.13 | 0.10 | 0.08 | 0.15 | 0.33 | 0.20 | 0.07 | 0.19 | 0.04 | 0.10 | 0.12 | A  |
| PL0005R | 0.18 | 0.15 | 0.12 | 0.30 | 0.11 | 0.18 | 0.28 | 0.29 | 0.13 | 0.10 | 0.06 | 0.07 | A  |

Table 3.25 contd.

|         | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | QA |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| PT0001R | 0.04 | -    | 0.04 | 0.07 | 0.04 | -    | -    | 0.14 | 0.11 | 0.16 | -    | 0.07 | A  |
| PT0003R | 0.08 | 0.07 | 0.26 | 0.10 | 0.08 | 0.07 | 0.07 | 0.27 | 0.05 | 0.09 | 0.06 | 0.09 | A  |
| PT0004R | 0.09 | 0.68 | 0.04 | 1.34 | 0.10 | -    | -    | 0.04 | 0.05 | 0.17 | 0.10 | 0.12 | A  |
| RU0001R | 0.50 | 1.31 | 1.19 | 0.60 | 0.94 | 0.46 | 0.22 | 0.13 | 0.16 | 0.46 | 0.46 | 0.30 | B  |
| RU0013R | 0.39 | 0.42 | 0.29 | 0.32 | 0.36 | 0.42 | 0.24 | 0.22 | 0.41 | 0.28 | 0.38 | 0.15 | B  |
| RU0016R | 0.47 | 0.45 | 0.56 | 0.66 | 0.88 | 0.25 | 0.71 | 0.53 | 0.55 | 0.27 | 0.85 | 0.46 | B  |
| RU0018R | -    | -    | -    | -    | -    | 0.31 | 0.32 | 0.15 | 0.25 | 0.29 | 0.51 | 0.27 | B  |
| SE0002R | 0.15 | 0.13 | 0.12 | 0.34 | 0.21 | 0.12 | 0.10 | 0.07 | 0.11 | 0.18 | 0.28 | 0.37 | B  |
| SE0005R | 0.04 | 0.06 | 0.07 | 0.12 | 0.04 | 0.09 | 0.10 | 0.04 | 0.05 | 0.25 | 0.05 | 0.04 | B  |
| SE0011R | 0.12 | 0.14 | 0.14 | 0.24 | 0.11 | 0.08 | 0.14 | 0.10 | 0.06 | 0.11 | 0.07 | 0.16 | B  |
| SE0012R | 0.08 | 0.06 | 0.09 | 0.10 | 0.09 | 0.09 | 0.15 | 0.16 | 0.15 | 0.12 | 0.05 | 0.06 | B  |
| SK0002R | 0.50 | 0.22 | 0.19 | 0.53 | 0.30 | 0.17 | 0.12 | 0.17 | 0.33 | 0.24 | 0.30 | 0.17 | B  |
| SK0004R | 0.23 | 0.21 | 0.22 | 0.26 | 0.23 | 0.18 | 0.10 | 0.22 | 0.20 | 0.19 | 0.20 | 0.17 | B  |
| SK0005R | 0.32 | 0.57 | 0.37 | 0.26 | 0.39 | 0.18 | 0.17 | 0.26 | 0.10 | 0.12 | 0.20 | 0.28 | B  |
| SK0006R | 0.34 | 0.24 | 0.21 | 0.19 | 0.21 | 0.22 | 0.18 | 0.17 | 0.20 | 0.13 | 0.14 | 0.18 | B  |
| TR0001R | -    | -    | 0.89 | 0.84 | 0.73 | 0.61 | 0.47 | 0.35 | -    | 0.23 | 0.45 | 0.25 | D  |
| YU0005R | 0.22 | 0.14 | 0.55 | 0.22 | -    | -    | -    | 0.16 | 0.53 | 1.48 | 0.24 | 0.13 | A  |
| YU0008R | 0.30 | 0.16 | 0.43 | 0.22 | 1.18 | 0.84 | 0.38 | 0.98 | 0.29 | 0.10 | 0.09 | 0.04 | A  |

Table 3.26: Potassium in precipitation 1999. Data completeness (per cent analyzed).

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| AT0002R | 75  | 99  | 100 | 100 | 100 | 100 | 98  | 99  | 99  | 98  | 96  | 93  | B  |
| AT0004R | 98  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 99  | 99  | B  |
| AT0005R | 87  | 80  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | B  |
| CH0002R | 96  | 99  | 97  | 97  | 98  | 99  | 98  | 98  | 99  | 99  | 97  | 99  | B  |
| CH0004R | 98  | 99  | 96  | 99  | 100 | 98  | 100 | 100 | 99  | 100 | 100 | 100 | B  |
| CH0005R | 95  | 99  | 97  | 98  | 99  | 99  | 99  | 99  | 99  | 96  | 100 | 98  | B  |
| CZ0001R | 100 | 84  | 99  | 99  | 94  | 100 | 100 | 100 | 99  | 100 | 87  | 45  | A  |
| CZ0003R | 98  | 99  | 99  | 96  | 92  | 64  | 98  | 100 | 98  | 88  | 93  | 99  | A  |
| DE0001R | 98  | 99  | 98  | 92  | 98  | 99  | 97  | 99  | 99  | 98  | 99  | 98  | B  |
| DE0002R | 97  | 90  | 98  | 98  | 99  | 98  | 100 | 99  | 98  | 98  | 85  | 99  | B  |
| DE0003R | 98  | 91  | 99  | 99  | 99  | 99  | 99  | 99  | 99  | 94  | 99  | 99  | B  |
| DE0004R | 99  | 99  | 99  | 91  | 99  | 94  | 99  | 99  | 99  | 99  | 98  | 99  | B  |
| DE0005R | 99  | 78  | 99  | 99  | 100 | 99  | 99  | 99  | 99  | 97  | 97  | 99  | B  |
| DE0007R | 99  | 96  | 98  | 94  | 98  | 98  | 90  | 97  | 98  | 97  | 92  | 98  | B  |
| DE0008R | 98  | 99  | 99  | 99  | 98  | 98  | 99  | 99  | 99  | 99  | 99  | 99  | B  |
| DE0009R | 97  | 97  | 98  | 100 | 98  | 99  | 99  | 99  | 98  | 97  | 96  | 99  | B  |
| DK0003R | 98  | 97  | 98  | 91  | 94  | 54  | 0   | 0   | 0   | 0   | 0   | 0   | B  |
| DK0005R | 98  | 95  | 98  | 99  | 91  | 99  | 0   | 100 | 100 | 100 | 100 | 100 | B  |
| DK0008R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| EE0009R | 100 | 96  | 76  | 100 | 58  | 99  | 100 | 98  | 100 | 96  | 92  | 90  | B  |
| EE0011R | 96  | 97  | 100 | 96  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | B  |
| ES0001R | 100 | 100 | 95  | 94  | 97  | 91  | 0   | 100 | 100 | 98  | 100 | 94  | A  |
| ES0003R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0004R | 100 | 93  | 92  | 98  | 90  | 90  | 100 | 100 | 98  | 97  | 95  | 98  | A  |
| ES0005R | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| ES0007R | 100 | 99  | 94  | 90  | 94  | 68  | 0   | 100 | 98  | 99  | 100 | 100 | A  |
| ES0008R | 100 | 100 | 98  | 92  | 79  | 100 | 100 | 53  | 88  | 94  | 100 | 75  | A  |
| ES0009R | 100 | 98  | 89  | 98  | 97  | 100 | 98  | 83  | 97  | 98  | 93  | 100 | A  |
| ES0010R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| ES0011R | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | A  |
| ES0012R | 100 | 97  | 100 | 98  | 100 | 90  | 100 | 100 | 100 | 100 | 92  | 100 | A  |
| FI0004R | 99  | 99  | 99  | 100 | 99  | 98  | 100 | 99  | 99  | 99  | 99  | 98  | A  |
| FI0009R | 96  | 91  | 95  | 100 | 86  | 99  | 98  | 100 | 99  | 99  | 89  | 84  | A  |
| FI0017R | 98  | 98  | 99  | 98  | 100 | 99  | 99  | 99  | 100 | 95  | 96  | 99  | A  |
| FI0022R | 100 | 99  | 99  | 99  | 98  | 100 | 99  | 98  | 98  | 100 | 97  | 98  | A  |
| FR0003R | 99  | 95  | 81  | 98  | 97  | 66  | 99  | 99  | 99  | 98  | 97  | 98  | A  |
| FR0005R | 52  | 97  | 95  | 96  | 96  | 93  | 0   | 97  | 98  | 96  | 97  | 81  | A  |
| FR0008R | 100 | 96  | 97  | 98  | 95  | 99  | 65  | 100 | 98  | 98  | 97  | 99  | A  |
| FR0009R | 33  | 0   | 0   | 95  | 94  | 99  | 100 | 98  | 99  | 94  | 93  | 96  | A  |
| FR0010R | 73  | 91  | 85  | 95  | 96  | 97  | 97  | 99  | 98  | 99  | 97  | 94  | A  |
| FR0012R | 97  | 86  | 42  | 76  | 99  | 99  | 99  | 98  | 99  | 79  | 95  | 91  | A  |

Table 3.26 contd.

|         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | QA |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| FR0013R | 64  | 90  | 93  | 95  | 97  | 51  | 98  | 97  | 96  | 96  | 98  | 98  | A  |
| FR0014R | 96  | 37  | 91  | 99  | 100 | 99  | 98  | 98  | 100 | 99  | 97  | 92  | A  |
| GB0002R | 99  | 99  | 99  | 99  | 100 | 99  | 99  | 98  | 99  | 99  | 99  | 100 | A  |
| GB0006R | 84  | 95  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0013R | 99  | 99  | 99  | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | A  |
| GB0014R | 99  | 99  | 99  | 82  | 100 | 99  | 99  | 99  | 99  | 99  | 99  | 99  | A  |
| GB0015R | 99  | 99  | 99  | 99  | 99  | 100 | 98  | 99  | 99  | 100 | 100 | 99  | A  |
| HU0002R | 100 | 76  | 100 | 100 | 100 | 87  | 99  | 100 | 100 | 100 | 45  | 79  | D  |
| IE0002R | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IE0003R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| IT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| IT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LT0015R | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| LV0010R | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 94  | 100 | 100 | 98  | 98  | A  |
| LV0016R | 95  | 99  | 93  | 93  | 97  | 100 | 76  | 98  | 98  | 99  | 91  | 100 | A  |
| NL0009R | 96  | 73  | 90  | 96  | 51  | 95  | 99  | 91  | 93  | 96  | 95  | 97  | A  |
| NO0001R | 98  | 97  | 98  | 96  | 99  | 99  | 95  | 99  | 97  | 99  | 96  | 99  | B  |
| NO0008R | 99  | 100 | 97  | 93  | 98  | 98  | 98  | 98  | 99  | 99  | 99  | 99  | B  |
| NO0015R | 69  | 75  | 73  | 97  | 95  | 96  | 93  | 88  | 94  | 98  | 85  | 96  | B  |
| NO0039R | 97  | 99  | 98  | 100 | 98  | 99  | 99  | 98  | 97  | 99  | 99  | 99  | B  |
| NO0041R | 91  | 98  | 98  | 100 | 94  | 95  | 71  | 78  | 95  | 98  | 96  | 98  | B  |
| NO0055R | 70  | 93  | 82  | 84  | 85  | 98  | 96  | 96  | 97  | 92  | 88  | 25  | B  |
| PL0002R | 83  | 94  | 94  | 99  | 98  | 99  | 99  | 99  | 89  | 97  | 98  | 99  | A  |
| PL0003R | 99  | 94  | 95  | 98  | 90  | 99  | 85  | 99  | 99  | 98  | 98  | 96  | A  |
| PL0004R | 93  | 99  | 96  | 99  | 99  | 99  | 98  | 98  | 96  | 97  | 94  | 93  | A  |
| PL0005R | 94  | 98  | 95  | 98  | 100 | 99  | 100 | 100 | 99  | 100 | 98  | 97  | A  |
| PT0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0003R | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | A  |
| PT0004R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 98  | 100 | 100 | 97  | A  |
| RU0001R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0013R | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | B  |
| RU0016R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| RU0018R | 0   | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0002R | 100 | 99  | 89  | 100 | 99  | 100 | 99  | 99  | 100 | 78  | 100 | 99  | B  |
| SE0005R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | B  |
| SE0011R | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | B  |
| SE0012R | 100 | 100 | 100 | 100 | 98  | 99  | 90  | 100 | 99  | 100 | 100 | 100 | B  |
| SK0002R | 89  | 84  | 96  | 97  | 94  | 98  | 98  | 97  | 91  | 99  | 98  | 94  | B  |
| SK0004R | 75  | 78  | 88  | 97  | 93  | 99  | 98  | 99  | 94  | 95  | 92  | 92  | B  |
| SK0005R | 89  | 78  | 90  | 94  | 92  | 96  | 98  | 96  | 97  | 97  | 95  | 66  | B  |
| SK0006R | 68  | 68  | 99  | 99  | 100 | 100 | 97  | 99  | 97  | 98  | 99  | 99  | B  |
| TR0001R | 100 | 100 | 97  | 98  | 92  | 97  | 100 | 65  | 100 | 100 | 90  | 97  | D  |
| YU0005R | 98  | 96  | 58  | 65  | 100 | 100 | 100 | 100 | 94  | 97  | 98  | 95  | A  |
| YU0008R | 100 | 99  | 100 | 100 | 100 | 100 | 96  | 67  | 100 | 95  | 99  | 100 | A  |



## **Annex 4**

### **Seasonal summaries of gases and aerosols**



AT0002R Illmitz Austria

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.88         | 2.16       | 3.31         | 1.83       | 0.72 | 0.83 | 3.32 | 7.66  | 8.91  | 25.6      | 0          | 23           | U          |              |
| SO4--     | 1.35         | 1.62       | 0.77         | 2.96       | 0.07 | 0.12 | 0.73 | 4.59  | 9.78  | 97.8      | 0          | 88           | A          |              |
| SO2       | 4.19         | 3.46       | 3.12         | 2.15       | 0.84 | 1.04 | 2.47 | 12.30 | 13.80 | 44.4      | 0          | 40           | U          |              |

AT0002R Illmitz Austria

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.74         | 1.11       | 1.42         | 1.97       | 0.20 | 0.43 | 1.43 | 3.66 | 5.52 | 81.5      | 0          | 75           | U          |              |
| SO4--     | 0.80         | 0.69       | 0.56         | 2.40       | 0.09 | 0.12 | 0.62 | 1.93 | 3.48 | 100.0     | 0          | 92           | A          |              |
| SO2       | 2.38         | 1.29       | 2.13         | 1.57       | 1.04 | 1.13 | 1.89 | 5.00 | 8.20 | 81.5      | 0          | 75           | U          |              |

AT0002R Illmitz Austria

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.47         | 0.68       | 1.34         | 1.56       | 0.40 | 0.52 | 1.43 | 2.38 | 5.07 | 96.7      | 0          | 89           | U          |              |
| SO4--     | 0.88         | 0.70       | 0.69         | 2.05       | 0.07 | 0.21 | 0.70 | 2.41 | 3.56 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.78         | 0.80       | 0.46         | 3.17       | 0.01 | 0.05 | 0.47 | 2.28 | 4.47 | 81.5      | 0          | 75           | U          |              |

AT0002R Illmitz Austria

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.08         | 1.49       | 2.79         | 1.55       | 1.07 | 1.46 | 2.68 | 6.13 | 8.80 | 100.0     | 0          | 91           | U          |              |
| SO4--     | 1.12         | 0.81       | 0.86         | 2.13       | 0.17 | 0.24 | 0.84 | 2.84 | 3.34 | 96.7      | 0          | 88           | A          |              |
| SO2       | 1.79         | 1.68       | 1.09         | 3.07       | 0.05 | 0.13 | 1.25 | 4.78 | 8.73 | 95.6      | 0          | 87           | U          |              |

AT0004R St. Koloman Austria

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.15         | 1.35       | 0.64         | 2.96       | 0.12 | 0.13 | 0.50 | 3.89 | 5.12 | 32.2      | 0          | 29           | U          |              |
| SO2       | 0.42         | 0.34       | 0.33         | 2.09       | 0.06 | 0.07 | 0.36 | 0.90 | 1.64 | 24.4      | 0          | 22           | U          |              |

AT0004R St. Koloman Austria

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.10         | 0.94       | 0.84         | 2.09       | 0.18 | 0.27 | 0.94 | 2.74 | 4.85 | 51.1      | 0          | 47           | U          |              |
| SO2       | 0.44         | 0.62       | 0.23         | 3.02       | 0.04 | 0.04 | 0.19 | 1.99 | 2.26 | 27.2      | 0          | 25           | U          |              |

AT0004R St. Koloman Austria

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.23         | 0.73       | 1.02         | 1.91       | 0.15 | 0.35 | 1.08 | 2.62 | 3.70 | 66.3      | 0          | 61           | U          |              |
| SO2       | 0.26         | 0.25       | 0.17         | 2.77       | 0.02 | 0.03 | 0.16 | 0.69 | 1.32 | 66.3      | 0          | 61           | U          |              |

AT0004R St. Koloman Austria

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.22         | 1.50       | 1.74         | 2.11       | 0.20 | 0.52 | 1.73 | 5.05 | 6.50 | 84.6      | 0          | 77           | U          |              |
| SO2       | 0.57         | 0.43       | 0.47         | 1.81       | 0.18 | 0.21 | 0.42 | 1.50 | 2.52 | 100.0     | 0          | 91           | U          |              |

AT0005R Vorhegg Austria

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.31         | 1.13       | 1.05         | 1.84       | 0.42 | 0.49 | 0.95 | 2.89 | 6.99 | 47.8      | 0          | 43           | U          |              |
| SO2       | 1.24         | 1.33       | 0.92         | 2.01       | 0.38 | 0.40 | 0.78 | 3.46 | 7.32 | 40.0      | 0          | 36           | U          |              |

AT0005R Vorhegg Austria

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.72         | 0.39       | 0.64         | 1.65       | 0.19 | 0.24 | 0.64 | 1.42 | 2.19 | 68.5      | 0          | 63           | U          |              |
| SO2       | 0.86         | 0.73       | 0.71         | 1.71       | 0.39 | 0.43 | 0.58 | 2.48 | 4.26 | 50.0      | 0          | 46           | U          |              |

AT0005R Vorhegg Austria

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.71         | 0.27       | 0.67         | 1.42       | 0.33 | 0.38 | 0.64 | 1.30 | 1.67 | 94.6      | 0          | 87           | U          |              |
| SO2       | 0.40         | 0.49       | 0.28         | 2.14       | 0.04 | 0.11 | 0.26 | 1.00 | 3.61 | 100.0     | 0          | 92           | U          |              |

AT0005R Vorhegg Austria

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.04         | 0.76       | 0.84         | 1.90       | 0.23 | 0.33 | 0.74 | 2.70 | 3.40 | 100.0     | 0          | 91           | U          |              |
| SO2       | 0.65         | 0.69       | 0.48         | 2.01       | 0.15 | 0.19 | 0.45 | 1.61 | 4.40 | 98.9      | 0          | 90           | U          |              |

BE0001R Offagne Belgium

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.67         | 4.28       | 4.60         | 1.88       | 1.28 | 1.48 | 4.30 | 12.63 | 24.95 | 96.7      | 0          | 87           | U          |              |

BE0001R Offagne Belgium

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.81         | 3.72       | 4.12         | 1.65       | 1.72 | 2.05 | 3.90 | 9.24 | 24.95 | 100.0     | 0          | 92           | U          |              |

BE0001R Offagne Belgium

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.54         | 1.27       | 3.30         | 1.47       | 1.21 | 1.61 | 3.39 | 5.69 | 7.64 | 100.0     | 0          | 92           | U          |              |

BE0001R Offagne Belgium

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.83         | 2.40       | 4.20         | 1.75       | 1.12 | 1.44 | 4.52 | 9.31 | 10.59 | 96.7      | 0          | 88           | U          |              |

BE0032R Eupen Belgium

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.90         | 4.31       | 4.56         | 2.06       | 1.83 | 1.83 | 4.41 | 14.45 | 18.02 | 97.8      | 0          | 88           | U          |              |

BE0032R Eupen Belgium

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.43         | 2.89       | 3.75         | 1.75       | 1.83 | 1.86 | 3.42 | 10.58 | 14.28 | 100.0     | 0          | 92           | U          |              |

BE0032R Eupen Belgium

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.40         | 1.61       | 3.09         | 1.54       | 1.83 | 1.85 | 2.81 | 6.71 | 7.93 | 98.9      | 0          | 91           | U          |              |

BE0032R Eupen Belgium

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.99         | 3.11       | 4.14         | 1.85       | 1.83 | 1.85 | 3.71 | 10.88 | 13.10 | 94.5      | 0          | 86           | U          |              |

BE0035R Vezin Belgium

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 7.91         | 4.10       | 6.95         | 1.67       | 2.36 | 3.06 | 6.65 | 15.96 | 18.62 | 95.6      | 0          | 86           | U          |              |

BE0035R Vezin Belgium

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 6.33         | 2.54       | 5.89         | 1.46       | 3.01 | 3.09 | 5.76 | 10.75 | 15.96 | 95.7      | 0          | 88           | U          |              |

BE0035R Vezin Belgium

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.07         | 1.57       | 4.83         | 1.38       | 2.26 | 2.66 | 4.94 | 7.78 | 9.79 | 100.0     | 0          | 92           | U          |              |

BE0035R Vezin Belgium

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 7.19         | 2.82       | 6.59         | 1.56       | 1.85 | 2.73 | 7.13 | 12.36 | 14.23 | 94.5      | 0          | 86           | U          |              |

CH0001G Jungfraujoeh Switzerland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.11         | 0.15       | 0.06         | 3.09       | 0.01 | 0.01 | 0.05 | 0.38 | 0.97 | 87.8      | 0          | 79           | A          |              |
| SO4--     | 0.06         | 0.06       | 0.04         | 2.24       | 0.02 | 0.02 | 0.04 | 0.21 | 0.27 | 92.2      | 27         | 83           | A          |              |
| SO2       | 0.16         | 0.19       | 0.08         | 3.47       | 0.01 | 0.01 | 0.09 | 0.56 | 0.81 | 100.0     | 0          | 90           | B          |              |
| SPM       | 1.5          | 1.3        | 1.1          | 2.0        | 0.5  | 0.5  | 1.1  | 3.6  | 9.6  | 91.1      | 18         | 82           |            |              |

CH0001G Jungfraujoeh Switzerland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.13         | 0.21       | 0.08         | 2.48       | 0.02 | 0.03 | 0.06 | 0.38 | 1.32 | 83.7      | 0          | 77           | A          |              |
| SO4--     | 0.15         | 0.14       | 0.10         | 2.65       | 0.02 | 0.02 | 0.12 | 0.41 | 0.77 | 98.9      | 14         | 91           | A          |              |
| SO2       | 0.06         | 0.10       | 0.04         | 2.76       | 0.01 | 0.01 | 0.03 | 0.22 | 0.61 | 96.7      | 0          | 89           | B          |              |
| SPM       | 5.0          | 6.7        | 3.0          | 2.5        | 0.5  | 1.0  | 2.4  | 18.4 | 35.9 | 91.3      | 2          | 84           |            |              |

CH0001G Jungfraujoeh Switzerland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.06         | 0.03       | 0.06         | 1.52       | 0.02 | 0.03 | 0.06 | 0.10 | 0.16 | 87.0      | 0          | 80           | A          |              |
| SO4--     | 0.21         | 0.18       | 0.14         | 2.66       | 0.02 | 0.02 | 0.17 | 0.49 | 0.90 | 100.0     | 8          | 92           | A          |              |
| SO2       | 0.04         | 0.03       | 0.03         | 2.02       | 0.01 | 0.01 | 0.03 | 0.08 | 0.16 | 100.0     | 0          | 92           | B          |              |
| SPM       | 5.0          | 4.4        | 3.9          | 2.0        | 1.3  | 1.5  | 3.3  | 14.3 | 22.8 | 100.0     | 0          | 92           |            |              |

CH0001G Jungfraujoeh Switzerland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.09         | 0.10       | 0.06         | 2.53       | 0.01 | 0.01 | 0.06 | 0.31 | 0.52 | 75.8      | 0          | 69           | A          |              |
| SO4--     | 0.10         | 0.11       | 0.06         | 2.64       | 0.02 | 0.02 | 0.06 | 0.34 | 0.57 | 97.8      | 30         | 89           | A          |              |
| SO2       | 0.10         | 0.22       | 0.05         | 2.60       | 0.01 | 0.01 | 0.04 | 0.30 | 1.54 | 97.8      | 0          | 89           | B          |              |
| SPM       | 3.4          | 7.3        | 1.7          | 2.7        | 0.5  | 0.5  | 1.5  | 7.8  | 48.6 | 97.8      | 18         | 89           |            |              |

CH0002R Payerne Switzerland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 7.76         | 3.62       | 6.84         | 1.71       | 1.83 | 2.32 | 7.25 | 13.79 | 16.31 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.78         | 0.53       | 0.61         | 2.08       | 0.07 | 0.17 | 0.62 | 1.85  | 2.44  | 97.8      | 0          | 88           | A          |              |
| SO2       | 1.10         | 0.96       | 0.81         | 2.22       | 0.14 | 0.17 | 0.91 | 2.72  | 5.32  | 100.0     | 0          | 90           | U          |              |
| NH3+NH4+  | 3.72         | 1.94       | 3.16         | 1.87       | 0.42 | 0.90 | 3.37 | 7.22  | 10.49 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 1.27         | 0.90       | 0.95         | 2.29       | 0.09 | 0.24 | 1.03 | 3.01  | 4.06  | 100.0     | 0          | 90           | A          |              |
| SPM       | 23.9         | 14.6       | 19.4         | 2.0        | 3.6  | 5.9  | 19.9 | 49.5  | 66.2  | 100.0     | 0          | 90           |            |              |

CH0002R Payerne Switzerland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.50         | 2.00       | 4.12         | 1.53       | 1.47 | 1.94 | 4.12 | 8.09  | 11.96 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.67         | 0.43       | 0.55         | 1.92       | 0.13 | 0.18 | 0.58 | 1.55  | 2.08  | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.51         | 0.41       | 0.40         | 1.98       | 0.09 | 0.15 | 0.39 | 1.33  | 2.28  | 100.0     | 0          | 92           | U          |              |
| NH3+NH4+  | 4.78         | 3.83       | 3.76         | 1.99       | 0.74 | 1.33 | 3.85 | 11.65 | 25.55 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 1.05         | 0.93       | 0.78         | 2.17       | 0.13 | 0.21 | 0.72 | 3.19  | 4.74  | 100.0     | 0          | 92           | A          |              |
| SPM       | 20.3         | 12.9       | 17.2         | 1.8        | 6.3  | 7.3  | 15.4 | 49.9  | 62.2  | 98.9      | 0          | 91           |            |              |

CH0002R Payerne Switzerland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.12         | 1.06       | 2.94         | 1.42       | 0.93 | 1.76 | 2.98 | 4.84 | 6.34  | 94.6      | 0          | 87           | C          |              |
| SO4--     | 0.77         | 0.43       | 0.66         | 1.78       | 0.17 | 0.25 | 0.66 | 1.54 | 2.09  | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.41         | 0.16       | 0.38         | 1.50       | 0.15 | 0.19 | 0.40 | 0.65 | 0.83  | 91.3      | 0          | 84           | U          |              |
| NH3+NH4+  | 3.69         | 1.75       | 3.38         | 1.52       | 1.26 | 1.50 | 3.29 | 6.74 | 13.14 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.66         | 0.38       | 0.57         | 1.76       | 0.11 | 0.23 | 0.56 | 1.32 | 2.51  | 98.9      | 0          | 91           | A          |              |
| SPM       | 17.5         | 7.8        | 15.9         | 1.6        | 5.4  | 7.9  | 15.0 | 32.0 | 40.8  | 95.7      | 0          | 88           |            |              |

CH0002R Payerne Switzerland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.74         | 2.20       | 5.34         | 1.48       | 1.81 | 2.73 | 5.27 | 10.35 | 12.88 | 98.9      | 0          | 90           | C          |              |
| SO4--     | 0.84         | 0.42       | 0.70         | 1.97       | 0.07 | 0.17 | 0.86 | 1.52  | 1.84  | 98.9      | 0          | 90           | A          |              |
| SO2       | 0.63         | 0.30       | 0.56         | 1.59       | 0.18 | 0.25 | 0.57 | 1.27  | 1.71  | 97.8      | 0          | 89           | U          |              |
| NH3+NH4+  | 3.89         | 1.59       | 3.52         | 1.61       | 1.14 | 1.45 | 3.90 | 6.17  | 8.82  | 85.7      | 0          | 78           | A          |              |
| HNO3+NO3  | 1.16         | 0.78       | 0.90         | 2.20       | 0.12 | 0.18 | 0.93 | 2.59  | 3.36  | 85.7      | 0          | 78           | A          |              |
| SPM       | 24.3         | 11.9       | 21.3         | 1.7        | 6.3  | 7.1  | 24.3 | 44.1  | 64.0  | 86.8      | 0          | 79           |            |              |

CH0003R Tanikon Switzerland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 7.19         | 3.64       | 6.27         | 1.72       | 2.17 | 2.61 | 6.15 | 13.87 | 14.74 | 98.9      | 0          | 89           | C          |              |
| SO2       | 1.55         | 0.84       | 1.39         | 1.57       | 0.46 | 0.72 | 1.33 | 2.91  | 5.30  | 100.0     | 0          | 90           | U          |              |
| SPM       | 23.1         | 16.6       | 17.2         | 2.3        | 2.9  | 3.3  | 17.5 | 54.1  | 67.2  | 91.1      | 0          | 82           |            |              |

CH0003R Tanikon Switzerland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.19         | 1.49       | 3.95         | 1.42       | 1.99 | 2.23 | 3.97 | 6.82 | 8.93 | 100.0     | 0          | 92           | C          |              |
| SO2       | 0.70         | 0.27       | 0.65         | 1.46       | 0.28 | 0.34 | 0.63 | 1.19 | 1.58 | 100.0     | 0          | 92           | U          |              |
| SPM       | 18.6         | 12.6       | 15.2         | 1.9        | 3.6  | 5.0  | 14.8 | 47.2 | 53.6 | 94.6      | 0          | 87           |            |              |

CH0003R Tanikon Switzerland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.04         | 0.89       | 2.92         | 1.33       | 1.47 | 1.90 | 2.96 | 4.36 | 6.74 | 96.7      | 0          | 89           | C          |              |
| SO2       | 0.42         | 0.14       | 0.39         | 1.39       | 0.17 | 0.23 | 0.39 | 0.65 | 1.05 | 100.0     | 0          | 92           | U          |              |
| SPM       | 15.4         | 6.8        | 14.0         | 1.6        | 4.3  | 6.3  | 13.9 | 27.0 | 37.9 | 100.0     | 0          | 92           |            |              |

CH0003R Tanikon Switzerland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.69         | 3.21       | 5.05         | 1.61       | 1.45 | 2.53 | 4.95 | 10.95 | 22.79 | 100.0     | 0          | 91           | C          |              |
| SO2       | 0.63         | 0.34       | 0.56         | 1.57       | 0.24 | 0.28 | 0.51 | 1.41  | 1.97  | 100.0     | 0          | 91           | U          |              |
| SPM       | 21.3         | 10.5       | 18.5         | 1.8        | 4.7  | 6.2  | 20.9 | 39.5  | 48.5  | 100.0     | 0          | 91           |            |              |

CH0004R Chaumont Switzerland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.06         | 1.19       | 1.80         | 1.66       | 0.58 | 0.93 | 1.58 | 4.51 | 6.38 | 97.8      | 0          | 88           | C          |              |
| SO2       | 0.88         | 1.03       | 0.51         | 3.06       | 0.03 | 0.06 | 0.56 | 2.62 | 5.69 | 100.0     | 0          | 90           | U          |              |
| SPM       | 5.8          | 4.4        | 4.7          | 1.9        | 0.5  | 1.5  | 4.7  | 16.0 | 27.1 | 88.9      | 0          | 80           |            |              |

CH0004R Chaumont Switzerland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.85         | 1.38       | 2.58         | 1.55       | 1.06 | 1.25 | 2.43 | 5.89 | 7.75 | 90.2      | 0          | 83           | C          |              |
| SO2       | 0.54         | 0.51       | 0.31         | 3.36       | 0.01 | 0.04 | 0.45 | 1.29 | 2.49 | 93.5      | 0          | 86           | U          |              |
| SPM       | 13.4         | 9.5        | 10.0         | 2.4        | 0.5  | 2.3  | 12.5 | 28.5 | 51.9 | 95.7      | 0          | 88           |            |              |

CH0004R Chaumont Switzerland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.29         | 0.62       | 2.20         | 1.32       | 1.04 | 1.33 | 2.17 | 3.32 | 4.08 | 95.7      | 0          | 88           | C          |              |
| SO2       | 0.51         | 0.41       | 0.32         | 3.23       | 0.01 | 0.02 | 0.37 | 1.38 | 1.78 | 95.7      | 0          | 88           | U          |              |
| SPM       | 13.7         | 7.0        | 12.0         | 1.7        | 4.3  | 4.8  | 12.4 | 26.6 | 33.1 | 92.4      | 0          | 85           |            |              |

CH0004R Chaumont Switzerland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.74         | 1.25       | 2.48         | 1.58       | 0.68 | 1.03 | 2.52 | 5.63 | 6.67 | 100.0     | 0          | 91           | C          |              |
| SO2       | 0.53         | 0.46       | 0.35         | 2.88       | 0.01 | 0.04 | 0.39 | 1.27 | 2.47 | 100.0     | 0          | 91           | U          |              |
| SPM       | 13.9         | 9.5        | 11.3         | 1.9        | 2.9  | 3.7  | 11.7 | 32.2 | 49.0 | 79.1      | 0          | 72           |            |              |

CH0005R Rigi Switzerland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.08         | 1.91       | 1.56         | 2.06       | 0.40 | 0.56 | 1.43 | 5.33 | 10.63 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.31         | 0.28       | 0.22         | 2.39       | 0.02 | 0.05 | 0.22 | 0.93 | 1.37  | 100.0     | 2          | 90           | A          |              |
| SO2       | 0.65         | 0.72       | 0.45         | 2.27       | 0.10 | 0.12 | 0.41 | 1.83 | 3.93  | 100.0     | 0          | 90           | U          |              |
| SPM       | 6.9          | 5.6        | 5.3          | 2.1        | 0.5  | 1.7  | 5.1  | 19.2 | 26.1  | 98.9      | 0          | 89           |            |              |

CH0005R Rigi Switzerland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.59         | 1.30       | 2.34         | 1.56       | 1.18 | 1.23 | 2.20 | 5.42 | 6.89 | 96.7      | 0          | 89           | C          |              |
| SO4--     | 0.58         | 0.42       | 0.45         | 2.11       | 0.06 | 0.12 | 0.49 | 1.50 | 2.02 | 96.7      | 0          | 89           | A          |              |
| SO2       | 0.31         | 0.22       | 0.25         | 2.06       | 0.03 | 0.05 | 0.27 | 0.62 | 1.28 | 96.7      | 0          | 89           | U          |              |
| SPM       | 14.5         | 11.6       | 10.9         | 2.2        | 1.4  | 2.6  | 11.6 | 39.9 | 59.2 | 98.9      | 0          | 91           |            |              |

CH0005R Rigi Switzerland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.23         | 0.57       | 2.16         | 1.30       | 1.05 | 1.38 | 2.21 | 3.31 | 3.80 | 97.8      | 0          | 90           | C          |              |
| SO4--     | 0.63         | 0.36       | 0.54         | 1.75       | 0.11 | 0.21 | 0.52 | 1.32 | 1.88 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.26         | 0.15       | 0.23         | 1.70       | 0.05 | 0.10 | 0.22 | 0.54 | 0.74 | 100.0     | 0          | 92           | U          |              |
| SPM       | 13.1         | 5.8        | 11.8         | 1.6        | 1.8  | 5.1  | 11.8 | 23.6 | 25.8 | 100.0     | 0          | 92           |            |              |

CH0005R Rigi Switzerland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.80         | 1.55       | 2.41         | 1.75       | 0.53 | 0.92 | 2.38 | 5.57 | 8.09 | 100.0     | 0          | 91           | C          |              |
| SO4--     | 0.46         | 0.34       | 0.35         | 2.15       | 0.05 | 0.08 | 0.35 | 1.15 | 1.44 | 87.9      | 0          | 80           | A          |              |
| SO2       | 0.37         | 0.47       | 0.26         | 2.06       | 0.06 | 0.09 | 0.26 | 0.84 | 3.94 | 100.0     | 0          | 91           | U          |              |
| SPM       | 12.6         | 10.0       | 9.6          | 2.1        | 2.5  | 2.8  | 9.7  | 28.8 | 66.4 | 100.0     | 0          | 91           |            |              |

CZ0001R Svratouch Czech Republic

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.53         | 0.59       | 1.41         | 1.55       | 0.49 | 0.58 | 1.64 | 2.39  | 3.21  | 98.9      | 0          | 89           | U          |              |
| NH4+      | 1.11         | 0.86       | 0.80         | 2.37       | 0.08 | 0.16 | 0.93 | 2.73  | 3.57  | 98.9      | 0          | 89           | U          |              |
| NO3-      | 0.55         | 0.29       | 0.44         | 2.15       | 0.02 | 0.11 | 0.52 | 1.05  | 1.27  | 98.9      | 0          | 89           | U          |              |
| HNO3      | 1.21         | 0.75       | 1.00         | 1.88       | 0.24 | 0.31 | 1.00 | 2.67  | 3.40  | 98.9      | 0          | 89           | U          |              |
| NO2       | 2.41         | 1.29       | 2.07         | 1.79       | 0.20 | 0.93 | 2.00 | 4.74  | 6.50  | 95.6      | 0          | 86           | B          |              |
| SO4--     | 3.37         | 3.12       | 2.15         | 2.77       | 0.21 | 0.34 | 1.87 | 9.14  | 11.88 | 44.4      | 0          | 40           |            |              |
| SO2       | 4.39         | 3.92       | 3.00         | 2.46       | 0.30 | 0.64 | 2.80 | 13.00 | 18.00 | 98.9      | 0          | 89           | A          |              |
| NH3+NH4+  | 2.09         | 1.35       | 1.72         | 1.88       | 0.48 | 0.71 | 1.65 | 4.57  | 5.98  | 85.6      | 0          | 77           | B          |              |
| HNO3+NO3  | 1.57         | 1.02       | 1.29         | 1.88       | 0.33 | 0.54 | 1.16 | 3.63  | 4.55  | 100.0     | 0          | 90           | B          |              |

CZ0001R Svratouch Czech Republic

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.91         | 0.86       | 0.65         | 2.16       | 0.16 | 0.25 | 0.58 | 2.73 | 4.28 | 82.6      | 0          | 76           | U          |              |
| NH4+      | 0.38         | 0.38       | 0.25         | 2.49       | 0.08 | 0.08 | 0.23 | 1.22 | 2.10 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.25         | 0.47       | 0.09         | 3.80       | 0.02 | 0.02 | 0.09 | 1.12 | 3.55 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.95         | 0.45       | 0.80         | 2.04       | 0.07 | 0.16 | 0.93 | 1.67 | 2.07 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.42         | 0.84       | 1.21         | 1.79       | 0.20 | 0.40 | 1.20 | 3.05 | 4.60 | 83.7      | 0          | 77           | B          |              |
| SO4--     | 0.97         | 0.48       | 0.85         | 1.79       | 0.26 | 0.26 | 0.88 | 1.67 | 1.84 | 9.8       | 0          | 9            |            |              |
| SO2       | 2.32         | 1.43       | 1.96         | 1.84       | 0.20 | 0.70 | 2.00 | 5.80 | 7.30 | 98.9      | 0          | 91           | A          |              |
| NH3+NH4+  | 1.31         | 1.20       | 0.96         | 2.13       | 0.24 | 0.33 | 0.87 | 3.69 | 6.38 | 82.6      | 0          | 76           | B          |              |
| HNO3+NO3  | 1.20         | 0.72       | 0.98         | 2.02       | 0.09 | 0.18 | 1.05 | 2.41 | 4.71 | 100.0     | 0          | 92           | B          |              |

CZ0001R Svratouch Czech Republic

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.34         | 0.69       | 1.19         | 1.60       | 0.58 | 0.58 | 1.23 | 2.47 | 4.52 | 100.0     | 0          | 92           | U          |              |
| NH4+      | 0.55         | 0.40       | 0.40         | 2.34       | 0.08 | 0.08 | 0.39 | 1.24 | 2.17 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.23         | 0.18       | 0.16         | 2.71       | 0.02 | 0.02 | 0.18 | 0.56 | 0.68 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.86         | 0.64       | 0.51         | 3.66       | 0.04 | 0.04 | 0.84 | 2.09 | 2.65 | 100.0     | 0          | 92           | U          |              |
| NO2       | 0.97         | 0.73       | 0.71         | 2.34       | 0.10 | 0.20 | 0.70 | 2.49 | 2.80 | 88.0      | 0          | 81           | B          |              |
| SO4--     | 1.18         | 0.47       | 1.09         | 1.54       | 0.36 | 0.36 | 1.14 | 2.05 | 2.21 | 17.4      | 0          | 16           |            |              |
| SO2       | 1.31         | 0.90       | 0.99         | 2.42       | 0.10 | 0.10 | 1.10 | 2.70 | 5.30 | 98.9      | 0          | 91           | A          |              |
| NH3+NH4+  | 1.88         | 0.86       | 1.71         | 1.57       | 0.74 | 0.82 | 1.67 | 3.34 | 4.68 | 100.0     | 0          | 92           | B          |              |
| HNO3+NO3  | 1.10         | 0.71       | 0.80         | 2.54       | 0.06 | 0.10 | 1.02 | 2.55 | 2.99 | 100.0     | 0          | 92           | B          |              |

CZ0001R Svratouch Czech Republic

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.59         | 0.82       | 1.39         | 1.74       | 0.08 | 0.58 | 1.48 | 2.84 | 5.59 | 100.0     | 0          | 91           | U          |              |
| NH4+      | 1.39         | 1.09       | 1.12         | 1.90       | 0.31 | 0.39 | 1.01 | 3.20 | 6.06 | 100.0     | 0          | 91           | U          |              |
| NO3-      | 0.78         | 0.48       | 0.61         | 2.29       | 0.02 | 0.14 | 0.72 | 1.63 | 2.55 | 100.0     | 0          | 91           | U          |              |
| HNO3      | 0.27         | 0.18       | 0.21         | 2.29       | 0.02 | 0.03 | 0.27 | 0.61 | 0.98 | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.39         | 0.75       | 1.10         | 2.28       | 0.10 | 0.10 | 1.50 | 2.60 | 3.60 | 83.5      | 0          | 76           | B          |              |
| SO4--     | 1.17         | 0.85       | 0.97         | 1.84       | 0.41 | 0.41 | 0.92 | 2.57 | 3.56 | 14.3      | 0          | 13           |            |              |
| SO2       | 2.09         | 1.78       | 1.25         | 3.34       | 0.10 | 0.10 | 1.80 | 5.40 | 7.80 | 98.9      | 0          | 90           | A          |              |
| NH3+NH4+  | 2.97         | 1.60       | 2.66         | 1.59       | 0.78 | 1.21 | 2.54 | 5.76 | 9.89 | 100.0     | 0          | 91           | B          |              |
| HNO3+NO3  | 1.05         | 0.58       | 0.88         | 1.91       | 0.09 | 0.25 | 0.99 | 2.10 | 3.17 | 100.0     | 0          | 91           | B          |              |

CZ0003R Kosetice Czech Republic

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.27         | 0.56       | 1.12         | 1.71       | 0.25 | 0.37 | 1.32 | 2.14 | 2.88  | 98.9      | 0          | 89           | U          |              |
| NH4+      | 1.16         | 0.93       | 0.82         | 2.44       | 0.08 | 0.16 | 0.78 | 3.16 | 3.80  | 98.9      | 0          | 89           | U          |              |
| NO3-      | 0.44         | 0.23       | 0.37         | 1.91       | 0.02 | 0.09 | 0.43 | 0.82 | 1.56  | 98.9      | 0          | 89           | U          |              |
| HNO3      | 1.01         | 0.63       | 0.77         | 2.25       | 0.13 | 0.13 | 0.89 | 2.04 | 2.36  | 98.9      | 0          | 89           | U          |              |
| NO2       | 2.99         | 1.08       | 2.78         | 1.50       | 0.90 | 1.16 | 3.00 | 4.97 | 5.70  | 95.6      | 0          | 86           | B          |              |
| SO4--     | 1.34         | 1.17       | 0.88         | 2.74       | 0.10 | 0.10 | 0.85 | 3.47 | 4.20  | 43.3      | 0          | 39           |            |              |
| SO2       | 3.36         | 2.72       | 2.36         | 2.48       | 0.30 | 0.30 | 2.50 | 8.60 | 12.00 | 98.9      | 0          | 89           | A          |              |
| NH3+NH4+  | 2.15         | 1.08       | 1.90         | 1.67       | 0.48 | 0.76 | 1.99 | 4.45 | 5.25  | 100.0     | 0          | 90           | B          |              |
| HNO3+NO3  | 1.31         | 0.86       | 1.00         | 2.24       | 0.16 | 0.22 | 1.01 | 2.63 | 3.29  | 100.0     | 0          | 90           | B          |              |

CZ0003R Kosetice Czech Republic

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.55         | 0.72       | 1.39         | 1.64       | 0.25 | 0.54 | 1.48 | 2.58 | 5.59 | 100.0     | 0          | 92           | U          |              |
| NH4+      | 0.78         | 0.47       | 0.63         | 2.00       | 0.08 | 0.16 | 0.70 | 1.71 | 2.10 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.45         | 0.31       | 0.37         | 1.85       | 0.07 | 0.13 | 0.38 | 1.18 | 1.63 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.33         | 0.48       | 0.17         | 3.52       | 0.02 | 0.02 | 0.18 | 0.89 | 3.25 | 100.0     | 0          | 92           | U          |              |
| NO2       | 2.18         | 1.19       | 1.91         | 1.68       | 0.50 | 0.80 | 1.90 | 4.79 | 6.50 | 98.9      | 0          | 91           | B          |              |
| SO4--     | 1.40         | 0.89       | 1.16         | 1.89       | 0.48 | 0.48 | 1.11 | 3.01 | 3.21 | 14.1      | 0          | 13           |            |              |
| SO2       | 2.17         | 1.35       | 1.82         | 1.83       | 0.40 | 0.70 | 1.85 | 4.90 | 6.50 | 98.9      | 0          | 91           | A          |              |
| NH3+NH4+  | 2.33         | 0.88       | 2.16         | 1.50       | 0.66 | 0.98 | 2.28 | 3.75 | 5.82 | 100.0     | 0          | 92           | B          |              |
| HNO3+NO3  | 0.78         | 0.61       | 0.62         | 1.97       | 0.15 | 0.17 | 0.61 | 1.95 | 3.63 | 100.0     | 0          | 92           | B          |              |

CZ0003R Kosetice Czech Republic

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.53         | 0.84       | 1.37         | 1.61       | 0.58 | 0.58 | 1.40 | 2.59 | 6.17 | 97.8      | 0          | 90           | U          |              |
| NH4+      | 0.65         | 0.54       | 0.46         | 2.51       | 0.08 | 0.08 | 0.54 | 1.86 | 3.03 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.26         | 0.27       | 0.17         | 2.53       | 0.02 | 0.04 | 0.16 | 0.85 | 1.45 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.71         | 0.79       | 0.41         | 3.06       | 0.04 | 0.07 | 0.44 | 1.88 | 4.47 | 97.8      | 0          | 90           | U          |              |
| NO2       | 1.13         | 0.60       | 1.00         | 1.66       | 0.30 | 0.50 | 0.90 | 2.20 | 3.20 | 96.7      | 0          | 89           | B          |              |
| SO4--     | 1.00         | 0.60       | 0.84         | 1.85       | 0.38 | 0.38 | 0.53 | 1.96 | 1.97 | 15.2      | 0          | 14           |            |              |
| SO2       | 1.09         | 0.47       | 0.98         | 1.65       | 0.10 | 0.36 | 1.00 | 2.10 | 2.60 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 2.20         | 1.13       | 1.95         | 1.64       | 0.66 | 0.74 | 2.05 | 3.91 | 7.57 | 97.8      | 0          | 90           | B          |              |
| HNO3+NO3  | 0.97         | 0.90       | 0.68         | 2.38       | 0.09 | 0.14 | 0.65 | 2.31 | 5.55 | 97.8      | 0          | 90           | B          |              |

CZ0003R Kosetice Czech Republic

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 2.19         | 1.43       | 1.72         | 2.09       | 0.25 | 0.45 | 1.60 | 4.48 | 5.43 | 100.0     | 0          | 91           | U          |              |
| NH4+      | 1.37         | 1.10       | 0.98         | 2.42       | 0.08 | 0.16 | 0.93 | 3.84 | 4.58 | 100.0     | 0          | 91           | U          |              |
| NO3-      | 0.79         | 0.39       | 0.71         | 1.57       | 0.23 | 0.36 | 0.74 | 1.51 | 2.24 | 100.0     | 0          | 91           | U          |              |
| HNO3      | 0.37         | 0.27       | 0.27         | 2.40       | 0.02 | 0.07 | 0.29 | 0.86 | 1.09 | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.96         | 0.85       | 1.76         | 1.66       | 0.40 | 0.55 | 1.90 | 3.50 | 5.30 | 97.8      | 0          | 89           | B          |              |
| SO4--     | 1.21         | 0.72       | 1.01         | 1.87       | 0.32 | 0.32 | 1.04 | 2.19 | 3.00 | 16.5      | 0          | 15           |            |              |
| SO2       | 1.57         | 1.35       | 1.13         | 2.34       | 0.10 | 0.25 | 1.20 | 4.90 | 5.90 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 3.56         | 2.18       | 2.99         | 1.81       | 0.87 | 1.29 | 2.58 | 7.71 | 9.93 | 100.0     | 0          | 91           | B          |              |
| HNO3+NO3  | 1.16         | 0.53       | 1.04         | 1.60       | 0.34 | 0.48 | 1.11 | 2.19 | 2.53 | 100.0     | 0          | 91           | B          |              |

DE0001R      Westerland      Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.45         | 2.45       | 2.69         | 2.08       | 0.66 | 0.77 | 2.76 | 8.54 | 12.42 | 97.8      | 0          | 88           | D          |              |
| SO4--     | 0.94         | 0.56       | 0.82         | 1.66       | 0.20 | 0.35 | 0.80 | 1.65 | 3.50  | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.55         | 0.66       | 0.28         | 3.48       | 0.05 | 0.05 | 0.30 | 1.63 | 3.50  | 96.7      | 0          | 87           | D          |              |
| SPM       | 22.0         | 11.7       | 19.2         | 1.7        | 6.0  | 6.9  | 20.0 | 43.0 | 72.0  | 87.8      | 0          | 79           |            |              |

DE0001R      Westerland      Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.17         | 1.46       | 1.84         | 1.75       | 0.72 | 0.78 | 1.80 | 4.19 | 8.73 | 98.9      | 0          | 91           | D          |              |
| SO4--     | 1.00         | 0.54       | 0.87         | 1.74       | 0.10 | 0.30 | 0.90 | 1.80 | 3.50 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.37         | 0.38       | 0.21         | 3.13       | 0.05 | 0.05 | 0.22 | 1.15 | 1.90 | 98.9      | 0          | 91           | D          |              |
| SPM       | 23.1         | 13.7       | 20.0         | 1.7        | 3.0  | 9.6  | 19.0 | 55.8 | 71.0 | 98.9      | 0          | 91           |            |              |

DE0001R      Westerland      Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.35         | 0.58       | 1.22         | 1.58       | 0.27 | 0.57 | 1.26 | 2.28 | 3.30 | 87.0      | 0          | 80           | D          |              |
| SO4--     | 0.71         | 0.34       | 0.64         | 1.63       | 0.20 | 0.21 | 0.70 | 1.29 | 2.00 | 89.1      | 0          | 82           | A          |              |
| SO2       | 0.17         | 0.21       | 0.12         | 2.25       | 0.05 | 0.05 | 0.10 | 0.53 | 1.30 | 73.9      | 0          | 68           | D          |              |
| SPM       | 15.6         | 7.3        | 14.3         | 1.5        | 4.0  | 8.0  | 14.0 | 25.0 | 47.0 | 98.9      | 0          | 91           |            |              |

DE0001R      Westerland      Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.23         | 1.51       | 1.85         | 1.85       | 0.33 | 0.74 | 1.92 | 5.03 | 10.26 | 98.9      | 0          | 90           | D          |              |
| SPM       | 21.2         | 11.9       | 18.2         | 1.8        | 5.0  | 7.0  | 18.0 | 47.5 | 59.0  | 97.8      | 0          | 89           |            |              |

DE0002R      Langenbrugge      Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.73         | 2.32       | 3.08         | 1.89       | 0.84 | 1.00 | 3.03 | 8.51 | 10.02 | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.90         | 0.67       | 0.71         | 1.98       | 0.20 | 0.20 | 0.70 | 2.40 | 3.30  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.15         | 1.37       | 0.69         | 2.80       | 0.05 | 0.10 | 0.75 | 3.79 | 8.60  | 97.8      | 0          | 88           | D          |              |
| SPM       | 19.2         | 12.9       | 15.6         | 1.9        | 4.0  | 6.0  | 15.0 | 43.0 | 61.0  | 95.6      | 0          | 86           |            |              |

DE0002R      Langenbrugge      Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.98         | 1.03       | 1.79         | 1.53       | 0.78 | 1.02 | 1.66 | 3.76 | 7.59 | 98.9      | 0          | 91           | D          |              |
| SO4--     | 0.92         | 0.59       | 0.78         | 1.76       | 0.30 | 0.30 | 0.70 | 2.10 | 2.90 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.61         | 0.96       | 0.32         | 2.91       | 0.05 | 0.10 | 0.25 | 2.05 | 6.45 | 94.6      | 0          | 87           | D          |              |
| SPM       | 24.7         | 15.6       | 20.7         | 1.8        | 7.0  | 8.0  | 20.0 | 55.7 | 89.0 | 98.9      | 0          | 91           |            |              |

DE0002R      Langenbrugge      Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.63         | 0.52       | 1.55         | 1.36       | 0.81 | 0.98 | 1.50 | 2.52 | 3.39 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.63         | 0.28       | 0.56         | 1.67       | 0.10 | 0.26 | 0.60 | 1.14 | 1.40 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.27         | 0.25       | 0.20         | 2.21       | 0.05 | 0.05 | 0.20 | 0.75 | 1.60 | 97.8      | 0          | 90           | D          |              |
| SPM       | 16.1         | 7.8        | 14.6         | 1.6        | 6.0  | 7.0  | 15.0 | 28.5 | 47.0 | 98.9      | 0          | 91           |            |              |

DE0002R      Langenbrugge      Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.32         | 2.12       | 2.82         | 1.75       | 1.02 | 1.25 | 2.70 | 8.19 | 10.62 | 98.9      | 0          | 90           | D          |              |
| SO2       | 0.81         | 0.72       | 0.55         | 2.61       | 0.05 | 0.10 | 0.60 | 2.42 | 3.50  | 94.5      | 0          | 86           | D          |              |
| SPM       | 20.5         | 13.8       | 16.5         | 1.9        | 4.0  | 5.6  | 16.5 | 48.3 | 64.0  | 100.0     | 0          | 91           |            |              |

DE0003R      Schauinsland      Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.21         | 0.61       | 1.10         | 1.54       | 0.54 | 0.62 | 0.96 | 2.52 | 3.63 | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.39         | 0.23       | 0.34         | 1.68       | 0.20 | 0.20 | 0.30 | 0.90 | 1.10 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.25         | 0.48       | 0.10         | 3.08       | 0.05 | 0.05 | 0.05 | 1.23 | 2.95 | 100.0     | 0          | 90           | D          |              |
| SPM       | 5.1          | 4.1        | 3.8          | 2.3        | 0.5  | 0.5  | 4.0  | 14.5 | 19.0 | 100.0     | 5          | 90           |            |              |

DE0003R      Schauinsland      Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.24         | 0.39       | 1.19         | 1.34       | 0.54 | 0.77 | 1.15 | 2.07 | 2.94 | 98.9      | 0          | 91           | D          |              |
| SO4--     | 0.58         | 0.34       | 0.48         | 1.85       | 0.10 | 0.20 | 0.50 | 1.20 | 1.70 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.05         | 0.03       | 0.05         | 1.28       | 0.05 | 0.05 | 0.05 | 0.07 | 0.25 | 98.9      | 0          | 91           | D          |              |
| SPM       | 8.7          | 6.5        | 6.2          | 2.5        | 0.5  | 0.6  | 7.0  | 22.9 | 27.0 | 88.0      | 4          | 81           |            |              |

DE0003R      Schauinsland      Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.13         | 0.29       | 1.10         | 1.27       | 0.63 | 0.71 | 1.11 | 1.61 | 2.55 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.56         | 0.28       | 0.49         | 1.67       | 0.10 | 0.20 | 0.50 | 1.14 | 1.40 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.12         | 0.11       | 0.10         | 1.95       | 0.05 | 0.05 | 0.10 | 0.25 | 0.80 | 84.8      | 0          | 78           | D          |              |
| SPM       | 10.7         | 4.9        | 9.4          | 1.8        | 0.5  | 4.0  | 11.0 | 18.0 | 25.0 | 100.0     | 1          | 92           |            |              |

DE0003R      Schauinsland      Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.33         | 0.61       | 1.22         | 1.52       | 0.18 | 0.81 | 1.14 | 2.30 | 4.17 | 96.7      | 0          | 88           | D          |              |
| SO2       | 0.18         | 0.27       | 0.09         | 2.72       | 0.05 | 0.05 | 0.05 | 0.70 | 1.55 | 100.0     | 0          | 91           | D          |              |
| SPM       | 8.1          | 6.8        | 5.5          | 2.7        | 0.5  | 0.5  | 6.0  | 21.2 | 35.0 | 96.7      | 7          | 88           |            |              |

DE0004R Deuselbach Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.08         | 1.67       | 2.71         | 1.65       | 1.02 | 1.20 | 2.58 | 6.26 | 9.36  | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.56         | 0.35       | 0.49         | 1.67       | 0.20 | 0.20 | 0.50 | 1.10 | 2.70  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.65         | 1.96       | 0.85         | 3.49       | 0.05 | 0.10 | 0.95 | 5.55 | 10.75 | 100.0     | 0          | 90           | D          |              |
| SPM       | 14.1         | 8.5        | 11.9         | 1.8        | 3.0  | 4.0  | 11.0 | 30.6 | 45.0  | 97.8      | 0          | 88           |            |              |

DE0004R Deuselbach Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.93         | 0.62       | 1.85         | 1.33       | 0.93 | 1.32 | 1.77 | 3.53 | 4.02 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.75         | 0.38       | 0.67         | 1.65       | 0.20 | 0.30 | 0.70 | 1.60 | 2.10 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.48         | 0.55       | 0.23         | 3.61       | 0.05 | 0.05 | 0.25 | 1.65 | 2.45 | 100.0     | 0          | 92           | D          |              |
| SPM       | 16.8         | 9.1        | 14.6         | 1.7        | 5.0  | 6.0  | 15.0 | 34.4 | 48.0 | 93.5      | 0          | 86           |            |              |

DE0004R Deuselbach Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.60         | 0.39       | 1.55         | 1.27       | 0.90 | 1.05 | 1.53 | 2.27 | 2.91 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.64         | 0.25       | 0.60         | 1.48       | 0.30 | 0.30 | 0.60 | 1.04 | 1.60 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.26         | 0.28       | 0.17         | 2.51       | 0.05 | 0.05 | 0.15 | 0.72 | 1.70 | 100.0     | 0          | 92           | D          |              |
| SPM       | 14.2         | 5.8        | 13.2         | 1.5        | 5.0  | 7.0  | 14.0 | 22.0 | 45.0 | 100.0     | 0          | 92           |            |              |

DE0004R Deuselbach Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.70         | 1.29       | 2.44         | 1.57       | 0.99 | 1.22 | 2.22 | 5.55 | 6.45 | 100.0     | 0          | 91           | D          |              |
| SO2       | 0.92         | 0.91       | 0.57         | 3.02       | 0.05 | 0.05 | 0.70 | 2.25 | 7.00 | 100.0     | 0          | 91           | D          |              |
| SPM       | 14.2         | 7.2        | 12.4         | 1.7        | 3.0  | 4.0  | 13.0 | 27.9 | 38.0 | 100.0     | 0          | 91           |            |              |

DE0005R Brotjacklriegel Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.45         | 1.43       | 2.15         | 1.64       | 0.75 | 1.03 | 2.04 | 5.24 | 7.98 | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.71         | 0.48       | 0.59         | 1.88       | 0.20 | 0.20 | 0.60 | 1.55 | 2.80 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.77         | 0.90       | 0.38         | 3.69       | 0.05 | 0.05 | 0.50 | 2.70 | 4.45 | 100.0     | 0          | 90           | D          |              |
| SPM       | 7.8          | 5.0        | 6.4          | 2.0        | 0.5  | 2.0  | 7.0  | 18.1 | 25.0 | 98.9      | 0          | 89           |            |              |

DE0005R Brotjacklriegel Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.57         | 0.42       | 1.52         | 1.29       | 0.84 | 0.99 | 1.50 | 2.22 | 3.33 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.87         | 0.57       | 0.71         | 1.95       | 0.20 | 0.20 | 0.80 | 2.10 | 2.80 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.31         | 0.57       | 0.12         | 3.37       | 0.05 | 0.05 | 0.05 | 1.69 | 2.70 | 100.0     | 0          | 92           | D          |              |
| SPM       | 13.1         | 8.3        | 10.8         | 1.9        | 2.0  | 4.0  | 11.0 | 30.0 | 47.0 | 100.0     | 0          | 92           |            |              |

DE0005R Brotjacklriegel Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.35         | 0.30       | 1.32         | 1.23       | 0.81 | 0.99 | 1.29 | 1.84 | 2.76 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.74         | 0.41       | 0.62         | 1.85       | 0.10 | 0.20 | 0.60 | 1.40 | 2.40 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.09         | 0.10       | 0.07         | 1.86       | 0.05 | 0.05 | 0.05 | 0.32 | 0.60 | 100.0     | 0          | 92           | D          |              |
| SPM       | 11.5         | 5.2        | 10.4         | 1.6        | 2.0  | 4.6  | 11.0 | 21.4 | 27.0 | 100.0     | 0          | 92           |            |              |

DE0005R Brotjacklriegel Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.17         | 1.47       | 1.88         | 1.65       | 0.75 | 0.99 | 1.66 | 4.36 | 10.80 | 100.0     | 0          | 91           | D          |              |
| SO2       | 0.44         | 0.68       | 0.17         | 3.99       | 0.05 | 0.05 | 0.05 | 2.07 | 3.30  | 100.0     | 0          | 91           | D          |              |
| SPM       | 10.3         | 7.0        | 7.8          | 2.4        | 0.5  | 1.3  | 8.0  | 23.5 | 39.0  | 100.0     | 4          | 91           |            |              |

DE0007R Neuglobsow Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.05         | 2.04       | 2.51         | 1.85       | 0.90 | 0.96 | 2.49 | 7.22 | 9.90  | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.79         | 0.76       | 0.57         | 2.15       | 0.20 | 0.20 | 0.50 | 2.35 | 4.30  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.22         | 2.03       | 0.50         | 3.66       | 0.05 | 0.05 | 0.45 | 6.45 | 10.25 | 100.0     | 0          | 90           | D          |              |
| SPM       | 17.0         | 12.1       | 13.6         | 2.0        | 3.0  | 5.0  | 13.0 | 42.5 | 58.0  | 100.0     | 0          | 90           |            |              |

DE0007R Neuglobsow Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.44         | 0.55       | 1.37         | 1.38       | 0.84 | 0.94 | 1.26 | 2.40 | 3.69 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.84         | 0.55       | 0.70         | 1.85       | 0.20 | 0.20 | 0.60 | 1.92 | 2.80 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.72         | 1.00       | 0.28         | 4.19       | 0.05 | 0.05 | 0.20 | 2.37 | 5.60 | 100.0     | 0          | 92           | D          |              |
| SPM       | 16.1         | 10.0       | 13.6         | 1.8        | 4.0  | 5.0  | 13.0 | 37.0 | 45.0 | 100.0     | 0          | 92           |            |              |

DE0007R Neuglobsow Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.28         | 0.34       | 1.24         | 1.28       | 0.75 | 0.83 | 1.26 | 1.83 | 2.52 | 98.9      | 0          | 91           | D          |              |
| SO4--     | 0.51         | 0.23       | 0.44         | 1.73       | 0.10 | 0.16 | 0.50 | 0.94 | 1.10 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.38         | 0.62       | 0.17         | 3.32       | 0.05 | 0.05 | 0.10 | 1.44 | 4.50 | 100.0     | 0          | 92           | D          |              |
| SPM       | 11.3         | 5.8        | 10.2         | 1.6        | 5.0  | 5.0  | 10.0 | 21.8 | 35.0 | 100.0     | 0          | 92           |            |              |

DE0007R Neuglobsow Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.57         | 1.50       | 2.25         | 1.64       | 0.75 | 0.99 | 2.13 | 5.25 | 8.43 | 97.8      | 0          | 89           | D          |              |
| SO2       | 0.75         | 1.04       | 0.29         | 4.36       | 0.05 | 0.05 | 0.25 | 2.83 | 5.50 | 98.9      | 0          | 90           | D          |              |
| SPM       | 17.9         | 11.1       | 14.7         | 1.9        | 3.0  | 5.0  | 15.5 | 40.5 | 57.0 | 100.0     | 0          | 91           |            |              |

DE0008R Schmucke Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.85         | 1.67       | 2.47         | 1.69       | 0.84 | 1.15 | 2.22 | 6.02 | 8.61  | 97.8      | 0          | 88           | D          |              |
| SO4--     | 0.47         | 0.32       | 0.40         | 1.76       | 0.20 | 0.20 | 0.40 | 1.00 | 2.10  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.76         | 4.36       | 0.81         | 2.93       | 0.00 | 0.15 | 0.70 | 4.30 | 36.35 | 100.0     | 1          | 90           | D          |              |
| SPM       | 10.7         | 6.9        | 8.2          | 2.3        | 0.5  | 2.5  | 9.0  | 23.0 | 30.0  | 100.0     | 2          | 90           |            |              |

DE0008R Schmucke Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.44         | 0.41       | 1.39         | 1.30       | 0.78 | 0.94 | 1.35 | 2.22 | 2.97 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.70         | 0.41       | 0.61         | 1.73       | 0.20 | 0.26 | 0.60 | 1.60 | 2.20 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.63         | 0.82       | 0.34         | 3.07       | 0.00 | 0.05 | 0.30 | 2.50 | 3.80 | 100.0     | 1          | 92           | D          |              |
| SPM       | 15.9         | 10.1       | 12.5         | 2.2        | 0.5  | 3.0  | 14.0 | 34.0 | 58.0 | 100.0     | 1          | 92           |            |              |

DE0008R Schmucke Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.14         | 0.20       | 1.12         | 1.20       | 0.63 | 0.83 | 1.17 | 1.45 | 1.71 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.55         | 0.26       | 0.49         | 1.61       | 0.20 | 0.20 | 0.50 | 1.00 | 1.60 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.38         | 0.59       | 0.17         | 3.55       | 0.00 | 0.03 | 0.10 | 1.77 | 2.30 | 100.0     | 4          | 92           | D          |              |
| SPM       | 12.7         | 5.9        | 11.3         | 1.7        | 3.0  | 5.0  | 12.0 | 20.4 | 34.0 | 100.0     | 0          | 92           |            |              |

DE0008R Schmucke Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.11         | 1.39       | 1.81         | 1.70       | 0.45 | 0.86 | 1.71 | 5.51 | 8.04 | 100.0     | 0          | 91           | D          |              |
| SO2       | 0.78         | 0.87       | 0.42         | 3.33       | 0.05 | 0.05 | 0.43 | 2.39 | 4.85 | 100.0     | 0          | 91           | D          |              |
| SPM       | 12.1         | 8.7        | 8.8          | 2.4        | 0.5  | 2.0  | 9.5  | 27.9 | 34.0 | 100.0     | 2          | 91           |            |              |

DE0009R Zingst Germany

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.19         | 2.01       | 2.69         | 1.79       | 0.63 | 1.08 | 2.73 | 7.82 | 9.87  | 100.0     | 0          | 90           | D          |              |
| SO4--     | 0.76         | 0.74       | 0.56         | 2.09       | 0.20 | 0.20 | 0.50 | 2.62 | 3.60  | 95.6      | 0          | 86           | A          |              |
| SO2       | 1.41         | 2.30       | 0.78         | 2.59       | 0.15 | 0.20 | 0.60 | 5.43 | 15.55 | 100.0     | 0          | 90           | D          |              |
| SPM       | 19.3         | 13.2       | 15.9         | 1.9        | 5.0  | 5.0  | 16.0 | 45.5 | 71.0  | 100.0     | 0          | 90           |            |              |

DE0009R Zingst Germany

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.88         | 0.63       | 1.79         | 1.37       | 0.96 | 1.04 | 1.71 | 3.23 | 3.54 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.76         | 0.54       | 0.62         | 1.89       | 0.20 | 0.20 | 0.60 | 1.92 | 2.80 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.69         | 0.74       | 0.45         | 2.62       | 0.05 | 0.05 | 0.45 | 2.14 | 4.90 | 100.0     | 0          | 92           | D          |              |
| SPM       | 19.1         | 11.1       | 16.4         | 1.7        | 6.0  | 8.0  | 15.0 | 41.0 | 53.0 | 98.9      | 0          | 91           |            |              |

DE0009R Zingst Germany

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.50         | 0.41       | 1.45         | 1.30       | 0.72 | 0.93 | 1.44 | 2.29 | 2.76 | 100.0     | 0          | 92           | D          |              |
| SO4--     | 0.49         | 0.25       | 0.43         | 1.70       | 0.10 | 0.20 | 0.40 | 1.00 | 1.20 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.37         | 0.29       | 0.27         | 2.37       | 0.05 | 0.05 | 0.30 | 1.00 | 1.45 | 100.0     | 0          | 92           | D          |              |
| SPM       | 13.4         | 5.5        | 12.4         | 1.5        | 6.0  | 6.6  | 12.0 | 24.8 | 34.0 | 100.0     | 0          | 92           |            |              |

DE0009R Zingst Germany

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.87         | 1.48       | 1.49         | 1.94       | 0.42 | 0.56 | 1.39 | 5.05 | 9.39 | 100.0     | 0          | 91           | D          |              |
| SO2       | 1.00         | 1.17       | 0.72         | 2.04       | 0.30 | 0.30 | 0.60 | 3.10 | 6.65 | 100.0     | 0          | 91           | D          |              |
| SPM       | 18.5         | 12.3       | 14.9         | 2.0        | 3.0  | 5.0  | 14.0 | 40.5 | 68.0 | 100.0     | 0          | 91           |            |              |

DK0003R Tange Denmark

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.73         | 0.51       | 0.62         | 1.78       | 0.06 | 0.25 | 0.63 | 1.60 | 3.03 | 100.0     | 1          | 90           | A          |              |
| SO2       | 0.71         | 0.74       | 0.51         | 2.16       | 0.12 | 0.16 | 0.49 | 2.03 | 4.07 | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 2.12         | 1.29       | 1.81         | 1.76       | 0.51 | 0.70 | 1.83 | 4.75 | 6.77 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.98         | 0.88       | 0.66         | 2.55       | 0.05 | 0.12 | 0.67 | 2.74 | 4.87 | 100.0     | 0          | 90           | A          |              |

DK0003R Tange Denmark

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.13         | 0.88       | 0.91         | 1.92       | 0.31 | 0.34 | 0.88 | 2.54 | 5.88  | 97.8      | 0          | 90           | A          |              |
| SO2       | 0.54         | 0.53       | 0.34         | 2.73       | 0.03 | 0.05 | 0.32 | 1.57 | 2.60  | 93.5      | 0          | 86           | A          |              |
| NH3+NH4+  | 3.75         | 2.02       | 3.23         | 1.77       | 0.73 | 1.24 | 3.15 | 6.98 | 10.47 | 95.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 1.23         | 1.09       | 0.84         | 2.59       | 0.03 | 0.19 | 0.84 | 3.08 | 5.31  | 97.8      | 0          | 90           | A          |              |

DK0003R Tange Denmark

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|--------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.86         | 9.51       | 0.77         | 2.08       | 0.26 | 0.33 | 0.72 | 1.81 | 88.42  | 92.4      | 0          | 85           | A          |              |
| SO2       | 0.62         | 3.49       | 0.21         | 2.35       | 0.07 | 0.08 | 0.18 | 0.69 | 32.33  | 92.4      | 0          | 85           | A          |              |
| NH3+NH4+  | 6.65         | 36.40      | 2.43         | 2.13       | 0.83 | 1.07 | 2.10 | 6.09 | 337.71 | 92.4      | 0          | 85           | A          |              |
| HNO3+NO3  | 1.43         | 7.70       | 0.52         | 2.26       | 0.13 | 0.19 | 0.48 | 1.53 | 71.50  | 92.4      | 0          | 85           | A          |              |

DK0003R Tange Denmark

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.93         | 0.75       | 0.70         | 2.21       | 0.03 | 0.22 | 0.62 | 2.48 | 3.38 | 98.9      | 1          | 90           | A          |              |
| SO2       | 0.52         | 0.61       | 0.30         | 2.95       | 0.02 | 0.06 | 0.26 | 1.62 | 3.22 | 98.9      | 0          | 90           | A          |              |
| NH3+NH4+  | 2.52         | 1.34       | 2.20         | 1.72       | 0.53 | 0.84 | 2.05 | 4.72 | 7.66 | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.89         | 0.71       | 0.64         | 2.38       | 0.08 | 0.15 | 0.69 | 2.39 | 3.20 | 98.9      | 0          | 90           | A          |              |

DK0005R Keldsnor Denmark

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.88         | 0.67       | 0.70         | 1.96       | 0.09 | 0.24 | 0.66 | 2.26 | 3.44 | 98.9      | 1          | 89           | A          |              |
| SO2       | 0.97         | 0.95       | 0.65         | 2.60       | 0.05 | 0.11 | 0.70 | 2.50 | 6.41 | 98.9      | 0          | 89           | A          |              |
| NH3+NH4+  | 2.32         | 1.43       | 1.91         | 1.92       | 0.40 | 0.59 | 1.90 | 5.25 | 6.06 | 98.9      | 0          | 89           | A          |              |
| HNO3+NO3  | 1.39         | 1.08       | 1.01         | 2.39       | 0.05 | 0.20 | 1.05 | 3.09 | 5.55 | 98.9      | 0          | 89           | A          |              |

DK0005R Keldsnor Denmark

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.19         | 0.75       | 1.00         | 1.82       | 0.29 | 0.36 | 1.06 | 2.18 | 4.80  | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.83         | 0.65       | 0.58         | 2.51       | 0.06 | 0.09 | 0.67 | 2.03 | 2.95  | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 4.05         | 2.26       | 3.47         | 1.77       | 0.67 | 1.21 | 3.51 | 8.52 | 11.31 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 1.77         | 1.50       | 1.32         | 2.19       | 0.22 | 0.37 | 1.30 | 4.52 | 8.34  | 100.0     | 0          | 92           | A          |              |

DK0005R Keldsnor Denmark

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.18         | 0.59       | 1.06         | 1.60       | 0.47 | 0.48 | 1.09 | 2.22 | 3.35 | 51.1      | 0          | 47           | A          |              |
| SO2       | 0.50         | 0.31       | 0.41         | 1.96       | 0.11 | 0.11 | 0.43 | 1.06 | 1.55 | 51.1      | 0          | 47           | A          |              |
| NH3+NH4+  | 3.20         | 1.17       | 2.96         | 1.54       | 0.62 | 1.15 | 2.89 | 5.38 | 5.88 | 51.1      | 0          | 47           | A          |              |
| HNO3+NO3  | 0.99         | 0.53       | 0.83         | 1.87       | 0.18 | 0.25 | 0.98 | 1.81 | 2.44 | 51.1      | 0          | 47           | A          |              |

DK0005R Keldsnor Denmark

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.23         | 0.83       | 0.99         | 1.99       | 0.21 | 0.28 | 0.95 | 3.02 | 4.01  | 95.6      | 0          | 87           | A          |              |
| SO2       | 0.90         | 0.76       | 0.65         | 2.32       | 0.05 | 0.12 | 0.59 | 2.39 | 4.58  | 95.6      | 0          | 87           | A          |              |
| NH3+NH4+  | 2.82         | 1.73       | 2.38         | 1.83       | 0.50 | 0.74 | 2.56 | 6.11 | 10.19 | 95.6      | 0          | 87           | A          |              |
| HNO3+NO3  | 1.21         | 0.96       | 0.91         | 2.24       | 0.10 | 0.19 | 0.97 | 2.48 | 6.10  | 95.6      | 0          | 87           | A          |              |

DK0008R Anholt Denmark

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.07         | 0.11       | 0.03         | 3.52       | 0.00 | 0.00 | 0.03 | 0.23 | 0.64  | 98.9      | 55         | 89           | U          |              |
| NO2       | 3.22         | 2.47       | 2.44         | 2.15       | 0.50 | 0.64 | 2.68 | 8.19 | 11.92 | 97.8      | 0          | 88           | A          |              |
| SO4--     | 0.64         | 0.51       | 0.52         | 1.86       | 0.14 | 0.19 | 0.49 | 1.72 | 2.74  | 98.9      | 0          | 89           | A          |              |
| SO2       | 0.82         | 1.17       | 0.47         | 2.71       | 0.07 | 0.09 | 0.40 | 3.52 | 6.81  | 98.9      | 0          | 89           | A          |              |
| NH3+NH4+  | 1.17         | 1.12       | 0.74         | 2.79       | 0.03 | 0.14 | 0.80 | 3.59 | 5.31  | 98.9      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.85         | 0.82       | 0.56         | 2.58       | 0.06 | 0.09 | 0.60 | 2.26 | 4.74  | 98.9      | 0          | 89           | A          |              |

DK0008R Anholt Denmark

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.14         | 0.17       | 0.07         | 3.40       | 0.01 | 0.01 | 0.06 | 0.59 | 0.74  | 97.8      | 37         | 90           | U          |              |
| NO2       | 2.39         | 1.63       | 1.91         | 1.98       | 0.35 | 0.59 | 1.92 | 5.82 | 8.00  | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.95         | 0.62       | 0.78         | 1.87       | 0.20 | 0.27 | 0.77 | 1.86 | 3.38  | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.83         | 0.83       | 0.54         | 2.62       | 0.07 | 0.12 | 0.53 | 2.53 | 4.55  | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.93         | 2.01       | 1.29         | 2.41       | 0.22 | 0.34 | 1.21 | 5.92 | 11.98 | 97.8      | 0          | 90           | A          |              |
| HNO3+NO3  | 1.12         | 1.12       | 0.73         | 2.58       | 0.10 | 0.17 | 0.71 | 3.25 | 4.85  | 98.9      | 0          | 91           | A          |              |

DK0008R Anholt Denmark

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.19         | 0.18       | 0.12         | 2.94       | 0.01 | 0.02 | 0.16 | 0.48 | 0.97  | 92.4      | 18         | 85           | U          |              |
| NO2       | 1.41         | 1.25       | 1.15         | 1.84       | 0.24 | 0.50 | 1.04 | 3.07 | 10.73 | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.95         | 0.63       | 0.76         | 2.25       | 0.01 | 0.27 | 0.77 | 1.92 | 4.30  | 92.4      | 2          | 85           | A          |              |
| SO2       | 0.59         | 0.47       | 0.44         | 2.35       | 0.00 | 0.12 | 0.45 | 1.52 | 2.48  | 92.4      | 2          | 85           | A          |              |
| NH3+NH4+  | 1.12         | 0.81       | 0.90         | 2.01       | 0.09 | 0.25 | 0.97 | 2.08 | 5.72  | 92.4      | 0          | 85           | A          |              |
| HNO3+NO3  | 0.69         | 0.46       | 0.55         | 2.16       | 0.01 | 0.13 | 0.63 | 1.28 | 3.33  | 91.3      | 1          | 84           | A          |              |

DK0008R Anholt Denmark

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.15         | 0.13       | 0.08         | 3.96       | 0.00 | 0.00 | 0.13 | 0.42 | 0.50  | 98.9      | 27         | 90           | U          |              |
| NO2       | 2.18         | 1.86       | 1.73         | 1.91       | 0.49 | 0.66 | 1.53 | 5.41 | 11.96 | 100.0     | 0          | 91           | A          |              |
| SO4--     | 0.96         | 0.67       | 0.72         | 2.45       | 0.02 | 0.25 | 0.72 | 2.40 | 2.83  | 98.9      | 3          | 90           | A          |              |
| SO2       | 0.71         | 0.68       | 0.47         | 2.56       | 0.03 | 0.10 | 0.44 | 2.37 | 3.02  | 98.9      | 0          | 90           | A          |              |
| NH3+NH4+  | 1.42         | 1.07       | 1.06         | 2.22       | 0.12 | 0.29 | 1.00 | 3.41 | 4.51  | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.87         | 0.73       | 0.58         | 2.65       | 0.06 | 0.08 | 0.69 | 2.25 | 3.21  | 98.9      | 0          | 90           | A          |              |

EE0009R Lahemaa Estonia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.62         | 0.24       | 0.58         | 1.44       | 0.31 | 0.31 | 0.61 | 1.01 | 1.35  | 34.4      | 0          | 31           | C          |              |
| NO2       | 0.69         | 0.32       | 0.62         | 1.62       | 0.12 | 0.31 | 0.61 | 1.36 | 1.54  | 95.6      | 0          | 86           | C          |              |
| SO4--     | 0.40         | 0.58       | 0.32         | 1.72       | 0.11 | 0.14 | 0.32 | 0.70 | 5.50  | 96.7      | 0          | 87           | B          |              |
| SO2       | 2.14         | 1.97       | 1.47         | 2.54       | 0.04 | 0.29 | 1.48 | 5.78 | 11.36 | 94.4      | 1          | 85           | B          |              |

EE0009R Lahemaa Estonia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.54         | 0.20       | 0.51         | 1.44       | 0.17 | 0.28 | 0.50 | 0.96 | 1.20 | 98.9      | 0          | 91           | C          |              |
| SO4--     | 0.46         | 0.34       | 0.40         | 1.64       | 0.16 | 0.18 | 0.36 | 0.98 | 2.18 | 95.7      | 0          | 88           | B          |              |
| SO2       | 1.27         | 1.46       | 0.64         | 3.86       | 0.04 | 0.04 | 0.78 | 4.49 | 8.78 | 95.7      | 9          | 88           | B          |              |

EE0009R Lahemaa Estonia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.48         | 0.22       | 0.44         | 1.46       | 0.20 | 0.26 | 0.43 | 0.76 | 1.76 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.39         | 0.24       | 0.35         | 1.55       | 0.17 | 0.20 | 0.33 | 0.82 | 1.48 | 100.0     | 0          | 92           | B          |              |
| SO2       | 0.39         | 0.37       | 0.23         | 3.12       | 0.04 | 0.04 | 0.30 | 1.20 | 1.45 | 100.0     | 19         | 92           | B          |              |

EE0009R Lahemaa Estonia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.46         | 0.19       | 0.42         | 1.60       | 0.10 | 0.14 | 0.39 | 0.81 | 0.85 | 37.4      | 0          | 34           | C          |              |
| NO2       | 0.55         | 0.19       | 0.52         | 1.42       | 0.18 | 0.26 | 0.52 | 0.87 | 1.24 | 83.5      | 0          | 76           | C          |              |
| SO4--     | 0.32         | 0.14       | 0.30         | 1.44       | 0.14 | 0.16 | 0.29 | 0.55 | 1.07 | 98.9      | 0          | 90           | B          |              |
| SO2       | 0.39         | 0.44       | 0.23         | 3.08       | 0.04 | 0.04 | 0.29 | 1.00 | 2.61 | 98.9      | 18         | 90           | B          |              |

EE0011R Vilsandi Estonia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.19         | 0.97       | 0.95         | 1.88       | 0.22 | 0.36 | 0.88 | 3.04 | 5.16 | 93.3      | 0          | 84           | U          |              |
| SO2       | 0.85         | 1.04       | 0.41         | 3.64       | 0.03 | 0.05 | 0.35 | 2.59 | 4.86 | 94.4      | 0          | 85           | U          |              |

EE0011R Vilsandi Estonia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.13         | 0.54       | 1.01         | 1.62       | 0.37 | 0.48 | 1.00 | 2.07 | 2.64 | 100.0     | 0          | 92           | U          |              |
| SO2       | 0.63         | 0.64       | 0.42         | 2.42       | 0.06 | 0.09 | 0.40 | 2.08 | 3.43 | 100.0     | 0          | 92           | U          |              |

EE0011R Vilsandi Estonia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.71         | 0.30       | 0.65         | 1.53       | 0.23 | 0.32 | 0.62 | 1.26 | 1.57 | 87.0      | 0          | 80           | U          |              |
| SO2       | 0.29         | 0.18       | 0.24         | 1.77       | 0.08 | 0.09 | 0.23 | 0.61 | 1.05 | 89.1      | 0          | 82           | U          |              |

EE0011R Vilsandi Estonia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.75         | 0.55       | 0.61         | 1.90       | 0.10 | 0.17 | 0.58 | 1.87 | 3.49 | 87.9      | 0          | 80           | U          |              |
| SO2       | 0.54         | 1.21       | 0.22         | 3.48       | 0.03 | 0.03 | 0.20 | 1.77 | 9.70 | 97.8      | 3          | 89           | U          |              |

ES0001R Toledo Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.3          | 0.5        | -            | -          | 0.0  | 0.0  | 0.0  | 1.0   | 2.0   | 95.6      | 65         | 86           |            |              |
| NH4+      | 0.41         | 0.37       | 0.23         | 3.93       | 0.00 | 0.00 | 0.30 | 1.02  | 1.97  | 95.6      | 4          | 86           | U          |              |
| NO2       | 4.99         | 3.61       | 3.36         | 3.11       | 0.15 | 0.15 | 4.40 | 12.60 | 17.90 | 92.2      | 7          | 83           | D          |              |
| SO4--     | 0.49         | 0.25       | 0.44         | 1.67       | 0.11 | 0.18 | 0.44 | 1.01  | 1.36  | 95.6      | 0          | 86           | A          |              |
| SO2       | 1.62         | 3.41       | 0.62         | 3.35       | 0.25 | 0.25 | 0.25 | 6.15  | 20.50 | 91.1      | 57         | 82           | D          |              |
| NH3+NH4+  | 0.07         | 0.07       | 0.05         | 2.45       | 0.01 | 0.01 | 0.05 | 0.19  | 0.44  | 98.9      | 15         | 89           | A          |              |
| HNO3+NO3  | 0.11         | 0.14       | 0.06         | 3.33       | 0.01 | 0.01 | 0.06 | 0.43  | 0.72  | 98.9      | 23         | 89           | A          |              |
| SPM       | 16.3         | 11.5       | 13.9         | 1.7        | 3.0  | 5.3  | 14.0 | 35.4  | 91.0  | 95.6      | 0          | 86           |            |              |

ES0001R Toledo Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.5          | 2.8        | -            | -          | 0.0  | 0.0  | 1.0  | 7.0  | 15.0  | 100.0     | 45         | 92           |            |              |
| NH4+      | 0.24         | 0.26       | 0.13         | 3.77       | 0.00 | 0.00 | 0.17 | 0.82 | 1.53  | 100.0     | 6          | 92           | U          |              |
| NO2       | 4.00         | 2.78       | 2.26         | 4.17       | 0.15 | 0.15 | 4.30 | 8.30 | 10.70 | 100.0     | 18         | 92           | D          |              |
| SO4--     | 0.59         | 0.33       | 0.52         | 1.64       | 0.16 | 0.25 | 0.50 | 1.34 | 1.72  | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.77         | 2.73       | 0.33         | 2.30       | 0.25 | 0.25 | 0.25 | 2.18 | 25.10 | 100.0     | 81         | 92           | D          |              |
| NH3+NH4+  | 0.08         | 0.08       | 0.05         | 2.45       | 0.01 | 0.01 | 0.05 | 0.20 | 0.41  | 100.0     | 15         | 92           | A          |              |
| HNO3+NO3  | 0.12         | 0.16       | 0.05         | 4.01       | 0.01 | 0.01 | 0.05 | 0.39 | 0.90  | 98.9      | 16         | 91           | A          |              |
| SPM       | 16.7         | 11.2       | 14.1         | 1.8        | 5.0  | 5.6  | 15.0 | 32.6 | 76.0  | 100.0     | 0          | 92           |            |              |

ES0001R Toledo Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.1        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 1.0   | 93.5      | 85         | 86           |            |              |
| NH4+      | 0.76         | 0.65       | 0.53         | 2.46       | 0.06 | 0.11 | 0.52 | 2.00 | 3.32  | 97.8      | 0          | 90           | U          |              |
| NO2       | 2.20         | 1.97       | 1.01         | 4.57       | 0.15 | 0.15 | 2.40 | 5.64 | 7.10  | 98.9      | 34         | 91           | D          |              |
| SO4--     | 1.10         | 0.76       | 0.89         | 1.89       | 0.29 | 0.33 | 0.83 | 2.36 | 4.57  | 97.8      | 0          | 90           | A          |              |
| SO2       | 1.39         | 2.55       | 0.52         | 3.36       | 0.25 | 0.25 | 0.25 | 8.70 | 10.50 | 96.7      | 61         | 89           | D          |              |
| NH3+NH4+  | 0.24         | 0.37       | 0.14         | 2.85       | 0.01 | 0.02 | 0.16 | 0.79 | 2.45  | 88.0      | 5          | 81           | A          |              |
| HNO3+NO3  | 0.45         | 0.23       | 0.38         | 1.97       | 0.01 | 0.14 | 0.43 | 0.86 | 1.09  | 100.0     | 0          | 92           | A          |              |
| SPM       | 33.6         | 14.0       | 30.9         | 1.5        | 12.0 | 14.5 | 32.0 | 58.5 | 77.0  | 97.8      | 0          | 90           |            |              |

ES0001R Toledo Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 91.2      | 83         | 83           |            |              |
| NH4+      | 0.37         | 0.58       | 0.12         | 6.17       | 0.00 | 0.00 | 0.17 | 1.74 | 2.67 | 96.7      | 17         | 88           | U          |              |
| NO2       | 1.39         | 1.60       | 0.56         | 4.25       | 0.15 | 0.15 | 0.15 | 4.34 | 6.40 | 100.0     | 48         | 91           | D          |              |
| SO4--     | 0.67         | 0.42       | 0.57         | 1.79       | 0.17 | 0.21 | 0.59 | 1.28 | 2.54 | 96.7      | 0          | 88           | A          |              |
| SO2       | 0.55         | 0.68       | 0.38         | 2.12       | 0.25 | 0.25 | 0.25 | 1.69 | 3.90 | 100.0     | 68         | 91           | D          |              |
| NH3+NH4+  | 0.10         | 0.16       | 0.06         | 2.92       | 0.01 | 0.01 | 0.06 | 0.37 | 1.31 | 98.9      | 9          | 90           | A          |              |
| HNO3+NO3  | 0.32         | 0.21       | 0.25         | 2.32       | 0.01 | 0.09 | 0.28 | 0.70 | 1.15 | 98.9      | 3          | 90           | A          |              |
| SPM       | 18.0         | 14.6       | 13.8         | 2.0        | 4.0  | 5.0  | 12.5 | 40.0 | 88.0 | 89.0      | 0          | 81           |            |              |

## ES0003R Roquetas Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.2          | 0.6        | -            | -          | 0.0  | 0.0  | 0.0  | 1.0   | 3.0   | 91.1      | 72         | 82           |            |              |
| NH4+      | 0.63         | 0.55       | 0.41         | 2.62       | 0.06 | 0.09 | 0.36 | 1.54  | 2.94  | 91.1      | 0          | 82           | U          |              |
| NO2       | 4.74         | 3.59       | 2.43         | 4.70       | 0.15 | 0.15 | 4.20 | 10.29 | 13.60 | 91.1      | 18         | 82           | D          |              |
| SO4--     | 0.93         | 0.43       | 0.84         | 1.59       | 0.35 | 0.39 | 0.80 | 1.82  | 2.08  | 91.1      | 0          | 82           | A          |              |
| SO2       | 0.97         | 1.64       | 0.45         | 2.86       | 0.25 | 0.25 | 0.25 | 4.45  | 9.40  | 98.9      | 59         | 89           | D          |              |
| NH3+NH4+  | 0.84         | 0.71       | 0.63         | 2.09       | 0.16 | 0.22 | 0.65 | 2.02  | 4.01  | 96.7      | 0          | 87           | A          |              |
| HNO3+NO3  | 0.27         | 0.48       | 0.10         | 4.20       | 0.01 | 0.01 | 0.08 | 1.28  | 2.54  | 72.2      | 6          | 65           | A          |              |
| SPM       | 34.3         | 23.3       | 28.9         | 1.8        | 7.0  | 11.1 | 29.5 | 68.8  | 164.0 | 90.0      | 0          | 81           |            |              |

## ES0003R Roquetas Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.8          | 2.3        | -            | -          | 0.0  | 0.0  | 0.0  | 3.7  | 14.0  | 93.5      | 60         | 86           |            |              |
| NH4+      | 0.54         | 0.53       | 0.31         | 3.35       | 0.00 | 0.04 | 0.32 | 1.57 | 2.07  | 94.6      | 1          | 87           | U          |              |
| NO2       | 3.54         | 2.47       | 2.45         | 2.94       | 0.15 | 0.15 | 2.90 | 8.29 | 11.80 | 98.9      | 9          | 91           | D          |              |
| SO4--     | 1.33         | 0.73       | 1.15         | 1.72       | 0.34 | 0.42 | 1.19 | 2.93 | 3.48  | 94.6      | 0          | 87           | A          |              |
| SO2       | 0.76         | 1.80       | 0.34         | 2.41       | 0.25 | 0.25 | 0.25 | 4.22 | 9.40  | 100.0     | 78         | 92           | D          |              |
| NH3+NH4+  | 1.40         | 1.11       | 1.03         | 2.39       | 0.04 | 0.23 | 1.18 | 3.51 | 7.17  | 97.8      | 0          | 90           | A          |              |
| HNO3+NO3  | 1.07         | 0.79       | 0.73         | 2.78       | 0.02 | 0.08 | 0.98 | 2.69 | 3.10  | 100.0     | 0          | 92           | A          |              |
| SPM       | 37.3         | 14.8       | 34.0         | 1.6        | 8.0  | 14.0 | 35.0 | 63.0 | 67.0  | 94.6      | 0          | 87           |            |              |

## ES0003R Roquetas Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 70.7      | 65         | 65           |            |              |
| NH4+      | 0.27         | 0.29       | 0.16         | 3.25       | 0.00 | 0.01 | 0.18 | 0.89 | 1.58 | 96.7      | 4          | 89           | U          |              |
| NO2       | 3.83         | 2.09       | 2.76         | 2.96       | 0.15 | 0.15 | 3.85 | 7.49 | 8.70 | 94.6      | 9          | 87           | D          |              |
| SO4--     | 1.77         | 0.54       | 1.68         | 1.39       | 0.66 | 0.89 | 1.72 | 2.72 | 3.09 | 96.7      | 0          | 89           | A          |              |
| SO2       | 0.69         | 1.15       | 0.39         | 2.38       | 0.25 | 0.25 | 0.25 | 2.39 | 6.40 | 98.9      | 69         | 91           | D          |              |
| NH3+NH4+  | 1.28         | 0.55       | 1.18         | 1.46       | 0.47 | 0.64 | 1.12 | 2.29 | 3.84 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.88         | 0.33       | 0.81         | 1.55       | 0.20 | 0.33 | 0.91 | 1.33 | 2.08 | 98.9      | 0          | 91           | A          |              |
| SPM       | 40.0         | 9.5        | 38.9         | 1.3        | 20.0 | 26.5 | 39.0 | 56.0 | 70.0 | 96.7      | 0          | 89           |            |              |

## ES0003R Roquetas Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 78.0      | 71         | 71           |            |              |
| NH4+      | 0.73         | 0.88       | 0.45         | 2.51       | 0.08 | 0.14 | 0.37 | 2.60 | 4.15  | 90.1      | 0          | 82           | U          |              |
| NO2       | 1.80         | 1.82       | 0.78         | 4.44       | 0.15 | 0.15 | 1.50 | 5.02 | 7.10  | 96.7      | 38         | 88           | D          |              |
| SO4--     | 1.30         | 0.83       | 1.11         | 1.76       | 0.33 | 0.40 | 1.14 | 2.64 | 5.99  | 90.1      | 0          | 82           | A          |              |
| SO2       | 0.96         | 1.93       | 0.45         | 2.78       | 0.25 | 0.25 | 0.25 | 3.56 | 14.10 | 95.6      | 63         | 87           | D          |              |
| NH3+NH4+  | 1.16         | 0.58       | 0.97         | 2.05       | 0.07 | 0.15 | 1.16 | 1.96 | 3.51  | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.77         | 0.59       | 0.50         | 3.49       | 0.01 | 0.01 | 0.56 | 1.91 | 2.92  | 97.8      | 6          | 89           | A          |              |
| SPM       | 33.7         | 17.5       | 30.1         | 1.6        | 9.0  | 12.0 | 30.0 | 65.4 | 108.0 | 90.1      | 0          | 82           |            |              |

ES0004R Logrono Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.2          | 1.2        | -            | -          | 0.0  | 0.0  | 1.0  | 4.0   | 4.0   | 84.4      | 25         | 76           |            |              |
| NH4+      | 0.77         | 0.72       | 0.49         | 2.80       | 0.04 | 0.08 | 0.52 | 2.40  | 2.89  | 84.4      | 0          | 76           | U          |              |
| NO2       | 5.95         | 4.17       | 3.68         | 3.68       | 0.15 | 0.15 | 5.25 | 13.31 | 14.70 | 81.1      | 8          | 73           | D          |              |
| SO4--     | 0.94         | 0.45       | 0.83         | 1.69       | 0.25 | 0.32 | 0.81 | 1.75  | 2.07  | 84.4      | 0          | 76           | A          |              |
| SO2       | 1.10         | 2.57       | 0.45         | 2.89       | 0.25 | 0.25 | 0.25 | 4.08  | 19.30 | 91.1      | 59         | 82           | D          |              |
| NH3+NH4+  | 0.25         | 0.29       | 0.12         | 3.38       | 0.02 | 0.03 | 0.09 | 0.80  | 1.45  | 81.1      | 0          | 73           | A          |              |
| HNO3+NO3  | 0.62         | 0.50       | 0.47         | 2.21       | 0.06 | 0.10 | 0.47 | 1.86  | 2.17  | 97.8      | 0          | 88           | A          |              |
| SPM       | 24.6         | 18.0       | 19.6         | 2.0        | 5.0  | 6.0  | 19.0 | 57.0  | 93.0  | 84.4      | 0          | 76           |            |              |

ES0004R Logrono Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.5          | 2.6        | -            | -          | 0.0  | 0.0  | 0.0  | 7.0  | 12.0  | 90.2      | 43         | 83           |            |              |
| NH4+      | 0.50         | 0.73       | 0.24         | 3.84       | 0.00 | 0.01 | 0.27 | 1.83 | 4.10  | 93.5      | 4          | 86           | U          |              |
| NO2       | 3.24         | 3.17       | 1.52         | 4.50       | 0.15 | 0.15 | 2.45 | 9.85 | 13.50 | 88.0      | 21         | 81           | D          |              |
| SO4--     | 0.99         | 0.56       | 0.86         | 1.69       | 0.31 | 0.41 | 0.83 | 2.03 | 3.28  | 93.5      | 0          | 86           | A          |              |
| SO2       | 0.71         | 1.65       | 0.35         | 2.38       | 0.25 | 0.25 | 0.25 | 2.62 | 12.30 | 83.7      | 65         | 77           | D          |              |
| NH3+NH4+  | 0.90         | 0.63       | 0.65         | 2.57       | 0.02 | 0.12 | 0.66 | 1.94 | 3.02  | 96.7      | 2          | 89           | A          |              |
| HNO3+NO3  | 0.57         | 0.55       | 0.42         | 2.22       | 0.02 | 0.16 | 0.41 | 1.54 | 3.39  | 98.9      | 0          | 91           | A          |              |
| SPM       | 27.8         | 17.4       | 23.5         | 1.8        | 8.0  | 10.0 | 22.0 | 55.6 | 96.0  | 91.3      | 0          | 84           |            |              |

ES0004R Logrono Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 78.3      | 72         | 72           |            |              |
| NH4+      | 0.69         | 0.67       | 0.37         | 3.99       | 0.00 | 0.01 | 0.44 | 1.86 | 3.00  | 85.9      | 2          | 79           | U          |              |
| NO2       | 2.73         | 1.96       | 1.63         | 3.64       | 0.15 | 0.15 | 2.50 | 5.90 | 7.30  | 97.8      | 18         | 90           | D          |              |
| SO4--     | 1.87         | 0.87       | 1.65         | 1.71       | 0.34 | 0.57 | 1.71 | 3.35 | 4.03  | 85.9      | 0          | 79           | A          |              |
| SO2       | 2.35         | 4.10       | 0.77         | 4.11       | 0.25 | 0.25 | 0.25 | 9.88 | 21.20 | 89.1      | 44         | 82           | D          |              |
| NH3+NH4+  | 0.55         | 0.48       | 0.36         | 2.66       | 0.02 | 0.07 | 0.38 | 1.50 | 2.22  | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.20         | 0.14       | 0.17         | 1.62       | 0.09 | 0.09 | 0.15 | 0.53 | 0.73  | 96.7      | 0          | 89           | A          |              |
| SPM       | 32.6         | 14.0       | 30.4         | 1.4        | 14.0 | 17.9 | 28.0 | 57.1 | 105.0 | 84.8      | 0          | 78           |            |              |

ES0004R Logrono Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 82.4      | 75         | 75           |            |              |
| NH4+      | 0.56         | 0.66       | 0.33         | 2.67       | 0.06 | 0.08 | 0.29 | 2.44 | 2.81  | 87.9      | 0          | 80           | U          |              |
| NO2       | 1.81         | 1.78       | 0.83         | 4.21       | 0.15 | 0.15 | 1.30 | 5.16 | 6.20  | 96.7      | 34         | 88           | D          |              |
| SO4--     | 1.05         | 0.72       | 0.85         | 1.93       | 0.22 | 0.30 | 0.78 | 2.71 | 3.21  | 87.9      | 0          | 80           | A          |              |
| SO2       | 0.86         | 0.98       | 0.50         | 2.64       | 0.25 | 0.25 | 0.25 | 2.86 | 4.30  | 97.8      | 56         | 89           | D          |              |
| NH3+NH4+  | 0.52         | 0.71       | 0.26         | 3.62       | 0.01 | 0.02 | 0.32 | 1.43 | 5.51  | 97.8      | 1          | 89           | A          |              |
| HNO3+NO3  | 0.29         | 0.31       | 0.18         | 2.91       | 0.01 | 0.01 | 0.16 | 0.83 | 1.56  | 100.0     | 6          | 91           | A          |              |
| SPM       | 27.3         | 21.2       | 22.1         | 1.9        | 4.0  | 8.9  | 20.0 | 51.1 | 133.0 | 85.7      | 0          | 78           |            |              |

ES0005R Noia Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.3          | 0.5        | -            | -          | 0.0  | 0.0  | 0.0  | 1.0  | 1.0   | 15.6      | 10         | 14           |            |              |
| NH4+      | 0.30         | 0.22       | 0.20         | 3.37       | 0.00 | 0.00 | 0.24 | 0.63 | 0.87  | 15.6      | 0          | 14           | U          |              |
| NO2       | 1.61         | 0.66       | 1.43         | 1.80       | 0.25 | 0.25 | 1.50 | 2.55 | 2.90  | 15.6      | 0          | 14           | D          |              |
| SO4--     | 0.94         | 0.40       | 0.86         | 1.58       | 0.34 | 0.34 | 0.90 | 1.44 | 1.87  | 15.6      | 0          | 14           | A          |              |
| SO2       | 2.18         | 5.42       | 0.57         | 4.08       | 0.25 | 0.25 | 0.25 | 5.10 | 24.30 | 22.2      | 0          | 20           | D          |              |
| NH3+NH4+  | 1.07         | 0.72       | 0.86         | 2.03       | 0.16 | 0.16 | 0.74 | 2.46 | 2.75  | 15.6      | 0          | 14           | A          |              |
| HNO3+NO3  | 0.20         | 0.12       | 0.17         | 1.93       | 0.05 | 0.05 | 0.17 | 0.38 | 0.41  | 21.1      | 0          | 19           | A          |              |
| SPM       | 18.9         | 12.2       | 16.7         | 1.6        | 10.0 | 10.0 | 14.0 | 37.1 | 56.0  | 15.6      | 0          | 14           |            |              |

ES0005R Noia Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| H+        | 0.5          | 0.7        | -            | -          | 0.0  | 0.0  | 0.0  | 2.0  | 2.0  | 16.3      | 10         | 15           |            |              |
| NH4+      | 0.25         | 0.38       | 0.09         | 5.43       | 0.00 | 0.00 | 0.11 | 0.88 | 1.43 | 16.3      | 2          | 15           | U          |              |
| NO2       | 1.55         | 2.04       | 0.62         | 4.26       | 0.15 | 0.15 | 1.00 | 5.83 | 7.70 | 37.0      | 16         | 34           | D          |              |
| SO4--     | 0.83         | 0.43       | 0.72         | 1.74       | 0.35 | 0.35 | 0.81 | 1.56 | 1.75 | 16.3      | 0          | 15           | A          |              |
| SO2       | 0.55         | 0.66       | 0.38         | 2.13       | 0.25 | 0.25 | 0.25 | 1.75 | 3.30 | 38.0      | 26         | 35           | D          |              |
| NH3+NH4+  | 0.85         | 1.20       | 0.44         | 3.01       | 0.09 | 0.10 | 0.34 | 2.85 | 5.80 | 34.8      | 0          | 32           | A          |              |
| HNO3+NO3  | 0.17         | 0.15       | 0.11         | 2.93       | 0.01 | 0.01 | 0.16 | 0.39 | 0.66 | 25.0      | 1          | 23           | A          |              |
| SPM       | 11.4         | 4.0        | 10.9         | 1.4        | 6.0  | 6.0  | 11.0 | 17.0 | 23.0 | 16.3      | 0          | 15           |            |              |

ES0005R Noia Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.2        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 1.0   | 95.7      | 85         | 88           |            |              |
| NH4+      | 0.74         | 1.19       | 0.18         | 7.56       | 0.00 | 0.00 | 0.20 | 2.86 | 6.80  | 95.7      | 11         | 88           | U          |              |
| NO2       | 2.47         | 2.01       | 1.28         | 4.16       | 0.15 | 0.15 | 2.45 | 6.29 | 7.10  | 88.0      | 23         | 81           | D          |              |
| SO4--     | 1.68         | 1.39       | 1.18         | 2.44       | 0.22 | 0.27 | 1.33 | 3.99 | 7.45  | 95.7      | 0          | 88           | A          |              |
| SO2       | 1.50         | 3.20       | 0.54         | 3.38       | 0.25 | 0.25 | 0.25 | 6.24 | 19.30 | 91.3      | 56         | 84           | D          |              |
| NH3+NH4+  | 0.97         | 1.06       | 0.46         | 3.95       | 0.02 | 0.05 | 0.56 | 3.03 | 4.11  | 90.2      | 1          | 83           | A          |              |
| HNO3+NO3  | 0.31         | 0.21       | 0.20         | 3.45       | 0.01 | 0.01 | 0.26 | 0.68 | 1.04  | 87.0      | 10         | 80           | A          |              |
| SPM       | 19.8         | 12.8       | 16.4         | 1.9        | 5.0  | 6.3  | 15.0 | 43.5 | 65.0  | 93.5      | 0          | 86           |            |              |

ES0005R Noia Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 84.6      | 77         | 77           |            |              |
| NH4+      | 0.67         | 1.39       | 0.20         | 4.82       | 0.00 | 0.00 | 0.20 | 4.61 | 6.92  | 84.6      | 5          | 77           | U          |              |
| NO2       | 1.89         | 2.29       | 0.71         | 4.66       | 0.15 | 0.15 | 1.10 | 6.60 | 10.20 | 96.7      | 41         | 88           | D          |              |
| SO4--     | 0.92         | 1.07       | 0.62         | 2.29       | 0.11 | 0.19 | 0.58 | 3.77 | 5.17  | 84.6      | 0          | 77           | A          |              |
| SO2       | 1.21         | 2.19       | 0.51         | 3.11       | 0.25 | 0.25 | 0.25 | 5.80 | 12.20 | 85.7      | 52         | 78           | D          |              |
| NH3+NH4+  | 0.30         | 0.44       | 0.16         | 2.88       | 0.02 | 0.04 | 0.13 | 1.38 | 2.13  | 85.7      | 3          | 78           | A          |              |
| HNO3+NO3  | 0.26         | 0.27       | 0.12         | 4.94       | 0.01 | 0.01 | 0.21 | 0.88 | 1.14  | 76.9      | 19         | 70           | A          |              |
| SPM       | 16.0         | 10.8       | 12.8         | 2.0        | 2.0  | 4.0  | 13.0 | 41.2 | 49.0  | 81.3      | 0          | 74           |            |              |

ES0007R Viznar Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.1          | 0.2        | -            | -          | 0.0  | 0.0  | 0.0  | 0.2   | 1.0   | 85.6      | 73         | 77           |            |              |
| NH4+      | 0.51         | 0.50       | 0.34         | 2.63       | 0.04 | 0.06 | 0.37 | 1.27  | 2.70  | 85.6      | 0          | 77           | U          |              |
| NO2       | 5.58         | 3.32       | 3.96         | 3.04       | 0.15 | 0.15 | 5.15 | 11.27 | 14.50 | 90.0      | 6          | 81           | D          |              |
| SO4--     | 0.84         | 0.45       | 0.74         | 1.69       | 0.15 | 0.26 | 0.77 | 1.70  | 2.60  | 85.6      | 0          | 77           | A          |              |
| SO2       | 0.77         | 1.77       | 0.35         | 2.44       | 0.25 | 0.25 | 0.25 | 4.23  | 11.20 | 95.6      | 70         | 86           | D          |              |
| NH3+NH4+  | 0.96         | 0.86       | 0.71         | 2.20       | 0.08 | 0.20 | 0.62 | 2.56  | 4.55  | 95.6      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.34         | 0.38       | 0.20         | 3.03       | 0.01 | 0.02 | 0.25 | 1.01  | 1.96  | 71.1      | 0          | 64           | A          |              |
| SPM       | 33.4         | 25.6       | 26.3         | 2.0        | 5.0  | 7.0  | 29.0 | 73.0  | 164.0 | 84.4      | 0          | 76           |            |              |

ES0007R Viznar Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.7          | 2.0        | -            | -          | 0.0  | 0.0  | 0.0  | 2.0  | 14.0  | 95.7      | 65         | 88           |            |              |
| NH4+      | 0.39         | 0.40       | 0.21         | 3.97       | 0.00 | 0.00 | 0.29 | 1.41 | 1.64  | 98.9      | 5          | 91           | U          |              |
| NO2       | 3.79         | 2.57       | 2.31         | 3.74       | 0.15 | 0.15 | 3.70 | 7.98 | 11.30 | 91.3      | 14         | 84           | D          |              |
| SO4--     | 1.02         | 0.54       | 0.90         | 1.67       | 0.19 | 0.41 | 0.95 | 2.00 | 3.27  | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.42         | 0.56       | 0.31         | 1.79       | 0.25 | 0.25 | 0.25 | 1.03 | 3.90  | 94.6      | 74         | 87           | D          |              |
| NH3+NH4+  | 1.69         | 1.13       | 1.06         | 4.03       | 0.02 | 0.02 | 1.45 | 3.73 | 5.91  | 98.9      | 8          | 91           | A          |              |
| HNO3+NO3  | 0.41         | 0.22       | 0.33         | 2.21       | 0.03 | 0.04 | 0.38 | 0.80 | 1.03  | 95.7      | 0          | 88           | A          |              |
| SPM       | 40.5         | 23.6       | 35.0         | 1.7        | 9.0  | 12.6 | 37.0 | 73.9 | 150.0 | 98.9      | 0          | 91           |            |              |

ES0007R Viznar Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 20.7      | 19         | 19           |            |              |
| NH4+      | 0.70         | 0.43       | 0.53         | 2.39       | 0.04 | 0.07 | 0.66 | 1.44  | 1.78  | 89.1      | 0          | 82           | U          |              |
| NO2       | 3.59         | 2.17       | 2.54         | 2.96       | 0.15 | 0.15 | 3.40 | 7.16  | 10.20 | 96.7      | 9          | 89           | D          |              |
| SO4--     | 1.61         | 0.79       | 1.44         | 1.63       | 0.35 | 0.63 | 1.46 | 3.30  | 4.49  | 89.1      | 0          | 82           | A          |              |
| SO2       | 0.62         | 0.90       | 0.38         | 2.27       | 0.25 | 0.25 | 0.25 | 2.58  | 4.90  | 88.0      | 62         | 81           | D          |              |
| NH3+NH4+  | 2.06         | 1.40       | 1.69         | 1.97       | 0.07 | 0.56 | 1.79 | 3.93  | 9.10  | 95.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.56         | 0.24       | 0.51         | 1.56       | 0.14 | 0.21 | 0.54 | 0.95  | 1.35  | 88.0      | 0          | 81           | A          |              |
| SPM       | 66.6         | 25.6       | 62.4         | 1.4        | 31.0 | 33.2 | 60.0 | 114.0 | 170.0 | 89.1      | 0          | 82           |            |              |

ES0007R Viznar Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 71.4      | 65         | 65           |            |              |
| NH4+      | 0.33         | 0.40       | 0.12         | 6.47       | 0.00 | 0.00 | 0.18 | 1.21 | 1.73  | 93.4      | 19         | 85           | U          |              |
| NO2       | 2.28         | 2.47       | 1.07         | 4.20       | 0.15 | 0.15 | 1.60 | 7.36 | 10.90 | 97.8      | 28         | 89           | D          |              |
| SO4--     | 0.93         | 0.56       | 0.81         | 1.68       | 0.22 | 0.34 | 0.77 | 1.92 | 3.10  | 94.5      | 0          | 86           | A          |              |
| SO2       | 0.76         | 1.13       | 0.42         | 2.54       | 0.25 | 0.25 | 0.25 | 3.48 | 5.20  | 97.8      | 65         | 89           | D          |              |
| NH3+NH4+  | 1.79         | 1.28       | 1.44         | 1.95       | 0.28 | 0.45 | 1.37 | 4.50 | 6.80  | 95.6      | 0          | 87           | A          |              |
| HNO3+NO3  | 0.44         | 0.23       | 0.38         | 1.78       | 0.10 | 0.13 | 0.41 | 0.80 | 1.15  | 94.5      | 0          | 86           | A          |              |
| SPM       | 35.1         | 30.5       | 27.6         | 2.0        | 6.0  | 10.0 | 30.0 | 64.7 | 220.0 | 94.5      | 0          | 86           |            |              |

ES0008R Niembro Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.7          | 0.9        | -            | -          | 0.0  | 0.0  | 1.0  | 2.0   | 4.0   | 82.2      | 35         | 74           |            |              |
| NH4+      | 0.40         | 0.53       | 0.17         | 4.49       | 0.00 | 0.00 | 0.17 | 1.58  | 2.53  | 82.2      | 4          | 74           | U          |              |
| NO2       | 3.56         | 2.61       | 2.20         | 3.61       | 0.15 | 0.15 | 3.30 | 9.68  | 12.40 | 67.8      | 10         | 61           | D          |              |
| SO4--     | 0.97         | 0.51       | 0.84         | 1.72       | 0.29 | 0.35 | 0.85 | 1.89  | 2.17  | 82.2      | 0          | 74           | A          |              |
| SO2       | 3.37         | 5.18       | 1.05         | 4.69       | 0.25 | 0.25 | 0.80 | 15.73 | 20.90 | 68.9      | 28         | 62           | D          |              |
| NH3+NH4+  | 1.01         | 1.29       | 0.50         | 3.59       | 0.01 | 0.03 | 0.48 | 3.42  | 6.82  | 75.6      | 0          | 68           | A          |              |
| HNO3+NO3  | 0.60         | 0.92       | 0.25         | 4.24       | 0.01 | 0.01 | 0.26 | 1.96  | 4.96  | 83.3      | 4          | 75           | A          |              |
| SPM       | 26.9         | 17.4       | 21.0         | 2.2        | 3.0  | 3.8  | 23.5 | 56.2  | 75.0  | 38.9      | 0          | 35           |            |              |

ES0008R Niembro Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.8          | 0.9        | -            | -          | 0.0  | 0.0  | 1.0  | 2.0   | 4.0   | 68.5      | 27         | 63           |            |              |
| NH4+      | 0.59         | 0.79       | 0.16         | 7.94       | 0.00 | 0.00 | 0.25 | 2.52  | 3.02  | 68.5      | 12         | 63           | U          |              |
| NO2       | 4.14         | 3.64       | 2.20         | 4.16       | 0.15 | 0.15 | 3.10 | 11.32 | 15.60 | 100.0     | 17         | 92           | D          |              |
| SO4--     | 1.50         | 1.14       | 1.20         | 1.98       | 0.17 | 0.34 | 1.23 | 4.34  | 5.73  | 68.5      | 0          | 63           | A          |              |
| SO2       | 1.09         | 2.57       | 0.44         | 2.87       | 0.25 | 0.25 | 0.25 | 3.33  | 16.20 | 98.9      | 68         | 91           | D          |              |
| NH3+NH4+  | 1.51         | 1.50       | 0.93         | 2.93       | 0.02 | 0.14 | 0.94 | 4.48  | 6.82  | 100.0     | 1          | 92           | A          |              |
| HNO3+NO3  | 0.65         | 0.85       | 0.35         | 3.42       | 0.01 | 0.02 | 0.42 | 1.98  | 4.96  | 100.0     | 1          | 92           | A          |              |
| SPM       | 34.2         | 23.6       | 27.0         | 2.1        | 3.0  | 3.9  | 28.0 | 84.3  | 104.0 | 41.3      | 0          | 38           |            |              |

ES0008R Niembro Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 93.5      | 86         | 86           |            |              |
| NH4+      | 0.94         | 1.39       | 0.38         | 4.63       | 0.00 | 0.04 | 0.52 | 3.17 | 7.72  | 93.5      | 3          | 86           | U          |              |
| NO2       | 3.10         | 2.40       | 1.71         | 4.03       | 0.15 | 0.15 | 2.70 | 7.49 | 11.00 | 98.9      | 20         | 91           | D          |              |
| SO4--     | 2.19         | 1.33       | 1.83         | 1.86       | 0.35 | 0.66 | 1.96 | 5.35 | 5.87  | 93.5      | 0          | 86           | A          |              |
| SO2       | 1.03         | 1.59       | 0.53         | 2.85       | 0.25 | 0.25 | 0.25 | 3.70 | 12.00 | 100.0     | 56         | 92           | D          |              |
| NH3+NH4+  | 2.63         | 2.31       | 1.49         | 4.36       | 0.02 | 0.02 | 1.96 | 6.85 | 14.54 | 98.9      | 7          | 91           | A          |              |
| HNO3+NO3  | 0.54         | 0.25       | 0.48         | 1.65       | 0.15 | 0.21 | 0.51 | 0.98 | 1.13  | 100.0     | 0          | 92           | A          |              |
| SPM       | 30.7         | 12.0       | 28.3         | 1.5        | 12.0 | 13.9 | 30.0 | 50.2 | 60.0  | 84.8      | 0          | 78           |            |              |

ES0008R Niembro Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 93.4      | 85         | 85           |            |              |
| NH4+      | 0.76         | 1.45       | 0.23         | 4.70       | 0.00 | 0.02 | 0.18 | 3.79 | 7.35  | 94.5      | 2          | 86           | U          |              |
| NO2       | 1.91         | 2.33       | 0.70         | 4.77       | 0.15 | 0.15 | 1.15 | 6.85 | 10.50 | 100.0     | 44         | 91           | D          |              |
| SO4--     | 1.51         | 1.59       | 1.08         | 2.15       | 0.17 | 0.39 | 0.88 | 4.86 | 7.94  | 94.5      | 0          | 86           | A          |              |
| SO2       | 1.12         | 1.75       | 0.51         | 3.08       | 0.25 | 0.25 | 0.25 | 5.03 | 8.60  | 100.0     | 62         | 91           | D          |              |
| NH3+NH4+  | 1.73         | 1.47       | 1.26         | 2.33       | 0.11 | 0.26 | 1.38 | 4.57 | 7.69  | 94.5      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.43         | 0.28       | 0.35         | 2.13       | 0.01 | 0.17 | 0.34 | 0.98 | 1.39  | 98.9      | 2          | 90           | A          |              |
| SPM       | 27.8         | 15.6       | 24.1         | 1.7        | 9.0  | 9.2  | 21.5 | 57.5 | 84.0  | 93.4      | 0          | 85           |            |              |

ES0009R Campisabalos Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.1          | 2.0        | -            | -          | 0.0  | 0.0  | 0.0  | 5.0  | 11.0  | 88.9      | 45         | 80           |            |              |
| NH4+      | 0.25         | 0.29       | 0.11         | 4.45       | 0.00 | 0.00 | 0.14 | 0.78 | 1.55  | 88.9      | 6          | 80           | U          |              |
| NO2       | 4.28         | 2.57       | 3.00         | 3.10       | 0.15 | 0.15 | 4.20 | 9.42 | 12.10 | 84.4      | 8          | 76           | D          |              |
| SO4--     | 0.57         | 0.35       | 0.47         | 1.94       | 0.09 | 0.14 | 0.51 | 1.25 | 1.65  | 88.9      | 0          | 80           | A          |              |
| SO2       | 1.13         | 2.31       | 0.47         | 2.99       | 0.25 | 0.25 | 0.25 | 4.38 | 13.20 | 97.8      | 62         | 88           | D          |              |
| NH3+NH4+  | 0.34         | 0.33       | 0.19         | 3.44       | 0.01 | 0.02 | 0.24 | 0.93 | 1.72  | 98.9      | 10         | 89           | A          |              |
| HNO3+NO3  | 0.11         | 0.11       | 0.05         | 3.73       | 0.01 | 0.01 | 0.07 | 0.38 | 0.46  | 100.0     | 20         | 90           | A          |              |
| SPM       | 10.7         | 14.0       | 7.8          | 2.0        | 3.0  | 3.0  | 7.0  | 25.1 | 116.0 | 87.8      | 0          | 79           |            |              |

ES0009R Campisabalos Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.4          | 2.4        | -            | -          | 0.0  | 0.0  | 1.0  | 5.6  | 15.0  | 96.7      | 42         | 89           |            |              |
| NH4+      | 0.20         | 0.22       | 0.09         | 4.59       | 0.00 | 0.00 | 0.12 | 0.77 | 0.96  | 97.8      | 12         | 90           | U          |              |
| NO2       | 3.92         | 2.86       | 2.36         | 3.75       | 0.15 | 0.15 | 3.60 | 9.82 | 12.10 | 100.0     | 15         | 92           | D          |              |
| SO4--     | 0.59         | 0.29       | 0.53         | 1.61       | 0.16 | 0.22 | 0.51 | 1.23 | 1.47  | 97.8      | 0          | 90           | A          |              |
| SO2       | 0.68         | 1.98       | 0.33         | 2.21       | 0.25 | 0.25 | 0.25 | 2.10 | 16.50 | 100.0     | 79         | 92           | D          |              |
| NH3+NH4+  | 0.71         | 0.60       | 0.52         | 2.25       | 0.05 | 0.12 | 0.52 | 1.91 | 3.35  | 97.8      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.18         | 0.22       | 0.10         | 3.59       | 0.01 | 0.01 | 0.13 | 0.41 | 1.25  | 100.0     | 8          | 92           | A          |              |
| SPM       | 13.2         | 10.9       | 10.3         | 2.0        | 2.0  | 3.3  | 10.0 | 34.4 | 68.0  | 93.5      | 0          | 86           |            |              |

ES0009R Campisabalos Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 82.6      | 76         | 76           |            |              |
| NH4+      | 0.45         | 0.41       | 0.30         | 2.74       | 0.00 | 0.06 | 0.32 | 1.25 | 2.03  | 90.2      | 1          | 83           | U          |              |
| NO2       | 2.61         | 1.95       | 1.39         | 4.17       | 0.15 | 0.15 | 2.90 | 5.82 | 7.80  | 100.0     | 25         | 92           | D          |              |
| SO4--     | 1.04         | 0.58       | 0.88         | 1.82       | 0.25 | 0.32 | 0.94 | 2.12 | 2.59  | 91.3      | 0          | 84           | A          |              |
| SO2       | 0.91         | 1.46       | 0.49         | 2.67       | 0.25 | 0.25 | 0.25 | 3.16 | 10.40 | 94.6      | 55         | 87           | D          |              |
| NH3+NH4+  | 2.07         | 1.20       | 1.78         | 1.75       | 0.49 | 0.74 | 1.71 | 4.08 | 6.58  | 91.3      | 0          | 84           | A          |              |
| HNO3+NO3  | 0.25         | 0.11       | 0.22         | 1.80       | 0.01 | 0.06 | 0.24 | 0.42 | 0.75  | 92.4      | 1          | 85           | A          |              |
| SPM       | 26.1         | 14.1       | 23.3         | 1.6        | 7.0  | 12.0 | 22.0 | 50.5 | 88.0  | 84.8      | 0          | 78           |            |              |

ES0009R Campisabalos Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 92.3      | 84         | 84           |            |              |
| NH4+      | 0.35         | 0.49       | 0.18         | 3.24       | 0.01 | 0.03 | 0.15 | 1.20 | 2.92  | 94.5      | 0          | 86           | U          |              |
| NO2       | 2.92         | 3.17       | 1.34         | 4.42       | 0.15 | 0.15 | 2.10 | 9.30 | 13.90 | 98.9      | 25         | 90           | D          |              |
| SO4--     | 0.70         | 0.56       | 0.53         | 2.11       | 0.08 | 0.15 | 0.50 | 1.79 | 2.72  | 94.5      | 0          | 86           | A          |              |
| SO2       | 1.30         | 2.55       | 0.48         | 3.28       | 0.25 | 0.25 | 0.25 | 5.98 | 14.00 | 96.7      | 65         | 88           | D          |              |
| NH3+NH4+  | 0.95         | 0.67       | 0.70         | 2.51       | 0.01 | 0.17 | 0.66 | 2.20 | 2.83  | 96.7      | 1          | 88           | A          |              |
| HNO3+NO3  | 0.21         | 0.12       | 0.16         | 2.63       | 0.01 | 0.01 | 0.19 | 0.41 | 0.60  | 98.9      | 8          | 90           | A          |              |
| SPM       | 13.4         | 11.5       | 10.2         | 2.1        | 3.0  | 4.0  | 8.5  | 31.7 | 62.0  | 91.2      | 0          | 83           |            |              |

ES0010R Cabo de Creus Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.1          | 1.7        | -            | -          | 0.0  | 0.0  | 0.0  | 5.0  | 7.0   | 95.6      | 49         | 86           |            |              |
| NH4+      | 0.40         | 0.38       | 0.20         | 4.17       | 0.00 | 0.01 | 0.28 | 1.14 | 1.56  | 95.6      | 4          | 86           | U          |              |
| NO2       | 3.96         | 2.62       | 2.78         | 2.98       | 0.15 | 0.15 | 3.60 | 9.65 | 13.50 | 77.8      | 7          | 70           | D          |              |
| SO4--     | 1.14         | 0.48       | 1.05         | 1.53       | 0.37 | 0.44 | 1.07 | 2.18 | 2.71  | 95.6      | 0          | 86           | A          |              |
| SO2       | 1.72         | 3.13       | 0.59         | 3.68       | 0.25 | 0.25 | 0.25 | 8.98 | 14.50 | 80.0      | 46         | 72           | D          |              |
| NH3+NH4+  | 0.54         | 0.45       | 0.36         | 2.77       | 0.03 | 0.04 | 0.39 | 1.41 | 2.12  | 92.2      | 0          | 83           | A          |              |
| HNO3+NO3  | 0.34         | 0.28       | 0.21         | 2.98       | 0.01 | 0.02 | 0.25 | 0.86 | 1.27  | 93.3      | 0          | 84           | A          |              |
| SPM       | 37.8         | 16.6       | 34.0         | 1.6        | 11.0 | 13.0 | 39.0 | 60.0 | 92.0  | 62.2      | 0          | 56           |            |              |

ES0010R Cabo de Creus Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.0          | 1.5        | -            | -          | 0.0  | 0.0  | 0.0  | 4.7  | 6.0   | 94.6      | 46         | 87           |            |              |
| NH4+      | 0.40         | 0.40       | 0.15         | 6.06       | 0.00 | 0.00 | 0.25 | 1.18 | 1.52  | 96.7      | 12         | 89           | U          |              |
| NO2       | 3.39         | 3.19       | 1.43         | 5.29       | 0.15 | 0.15 | 3.10 | 9.80 | 13.50 | 73.9      | 23         | 68           | D          |              |
| SO4--     | 1.47         | 0.75       | 1.29         | 1.67       | 0.43 | 0.49 | 1.26 | 3.04 | 3.37  | 96.7      | 0          | 89           | A          |              |
| SO2       | 0.98         | 2.17       | 0.40         | 2.78       | 0.25 | 0.25 | 0.25 | 5.01 | 12.60 | 96.7      | 70         | 89           | D          |              |
| NH3+NH4+  | 0.32         | 0.29       | 0.22         | 2.55       | 0.02 | 0.03 | 0.23 | 0.80 | 1.63  | 93.5      | 2          | 86           | A          |              |
| HNO3+NO3  | 0.35         | 0.26       | 0.25         | 2.64       | 0.02 | 0.03 | 0.29 | 0.81 | 1.27  | 98.9      | 0          | 91           | A          |              |
| SPM       | 37.4         | 16.6       | 34.2         | 1.5        | 11.0 | 15.9 | 34.0 | 64.5 | 96.0  | 84.8      | 0          | 78           |            |              |

ES0010R Cabo de Creus Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 79.3      | 73         | 73           |            |              |
| NH4+      | 0.32         | 0.36       | 0.13         | 5.18       | 0.00 | 0.00 | 0.19 | 1.08 | 1.67  | 90.2      | 9          | 83           | U          |              |
| NO2       | 2.27         | 2.04       | 1.04         | 4.55       | 0.15 | 0.15 | 2.20 | 5.93 | 7.00  | 84.8      | 28         | 78           | D          |              |
| SO4--     | 2.03         | 0.83       | 1.87         | 1.50       | 0.72 | 0.97 | 1.86 | 3.75 | 4.09  | 90.2      | 0          | 83           | A          |              |
| SO2       | 0.86         | 1.15       | 0.48         | 2.67       | 0.25 | 0.25 | 0.25 | 3.09 | 5.70  | 88.0      | 54         | 81           | D          |              |
| NH3+NH4+  | 1.12         | 0.78       | 0.83         | 2.49       | 0.03 | 0.10 | 0.98 | 2.38 | 4.29  | 90.2      | 0          | 83           | A          |              |
| HNO3+NO3  | 0.28         | 0.15       | 0.25         | 1.63       | 0.12 | 0.13 | 0.22 | 0.59 | 0.68  | 95.7      | 0          | 88           | A          |              |
| SPM       | 49.8         | 22.5       | 45.8         | 1.5        | 21.0 | 26.0 | 42.0 | 92.2 | 142.0 | 81.5      | 0          | 75           |            |              |

ES0010R Cabo de Creus Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 90.1      | 82         | 82           |            |              |
| NH4+      | 0.51         | 0.73       | 0.23         | 3.76       | 0.00 | 0.02 | 0.25 | 2.21  | 3.66  | 93.4      | 2          | 85           | U          |              |
| NO2       | 3.48         | 4.69       | 1.06         | 5.98       | 0.15 | 0.15 | 1.85 | 12.30 | 24.20 | 97.8      | 38         | 89           | D          |              |
| SO4--     | 1.54         | 0.91       | 1.30         | 1.83       | 0.12 | 0.54 | 1.19 | 3.50  | 4.54  | 93.4      | 0          | 85           | A          |              |
| SO2       | 1.56         | 2.06       | 0.68         | 3.57       | 0.25 | 0.25 | 0.25 | 6.34  | 8.20  | 100.0     | 53         | 91           | D          |              |
| NH3+NH4+  | 1.41         | 0.97       | 1.05         | 2.59       | 0.02 | 0.23 | 1.21 | 2.95  | 6.30  | 95.6      | 2          | 87           | A          |              |
| HNO3+NO3  | 0.14         | 0.08       | 0.10         | 2.67       | 0.01 | 0.01 | 0.13 | 0.27  | 0.49  | 96.7      | 12         | 88           | A          |              |
| SPM       | 41.5         | 21.6       | 36.6         | 1.8        | 1.0  | 21.9 | 35.0 | 82.2  | 144.0 | 84.6      | 0          | 77           |            |              |

ES0011R Barcarrola Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 3.7          | 4.6        | -            | -          | 1.0  | 1.0  | 1.0  | 7.8   | 9.0   | 3.3       | 0          | 3            |            |              |
| NH4+      | 0.13         | 0.08       | 0.11         | 2.10       | 0.05 | 0.05 | 0.09 | 0.20  | 0.21  | 3.3       | 0          | 3            | U          |              |
| NO2       | 5.93         | 4.79       | 4.81         | 2.18       | 2.50 | 2.50 | 3.20 | 10.27 | 11.40 | 3.3       | 0          | 3            | D          |              |
| SO4--     | 0.73         | 0.29       | 0.69         | 1.47       | 0.49 | 0.49 | 0.56 | 0.99  | 1.05  | 3.3       | 0          | 3            | A          |              |
| SO2       | 1.40         | 1.99       | 0.61         | 4.74       | 0.25 | 0.25 | 0.25 | 3.18  | 3.70  | 3.3       | 2          | 3            | D          |              |
| NH3+NH4+  | 0.39         | 0.30       | 0.29         | 2.69       | 0.10 | 0.10 | 0.23 | 0.65  | 0.70  | 3.3       | 0          | 3            | A          |              |
| HNO3+NO3  | 0.17         | 0.20       | 0.10         | 5.21       | 0.03 | 0.03 | 0.03 | 0.28  | 0.31  | 2.2       | 0          | 2            | A          |              |
| SPM       | 17.0         | 5.7        | 16.5         | 1.4        | 13.0 | 13.0 | 13.0 | 20.2  | 21.0  | 2.2       | 0          | 2            |            |              |

ES0011R Barcarrola Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.7          | 1.7        | -            | -          | 0.0  | 0.0  | 0.0  | 4.1  | 9.0   | 64.1      | 44         | 59           |            |              |
| NH4+      | 0.17         | 0.28       | 0.06         | 5.18       | 0.00 | 0.00 | 0.07 | 0.53 | 1.55  | 65.2      | 13         | 60           | U          |              |
| NO2       | 1.56         | 2.09       | 0.59         | 4.46       | 0.15 | 0.15 | 0.15 | 4.48 | 11.40 | 56.5      | 27         | 52           | D          |              |
| SO4--     | 0.85         | 0.56       | 0.73         | 1.70       | 0.30 | 0.33 | 0.64 | 1.96 | 3.48  | 65.2      | 0          | 60           | A          |              |
| SO2       | 0.55         | 0.89       | 0.34         | 2.13       | 0.25 | 0.25 | 0.25 | 2.40 | 4.90  | 62.0      | 48         | 57           | D          |              |
| NH3+NH4+  | 0.78         | 0.94       | 0.44         | 3.37       | 0.02 | 0.03 | 0.56 | 1.66 | 6.19  | 63.0      | 2          | 58           | A          |              |
| HNO3+NO3  | 0.21         | 0.12       | 0.17         | 2.40       | 0.01 | 0.02 | 0.19 | 0.42 | 0.55  | 63.0      | 2          | 58           | A          |              |
| SPM       | 29.9         | 19.0       | 26.0         | 1.7        | 10.0 | 10.0 | 25.0 | 58.3 | 112.0 | 63.0      | 0          | 58           |            |              |

ES0011R Barcarrola Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 82.6      | 76         | 76           |            |              |
| NH4+      | 0.73         | 1.08       | 0.28         | 4.87       | 0.00 | 0.01 | 0.25 | 2.20 | 6.48 | 92.4      | 2          | 85           | U          |              |
| NO2       | 2.72         | 1.75       | 1.78         | 3.26       | 0.15 | 0.15 | 2.60 | 5.09 | 7.20 | 89.1      | 13         | 82           | D          |              |
| SO4--     | 1.67         | 1.36       | 1.23         | 2.22       | 0.19 | 0.38 | 1.24 | 4.56 | 6.36 | 92.4      | 0          | 85           | A          |              |
| SO2       | 0.97         | 1.21       | 0.53         | 2.83       | 0.25 | 0.25 | 0.25 | 3.63 | 5.40 | 96.7      | 56         | 89           | D          |              |
| NH3+NH4+  | 2.13         | 1.63       | 1.59         | 2.24       | 0.20 | 0.40 | 1.66 | 4.95 | 8.78 | 95.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.28         | 0.19       | 0.18         | 3.57       | 0.01 | 0.01 | 0.25 | 0.61 | 0.97 | 96.7      | 13         | 89           | A          |              |
| SPM       | 43.3         | 16.0       | 40.5         | 1.5        | 18.0 | 21.1 | 41.0 | 73.8 | 90.0 | 90.2      | 0          | 83           |            |              |

ES0011R Barcarrola Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 91.2      | 83         | 83           |            |              |
| NH4+      | 0.38         | 0.50       | 0.17         | 4.81       | 0.00 | 0.00 | 0.20 | 1.52 | 2.62  | 93.4      | 8          | 85           | U          |              |
| NO2       | 3.05         | 3.34       | 1.23         | 5.00       | 0.15 | 0.15 | 2.05 | 9.47 | 13.80 | 91.2      | 28         | 83           | D          |              |
| SO4--     | 0.87         | 0.71       | 0.70         | 1.86       | 0.18 | 0.31 | 0.62 | 2.26 | 3.95  | 93.4      | 0          | 85           | A          |              |
| SO2       | 1.03         | 1.50       | 0.50         | 2.97       | 0.25 | 0.25 | 0.25 | 4.36 | 7.60  | 96.7      | 60         | 88           | D          |              |
| NH3+NH4+  | 1.18         | 1.17       | 0.72         | 3.08       | 0.03 | 0.08 | 0.81 | 3.04 | 6.30  | 95.6      | 0          | 87           | A          |              |
| HNO3+NO3  | 0.26         | 0.15       | 0.23         | 1.77       | 0.06 | 0.07 | 0.23 | 0.57 | 0.74  | 97.8      | 0          | 89           | A          |              |
| SPM       | 22.6         | 13.0       | 19.5         | 1.7        | 7.0  | 8.1  | 17.5 | 50.8 | 59.0  | 89.0      | 0          | 81           |            |              |

ES0012R Zarra Spain

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.2          | 2.1        | -            | -          | 0.0  | 0.0  | 0.0  | 5.9  | 8.0   | 91.1      | 47         | 82           |            |              |
| NH4+      | 0.40         | 0.44       | 0.25         | 2.74       | 0.01 | 0.04 | 0.23 | 1.18 | 2.38  | 91.1      | 0          | 82           | U          |              |
| NO2       | 3.76         | 2.95       | 2.12         | 4.05       | 0.15 | 0.15 | 3.40 | 9.88 | 11.70 | 57.8      | 10         | 52           | D          |              |
| SO4--     | 0.69         | 0.38       | 0.60         | 1.70       | 0.19 | 0.26 | 0.58 | 1.31 | 1.94  | 91.1      | 0          | 82           | A          |              |
| SO2       | 0.74         | 1.24       | 0.39         | 2.51       | 0.25 | 0.25 | 0.25 | 3.53 | 6.60  | 74.4      | 53         | 67           | D          |              |
| NH3+NH4+  | 1.36         | 0.93       | 1.09         | 1.98       | 0.12 | 0.34 | 1.03 | 3.16 | 4.75  | 90.0      | 0          | 81           | A          |              |
| HNO3+NO3  | 0.41         | 0.31       | 0.31         | 2.16       | 0.04 | 0.08 | 0.34 | 0.95 | 1.53  | 77.8      | 0          | 70           | A          |              |
| SPM       | 20.0         | 14.5       | 16.3         | 1.9        | 5.0  | 6.0  | 15.0 | 53.2 | 78.0  | 87.8      | 0          | 79           |            |              |

ES0012R Zarra Spain

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 1.1          | 2.0        | -            | -          | 0.0  | 0.0  | 0.0  | 5.5  | 8.0   | 97.8      | 57         | 90           |            |              |
| NH4+      | 0.38         | 0.41       | 0.22         | 3.49       | 0.00 | 0.01 | 0.25 | 1.17 | 2.38  | 98.9      | 4          | 91           | U          |              |
| NO2       | 2.99         | 2.59       | 1.51         | 4.37       | 0.15 | 0.15 | 2.90 | 7.72 | 11.70 | 93.5      | 23         | 86           | D          |              |
| SO4--     | 0.89         | 0.50       | 0.78         | 1.70       | 0.23 | 0.29 | 0.77 | 1.93 | 2.63  | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.39         | 0.74       | 0.28         | 1.67       | 0.25 | 0.25 | 0.25 | 0.86 | 6.60  | 91.3      | 78         | 84           | D          |              |
| NH3+NH4+  | 1.80         | 0.95       | 1.54         | 1.86       | 0.07 | 0.61 | 1.64 | 3.51 | 5.25  | 95.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.40         | 0.27       | 0.30         | 2.41       | 0.01 | 0.05 | 0.36 | 0.92 | 1.50  | 96.7      | 0          | 89           | A          |              |
| SPM       | 24.0         | 13.8       | 20.5         | 1.8        | 5.0  | 6.6  | 22.0 | 43.5 | 80.0  | 98.9      | 0          | 91           |            |              |

ES0012R Zarra Spain

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.0        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 58.7      | 54         | 54           |            |              |
| NH4+      | 0.29         | 0.27       | 0.19         | 2.89       | 0.00 | 0.03 | 0.22 | 0.74 | 1.58  | 90.2      | 2          | 83           | U          |              |
| NO2       | 2.81         | 2.09       | 1.47         | 4.30       | 0.15 | 0.15 | 3.00 | 6.18 | 7.00  | 100.0     | 25         | 92           | D          |              |
| SO4--     | 1.54         | 0.65       | 1.39         | 1.63       | 0.35 | 0.46 | 1.51 | 2.66 | 3.12  | 90.2      | 0          | 83           | A          |              |
| SO2       | 0.85         | 1.74       | 0.41         | 2.59       | 0.25 | 0.25 | 0.25 | 3.84 | 11.30 | 100.0     | 68         | 92           | D          |              |
| NH3+NH4+  | 2.91         | 1.86       | 2.28         | 2.35       | 0.02 | 0.65 | 2.29 | 6.81 | 8.59  | 93.5      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.48         | 0.14       | 0.46         | 1.38       | 0.14 | 0.24 | 0.49 | 0.69 | 0.77  | 98.9      | 0          | 91           | A          |              |
| SPM       | 37.9         | 12.3       | 36.1         | 1.4        | 18.0 | 21.1 | 35.5 | 63.7 | 82.0  | 90.2      | 0          | 83           |            |              |

ES0012R Zarra Spain

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 0.0          | 0.1        | -            | -          | 0.0  | 0.0  | 0.0  | 0.0  | 1.0   | 89.0      | 80         | 81           |            |              |
| NH4+      | 0.37         | 0.48       | 0.18         | 3.88       | 0.00 | 0.01 | 0.22 | 1.08 | 3.28  | 96.7      | 3          | 88           | U          |              |
| NO2       | 3.14         | 3.51       | 1.28         | 4.95       | 0.15 | 0.15 | 2.00 | 9.45 | 18.70 | 98.9      | 29         | 90           | D          |              |
| SO4--     | 0.87         | 0.56       | 0.72         | 1.83       | 0.20 | 0.26 | 0.73 | 2.05 | 2.84  | 96.7      | 0          | 88           | A          |              |
| SO2       | 0.80         | 1.53       | 0.39         | 2.56       | 0.25 | 0.25 | 0.25 | 3.94 | 9.80  | 100.0     | 72         | 91           | D          |              |
| NH3+NH4+  | 1.87         | 1.29       | 1.50         | 2.14       | 0.02 | 0.58 | 1.70 | 4.28 | 8.04  | 94.5      | 1          | 86           | A          |              |
| HNO3+NO3  | 0.35         | 0.18       | 0.30         | 1.84       | 0.01 | 0.12 | 0.31 | 0.74 | 0.90  | 97.8      | 1          | 89           | A          |              |
| SPM       | 17.8         | 11.5       | 14.9         | 1.8        | 4.0  | 5.4  | 15.0 | 34.0 | 69.0  | 96.7      | 0          | 88           |            |              |

FI0009R Uto Finland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.44         | 0.75       | 1.28         | 1.60       | 0.44 | 0.59 | 1.20 | 2.86 | 4.29 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.89         | 0.79       | 0.64         | 2.40       | 0.03 | 0.16 | 0.69 | 1.84 | 4.45 | 96.7      | 0          | 87           | A          |              |
| SO2       | 0.88         | 1.04       | 0.46         | 3.55       | 0.01 | 0.05 | 0.45 | 2.98 | 5.40 | 96.7      | 0          | 87           | A          |              |
| NH3+NH4+  | 0.47         | 0.49       | 0.30         | 2.89       | 0.02 | 0.04 | 0.33 | 1.36 | 2.72 | 97.8      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.41         | 0.27       | 0.32         | 2.05       | 0.06 | 0.10 | 0.34 | 0.85 | 1.44 | 96.7      | 0          | 87           | A          |              |

FI0009R Uto Finland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.76         | 1.04       | 2.57         | 1.47       | 0.91 | 1.35 | 2.63 | 4.46 | 6.85 | 98.9      | 0          | 91           | C          |              |
| SO4--     | 0.91         | 0.58       | 0.75         | 1.89       | 0.16 | 0.20 | 0.73 | 2.06 | 2.89 | 95.7      | 0          | 88           | A          |              |
| SO2       | 0.62         | 0.60       | 0.46         | 2.08       | 0.08 | 0.17 | 0.43 | 2.24 | 2.95 | 95.7      | 0          | 88           | A          |              |
| NH3+NH4+  | 0.73         | 0.58       | 0.56         | 2.09       | 0.11 | 0.16 | 0.56 | 1.84 | 3.04 | 89.1      | 0          | 82           | A          |              |
| HNO3+NO3  | 0.50         | 0.35       | 0.40         | 1.90       | 0.09 | 0.13 | 0.42 | 1.17 | 2.15 | 95.7      | 0          | 88           | A          |              |

FI0009R Uto Finland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.16         | 0.76       | 0.92         | 2.00       | 0.21 | 0.30 | 0.80 | 2.55 | 3.71 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.59         | 0.44       | 0.42         | 2.40       | 0.07 | 0.09 | 0.49 | 1.36 | 1.57 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.37         | 0.20       | 0.32         | 1.74       | 0.09 | 0.12 | 0.32 | 0.74 | 1.13 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 0.55         | 0.41       | 0.42         | 2.13       | 0.10 | 0.12 | 0.36 | 1.36 | 1.99 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.38         | 0.26       | 0.30         | 2.11       | 0.04 | 0.08 | 0.32 | 0.91 | 1.14 | 98.9      | 0          | 91           | A          |              |

FI0009R Uto Finland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.04         | 0.68       | 0.83         | 2.24       | 0.00 | 0.12 | 0.83 | 2.36 | 3.65 | 91.2      | 1          | 83           | C          |              |
| SO4--     | 0.71         | 0.55       | 0.51         | 2.44       | 0.07 | 0.11 | 0.56 | 1.90 | 2.23 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.37         | 0.45       | 0.27         | 2.10       | 0.05 | 0.09 | 0.22 | 0.90 | 3.64 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 0.63         | 0.55       | 0.38         | 3.40       | 0.00 | 0.03 | 0.47 | 1.61 | 2.36 | 94.5      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.43         | 0.28       | 0.31         | 2.50       | 0.03 | 0.04 | 0.39 | 0.93 | 1.10 | 100.0     | 0          | 91           | A          |              |

FI0017R Virolahti II Finland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.60         | 2.72       | 1.74         | 2.47       | 0.12 | 0.37 | 1.62 | 7.68 | 14.57 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 1.24         | 0.99       | 0.97         | 2.02       | 0.17 | 0.28 | 0.94 | 2.99 | 6.42  | 100.0     | 0          | 90           | A          |              |
| SO2       | 2.06         | 1.76       | 1.40         | 2.53       | 0.17 | 0.29 | 1.52 | 6.25 | 7.73  | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 0.68         | 0.41       | 0.55         | 1.99       | 0.11 | 0.16 | 0.61 | 1.42 | 1.63  | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.34         | 0.23       | 0.28         | 1.98       | 0.06 | 0.08 | 0.29 | 0.71 | 1.34  | 100.0     | 0          | 90           | A          |              |

FI0017R Virolahti II Finland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.73         | 0.99       | 1.48         | 1.77       | 0.20 | 0.59 | 1.50 | 3.43 | 5.78 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 1.00         | 0.64       | 0.79         | 2.13       | 0.10 | 0.16 | 0.82 | 2.15 | 2.99 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.04         | 0.95       | 0.70         | 2.58       | 0.05 | 0.12 | 0.63 | 2.93 | 4.71 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.22         | 0.71       | 1.00         | 1.97       | 0.13 | 0.29 | 1.07 | 2.55 | 3.10 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.40         | 0.30       | 0.31         | 2.11       | 0.04 | 0.09 | 0.30 | 1.03 | 1.43 | 100.0     | 0          | 92           | A          |              |

FI0017R Virolahti II Finland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.21         | 0.59       | 1.07         | 1.69       | 0.25 | 0.39 | 1.13 | 2.26 | 2.76 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.60         | 0.42       | 0.46         | 2.20       | 0.10 | 0.11 | 0.54 | 1.41 | 2.13 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.39         | 0.33       | 0.27         | 2.50       | 0.02 | 0.05 | 0.28 | 0.91 | 1.73 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.64         | 0.84       | 1.43         | 1.73       | 0.38 | 0.59 | 1.50 | 3.14 | 4.11 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.28         | 0.15       | 0.23         | 1.92       | 0.04 | 0.05 | 0.26 | 0.53 | 0.71 | 100.0     | 0          | 92           | A          |              |

FI0017R Virolahti II Finland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.34         | 0.85       | 1.12         | 1.85       | 0.10 | 0.43 | 1.05 | 2.88 | 5.20 | 100.0     | 0          | 91           | C          |              |
| SO4--     | 0.73         | 0.58       | 0.54         | 2.27       | 0.07 | 0.11 | 0.60 | 1.73 | 3.70 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.58         | 0.75       | 0.32         | 3.04       | 0.02 | 0.06 | 0.33 | 2.21 | 4.14 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 1.07         | 0.80       | 0.81         | 2.25       | 0.08 | 0.19 | 0.90 | 2.51 | 4.02 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.28         | 0.22       | 0.20         | 2.41       | 0.03 | 0.04 | 0.22 | 0.70 | 1.13 | 100.0     | 0          | 91           | A          |              |

FI0022R Oulanka Finland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.82         | 0.43       | 0.71         | 1.73       | 0.21 | 0.25 | 0.77 | 1.64 | 2.11 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.66         | 0.44       | 0.52         | 2.18       | 0.04 | 0.12 | 0.59 | 1.56 | 1.78 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.95         | 0.99       | 0.47         | 4.24       | 0.01 | 0.04 | 0.76 | 2.59 | 6.36 | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 0.21         | 0.18       | 0.13         | 3.11       | 0.00 | 0.01 | 0.17 | 0.60 | 0.78 | 98.9      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.09         | 0.06       | 0.07         | 1.94       | 0.01 | 0.02 | 0.07 | 0.19 | 0.41 | 100.0     | 0          | 90           | A          |              |

FI0022R Oulanka Finland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.69         | 0.37       | 0.59         | 1.75       | 0.15 | 0.23 | 0.65 | 1.29 | 2.16 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.65         | 0.43       | 0.48         | 2.47       | 0.00 | 0.12 | 0.56 | 1.46 | 1.76 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.50         | 0.51       | 0.30         | 3.09       | 0.01 | 0.05 | 0.32 | 1.42 | 2.43 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 0.24         | 0.25       | 0.16         | 2.58       | 0.00 | 0.04 | 0.16 | 0.70 | 1.42 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.08         | 0.10       | 0.06         | 2.13       | 0.01 | 0.02 | 0.05 | 0.17 | 0.80 | 100.0     | 0          | 92           | A          |              |

FI0022R Oulanka Finland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.56         | 0.49       | 0.40         | 2.40       | 0.07 | 0.09 | 0.40 | 1.59 | 2.19 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.27         | 0.25       | 0.18         | 2.73       | 0.00 | 0.04 | 0.19 | 0.74 | 1.32 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.10         | 0.10       | 0.06         | 2.72       | 0.01 | 0.01 | 0.05 | 0.30 | 0.44 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 0.18         | 0.19       | 0.12         | 2.50       | 0.02 | 0.03 | 0.11 | 0.56 | 1.01 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.05         | 0.06       | 0.03         | 2.74       | 0.00 | 0.01 | 0.04 | 0.17 | 0.34 | 100.0     | 0          | 92           | A          |              |

FI0022R Oulanka Finland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%    | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|-------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.25         | 0.27       | 0.33         | 2.07       | -0.27 | -0.21 | 0.25 | 0.74 | 0.96 | 95.6      | 14         | 87           | C          |              |
| SO4--     | 0.39         | 0.37       | 0.25         | 2.87       | 0.01  | 0.04  | 0.29 | 1.18 | 1.77 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.23         | 0.36       | 0.09         | 4.08       | 0.01  | 0.01  | 0.08 | 0.95 | 2.00 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 0.18         | 0.19       | 0.11         | 2.97       | 0.00  | 0.02  | 0.11 | 0.60 | 0.90 | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.05         | 0.05       | 0.03         | 3.03       | 0.00  | 0.00  | 0.04 | 0.16 | 0.26 | 100.0     | 0          | 91           | A          |              |

FI0037R Ahtari II Finland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.34         | 0.69       | 1.19         | 1.60       | 0.43 | 0.52 | 1.15 | 2.59 | 4.05 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.77         | 0.55       | 0.60         | 2.02       | 0.13 | 0.16 | 0.56 | 1.83 | 2.62 | 98.9      | 0          | 89           | A          |              |
| SO2       | 0.86         | 0.81       | 0.44         | 3.92       | 0.01 | 0.04 | 0.55 | 2.43 | 2.63 | 98.9      | 0          | 89           | A          |              |
| NH3+NH4+  | 0.32         | 0.21       | 0.26         | 1.95       | 0.04 | 0.07 | 0.28 | 0.80 | 0.99 | 98.9      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.19         | 0.10       | 0.16         | 1.74       | 0.05 | 0.06 | 0.18 | 0.34 | 0.58 | 98.9      | 0          | 89           | A          |              |

FI0037R Ahtari II Finland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.21         | 0.80       | 1.02         | 1.77       | 0.34 | 0.45 | 0.89 | 2.88 | 4.33 | 90.2      | 0          | 83           | C          |              |
| SO4--     | 0.66         | 0.52       | 0.49         | 2.25       | 0.07 | 0.09 | 0.52 | 1.76 | 2.51 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.50         | 0.64       | 0.26         | 3.03       | 0.04 | 0.06 | 0.18 | 2.02 | 2.81 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 0.50         | 0.40       | 0.39         | 1.99       | 0.08 | 0.13 | 0.39 | 1.17 | 2.26 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.21         | 0.22       | 0.14         | 2.32       | 0.03 | 0.04 | 0.15 | 0.51 | 1.46 | 100.0     | 0          | 92           | A          |              |

FI0037R Ahtari II Finland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.58         | 0.28       | 0.50         | 1.73       | 0.15 | 0.18 | 0.59 | 1.03 | 1.18 | 95.7      | 0          | 88           | C          |              |
| SO4--     | 0.33         | 0.29       | 0.22         | 2.59       | 0.02 | 0.05 | 0.22 | 0.95 | 1.21 | 94.6      | 0          | 87           | A          |              |
| SO2       | 0.11         | 0.10       | 0.08         | 2.33       | 0.01 | 0.02 | 0.08 | 0.34 | 0.49 | 96.7      | 0          | 89           | A          |              |
| NH3+NH4+  | 0.43         | 0.31       | 0.33         | 2.01       | 0.10 | 0.12 | 0.31 | 1.12 | 1.38 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.12         | 0.09       | 0.10         | 2.07       | 0.01 | 0.03 | 0.09 | 0.29 | 0.46 | 94.6      | 0          | 87           | A          |              |

FI0037R Ahtari II Finland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.69         | 0.43       | 0.57         | 1.88       | 0.11 | 0.18 | 0.59 | 1.73 | 1.99 | 94.5      | 0          | 86           | C          |              |
| SO4--     | 0.51         | 0.42       | 0.37         | 2.34       | 0.05 | 0.08 | 0.41 | 1.37 | 2.04 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.19         | 0.25       | 0.11         | 2.97       | 0.01 | 0.02 | 0.09 | 0.53 | 1.76 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 0.41         | 0.32       | 0.31         | 2.20       | 0.05 | 0.08 | 0.32 | 1.16 | 1.47 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.16         | 0.13       | 0.12         | 2.24       | 0.02 | 0.03 | 0.13 | 0.43 | 0.58 | 100.0     | 0          | 91           | A          |              |

FR0003R La Crouzille France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.55         | 0.45       | 0.42         | 2.10       | 0.08 | 0.11 | 0.42 | 1.32 | 2.92 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.64         | 0.57       | 0.50         | 1.92       | 0.14 | 0.26 | 0.37 | 1.78 | 3.19 | 100.0     | 1          | 90           | B          |              |

FR0003R La Crouzille France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.64         | 0.42       | 0.53         | 1.91       | 0.08 | 0.22 | 0.50 | 1.50 | 2.22 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.40         | 0.22       | 0.37         | 1.48       | 0.21 | 0.25 | 0.32 | 0.83 | 1.56 | 100.0     | 0          | 92           | B          |              |

FR0003R La Crouzille France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.67         | 0.61       | 0.66         | 1.89       | 0.00 | 0.00 | 0.48 | 1.79 | 3.81 | 97.8      | 12         | 90           | A          |              |
| SO2       | 0.65         | 1.20       | 0.53         | 2.06       | 0.00 | 0.00 | 0.33 | 2.35 | 9.69 | 97.8      | 12         | 90           | B          |              |

FR0003R La Crouzille France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.62         | 0.38       | 0.53         | 1.79       | 0.14 | 0.20 | 0.54 | 1.32 | 2.38 | 93.4      | 0          | 85           | A          |              |
| SO2       | 0.73         | 0.65       | 0.57         | 1.88       | 0.25 | 0.29 | 0.50 | 1.88 | 3.38 | 93.4      | 0          | 85           | B          |              |

FR0005R La Hague France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.64         | 0.53       | 0.50         | 1.90       | 0.10 | 0.20 | 0.45 | 1.67 | 3.21 | 100.0     | 1          | 90           | A          |              |
| SO2       | 0.85         | 0.83       | 0.61         | 2.18       | 0.16 | 0.31 | 0.39 | 2.46 | 4.79 | 100.0     | 1          | 90           | B          |              |

FR0005R La Hague France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.81         | 0.49       | 0.69         | 1.84       | 0.04 | 0.32 | 0.67 | 1.76 | 2.72 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.93         | 0.78       | 0.70         | 2.05       | 0.29 | 0.31 | 0.62 | 2.53 | 4.42 | 100.0     | 0          | 92           | B          |              |

FR0005R La Hague France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.92         | 0.65       | 0.72         | 2.08       | 0.09 | 0.21 | 0.69 | 2.20 | 3.10 | 92.4      | 0          | 85           | A          |              |
| SO2       | 0.98         | 0.91       | 0.72         | 2.16       | 0.28 | 0.28 | 0.67 | 2.62 | 5.69 | 92.4      | 0          | 85           | B          |              |

FR0005R La Hague France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.76         | 0.69       | 0.58         | 2.03       | 0.11 | 0.20 | 0.50 | 2.29 | 3.89 | 98.9      | 0          | 90           | A          |              |
| SO2       | 0.96         | 0.93       | 0.68         | 2.20       | 0.27 | 0.30 | 0.54 | 3.00 | 4.45 | 100.0     | 0          | 91           | B          |              |

FR0008R Donon France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.36         | 0.26       | 0.29         | 1.88       | 0.07 | 0.10 | 0.30 | 0.74 | 1.68 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.79         | 0.69       | 0.61         | 2.01       | 0.28 | 0.28 | 0.53 | 2.15 | 4.23 | 100.0     | 0          | 90           | B          |              |

FR0008R Donon France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.55         | 0.38       | 0.43         | 2.10       | 0.07 | 0.11 | 0.47 | 1.28 | 2.01 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.47         | 0.28       | 0.41         | 1.63       | 0.22 | 0.26 | 0.30 | 0.99 | 1.52 | 100.0     | 0          | 92           | B          |              |

FR0008R Donon France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.34         | 0.29       | 0.52         | 1.69       | 0.00 | 0.00 | 0.31 | 0.86 | 1.05 | 98.9      | 25         | 91           | A          |              |
| SO2       | 0.36         | 0.33       | 0.57         | 1.53       | 0.00 | 0.00 | 0.33 | 0.92 | 1.73 | 100.0     | 26         | 92           | B          |              |

FR0008R Donon France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.39         | 0.28       | 0.31         | 1.93       | 0.07 | 0.10 | 0.31 | 0.93 | 1.69 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.71         | 0.52       | 0.57         | 1.90       | 0.27 | 0.27 | 0.53 | 1.80 | 2.44 | 97.8      | 0          | 89           | B          |              |

FR0009R Revin France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.70         | 0.69       | 0.52         | 2.09       | 0.17 | 0.18 | 0.49 | 2.52 | 3.23 | 46.7      | 0          | 42           | A          |              |
| SO2       | 1.36         | 1.46       | 0.87         | 2.52       | 0.30 | 0.30 | 0.64 | 3.90 | 7.61 | 46.7      | 0          | 42           | B          |              |

FR0009R Revin France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.02         | 0.64       | 0.91         | 1.72       | 0.00 | 0.23 | 0.88 | 2.33 | 3.29 | 66.3      | 2          | 61           | A          |              |
| SO2       | 0.77         | 0.66       | 0.64         | 1.89       | 0.00 | 0.31 | 0.50 | 2.26 | 3.15 | 66.3      | 2          | 61           | B          |              |

FR0009R Revin France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.82         | 0.78       | 0.89         | 1.88       | 0.00 | 0.00 | 0.72 | 2.18 | 4.04 | 100.0     | 21         | 92           | A          |              |
| SO2       | 0.62         | 0.55       | 0.74         | 1.66       | 0.00 | 0.00 | 0.45 | 1.58 | 2.76 | 100.0     | 21         | 92           | B          |              |

FR0009R Revin France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.88         | 0.72       | 0.69         | 1.96       | 0.16 | 0.27 | 0.63 | 2.11 | 3.95 | 100.0     | 0          | 91           | A          |              |
| SO2       | 1.00         | 0.83       | 0.76         | 2.10       | 0.31 | 0.31 | 0.71 | 2.90 | 3.73 | 100.0     | 0          | 91           | B          |              |

FR0010R Morvan France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.51         | 0.45       | 0.38         | 2.15       | 0.06 | 0.10 | 0.36 | 1.21 | 2.69  | 98.9      | 0          | 89           | A          |              |
| SO2       | 1.65         | 4.55       | 0.82         | 2.58       | 0.00 | 0.30 | 0.62 | 5.59 | 42.26 | 100.0     | 1          | 90           | B          |              |

FR0010R Morvan France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.69         | 0.46       | 0.56         | 1.97       | 0.09 | 0.19 | 0.53 | 1.51 | 2.41 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.45         | 0.22       | 0.42         | 1.41       | 0.27 | 0.31 | 0.37 | 1.00 | 1.31 | 100.0     | 0          | 92           | B          |              |

FR0010R Morvan France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.52         | 0.36       | 0.50         | 1.85       | 0.00 | 0.00 | 0.45 | 1.13 | 1.96 | 93.5      | 7          | 86           | A          |              |
| SO2       | 0.37         | 0.24       | 0.43         | 1.31       | 0.00 | 0.00 | 0.36 | 0.57 | 2.14 | 93.5      | 9          | 86           | B          |              |

FR0010R Morvan France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.62         | 0.56       | 0.44         | 2.25       | 0.08 | 0.12 | 0.43 | 1.93 | 2.56 | 98.9      | 0          | 90           | A          |              |
| SO2       | 0.71         | 0.70       | 0.55         | 1.90       | 0.23 | 0.33 | 0.38 | 1.64 | 4.19 | 100.0     | 0          | 91           | B          |              |

FR0012R Iraty France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.35         | 0.34       | 0.25         | 2.20       | 0.08 | 0.08 | 0.24 | 1.10 | 2.12  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.16         | 2.18       | 0.68         | 2.39       | 0.29 | 0.29 | 0.50 | 3.19 | 18.97 | 100.0     | 0          | 90           | B          |              |

FR0012R Iraty France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.40         | 0.28       | 0.34         | 1.94       | 0.00 | 0.08 | 0.33 | 0.97 | 1.38 | 100.0     | 2          | 92           | A          |              |
| SO2       | 0.48         | 0.35       | 0.43         | 1.60       | 0.00 | 0.29 | 0.34 | 1.25 | 2.01 | 100.0     | 2          | 92           | B          |              |

FR0012R Iraty France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.87         | 0.54       | 0.84         | 1.73       | 0.00 | 0.00 | 0.87 | 1.71 | 2.97 | 95.7      | 8          | 88           | A          |              |
| SO2       | 0.55         | 0.65       | 0.51         | 1.85       | 0.00 | 0.00 | 0.33 | 2.30 | 2.90 | 97.8      | 10         | 90           | B          |              |

FR0012R Iraty France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.61         | 0.62       | 0.40         | 2.49       | 0.06 | 0.10 | 0.34 | 2.04 | 2.90 | 87.9      | 0          | 80           | A          |              |
| SO2       | 0.62         | 0.61       | 0.51         | 1.75       | 0.28 | 0.29 | 0.45 | 1.36 | 5.19 | 89.0      | 0          | 81           | B          |              |

FR0013R Peyrusse Vieille France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.45         | 0.35       | 0.36         | 1.94       | 0.09 | 0.11 | 0.37 | 1.08 | 2.06 | 84.4      | 0          | 76           | A          |              |
| SO2       | 0.68         | 0.71       | 0.52         | 1.89       | 0.31 | 0.32 | 0.36 | 1.90 | 4.53 | 84.4      | 0          | 76           | B          |              |

FR0013R Peyrusse Vieille France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.59         | 0.42       | 0.50         | 2.11       | 0.00 | 0.00 | 0.48 | 1.37 | 1.67 | 100.0     | 5          | 92           | A          |              |
| SO2       | 0.39         | 0.32       | 0.39         | 1.43       | 0.00 | 0.00 | 0.38 | 0.62 | 3.16 | 100.0     | 5          | 92           | B          |              |

FR0013R Peyrusse Vieille France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.95         | 0.63       | 0.73         | 2.21       | 0.08 | 0.12 | 0.74 | 2.32 | 2.70 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.59         | 0.70       | 0.44         | 1.92       | 0.21 | 0.22 | 0.33 | 1.77 | 4.74 | 100.0     | 0          | 92           | B          |              |

FR0013R Peyrusse Vieille France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.64         | 0.93       | 0.48         | 1.94       | 0.11 | 0.17 | 0.49 | 1.33 | 8.76 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.56         | 0.32       | 0.50         | 1.54       | 0.30 | 0.35 | 0.40 | 1.20 | 2.09 | 97.8      | 0          | 89           | B          |              |

FR0014R Montandon France

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.26         | 0.22       | 0.24         | 1.99       | 0.00 | 0.00 | 0.19 | 0.74 | 1.17 | 100.0     | 6          | 90           | A          |              |
| SO2       | 0.41         | 0.49       | 0.37         | 1.80       | 0.00 | 0.00 | 0.27 | 0.93 | 3.70 | 100.0     | 6          | 90           | B          |              |

FR0014R Montandon France

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.47         | 0.37       | 0.41         | 2.03       | 0.00 | 0.00 | 0.37 | 1.25 | 1.54 | 100.0     | 5          | 92           | A          |              |
| SO2       | 0.27         | 0.14       | 0.27         | 1.38       | 0.00 | 0.19 | 0.24 | 0.47 | 1.06 | 100.0     | 3          | 92           | B          |              |

FR0014R Montandon France

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.60         | 0.36       | 0.49         | 1.89       | 0.09 | 0.15 | 0.50 | 1.27 | 1.66 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.32         | 0.14       | 0.31         | 1.30       | 0.23 | 0.23 | 0.29 | 0.43 | 1.39 | 100.0     | 0          | 92           | B          |              |

FR0014R Montandon France

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.45         | 0.34       | 0.34         | 2.13       | 0.07 | 0.08 | 0.34 | 1.25 | 1.56 | 92.3      | 0          | 84           | A          |              |
| SO2       | 0.56         | 1.04       | 0.39         | 1.81       | 0.27 | 0.27 | 0.31 | 1.21 | 8.33 | 93.4      | 0          | 85           | B          |              |

GB0002R Eskdalemuir United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.44         | 0.26       | 0.37         | 1.74       | 0.11 | 0.15 | 0.35 | 0.95 | 1.35 | 77.8      | 0          | 70           | A          |              |
| SO2       | 0.46         | 0.39       | 0.35         | 2.06       | 0.10 | 0.13 | 0.30 | 1.29 | 1.73 | 74.4      | 0          | 67           | B          |              |
| NH3+NH4+  | 0.48         | 0.40       | 0.35         | 2.31       | 0.02 | 0.08 | 0.33 | 1.41 | 1.80 | 97.8      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.20         | 0.20       | 0.14         | 2.60       | 0.00 | 0.03 | 0.14 | 0.66 | 0.91 | 90.0      | 2          | 81           | A          |              |

GB0002R Eskdalemuir United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.69         | 0.64       | 0.50         | 2.19       | 0.10 | 0.15 | 0.47 | 2.20 | 3.01 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.52         | 0.61       | 0.36         | 2.21       | 0.12 | 0.14 | 0.28 | 1.63 | 3.08 | 98.9      | 0          | 91           | B          |              |
| NH3+NH4+  | 0.97         | 1.16       | 0.60         | 2.70       | 0.03 | 0.17 | 0.54 | 2.73 | 7.19 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.48         | 0.74       | 0.24         | 3.29       | 0.00 | 0.04 | 0.24 | 1.16 | 4.99 | 100.0     | 1          | 92           | A          |              |

GB0002R Eskdalemuir United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.60         | 0.49       | 0.45         | 2.14       | 0.08 | 0.15 | 0.43 | 1.68 | 2.09 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.53         | 0.54       | 0.39         | 2.02       | 0.13 | 0.17 | 0.31 | 1.65 | 3.32 | 97.8      | 0          | 90           | B          |              |
| NH3+NH4+  | 0.88         | 0.75       | 0.62         | 2.54       | 0.02 | 0.14 | 0.64 | 2.40 | 3.08 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.31         | 0.33       | 0.19         | 2.84       | 0.00 | 0.05 | 0.21 | 1.04 | 1.70 | 96.7      | 2          | 89           | A          |              |

GB0002R Eskdalemuir United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.49         | 0.34       | 0.41         | 1.81       | 0.08 | 0.18 | 0.38 | 1.07 | 2.03 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.52         | 0.46       | 0.40         | 2.01       | 0.05 | 0.14 | 0.34 | 1.48 | 2.71 | 100.0     | 1          | 91           | B          |              |
| NH3+NH4+  | 0.64         | 0.63       | 0.44         | 2.38       | 0.06 | 0.10 | 0.44 | 1.82 | 4.03 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.28         | 0.30       | 0.19         | 2.47       | 0.03 | 0.04 | 0.19 | 0.83 | 1.57 | 100.0     | 0          | 91           | A          |              |

GB0004R Stoke Ferry United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.78         | 0.43       | 0.69         | 1.65       | 0.25 | 0.29 | 0.64 | 1.60 | 2.44 | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.91         | 1.34       | 1.49         | 2.09       | 0.14 | 0.50 | 1.40 | 4.53 | 5.73 | 100.0     | 1          | 90           | B          |              |

GB0004R Stoke Ferry United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.03         | 0.55       | 0.90         | 1.68       | 0.20 | 0.42 | 0.93 | 1.98 | 3.05 | 96.7      | 0          | 89           | A          |              |
| SO2       | 1.40         | 0.95       | 1.15         | 1.88       | 0.20 | 0.39 | 1.08 | 2.96 | 5.23 | 96.7      | 0          | 89           | B          |              |

GB0004R Stoke Ferry United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.86         | 0.44       | 0.75         | 1.71       | 0.18 | 0.28 | 0.73 | 1.68 | 2.21 | 97.8      | 0          | 90           | A          |              |
| SO2       | 1.22         | 0.99       | 1.01         | 1.76       | 0.37 | 0.49 | 0.98 | 2.55 | 7.19 | 98.9      | 0          | 91           | B          |              |

GB0004R Stoke Ferry United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.74         | 0.63       | 0.56         | 2.15       | 0.08 | 0.12 | 0.58 | 2.05 | 3.22 | 84.6      | 0          | 77           | A          |              |
| SO2       | 1.31         | 0.86       | 1.04         | 2.05       | 0.13 | 0.30 | 1.11 | 2.76 | 4.56 | 84.6      | 2          | 77           | B          |              |

GB0006R Lough Navar United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.24         | 0.15       | 0.20         | 1.87       | 0.03 | 0.05 | 0.20 | 0.60 | 0.69 | 98.9      | 0          | 89           | A          |              |
| SO2       | 0.27         | 0.15       | 0.24         | 1.71       | 0.08 | 0.08 | 0.24 | 0.54 | 0.93 | 88.9      | 12         | 80           | B          |              |

GB0006R Lough Navar United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.50         | 0.49       | 0.34         | 2.55       | 0.01 | 0.08 | 0.31 | 1.60 | 2.43 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.30         | 0.22       | 0.26         | 1.72       | 0.07 | 0.09 | 0.24 | 0.67 | 1.60 | 100.0     | 5          | 92           | B          |              |

GB0006R Lough Navar United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.51         | 0.46       | 0.37         | 2.22       | 0.04 | 0.12 | 0.34 | 1.65 | 2.19 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.31         | 0.22       | 0.26         | 1.78       | 0.06 | 0.11 | 0.27 | 0.78 | 1.20 | 98.9      | 4          | 91           | B          |              |

GB0006R Lough Navar United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.38         | 0.38       | 0.27         | 2.17       | 0.04 | 0.10 | 0.23 | 1.17 | 2.10 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.27         | 0.23       | 0.21         | 1.92       | 0.06 | 0.07 | 0.20 | 0.79 | 1.34 | 97.8      | 12         | 89           | B          |              |

GB0007R Barcomb Mills United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.84         | 0.59       | 0.71         | 1.77       | 0.08 | 0.31 | 0.72 | 1.76 | 4.30 | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.04         | 0.98       | 0.74         | 2.22       | 0.23 | 0.25 | 0.62 | 3.17 | 4.47 | 100.0     | 0          | 90           | B          |              |

GB0007R Barcomb Mills United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.13         | 0.50       | 1.04         | 1.50       | 0.45 | 0.59 | 0.98 | 2.07 | 2.88 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.89         | 0.55       | 0.75         | 1.82       | 0.18 | 0.29 | 0.75 | 2.11 | 2.40 | 100.0     | 0          | 92           | B          |              |

GB0007R Barcomb Mills United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.93         | 0.55       | 0.78         | 1.85       | 0.15 | 0.24 | 0.77 | 2.12 | 2.47 | 91.3      | 0          | 84           | A          |              |
| SO2       | 0.94         | 0.60       | 0.81         | 1.76       | 0.09 | 0.38 | 0.76 | 1.97 | 3.73 | 100.0     | 1          | 92           | B          |              |

GB0007R Barcomb Mills United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.79         | 0.56       | 0.66         | 1.76       | 0.23 | 0.31 | 0.59 | 1.90 | 3.12 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.86         | 0.61       | 0.69         | 1.95       | 0.09 | 0.28 | 0.68 | 2.14 | 3.23 | 100.0     | 1          | 91           | B          |              |

GB0013R Yarner Wood United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.62         | 0.63       | 0.45         | 2.19       | 0.04 | 0.14 | 0.46 | 1.42 | 4.30 | 94.4      | 0          | 85           | A          |              |
| SO2       | 0.48         | 0.68       | 0.30         | 2.39       | 0.05 | 0.09 | 0.24 | 1.20 | 4.02 | 88.9      | 5          | 80           | B          |              |

GB0013R Yarner Wood United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.66         | 0.53       | 0.49         | 2.22       | 0.04 | 0.12 | 0.44 | 1.65 | 2.56 | 90.2      | 0          | 83           | A          |              |
| SO2       | 0.53         | 0.62       | 0.34         | 2.45       | 0.05 | 0.09 | 0.25 | 1.75 | 2.95 | 90.2      | 4          | 83           | B          |              |

GB0013R Yarner Wood United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.76         | 0.48       | 0.63         | 1.85       | 0.19 | 0.23 | 0.61 | 1.75 | 2.19 | 75.0      | 0          | 69           | A          |              |
| SO2       | 0.56         | 0.34       | 0.48         | 1.70       | 0.19 | 0.23 | 0.41 | 1.31 | 1.59 | 75.0      | 0          | 69           | B          |              |

GB0013R Yarner Wood United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.53         | 0.57       | 0.34         | 2.50       | 0.04 | 0.08 | 0.28 | 1.63 | 2.71 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.74         | 0.85       | 0.47         | 2.50       | 0.07 | 0.14 | 0.37 | 2.78 | 3.81 | 96.7      | 2          | 88           | B          |              |

GB0014R High Muffles United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.47         | 0.23       | 0.43         | 1.50       | 0.20 | 0.24 | 0.40 | 0.92 | 1.43 | 97.8      | 0          | 88           | A          |              |
| SO2       | 0.42         | 0.37       | 0.33         | 1.99       | 0.05 | 0.14 | 0.30 | 1.09 | 2.16 | 97.8      | 1          | 88           | B          |              |
| NH3+NH4+  | 1.27         | 0.87       | 1.07         | 1.79       | 0.17 | 0.47 | 1.03 | 2.60 | 6.47 | 98.9      | 0          | 89           |            |              |
| HNO3+NO3  | 0.64         | 0.56       | 0.48         | 2.21       | 0.05 | 0.12 | 0.52 | 1.44 | 4.17 | 90.0      | 1          | 81           |            |              |

GB0014R High Muffles United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.67         | 0.46       | 0.55         | 1.86       | 0.19 | 0.23 | 0.53 | 1.46 | 2.33  | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.35         | 0.27       | 0.29         | 1.80       | 0.11 | 0.13 | 0.25 | 0.79 | 1.71  | 100.0     | 0          | 92           | B          |              |
| NH3+NH4+  | 2.49         | 2.68       | 1.40         | 3.40       | 0.08 | 0.08 | 1.59 | 7.20 | 12.21 | 40.2      | 0          | 37           |            |              |
| HNO3+NO3  | 1.30         | 1.79       | 0.57         | 4.30       | 0.00 | 0.05 | 0.53 | 4.91 | 8.08  | 40.2      | 1          | 37           |            |              |

GB0014R High Muffles United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.72         | 0.54       | 0.58         | 1.92       | 0.16 | 0.21 | 0.55 | 1.71 | 3.24 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.81         | 0.87       | 0.57         | 2.19       | 0.20 | 0.21 | 0.44 | 2.49 | 5.57 | 93.5      | 0          | 86           | B          |              |

GB0014R High Muffles United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.65         | 0.53       | 0.52         | 1.91       | 0.12 | 0.19 | 0.48 | 1.83 | 2.77 | 100.0     | 0          | 91           | A          |              |
| SO2       | 1.49         | 1.26       | 1.03         | 2.46       | 0.14 | 0.22 | 1.11 | 4.03 | 6.10 | 100.0     | 0          | 91           | B          |              |

GB0015R Strathvaich Dam United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.54         | 0.60       | 0.41         | 1.87       | 0.20 | 0.20 | 0.34 | 1.32 | 4.30 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.29         | 0.27       | 0.24         | 1.79       | 0.09 | 0.13 | 0.17 | 0.69 | 1.91 | 97.8      | 65         | 88           | B          |              |

GB0015R Strathvaich Dam United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.53         | 0.51       | 0.40         | 2.02       | 0.09 | 0.16 | 0.33 | 1.65 | 2.77 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.37         | 0.24       | 0.31         | 1.77       | 0.14 | 0.15 | 0.36 | 0.73 | 1.49 | 100.0     | 33         | 92           | B          |              |

GB0015R Strathvaich Dam United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.37         | 0.40       | 0.26         | 2.18       | 0.09 | 0.10 | 0.24 | 1.19 | 2.01 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.45         | 0.28       | 0.38         | 1.82       | 0.12 | 0.14 | 0.41 | 1.00 | 1.78 | 100.0     | 19         | 92           | B          |              |

GB0015R Strathvaich Dam United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.29         | 0.29       | 0.21         | 2.26       | 0.02 | 0.06 | 0.17 | 0.85 | 1.37 | 100.0     | 1          | 91           | A          |              |
| SO2       | 0.34         | 0.25       | 0.28         | 1.87       | 0.03 | 0.14 | 0.31 | 0.68 | 1.92 | 100.0     | 32         | 91           | B          |              |

GB0016R Glen Dye United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.26         | 0.22       | 0.20         | 1.97       | 0.05 | 0.07 | 0.17 | 0.75 | 1.20 | 95.6      | 0          | 86           | A          |              |
| SO2       | 0.40         | 0.55       | 0.26         | 2.30       | 0.08 | 0.08 | 0.24 | 1.28 | 3.94 | 95.6      | 18         | 86           | B          |              |

GB0016R Glen Dye United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.65         | 0.66       | 0.44         | 2.45       | 0.07 | 0.10 | 0.45 | 1.84 | 3.51 | 96.7      | 0          | 89           | A          |              |
| SO2       | 0.51         | 0.61       | 0.34         | 2.28       | 0.08 | 0.09 | 0.29 | 1.39 | 4.27 | 97.8      | 9          | 90           | B          |              |

GB0016R Glen Dye United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.50         | 0.41       | 0.38         | 2.01       | 0.08 | 0.14 | 0.36 | 1.28 | 2.03 | 97.8      | 0          | 90           | A          |              |
| SO2       | 0.35         | 0.25       | 0.28         | 1.97       | 0.08 | 0.08 | 0.29 | 0.90 | 1.34 | 100.0     | 13         | 92           | B          |              |

GB0016R Glen Dye United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.44         | 0.46       | 0.29         | 2.46       | 0.06 | 0.09 | 0.25 | 1.44 | 2.31 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.41         | 0.35       | 0.31         | 2.14       | 0.07 | 0.10 | 0.29 | 1.15 | 1.57 | 100.0     | 16         | 91           | B          |              |

GB0036R Harwell United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.20         | 3.61       | 4.10         | 2.01       | 1.10 | 1.43 | 3.60 | 12.05 | 15.80 | 95.6      | 0          | 86           | C          |              |

GB0036R Harwell United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.18         | 3.73       | 3.05         | 2.22       | 0.50 | 0.90 | 3.10 | 12.65 | 16.60 | 54.3      | 0          | 50           | C          |              |

GB0036R Harwell United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.05         | 2.81       | 2.30         | 2.03       | 1.00 | 1.02 | 1.75 | 8.05 | 12.20 | 27.2      | 0          | 25           | C          |              |

GB0036R Harwell United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.54         | 2.10       | 2.91         | 1.99       | 0.40 | 0.64 | 2.90 | 7.58 | 8.50 | 30.8      | 0          | 28           | C          |              |

GB0037R Ladybower United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.99         | 2.74       | 3.12         | 2.07       | 0.60 | 0.90 | 3.10 | 9.84 | 11.40 | 93.3      | 0          | 84           | C          |              |

GB0037R Ladybower United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.54         | 2.27       | 2.96         | 1.83       | 0.60 | 1.10 | 3.30 | 6.96 | 15.00 | 95.7      | 0          | 88           | C          |              |

GB0037R Ladybower United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.05         | 1.33       | 2.75         | 1.61       | 0.60 | 1.23 | 2.90 | 5.64 | 7.20 | 93.5      | 0          | 86           | C          |              |

GB0037R Ladybower United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.39         | 1.57       | 2.99         | 1.74       | 0.60 | 0.92 | 3.30 | 6.04 | 7.50 | 61.5      | 0          | 56           | C          |              |

GB0038R Lullington Heath United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.78         | 3.68       | 3.60         | 2.20       | 0.50 | 0.83 | 3.50 | 12.32 | 16.10 | 96.7      | 0          | 87           | C          |              |

GB0038R Lullington Heath United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.25         | 2.61       | 3.56         | 1.83       | 0.90 | 1.40 | 3.40 | 9.40 | 12.00 | 97.8      | 0          | 90           | C          |              |

GB0038R Lullington Heath United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.01         | 1.49       | 2.61         | 1.78       | 0.90 | 0.90 | 2.80 | 4.81 | 5.80 | 19.6      | 0          | 18           | C          |              |

GB0038R Lullington Heath United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.54         | 2.76       | 3.64         | 2.10       | 0.50 | 0.62 | 3.70 | 9.98 | 11.30 | 52.7      | 0          | 48           | C          |              |

GB0043R Narberth United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.67         | 1.27       | 1.35         | 1.90       | 0.30 | 0.44 | 1.30 | 4.39 | 6.20 | 52.2      | 0          | 47           | C          |              |

GB0043R Narberth United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.88         | 0.77       | 1.75         | 1.53       | 1.10 | 1.10 | 1.40 | 2.68 | 2.80 | 4.3       | 0          | 4            | C          |              |

GB0043R Narberth United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.56         | 0.91       | 1.34         | 1.76       | 0.30 | 0.40 | 1.40 | 3.40 | 5.80 | 97.8      | 0          | 90           | C          |              |

GB0043R Narberth United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.62         | 1.27       | 1.25         | 2.10       | 0.00 | 0.30 | 1.20 | 4.01 | 6.40 | 97.8      | 1          | 89           | C          |              |

GB0045R Wicken Fen United Kingdom

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 5.87         | 3.51       | 4.73         | 2.04       | 0.90 | 1.00 | 5.15 | 11.86 | 13.90 | 74.4      | 0          | 67           | C          |              |

GB0045R Wicken Fen United Kingdom

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.72         | 2.44       | 3.01         | 1.97       | 0.60 | 0.81 | 2.85 | 7.38 | 11.80 | 88.0      | 0          | 81           | C          |              |

GB0045R Wicken Fen United Kingdom

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.95         | 1.27       | 2.62         | 1.73       | 0.20 | 0.85 | 2.75 | 5.09 | 6.70 | 90.2      | 0          | 83           | C          |              |

GB0045R Wicken Fen United Kingdom

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.93         | 2.11       | 4.46         | 1.59       | 1.40 | 1.87 | 4.70 | 8.63 | 11.10 | 84.6      | 0          | 77           | C          |              |

GR0001R Aliartos Greece

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.36         | 0.22       | 0.28         | 2.76       | 0.00 | 0.03 | 0.31 | 0.74 | 1.01 | 61.1      | 1          | 55           | U          |              |
| NO2       | 2.01         | 1.08       | 1.64         | 2.10       | 0.10 | 0.46 | 2.10 | 3.58 | 3.90 | 57.8      | 0          | 52           | B          |              |
| SO4--     | 1.01         | 0.70       | 0.76         | 2.46       | 0.03 | 0.12 | 0.83 | 2.48 | 2.94 | 61.1      | 0          | 55           | A          |              |
| SO2       | 0.68         | 0.51       | 0.55         | 1.96       | 0.10 | 0.14 | 0.60 | 1.60 | 3.00 | 53.3      | 0          | 48           | C          |              |

GR0001R Aliartos Greece

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.31         | 0.20       | 0.27         | 2.27       | 0.00 | 0.08 | 0.27 | 0.73 | 1.01 | 89.1      | 2          | 82           | U          |              |
| NO2       | 2.61         | 1.39       | 2.30         | 1.76       | 0.00 | 0.00 | 2.60 | 4.90 | 6.60 | 87.0      | 4          | 80           | B          |              |
| SO4--     | 1.19         | 0.62       | 1.01         | 1.89       | 0.05 | 0.35 | 1.04 | 2.42 | 2.94 | 88.0      | 0          | 81           | A          |              |
| SO2       | 0.94         | 0.77       | 0.71         | 2.22       | 0.10 | 0.19 | 0.70 | 2.22 | 4.20 | 83.7      | 0          | 77           | C          |              |

GR0001R Aliartos Greece

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.20         | 0.08       | 0.18         | 1.61       | 0.02 | 0.08 | 0.19 | 0.32 | 0.39 | 77.2      | 0          | 71           | U          |              |
| NO2       | 3.65         | 1.07       | 3.46         | 1.44       | 0.80 | 1.71 | 3.90 | 5.20 | 5.50 | 77.2      | 0          | 71           | B          |              |
| SO4--     | 1.54         | 0.59       | 1.40         | 1.68       | 0.08 | 0.78 | 1.48 | 2.60 | 3.34 | 77.2      | 0          | 71           | A          |              |
| SO2       | 0.41         | 0.38       | 0.32         | 2.29       | 0.00 | 0.04 | 0.30 | 1.20 | 1.70 | 73.9      | 3          | 68           | C          |              |

GR0001R Aliartos Greece

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.30         | 0.18       | 0.23         | 2.74       | 0.00 | 0.01 | 0.26 | 0.65 | 0.71 | 65.9      | 1          | 60           | U          |              |
| NO2       | 3.03         | 1.40       | 2.70         | 1.66       | 0.39 | 1.22 | 2.80 | 5.47 | 6.37 | 96.7      | 0          | 88           | B          |              |
| SO4--     | 1.22         | 0.64       | 0.89         | 2.89       | 0.04 | 0.05 | 1.22 | 2.31 | 2.75 | 65.9      | 0          | 60           | A          |              |
| SO2       | 0.85         | 0.74       | 0.59         | 2.69       | 0.02 | 0.07 | 0.78 | 1.71 | 4.91 | 65.9      | 0          | 60           | C          |              |

HU0002R K-Pusztta Hungary

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.43         | 0.31       | 0.31         | 2.58       | 0.02 | 0.02 | 0.40 | 0.98  | 1.65  | 95.6      | 6          | 86           | U          |              |
| NH3       | 0.43         | 0.31       | 0.31         | 2.58       | 0.02 | 0.02 | 0.40 | 0.98  | 1.65  | 95.6      | 6          | 86           | U          |              |
| NH4+      | 2.73         | 1.67       | 2.10         | 2.50       | 0.01 | 0.50 | 2.41 | 5.77  | 7.41  | 98.9      | 0          | 89           | U          |              |
| NO3-      | 1.09         | 0.69       | 0.83         | 2.52       | 0.00 | 0.18 | 0.88 | 2.35  | 3.10  | 93.3      | 1          | 84           | U          |              |
| HNO3      | 0.26         | 0.25       | 0.19         | 2.49       | 0.00 | 0.06 | 0.20 | 0.79  | 1.30  | 93.3      | 2          | 84           | U          |              |
| NO2       | 2.69         | 1.62       | 2.22         | 2.16       | 0.01 | 0.83 | 2.36 | 4.99  | 11.16 | 97.8      | 1          | 88           | A          |              |
| SO4--     | 2.75         | 2.06       | 2.10         | 2.17       | 0.16 | 0.58 | 2.22 | 7.22  | 9.65  | 98.9      | 0          | 89           | A          |              |
| SO2       | 8.20         | 6.23       | 5.45         | 3.38       | 0.00 | 0.75 | 6.43 | 20.41 | 26.94 | 88.9      | 1          | 80           | A          |              |
| NH3+NH4+  | 2.83         | 1.39       | 2.44         | 1.84       | 0.29 | 0.79 | 2.54 | 5.46  | 6.23  | 88.9      | 0          | 80           | B          |              |
| HNO3+NO3  | 1.36         | 0.72       | 1.14         | 1.98       | 0.05 | 0.29 | 1.12 | 2.58  | 3.29  | 93.3      | 1          | 84           | A          |              |

HU0002R K-Pusztta Hungary

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.19         | 1.00       | 0.71         | 3.44       | 0.02 | 0.06 | 0.94 | 2.95 | 4.02 | 94.6      | 2          | 87           | U          |              |
| NH3       | 1.19         | 1.00       | 0.71         | 3.44       | 0.02 | 0.06 | 0.94 | 2.95 | 4.02 | 94.6      | 2          | 87           | U          |              |
| NH4+      | 1.74         | 0.88       | 1.48         | 1.91       | 0.10 | 0.35 | 1.68 | 3.37 | 4.48 | 91.3      | 0          | 84           | U          |              |
| NO3-      | 0.60         | 0.41       | 0.45         | 2.55       | 0.00 | 0.12 | 0.53 | 1.28 | 2.06 | 91.3      | 1          | 84           | U          |              |
| HNO3      | 0.29         | 0.20       | 0.23         | 2.11       | 0.00 | 0.08 | 0.26 | 0.55 | 1.33 | 91.3      | 1          | 84           | U          |              |
| NO2       | 1.22         | 0.55       | 1.05         | 1.98       | 0.01 | 0.50 | 1.11 | 2.29 | 3.19 | 98.9      | 1          | 91           | A          |              |
| SO4--     | 1.62         | 0.94       | 1.31         | 2.16       | 0.06 | 0.24 | 1.31 | 3.63 | 4.56 | 91.3      | 0          | 84           | A          |              |
| SO2       | 2.88         | 2.14       | 2.04         | 2.57       | 0.12 | 0.30 | 2.38 | 7.43 | 8.95 | 91.3      | 0          | 84           | A          |              |
| NH3+NH4+  | 2.99         | 1.30       | 2.65         | 1.73       | 0.29 | 0.84 | 2.70 | 5.12 | 6.31 | 90.2      | 0          | 83           | B          |              |
| HNO3+NO3  | 0.89         | 0.50       | 0.73         | 2.04       | 0.05 | 0.23 | 0.83 | 1.67 | 2.62 | 91.3      | 1          | 84           | A          |              |

HU0002R K-Pusztta Hungary

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.70         | 1.32       | 1.13         | 3.40       | 0.02 | 0.02 | 1.55 | 3.91 | 7.64 | 97.8      | 5          | 90           | U          |              |
| NH3       | 1.70         | 1.32       | 1.13         | 3.40       | 0.02 | 0.02 | 1.55 | 3.91 | 7.64 | 97.8      | 5          | 90           | U          |              |
| NH4+      | 1.35         | 0.72       | 1.02         | 2.85       | 0.00 | 0.14 | 1.31 | 2.71 | 3.09 | 100.0     | 2          | 92           | U          |              |
| NO3-      | 0.20         | 0.12       | 0.16         | 2.10       | 0.00 | 0.05 | 0.18 | 0.42 | 0.83 | 100.0     | 1          | 92           | U          |              |
| HNO3      | 0.23         | 0.13       | 0.18         | 2.52       | 0.00 | 0.04 | 0.23 | 0.46 | 0.53 | 98.9      | 3          | 91           | U          |              |
| NO2       | 1.28         | 0.54       | 1.17         | 1.53       | 0.33 | 0.54 | 1.21 | 2.28 | 3.10 | 91.3      | 0          | 84           | A          |              |
| SO4--     | 1.66         | 0.79       | 1.47         | 1.70       | 0.24 | 0.50 | 1.59 | 3.08 | 4.04 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.44         | 0.90       | 1.14         | 2.15       | 0.06 | 0.23 | 1.24 | 3.00 | 5.19 | 98.9      | 0          | 91           | A          |              |
| NH3+NH4+  | 3.01         | 1.48       | 2.63         | 1.80       | 0.18 | 0.66 | 2.91 | 5.18 | 9.64 | 100.0     | 2          | 92           | B          |              |
| HNO3+NO3  | 0.43         | 0.19       | 0.38         | 1.74       | 0.03 | 0.13 | 0.41 | 0.76 | 0.96 | 98.9      | 1          | 91           | A          |              |

HU0002R K-Pusztá Hungary

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.31         | 0.87       | 0.81         | 3.78       | 0.02 | 0.02 | 1.33 | 2.53 | 4.39  | 98.9      | 5          | 90           | U          |              |
| NH3       | 1.31         | 0.87       | 0.81         | 3.78       | 0.02 | 0.02 | 1.33 | 2.53 | 4.39  | 98.9      | 5          | 90           | U          |              |
| NH4+      | 1.55         | 1.17       | 1.03         | 3.12       | 0.00 | 0.12 | 1.17 | 3.90 | 4.92  | 98.9      | 1          | 90           | U          |              |
| NO3-      | 0.67         | 0.52       | 0.46         | 2.86       | 0.00 | 0.08 | 0.47 | 1.67 | 2.38  | 97.8      | 2          | 89           | U          |              |
| HNO3      | 0.25         | 0.28       | 0.19         | 2.12       | 0.00 | 0.06 | 0.19 | 0.49 | 2.50  | 98.9      | 1          | 90           | U          |              |
| NO2       | 2.00         | 1.09       | 1.59         | 2.55       | 0.01 | 0.62 | 1.70 | 4.22 | 5.86  | 98.9      | 2          | 90           | A          |              |
| SO4--     | 1.85         | 1.27       | 1.50         | 1.99       | 0.11 | 0.40 | 1.50 | 3.51 | 9.58  | 98.9      | 0          | 90           | A          |              |
| SO2       | 2.92         | 2.46       | 2.14         | 2.45       | 0.04 | 0.41 | 2.32 | 7.67 | 16.90 | 98.9      | 0          | 90           | A          |              |
| NH3+NH4+  | 2.83         | 1.21       | 2.55         | 1.70       | 0.11 | 1.25 | 2.67 | 5.16 | 6.51  | 97.8      | 1          | 89           | B          |              |
| HNO3+NO3  | 0.92         | 0.61       | 0.73         | 2.07       | 0.05 | 0.26 | 0.71 | 2.06 | 3.05  | 97.8      | 2          | 89           | A          |              |

IE0002R Turlough Hill Ireland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.28         | 0.26       | 0.20         | 2.59       | 0.00 | 0.03 | 0.21 | 0.73 | 1.64 | 100.0     | 1          | 90           | A          |              |
| SO2       | 0.18         | 0.59       | 0.09         | 3.00       | 0.00 | 0.00 | 0.06 | 0.45 | 5.50 | 98.9      | 4          | 89           | A          |              |

IE0002R Turlough Hill Ireland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.48         | 0.35       | 0.37         | 2.10       | 0.05 | 0.10 | 0.36 | 1.15 | 1.75 | 89.1      | 0          | 82           | A          |              |
| SO2       | 0.20         | 0.32       | 0.09         | 3.56       | 0.00 | 0.01 | 0.06 | 0.72 | 1.58 | 89.1      | 2          | 82           | A          |              |

IE0002R Turlough Hill Ireland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.43         | 0.42       | 0.31         | 2.20       | 0.04 | 0.07 | 0.30 | 1.11 | 2.72 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.10         | 0.13       | 0.06         | 2.78       | 0.00 | 0.01 | 0.05 | 0.41 | 0.62 | 100.0     | 1          | 92           | A          |              |

IE0002R Turlough Hill Ireland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.30         | 0.23       | 0.24         | 1.90       | 0.06 | 0.10 | 0.24 | 0.76 | 1.25 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.09         | 0.10       | 0.06         | 3.06       | 0.00 | 0.01 | 0.05 | 0.29 | 0.44 | 97.8      | 3          | 89           | A          |              |

IE0003R The Burren Ireland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.23         | 0.33       | 0.15         | 2.89       | 0.00 | 0.01 | 0.14 | 0.62 | 2.08 | 100.0     | 3          | 90           | A          |              |

IE0003R The Burren Ireland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.45         | 0.49       | 0.30         | 2.40       | 0.04 | 0.08 | 0.25 | 1.49 | 2.78 | 100.0     | 0          | 92           | A          |              |

IE0003R The Burren Ireland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.41         | 0.38       | 0.29         | 2.43       | 0.00 | 0.07 | 0.24 | 1.21 | 1.68 | 83.7      | 1          | 77           | A          |              |

IE0003R The Burren Ireland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.31         | 0.38       | 0.21         | 2.50       | 0.00 | 0.03 | 0.15 | 1.20 | 2.02 | 100.0     | 2          | 91           | A          |              |

IS0002R Irafoss Iceland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.10         | 0.07       | 0.08         | 2.01       | 0.01 | 0.03 | 0.09 | 0.23 | 0.40 | 96.7      | 0          | 87           | A          |              |

IS0002R Irafoss Iceland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.18         | 0.15       | 0.13         | 2.27       | 0.01 | 0.04 | 0.11 | 0.51 | 0.86 | 97.8      | 0          | 90           | A          |              |

IS0002R Irafoss Iceland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.17         | 0.16       | 0.12         | 2.47       | 0.00 | 0.03 | 0.13 | 0.40 | 1.04 | 96.7      | 0          | 89           | A          |              |

IS0002R Irafoss Iceland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.09         | 0.10       | 0.05         | 3.28       | 0.00 | 0.01 | 0.06 | 0.33 | 0.45 | 100.0     | 1          | 91           | A          |              |

IT0001R Montelibretti Italy

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.05         | 0.56       | 0.86         | 2.07       | 0.11 | 0.15 | 1.08 | 2.01 | 2.34 | 74.4      | 0          | 67           | A          |              |
| NH4+      | 1.50         | 0.66       | 1.36         | 1.60       | 0.29 | 0.53 | 1.36 | 2.61 | 3.53 | 74.4      | 0          | 67           | A          |              |
| NO3-      | 1.01         | 0.57       | 0.84         | 1.98       | 0.11 | 0.19 | 0.89 | 1.97 | 2.53 | 74.4      | 0          | 67           | A          |              |
| HNO3      | 0.04         | 0.02       | 0.03         | 2.03       | 0.00 | 0.01 | 0.03 | 0.09 | 0.13 | 74.4      | 0          | 67           | A          |              |
| NO2       | 3.83         | 2.06       | 3.04         | 2.25       | 0.22 | 0.52 | 3.73 | 7.11 | 8.50 | 82.2      | 0          | 74           | C          |              |
| SO4--     | 0.65         | 0.25       | 0.61         | 1.47       | 0.17 | 0.30 | 0.63 | 1.03 | 1.70 | 74.4      | 0          | 67           | A          |              |
| SO2       | 0.50         | 0.34       | 0.40         | 1.92       | 0.13 | 0.15 | 0.39 | 1.27 | 1.61 | 74.4      | 0          | 67           | A          |              |
| NH3+NH4+  | 2.40         | 0.96       | 2.22         | 1.51       | 0.71 | 0.95 | 2.30 | 4.16 | 5.28 | 76.7      | 0          | 69           |            |              |
| HNO3+NO3  | 1.11         | 0.66       | 0.90         | 2.02       | 0.18 | 0.21 | 0.94 | 2.54 | 2.68 | 76.7      | 0          | 69           |            |              |

IT0001R Montelibretti Italy

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.45         | 0.87       | 1.21         | 1.89       | 0.23 | 0.39 | 1.25 | 3.10 | 4.21 | 100.0     | 0          | 92           | A          |              |
| NH4+      | 1.49         | 0.77       | 1.27         | 1.85       | 0.26 | 0.36 | 1.46 | 2.78 | 3.58 | 100.0     | 0          | 92           | A          |              |
| NO3-      | 0.86         | 0.53       | 0.70         | 1.95       | 0.12 | 0.20 | 0.76 | 1.68 | 2.53 | 100.0     | 0          | 92           | A          |              |
| HNO3      | 0.14         | 0.11       | 0.10         | 2.39       | 0.01 | 0.03 | 0.10 | 0.39 | 0.48 | 100.0     | 0          | 92           | A          |              |
| NO2       | 4.72         | 1.69       | 4.45         | 1.42       | 1.98 | 2.52 | 4.49 | 8.14 | 9.25 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 1.13         | 0.69       | 0.93         | 1.95       | 0.22 | 0.26 | 1.00 | 2.50 | 3.31 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.35         | 0.23       | 0.28         | 1.91       | 0.07 | 0.09 | 0.31 | 0.71 | 1.40 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 2.94         | 1.24       | 2.64         | 1.66       | 0.68 | 0.90 | 2.87 | 5.14 | 5.72 | 100.0     | 0          | 92           |            |              |
| HNO3+NO3  | 0.99         | 0.57       | 0.83         | 1.89       | 0.18 | 0.24 | 0.87 | 1.92 | 2.68 | 100.0     | 0          | 92           |            |              |

IT0001R Montelibretti Italy

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 2.33         | 0.57       | 2.24         | 1.37       | 0.32 | 1.43 | 2.36 | 3.20 | 4.04 | 91.3      | 0          | 84           | A          |              |
| NH4+      | 1.55         | 0.63       | 1.39         | 1.71       | 0.08 | 0.52 | 1.50 | 2.50 | 3.47 | 91.3      | 0          | 84           | A          |              |
| NO3-      | 0.56         | 0.31       | 0.48         | 1.79       | 0.05 | 0.18 | 0.50 | 1.17 | 1.61 | 91.3      | 0          | 84           | A          |              |
| HNO3      | 0.30         | 0.13       | 0.26         | 1.84       | 0.03 | 0.06 | 0.30 | 0.52 | 0.62 | 91.3      | 0          | 84           | A          |              |
| NO2       | 3.88         | 1.06       | 3.72         | 1.34       | 1.14 | 2.30 | 3.91 | 5.58 | 6.79 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 1.50         | 0.63       | 1.35         | 1.61       | 0.35 | 0.50 | 1.48 | 2.57 | 2.99 | 91.3      | 0          | 84           | A          |              |
| SO2       | 0.47         | 0.22       | 0.40         | 1.99       | 0.01 | 0.10 | 0.45 | 0.82 | 1.12 | 91.3      | 0          | 84           | A          |              |
| NH3+NH4+  | 3.88         | 0.90       | 3.73         | 1.40       | 0.40 | 2.21 | 3.95 | 5.17 | 5.98 | 91.3      | 0          | 84           |            |              |
| HNO3+NO3  | 0.86         | 0.34       | 0.79         | 1.58       | 0.11 | 0.39 | 0.83 | 1.45 | 1.87 | 91.3      | 0          | 84           |            |              |

IT0001R Montelibretti Italy

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 1.26         | 0.66       | 1.03         | 2.31       | 0.00 | 0.26 | 1.14 | 2.39 | 3.13 | 96.7      | 0          | 88           | A          |              |
| NH4+      | 1.19         | 0.59       | 1.04         | 1.71       | 0.23 | 0.45 | 1.09 | 2.25 | 2.72 | 96.7      | 0          | 88           | A          |              |
| NO3-      | 0.69         | 0.47       | 0.57         | 1.82       | 0.16 | 0.21 | 0.58 | 1.57 | 2.38 | 96.7      | 0          | 88           | A          |              |
| HNO3      | 0.12         | 0.10       | 0.08         | 2.51       | 0.01 | 0.02 | 0.09 | 0.31 | 0.51 | 96.7      | 0          | 88           | A          |              |
| NO2       | 4.18         | 1.35       | 3.96         | 1.41       | 0.99 | 2.38 | 4.09 | 6.94 | 8.71 | 100.0     | 0          | 91           | C          |              |
| SO4--     | 0.86         | 0.47       | 0.75         | 1.70       | 0.24 | 0.29 | 0.72 | 1.79 | 2.35 | 96.7      | 0          | 88           | A          |              |
| SO2       | 0.23         | 0.15       | 0.19         | 1.92       | 0.05 | 0.07 | 0.20 | 0.57 | 0.64 | 96.7      | 0          | 88           | A          |              |
| NH3+NH4+  | 2.45         | 1.06       | 2.22         | 1.58       | 0.71 | 1.05 | 2.12 | 4.17 | 5.17 | 96.7      | 0          | 88           |            |              |
| HNO3+NO3  | 0.81         | 0.49       | 0.69         | 1.71       | 0.23 | 0.28 | 0.68 | 1.78 | 2.57 | 96.7      | 0          | 88           |            |              |

IT0004R Ispira Italy

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%   | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 8.4          | 13.4       | -            | -          | 1.0  | 1.0  | 4.0   | 31.5  | 81.0  | 100.0     | 0          | 90           |            |              |
| NH4+      | 3.04         | 2.92       | 1.81         | 3.08       | 0.14 | 0.22 | 2.27  | 9.44  | 12.35 | 100.0     | 0          | 90           | U          |              |
| NO3-      | 2.15         | 2.09       | 1.22         | 3.42       | 0.06 | 0.12 | 1.50  | 6.38  | 10.37 | 100.0     | 0          | 90           | U          |              |
| NO2       | 11.16        | 5.14       | 9.76         | 1.78       | 2.10 | 2.60 | 11.20 | 18.60 | 30.70 | 100.0     | 0          | 90           | C          |              |
| SO4--     | 0.86         | 0.74       | 0.55         | 3.05       | 0.02 | 0.05 | 0.62  | 2.33  | 3.24  | 100.0     | 0          | 90           | B          |              |
| SO2       | 1.63         | 0.94       | 1.35         | 1.92       | 0.50 | 0.50 | 1.50  | 3.35  | 4.10  | 100.0     | 0          | 90           | U          |              |
| SPM       | 65.9         | 37.1       | 54.8         | 2.0        | 5.0  | 13.0 | 59.0  | 147.5 | 180.0 | 100.0     | 0          | 90           |            |              |

IT0004R Ispira Italy

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 4.6          | 3.5        | -            | -          | 0.0  | 0.4  | 3.8  | 10.9  | 15.8  | 98.9      | 2          | 91           |            |              |
| NH4+      | 4.55         | 6.19       | 2.82         | 2.53       | 0.25 | 0.57 | 2.66 | 14.42 | 38.93 | 98.9      | 0          | 91           | U          |              |
| NO3-      | 2.40         | 2.20       | 1.75         | 2.23       | 0.13 | 0.49 | 1.64 | 8.21  | 11.33 | 98.9      | 0          | 91           | U          |              |
| NO2       | 6.60         | 3.51       | 5.80         | 1.68       | 1.16 | 2.49 | 5.74 | 13.28 | 18.97 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 1.73         | 1.31       | 1.29         | 2.28       | 0.06 | 0.33 | 1.27 | 4.56  | 6.22  | 98.9      | 0          | 91           | B          |              |
| SO2       | 1.64         | 0.95       | 1.43         | 1.69       | 0.40 | 0.53 | 1.46 | 3.51  | 5.59  | 100.0     | 0          | 92           | U          |              |
| SPM       | 56.5         | 29.4       | 48.5         | 1.8        | 3.7  | 16.1 | 54.8 | 109.5 | 158.3 | 98.9      | 0          | 91           |            |              |

IT0004R Ispira Italy

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 5.1          | 3.8        | -            | -          | 0.1  | 0.6  | 4.2  | 13.6 | 15.8  | 100.0     | 5          | 92           |            |              |
| NH4+      | 1.72         | 1.47       | 1.23         | 2.39       | 0.06 | 0.28 | 1.24 | 4.88 | 7.75  | 100.0     | 0          | 92           | U          |              |
| NO3-      | 1.12         | 0.69       | 0.95         | 1.91       | 0.03 | 0.36 | 1.02 | 2.27 | 5.29  | 100.0     | 0          | 92           | U          |              |
| NO2       | 4.39         | 1.22       | 4.23         | 1.31       | 2.09 | 2.61 | 4.29 | 6.87 | 8.06  | 97.8      | 0          | 90           | C          |              |
| SO4--     | 1.75         | 1.16       | 1.40         | 2.02       | 0.22 | 0.35 | 1.46 | 3.98 | 5.84  | 100.0     | 0          | 92           | B          |              |
| SO2       | 1.26         | 0.50       | 1.16         | 1.52       | 0.27 | 0.53 | 1.20 | 2.05 | 3.19  | 100.0     | 0          | 92           | U          |              |
| SPM       | 49.4         | 23.2       | 42.5         | 1.9        | 4.3  | 10.5 | 48.6 | 79.8 | 145.8 | 100.0     | 0          | 92           |            |              |

IT0004R Ispira Italy

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+        | 8.4          | 4.3        | -            | -          | 0.0  | 2.0  | 8.5  | 15.8  | 17.1  | 98.9      | 1          | 90           |            |              |
| NH4+      | 1.23         | 1.14       | 0.82         | 2.66       | 0.07 | 0.14 | 0.93 | 2.80  | 6.95  | 98.9      | 0          | 90           | U          |              |
| NO3-      | 1.70         | 1.67       | 1.14         | 2.53       | 0.10 | 0.21 | 1.17 | 4.16  | 10.33 | 98.9      | 0          | 90           | U          |              |
| NO2       | 5.95         | 2.64       | 5.41         | 1.56       | 1.62 | 2.51 | 5.45 | 10.80 | 14.38 | 97.8      | 0          | 89           | C          |              |
| SO4--     | 1.53         | 1.15       | 1.15         | 2.22       | 0.17 | 0.26 | 1.25 | 3.89  | 5.61  | 98.9      | 0          | 90           | B          |              |
| SO2       | 1.39         | 0.49       | 1.32         | 1.37       | 0.67 | 0.80 | 1.30 | 2.53  | 3.06  | 98.9      | 0          | 90           | U          |              |
| SPM       | 57.7         | 30.1       | 50.5         | 1.7        | 15.5 | 22.1 | 49.1 | 120.9 | 139.8 | 98.9      | 0          | 90           |            |              |

LT0015R Preila Lithuania

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.44         | 1.00       | 1.17         | 1.95       | 0.08 | 0.41 | 1.18 | 3.17 | 6.17 | 95.6      | 0          | 86           | A          |              |
| SO4--     | 1.12         | 0.56       | 0.99         | 1.70       | 0.23 | 0.39 | 1.02 | 2.18 | 2.63 | 100.0     | 0          | 90           | A          |              |
| SO2       | 2.16         | 1.96       | 1.35         | 2.96       | 0.10 | 0.16 | 1.68 | 6.12 | 9.47 | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 1.70         | 1.23       | 1.28         | 2.26       | 0.12 | 0.26 | 1.45 | 4.31 | 5.30 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.86         | 0.62       | 0.64         | 2.27       | 0.09 | 0.16 | 0.70 | 2.05 | 2.73 | 100.0     | 0          | 90           | A          |              |

LT0015R Preila Lithuania

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.97         | 0.62       | 0.81         | 1.85       | 0.11 | 0.29 | 0.85 | 2.07 | 4.33 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.92         | 0.56       | 0.76         | 1.89       | 0.12 | 0.27 | 0.73 | 1.92 | 2.90 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.04         | 1.14       | 0.66         | 2.56       | 0.10 | 0.18 | 0.56 | 2.80 | 5.85 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.72         | 1.13       | 1.42         | 1.88       | 0.30 | 0.48 | 1.41 | 3.64 | 7.35 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.77         | 0.65       | 0.58         | 2.13       | 0.06 | 0.20 | 0.51 | 1.90 | 4.16 | 100.0     | 0          | 92           | A          |              |

LT0015R Preila Lithuania

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.17         | 0.49       | 1.05         | 1.72       | 0.10 | 0.52 | 1.12 | 1.83 | 3.28 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.72         | 0.52       | 0.53         | 2.36       | 0.06 | 0.08 | 0.55 | 1.74 | 2.27 | 97.8      | 0          | 90           | A          |              |
| SO2       | 0.45         | 0.29       | 0.37         | 1.87       | 0.09 | 0.11 | 0.37 | 1.05 | 1.27 | 97.8      | 0          | 90           | A          |              |
| NH3+NH4+  | 1.44         | 0.86       | 1.19         | 1.95       | 0.19 | 0.34 | 1.26 | 2.99 | 4.45 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.35         | 0.20       | 0.31         | 1.69       | 0.11 | 0.14 | 0.29 | 0.72 | 1.05 | 98.9      | 0          | 91           | A          |              |

LT0015R Preila Lithuania

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.17         | 0.42       | 1.10         | 1.43       | 0.41 | 0.58 | 1.13 | 1.93 | 2.67 | 100.0     | 0          | 91           | A          |              |
| SO4--     | 0.93         | 0.67       | 0.73         | 2.06       | 0.10 | 0.19 | 0.78 | 2.04 | 3.85 | 98.9      | 0          | 90           | A          |              |
| SO2       | 0.80         | 0.73       | 0.58         | 2.25       | 0.11 | 0.15 | 0.55 | 2.11 | 4.05 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 1.62         | 0.99       | 1.30         | 2.06       | 0.15 | 0.31 | 1.48 | 3.28 | 4.54 | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.69         | 0.46       | 0.55         | 2.01       | 0.11 | 0.18 | 0.54 | 1.62 | 1.87 | 100.0     | 0          | 91           | A          |              |

LV0010R Rucava Latvia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.86         | 0.40       | 0.75         | 1.79       | 0.15 | 0.19 | 0.85 | 1.52 | 2.12 | 100.0     | 0          | 90           | U          |              |
| NO3-      | 0.05         | 0.06       | 0.05         | 2.52       | 0.00 | 0.00 | 0.03 | 0.20 | 0.32 | 100.0     | 8          | 90           | U          |              |
| NO2       | 0.66         | 0.43       | 0.53         | 1.98       | 0.10 | 0.20 | 0.50 | 1.45 | 2.20 | 100.0     | 0          | 90           | A          |              |
| SO4--     | 0.23         | 0.45       | 0.13         | 2.59       | 0.00 | 0.03 | 0.09 | 0.73 | 3.50 | 100.0     | 58         | 90           | B          |              |
| SO2       | 0.16         | 0.27       | 0.28         | 2.09       | 0.00 | 0.00 | 0.10 | 0.65 | 1.90 | 100.0     | 81         | 90           | B          |              |
| NH3+NH4+  | 1.67         | 1.23       | 1.28         | 2.14       | 0.21 | 0.28 | 1.28 | 4.31 | 4.97 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.06         | 0.07       | 0.06         | 2.58       | 0.00 | 0.00 | 0.04 | 0.22 | 0.33 | 100.0     | 6          | 90           | A          |              |

LV0010R Rucava Latvia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.26         | 0.51       | 1.14         | 1.61       | 0.22 | 0.48 | 1.24 | 2.10 | 2.33 | 65.2      | 0          | 60           | U          |              |
| NO3-      | 0.03         | 0.06       | 0.02         | 2.05       | 0.00 | 0.01 | 0.02 | 0.05 | 0.46 | 65.2      | 1          | 60           | U          |              |
| NO2       | 0.52         | 0.29       | 0.45         | 1.73       | 0.20 | 0.20 | 0.40 | 1.00 | 1.40 | 65.2      | 0          | 60           | A          |              |
| SO4--     | 0.08         | 0.08       | 0.06         | 2.09       | 0.00 | 0.01 | 0.06 | 0.19 | 0.43 | 65.2      | 50         | 60           | B          |              |
| SO2       | 0.14         | 0.43       | 0.40         | 2.29       | 0.00 | 0.00 | 0.10 | 0.30 | 3.30 | 65.2      | 48         | 60           | B          |              |
| NH3+NH4+  | 2.67         | 1.67       | 1.51         | 5.18       | 0.01 | 0.01 | 2.74 | 4.99 | 5.42 | 57.6      | 0          | 53           | A          |              |
| HNO3+NO3  | 0.04         | 0.06       | 0.03         | 2.02       | 0.00 | 0.01 | 0.02 | 0.06 | 0.47 | 65.2      | 1          | 60           | A          |              |

LV0010R Rucava Latvia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.01         | 0.61       | 0.85         | 1.89       | 0.10 | 0.28 | 0.86 | 2.12 | 2.92 | 97.8      | 1          | 90           | U          |              |
| NO3-      | 0.19         | 0.12       | 0.16         | 1.85       | 0.04 | 0.06 | 0.17 | 0.40 | 0.58 | 100.0     | 0          | 92           | U          |              |
| NO2       | 0.51         | 0.33       | 0.42         | 1.89       | 0.10 | 0.10 | 0.40 | 1.14 | 2.00 | 100.0     | 3          | 92           | A          |              |
| SO4--     | 0.31         | 0.23       | 0.23         | 2.32       | 0.03 | 0.05 | 0.27 | 0.77 | 1.00 | 100.0     | 13         | 92           | B          |              |
| SO2       | 0.50         | 0.66       | 0.30         | 2.64       | 0.00 | 0.10 | 0.20 | 1.95 | 3.70 | 97.8      | 27         | 90           | B          |              |
| NH3+NH4+  | 2.39         | 1.45       | 2.03         | 1.77       | 0.70 | 0.80 | 2.09 | 4.91 | 8.69 | 78.3      | 0          | 72           | A          |              |
| HNO3+NO3  | 0.22         | 0.14       | 0.18         | 1.82       | 0.04 | 0.07 | 0.19 | 0.46 | 0.86 | 100.0     | 0          | 92           | A          |              |

LV0010R Rucava Latvia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.98         | 0.58       | 0.78         | 2.13       | 0.06 | 0.17 | 0.84 | 2.11 | 2.27 | 97.8      | 6          | 89           | U          |              |
| NO3-      | 0.25         | 0.17       | 0.18         | 2.40       | 0.01 | 0.04 | 0.19 | 0.51 | 0.85 | 98.9      | 0          | 90           | U          |              |
| NO2       | 0.68         | 0.33       | 0.60         | 1.70       | 0.10 | 0.30 | 0.60 | 1.30 | 1.70 | 100.0     | 0          | 91           | A          |              |
| SO4--     | 0.42         | 0.44       | 0.25         | 3.00       | 0.01 | 0.03 | 0.26 | 1.38 | 2.15 | 98.9      | 12         | 90           | B          |              |
| SO2       | 0.56         | 0.61       | 0.37         | 2.55       | 0.00 | 0.10 | 0.40 | 2.00 | 2.90 | 98.9      | 20         | 90           | B          |              |
| NH3+NH4+  | 1.49         | 0.72       | 1.31         | 1.70       | 0.31 | 0.44 | 1.39 | 2.63 | 3.67 | 97.8      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.29         | 0.17       | 0.23         | 2.04       | 0.02 | 0.06 | 0.24 | 0.60 | 0.89 | 98.9      | 0          | 90           | A          |              |

LV0016R Zoseni Latvia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.84         | 0.72       | 0.64         | 2.06       | 0.16 | 0.22 | 0.54 | 2.33 | 4.37 | 100.0     | 0          | 90           | U          |              |
| NO3-      | 0.28         | 0.19       | 0.22         | 2.06       | 0.03 | 0.05 | 0.25 | 0.60 | 1.00 | 100.0     | 0          | 90           | U          |              |
| NO2       | 0.82         | 0.36       | 0.75         | 1.52       | 0.30 | 0.40 | 0.80 | 1.45 | 2.30 | 100.0     | 0          | 90           | A          |              |
| SO4--     | 0.63         | 0.68       | 0.36         | 3.24       | 0.02 | 0.03 | 0.37 | 1.97 | 3.94 | 100.0     | 14         | 90           | B          |              |
| SO2       | 0.90         | 0.95       | 0.58         | 2.70       | 0.00 | 0.10 | 0.50 | 2.50 | 4.70 | 100.0     | 4          | 90           | B          |              |
| NH3+NH4+  | 1.00         | 0.76       | 0.80         | 1.91       | 0.20 | 0.29 | 0.66 | 2.53 | 4.73 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.32         | 0.21       | 0.26         | 1.98       | 0.04 | 0.07 | 0.29 | 0.67 | 1.15 | 100.0     | 0          | 90           | A          |              |

LV0016R Zoseni Latvia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.82         | 0.46       | 0.69         | 2.04       | 0.01 | 0.25 | 0.71 | 1.59 | 2.44 | 100.0     | 11         | 92           | U          |              |
| NO3-      | 0.64         | 0.46       | 0.51         | 1.97       | 0.07 | 0.20 | 0.49 | 1.60 | 2.28 | 93.5      | 0          | 86           | U          |              |
| NO2       | 0.58         | 0.27       | 0.54         | 1.47       | 0.20 | 0.30 | 0.50 | 0.94 | 2.20 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 1.12         | 0.69       | 0.93         | 1.84       | 0.19 | 0.36 | 0.89 | 2.49 | 3.20 | 93.5      | 0          | 86           | B          |              |
| SO2       | 0.99         | 0.90       | 0.68         | 2.57       | 0.00 | 0.10 | 0.80 | 3.14 | 4.00 | 93.5      | 13         | 86           | B          |              |
| NH3+NH4+  | 1.13         | 0.56       | 0.99         | 1.69       | 0.26 | 0.38 | 0.99 | 2.23 | 2.71 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.67         | 0.48       | 0.52         | 2.05       | 0.04 | 0.21 | 0.52 | 1.75 | 2.39 | 94.6      | 0          | 87           | A          |              |

LV0016R Zoseni Latvia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.51         | 0.31       | 0.40         | 2.33       | 0.01 | 0.07 | 0.46 | 1.14 | 1.49 | 100.0     | 17         | 92           | U          |              |
| NO3-      | 0.18         | 0.12       | 0.15         | 1.93       | 0.00 | 0.05 | 0.15 | 0.46 | 0.56 | 100.0     | 1          | 92           | U          |              |
| NO2       | 0.56         | 0.24       | 0.51         | 1.49       | 0.20 | 0.30 | 0.50 | 0.90 | 1.40 | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.37         | 0.31       | 0.26         | 2.49       | 0.01 | 0.05 | 0.26 | 1.06 | 1.51 | 100.0     | 16         | 92           | B          |              |
| SO2       | 0.34         | 0.35       | 0.28         | 2.16       | 0.00 | 0.00 | 0.20 | 0.98 | 1.70 | 100.0     | 33         | 92           | B          |              |
| NH3+NH4+  | 1.18         | 0.65       | 1.04         | 1.67       | 0.36 | 0.45 | 1.01 | 2.43 | 3.26 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.20         | 0.13       | 0.17         | 1.90       | 0.00 | 0.06 | 0.16 | 0.48 | 0.60 | 100.0     | 1          | 92           | A          |              |

LV0016R Zoseni Latvia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.55         | 0.43       | 0.39         | 2.54       | 0.01 | 0.06 | 0.43 | 1.20 | 2.12 | 84.6      | 24         | 77           | U          |              |
| NO3-      | 0.22         | 0.14       | 0.18         | 2.08       | 0.02 | 0.04 | 0.19 | 0.52 | 0.68 | 81.3      | 0          | 74           | U          |              |
| NO2       | 0.50         | 0.30       | 0.45         | 1.79       | 0.00 | 0.10 | 0.40 | 1.06 | 1.60 | 96.7      | 2          | 88           | A          |              |
| SO4--     | 0.38         | 0.34       | 0.26         | 2.54       | 0.03 | 0.03 | 0.26 | 1.16 | 1.42 | 81.3      | 10         | 74           | B          |              |
| SO2       | 0.39         | 0.36       | 0.31         | 2.19       | 0.00 | 0.07 | 0.30 | 1.00 | 1.70 | 81.3      | 5          | 74           | B          |              |
| NH3+NH4+  | 0.85         | 0.56       | 0.69         | 1.98       | 0.15 | 0.20 | 0.74 | 1.69 | 3.27 | 84.6      | 0          | 77           | A          |              |
| HNO3+NO3  | 0.26         | 0.15       | 0.22         | 1.90       | 0.04 | 0.06 | 0.23 | 0.54 | 0.71 | 81.3      | 0          | 74           | A          |              |

NL0009R Kollumerwaard Netherlands

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.34         | 1.12       | 0.96         | 2.36       | 0.09 | 0.25 | 0.91 | 3.54  | 6.09  | 98.9      | 0          | 89           | A          |              |
| NO3-      | 0.90         | 0.69       | 0.75         | 2.13       | 0.00 | 0.00 | 0.75 | 2.17  | 3.53  | 98.9      | 5          | 89           | A          |              |
| NO2       | 5.85         | 4.21       | 4.24         | 2.47       | 0.00 | 0.61 | 4.88 | 14.49 | 18.60 | 100.0     | 1          | 90           | C          |              |
| SO4--     | 0.81         | 0.71       | 0.59         | 2.26       | 0.12 | 0.13 | 0.53 | 2.12  | 4.64  | 98.9      | 0          | 89           | A          |              |
| SO2       | 0.90         | 0.59       | 0.91         | 1.57       | 0.00 | 0.00 | 1.00 | 1.50  | 3.51  | 100.0     | 10         | 90           | U          |              |

NL0009R Kollumerwaard Netherlands

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%    | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|-------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.62         | 1.41       | 1.13         | 2.40       | 0.19  | 0.29  | 1.23 | 4.72 | 6.59 | 95.7      | 0          | 88           | A          |              |
| NO3-      | 1.11         | 0.97       | 0.78         | 2.49       | 0.00  | 0.11  | 0.73 | 2.92 | 4.15 | 95.7      | 2          | 88           | A          |              |
| NO2       | 3.57         | 2.04       | 2.91         | 2.02       | 0.30  | 0.80  | 3.35 | 7.13 | 8.85 | 100.0     | 0          | 92           | C          |              |
| SO4--     | 0.88         | 0.74       | 0.66         | 2.20       | 0.00  | 0.13  | 0.53 | 2.55 | 3.34 | 95.7      | 1          | 88           | A          |              |
| SO2       | 0.76         | 0.62       | 0.84         | 1.58       | -0.50 | -0.50 | 0.50 | 2.00 | 2.50 | 100.0     | 14         | 92           | U          |              |

NL0009R Kollumerwaard Netherlands

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%    | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|-------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.09         | 0.85       | 0.81         | 2.34       | 0.06  | 0.14  | 0.88 | 2.58 | 5.81 | 100.0     | 0          | 92           | A          |              |
| NO3-      | 0.59         | 0.46       | 0.49         | 2.12       | 0.00  | 0.05  | 0.44 | 1.38 | 2.62 | 100.0     | 4          | 92           | A          |              |
| NO2       | 2.34         | 1.14       | 2.02         | 1.83       | 0.00  | 0.61  | 2.13 | 4.27 | 5.18 | 100.0     | 1          | 92           | C          |              |
| SO4--     | 0.76         | 0.63       | 0.62         | 2.05       | 0.00  | 0.08  | 0.58 | 1.84 | 4.37 | 100.0     | 4          | 92           | A          |              |
| SO2       | 0.67         | 0.59       | 0.79         | 1.58       | -0.50 | -0.20 | 0.50 | 1.70 | 2.00 | 100.0     | 18         | 92           | U          |              |

NL0009R Kollumerwaard Netherlands

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.37         | 1.28       | 0.91         | 2.58       | 0.07  | 0.19 | 0.93 | 3.79 | 6.25  | 100.0     | 0          | 91           | A          |              |
| NO3-      | 0.88         | 0.78       | 0.66         | 2.23       | 0.00  | 0.17 | 0.62 | 2.55 | 3.69  | 100.0     | 2          | 91           | A          |              |
| NO2       | 4.18         | 2.45       | 3.49         | 1.92       | 0.30  | 0.92 | 3.81 | 8.76 | 13.42 | 91.2      | 0          | 83           | C          |              |
| SO4--     | 0.84         | 0.74       | 0.62         | 2.28       | 0.00  | 0.17 | 0.55 | 2.35 | 3.54  | 100.0     | 2          | 91           | A          |              |
| SO2       | 0.64         | 0.59       | 0.79         | 1.56       | -0.50 | 0.00 | 0.50 | 1.50 | 2.50  | 100.0     | 21         | 91           | U          |              |

NL0010R Vreedepeel Netherlands

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.51         | 1.30       | 1.06         | 2.61       | -0.10 | 0.09 | 1.20 | 3.96  | 6.40  | 100.0     | 3          | 90           | A          |              |
| NO3-      | 0.97         | 0.78       | 0.74         | 2.22       | 0.00  | 0.20 | 0.80 | 2.30  | 4.60  | 100.0     | 1          | 90           | A          |              |
| NO2       | 8.63         | 4.22       | 7.48         | 1.78       | 1.80  | 2.10 | 8.06 | 15.19 | 20.10 | 90.0      | 0          | 81           | C          |              |
| SO4--     | 0.89         | 0.73       | 0.63         | 2.46       | 0.10  | 0.10 | 0.60 | 2.22  | 3.23  | 100.0     | 0          | 90           | A          |              |
| SO2       | 1.81         | 1.21       | 1.48         | 1.94       | 0.00  | 0.50 | 1.50 | 4.51  | 5.51  | 100.0     | 1          | 90           | U          |              |

NL0010R Vreedepeel Netherlands

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.91         | 0.95       | 1.68         | 1.69       | 0.20 | 0.70 | 1.70 | 3.78  | 5.00  | 100.0     | 0          | 92           | A          |              |
| NO3-      | 1.26         | 0.64       | 1.10         | 1.73       | 0.20 | 0.42 | 1.00 | 2.54  | 3.10  | 100.0     | 0          | 92           | A          |              |
| NO2       | 7.28         | 3.13       | 6.68         | 1.52       | 2.70 | 3.55 | 6.40 | 12.95 | 16.20 | 97.8      | 0          | 90           | C          |              |
| SO4--     | 1.09         | 0.56       | 0.96         | 1.68       | 0.20 | 0.40 | 0.90 | 2.30  | 2.90  | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.62         | 1.29       | 1.33         | 1.97       | 0.00 | 0.00 | 1.50 | 4.50  | 5.50  | 100.0     | 5          | 92           | U          |              |

NL0010R Vreedepeel Netherlands

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.49         | 0.97       | 1.08         | 2.58       | 0.10 | 0.10 | 1.35 | 3.35  | 3.90  | 98.9      | 0          | 91           | A          |              |
| NO3-      | 0.82         | 0.61       | 0.76         | 1.95       | 0.00 | 0.00 | 0.70 | 1.85  | 2.90  | 98.9      | 9          | 91           | A          |              |
| NO2       | 6.11         | 2.53       | 5.62         | 1.52       | 1.50 | 2.70 | 5.80 | 10.70 | 14.60 | 64.1      | 0          | 59           | C          |              |
| SO4--     | 0.83         | 0.58       | 0.72         | 2.15       | 0.00 | 0.00 | 0.80 | 2.00  | 2.60  | 98.9      | 7          | 91           | A          |              |
| SO2       | 1.35         | 0.95       | 1.17         | 1.82       | 0.00 | 0.00 | 1.00 | 3.00  | 5.00  | 100.0     | 5          | 92           | U          |              |

NL0010R Vreedepeel Netherlands

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.80         | 1.75       | 1.24         | 2.38       | 0.10  | 0.30 | 1.20 | 5.05  | 11.00 | 100.0     | 0          | 91           | A          |              |
| NO3-      | 1.04         | 0.99       | 0.75         | 2.25       | 0.00  | 0.20 | 0.70 | 2.90  | 5.80  | 100.0     | 1          | 91           | A          |              |
| NO2       | 8.03         | 3.31       | 7.31         | 1.58       | 2.40  | 2.91 | 7.60 | 14.21 | 15.90 | 94.5      | 0          | 86           | C          |              |
| SO4--     | 1.06         | 1.04       | 0.75         | 2.37       | 0.00  | 0.16 | 0.70 | 2.94  | 6.80  | 100.0     | 1          | 91           | A          |              |
| SO2       | 1.46         | 1.54       | 1.17         | 2.06       | -0.50 | 0.00 | 1.00 | 4.22  | 9.00  | 100.0     | 9          | 91           | U          |              |

NO0001R Birkenes Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.03       | 0.01         | 2.70       | 0.00 | 0.00 | 0.01 | 0.07 | 0.12 | 100.0     | 37         | 90           |            |              |
| Cl-       | 0.61         | 0.94       | 0.12         | 8.41       | 0.01 | 0.01 | 0.15 | 2.78 | 5.01 | 100.0     | 30         | 90           |            |              |
| Mg++      | 0.06         | 0.07       | 0.03         | 3.88       | 0.00 | 0.00 | 0.03 | 0.22 | 0.35 | 100.0     | 28         | 90           |            |              |
| NO2       | 0.68         | 0.66       | 0.44         | 2.66       | 0.05 | 0.09 | 0.45 | 1.67 | 3.50 | 100.0     | 0          | 90           | A          |              |
| K+        | 0.04         | 0.05       | 0.03         | 2.87       | 0.00 | 0.00 | 0.03 | 0.10 | 0.37 | 100.0     | 17         | 90           |            |              |
| Na+       | 0.49         | 0.59       | 0.20         | 4.90       | 0.00 | 0.01 | 0.28 | 1.86 | 2.91 | 100.0     | 4          | 90           |            |              |
| SO4--     | 0.41         | 0.51       | 0.22         | 3.09       | 0.02 | 0.03 | 0.21 | 1.48 | 2.92 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.12         | 0.23       | 0.05         | 3.65       | 0.01 | 0.01 | 0.04 | 0.47 | 1.42 | 100.0     | 11         | 90           | A          |              |
| NH3+NH4+  | 0.28         | 0.44       | 0.13         | 3.18       | 0.02 | 0.03 | 0.12 | 1.39 | 2.00 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.19         | 0.28       | 0.10         | 3.03       | 0.01 | 0.02 | 0.09 | 0.82 | 1.39 | 100.0     | 0          | 90           | A          |              |

NO0001R Birkenes Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.04         | 0.05       | 0.02         | 3.11       | 0.00 | 0.00 | 0.02 | 0.12 | 0.30 | 100.0     | 26         | 92           |            |              |
| Cl-       | 0.26         | 0.58       | 0.05         | 6.29       | 0.01 | 0.01 | 0.02 | 0.84 | 4.12 | 100.0     | 45         | 92           |            |              |
| Mg++      | 0.04         | 0.05       | 0.02         | 3.06       | 0.00 | 0.00 | 0.02 | 0.11 | 0.34 | 100.0     | 26         | 92           |            |              |
| NO2       | 0.53         | 0.42       | 0.40         | 2.16       | 0.07 | 0.10 | 0.39 | 1.41 | 1.97 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.03         | 0.03       | 0.02         | 2.74       | 0.00 | 0.00 | 0.02 | 0.08 | 0.17 | 100.0     | 27         | 92           |            |              |
| Na+       | 0.29         | 0.40       | 0.14         | 4.13       | 0.00 | 0.00 | 0.15 | 0.85 | 2.71 | 100.0     | 7          | 92           |            |              |
| SO4--     | 0.55         | 0.48       | 0.37         | 2.62       | 0.03 | 0.06 | 0.40 | 1.58 | 2.05 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.19         | 0.20       | 0.10         | 3.51       | 0.01 | 0.01 | 0.11 | 0.61 | 0.96 | 100.0     | 10         | 92           | A          |              |
| NH3+NH4+  | 0.55         | 0.60       | 0.37         | 2.45       | 0.07 | 0.09 | 0.39 | 1.86 | 3.42 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.22         | 0.35       | 0.13         | 2.70       | 0.02 | 0.02 | 0.12 | 0.89 | 2.70 | 100.0     | 0          | 92           | A          |              |

NO0001R Birkenes Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.04         | 0.06       | 0.03         | 2.70       | 0.00 | 0.00 | 0.03 | 0.12 | 0.41 | 100.0     | 11         | 92           |            |              |
| Cl-       | 0.16         | 0.19       | 0.07         | 4.24       | 0.01 | 0.01 | 0.06 | 0.52 | 0.95 | 100.0     | 24         | 92           |            |              |
| Mg++      | 0.03         | 0.03       | 0.02         | 2.61       | 0.00 | 0.00 | 0.03 | 0.08 | 0.11 | 100.0     | 16         | 92           |            |              |
| NO2       | 0.39         | 0.18       | 0.36         | 1.56       | 0.11 | 0.16 | 0.38 | 0.70 | 1.06 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.05         | 0.04       | 0.04         | 2.30       | 0.00 | 0.00 | 0.04 | 0.12 | 0.19 | 100.0     | 7          | 92           |            |              |
| Na+       | 0.25         | 0.20       | 0.17         | 2.84       | 0.00 | 0.03 | 0.17 | 0.58 | 0.86 | 100.0     | 2          | 92           |            |              |
| SO4--     | 0.57         | 0.50       | 0.41         | 2.31       | 0.08 | 0.10 | 0.45 | 1.63 | 2.38 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.13         | 0.12       | 0.08         | 2.80       | 0.01 | 0.01 | 0.10 | 0.38 | 0.61 | 98.9      | 7          | 91           | A          |              |
| NH3+NH4+  | 0.75         | 0.62       | 0.55         | 2.24       | 0.06 | 0.13 | 0.59 | 1.79 | 3.62 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.19         | 0.15       | 0.14         | 2.16       | 0.02 | 0.04 | 0.15 | 0.50 | 0.85 | 98.9      | 0          | 91           | A          |              |

NO0001R Birkenes Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.05         | 0.06       | 0.02         | 4.01       | 0.00 | 0.00 | 0.01 | 0.17 | 0.29 | 100.0     | 42         | 91           |            |              |
| Cl-       | 0.63         | 1.02       | 0.12         | 8.00       | 0.01 | 0.01 | 0.15 | 2.79 | 5.26 | 100.0     | 27         | 91           |            |              |
| Mg++      | 0.06         | 0.08       | 0.02         | 4.11       | 0.00 | 0.00 | 0.02 | 0.24 | 0.38 | 100.0     | 32         | 91           |            |              |
| NO2       | 0.58         | 0.43       | 0.46         | 1.97       | 0.07 | 0.15 | 0.48 | 1.74 | 2.00 | 100.0     | 0          | 91           | A          |              |
| K+        | 0.06         | 0.07       | 0.03         | 3.66       | 0.00 | 0.00 | 0.03 | 0.19 | 0.31 | 100.0     | 23         | 91           |            |              |
| Na+       | 0.51         | 0.71       | 0.18         | 5.23       | 0.00 | 0.00 | 0.19 | 2.05 | 3.28 | 100.0     | 5          | 91           |            |              |
| SO4--     | 0.52         | 0.52       | 0.29         | 3.19       | 0.03 | 0.04 | 0.29 | 1.58 | 2.22 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.13         | 0.17       | 0.06         | 3.80       | 0.01 | 0.01 | 0.06 | 0.55 | 0.79 | 100.0     | 23         | 91           | A          |              |
| NH3+NH4+  | 0.53         | 0.68       | 0.25         | 3.55       | 0.03 | 0.03 | 0.22 | 1.92 | 3.54 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.24         | 0.34       | 0.12         | 3.30       | 0.02 | 0.02 | 0.09 | 0.87 | 1.87 | 100.0     | 0          | 91           | A          |              |

NO0008R Skre Aadalen Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.03         | 0.03       | 0.01         | 2.84       | 0.00 | 0.00 | 0.02 | 0.09 | 0.10 | 91.1      | 33         | 82           |            |              |
| Cl-       | 0.84         | 1.16       | 0.20         | 8.02       | 0.01 | 0.01 | 0.31 | 3.71 | 4.58 | 91.1      | 17         | 82           |            |              |
| Mg++      | 0.06         | 0.07       | 0.03         | 3.88       | 0.00 | 0.00 | 0.03 | 0.24 | 0.29 | 91.1      | 25         | 82           |            |              |
| NO2       | 0.55         | 0.72       | 0.38         | 2.22       | 0.06 | 0.11 | 0.36 | 1.38 | 6.11 | 100.0     | 0          | 90           | A          |              |
| K+        | 0.03         | 0.02       | 0.02         | 2.46       | 0.00 | 0.00 | 0.02 | 0.08 | 0.11 | 91.1      | 17         | 82           |            |              |
| Na+       | 0.52         | 0.64       | 0.20         | 4.87       | 0.00 | 0.01 | 0.28 | 2.10 | 2.49 | 91.1      | 2          | 82           |            |              |
| SO4--     | 0.26         | 0.28       | 0.15         | 3.27       | 0.00 | 0.02 | 0.15 | 0.84 | 1.40 | 97.8      | 1          | 88           | A          |              |
| SO2       | 0.13         | 0.27       | 0.05         | 3.86       | 0.01 | 0.01 | 0.04 | 0.87 | 1.34 | 97.8      | 20         | 88           | A          |              |
| NH3+NH4+  | 0.69         | 0.32       | 0.60         | 1.75       | 0.10 | 0.20 | 0.69 | 1.25 | 1.43 | 98.9      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.11         | 0.14       | 0.08         | 2.37       | 0.01 | 0.02 | 0.07 | 0.37 | 0.82 | 95.6      | 0          | 86           | A          |              |

NO0008R Skreaadalen Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.06         | 0.06       | 0.04         | 3.01       | 0.00 | 0.00 | 0.04 | 0.20 | 0.25 | 92.4      | 10         | 85           |            |              |
| Cl-       | 0.37         | 0.70       | 0.09         | 6.01       | 0.01 | 0.01 | 0.05 | 1.33 | 4.63 | 91.3      | 19         | 84           |            |              |
| Mg++      | 0.03         | 0.04       | 0.02         | 2.94       | 0.00 | 0.00 | 0.02 | 0.10 | 0.28 | 92.4      | 24         | 85           |            |              |
| NO2       | 0.43         | 0.24       | 0.39         | 1.47       | 0.20 | 0.24 | 0.36 | 0.68 | 2.13 | 89.1      | 0          | 82           | A          |              |
| K+        | 0.02         | 0.02       | 0.02         | 2.27       | 0.00 | 0.00 | 0.02 | 0.06 | 0.09 | 92.4      | 18         | 85           |            |              |
| Na+       | 0.26         | 0.36       | 0.12         | 4.23       | 0.00 | 0.00 | 0.12 | 0.85 | 2.26 | 92.4      | 7          | 85           |            |              |
| SO4--     | 0.43         | 0.38       | 0.29         | 2.46       | 0.03 | 0.06 | 0.26 | 1.19 | 1.56 | 91.3      | 0          | 84           | A          |              |
| SO2       | 0.13         | 0.17       | 0.06         | 3.63       | 0.01 | 0.01 | 0.05 | 0.51 | 0.70 | 91.3      | 19         | 84           | A          |              |
| NH3+NH4+  | 1.54         | 1.36       | 1.14         | 2.22       | 0.13 | 0.27 | 1.29 | 3.82 | 9.55 | 91.3      | 0          | 84           | A          |              |
| HNO3+NO3  | 0.20         | 0.22       | 0.12         | 2.60       | 0.02 | 0.02 | 0.13 | 0.58 | 1.47 | 91.3      | 0          | 84           | A          |              |

NO0008R Skreaadalen Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.03         | 0.03       | 0.02         | 2.62       | 0.00 | 0.00 | 0.02 | 0.08 | 0.20 | 95.7      | 20         | 88           |            |              |
| Cl-       | 0.19         | 0.29       | 0.06         | 4.86       | 0.01 | 0.01 | 0.05 | 0.80 | 1.30 | 82.6      | 22         | 76           |            |              |
| Mg++      | 0.02         | 0.02       | 0.01         | 2.66       | 0.00 | 0.00 | 0.01 | 0.06 | 0.10 | 95.7      | 40         | 88           |            |              |
| NO2       | 0.38         | 0.19       | 0.34         | 1.61       | 0.06 | 0.15 | 0.34 | 0.65 | 1.17 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.02         | 0.01       | 0.02         | 2.37       | 0.00 | 0.00 | 0.02 | 0.05 | 0.06 | 95.7      | 28         | 88           |            |              |
| Na+       | 0.17         | 0.18       | 0.07         | 4.82       | 0.00 | 0.00 | 0.10 | 0.47 | 0.72 | 95.7      | 17         | 88           |            |              |
| SO4--     | 0.43         | 0.33       | 0.31         | 2.46       | 0.00 | 0.08 | 0.34 | 1.04 | 1.86 | 82.6      | 1          | 76           | A          |              |
| SO2       | 0.04         | 0.05       | 0.03         | 2.54       | 0.01 | 0.01 | 0.02 | 0.13 | 0.36 | 82.6      | 29         | 76           | A          |              |
| NH3+NH4+  | 1.47         | 0.72       | 1.27         | 1.83       | 0.11 | 0.44 | 1.33 | 2.63 | 3.13 | 80.4      | 0          | 74           | A          |              |
| HNO3+NO3  | 0.13         | 0.10       | 0.10         | 2.09       | 0.01 | 0.03 | 0.11 | 0.33 | 0.51 | 82.6      | 0          | 76           | A          |              |

NO0008R Skreaadalen Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.04         | 0.05       | 0.01         | 3.58       | 0.00 | 0.00 | 0.01 | 0.14 | 0.25 | 87.9      | 39         | 80           |            |              |
| Cl-       | 0.50         | 0.97       | 0.10         | 6.65       | 0.01 | 0.01 | 0.08 | 2.43 | 4.25 | 34.1      | 8          | 31           |            |              |
| Mg++      | 0.04         | 0.07       | 0.01         | 3.82       | 0.00 | 0.00 | 0.00 | 0.20 | 0.34 | 87.9      | 47         | 80           |            |              |
| NO2       | 0.37         | 0.19       | 0.33         | 1.60       | 0.05 | 0.18 | 0.32 | 0.74 | 1.38 | 100.0     | 0          | 91           | A          |              |
| K+        | 0.04         | 0.04       | 0.02         | 3.45       | 0.00 | 0.00 | 0.01 | 0.13 | 0.17 | 87.9      | 33         | 80           |            |              |
| Na+       | 0.34         | 0.64       | 0.05         | 9.10       | 0.00 | 0.00 | 0.03 | 1.85 | 3.22 | 87.9      | 33         | 80           |            |              |
| SO4--     | 0.52         | 0.70       | 0.26         | 3.40       | 0.02 | 0.03 | 0.25 | 1.91 | 3.17 | 34.1      | 0          | 31           | A          |              |
| SO2       | 0.12         | 0.14       | 0.06         | 3.12       | 0.01 | 0.01 | 0.04 | 0.39 | 0.51 | 34.1      | 4          | 31           | A          |              |
| NH3+NH4+  | 0.88         | 1.04       | 0.57         | 2.59       | 0.07 | 0.08 | 0.56 | 2.62 | 5.38 | 34.1      | 0          | 31           | A          |              |
| HNO3+NO3  | 0.25         | 0.53       | 0.09         | 3.78       | 0.01 | 0.01 | 0.08 | 0.77 | 2.82 | 34.1      | 0          | 31           | A          |              |

NO0015R Tustervatn Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.01       | 0.01         | 2.18       | 0.00 | 0.00 | 0.00 | 0.04 | 0.08 | 100.0     | 55         | 90           |            |              |
| Cl-       | 0.36         | 0.72       | 0.06         | 6.88       | 0.01 | 0.01 | 0.04 | 2.02 | 4.02 | 100.0     | 36         | 90           |            |              |
| Mg++      | 0.03         | 0.05       | 0.01         | 3.18       | 0.00 | 0.00 | 0.00 | 0.12 | 0.27 | 100.0     | 52         | 90           |            |              |
| NO2       | 0.15         | 0.10       | 0.12         | 1.97       | 0.01 | 0.04 | 0.12 | 0.34 | 0.60 | 100.0     | 2          | 90           | A          |              |
| K+        | 0.01         | 0.02       | 0.01         | 2.23       | 0.00 | 0.00 | 0.01 | 0.04 | 0.13 | 100.0     | 43         | 90           |            |              |
| Na+       | 0.24         | 0.40       | 0.09         | 3.93       | 0.00 | 0.01 | 0.08 | 1.09 | 2.31 | 100.0     | 2          | 90           |            |              |
| SO4--     | 0.19         | 0.17       | 0.14         | 2.43       | 0.00 | 0.02 | 0.15 | 0.43 | 1.16 | 90.0      | 1          | 81           | A          |              |
| SO2       | 0.13         | 0.23       | 0.04         | 4.22       | 0.01 | 0.01 | 0.05 | 0.79 | 0.98 | 88.9      | 33         | 80           | A          |              |
| NH3+NH4+  | 0.48         | 0.52       | 0.31         | 2.54       | 0.04 | 0.06 | 0.27 | 1.73 | 2.09 | 90.0      | 0          | 81           | A          |              |
| HNO3+NO3  | 0.05         | 0.04       | 0.04         | 1.81       | 0.01 | 0.02 | 0.04 | 0.13 | 0.23 | 88.9      | 0          | 80           | A          |              |

NO0015R Tustervatn Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.03       | 0.01         | 2.59       | 0.00 | 0.00 | 0.01 | 0.06 | 0.18 | 100.0     | 34         | 92           |            |              |
| Cl-       | 0.30         | 0.56       | 0.06         | 6.27       | 0.01 | 0.01 | 0.04 | 1.46 | 3.07 | 100.0     | 36         | 92           |            |              |
| Mg++      | 0.03         | 0.04       | 0.01         | 2.96       | 0.00 | 0.00 | 0.01 | 0.10 | 0.22 | 100.0     | 43         | 92           |            |              |
| NO2       | 0.11         | 0.05       | 0.10         | 1.54       | 0.04 | 0.05 | 0.10 | 0.19 | 0.35 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.02         | 0.01       | 0.01         | 2.22       | 0.00 | 0.00 | 0.01 | 0.05 | 0.07 | 100.0     | 38         | 92           |            |              |
| Na+       | 0.21         | 0.32       | 0.08         | 4.37       | 0.00 | 0.00 | 0.08 | 0.84 | 1.87 | 100.0     | 7          | 92           |            |              |
| SO4--     | 0.32         | 0.27       | 0.22         | 2.51       | 0.02 | 0.04 | 0.21 | 0.87 | 1.19 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.16         | 0.30       | 0.05         | 4.16       | 0.01 | 0.01 | 0.04 | 0.97 | 1.38 | 100.0     | 24         | 92           | A          |              |
| NH3+NH4+  | 1.17         | 1.18       | 0.79         | 2.42       | 0.18 | 0.22 | 0.76 | 3.30 | 6.57 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.05         | 0.03       | 0.04         | 1.68       | 0.01 | 0.02 | 0.04 | 0.09 | 0.17 | 100.0     | 0          | 92           | A          |              |

NO0015R Tustervatn Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.03         | 0.03       | 0.02         | 2.59       | 0.00 | 0.00 | 0.02 | 0.09 | 0.26  | 100.0     | 25         | 92           |            |              |
| Cl-       | 0.20         | 0.28       | 0.08         | 4.79       | 0.01 | 0.01 | 0.09 | 0.81 | 1.64  | 100.0     | 25         | 92           |            |              |
| Mg++      | 0.02         | 0.02       | 0.01         | 2.48       | 0.00 | 0.00 | 0.01 | 0.06 | 0.13  | 100.0     | 35         | 92           |            |              |
| NO2       | 0.13         | 0.07       | 0.12         | 1.58       | 0.04 | 0.05 | 0.12 | 0.21 | 0.50  | 91.3      | 0          | 84           | A          |              |
| K+        | 0.02         | 0.02       | 0.01         | 2.26       | 0.00 | 0.00 | 0.01 | 0.06 | 0.10  | 100.0     | 27         | 92           |            |              |
| Na+       | 0.16         | 0.18       | 0.09         | 3.23       | 0.00 | 0.01 | 0.10 | 0.50 | 1.05  | 100.0     | 3          | 92           |            |              |
| SO4--     | 0.20         | 0.29       | 0.12         | 2.47       | 0.00 | 0.04 | 0.10 | 0.69 | 2.29  | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.03         | 0.03       | 0.02         | 2.15       | 0.01 | 0.01 | 0.02 | 0.06 | 0.18  | 100.0     | 44         | 92           | A          |              |
| NH3+NH4+  | 1.72         | 1.69       | 1.25         | 2.25       | 0.06 | 0.33 | 1.26 | 4.46 | 12.76 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.06         | 0.07       | 0.04         | 1.94       | 0.02 | 0.02 | 0.04 | 0.15 | 0.47  | 100.0     | 0          | 92           | A          |              |

NO0015R Tustervatn Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.03       | 0.01         | 2.78       | 0.00 | 0.00 | 0.00 | 0.09 | 0.18 | 100.0     | 54         | 91           |            |              |
| Cl-       | 0.35         | 0.65       | 0.07         | 7.19       | 0.01 | 0.01 | 0.05 | 1.35 | 4.33 | 100.0     | 41         | 91           |            |              |
| Mg++      | 0.03         | 0.04       | 0.01         | 2.94       | 0.00 | 0.00 | 0.01 | 0.08 | 0.29 | 100.0     | 41         | 91           |            |              |
| NO2       | 0.17         | 0.10       | 0.14         | 1.92       | 0.01 | 0.04 | 0.14 | 0.36 | 0.58 | 100.0     | 2          | 91           | A          |              |
| K+        | 0.02         | 0.03       | 0.01         | 2.60       | 0.00 | 0.00 | 0.01 | 0.08 | 0.13 | 100.0     | 37         | 91           |            |              |
| Na+       | 0.23         | 0.38       | 0.07         | 5.95       | 0.00 | 0.00 | 0.10 | 0.73 | 2.58 | 100.0     | 20         | 91           |            |              |
| SO4--     | 0.22         | 0.29       | 0.10         | 3.75       | 0.00 | 0.00 | 0.08 | 0.95 | 1.31 | 100.0     | 5          | 91           | A          |              |
| SO2       | 0.03         | 0.06       | 0.02         | 2.34       | 0.01 | 0.01 | 0.01 | 0.09 | 0.38 | 100.0     | 64         | 91           | A          |              |
| NH3+NH4+  | 0.66         | 0.49       | 0.49         | 2.36       | 0.03 | 0.10 | 0.54 | 1.55 | 2.41 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.06         | 0.05       | 0.04         | 1.99       | 0.02 | 0.02 | 0.04 | 0.14 | 0.23 | 100.0     | 0          | 91           | A          |              |

NO0039R Kaarvatn Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.02       | 0.01         | 2.34       | 0.00 | 0.00 | 0.00 | 0.05 | 0.11 | 97.8      | 57         | 88           |            |              |
| Cl-       | 0.18         | 0.44       | 0.04         | 5.01       | 0.00 | 0.01 | 0.03 | 0.92 | 3.10 | 97.8      | 41         | 88           |            |              |
| Mg++      | 0.01         | 0.03       | 0.01         | 2.39       | 0.00 | 0.00 | 0.00 | 0.06 | 0.22 | 97.8      | 62         | 88           |            |              |
| NO2       | 0.29         | 0.31       | 0.21         | 2.01       | 0.05 | 0.08 | 0.19 | 0.74 | 2.51 | 100.0     | 0          | 90           | A          |              |
| K+        | 0.01         | 0.01       | 0.01         | 1.80       | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 97.8      | 68         | 88           |            |              |
| Na+       | 0.13         | 0.26       | 0.05         | 3.61       | 0.00 | 0.00 | 0.05 | 0.55 | 1.92 | 97.8      | 6          | 88           |            |              |
| SO4--     | 0.09         | 0.08       | 0.05         | 2.72       | 0.00 | 0.01 | 0.06 | 0.27 | 0.31 | 97.8      | 1          | 88           | A          |              |
| SO2       | 0.03         | 0.04       | 0.02         | 2.42       | 0.01 | 0.01 | 0.02 | 0.14 | 0.25 | 94.4      | 25         | 85           | A          |              |
| NH3+NH4+  | 0.17         | 0.11       | 0.14         | 1.96       | 0.03 | 0.03 | 0.14 | 0.32 | 0.77 | 97.8      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.03         | 0.02       | 0.03         | 1.55       | 0.01 | 0.02 | 0.03 | 0.07 | 0.09 | 93.3      | 0          | 84           | A          |              |

NO0039R                      Kaarvatn                      Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.02       | 0.01         | 2.52       | 0.00 | 0.00 | 0.01 | 0.06 | 0.13 | 100.0     | 31         | 92           |            |              |
| Cl-       | 0.10         | 0.17       | 0.03         | 4.50       | 0.01 | 0.01 | 0.01 | 0.49 | 0.74 | 100.0     | 54         | 92           |            |              |
| Mg++      | 0.01         | 0.01       | 0.01         | 2.33       | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 | 100.0     | 56         | 92           |            |              |
| NO2       | 0.19         | 0.12       | 0.17         | 1.63       | 0.07 | 0.09 | 0.16 | 0.38 | 0.67 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.01         | 0.01       | 0.01         | 2.12       | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 100.0     | 53         | 92           |            |              |
| Na+       | 0.11         | 0.13       | 0.05         | 3.71       | 0.00 | 0.00 | 0.04 | 0.41 | 0.63 | 100.0     | 9          | 92           |            |              |
| SO4--     | 0.23         | 0.21       | 0.15         | 2.76       | 0.00 | 0.02 | 0.15 | 0.68 | 0.91 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.05         | 0.08       | 0.03         | 2.93       | 0.01 | 0.01 | 0.02 | 0.22 | 0.47 | 100.0     | 42         | 92           | A          |              |
| NH3+NH4+  | 0.31         | 0.22       | 0.25         | 2.03       | 0.03 | 0.09 | 0.23 | 0.67 | 1.32 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.05         | 0.05       | 0.04         | 1.89       | 0.02 | 0.02 | 0.04 | 0.14 | 0.25 | 100.0     | 0          | 92           | A          |              |

NO0039R                      Kaarvatn                      Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.03         | 0.06       | 0.02         | 2.71       | 0.00 | 0.00 | 0.01 | 0.10 | 0.49 | 97.8      | 26         | 90           |            |              |
| Cl-       | 0.13         | 0.17       | 0.05         | 4.02       | 0.01 | 0.01 | 0.05 | 0.47 | 0.96 | 97.8      | 27         | 90           |            |              |
| Mg++      | 0.02         | 0.02       | 0.01         | 2.34       | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 97.8      | 30         | 90           |            |              |
| NO2       | 0.18         | 0.14       | 0.16         | 1.71       | 0.04 | 0.07 | 0.15 | 0.30 | 1.29 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.03         | 0.02       | 0.02         | 2.10       | 0.00 | 0.00 | 0.02 | 0.06 | 0.11 | 97.8      | 11         | 90           |            |              |
| Na+       | 0.14         | 0.13       | 0.10         | 2.62       | 0.01 | 0.02 | 0.11 | 0.35 | 0.90 | 97.8      | 0          | 90           |            |              |
| SO4--     | 0.23         | 0.21       | 0.18         | 2.00       | 0.03 | 0.05 | 0.15 | 0.61 | 1.17 | 97.8      | 0          | 90           | A          |              |
| SO2       | 0.02         | 0.02       | 0.02         | 1.92       | 0.00 | 0.01 | 0.01 | 0.05 | 0.10 | 97.8      | 57         | 90           | A          |              |
| NH3+NH4+  | 0.79         | 0.72       | 0.58         | 2.21       | 0.08 | 0.12 | 0.59 | 1.95 | 5.35 | 97.8      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.06         | 0.04       | 0.05         | 1.71       | 0.02 | 0.03 | 0.05 | 0.16 | 0.19 | 97.8      | 0          | 90           | A          |              |

NO0039R                      Kaarvatn                      Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.03       | 0.01         | 2.51       | 0.00 | 0.00 | 0.00 | 0.07 | 0.16 | 100.0     | 71         | 91           |            |              |
| Cl-       | 0.13         | 0.28       | 0.03         | 4.66       | 0.01 | 0.01 | 0.01 | 0.58 | 1.94 | 100.0     | 46         | 91           |            |              |
| Mg++      | 0.01         | 0.01       | 0.01         | 2.10       | 0.00 | 0.00 | 0.00 | 0.03 | 0.11 | 100.0     | 66         | 91           |            |              |
| NO2       | 0.25         | 0.12       | 0.23         | 1.61       | 0.07 | 0.11 | 0.22 | 0.52 | 0.65 | 100.0     | 0          | 91           | A          |              |
| K+        | 0.02         | 0.03       | 0.01         | 2.56       | 0.00 | 0.00 | 0.01 | 0.07 | 0.17 | 100.0     | 38         | 91           |            |              |
| Na+       | 0.09         | 0.15       | 0.04         | 4.21       | 0.00 | 0.00 | 0.03 | 0.33 | 0.97 | 100.0     | 18         | 91           |            |              |
| SO4--     | 0.23         | 0.39       | 0.09         | 3.90       | 0.00 | 0.01 | 0.07 | 1.09 | 1.97 | 100.0     | 3          | 91           | A          |              |
| SO2       | 0.02         | 0.02       | 0.01         | 1.83       | 0.01 | 0.01 | 0.01 | 0.05 | 0.14 | 100.0     | 74         | 91           | A          |              |
| NH3+NH4+  | 0.54         | 0.72       | 0.29         | 3.03       | 0.03 | 0.04 | 0.25 | 1.75 | 4.27 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.04         | 0.05       | 0.03         | 1.92       | 0.02 | 0.02 | 0.03 | 0.13 | 0.29 | 100.0     | 0          | 91           | A          |              |

NO0041R                      Osen                      Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.01       | 0.01         | 1.92       | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 100.0     | 63         | 90           |            |              |
| Cl-       | 0.09         | 0.20       | 0.02         | 3.92       | 0.01 | 0.01 | 0.01 | 0.50 | 1.23 | 100.0     | 57         | 90           |            |              |
| Mg++      | 0.01         | 0.02       | 0.01         | 2.17       | 0.00 | 0.00 | 0.00 | 0.05 | 0.13 | 100.0     | 66         | 90           |            |              |
| NO2       | 0.61         | 0.42       | 0.46         | 2.26       | 0.01 | 0.11 | 0.47 | 1.39 | 1.95 | 97.8      | 1          | 88           | A          |              |
| K+        | 0.03         | 0.03       | 0.02         | 2.45       | 0.00 | 0.00 | 0.02 | 0.05 | 0.24 | 100.0     | 21         | 90           |            |              |
| Na+       | 0.10         | 0.16       | 0.05         | 3.44       | 0.00 | 0.00 | 0.05 | 0.38 | 1.15 | 100.0     | 8          | 90           |            |              |
| SO4--     | 0.23         | 0.28       | 0.12         | 3.32       | 0.01 | 0.01 | 0.15 | 0.94 | 1.48 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.06         | 0.10       | 0.03         | 2.93       | 0.01 | 0.01 | 0.03 | 0.22 | 0.58 | 100.0     | 22         | 90           | A          |              |
| NH3+NH4+  | 0.19         | 0.19       | 0.13         | 2.46       | 0.02 | 0.03 | 0.14 | 0.64 | 0.98 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.10         | 0.09       | 0.07         | 2.23       | 0.01 | 0.02 | 0.06 | 0.29 | 0.56 | 100.0     | 0          | 90           | A          |              |

NO0041R Osen Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.03       | 0.01         | 2.71       | 0.00 | 0.00 | 0.01 | 0.10 | 0.18 | 100.0     | 34         | 92           |            |              |
| Cl-       | 0.05         | 0.14       | 0.02         | 3.18       | 0.01 | 0.01 | 0.01 | 0.29 | 0.87 | 100.0     | 65         | 92           |            |              |
| Mg++      | 0.01         | 0.01       | 0.01         | 2.08       | 0.00 | 0.00 | 0.00 | 0.03 | 0.09 | 100.0     | 63         | 92           |            |              |
| NO2       | 0.38         | 0.31       | 0.29         | 2.11       | 0.03 | 0.09 | 0.28 | 1.23 | 1.52 | 83.7      | 0          | 77           | A          |              |
| K+        | 0.02         | 0.02       | 0.01         | 2.32       | 0.00 | 0.00 | 0.02 | 0.05 | 0.08 | 100.0     | 32         | 92           |            |              |
| Na+       | 0.08         | 0.12       | 0.04         | 3.15       | 0.00 | 0.00 | 0.04 | 0.27 | 0.74 | 100.0     | 9          | 92           |            |              |
| SO4--     | 0.40         | 0.35       | 0.25         | 3.04       | 0.00 | 0.03 | 0.25 | 1.17 | 1.45 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.10         | 0.14       | 0.04         | 3.39       | 0.01 | 0.01 | 0.04 | 0.44 | 0.59 | 100.0     | 21         | 92           | A          |              |
| NH3+NH4+  | 0.36         | 0.26       | 0.29         | 1.92       | 0.03 | 0.13 | 0.26 | 0.76 | 1.57 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.10         | 0.12       | 0.06         | 2.27       | 0.02 | 0.02 | 0.07 | 0.31 | 0.87 | 100.0     | 0          | 92           | A          |              |

NO0041R Osen Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.02       | 0.01         | 2.39       | 0.00 | 0.00 | 0.01 | 0.05 | 0.10 | 96.7      | 33         | 89           |            |              |
| Cl-       | 0.02         | 0.03       | 0.01         | 2.02       | 0.01 | 0.01 | 0.01 | 0.08 | 0.15 | 96.7      | 65         | 89           |            |              |
| Mg++      | 0.01         | 0.00       | 0.01         | 1.60       | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 96.7      | 68         | 89           |            |              |
| NO2       | 0.19         | 0.10       | 0.16         | 1.90       | 0.01 | 0.06 | 0.19 | 0.36 | 0.73 | 98.9      | 3          | 91           | A          |              |
| K+        | 0.03         | 0.03       | 0.02         | 2.59       | 0.00 | 0.00 | 0.03 | 0.09 | 0.21 | 96.7      | 17         | 89           |            |              |
| Na+       | 0.07         | 0.06       | 0.04         | 2.88       | 0.00 | 0.00 | 0.05 | 0.18 | 0.31 | 96.7      | 7          | 89           |            |              |
| SO4--     | 0.30         | 0.34       | 0.18         | 2.88       | 0.01 | 0.04 | 0.16 | 0.97 | 1.80 | 96.7      | 0          | 89           | A          |              |
| SO2       | 0.03         | 0.03       | 0.02         | 2.20       | 0.01 | 0.01 | 0.02 | 0.08 | 0.11 | 96.7      | 41         | 89           | A          |              |
| NH3+NH4+  | 0.40         | 0.42       | 0.30         | 2.06       | 0.04 | 0.10 | 0.28 | 1.06 | 3.19 | 96.7      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.07         | 0.06       | 0.05         | 2.07       | 0.02 | 0.02 | 0.05 | 0.18 | 0.31 | 96.7      | 0          | 89           | A          |              |

NO0041R Osen Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.03         | 0.08       | 0.01         | 3.33       | 0.00 | 0.00 | 0.00 | 0.14 | 0.48 | 100.0     | 47         | 91           |            |              |
| Cl-       | 0.09         | 0.16       | 0.03         | 3.90       | 0.01 | 0.01 | 0.01 | 0.44 | 0.92 | 100.0     | 49         | 91           |            |              |
| Mg++      | 0.01         | 0.02       | 0.01         | 2.48       | 0.00 | 0.00 | 0.00 | 0.06 | 0.10 | 100.0     | 57         | 91           |            |              |
| NO2       | 0.41         | 0.36       | 0.29         | 2.78       | 0.00 | 0.03 | 0.30 | 0.84 | 2.49 | 100.0     | 3          | 91           | A          |              |
| K+        | 0.04         | 0.05       | 0.02         | 3.14       | 0.00 | 0.00 | 0.02 | 0.13 | 0.27 | 100.0     | 30         | 91           |            |              |
| Na+       | 0.11         | 0.16       | 0.04         | 4.69       | 0.00 | 0.00 | 0.05 | 0.40 | 0.82 | 100.0     | 20         | 91           |            |              |
| SO4--     | 0.32         | 0.44       | 0.14         | 3.85       | 0.00 | 0.02 | 0.14 | 1.30 | 2.04 | 100.0     | 1          | 91           | A          |              |
| SO2       | 0.06         | 0.16       | 0.02         | 3.04       | 0.01 | 0.01 | 0.01 | 0.19 | 1.20 | 100.0     | 48         | 91           | A          |              |
| NH3+NH4+  | 0.31         | 0.38       | 0.19         | 2.63       | 0.03 | 0.04 | 0.17 | 1.16 | 1.74 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.09         | 0.10       | 0.06         | 2.46       | 0.01 | 0.02 | 0.05 | 0.32 | 0.62 | 100.0     | 0          | 91           | A          |              |

NO0042R Zeppelin, Spitsbergen Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.02       | 0.01         | 2.43       | 0.00 | 0.00 | 0.01 | 0.05 | 0.10 | 100.0     | 34         | 90           |            |              |
| Cl-       | 0.23         | 0.29       | 0.12         | 3.30       | 0.01 | 0.01 | 0.13 | 0.62 | 1.96 | 100.0     | 5          | 90           |            |              |
| Mg++      | 0.03         | 0.03       | 0.02         | 2.77       | 0.00 | 0.00 | 0.02 | 0.08 | 0.14 | 100.0     | 26         | 90           |            |              |
| K+        | 0.02         | 0.01       | 0.02         | 2.19       | 0.00 | 0.00 | 0.02 | 0.04 | 0.06 | 100.0     | 26         | 90           |            |              |
| Na+       | 0.23         | 0.24       | 0.15         | 2.80       | 0.00 | 0.02 | 0.15 | 0.69 | 1.22 | 100.0     | 1          | 90           |            |              |
| SO4--     | 0.21         | 0.14       | 0.16         | 2.41       | 0.00 | 0.04 | 0.18 | 0.50 | 0.68 | 100.0     | 1          | 90           | A          |              |
| SO2       | 0.25         | 0.31       | 0.13         | 3.31       | 0.01 | 0.01 | 0.13 | 0.92 | 1.63 | 100.0     | 3          | 90           | A          |              |
| NH3+NH4+  | 0.10         | 0.12       | 0.08         | 2.07       | 0.03 | 0.03 | 0.06 | 0.26 | 0.92 | 92.2      | 0          | 83           | A          |              |
| HNO3+NO3  | 0.03         | 0.02       | 0.03         | 1.65       | 0.01 | 0.02 | 0.03 | 0.08 | 0.16 | 100.0     | 0          | 90           | A          |              |

NO0042R Zeppelin, Spitsbergen Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.02       | 0.02         | 2.27       | 0.00 | 0.00 | 0.02 | 0.05 | 0.10 | 98.9      | 19         | 91           |            |              |
| Cl-       | 0.26         | 0.32       | 0.11         | 4.35       | 0.01 | 0.01 | 0.12 | 0.80 | 1.97 | 98.9      | 15         | 91           |            |              |
| Mg++      | 0.03         | 0.03       | 0.02         | 3.01       | 0.00 | 0.00 | 0.02 | 0.10 | 0.15 | 98.9      | 26         | 91           |            |              |
| K+        | 0.02         | 0.01       | 0.01         | 2.20       | 0.00 | 0.00 | 0.01 | 0.04 | 0.06 | 98.9      | 26         | 91           |            |              |
| Na+       | 0.26         | 0.26       | 0.14         | 3.52       | 0.00 | 0.02 | 0.18 | 0.72 | 1.20 | 98.9      | 2          | 91           |            |              |
| SO4--     | 0.30         | 0.15       | 0.25         | 2.04       | 0.00 | 0.05 | 0.28 | 0.58 | 0.71 | 98.9      | 1          | 91           | A          |              |
| SO2       | 0.14         | 0.22       | 0.07         | 3.37       | 0.01 | 0.01 | 0.06 | 0.55 | 1.28 | 98.9      | 16         | 91           | A          |              |
| NH3+NH4+  | 0.24         | 0.17       | 0.20         | 1.81       | 0.04 | 0.08 | 0.19 | 0.58 | 0.90 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.04         | 0.03       | 0.03         | 1.68       | 0.01 | 0.02 | 0.03 | 0.08 | 0.22 | 98.9      | 0          | 91           | A          |              |

NO0042R Zeppelin, Spitsbergen Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.05         | 0.08       | 0.02         | 3.64       | 0.00 | 0.00 | 0.02 | 0.21 | 0.42 | 88.0      | 22         | 81           |            |              |
| Cl-       | 0.40         | 0.41       | 0.19         | 4.60       | 0.01 | 0.01 | 0.30 | 1.14 | 1.92 | 64.1      | 8          | 59           |            |              |
| Mg++      | 0.05         | 0.05       | 0.03         | 3.30       | 0.00 | 0.00 | 0.03 | 0.14 | 0.28 | 88.0      | 22         | 81           |            |              |
| K+        | 0.01         | 0.01       | 0.01         | 1.91       | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 88.0      | 54         | 81           |            |              |
| Na+       | 0.24         | 0.25       | 0.12         | 3.83       | 0.00 | 0.00 | 0.16 | 0.71 | 1.08 | 88.0      | 5          | 81           |            |              |
| SO4--     | 0.12         | 0.16       | 0.07         | 2.81       | 0.00 | 0.01 | 0.07 | 0.38 | 0.90 | 97.8      | 2          | 90           | A          |              |
| SO2       | 0.05         | 0.10       | 0.03         | 2.80       | 0.01 | 0.01 | 0.02 | 0.22 | 0.66 | 97.8      | 40         | 90           | A          |              |
| NH3+NH4+  | 0.29         | 0.20       | 0.22         | 2.26       | 0.03 | 0.03 | 0.27 | 0.67 | 1.01 | 88.0      | 0          | 81           | A          |              |
| HNO3+NO3  | 0.04         | 0.04       | 0.03         | 1.82       | 0.01 | 0.01 | 0.03 | 0.09 | 0.29 | 97.8      | 0          | 90           | A          |              |

NO0042R Zeppelin, Spitsbergen Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.04         | 0.05       | 0.02         | 3.05       | 0.00 | 0.00 | 0.02 | 0.13 | 0.38 | 94.5      | 22         | 86           |            |              |
| Cl-       | 1.02         | 1.36       | 0.60         | 2.78       | 0.05 | 0.08 | 0.62 | 4.40 | 7.05 | 67.0      | 0          | 61           |            |              |
| Mg++      | 0.07         | 0.08       | 0.04         | 2.96       | 0.00 | 0.00 | 0.05 | 0.23 | 0.45 | 94.5      | 8          | 86           |            |              |
| K+        | 0.02         | 0.02       | 0.01         | 2.36       | 0.00 | 0.00 | 0.01 | 0.07 | 0.14 | 94.5      | 34         | 86           |            |              |
| Na+       | 0.52         | 0.68       | 0.31         | 2.86       | 0.00 | 0.06 | 0.33 | 1.97 | 3.89 | 94.5      | 1          | 86           |            |              |
| SO4--     | 0.10         | 0.08       | 0.06         | 3.19       | 0.00 | 0.00 | 0.09 | 0.23 | 0.37 | 100.0     | 11         | 91           | A          |              |
| SO2       | 0.03         | 0.03       | 0.02         | 2.20       | 0.01 | 0.01 | 0.01 | 0.08 | 0.21 | 100.0     | 56         | 91           | A          |              |
| NH3+NH4+  | 0.11         | 0.09       | 0.09         | 2.14       | 0.03 | 0.03 | 0.08 | 0.27 | 0.38 | 94.5      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.02         | 0.01       | 0.02         | 1.54       | 0.01 | 0.01 | 0.02 | 0.04 | 0.07 | 100.0     | 0          | 91           | A          |              |

NO0055R Karasjok Norway

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.01       | 0.01         | 2.10       | 0.00 | 0.00 | 0.00 | 0.04 | 0.06  | 100.0     | 52         | 90           |            |              |
| Cl-       | 0.14         | 0.32       | 0.03         | 4.77       | 0.01 | 0.01 | 0.01 | 0.83 | 1.78  | 100.0     | 55         | 90           |            |              |
| Mg++      | 0.02         | 0.03       | 0.01         | 2.58       | 0.00 | 0.00 | 0.00 | 0.07 | 0.14  | 100.0     | 47         | 90           |            |              |
| NO2       | 0.39         | 0.72       | 0.23         | 2.56       | 0.01 | 0.05 | 0.25 | 0.86 | 4.94  | 91.1      | 0          | 82           | A          |              |
| K+        | 0.02         | 0.01       | 0.01         | 2.13       | 0.00 | 0.00 | 0.02 | 0.04 | 0.06  | 100.0     | 21         | 90           |            |              |
| Na+       | 0.16         | 0.21       | 0.10         | 2.54       | 0.02 | 0.03 | 0.09 | 0.57 | 1.19  | 100.0     | 0          | 90           |            |              |
| SO4--     | 0.41         | 0.31       | 0.29         | 2.64       | 0.02 | 0.04 | 0.34 | 0.95 | 1.41  | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.94         | 1.69       | 0.28         | 5.49       | 0.01 | 0.01 | 0.27 | 3.76 | 10.47 | 100.0     | 3          | 90           | A          |              |
| NH3+NH4+  | 0.58         | 0.37       | 0.50         | 1.75       | 0.12 | 0.23 | 0.45 | 1.54 | 1.80  | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.05         | 0.03       | 0.05         | 1.66       | 0.02 | 0.02 | 0.05 | 0.10 | 0.17  | 100.0     | 0          | 90           | A          |              |

NO0055R Karasjok Norway

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.02       | 0.02         | 2.23       | 0.00 | 0.00 | 0.02 | 0.05 | 0.09 | 100.0     | 20         | 92           |            |              |
| Cl-       | 0.21         | 0.37       | 0.05         | 5.94       | 0.01 | 0.01 | 0.02 | 1.07 | 1.83 | 100.0     | 45         | 92           |            |              |
| Mg++      | 0.03         | 0.03       | 0.01         | 2.79       | 0.00 | 0.00 | 0.02 | 0.08 | 0.15 | 100.0     | 34         | 92           |            |              |
| NO2       | 0.22         | 0.14       | 0.18         | 1.87       | 0.06 | 0.07 | 0.16 | 0.50 | 0.59 | 100.0     | 0          | 92           | A          |              |
| K+        | 0.02         | 0.01       | 0.01         | 2.22       | 0.00 | 0.00 | 0.01 | 0.04 | 0.05 | 100.0     | 34         | 92           |            |              |
| Na+       | 0.21         | 0.24       | 0.12         | 2.98       | 0.00 | 0.03 | 0.13 | 0.72 | 1.19 | 100.0     | 2          | 92           |            |              |
| SO4--     | 0.61         | 0.47       | 0.41         | 2.73       | 0.00 | 0.09 | 0.40 | 1.45 | 1.68 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.89         | 1.66       | 0.18         | 7.35       | 0.01 | 0.01 | 0.21 | 4.46 | 8.85 | 100.0     | 16         | 92           | A          |              |
| NH3+NH4+  | 0.53         | 0.24       | 0.48         | 1.60       | 0.06 | 0.22 | 0.49 | 0.85 | 1.79 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.06         | 0.03       | 0.05         | 1.68       | 0.02 | 0.02 | 0.05 | 0.10 | 0.19 | 100.0     | 0          | 92           | A          |              |

NO0055R Karasjok Norway

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.02         | 0.05       | 0.01         | 2.63       | 0.00 | 0.00 | 0.01 | 0.05 | 0.34 | 100.0     | 43         | 92           |            |              |
| Cl-       | 0.11         | 0.16       | 0.04         | 4.17       | 0.01 | 0.01 | 0.03 | 0.51 | 0.67 | 100.0     | 40         | 92           |            |              |
| Mg++      | 0.01         | 0.01       | 0.01         | 2.28       | 0.00 | 0.00 | 0.00 | 0.05 | 0.07 | 100.0     | 56         | 92           |            |              |
| NO2       | 0.10         | 0.08       | 0.07         | 2.63       | 0.01 | 0.01 | 0.09 | 0.23 | 0.31 | 98.9      | 19         | 91           | A          |              |
| K+        | 0.01         | 0.02       | 0.01         | 2.23       | 0.00 | 0.00 | 0.00 | 0.04 | 0.14 | 100.0     | 52         | 92           |            |              |
| Na+       | 0.11         | 0.12       | 0.06         | 3.34       | 0.00 | 0.00 | 0.07 | 0.37 | 0.58 | 100.0     | 9          | 92           |            |              |
| SO4--     | 0.19         | 0.22       | 0.11         | 2.75       | 0.01 | 0.02 | 0.09 | 0.70 | 1.01 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.12         | 0.36       | 0.03         | 3.77       | 0.01 | 0.01 | 0.03 | 0.43 | 2.47 | 100.0     | 43         | 92           | A          |              |
| NH3+NH4+  | 0.47         | 0.60       | 0.32         | 2.28       | 0.05 | 0.10 | 0.30 | 1.43 | 4.87 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.04         | 0.03       | 0.04         | 1.73       | 0.02 | 0.02 | 0.03 | 0.11 | 0.19 | 100.0     | 0          | 92           | A          |              |

NO0055R Karasjok Norway

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| Ca++      | 0.01         | 0.01       | 0.01         | 2.16       | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 97.8      | 61         | 89           |            |              |
| Cl-       | 0.24         | 0.40       | 0.05         | 6.26       | 0.01 | 0.01 | 0.04 | 1.05 | 1.98 | 97.8      | 43         | 89           |            |              |
| Mg++      | 0.02         | 0.03       | 0.01         | 2.65       | 0.00 | 0.00 | 0.00 | 0.08 | 0.11 | 97.8      | 55         | 89           |            |              |
| NO2       | 0.26         | 0.30       | 0.19         | 2.34       | 0.01 | 0.04 | 0.22 | 0.53 | 2.63 | 100.0     | 3          | 91           | A          |              |
| K+        | 0.01         | 0.02       | 0.01         | 2.34       | 0.00 | 0.00 | 0.00 | 0.04 | 0.12 | 97.8      | 49         | 89           |            |              |
| Na+       | 0.16         | 0.23       | 0.05         | 5.06       | 0.00 | 0.00 | 0.05 | 0.71 | 1.00 | 97.8      | 13         | 89           |            |              |
| SO4--     | 0.21         | 0.25       | 0.10         | 3.74       | 0.00 | 0.01 | 0.10 | 0.71 | 1.25 | 97.8      | 5          | 89           | A          |              |
| SO2       | 0.15         | 0.38       | 0.04         | 4.35       | 0.01 | 0.01 | 0.03 | 0.79 | 2.66 | 97.8      | 42         | 89           | A          |              |
| NH3+NH4+  | 0.76         | 0.85       | 0.47         | 2.71       | 0.03 | 0.10 | 0.42 | 2.11 | 5.06 | 96.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.04         | 0.03       | 0.03         | 1.67       | 0.01 | 0.02 | 0.03 | 0.09 | 0.15 | 97.8      | 0          | 89           | A          |              |

PL0002R Jarczew Poland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.73         | 0.80       | 1.54         | 1.66       | 0.24 | 0.67 | 1.57 | 3.00  | 4.03  | 95.6      | 0          | 86           | U          |              |
| NO3-      | 0.95         | 0.56       | 0.80         | 1.83       | 0.19 | 0.25 | 0.78 | 2.05  | 2.54  | 100.0     | 0          | 90           | U          |              |
| NO2       | 3.24         | 1.54       | 2.87         | 1.66       | 1.00 | 1.10 | 2.90 | 5.86  | 7.90  | 96.7      | 0          | 87           | B          |              |
| SO4--     | 1.73         | 1.09       | 1.45         | 1.88       | 0.10 | 0.50 | 1.47 | 3.64  | 6.10  | 100.0     | 0          | 90           | A          |              |
| SO2       | 6.24         | 3.80       | 5.32         | 1.76       | 1.30 | 2.00 | 4.90 | 12.75 | 22.60 | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 2.39         | 1.59       | 2.02         | 1.78       | 0.53 | 0.73 | 2.02 | 4.80  | 11.21 | 95.6      | 0          | 86           | A          |              |
| HNO3+NO3  | 1.13         | 0.55       | 1.00         | 1.68       | 0.23 | 0.37 | 0.99 | 2.23  | 2.60  | 100.0     | 0          | 90           | A          |              |

PL0002R Jarczew Poland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.73         | 1.03       | 1.45         | 1.88       | 0.18 | 0.47 | 1.50 | 3.96 | 5.30  | 95.7      | 0          | 88           | U          |              |
| NO3-      | 0.66         | 0.39       | 0.55         | 1.86       | 0.05 | 0.22 | 0.52 | 1.41 | 1.95  | 95.7      | 0          | 88           | U          |              |
| NO2       | 1.74         | 0.64       | 1.62         | 1.46       | 0.60 | 0.88 | 1.60 | 3.02 | 3.30  | 83.7      | 0          | 77           | B          |              |
| SO4--     | 1.44         | 0.64       | 1.28         | 1.70       | 0.22 | 0.44 | 1.38 | 2.59 | 2.83  | 95.7      | 0          | 88           | A          |              |
| SO2       | 2.03         | 1.45       | 1.53         | 2.22       | 0.20 | 0.34 | 1.70 | 4.40 | 6.70  | 95.7      | 0          | 88           | A          |              |
| NH3+NH4+  | 3.76         | 2.33       | 3.19         | 1.78       | 0.52 | 1.37 | 2.89 | 8.28 | 13.05 | 95.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.82         | 0.46       | 0.71         | 1.75       | 0.16 | 0.30 | 0.69 | 1.82 | 2.10  | 95.7      | 0          | 88           | A          |              |

PL0002R Jarczew Poland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.57         | 0.96       | 1.29         | 2.02       | 0.03 | 0.44 | 1.28 | 2.94 | 5.45 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.45         | 0.25       | 0.39         | 1.76       | 0.04 | 0.15 | 0.41 | 1.01 | 1.49 | 100.0     | 0          | 92           | U          |              |
| NO2       | 2.30         | 0.65       | 2.20         | 1.35       | 0.90 | 1.30 | 2.30 | 3.24 | 4.70 | 98.9      | 0          | 91           | B          |              |
| SO4--     | 1.63         | 0.80       | 1.38         | 2.06       | 0.05 | 0.56 | 1.48 | 3.01 | 4.04 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.30         | 0.78       | 1.07         | 1.97       | 0.10 | 0.32 | 1.20 | 2.64 | 4.60 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 2.76         | 1.30       | 2.51         | 1.53       | 0.84 | 1.23 | 2.46 | 5.28 | 8.97 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.55         | 0.27       | 0.49         | 1.63       | 0.17 | 0.20 | 0.52 | 1.00 | 1.73 | 100.0     | 0          | 92           | A          |              |

PL0002R Jarczew Poland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.60         | 0.85       | 1.38         | 1.75       | 0.39 | 0.51 | 1.47 | 3.14 | 4.83  | 94.5      | 0          | 86           | U          |              |
| NO3-      | 0.73         | 0.49       | 0.58         | 2.00       | 0.11 | 0.16 | 0.60 | 1.64 | 2.39  | 94.5      | 0          | 86           | U          |              |
| NO2       | 3.21         | 1.49       | 2.93         | 1.53       | 1.00 | 1.42 | 3.05 | 5.05 | 10.70 | 93.4      | 0          | 85           | B          |              |
| SO4--     | 1.66         | 0.75       | 1.49         | 1.62       | 0.26 | 0.66 | 1.61 | 3.04 | 3.97  | 93.4      | 0          | 85           | A          |              |
| SO2       | 2.70         | 2.02       | 2.07         | 2.13       | 0.50 | 0.60 | 2.10 | 6.43 | 9.70  | 94.5      | 0          | 86           | A          |              |
| NH3+NH4+  | 2.61         | 1.27       | 2.28         | 1.73       | 0.61 | 0.74 | 2.35 | 4.86 | 6.34  | 94.5      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.88         | 0.55       | 0.73         | 1.90       | 0.18 | 0.23 | 0.72 | 1.89 | 2.74  | 94.5      | 0          | 86           | A          |              |

PL0003R Sniezka Poland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.38         | 0.23       | 0.32         | 1.82       | 0.07 | 0.11 | 0.35 | 0.78 | 1.24 | 95.6      | 0          | 86           | U          |              |
| NO3-      | 0.14         | 0.08       | 0.12         | 1.65       | 0.05 | 0.05 | 0.12 | 0.32 | 0.46 | 95.6      | 0          | 86           | U          |              |
| NO2       | 1.45         | 0.58       | 1.34         | 1.47       | 0.60 | 0.70 | 1.30 | 2.50 | 3.20 | 95.6      | 0          | 86           | B          |              |
| SO4--     | 0.54         | 0.37       | 0.44         | 1.91       | 0.10 | 0.13 | 0.45 | 1.28 | 2.07 | 95.6      | 0          | 86           | A          |              |
| SO2       | 1.59         | 0.58       | 1.48         | 1.49       | 0.40 | 0.70 | 1.60 | 2.40 | 3.70 | 95.6      | 0          | 86           | A          |              |
| NH3+NH4+  | 0.57         | 0.43       | 0.46         | 1.95       | 0.09 | 0.15 | 0.46 | 1.39 | 2.37 | 95.6      | 0          | 86           | A          |              |
| HNO3+NO3  | 0.18         | 0.09       | 0.16         | 1.58       | 0.06 | 0.07 | 0.15 | 0.37 | 0.67 | 95.6      | 0          | 86           | A          |              |

PL0003R Sniezka Poland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.79         | 0.40       | 0.69         | 1.74       | 0.12 | 0.26 | 0.70 | 1.53 | 2.20 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.22         | 0.11       | 0.19         | 1.83       | 0.04 | 0.05 | 0.22 | 0.39 | 0.47 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.10         | 0.45       | 1.00         | 1.58       | 0.30 | 0.40 | 1.00 | 1.80 | 2.20 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 0.85         | 0.45       | 0.73         | 1.85       | 0.10 | 0.24 | 0.76 | 1.61 | 2.04 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.08         | 0.53       | 0.96         | 1.66       | 0.30 | 0.36 | 1.00 | 2.00 | 2.90 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.42         | 0.56       | 1.31         | 1.49       | 0.45 | 0.63 | 1.33 | 2.40 | 3.38 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.28         | 0.12       | 0.25         | 1.65       | 0.06 | 0.10 | 0.29 | 0.45 | 0.57 | 100.0     | 0          | 92           | A          |              |

PL0003R                      Sniezka                      Poland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.77         | 0.31       | 0.71         | 1.51       | 0.14 | 0.34 | 0.72 | 1.28 | 1.91 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.28         | 0.10       | 0.26         | 1.42       | 0.09 | 0.13 | 0.27 | 0.42 | 0.70 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.05         | 0.34       | 1.00         | 1.37       | 0.40 | 0.56 | 1.00 | 1.64 | 2.30 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 0.86         | 0.36       | 0.79         | 1.52       | 0.29 | 0.37 | 0.75 | 1.42 | 2.16 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.10         | 0.47       | 1.01         | 1.52       | 0.40 | 0.50 | 1.00 | 1.92 | 2.80 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.12         | 0.35       | 1.07         | 1.35       | 0.39 | 0.67 | 1.07 | 1.70 | 2.42 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.32         | 0.09       | 0.31         | 1.32       | 0.17 | 0.20 | 0.31 | 0.46 | 0.75 | 100.0     | 0          | 92           | A          |              |

PL0003R                      Sniezka                      Poland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.57         | 0.33       | 0.47         | 1.98       | 0.10 | 0.11 | 0.52 | 1.14 | 1.70 | 100.0     | 0          | 91           | U          |              |
| NO3-      | 0.19         | 0.09       | 0.17         | 1.65       | 0.05 | 0.06 | 0.17 | 0.34 | 0.43 | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.43         | 0.46       | 1.36         | 1.41       | 0.40 | 0.70 | 1.45 | 2.19 | 2.80 | 100.0     | 0          | 91           | B          |              |
| SO4--     | 0.67         | 0.38       | 0.57         | 1.81       | 0.10 | 0.23 | 0.59 | 1.42 | 1.86 | 100.0     | 0          | 91           | A          |              |
| SO2       | 1.43         | 0.52       | 1.33         | 1.50       | 0.40 | 0.60 | 1.40 | 2.40 | 2.50 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 0.81         | 0.44       | 0.68         | 1.87       | 0.13 | 0.18 | 0.75 | 1.56 | 2.36 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.22         | 0.10       | 0.20         | 1.63       | 0.05 | 0.07 | 0.20 | 0.41 | 0.52 | 100.0     | 0          | 91           | A          |              |

PL0004R                      Leba                      Poland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.95         | 0.88       | 0.57         | 3.23       | 0.03 | 0.03 | 0.54 | 2.96 | 3.81 | 100.0     | 0          | 90           | U          |              |
| NO3-      | 0.50         | 0.38       | 0.36         | 2.55       | 0.01 | 0.06 | 0.43 | 1.27 | 1.88 | 100.0     | 0          | 90           | U          |              |
| NO2       | 2.30         | 1.81       | 1.70         | 2.32       | 0.20 | 0.25 | 1.80 | 6.20 | 8.30 | 100.0     | 0          | 90           | B          |              |
| SO4--     | 1.02         | 0.66       | 0.84         | 1.89       | 0.21 | 0.26 | 0.83 | 2.51 | 3.29 | 100.0     | 0          | 90           | A          |              |
| SO2       | 2.07         | 1.93       | 1.54         | 2.14       | 0.20 | 0.55 | 1.40 | 6.25 | 9.40 | 100.0     | 0          | 90           | A          |              |
| NH3+NH4+  | 1.14         | 0.93       | 0.78         | 2.70       | 0.03 | 0.08 | 0.84 | 3.09 | 4.26 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.54         | 0.38       | 0.42         | 2.09       | 0.08 | 0.12 | 0.48 | 1.34 | 1.90 | 100.0     | 0          | 90           | A          |              |

PL0004R                      Leba                      Poland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.17         | 0.85       | 0.86         | 2.49       | 0.03 | 0.25 | 0.88 | 2.66 | 4.51 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.55         | 0.50       | 0.39         | 2.34       | 0.04 | 0.08 | 0.39 | 1.48 | 3.09 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.36         | 0.69       | 1.22         | 1.59       | 0.40 | 0.56 | 1.20 | 2.64 | 4.20 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 1.39         | 0.76       | 1.17         | 1.99       | 0.10 | 0.25 | 1.36 | 2.27 | 5.50 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.42         | 1.03       | 1.09         | 2.18       | 0.10 | 0.30 | 1.00 | 3.38 | 5.00 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.63         | 0.91       | 1.39         | 1.79       | 0.30 | 0.48 | 1.37 | 3.28 | 4.55 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.60         | 0.50       | 0.46         | 2.05       | 0.10 | 0.12 | 0.41 | 1.49 | 3.13 | 100.0     | 0          | 92           | A          |              |

PL0004R                      Leba                      Poland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.03         | 0.59       | 0.85         | 1.93       | 0.11 | 0.25 | 0.90 | 2.21 | 2.72 | 100.0     | 0          | 92           | U          |              |
| NO3-      | 0.38         | 0.20       | 0.33         | 1.79       | 0.04 | 0.13 | 0.34 | 0.72 | 0.92 | 100.0     | 0          | 92           | U          |              |
| NO2       | 0.88         | 0.36       | 0.81         | 1.52       | 0.30 | 0.35 | 0.80 | 1.54 | 2.00 | 98.9      | 0          | 91           | B          |              |
| SO4--     | 1.51         | 0.83       | 1.20         | 2.25       | 0.10 | 0.16 | 1.50 | 2.99 | 3.53 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.44         | 0.71       | 1.25         | 1.80       | 0.20 | 0.42 | 1.30 | 2.88 | 3.40 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.73         | 0.81       | 1.55         | 1.62       | 0.40 | 0.78 | 1.64 | 3.46 | 4.49 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.45         | 0.21       | 0.41         | 1.58       | 0.17 | 0.19 | 0.41 | 0.87 | 1.17 | 96.7      | 0          | 89           | A          |              |

PL0004R Leba Poland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 1.13         | 0.82       | 0.85         | 2.30       | 0.03 | 0.21 | 0.88 | 2.79 | 3.93 | 98.9      | 0          | 90           | U          |              |
| NO3-      | 0.49         | 0.41       | 0.33         | 2.77       | 0.01 | 0.05 | 0.36 | 1.27 | 2.24 | 98.9      | 0          | 90           | U          |              |
| NO2       | 1.57         | 1.20       | 1.25         | 1.96       | 0.30 | 0.45 | 1.30 | 3.95 | 7.00 | 98.9      | 0          | 90           | B          |              |
| SO4--     | 1.22         | 0.80       | 0.99         | 1.96       | 0.10 | 0.37 | 1.02 | 2.86 | 4.04 | 98.9      | 0          | 90           | A          |              |
| SO2       | 1.24         | 0.98       | 0.88         | 2.42       | 0.10 | 0.20 | 1.00 | 3.20 | 4.30 | 98.9      | 0          | 90           | A          |              |
| NH3+NH4+  | 1.96         | 1.32       | 1.54         | 2.08       | 0.26 | 0.37 | 1.68 | 4.86 | 5.70 | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.61         | 0.47       | 0.44         | 2.28       | 0.04 | 0.12 | 0.45 | 1.45 | 2.35 | 98.9      | 0          | 90           | A          |              |

PL0005R Diabla Gora Poland

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.17         | 0.67       | 0.94         | 2.19       | 0.12 | 0.16 | 1.07 | 2.31  | 2.52  | 32.2      | 0          | 29           | A          |              |
| SO4--     | 1.78         | 0.80       | 1.58         | 1.70       | 0.44 | 0.49 | 1.70 | 2.96  | 3.66  | 33.3      | 0          | 30           | A          |              |
| SO2       | 4.04         | 3.05       | 2.92         | 2.48       | 0.28 | 0.41 | 3.49 | 10.51 | 11.28 | 32.2      | 0          | 29           | A          |              |
| NH3+NH4+  | 1.74         | 0.90       | 1.48         | 1.90       | 0.22 | 0.30 | 1.71 | 2.93  | 4.58  | 34.4      | 0          | 31           | A          |              |
| HNO3+NO3  | 1.02         | 0.42       | 0.94         | 1.55       | 0.24 | 0.34 | 0.94 | 1.72  | 2.23  | 27.8      | 0          | 25           | A          |              |

PL0005R Diabla Gora Poland

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.82         | 0.47       | 0.69         | 1.86       | 0.15 | 0.19 | 0.74 | 1.75 | 1.97 | 65.2      | 0          | 60           | A          |              |
| SO4--     | 0.63         | 0.55       | 0.43         | 2.52       | 0.04 | 0.08 | 0.44 | 1.47 | 2.75 | 64.1      | 0          | 59           | A          |              |
| SO2       | 0.32         | 0.33       | 0.18         | 3.41       | 0.01 | 0.01 | 0.17 | 1.03 | 1.37 | 66.3      | 6          | 61           | A          |              |
| NH3+NH4+  | 0.94         | 0.42       | 0.84         | 1.63       | 0.31 | 0.35 | 0.91 | 1.60 | 2.03 | 66.3      | 0          | 61           | A          |              |
| HNO3+NO3  | 0.35         | 0.20       | 0.29         | 1.83       | 0.11 | 0.11 | 0.29 | 0.71 | 0.98 | 62.0      | 0          | 57           | A          |              |

PL0005R Diabla Gora Poland

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.56         | 0.24       | 0.51         | 1.55       | 0.09 | 0.27 | 0.50 | 0.99 | 1.41 | 97.8      | 0          | 90           | A          |              |
| SO4--     | 0.60         | 0.55       | 0.36         | 3.33       | 0.01 | 0.01 | 0.47 | 1.76 | 2.36 | 96.7      | 5          | 89           | A          |              |
| SO2       | 0.25         | 0.29       | 0.16         | 2.91       | 0.01 | 0.01 | 0.17 | 0.60 | 2.03 | 98.9      | 8          | 91           | A          |              |
| NH3+NH4+  | 1.05         | 0.65       | 0.81         | 2.32       | 0.03 | 0.09 | 0.92 | 2.23 | 3.09 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.21         | 0.11       | 0.18         | 1.69       | 0.06 | 0.07 | 0.18 | 0.39 | 0.71 | 96.7      | 0          | 89           | A          |              |

PL0005R Diabla Gora Poland

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.37         | 1.02       | 1.09         | 1.93       | 0.26 | 0.39 | 0.95 | 3.04 | 5.25 | 95.6      | 0          | 87           | A          |              |
| SO4--     | 0.86         | 0.69       | 0.55         | 3.13       | 0.01 | 0.06 | 0.69 | 2.20 | 3.22 | 97.8      | 3          | 89           | A          |              |
| SO2       | 0.78         | 0.99       | 0.42         | 3.23       | 0.01 | 0.06 | 0.37 | 2.49 | 5.27 | 96.7      | 1          | 88           | A          |              |
| NH3+NH4+  | 1.32         | 0.93       | 0.88         | 3.05       | 0.03 | 0.08 | 1.21 | 3.12 | 3.54 | 98.9      | 0          | 90           | A          |              |
| HNO3+NO3  | 0.54         | 0.42       | 0.39         | 2.34       | 0.08 | 0.09 | 0.38 | 1.33 | 1.76 | 97.8      | 0          | 89           | A          |              |

RU0001R Janiskoski Russian Federation

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.22         | 0.16       | 0.16         | 2.48       | 0.01 | 0.02 | 0.17 | 0.56 | 0.70 | 84.4      | 6          | 76           | U          |              |
| NO3-      | 0.09         | 0.09       | 0.06         | 2.25       | 0.01 | 0.02 | 0.06 | 0.19 | 0.70 | 84.4      | 8          | 76           | U          |              |
| SO4--     | 0.61         | 0.58       | 0.38         | 3.02       | 0.03 | 0.03 | 0.40 | 1.99 | 2.21 | 84.4      | 0          | 76           | A          |              |
| SO2       | 0.89         | 1.34       | 0.52         | 3.85       | 0.00 | 0.00 | 0.32 | 3.11 | 8.40 | 84.4      | 24         | 76           | B          |              |
| NH3+NH4+  | 0.23         | 0.15       | 0.19         | 1.89       | 0.04 | 0.06 | 0.18 | 0.55 | 0.74 | 84.4      | 1          | 76           | A          |              |

RU0001R Janiskoski Russian Federation

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.33         | 0.21       | 0.25         | 2.77       | 0.00 | 0.01 | 0.35 | 0.64 | 0.75 | 69.6      | 14         | 64           | U          |              |
| NO3-      | 0.09         | 0.07       | 0.11         | 2.03       | 0.00 | 0.00 | 0.08 | 0.25 | 0.34 | 69.6      | 12         | 64           | U          |              |
| SO4--     | 0.88         | 0.87       | 0.49         | 3.95       | 0.00 | 0.01 | 0.67 | 2.34 | 4.24 | 69.6      | 7          | 64           | A          |              |
| SO2       | 0.94         | 1.73       | 0.22         | 7.75       | 0.00 | 0.00 | 0.21 | 4.75 | 9.93 | 69.6      | 25         | 64           | B          |              |
| NH3+NH4+  | 0.27         | 0.12       | 0.24         | 1.69       | 0.03 | 0.09 | 0.24 | 0.49 | 0.56 | 69.6      | 2          | 64           | A          |              |

RU0001R Janiskoski Russian Federation

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.16         | 0.17       | 0.12         | 2.60       | 0.00 | 0.00 | 0.10 | 0.42 | 1.04  | 100.0     | 48         | 92           | U          |              |
| NO3-      | 0.04         | 0.04       | 0.05         | 2.39       | 0.00 | 0.00 | 0.03 | 0.12 | 0.19  | 100.0     | 50         | 92           | U          |              |
| SO4--     | 0.27         | 0.34       | 0.16         | 3.21       | 0.00 | 0.01 | 0.14 | 0.80 | 2.10  | 100.0     | 17         | 92           | A          |              |
| SO2       | 1.05         | 2.47       | 0.23         | 6.03       | 0.00 | 0.00 | 0.08 | 6.71 | 13.94 | 100.0     | 41         | 92           | B          |              |
| NH3+NH4+  | 0.17         | 0.12       | 0.14         | 1.80       | 0.04 | 0.05 | 0.14 | 0.36 | 0.82  | 100.0     | 9          | 92           | A          |              |

RU0001R Janiskoski Russian Federation

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.20         | 0.17       | 0.15         | 2.37       | 0.00 | 0.02 | 0.17 | 0.47 | 0.89 | 53.8      | 17         | 49           | U          |              |
| NO3-      | 0.05         | 0.05       | 0.04         | 2.21       | 0.01 | 0.01 | 0.04 | 0.13 | 0.27 | 53.8      | 24         | 49           | U          |              |
| SO4--     | 0.37         | 0.39       | 0.23         | 2.72       | 0.02 | 0.05 | 0.22 | 1.13 | 1.87 | 53.8      | 2          | 49           | A          |              |
| SO2       | 0.36         | 1.09       | 0.15         | 4.23       | 0.00 | 0.00 | 0.05 | 0.87 | 6.91 | 53.8      | 26         | 49           | B          |              |
| NH3+NH4+  | 0.26         | 0.14       | 0.23         | 1.66       | 0.09 | 0.09 | 0.22 | 0.49 | 0.85 | 53.8      | 0          | 49           | A          |              |

RU0016R Shepeljovo Russian Federation

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.63         | 0.42       | 0.51         | 1.95       | 0.09 | 0.14 | 0.50 | 1.39 | 2.36 | 91.1      | 15         | 82           | U          |              |
| NO3-      | 0.21         | 0.14       | 0.17         | 1.98       | 0.01 | 0.06 | 0.16 | 0.50 | 0.70 | 91.1      | 1          | 82           | U          |              |
| SO4--     | 0.88         | 0.56       | 0.72         | 1.95       | 0.11 | 0.20 | 0.71 | 1.69 | 3.30 | 91.1      | 0          | 82           | A          |              |
| SO2       | 2.14         | 1.31       | 1.76         | 1.93       | 0.27 | 0.48 | 1.83 | 4.27 | 7.12 | 90.0      | 0          | 81           | B          |              |

RU0016R Shepeljovo Russian Federation

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.64         | 0.45       | 0.50         | 2.28       | 0.01 | 0.15 | 0.60 | 1.40 | 2.47 | 82.6      | 24         | 76           | U          |              |
| NO3-      | 0.29         | 0.18       | 0.25         | 1.77       | 0.07 | 0.09 | 0.23 | 0.65 | 1.07 | 82.6      | 0          | 76           | U          |              |
| SO4--     | 0.77         | 0.60       | 0.56         | 2.51       | 0.01 | 0.11 | 0.60 | 1.75 | 3.34 | 82.6      | 3          | 76           | A          |              |
| SO2       | 1.38         | 1.49       | 0.82         | 2.92       | 0.03 | 0.17 | 0.79 | 4.45 | 6.53 | 82.6      | 1          | 76           | B          |              |

RU0016R Shepeljovo Russian Federation

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.48         | 0.35       | 0.38         | 2.46       | 0.00 | 0.01 | 0.44 | 1.03 | 1.41 | 96.7      | 40         | 89           | U          |              |
| NO3-      | 0.18         | 0.12       | 0.15         | 2.10       | 0.01 | 0.04 | 0.16 | 0.39 | 0.64 | 96.7      | 4          | 89           | U          |              |
| SO4--     | 0.46         | 0.38       | 0.36         | 2.24       | 0.00 | 0.05 | 0.35 | 1.28 | 1.83 | 96.7      | 10         | 89           | A          |              |
| SO2       | 0.38         | 0.36       | 0.27         | 2.34       | 0.00 | 0.07 | 0.25 | 1.14 | 1.93 | 96.7      | 15         | 89           | B          |              |

RU0016R Shepeljovo Russian Federation

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.52         | 0.40       | 0.41         | 2.26       | 0.00 | 0.03 | 0.43 | 1.32 | 1.79 | 67.0      | 24         | 61           | U          |              |
| NO3-      | 0.16         | 0.16       | 0.12         | 2.37       | 0.00 | 0.01 | 0.12 | 0.41 | 0.86 | 67.0      | 7          | 61           | U          |              |
| SO4--     | 0.48         | 0.35       | 0.38         | 2.11       | 0.00 | 0.09 | 0.37 | 1.17 | 1.40 | 67.0      | 4          | 61           | A          |              |
| SO2       | 0.53         | 0.54       | 0.35         | 3.18       | 0.00 | 0.00 | 0.31 | 1.59 | 2.08 | 67.0      | 18         | 61           | B          |              |

RU0018R Danki Russian Federation

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.37         | 0.25       | 0.29         | 2.09       | 0.05 | 0.05 | 0.32 | 0.76 | 1.48 | 89.1      | 14         | 82           | U          |              |
| NO3-      | 0.06         | 0.05       | 0.05         | 2.20       | 0.01 | 0.01 | 0.04 | 0.16 | 0.26 | 89.1      | 29         | 82           | U          |              |
| SO4--     | 0.34         | 0.23       | 0.28         | 2.14       | 0.00 | 0.05 | 0.29 | 0.67 | 1.30 | 89.1      | 4          | 82           | A          |              |
| SO2       | 0.19         | 0.16       | 0.15         | 2.59       | 0.00 | 0.01 | 0.16 | 0.51 | 0.72 | 89.1      | 23         | 82           | B          |              |

RU0018R Danki Russian Federation

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.52         | 0.36       | 0.43         | 1.89       | 0.06 | 0.14 | 0.45 | 1.30 | 1.78 | 90.1      | 1          | 82           | U          |              |
| NO3-      | 0.13         | 0.13       | 0.09         | 2.45       | 0.01 | 0.02 | 0.09 | 0.47 | 0.66 | 90.1      | 12         | 82           | U          |              |
| SO4--     | 0.47         | 0.34       | 0.37         | 2.16       | 0.02 | 0.10 | 0.39 | 1.19 | 1.72 | 90.1      | 1          | 82           | A          |              |
| SO2       | 0.16         | 0.28       | 0.11         | 3.21       | 0.00 | 0.00 | 0.07 | 0.86 | 1.43 | 90.1      | 45         | 82           | B          |              |

SE0002R Rorvik Sweden

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.80         | 1.81       | 2.32         | 1.88       | 0.38 | 0.81 | 2.33 | 6.06 | 10.67 | 100.0     | 0          | 90           | A          |              |
| SO4--     | 0.67         | 0.49       | 0.50         | 2.36       | 0.02 | 0.10 | 0.57 | 1.66 | 2.68  | 90.0      | 0          | 81           | A          |              |
| SO2       | 0.66         | 0.58       | 0.50         | 2.28       | 0.01 | 0.12 | 0.58 | 1.27 | 4.79  | 90.0      | 0          | 81           | B          |              |
| NH3+NH4+  | 0.80         | 0.80       | 0.52         | 2.66       | 0.03 | 0.10 | 0.44 | 2.36 | 4.42  | 88.9      | 7          | 80           | A          |              |
| HNO3+NO3  | 0.69         | 0.80       | 0.44         | 2.57       | 0.05 | 0.09 | 0.38 | 2.05 | 5.56  | 90.0      | 1          | 81           | A          |              |
| SPM       | 2.2          | 2.6        | 1.4          | 2.4        | 0.7  | 0.7  | 0.7  | 6.7  | 18.6  | 97.8      | 46         | 88           |            |              |

SE0002R Rorvik Sweden

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.58         | 0.90       | 1.35         | 1.77       | 0.30 | 0.53 | 1.38 | 3.51 | 4.64 | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.80         | 0.73       | 0.60         | 2.63       | 0.00 | 0.00 | 0.56 | 2.22 | 3.70 | 100.0     | 7          | 92           | A          |              |
| SO2       | 0.64         | 0.50       | 0.49         | 2.23       | 0.02 | 0.11 | 0.52 | 1.71 | 2.91 | 100.0     | 0          | 92           | B          |              |
| NH3+NH4+  | 1.65         | 1.76       | 0.98         | 2.91       | 0.11 | 0.19 | 1.01 | 5.47 | 8.40 | 98.9      | 5          | 91           | A          |              |
| HNO3+NO3  | 1.20         | 1.49       | 0.61         | 3.42       | 0.00 | 0.09 | 0.54 | 4.26 | 7.39 | 100.0     | 7          | 92           | A          |              |
| SPM       | 1.6          | 1.8        | 1.1          | 2.1        | 0.7  | 0.7  | 0.7  | 6.2  | 9.2  | 95.7      | 63         | 88           |            |              |

SE0002R Rorvik Sweden

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.97         | 0.40       | 0.89         | 1.49       | 0.33 | 0.43 | 0.89 | 1.69 | 2.21 | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.56         | 0.42       | 0.41         | 2.37       | 0.02 | 0.09 | 0.40 | 1.35 | 1.82 | 93.5      | 0          | 86           | A          |              |
| SO2       | 0.47         | 0.28       | 0.37         | 2.18       | 0.01 | 0.10 | 0.41 | 0.98 | 1.41 | 92.4      | 0          | 85           | B          |              |
| NH3+NH4+  | 0.71         | 0.42       | 0.60         | 1.83       | 0.15 | 0.18 | 0.63 | 1.43 | 2.15 | 93.5      | 1          | 86           | A          |              |
| HNO3+NO3  | 0.47         | 0.27       | 0.38         | 1.97       | 0.05 | 0.09 | 0.44 | 0.98 | 1.30 | 92.4      | 0          | 85           | A          |              |
| SPM       | 0.8          | 0.3        | 0.7          | 1.2        | 0.7  | 0.7  | 0.7  | 1.4  | 2.5  | 96.7      | 83         | 89           |            |              |

SE0002R Rorvik Sweden

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.60         | 1.24       | 1.28         | 1.93       | 0.25 | 0.44 | 1.34 | 3.39 | 8.89 | 97.8      | 0          | 89           | A          |              |
| SO4--     | 0.87         | 0.65       | 0.63         | 2.44       | 0.03 | 0.13 | 0.66 | 2.13 | 2.82 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.51         | 0.40       | 0.37         | 2.47       | 0.02 | 0.06 | 0.41 | 1.26 | 2.15 | 100.0     | 0          | 91           | B          |              |
| NH3+NH4+  | 1.04         | 0.85       | 0.71         | 2.59       | 0.04 | 0.15 | 0.76 | 2.57 | 3.41 | 100.0     | 3          | 91           | A          |              |
| HNO3+NO3  | 0.63         | 0.57       | 0.42         | 2.55       | 0.05 | 0.08 | 0.40 | 1.82 | 2.61 | 100.0     | 1          | 91           | A          |              |
| SPM       | 1.5          | 1.7        | 1.0          | 2.0        | 0.7  | 0.7  | 0.7  | 5.0  | 10.0 | 92.3      | 62         | 84           |            |              |

SE0005R Bredkalen Sweden

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.35         | 0.25       | 0.27         | 2.13       | 0.05 | 0.05 | 0.29 | 0.85 | 1.15 | 98.9      | 6          | 89           | A          |              |
| SO4--     | 0.15         | 0.16       | 0.10         | 3.20       | 0.00 | 0.00 | 0.12 | 0.48 | 0.71 | 100.0     | 4          | 90           | A          |              |
| SO2       | 0.13         | 0.24       | 0.06         | 3.70       | 0.00 | 0.00 | 0.02 | 0.59 | 1.23 | 98.9      | 5          | 89           | B          |              |
| NH3+NH4+  | 0.11         | 0.11       | 0.07         | 2.73       | 0.01 | 0.01 | 0.08 | 0.36 | 0.54 | 100.0     | 27         | 90           | A          |              |
| HNO3+NO3  | 0.05         | 0.03       | 0.04         | 1.92       | 0.01 | 0.01 | 0.04 | 0.09 | 0.19 | 98.9      | 7          | 89           | A          |              |
| SPM       | 1.0          | 0.5        | 0.9          | 1.6        | 0.7  | 0.7  | 0.7  | 2.0  | 2.0  | 100.0     | 63         | 90           |            |              |

SE0005R Bredkalen Sweden

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.19         | 0.11       | 0.17         | 1.74       | 0.07 | 0.07 | 0.17 | 0.42 | 0.58 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.29         | 0.30       | 0.18         | 2.73       | 0.03 | 0.04 | 0.19 | 0.99 | 1.37 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.14         | 0.24       | 0.08         | 3.45       | 0.00 | 0.00 | 0.04 | 0.62 | 1.28 | 100.0     | 7          | 92           | B          |              |
| NH3+NH4+  | 0.22         | 0.17       | 0.16         | 2.39       | 0.02 | 0.03 | 0.15 | 0.52 | 0.59 | 100.0     | 7          | 92           | A          |              |
| HNO3+NO3  | 0.05         | 0.04       | 0.04         | 2.05       | 0.01 | 0.01 | 0.04 | 0.13 | 0.22 | 100.0     | 9          | 92           | A          |              |
| SPM       | 0.8          | 0.3        | 0.7          | 1.2        | 0.7  | 0.7  | 0.7  | 0.7  | 2.5  | 100.0     | 88         | 92           |            |              |

SE0005R Bredkalen Sweden

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.09         | 0.05       | 0.07         | 1.94       | 0.03 | 0.03 | 0.08 | 0.19 | 0.23 | 97.8      | 27         | 90           | A          |              |
| SO4--     | 0.16         | 0.23       | 0.10         | 3.14       | 0.00 | 0.00 | 0.07 | 0.58 | 1.36 | 100.0     | 5          | 92           | A          |              |
| SO2       | 0.05         | 0.08       | 0.04         | 2.29       | 0.00 | 0.01 | 0.02 | 0.15 | 0.68 | 98.9      | 4          | 91           | B          |              |
| NH3+NH4+  | 0.17         | 0.23       | 0.10         | 2.63       | 0.02 | 0.02 | 0.08 | 0.64 | 1.36 | 100.0     | 27         | 92           | A          |              |
| HNO3+NO3  | 0.04         | 0.04       | 0.04         | 2.22       | 0.00 | 0.00 | 0.03 | 0.10 | 0.26 | 98.9      | 21         | 91           | A          |              |
| SPM       | 0.7          | 0.0        | 0.7          | 1.0        | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 100.0     | 92         | 92           |            |              |

SE0005R Bredkalen Sweden

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.16         | 0.12       | 0.13         | 1.99       | 0.03 | 0.03 | 0.14 | 0.33 | 0.93 | 100.0     | 8          | 91           | A          |              |
| SO4--     | 0.24         | 0.30       | 0.11         | 3.86       | 0.01 | 0.02 | 0.08 | 0.81 | 1.34 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.05         | 0.12       | 0.05         | 2.51       | 0.00 | 0.00 | 0.02 | 0.17 | 0.98 | 100.0     | 10         | 91           | B          |              |
| NH3+NH4+  | 0.21         | 0.26       | 0.10         | 3.66       | 0.01 | 0.01 | 0.09 | 0.64 | 1.62 | 100.0     | 22         | 91           | A          |              |
| HNO3+NO3  | 0.06         | 0.13       | 0.04         | 2.34       | 0.00 | 0.01 | 0.03 | 0.12 | 1.20 | 100.0     | 2          | 91           | A          |              |
| SPM       | 0.7          | 0.0        | 0.7          | 1.0        | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 98.9      | 90         | 90           |            |              |

SE0008R Hoburg Sweden

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.40         | 1.30       | 0.97         | 2.34       | 0.18 | 0.27 | 0.87 | 4.17 | 5.96 | 100.0     | 0          | 90           | A          |              |
| SO4--     | 0.82         | 0.91       | 0.52         | 2.64       | 0.05 | 0.10 | 0.54 | 2.58 | 4.89 | 92.2      | 0          | 83           | A          |              |
| SO2       | 0.76         | 0.87       | 0.47         | 2.76       | 0.03 | 0.10 | 0.47 | 2.35 | 4.99 | 92.2      | 0          | 83           | B          |              |
| SPM       | 3.5          | 4.6        | 1.9          | 2.9        | 0.7  | 0.7  | 2.0  | 12.6 | 25.5 | 100.0     | 39         | 90           |            |              |

SE0008R Hoburg Sweden

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.24         | 0.67       | 1.06         | 1.79       | 0.29 | 0.34 | 1.07 | 2.38 | 3.14 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.81         | 0.73       | 0.41         | 4.36       | 0.01 | 0.02 | 0.58 | 2.20 | 3.09 | 98.9      | 0          | 91           | A          |              |
| SO2       | 0.81         | 0.66       | 0.62         | 2.07       | 0.10 | 0.21 | 0.60 | 2.00 | 3.30 | 98.9      | 0          | 91           | B          |              |
| SPM       | 2.6          | 3.6        | 1.4          | 2.7        | 0.7  | 0.7  | 0.7  | 10.6 | 18.1 | 98.9      | 58         | 91           |            |              |

SE0008R Hoburg Sweden

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.79         | 0.40       | 0.70         | 1.63       | 0.21 | 0.34 | 0.70 | 1.45 | 2.31 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.57         | 0.49       | 0.38         | 2.73       | 0.00 | 0.06 | 0.44 | 1.66 | 1.93 | 100.0     | 1          | 92           | A          |              |
| SO2       | 0.58         | 0.39       | 0.44         | 2.27       | 0.02 | 0.12 | 0.54 | 1.30 | 1.79 | 100.0     | 0          | 92           | B          |              |
| SPM       | 0.9          | 0.6        | 0.8          | 1.5        | 0.7  | 0.7  | 0.7  | 2.1  | 4.0  | 100.0     | 81         | 92           |            |              |

SE0008R Hoburg Sweden

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.01         | 0.90       | 0.75         | 2.14       | 0.13 | 0.28 | 0.76 | 2.51 | 5.89 | 95.6      | 0          | 87           | A          |              |
| SO4--     | 0.81         | 0.77       | 0.53         | 2.77       | 0.05 | 0.08 | 0.63 | 2.43 | 3.89 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.52         | 0.53       | 0.33         | 2.84       | 0.02 | 0.05 | 0.35 | 1.53 | 2.78 | 97.8      | 0          | 89           | B          |              |
| SPM       | 2.3          | 2.7        | 1.4          | 2.5        | 0.7  | 0.7  | 0.7  | 8.0  | 14.9 | 98.9      | 55         | 90           |            |              |

SE0011R Vavihill Sweden

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.10         | 2.06       | 2.40         | 2.14       | 0.41 | 0.64 | 2.70 | 7.25 | 8.08 | 98.9      | 0          | 89           | A          |              |
| SO4--     | 0.70         | 0.73       | 0.50         | 2.29       | 0.00 | 0.09 | 0.48 | 2.25 | 4.10 | 97.8      | 1          | 88           | A          |              |
| SO2       | 0.99         | 1.38       | 0.56         | 2.79       | 0.06 | 0.10 | 0.50 | 3.70 | 7.46 | 97.8      | 0          | 88           | B          |              |
| NH3+NH4+  | 0.96         | 0.89       | 0.64         | 2.57       | 0.05 | 0.14 | 0.61 | 2.89 | 4.02 | 97.8      | 8          | 88           | A          |              |
| HNO3+NO3  | 0.67         | 0.58       | 0.46         | 2.49       | 0.07 | 0.11 | 0.49 | 1.75 | 3.35 | 97.8      | 1          | 88           | A          |              |
| SPM       | 3.1          | 4.1        | 1.9          | 2.6        | 0.7  | 0.7  | 2.0  | 9.6  | 22.6 | 100.0     | 33         | 90           |            |              |

SE0011R Vavihill Sweden

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.31         | 0.83       | 1.08         | 1.88       | 0.32 | 0.38 | 1.03 | 2.81 | 3.94 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.90         | 0.73       | 0.60         | 2.89       | 0.01 | 0.07 | 0.70 | 2.52 | 3.11 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.57         | 0.48       | 0.39         | 2.59       | 0.02 | 0.07 | 0.41 | 1.60 | 2.21 | 98.9      | 0          | 91           | B          |              |
| NH3+NH4+  | 1.69         | 1.32       | 1.27         | 2.20       | 0.16 | 0.34 | 1.29 | 4.54 | 6.34 | 100.0     | 2          | 92           | A          |              |
| HNO3+NO3  | 0.83         | 0.78       | 0.55         | 2.58       | 0.03 | 0.12 | 0.46 | 2.37 | 4.15 | 98.9      | 1          | 91           | A          |              |
| SPM       | 2.2          | 2.7        | 1.3          | 2.4        | 0.7  | 0.7  | 0.7  | 7.2  | 15.4 | 97.8      | 55         | 90           |            |              |

SE0011R Vavihill Sweden

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.07         | 0.41       | 0.99         | 1.50       | 0.32 | 0.49 | 0.98 | 1.79 | 2.11 | 100.0     | 0          | 92           | A          |              |
| SO4--     | 0.68         | 0.47       | 0.51         | 2.25       | 0.06 | 0.09 | 0.53 | 1.55 | 2.14 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.33         | 0.32       | 0.22         | 2.91       | 0.00 | 0.02 | 0.26 | 0.81 | 1.97 | 100.0     | 1          | 92           | B          |              |
| NH3+NH4+  | 1.27         | 0.64       | 1.12         | 1.71       | 0.19 | 0.47 | 1.20 | 2.32 | 3.57 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.44         | 0.22       | 0.37         | 1.84       | 0.04 | 0.11 | 0.40 | 0.83 | 1.10 | 100.0     | 1          | 92           | A          |              |
| SPM       | 0.8          | 0.4        | 0.8          | 1.3        | 0.7  | 0.7  | 0.7  | 1.4  | 3.1  | 98.9      | 84         | 91           |            |              |

SE0011R Vavihill Sweden

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.77         | 1.18       | 1.41         | 2.02       | 0.35 | 0.45 | 1.59 | 3.73 | 5.81 | 97.8      | 0          | 89           | A          |              |
| SO4--     | 0.82         | 0.66       | 0.58         | 2.49       | 0.03 | 0.10 | 0.60 | 2.07 | 2.97 | 97.8      | 0          | 89           | A          |              |
| SO2       | 0.66         | 0.66       | 0.41         | 2.90       | 0.01 | 0.07 | 0.45 | 1.97 | 3.12 | 97.8      | 0          | 89           | B          |              |
| NH3+NH4+  | 1.44         | 1.15       | 1.07         | 2.21       | 0.24 | 0.28 | 1.10 | 3.42 | 7.07 | 96.7      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.75         | 0.87       | 0.49         | 2.64       | 0.07 | 0.09 | 0.54 | 1.79 | 7.14 | 97.8      | 2          | 89           | A          |              |
| SPM       | 1.1          | 1.1        | 0.9          | 1.7        | 0.7  | 0.7  | 0.7  | 3.4  | 8.4  | 94.5      | 68         | 86           |            |              |

SE0012R      Aspvreten      Sweden

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.34         | 0.83       | 1.14         | 1.74       | 0.38 | 0.47 | 1.12 | 2.52 | 5.46 | 100.0     | 0          | 90           | A          |              |
| SO4--     | 0.55         | 0.68       | 0.28         | 3.57       | 0.01 | 0.02 | 0.37 | 1.57 | 3.46 | 98.9      | 0          | 89           | A          |              |
| SO2       | 0.50         | 0.58       | 0.29         | 2.99       | 0.02 | 0.04 | 0.32 | 1.37 | 3.28 | 98.9      | 0          | 89           | B          |              |
| NH3+NH4+  | 0.44         | 0.53       | 0.24         | 3.23       | 0.01 | 0.03 | 0.26 | 1.40 | 3.38 | 98.9      | 15         | 89           | A          |              |
| HNO3+NO3  | 0.27         | 0.19       | 0.22         | 1.88       | 0.04 | 0.08 | 0.22 | 0.57 | 1.17 | 98.9      | 2          | 89           | A          |              |

SE0012R      Aspvreten      Sweden

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.67         | 0.28       | 0.61         | 1.52       | 0.25 | 0.27 | 0.61 | 1.16 | 1.65 | 66.3      | 0          | 61           | A          |              |
| SO4--     | 0.66         | 0.66       | 0.41         | 3.38       | 0.00 | 0.01 | 0.37 | 1.90 | 2.92 | 93.5      | 3          | 86           | A          |              |
| SO2       | 0.41         | 0.43       | 0.26         | 2.56       | 0.03 | 0.06 | 0.27 | 1.32 | 2.73 | 98.9      | 0          | 91           | B          |              |
| NH3+NH4+  | 0.93         | 1.34       | 0.48         | 3.17       | 0.03 | 0.06 | 0.40 | 3.42 | 7.27 | 93.5      | 8          | 86           | A          |              |
| HNO3+NO3  | 0.62         | 1.18       | 0.31         | 2.68       | 0.04 | 0.08 | 0.26 | 2.27 | 6.86 | 93.5      | 0          | 86           | A          |              |

SE0012R      Aspvreten      Sweden

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.47         | 0.15       | 0.44         | 1.34       | 0.24 | 0.27 | 0.44 | 0.67 | 1.18 | 98.9      | 0          | 91           | A          |              |
| SO4--     | 0.46         | 0.51       | 0.26         | 3.12       | 0.01 | 0.04 | 0.26 | 1.52 | 2.31 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.28         | 0.24       | 0.21         | 2.23       | 0.00 | 0.04 | 0.20 | 0.80 | 1.21 | 98.9      | 1          | 91           | B          |              |
| NH3+NH4+  | 0.45         | 0.38       | 0.32         | 2.30       | 0.04 | 0.08 | 0.30 | 1.32 | 1.65 | 100.0     | 7          | 92           | A          |              |
| HNO3+NO3  | 0.23         | 0.18       | 0.18         | 2.10       | 0.03 | 0.04 | 0.18 | 0.57 | 0.94 | 98.9      | 10         | 91           | A          |              |

SE0012R      Aspvreten      Sweden

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 0.78         | 0.49       | 0.67         | 1.74       | 0.22 | 0.29 | 0.66 | 1.58 | 2.90 | 98.9      | 0          | 90           | A          |              |
| SO4--     | 0.70         | 0.76       | 0.39         | 3.42       | 0.01 | 0.03 | 0.47 | 2.32 | 3.81 | 98.9      | 0          | 90           | A          |              |
| SO2       | 0.34         | 0.41       | 0.19         | 3.13       | 0.01 | 0.02 | 0.17 | 1.03 | 2.79 | 94.5      | 0          | 86           | B          |              |
| NH3+NH4+  | 0.66         | 0.65       | 0.43         | 2.63       | 0.04 | 0.09 | 0.43 | 2.21 | 3.14 | 98.9      | 5          | 90           | A          |              |
| HNO3+NO3  | 0.29         | 0.21       | 0.22         | 2.24       | 0.02 | 0.05 | 0.25 | 0.66 | 1.13 | 94.5      | 1          | 86           | A          |              |

SI0008R      Iskrba      Slovenia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.76         | 0.61       | 0.54         | 2.37       | 0.08 | 0.11 | 0.58 | 1.88 | 3.22  | 97.8      | 0          | 88           | A          |              |
| SO2       | 1.85         | 2.38       | 0.76         | 4.60       | 0.03 | 0.03 | 1.00 | 6.76 | 11.22 | 97.8      | 0          | 88           | A          |              |
| NH3+NH4+  | 0.60         | 0.44       | 0.48         | 2.02       | 0.08 | 0.16 | 0.53 | 1.42 | 2.52  | 97.8      | 0          | 88           | A          |              |
| HNO3+NO3  | 0.28         | 0.25       | 0.20         | 2.31       | 0.02 | 0.04 | 0.19 | 0.85 | 1.15  | 97.8      | 0          | 88           | A          |              |

SI0008R Iskrba Slovenia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.17         | 0.88       | 0.85         | 2.43       | 0.08 | 0.15 | 0.94 | 2.61 | 4.48 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.03         | 1.51       | 0.44         | 3.90       | 0.02 | 0.05 | 0.43 | 3.65 | 9.76 | 100.0     | 0          | 92           | A          |              |
| NH3+NH4+  | 1.23         | 0.99       | 0.90         | 2.34       | 0.10 | 0.19 | 0.97 | 2.89 | 5.06 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.34         | 0.35       | 0.22         | 2.68       | 0.01 | 0.03 | 0.22 | 0.96 | 2.21 | 100.0     | 0          | 92           | A          |              |

SI0008R Iskrba Slovenia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 1.02         | 0.76       | 0.78         | 2.18       | 0.09 | 0.21 | 0.80 | 2.51 | 3.59 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.55         | 0.82       | 0.31         | 3.36       | 0.00 | 0.00 | 0.27 | 2.38 | 4.61 | 100.0     | 6          | 92           | A          |              |
| NH3+NH4+  | 1.07         | 0.61       | 0.93         | 1.73       | 0.22 | 0.32 | 0.95 | 2.48 | 3.19 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.17         | 0.12       | 0.13         | 2.04       | 0.01 | 0.04 | 0.14 | 0.38 | 0.69 | 100.0     | 0          | 92           | A          |              |

SI0008R Iskrba Slovenia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| SO4--     | 0.85         | 0.56       | 0.62         | 2.46       | 0.02 | 0.11 | 0.71 | 1.79 | 2.20 | 100.0     | 0          | 91           | A          |              |
| SO2       | 0.68         | 0.76       | 0.36         | 3.52       | 0.01 | 0.03 | 0.40 | 2.52 | 3.49 | 100.0     | 0          | 91           | A          |              |
| NH3+NH4+  | 0.80         | 0.53       | 0.63         | 2.07       | 0.10 | 0.18 | 0.67 | 1.89 | 2.35 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.20         | 0.18       | 0.15         | 2.27       | 0.02 | 0.04 | 0.14 | 0.51 | 1.31 | 100.0     | 0          | 91           | A          |              |

SK0002R Chopok Slovakia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.09         | 0.05       | 0.07         | 1.92       | 0.01 | 0.02 | 0.08 | 0.17 | 0.39 | 100.0     | 0          | 90           | U          |              |
| HNO3      | 0.08         | 0.05       | 0.07         | 1.61       | 0.02 | 0.04 | 0.07 | 0.19 | 0.26 | 100.0     | 0          | 90           | U          |              |
| NO2       | 0.74         | 0.37       | 0.65         | 1.69       | 0.20 | 0.24 | 0.60 | 1.45 | 1.60 | 100.0     | 0          | 90           | B          |              |
| SO4--     | 0.38         | 0.31       | 0.30         | 2.00       | 0.07 | 0.10 | 0.30 | 1.00 | 1.67 | 100.0     | 0          | 90           | A          |              |
| SO2       | 0.99         | 0.85       | 0.71         | 2.33       | 0.10 | 0.20 | 0.80 | 2.40 | 5.00 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.21         | 0.14       | 0.18         | 1.73       | 0.04 | 0.07 | 0.16 | 0.46 | 0.77 | 100.0     | 0          | 90           | A          |              |

SK0002R Chopok Slovakia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.27         | 0.20       | 0.20         | 2.19       | 0.02 | 0.06 | 0.19 | 0.63 | 0.91 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.09         | 0.04       | 0.08         | 1.52       | 0.04 | 0.04 | 0.08 | 0.18 | 0.19 | 100.0     | 0          | 92           | U          |              |
| NO2       | 0.97         | 0.21       | 0.95         | 1.23       | 0.50 | 0.70 | 0.90 | 1.40 | 1.60 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 0.56         | 0.36       | 0.45         | 1.99       | 0.07 | 0.14 | 0.45 | 1.17 | 1.71 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.18         | 0.82       | 0.98         | 1.83       | 0.30 | 0.40 | 1.00 | 2.64 | 5.10 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.36         | 0.22       | 0.30         | 1.82       | 0.09 | 0.11 | 0.27 | 0.81 | 1.02 | 100.0     | 0          | 92           | A          |              |

SK0002R Chopok Slovakia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.28         | 0.14       | 0.23         | 2.34       | 0.01 | 0.03 | 0.29 | 0.52 | 0.66 | 98.9      | 4          | 91           | U          |              |
| HNO3      | 0.09         | 0.05       | 0.08         | 1.58       | 0.03 | 0.04 | 0.08 | 0.17 | 0.37 | 98.9      | 0          | 91           | U          |              |
| NO2       | 0.99         | 0.25       | 0.96         | 1.25       | 0.70 | 0.70 | 1.00 | 1.50 | 2.10 | 97.8      | 0          | 90           | B          |              |
| SO4--     | 0.76         | 0.44       | 0.60         | 2.31       | 0.04 | 0.08 | 0.68 | 1.54 | 2.23 | 98.9      | 4          | 91           | A          |              |
| SO2       | 0.72         | 0.47       | 0.61         | 1.74       | 0.20 | 0.30 | 0.50 | 1.54 | 3.00 | 98.9      | 0          | 91           | A          |              |
| HNO3+NO3  | 0.38         | 0.16       | 0.32         | 1.96       | 0.03 | 0.06 | 0.37 | 0.61 | 0.89 | 98.9      | 4          | 91           | A          |              |

SK0002R Chopok Slovakia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.11         | 0.08       | 0.09         | 1.94       | 0.01 | 0.03 | 0.09 | 0.24 | 0.59 | 98.9      | 1          | 90           | U          |              |
| HNO3      | 0.06         | 0.02       | 0.05         | 1.49       | 0.02 | 0.03 | 0.05 | 0.09 | 0.14 | 97.8      | 0          | 89           | U          |              |
| NO2       | 0.86         | 0.25       | 0.84         | 1.28       | 0.60 | 0.60 | 0.80 | 1.30 | 2.00 | 98.9      | 0          | 90           | B          |              |
| SO4--     | 0.30         | 0.17       | 0.26         | 1.68       | 0.08 | 0.10 | 0.25 | 0.70 | 0.90 | 98.9      | 0          | 90           | A          |              |
| SO2       | 1.25         | 1.43       | 0.79         | 2.53       | 0.10 | 0.20 | 0.70 | 4.02 | 7.80 | 97.8      | 0          | 89           | A          |              |
| HNO3+NO3  | 0.17         | 0.09       | 0.15         | 1.66       | 0.02 | 0.07 | 0.14 | 0.29 | 0.63 | 97.8      | 1          | 89           | A          |              |

SK0004R Stara Lesna Slovakia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.34         | 0.19       | 0.30         | 1.74       | 0.07 | 0.11 | 0.29 | 0.67 | 1.08  | 100.0     | 0          | 90           | U          |              |
| HNO3      | 0.12         | 0.07       | 0.10         | 1.65       | 0.04 | 0.05 | 0.09 | 0.23 | 0.45  | 100.0     | 0          | 90           | U          |              |
| NO2       | 2.45         | 0.87       | 2.31         | 1.42       | 0.90 | 1.30 | 2.30 | 3.90 | 5.60  | 100.0     | 0          | 90           | B          |              |
| SO4--     | 1.11         | 0.60       | 0.97         | 1.67       | 0.22 | 0.44 | 0.87 | 2.29 | 3.04  | 100.0     | 0          | 90           | A          |              |
| SO2       | 3.48         | 2.38       | 2.87         | 1.85       | 0.80 | 1.20 | 2.70 | 7.65 | 14.10 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.51         | 0.27       | 0.45         | 1.68       | 0.14 | 0.18 | 0.44 | 1.12 | 1.27  | 100.0     | 0          | 90           | A          |              |

SK0004R Stara Lesna Slovakia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.39         | 0.23       | 0.34         | 1.82       | 0.02 | 0.14 | 0.34 | 0.91 | 1.19 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.08         | 0.07       | 0.06         | 1.79       | 0.02 | 0.03 | 0.06 | 0.17 | 0.54 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.45         | 0.40       | 1.40         | 1.29       | 0.80 | 0.90 | 1.40 | 2.10 | 3.10 | 98.9      | 0          | 91           | B          |              |
| SO4--     | 1.15         | 0.48       | 1.06         | 1.51       | 0.33 | 0.58 | 1.03 | 2.14 | 2.54 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.56         | 1.27       | 1.20         | 2.07       | 0.10 | 0.50 | 1.20 | 4.20 | 7.30 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.47         | 0.25       | 0.42         | 1.65       | 0.13 | 0.18 | 0.42 | 1.00 | 1.27 | 100.0     | 0          | 92           | A          |              |

SK0004R Stara Lesna Slovakia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.25         | 0.09       | 0.23         | 1.44       | 0.07 | 0.14 | 0.23 | 0.39 | 0.61 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.06         | 0.03       | 0.06         | 1.54       | 0.03 | 0.03 | 0.05 | 0.14 | 0.19 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.16         | 0.23       | 1.14         | 1.21       | 0.70 | 0.80 | 1.10 | 1.60 | 1.80 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 1.38         | 0.62       | 1.23         | 1.65       | 0.26 | 0.47 | 1.34 | 2.45 | 3.06 | 100.0     | 0          | 92           | A          |              |
| SO2       | 0.95         | 0.58       | 0.82         | 1.69       | 0.20 | 0.40 | 0.80 | 2.10 | 3.60 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.31         | 0.10       | 0.30         | 1.35       | 0.17 | 0.19 | 0.31 | 0.46 | 0.66 | 100.0     | 0          | 92           | A          |              |

SK0004R Stara Lesna Slovakia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.23         | 0.15       | 0.19         | 1.97       | 0.03 | 0.05 | 0.20 | 0.56 | 0.77 | 100.0     | 0          | 91           | U          |              |
| HNO3      | 0.05         | 0.02       | 0.04         | 1.60       | 0.02 | 0.02 | 0.04 | 0.10 | 0.13 | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.46         | 0.71       | 1.33         | 1.50       | 0.70 | 0.70 | 1.20 | 2.94 | 4.50 | 100.0     | 0          | 91           | B          |              |
| SO4--     | 0.81         | 0.50       | 0.68         | 1.84       | 0.19 | 0.25 | 0.69 | 1.77 | 2.41 | 100.0     | 0          | 91           | A          |              |
| SO2       | 1.62         | 1.58       | 1.16         | 2.20       | 0.30 | 0.35 | 1.05 | 4.55 | 9.20 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.27         | 0.16       | 0.23         | 1.80       | 0.05 | 0.08 | 0.24 | 0.61 | 0.90 | 100.0     | 0          | 91           | A          |              |

SK0005R Liesek Slovakia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%   | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.72         | 0.32       | 0.65         | 1.57       | 0.18 | 0.32 | 0.65  | 1.25  | 1.86  | 100.0     | 0          | 90           | U          |              |
| HNO3      | 0.08         | 0.05       | 0.08         | 1.54       | 0.03 | 0.04 | 0.07  | 0.14  | 0.30  | 100.0     | 0          | 90           | U          |              |
| NO2       | 3.19         | 1.58       | 2.88         | 1.55       | 1.10 | 1.65 | 2.70  | 6.35  | 8.40  | 100.0     | 0          | 90           | B          |              |
| SO4--     | 1.54         | 0.77       | 1.37         | 1.67       | 0.34 | 0.60 | 1.33  | 3.03  | 3.51  | 100.0     | 0          | 90           | A          |              |
| SO2       | 13.95        | 9.84       | 11.22        | 1.96       | 1.60 | 3.50 | 11.40 | 33.50 | 53.80 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.79         | 0.38       | 0.72         | 1.57       | 0.23 | 0.32 | 0.70  | 1.46  | 2.31  | 100.0     | 0          | 90           | A          |              |

SK0005R Liesek Slovakia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.65         | 0.34       | 0.58         | 1.60       | 0.23 | 0.25 | 0.58 | 1.20 | 2.15  | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.07         | 0.06       | 0.06         | 1.64       | 0.01 | 0.03 | 0.06 | 0.11 | 0.64  | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.74         | 0.49       | 1.68         | 1.29       | 0.90 | 1.10 | 1.70 | 2.48 | 4.00  | 100.0     | 0          | 92           | B          |              |
| SO4--     | 1.34         | 0.62       | 1.22         | 1.53       | 0.38 | 0.60 | 1.22 | 2.30 | 4.61  | 100.0     | 0          | 92           | A          |              |
| SO2       | 2.53         | 2.15       | 1.92         | 2.07       | 0.50 | 0.60 | 1.80 | 6.92 | 11.60 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.72         | 0.35       | 0.65         | 1.54       | 0.28 | 0.32 | 0.63 | 1.29 | 2.31  | 100.0     | 0          | 92           | A          |              |

SK0005R Liesek Slovakia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.32         | 0.15       | 0.28         | 1.78       | 0.02 | 0.11 | 0.30 | 0.55 | 0.67 | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.06         | 0.07       | 0.04         | 2.17       | 0.01 | 0.01 | 0.04 | 0.17 | 0.46 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.44         | 0.34       | 1.39         | 1.28       | 0.70 | 0.90 | 1.40 | 2.10 | 2.30 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 1.21         | 0.70       | 1.03         | 1.80       | 0.31 | 0.34 | 0.99 | 2.65 | 3.23 | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.11         | 0.86       | 0.91         | 1.80       | 0.30 | 0.40 | 0.80 | 2.60 | 5.80 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.38         | 0.16       | 0.34         | 1.59       | 0.13 | 0.15 | 0.36 | 0.62 | 0.78 | 100.0     | 0          | 92           | A          |              |

SK0005R Liesek Slovakia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.52         | 0.35       | 0.42         | 1.93       | 0.09 | 0.14 | 0.38 | 1.23 | 1.65  | 100.0     | 0          | 91           | U          |              |
| HNO3      | 0.06         | 0.04       | 0.05         | 1.71       | 0.02 | 0.03 | 0.04 | 0.14 | 0.25  | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.97         | 0.93       | 1.80         | 1.51       | 0.80 | 1.00 | 1.70 | 4.00 | 5.10  | 100.0     | 0          | 91           | B          |              |
| SO4--     | 1.21         | 0.65       | 1.05         | 1.69       | 0.36 | 0.42 | 1.01 | 2.39 | 3.54  | 100.0     | 0          | 91           | A          |              |
| SO2       | 2.53         | 3.17       | 1.56         | 2.53       | 0.20 | 0.40 | 1.30 | 8.87 | 20.70 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.57         | 0.35       | 0.48         | 1.81       | 0.12 | 0.20 | 0.46 | 1.28 | 1.69  | 100.0     | 0          | 91           | A          |              |

SK0006R Starina Slovakia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.23         | 0.12       | 0.21         | 1.72       | 0.02 | 0.09 | 0.20 | 0.50  | 0.52  | 100.0     | 0          | 90           | U          |              |
| HNO3      | 0.70         | 0.43       | 0.53         | 2.46       | 0.03 | 0.04 | 0.59 | 1.48  | 2.13  | 100.0     | 0          | 90           | U          |              |
| NO2       | 2.05         | 0.95       | 1.84         | 1.62       | 0.40 | 0.65 | 1.90 | 3.75  | 5.40  | 100.0     | 0          | 90           | B          |              |
| SO4--     | 1.70         | 1.07       | 1.39         | 1.96       | 0.17 | 0.36 | 1.34 | 3.75  | 5.22  | 100.0     | 0          | 90           | A          |              |
| SO2       | 7.39         | 4.66       | 5.53         | 2.49       | 0.30 | 0.50 | 6.60 | 16.20 | 18.30 | 100.0     | 0          | 90           | A          |              |
| HNO3+NO3  | 0.87         | 0.53       | 0.70         | 2.03       | 0.05 | 0.22 | 0.72 | 1.95  | 2.58  | 100.0     | 0          | 90           | A          |              |

SK0006R Starina Slovakia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.24         | 0.16       | 0.18         | 2.30       | 0.02 | 0.02 | 0.21 | 0.51 | 0.88  | 100.0     | 0          | 92           | U          |              |
| HNO3      | 0.25         | 0.23       | 0.19         | 2.05       | 0.03 | 0.05 | 0.17 | 0.62 | 1.30  | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.21         | 0.40       | 1.15         | 1.36       | 0.60 | 0.70 | 1.10 | 2.00 | 2.50  | 100.0     | 0          | 92           | B          |              |
| SO4--     | 0.98         | 0.64       | 0.80         | 1.98       | 0.07 | 0.23 | 0.84 | 2.22 | 3.72  | 100.0     | 0          | 92           | A          |              |
| SO2       | 1.63         | 1.46       | 1.29         | 1.91       | 0.30 | 0.56 | 1.20 | 3.86 | 11.20 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.49         | 0.34       | 0.40         | 1.87       | 0.05 | 0.13 | 0.41 | 1.00 | 2.18  | 100.0     | 0          | 92           | A          |              |

SK0006R Starina Slovakia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.21         | 0.14       | 0.16         | 2.54       | 0.01 | 0.01 | 0.19 | 0.41 | 0.74 | 98.9      | 5          | 91           | U          |              |
| HNO3      | 0.14         | 0.10       | 0.12         | 1.83       | 0.02 | 0.05 | 0.12 | 0.32 | 0.72 | 100.0     | 0          | 92           | U          |              |
| NO2       | 1.30         | 0.34       | 1.25         | 1.30       | 0.70 | 0.80 | 1.20 | 1.90 | 2.30 | 100.0     | 0          | 92           | B          |              |
| SO4--     | 1.08         | 0.72       | 0.85         | 2.16       | 0.04 | 0.21 | 1.02 | 2.36 | 4.16 | 98.9      | 1          | 91           | A          |              |
| SO2       | 1.08         | 0.68       | 0.92         | 1.75       | 0.30 | 0.36 | 0.90 | 2.58 | 3.70 | 100.0     | 0          | 92           | A          |              |
| HNO3+NO3  | 0.34         | 0.19       | 0.29         | 1.98       | 0.02 | 0.07 | 0.35 | 0.60 | 1.13 | 98.9      | 5          | 91           | A          |              |

SK0006R Starina Slovakia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO3-      | 0.19         | 0.12       | 0.15         | 2.13       | 0.01 | 0.04 | 0.17 | 0.42 | 0.53  | 100.0     | 1          | 91           | U          |              |
| HNO3      | 0.22         | 0.22       | 0.16         | 2.09       | 0.02 | 0.06 | 0.13 | 0.61 | 1.42  | 100.0     | 0          | 91           | U          |              |
| NO2       | 1.48         | 0.54       | 1.40         | 1.38       | 0.70 | 0.86 | 1.40 | 2.24 | 3.60  | 100.0     | 0          | 91           | B          |              |
| SO4--     | 1.01         | 0.67       | 0.81         | 2.04       | 0.08 | 0.23 | 0.88 | 2.31 | 3.60  | 100.0     | 0          | 91           | A          |              |
| SO2       | 2.99         | 3.08       | 2.17         | 2.12       | 0.40 | 0.80 | 1.95 | 8.83 | 20.70 | 100.0     | 0          | 91           | A          |              |
| HNO3+NO3  | 0.40         | 0.22       | 0.35         | 1.72       | 0.08 | 0.14 | 0.35 | 0.81 | 1.27  | 100.0     | 1          | 91           | A          |              |

TR0001R Cubuk II Turkey

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%    | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|-------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH4+      | 0.34         | 0.46       | 0.23         | 3.48       | -0.01 | -0.01 | 0.09 | 1.34 | 1.38 | 16.7      | 2          | 15           | U          |              |
| NO3-      | 0.11         | 0.10       | 0.07         | 3.07       | 0.01  | 0.01  | 0.05 | 0.26 | 0.30 | 16.7      | 0          | 15           | U          |              |
| SO4--     | 0.75         | 0.70       | 0.44         | 4.12       | 0.00  | 0.00  | 0.56 | 1.89 | 1.92 | 16.7      | 1          | 15           | A          |              |
| NH3+NH4+  | 0.72         | 0.47       | 0.55         | 2.45       | 0.04  | 0.04  | 0.60 | 1.63 | 1.73 | 16.7      | 0          | 15           | A          |              |
| HNO3+NO3  | 0.18         | 0.11       | 0.14         | 2.09       | 0.04  | 0.04  | 0.16 | 0.37 | 0.38 | 16.7      | 0          | 15           | A          |              |

TR0001R Cubuk II Turkey

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.41         | 0.26       | 0.32         | 2.54       | -0.08 | 0.02 | 0.37 | 0.84 | 1.31 | 82.6      | 1          | 76           | U          |              |
| NH4+      | 0.36         | 0.35       | 0.26         | 2.82       | -0.05 | 0.00 | 0.22 | 1.00 | 1.38 | 81.5      | 4          | 75           | U          |              |
| NO3-      | 0.10         | 0.12       | 0.08         | 2.71       | 0.00  | 0.00 | 0.06 | 0.25 | 0.85 | 82.6      | 6          | 76           | U          |              |
| HNO3      | 0.10         | 0.06       | 0.08         | 2.07       | 0.01  | 0.02 | 0.10 | 0.21 | 0.28 | 82.6      | 0          | 76           | U          |              |
| NO2       | 0.55         | 0.31       | 0.46         | 1.95       | 0.03  | 0.14 | 0.53 | 1.03 | 1.70 | 73.9      | 0          | 68           | D          |              |
| SO4--     | 0.48         | 0.49       | 0.27         | 3.47       | 0.00  | 0.03 | 0.30 | 1.53 | 1.92 | 82.6      | 1          | 76           | A          |              |
| SO2       | 1.02         | 1.13       | 0.62         | 2.85       | 0.04  | 0.10 | 0.62 | 3.18 | 6.60 | 81.5      | 0          | 75           | U          |              |
| NH3+NH4+  | 0.77         | 0.40       | 0.66         | 1.93       | -0.08 | 0.14 | 0.70 | 1.50 | 1.73 | 82.6      | 1          | 76           | A          |              |
| HNO3+NO3  | 0.20         | 0.14       | 0.17         | 1.95       | 0.02  | 0.04 | 0.19 | 0.38 | 0.90 | 82.6      | 0          | 76           | A          |              |

TR0001R Cubuk II Turkey

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.53         | 0.29       | 0.47         | 1.90       | -0.04 | 0.11 | 0.51 | 1.07 | 1.59 | 69.6      | 1          | 64           | U          |              |
| NH4+      | 0.23         | 0.23       | 0.16         | 2.80       | 0.00  | 0.01 | 0.14 | 0.66 | 1.20 | 75.0      | 1          | 69           | U          |              |
| NO3-      | 0.04         | 0.03       | 0.04         | 2.29       | -0.01 | 0.00 | 0.03 | 0.09 | 0.15 | 75.0      | 6          | 69           | U          |              |
| HNO3      | 0.06         | 0.05       | 0.06         | 2.03       | 0.00  | 0.01 | 0.06 | 0.17 | 0.30 | 73.9      | 2          | 68           | U          |              |
| NO2       | 0.40         | 0.22       | 0.36         | 1.61       | 0.10  | 0.17 | 0.35 | 0.67 | 1.71 | 76.1      | 0          | 70           | D          |              |
| SO4--     | 0.27         | 0.26       | 0.15         | 3.59       | 0.01  | 0.01 | 0.17 | 0.77 | 0.92 | 75.0      | 0          | 69           | A          |              |
| SO2       | 0.43         | 0.84       | 0.18         | 3.59       | 0.01  | 0.02 | 0.19 | 1.43 | 5.10 | 73.9      | 0          | 68           | U          |              |
| NH3+NH4+  | 0.73         | 0.39       | 0.59         | 2.15       | 0.03  | 0.10 | 0.71 | 1.48 | 1.66 | 75.0      | 0          | 69           | A          |              |
| HNO3+NO3  | 0.10         | 0.07       | 0.08         | 2.07       | -0.01 | 0.02 | 0.08 | 0.21 | 0.45 | 75.0      | 1          | 69           | A          |              |

TR0001R Cubuk II Turkey

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min   | 5%    | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|-------|-------|------|------|------|-----------|------------|--------------|------------|--------------|
| NH3       | 0.42         | 0.30       | 0.39         | 1.95       | -0.03 | -0.02 | 0.35 | 0.98 | 1.35 | 61.5      | 4          | 56           | U          |              |
| NH4+      | 0.40         | 0.29       | 0.32         | 2.32       | -0.01 | 0.04  | 0.34 | 0.93 | 1.21 | 58.2      | 1          | 53           | U          |              |
| NO3-      | 0.15         | 0.17       | 0.12         | 2.86       | -0.01 | 0.00  | 0.09 | 0.52 | 0.69 | 60.4      | 4          | 55           | U          |              |
| HNO3      | 0.09         | 0.08       | 0.07         | 2.49       | 0.00  | 0.01  | 0.07 | 0.26 | 0.37 | 61.5      | 2          | 56           | U          |              |
| NO2       | 0.85         | 0.78       | 0.55         | 2.83       | 0.02  | 0.09  | 0.50 | 2.51 | 3.18 | 60.4      | 0          | 55           | D          |              |
| SO4--     | 0.41         | 0.29       | 0.30         | 2.67       | 0.00  | 0.02  | 0.37 | 0.89 | 1.16 | 60.4      | 1          | 55           | A          |              |
| SO2       | 1.04         | 1.32       | 0.66         | 2.73       | 0.00  | 0.10  | 0.80 | 3.07 | 9.02 | 61.5      | 1          | 56           | U          |              |
| NH3+NH4+  | 0.80         | 0.46       | 0.64         | 2.26       | 0.02  | 0.09  | 0.69 | 1.57 | 1.94 | 61.5      | 0          | 56           | A          |              |
| HNO3+NO3  | 0.24         | 0.17       | 0.18         | 2.12       | 0.03  | 0.05  | 0.18 | 0.62 | 0.77 | 61.5      | 0          | 56           | A          |              |

YU0005R Kamenicki Vis Yugoslavia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.98         | 1.09       | 2.80         | 1.41       | 1.30 | 1.60 | 2.70 | 5.30  | 6.30  | 92.2      | 0          | 83           | B          |              |
| SO2       | 5.43         | 2.78       | 4.78         | 1.67       | 2.00 | 2.50 | 4.95 | 11.00 | 12.00 | 63.3      | 0          | 57           | D          |              |

YU0005R Kamenicki Vis Yugoslavia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 2.68         | 0.78       | 2.57         | 1.35       | 1.40 | 1.40 | 2.60 | 3.85 | 4.20  | 15.2      | 0          | 14           | B          |              |
| SO2       | 4.39         | 2.36       | 3.93         | 1.58       | 2.50 | 2.50 | 3.50 | 9.60 | 11.80 | 48.9      | 0          | 45           | D          |              |

YU0005R Kamenicki Vis Yugoslavia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 1.76         | 0.48       | 1.71         | 1.30       | 1.10 | 1.10 | 1.70 | 2.47 | 2.90 | 18.5      | 0          | 17           | B          |              |
| SO2       | 2.50         | 0.00       | 2.50         | 1.00       | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 18.5      | 0          | 17           | D          |              |

YU0005R Kamenicki Vis Yugoslavia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.36         | 1.74       | 2.97         | 1.65       | 1.10 | 1.30 | 2.80 | 7.20 | 7.60 | 65.9      | 0          | 60           | B          |              |
| SO2       | 2.50         | 0.00       | 2.50         | 1.00       | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 68.1      | 0          | 62           | D          |              |

YU0008R Zabljak Yugoslavia

December 1998 - February 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%   | Max   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|-------|-------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.86         | 2.20       | 3.33         | 1.74       | 1.00 | 1.20 | 3.30 | 7.54  | 13.80 | 86.7      | 0          | 78           | B          |              |
| SO2       | 4.84         | 2.86       | 4.16         | 1.71       | 2.50 | 2.50 | 3.45 | 10.78 | 12.90 | 96.7      | 0          | 87           | D          |              |

YU0008R Zabljak Yugoslavia

March 1999 - May 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.09         | 1.35       | 3.88         | 1.39       | 2.00 | 2.05 | 3.85 | 6.41 | 8.40 | 96.7      | 0          | 89           | B          |              |
| SO2       | 2.80         | 0.46       | 2.77         | 1.16       | 2.50 | 2.50 | 2.50 | 3.70 | 4.20 | 95.7      | 0          | 88           | D          |              |

YU0008R Zabljak Yugoslavia

June 1999 - August 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 3.13         | 0.90       | 3.00         | 1.33       | 1.40 | 1.80 | 3.00 | 4.86 | 6.00 | 91.3      | 0          | 84           | B          |              |
| SO2       | 2.75         | 0.60       | 2.70         | 1.19       | 2.50 | 2.50 | 2.50 | 4.16 | 5.40 | 96.7      | 0          | 89           | D          |              |

YU0008R Zabljak Yugoslavia

September 1999 - November 1999

| Component | Arit<br>mean | Arit<br>sd | Geom<br>mean | Geom<br>sd | Min  | 5%   | 50%  | 95%  | Max  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|--------------|------------|--------------|------------|------|------|------|------|------|-----------|------------|--------------|------------|--------------|
| NO2       | 4.38         | 1.31       | 4.17         | 1.38       | 1.40 | 2.38 | 4.20 | 6.80 | 7.30 | 86.8      | 0          | 79           | B          |              |
| SO2       | 2.69         | 0.60       | 2.65         | 1.17       | 2.50 | 2.50 | 2.50 | 3.30 | 6.60 | 95.6      | 0          | 87           | D          |              |



## **Annex 5**

### **Seasonal summaries of precipitation components**



| AT0002R                       |            | Illmitz |       | Austria |           |            |              |            |              |
|-------------------------------|------------|---------|-------|---------|-----------|------------|--------------|------------|--------------|
| December 1998 - February 1999 |            |         |       |         |           |            |              |            |              |
| Component                     | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.59       | 0.18    | 3.41  | 28.2    | 96.0      | 0          | 11           | A          |              |
| Ca++                          | 0.39       | 0.20    | 1.80  | 18.6    | 96.0      | 0          | 11           | A          |              |
| Cl-                           | 0.45       | 0.10    | 3.90  | 21.6    | 96.0      | 0          | 11           | A          |              |
| Mg++                          | 0.095      | 0.028   | 0.260 | 4.6     | 96.0      | 0          | 11           | A          |              |
| NO3-                          | 0.93       | 0.42    | 2.32  | 44.8    | 96.0      | 0          | 11           | A          |              |
| pH                            | 4.63       | 4.03    | 6.36  | 1120.3  | 100.0     | 0          | 14           | B          |              |
| K+                            | 0.14       | 0.03    | 1.35  | 7.0     | 96.0      | 0          | 11           | B          |              |
| Precip                        | -          | 0.0     | 15.4  | 48.0    | 100.0     | 76         | 90           |            |              |
| Na+                           | 0.35       | 0.05    | 2.30  | 17.0    | 96.0      | 0          | 11           | A          |              |
| SO4-- corr                    | 0.80       | 0.35    | 3.53  | 38.4    | 96.0      | 0          | 11           | A          |              |
| SO4--                         | 0.83       | 0.37    | 3.72  | 39.9    | 96.0      | 0          | 11           | A          |              |

| AT0002R               |            | Illmitz |       | Austria |           |            |              |            |              |
|-----------------------|------------|---------|-------|---------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |         |       |         |           |            |              |            |              |
| Component             | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.93       | 0.30    | 6.02  | 109.1   | 100.0     | 0          | 20           | A          |              |
| Ca++                  | 0.69       | 0.00    | 2.40  | 80.6    | 100.0     | 1          | 20           | A          |              |
| Cl-                   | 0.24       | 0.10    | 0.90  | 28.2    | 100.0     | 0          | 20           | A          |              |
| Mg++                  | 0.096      | 0.014   | 0.370 | 11.2    | 100.0     | 0          | 20           | A          |              |
| NO3-                  | 0.58       | 0.15    | 4.41  | 68.1    | 100.0     | 0          | 20           | A          |              |
| pH                    | 5.09       | 3.91    | 6.45  | 944.4   | 100.0     | 0          | 20           | B          |              |
| K+                    | 0.08       | 0.02    | 0.26  | 9.2     | 100.0     | 0          | 20           | B          |              |
| Precip                | -          | 0.0     | 16.9  | 117.0   | 100.0     | 72         | 92           |            |              |
| Na+                   | 0.12       | 0.02    | 0.38  | 14.3    | 100.0     | 0          | 20           | A          |              |
| SO4-- corr            | 1.05       | 0.23    | 4.26  | 123.5   | 100.0     | 0          | 20           | A          |              |
| SO4--                 | 1.07       | 0.24    | 4.27  | 124.7   | 100.0     | 0          | 20           | A          |              |

| AT0002R                 |            | Illmitz |       | Austria |           |            |              |            |              |
|-------------------------|------------|---------|-------|---------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |         |       |         |           |            |              |            |              |
| Component               | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.60       | 0.16    | 4.14  | 108.7   | 99.7      | 0          | 20           | A          |              |
| Ca++                    | 0.17       | 0.00    | 0.70  | 30.2    | 99.7      | 1          | 20           | A          |              |
| Cl-                     | 0.16       | 0.00    | 1.20  | 28.7    | 99.7      | 2          | 20           | A          |              |
| Mg++                    | 0.041      | 0.017   | 0.156 | 7.5     | 99.7      | 0          | 20           | A          |              |
| NO3-                    | 0.41       | 0.16    | 1.67  | 74.4    | 99.7      | 0          | 20           | A          |              |
| pH                      | 4.96       | 4.01    | 7.04  | 2012.5  | 100.0     | 0          | 22           | B          |              |
| K+                      | 0.08       | 0.01    | 0.54  | 15.1    | 99.7      | 0          | 20           | B          |              |
| Precip                  | -          | 0.0     | 32.8  | 181.9   | 100.0     | 70         | 92           |            |              |
| Na+                     | 0.09       | 0.02    | 0.70  | 17.0    | 99.7      | 0          | 20           | A          |              |
| SO4-- corr              | 0.64       | 0.20    | 2.65  | 115.8   | 99.7      | 0          | 20           | A          |              |
| SO4--                   | 0.65       | 0.21    | 2.66  | 117.7   | 99.7      | 0          | 20           | A          |              |

| AT0002R                        |            | Illmitz |       | Austria |           |            |              |            |              |
|--------------------------------|------------|---------|-------|---------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |         |       |         |           |            |              |            |              |
| Component                      | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.57       | 0.17    | 2.89  | 58.8    | 98.1      | 0          | 18           | A          |              |
| Ca++                           | 0.22       | 0.10    | 1.90  | 22.5    | 98.1      | 0          | 18           | A          |              |
| Cl-                            | 0.19       | 0.00    | 1.40  | 19.9    | 99.1      | 1          | 20           | A          |              |
| Mg++                           | 0.057      | 0.024   | 0.458 | 5.9     | 98.1      | 0          | 18           | A          |              |
| NO3-                           | 0.50       | 0.21    | 1.68  | 50.8    | 99.1      | 0          | 20           | A          |              |
| pH                             | 4.68       | 4.32    | 7.35  | 2140.2  | 99.6      | 0          | 22           | B          |              |
| K+                             | 0.10       | 0.03    | 1.17  | 10.1    | 98.1      | 0          | 18           | B          |              |
| Precip                         | -          | 0.0     | 29.2  | 102.6   | 100.0     | 66         | 91           |            |              |
| Na+                            | 0.09       | 0.00    | 0.77  | 8.8     | 98.1      | 1          | 18           | A          |              |
| SO4-- corr                     | 0.84       | 0.25    | 3.38  | 86.5    | 99.1      | 0          | 20           | A          |              |
| SO4--                          | 0.85       | 0.25    | 3.44  | 87.5    | 99.1      | 0          | 20           | A          |              |

AT0004R St. Koloman Austria

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.15       | 0.03  | 0.91  | 34.2   | 98.7      | 0          | 42 A                 |              |
| Ca++       | 0.55       | 0.20  | 4.90  | 126.5  | 98.7      | 0          | 42 A                 |              |
| Cl-        | 0.21       | 0.00  | 2.90  | 48.8   | 99.0      | 3          | 43 A                 |              |
| Mg++       | 0.151      | 0.040 | 0.860 | 35.0   | 98.7      | 0          | 42 A                 |              |
| NO3-       | 0.40       | 0.08  | 3.38  | 92.7   | 99.0      | 0          | 43 A                 |              |
| pH         | 5.32       | 3.98  | 7.68  | 1101.4 | 100.0     | 0          | 51 B                 |              |
| K+         | 0.02       | 0.00  | 0.22  | 5.5    | 98.7      | 0          | 42 B                 |              |
| Precip     | -          | 0.0   | 33.0  | 231.4  | 100.0     | 39         | 90                   |              |
| Na+        | 0.14       | 0.02  | 2.25  | 32.2   | 98.7      | 0          | 42 A                 |              |
| SO4-- corr | 0.19       | -0.03 | 0.89  | 44.5   | 99.0      | 1          | 43 A                 |              |
| SO4--      | 0.22       | 0.05  | 0.93  | 51.3   | 99.0      | 0          | 43 A                 |              |

AT0004R St. Koloman Austria

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.53       | 0.03  | 3.16  | 170.7 | 99.4      | 0          | 43 A                 |              |
| Ca++       | 0.46       | 0.00  | 2.90  | 147.1 | 99.4      | 3          | 43 A                 |              |
| Cl-        | 0.13       | 0.00  | 0.90  | 41.0  | 99.4      | 7          | 43 A                 |              |
| Mg++       | 0.102      | 0.025 | 0.370 | 32.6  | 99.4      | 0          | 43 A                 |              |
| NO3-       | 0.47       | 0.10  | 2.21  | 150.5 | 99.4      | 0          | 43 A                 |              |
| pH         | 5.55       | 4.38  | 7.76  | 899.3 | 100.0     | 0          | 50 B                 |              |
| K+         | 0.04       | 0.00  | 0.31  | 11.8  | 99.4      | 6          | 43 B                 |              |
| Precip     | -          | 0.0   | 32.0  | 319.9 | 100.0     | 42         | 92                   |              |
| Na+        | 0.20       | 0.01  | 0.79  | 65.4  | 99.4      | 0          | 43 A                 |              |
| SO4-- corr | 0.36       | 0.04  | 1.58  | 114.2 | 99.4      | 0          | 43 A                 |              |
| SO4--      | 0.38       | 0.07  | 1.62  | 120.7 | 99.4      | 0          | 43 A                 |              |

AT0004R St. Koloman Austria

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.68       | 0.12  | 5.21  | 281.4  | 99.6      | 0          | 48 A                 |              |
| Ca++       | 0.13       | 0.00  | 1.20  | 53.1   | 99.6      | 5          | 48 A                 |              |
| Cl-        | 0.13       | 0.00  | 0.90  | 52.2   | 99.5      | 6          | 47 A                 |              |
| Mg++       | 0.048      | 0.018 | 0.262 | 19.7   | 99.6      | 0          | 48 A                 |              |
| NO3-       | 0.37       | 0.15  | 1.51  | 152.1  | 99.5      | 0          | 47 A                 |              |
| pH         | 5.36       | 4.52  | 7.65  | 1801.1 | 100.0     | 0          | 52 B                 |              |
| K+         | 0.10       | 0.00  | 0.92  | 41.9   | 99.6      | 2          | 48 B                 |              |
| Precip     | -          | 0.0   | 32.9  | 414.8  | 100.0     | 40         | 92                   |              |
| Na+        | 0.10       | 0.00  | 0.80  | 43.2   | 99.6      | 1          | 48 A                 |              |
| SO4-- corr | 0.40       | 0.12  | 2.01  | 163.9  | 99.5      | 0          | 47 A                 |              |
| SO4--      | 0.41       | 0.16  | 2.02  | 169.2  | 99.5      | 0          | 47 A                 |              |

AT0004R St. Koloman Austria

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.40       | 0.01  | 1.65  | 89.6   | 99.6      | 1          | 37 A                 |              |
| Ca++       | 0.09       | 0.00  | 0.70  | 19.5   | 99.6      | 10         | 37 A                 |              |
| Cl-        | 0.09       | 0.00  | 0.80  | 20.1   | 99.8      | 7          | 38 A                 |              |
| Mg++       | 0.027      | 0.017 | 0.077 | 5.9    | 99.6      | 0          | 37 A                 |              |
| NO3-       | 0.51       | 0.08  | 1.69  | 114.1  | 99.8      | 0          | 38 A                 |              |
| pH         | 4.76       | 4.15  | 6.72  | 3861.0 | 100.0     | 0          | 40 B                 |              |
| K+         | 0.03       | 0.00  | 0.29  | 7.6    | 99.6      | 1          | 37 B                 |              |
| Precip     | -          | 0.0   | 22.1  | 224.0  | 100.0     | 51         | 91                   |              |
| Na+        | 0.06       | 0.01  | 0.41  | 12.8   | 99.6      | 0          | 37 A                 |              |
| SO4-- corr | 0.32       | 0.09  | 1.01  | 72.3   | 99.8      | 0          | 38 A                 |              |
| SO4--      | 0.34       | 0.09  | 1.02  | 75.0   | 99.8      | 0          | 38 A                 |              |

| AT0005R                       |            | Vorhegg |       | Austria |           |            |                      |              |
|-------------------------------|------------|---------|-------|---------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |         |       |         |           |            |                      |              |
| Component                     | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.19       | 0.09    | 0.74  | 14.6    | 79.6      | 0          | 8                    | A            |
| Ca++                          | 0.21       | 0.00    | 0.90  | 16.5    | 79.6      | 1          | 8                    | A            |
| Cl-                           | 0.20       | 0.10    | 0.60  | 15.3    | 79.6      | 0          | 8                    | A            |
| Mg++                          | 0.049      | 0.020   | 0.190 | 3.8     | 79.6      | 0          | 8                    | A            |
| NO3-                          | 0.40       | 0.12    | 1.63  | 30.8    | 79.6      | 0          | 8                    | A            |
| pH                            | 5.06       | 4.17    | 6.33  | 671.7   | 92.6      | 0          | 17                   | B            |
| K+                            | 0.03       | 0.01    | 0.08  | 2.6     | 79.6      | 0          | 8                    | B            |
| Precip                        | -          | 0.0     | 25.0  | 71.8    | 97.8      | 71         | 88                   |              |
| Na+                           | 0.09       | 0.01    | 0.20  | 6.9     | 79.6      | 0          | 8                    | A            |
| SO4-- corr                    | 0.36       | 0.13    | 1.07  | 28.2    | 79.6      | 0          | 8                    | A            |
| SO4--                         | 0.38       | 0.14    | 1.14  | 29.4    | 79.6      | 0          | 8                    | A            |

| AT0005R               |            | Vorhegg |       | Austria |           |            |                      |              |
|-----------------------|------------|---------|-------|---------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |         |       |         |           |            |                      |              |
| Component             | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.30       | 0.01    | 1.59  | 102.8   | 99.7      | 0          | 31                   | A            |
| Ca++                  | 0.39       | 0.00    | 1.40  | 134.8   | 99.7      | 2          | 31                   | A            |
| Cl-                   | 0.19       | 0.00    | 5.50  | 64.4    | 99.7      | 7          | 31                   | A            |
| Mg++                  | 0.053      | 0.005   | 0.580 | 18.1    | 99.7      | 1          | 31                   | A            |
| NO3-                  | 0.26       | 0.05    | 2.02  | 90.8    | 99.7      | 0          | 31                   | A            |
| pH                    | 5.10       | 4.16    | 6.30  | 2702.7  | 100.0     | 0          | 35                   | B            |
| K+                    | 0.04       | 0.00    | 0.74  | 12.9    | 99.7      | 4          | 31                   | B            |
| Precip                | -          | 0.0     | 33.5  | 343.3   | 100.0     | 56         | 92                   |              |
| Na+                   | 0.12       | 0.01    | 3.89  | 42.6    | 99.7      | 0          | 31                   | A            |
| SO4-- corr            | 0.39       | 0.00    | 2.41  | 132.8   | 99.7      | 1          | 31                   | A            |
| SO4--                 | 0.40       | 0.02    | 2.74  | 137.8   | 99.7      | 0          | 31                   | A            |

| AT0005R                 |            | Vorhegg |       | Austria |           |            |                      |              |
|-------------------------|------------|---------|-------|---------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |         |       |         |           |            |                      |              |
| Component               | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.33       | 0.01    | 3.88  | 137.8   | 99.7      | 2          | 47                   | A            |
| Ca++                    | 0.17       | 0.00    | 2.20  | 69.3    | 99.7      | 18         | 47                   | A            |
| Cl-                     | 0.07       | 0.00    | 1.10  | 28.0    | 99.6      | 16         | 46                   | A            |
| Mg++                    | 0.035      | 0.005   | 0.390 | 14.4    | 99.7      | 4          | 47                   | A            |
| NO3-                    | 0.23       | 0.03    | 2.25  | 96.7    | 99.6      | 0          | 46                   | A            |
| pH                      | 5.19       | 4.47    | 6.94  | 2686.1  | 100.0     | 0          | 51                   | B            |
| K+                      | 0.02       | 0.00    | 0.18  | 9.8     | 99.7      | 9          | 47                   | B            |
| Precip                  | -          | 0.0     | 33.8  | 412.1   | 100.0     | 41         | 92                   |              |
| Na+                     | 0.18       | 0.00    | 4.87  | 73.5    | 99.7      | 2          | 47                   | A            |
| SO4-- corr              | 0.37       | 0.00    | 2.79  | 152.3   | 99.6      | 0          | 46                   | A            |
| SO4--                   | 0.38       | 0.01    | 2.88  | 157.0   | 99.6      | 0          | 46                   | A            |

| AT0005R                        |            | Vorhegg |       | Austria |           |            |                      |              |
|--------------------------------|------------|---------|-------|---------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |         |       |         |           |            |                      |              |
| Component                      | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.18       | 0.01    | 1.07  | 34.0    | 99.6      | 1          | 32                   | A            |
| Ca++                           | 0.07       | 0.00    | 0.50  | 13.8    | 99.6      | 9          | 32                   | A            |
| Cl-                            | 0.10       | 0.00    | 0.80  | 18.9    | 99.4      | 11         | 31                   | A            |
| Mg++                           | 0.028      | 0.011   | 0.177 | 5.3     | 99.6      | 0          | 32                   | A            |
| NO3-                           | 0.22       | 0.04    | 1.34  | 41.5    | 99.4      | 0          | 31                   | A            |
| pH                             | 4.93       | 4.05    | 6.00  | 2227.1  | 100.0     | 0          | 35                   | B            |
| K+                             | 0.02       | 0.00    | 0.11  | 4.3     | 99.6      | 6          | 32                   | B            |
| Precip                         | -          | 0.0     | 33.4  | 187.7   | 100.0     | 56         | 91                   |              |
| Na+                            | 0.07       | 0.00    | 0.53  | 13.8    | 99.6      | 1          | 32                   | A            |
| SO4-- corr                     | 0.28       | 0.02    | 2.20  | 53.2    | 99.4      | 0          | 31                   | A            |
| SO4--                          | 0.30       | 0.03    | 2.24  | 56.2    | 99.4      | 0          | 31                   | A            |

CH0002R Payerne Switzerland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.41       | 0.11  | 2.01  | 58.7  | 97.6      | 0          | 28                   | A            |
| Ca++       | 0.14       | 0.03  | 3.21  | 20.1  | 97.6      | 4          | 28                   | A            |
| Cl-        | 0.40       | 0.03  | 2.56  | 56.7  | 97.6      | 1          | 28                   | A            |
| Mg++       | 0.031      | 0.005 | 0.221 | 4.3   | 97.6      | 5          | 28                   | B            |
| NO3-       | 0.24       | 0.04  | 1.77  | 34.0  | 97.6      | 0          | 28                   | A            |
| pH         | 5.24       | 4.48  | 6.29  | 817.4 | 99.3      | 0          | 32                   | A            |
| K+         | 0.02       | 0.00  | 0.12  | 2.4   | 88.3      | 7          | 26                   | B            |
| Precip     | -          | 0.0   | 15.2  | 141.3 | 98.9      | 52         | 89                   |              |
| Na+        | 0.21       | 0.01  | 1.49  | 29.5  | 97.6      | 2          | 28                   | A            |
| SO4-- corr | 0.21       | 0.05  | 2.47  | 29.7  | 97.6      | 0          | 28                   | A            |
| SO4--      | 0.23       | 0.05  | 2.52  | 32.2  | 97.6      | 0          | 28                   | A            |

CH0002R Payerne Switzerland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.58       | 0.20  | 2.99  | 139.7  | 97.9      | 0          | 32                   | A            |
| Ca++       | 0.41       | 0.12  | 3.24  | 98.3   | 97.3      | 0          | 31                   | A            |
| Cl-        | 0.17       | 0.06  | 0.75  | 41.9   | 97.9      | 0          | 32                   | A            |
| Mg++       | 0.031      | 0.005 | 0.269 | 7.5    | 97.9      | 1          | 32                   | B            |
| NO3-       | 0.36       | 0.11  | 2.18  | 86.3   | 97.9      | 0          | 32                   | A            |
| pH         | 5.32       | 4.43  | 7.29  | 1159.8 | 99.2      | 0          | 37                   | A            |
| K+         | 0.03       | 0.00  | 0.19  | 8.0    | 97.9      | 2          | 32                   | B            |
| Precip     | -          | 0.0   | 27.9  | 241.4  | 100.0     | 46         | 92                   |              |
| Na+        | 0.07       | 0.01  | 0.45  | 17.7   | 97.9      | 2          | 32                   | A            |
| SO4-- corr | 0.33       | 0.12  | 1.49  | 78.8   | 97.9      | 0          | 32                   | A            |
| SO4--      | 0.34       | 0.12  | 1.53  | 81.5   | 97.9      | 0          | 32                   | A            |

CH0002R Payerne Switzerland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.54       | 0.21  | 2.98  | 166.1  | 98.6      | 0          | 33                   | A            |
| Ca++       | 0.69       | 0.06  | 3.63  | 214.0  | 98.3      | 0          | 32                   | A            |
| Cl-        | 0.14       | 0.03  | 1.13  | 44.2   | 98.6      | 3          | 33                   | A            |
| Mg++       | 0.046      | 0.005 | 0.436 | 14.2   | 98.6      | 1          | 33                   | B            |
| NO3-       | 0.30       | 0.06  | 1.87  | 94.0   | 98.6      | 0          | 33                   | A            |
| pH         | 5.22       | 3.90  | 7.33  | 1851.8 | 99.7      | 0          | 38                   | A            |
| K+         | 0.04       | 0.00  | 0.38  | 11.2   | 98.6      | 3          | 33                   | B            |
| Precip     | -          | 0.0   | 26.2  | 309.8  | 100.0     | 50         | 92                   |              |
| Na+        | 0.11       | 0.02  | 0.69  | 34.5   | 98.6      | 0          | 33                   | A            |
| SO4-- corr | 0.42       | 0.09  | 3.13  | 131.0  | 98.6      | 0          | 33                   | A            |
| SO4--      | 0.43       | 0.09  | 3.19  | 133.9  | 98.6      | 0          | 33                   | A            |

CH0002R Payerne Switzerland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.34       | 0.09  | 2.17  | 106.4  | 98.9      | 0          | 25                   | A            |
| Ca++       | 0.20       | 0.03  | 1.30  | 62.4   | 98.9      | 6          | 25                   | A            |
| Cl-        | 0.14       | 0.03  | 0.90  | 42.9   | 98.9      | 4          | 25                   | A            |
| Mg++       | 0.026      | 0.005 | 0.124 | 8.1    | 98.9      | 6          | 25                   | B            |
| NO3-       | 0.25       | 0.08  | 1.32  | 77.2   | 98.9      | 0          | 25                   | A            |
| pH         | 4.96       | 4.40  | 6.40  | 3474.7 | 99.3      | 0          | 27                   | A            |
| K+         | 0.03       | 0.00  | 0.13  | 8.0    | 98.9      | 2          | 25                   | B            |
| Precip     | -          | 0.0   | 61.6  | 315.5  | 100.0     | 55         | 91                   |              |
| Na+        | 0.11       | 0.01  | 0.60  | 34.1   | 98.9      | 3          | 25                   | A            |
| SO4-- corr | 0.31       | 0.01  | 1.40  | 96.4   | 98.9      | 1          | 25                   | A            |
| SO4--      | 0.31       | 0.01  | 1.41  | 99.5   | 98.9      | 1          | 25                   | A            |

| CH0004R                       |            | Chaumont |       | Switzerland |           |            |              |            |              |
|-------------------------------|------------|----------|-------|-------------|-----------|------------|--------------|------------|--------------|
| December 1998 - February 1999 |            |          |       |             |           |            |              |            |              |
| Component                     | W.<br>mean | Min      | Max   | Dep         | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.12       | 0.01     | 0.85  | 34.0        | 99.1      | 1          | 35           | A          |              |
| Ca++                          | 0.08       | 0.01     | 2.33  | 22.2        | 99.1      | 8          | 35           | A          |              |
| Cl-                           | 0.39       | 0.06     | 2.66  | 105.7       | 99.1      | 0          | 35           | A          |              |
| Mg++                          | 0.028      | 0.005    | 0.194 | 7.6         | 99.1      | 9          | 35           | B          |              |
| NO3-                          | 0.19       | 0.04     | 2.08  | 50.5        | 99.1      | 0          | 35           | A          |              |
| pH                            | 4.91       | 3.85     | 6.46  | 3301.6      | 99.4      | 0          | 36           | A          |              |
| K+                            | 0.01       | 0.00     | 0.09  | 3.7         | 99.1      | 8          | 35           | B          |              |
| Precip                        | -          | 0.0      | 27.8  | 271.3       | 98.9      | 47         | 89           |            |              |
| Na+                           | 0.21       | 0.01     | 1.50  | 56.9        | 99.1      | 3          | 35           | A          |              |
| SO4-- corr                    | 0.16       | 0.01     | 1.18  | 42.6        | 99.1      | 1          | 35           | A          |              |
| SO4--                         | 0.18       | 0.01     | 1.20  | 47.6        | 99.1      | 1          | 35           | A          |              |

| CH0004R               |            | Chaumont |       | Switzerland |           |            |              |            |              |
|-----------------------|------------|----------|-------|-------------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |          |       |             |           |            |              |            |              |
| Component             | W.<br>mean | Min      | Max   | Dep         | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.31       | 0.05     | 1.47  | 100.8       | 98.9      | 0          | 42           | A          |              |
| Ca++                  | 0.29       | 0.03     | 2.58  | 95.8        | 95.4      | 1          | 41           | A          |              |
| Cl-                   | 0.17       | 0.06     | 0.98  | 56.6        | 98.9      | 0          | 42           | A          |              |
| Mg++                  | 0.030      | 0.005    | 0.254 | 9.8         | 98.9      | 14         | 42           | B          |              |
| NO3-                  | 0.26       | 0.06     | 1.58  | 85.0        | 98.9      | 0          | 42           | A          |              |
| pH                    | 5.05       | 4.22     | 7.00  | 2923.6      | 99.6      | 0          | 46           | A          |              |
| K+                    | 0.03       | 0.00     | 0.50  | 10.4        | 98.9      | 7          | 42           | B          |              |
| Precip                | -          | 0.0      | 25.6  | 325.7       | 100.0     | 41         | 92           |            |              |
| Na+                   | 0.09       | 0.01     | 0.67  | 30.3        | 98.9      | 2          | 42           | A          |              |
| SO4-- corr            | 0.30       | 0.08     | 1.38  | 98.1        | 98.9      | 0          | 42           | A          |              |
| SO4--                 | 0.31       | 0.08     | 1.41  | 100.9       | 98.9      | 0          | 42           | A          |              |

| CH0004R                 |            | Chaumont |       | Switzerland |           |            |              |            |              |
|-------------------------|------------|----------|-------|-------------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |          |       |             |           |            |              |            |              |
| Component               | W.<br>mean | Min      | Max   | Dep         | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.39       | 0.08     | 1.52  | 115.9       | 99.5      | 0          | 22           | A          |              |
| Ca++                    | 0.37       | 0.03     | 2.39  | 109.7       | 99.5      | 1          | 22           | A          |              |
| Cl-                     | 0.11       | 0.03     | 0.62  | 32.6        | 99.5      | 1          | 22           | A          |              |
| Mg++                    | 0.027      | 0.005    | 0.184 | 8.2         | 99.5      | 2          | 22           | B          |              |
| NO3-                    | 0.31       | 0.07     | 1.15  | 92.7        | 99.5      | 0          | 22           | A          |              |
| pH                      | 4.89       | 4.21     | 6.34  | 3861.3      | 99.9      | 0          | 24           | A          |              |
| K+                      | 0.04       | 0.01     | 0.33  | 11.7        | 99.5      | 0          | 22           | B          |              |
| Precip                  | -          | 0.0      | 52.6  | 298.3       | 100.0     | 67         | 92           |            |              |
| Na+                     | 0.08       | 0.01     | 0.35  | 24.4        | 99.5      | 2          | 22           | A          |              |
| SO4-- corr              | 0.39       | 0.09     | 1.51  | 116.7       | 99.5      | 0          | 22           | A          |              |
| SO4--                   | 0.40       | 0.09     | 1.52  | 118.7       | 99.5      | 0          | 22           | A          |              |

| CH0004R                        |            | Chaumont |       | Switzerland |           |            |              |            |              |
|--------------------------------|------------|----------|-------|-------------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |          |       |             |           |            |              |            |              |
| Component                      | W.<br>mean | Min      | Max   | Dep         | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.14       | 0.07     | 2.18  | 39.6        | 99.8      | 0          | 10           | A          |              |
| Ca++                           | 0.12       | 0.03     | 1.67  | 33.6        | 99.8      | 4          | 10           | A          |              |
| Cl-                            | 0.14       | 0.09     | 0.29  | 38.3        | 99.8      | 0          | 10           | A          |              |
| Mg++                           | 0.018      | 0.005    | 0.080 | 5.0         | 99.8      | 3          | 10           | B          |              |
| NO3-                           | 0.18       | 0.10     | 1.57  | 50.3        | 99.8      | 0          | 10           | A          |              |
| pH                             | 4.93       | 4.44     | 6.61  | 3197.7      | 100.0     | 0          | 11           | A          |              |
| K+                             | 0.02       | 0.00     | 0.26  | 4.8         | 99.8      | 1          | 10           | B          |              |
| Precip                         | -          | 0.0      | 76.9  | 273.3       | 100.0     | 80         | 91           |            |              |
| Na+                            | 0.09       | 0.06     | 0.16  | 24.3        | 99.8      | 0          | 10           | A          |              |
| SO4-- corr                     | 0.20       | 0.11     | 1.79  | 55.6        | 99.8      | 0          | 10           | A          |              |
| SO4--                          | 0.21       | 0.12     | 1.80  | 58.3        | 99.8      | 0          | 10           | A          |              |

CH0005R Rigi Switzerland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.16       | 0.01  | 1.89  | 28.3   | 98.2      | 2          | 28                   | A            |
| Ca++       | 0.09       | 0.01  | 0.39  | 15.2   | 98.2      | 4          | 28                   | A            |
| Cl-        | 0.21       | 0.03  | 2.49  | 36.2   | 98.2      | 0          | 28                   | A            |
| Mg++       | 0.012      | 0.005 | 0.108 | 2.1    | 98.2      | 11         | 28                   | B            |
| NO3-       | 0.26       | 0.03  | 2.06  | 46.0   | 98.2      | 0          | 28                   | A            |
| pH         | 4.86       | 3.87  | 5.72  | 2382.2 | 99.3      | 0          | 32                   | A            |
| K+         | 0.01       | 0.00  | 0.08  | 2.5    | 91.3      | 7          | 27                   | B            |
| Precip     | -          | 0.0   | 25.7  | 173.9  | 98.9      | 52         | 89                   |              |
| Na+        | 0.11       | 0.01  | 1.58  | 18.9   | 98.2      | 3          | 28                   | A            |
| SO4-- corr | 0.14       | 0.01  | 0.90  | 23.9   | 98.2      | 0          | 28                   | A            |
| SO4--      | 0.15       | 0.01  | 0.91  | 25.7   | 98.2      | 0          | 28                   | A            |

CH0005R Rigi Switzerland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.56       | 0.04  | 4.26  | 220.0  | 98.9      | 0          | 41                   | A            |
| Ca++       | 0.25       | 0.03  | 1.61  | 96.5   | 96.8      | 1          | 40                   | A            |
| Cl-        | 0.17       | 0.06  | 1.70  | 67.6   | 98.9      | 0          | 41                   | A            |
| Mg++       | 0.028      | 0.005 | 0.304 | 11.0   | 98.9      | 8          | 41                   | B            |
| NO3-       | 0.44       | 0.10  | 2.52  | 174.4  | 98.9      | 0          | 41                   | A            |
| pH         | 4.88       | 4.34  | 7.24  | 5224.6 | 99.8      | 0          | 47                   | A            |
| K+         | 0.04       | 0.00  | 0.39  | 15.8   | 98.9      | 4          | 41                   | B            |
| Precip     | -          | 0.0   | 45.1  | 394.7  | 95.7      | 38         | 88                   |              |
| Na+        | 0.10       | 0.01  | 1.10  | 40.8   | 98.9      | 4          | 41                   | A            |
| SO4-- corr | 0.40       | 0.04  | 2.29  | 156.3  | 98.9      | 0          | 41                   | A            |
| SO4--      | 0.41       | 0.05  | 2.35  | 160.0  | 98.9      | 0          | 41                   | A            |

CH0005R Rigi Switzerland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.54       | 0.10  | 2.06  | 291.1  | 99.6      | 0          | 46                   | A            |
| Ca++       | 0.33       | 0.03  | 1.98  | 175.3  | 99.6      | 4          | 46                   | A            |
| Cl-        | 0.09       | 0.03  | 0.67  | 45.7   | 99.6      | 10         | 46                   | A            |
| Mg++       | 0.023      | 0.005 | 0.124 | 12.2   | 99.6      | 10         | 46                   | B            |
| NO3-       | 0.32       | 0.06  | 1.46  | 172.7  | 99.6      | 0          | 46                   | A            |
| pH         | 4.94       | 4.36  | 6.78  | 6105.9 | 99.9      | 0          | 49                   | A            |
| K+         | 0.03       | 0.00  | 0.13  | 15.8   | 99.6      | 1          | 46                   | B            |
| Precip     | -          | 0.0   | 44.9  | 536.0  | 100.0     | 41         | 92                   |              |
| Na+        | 0.08       | 0.01  | 0.53  | 42.2   | 99.6      | 1          | 46                   | A            |
| SO4-- corr | 0.36       | 0.07  | 1.21  | 193.7  | 99.6      | 0          | 46                   | A            |
| SO4--      | 0.37       | 0.08  | 1.23  | 197.2  | 99.6      | 0          | 46                   | A            |

CH0005R Rigi Switzerland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.33       | 0.09  | 3.43  | 71.5   | 99.0      | 0          | 21                   | A            |
| Ca++       | 0.16       | 0.03  | 1.40  | 33.9   | 99.0      | 7          | 21                   | A            |
| Cl-        | 0.09       | 0.03  | 1.58  | 18.5   | 99.0      | 5          | 21                   | A            |
| Mg++       | 0.016      | 0.005 | 0.138 | 3.4    | 99.0      | 8          | 21                   | B            |
| NO3-       | 0.29       | 0.09  | 2.62  | 62.9   | 99.0      | 0          | 21                   | A            |
| pH         | 4.90       | 4.42  | 6.48  | 2711.2 | 99.8      | 0          | 24                   | A            |
| K+         | 0.02       | 0.00  | 0.19  | 4.9    | 99.0      | 2          | 21                   | B            |
| Precip     | -          | 0.0   | 40.3  | 214.7  | 91.2      | 58         | 83                   |              |
| Na+        | 0.06       | 0.01  | 1.06  | 12.1   | 99.0      | 3          | 21                   | A            |
| SO4-- corr | 0.24       | 0.11  | 1.20  | 51.7   | 99.0      | 0          | 21                   | A            |
| SO4--      | 0.25       | 0.11  | 1.22  | 53.0   | 99.0      | 0          | 21                   | A            |

CZ0001R Svratouch Czech Republic

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.46       | 0.31  | 1.06  | 88.3   | 84.3      | 0          | 10           | B          | W            |
| Ca++       | 0.25       | 0.07  | 1.16  | 48.6   | 76.3      | 0          | 9            | B          | W            |
| Cl-        | 0.59       | 0.17  | 2.03  | 114.8  | 84.3      | 0          | 10           | A          | W            |
| Mg++       | 0.069      | 0.020 | 0.230 | 13.4   | 76.3      | 0          | 9            | A          | W            |
| NO3-       | 0.64       | 0.41  | 1.01  | 123.1  | 84.3      | 0          | 10           | A          | W            |
| pH         | 4.59       | 4.32  | 5.35  | 4925.8 | 100.0     | 0          | 12           | A          | W            |
| K+         | 0.05       | 0.01  | 0.22  | 10.1   | 76.3      | 0          | 9            | A          | W            |
| Precip     | -          | 0.0   | 39.3  | 193.6  | 74.4      | 1          | 13           |            | W            |
| Na+        | 0.21       | 0.05  | 0.49  | 40.6   | 76.3      | 0          | 9            | A          | W            |
| SO4-- corr | -          | 0.31  | 0.98  | -      | -         | 0          | 10           | A          | W            |
| SO4--      | 0.58       | 0.32  | 1.10  | 111.7  | 84.3      | 0          | 10           | A          | W            |

CZ0001R Svratouch Czech Republic

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.72       | 0.38  | 2.52  | 108.9  | 98.3      | 0          | 11           | B          | W            |
| Ca++       | 0.26       | 0.02  | 1.41  | 39.0   | 98.3      | 0          | 11           | B          | W            |
| Cl-        | 0.19       | 0.08  | 0.75  | 29.1   | 98.3      | 0          | 11           | A          | W            |
| Mg++       | 0.040      | 0.010 | 0.160 | 6.1    | 98.3      | 0          | 11           | A          | W            |
| NO3-       | 0.52       | 0.30  | 1.87  | 78.2   | 98.3      | 0          | 11           | A          | W            |
| pH         | 4.77       | 4.12  | 5.67  | 2561.8 | 99.9      | 0          | 12           | A          | W            |
| K+         | 0.05       | 0.01  | 0.16  | 7.8    | 98.3      | 0          | 11           | A          | W            |
| Precip     | -          | 0.2   | 39.1  | 151.4  | 98.9      | 0          | 13           |            | W            |
| Na+        | 0.09       | 0.04  | 0.17  | 13.6   | 98.3      | 0          | 11           | A          | W            |
| SO4-- corr | -          | 0.26  | 2.92  | -      | -         | 0          | 11           | A          | W            |
| SO4--      | 0.66       | 0.27  | 2.93  | 100.2  | 98.3      | 0          | 11           | A          | W            |

CZ0001R Svratouch Czech Republic

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.92       | 0.38  | 4.43  | 312.1  | 96.7      | 0          | 11           | B          | W            |
| Ca++       | 0.20       | 0.09  | 0.49  | 66.8   | 100.0     | 0          | 12           | B          | W            |
| Cl-        | 0.16       | 0.08  | 0.80  | 53.0   | 96.7      | 0          | 11           | A          | W            |
| Mg++       | 0.037      | 0.020 | 0.170 | 12.6   | 100.0     | 0          | 12           | A          | W            |
| NO3-       | 0.35       | 0.10  | 0.45  | 119.8  | 100.0     | 0          | 12           | A          | W            |
| pH         | 5.05       | 4.71  | 7.06  | 2985.0 | 100.0     | 0          | 12           | A          | W            |
| K+         | 0.16       | 0.03  | 1.46  | 52.7   | 100.0     | 0          | 12           | A          | W            |
| Precip     | -          | 0.0   | 71.3  | 338.2  | 98.9      | 1          | 13           |            | W            |
| Na+        | 0.07       | 0.02  | 0.32  | 23.7   | 96.7      | 0          | 11           | A          | W            |
| SO4-- corr | -          | 0.06  | 0.80  | -      | -         | 0          | 12           | A          | W            |
| SO4--      | 0.62       | 0.08  | 0.80  | 207.9  | 100.0     | 0          | 12           | A          | W            |

CZ0001R Svratouch Czech Republic

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.57       | 0.34  | 0.90  | 68.2   | 95.0      | 0          | 8            | B          | W            |
| Ca++       | 0.18       | 0.08  | 1.09  | 21.4   | 95.0      | 0          | 8            | B          | W            |
| Cl-        | 0.88       | 0.33  | 2.97  | 105.5  | 95.0      | 0          | 8            | A          | W            |
| Mg++       | 0.038      | 0.010 | 0.310 | 4.5    | 95.0      | 0          | 8            | A          | W            |
| NO3-       | 0.47       | 0.03  | 0.99  | 57.2   | 95.0      | 0          | 8            | A          | W            |
| pH         | 4.53       | 4.12  | 5.08  | 3551.1 | 99.9      | 0          | 10           | A          | W            |
| K+         | 0.05       | 0.02  | 0.20  | 5.7    | 95.0      | 0          | 8            | A          | W            |
| Precip     | -          | 0.0   | 24.2  | 120.4  | 100.0     | 2          | 13           |            | W            |
| Na+        | 0.09       | 0.03  | 0.18  | 11.3   | 95.0      | 0          | 8            | A          | W            |
| SO4-- corr | -          | -0.14 | 0.82  | -      | -         | 1          | 8            | A          | W            |
| SO4--      | 0.41       | 0.08  | 0.83  | 49.0   | 95.0      | 0          | 8            | A          | W            |

CZ0003R Kosetice Czech Republic

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.26       | 0.05  | 1.02  | 29.5   | 98.5      | 0          | 43 B                 |              |
| Ca++       | 0.17       | 0.00  | 1.61  | 19.0   | 98.5      | 10         | 43 B                 |              |
| Cl-        | 0.61       | 0.10  | 3.90  | 70.2   | 98.3      | 0          | 42 A                 |              |
| Mg++       | 0.039      | 0.000 | 0.270 | 4.4    | 98.5      | 1          | 43 A                 |              |
| NO3-       | 0.55       | 0.16  | 2.30  | 63.1   | 98.3      | 0          | 42 A                 |              |
| pH         | 4.60       | 4.05  | 6.39  | 2896.5 | 99.0      | 0          | 45 A                 |              |
| K+         | 0.06       | 0.00  | 1.35  | 7.1    | 98.3      | 1          | 41 A                 |              |
| Precip     | -          | 0.0   | 8.3   | 114.5  | 98.9      | 39         | 89                   |              |
| Na+        | 0.29       | 0.03  | 2.13  | 32.9   | 98.5      | 0          | 43 A                 |              |
| SO4-- corr | 0.42       | 0.16  | 3.42  | 47.8   | 98.3      | 0          | 42 A                 |              |
| SO4--      | 0.44       | 0.17  | 3.42  | 50.4   | 98.3      | 0          | 42 A                 |              |

CZ0003R Kosetice Czech Republic

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.80       | 0.16  | 2.95  | 80.2   | 94.5      | 0          | 29 B                 |              |
| Ca++       | 0.31       | 0.06  | 1.29  | 31.1   | 95.0      | 0          | 29 B                 |              |
| Cl-        | 0.24       | 0.06  | 1.05  | 23.8   | 95.2      | 0          | 30 A                 |              |
| Mg++       | 0.049      | 0.020 | 0.190 | 5.0    | 95.0      | 0          | 29 A                 |              |
| NO3-       | 0.68       | 0.19  | 2.95  | 68.4   | 95.2      | 0          | 30 A                 |              |
| pH         | 4.61       | 3.90  | 5.76  | 2484.5 | 95.5      | 0          | 31 A                 |              |
| K+         | 0.17       | 0.02  | 1.57  | 16.5   | 95.0      | 0          | 29 A                 |              |
| Precip     | -          | 0.0   | 12.1  | 100.4  | 100.0     | 54         | 92                   |              |
| Na+        | 0.12       | 0.03  | 0.54  | 11.8   | 95.0      | 0          | 29 A                 |              |
| SO4-- corr | 0.81       | 0.21  | 2.42  | 81.5   | 95.2      | 0          | 30 A                 |              |
| SO4--      | 0.83       | 0.22  | 2.43  | 83.0   | 95.2      | 0          | 30 A                 |              |

CZ0003R Kosetice Czech Republic

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.56       | 0.16  | 2.35  | 117.6  | 89.1      | 0          | 23 B                 |              |
| Ca++       | 0.18       | 0.01  | 1.12  | 37.6   | 89.1      | 0          | 23 B                 |              |
| Cl-        | 0.15       | 0.05  | 1.34  | 30.9   | 89.1      | 0          | 23 A                 |              |
| Mg++       | 0.031      | 0.000 | 0.240 | 6.4    | 89.1      | 2          | 23 A                 |              |
| NO3-       | 0.34       | 0.19  | 2.25  | 70.7   | 89.1      | 0          | 23 A                 |              |
| pH         | 4.75       | 4.04  | 6.51  | 3699.2 | 89.7      | 0          | 25 A                 |              |
| K+         | 0.13       | 0.03  | 2.37  | 26.6   | 89.1      | 0          | 23 A                 |              |
| Precip     | -          | 0.0   | 28.0  | 208.0  | 100.0     | 55         | 92                   |              |
| Na+        | 0.08       | 0.00  | 0.39  | 15.7   | 89.1      | 1          | 23 A                 |              |
| SO4-- corr | 0.60       | 0.22  | 4.39  | 124.6  | 89.1      | 0          | 23 A                 |              |
| SO4--      | 0.61       | 0.23  | 4.56  | 126.0  | 89.1      | 0          | 23 A                 |              |

CZ0003R Kosetice Czech Republic

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.57       | 0.10  | 1.79  | 65.4   | 94.4      | 0          | 22 B                 |              |
| Ca++       | 0.19       | 0.04  | 0.97  | 22.2   | 94.4      | 0          | 22 B                 |              |
| Cl-        | 0.22       | 0.04  | 1.13  | 25.2   | 94.4      | 0          | 22 A                 |              |
| Mg++       | 0.041      | 0.010 | 0.300 | 4.6    | 94.4      | 0          | 22 A                 |              |
| NO3-       | 0.51       | 0.19  | 2.00  | 58.5   | 94.4      | 0          | 22 A                 |              |
| pH         | 4.64       | 3.95  | 6.94  | 2609.1 | 95.5      | 0          | 28 A                 |              |
| K+         | 0.12       | 0.05  | 0.89  | 13.3   | 94.4      | 0          | 22 A                 |              |
| Precip     | -          | 0.0   | 22.5  | 114.1  | 100.0     | 57         | 91                   |              |
| Na+        | 0.13       | 0.03  | 0.64  | 14.5   | 94.5      | 0          | 23 A                 |              |
| SO4-- corr | 0.64       | 0.10  | 1.51  | 73.6   | 94.4      | 0          | 22 A                 |              |
| SO4--      | 0.66       | 0.11  | 1.52  | 75.0   | 94.4      | 0          | 22 A                 |              |

|                               |            |       |         |        |           |            |              |            |              |
|-------------------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| DE0001R                       | Westerland |       | Germany |        |           |            |              |            |              |
| December 1998 - February 1999 |            |       |         |        |           |            |              |            |              |
| Component                     | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.47       | 0.00  | 2.96    | 68.5   | 97.7      | 1          | 49           | A          |              |
| Ca++                          | 1.22       | 0.10  | 16.90   | 178.3  | 98.1      | 1          | 50           | A          |              |
| Cl-                           | 17.01      | 1.60  | 152.70  | 2493.9 | 97.3      | 0          | 48           | A          |              |
| Mg++                          | 1.295      | 0.170 | 19.690  | 189.9  | 98.1      | 0          | 50           | A          |              |
| NO3-                          | 0.75       | 0.18  | 3.05    | 109.4  | 98.1      | 0          | 50           | A          |              |
| pH                            | 4.78       | 3.48  | 6.20    | 2403.3 | 97.7      | 0          | 52           | A          |              |
| K+                            | 0.44       | 0.00  | 7.26    | 65.1   | 98.1      | 1          | 50           | B          |              |
| Precip                        | -          | 0.0   | 15.7    | 145.8  | 98.9      | 31         | 89           |            |              |
| Na+                           | 8.97       | 1.45  | 81.69   | 1314.2 | 97.3      | 0          | 48           | A          |              |
| SO4-- corr                    | 0.61       | -0.29 | 15.11   | 88.9   | 98.1      | 1          | 50           | A          |              |
| SO4--                         | 1.41       | 0.47  | 18.95   | 207.2  | 98.1      | 0          | 50           | A          |              |

|                       |            |       |         |        |           |            |              |            |              |
|-----------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| DE0001R               | Westerland |       | Germany |        |           |            |              |            |              |
| March 1999 - May 1999 |            |       |         |        |           |            |              |            |              |
| Component             | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.69       | 0.04  | 5.21    | 84.8   | 98.1      | 0          | 31           | A          |              |
| Ca++                  | 0.65       | 0.00  | 4.60    | 80.1   | 98.1      | 1          | 31           | A          |              |
| Cl-                   | 3.73       | 0.60  | 60.80   | 460.5  | 98.1      | 0          | 31           | A          |              |
| Mg++                  | 0.339      | 0.080 | 4.400   | 41.9   | 98.1      | 0          | 31           | A          |              |
| NO3-                  | 0.80       | 0.14  | 4.01    | 99.2   | 98.1      | 0          | 31           | A          |              |
| pH                    | 4.92       | 3.98  | 7.26    | 1487.8 | 99.4      | 0          | 35           | A          |              |
| K+                    | 0.14       | 0.03  | 1.28    | 17.5   | 98.1      | 0          | 31           | B          |              |
| Precip                | -          | 0.0   | 19.0    | 123.5  | 100.0     | 54         | 92           |            |              |
| Na+                   | 2.09       | 0.47  | 32.50   | 258.1  | 98.1      | 0          | 31           | A          |              |
| SO4-- corr            | 0.68       | -0.10 | 3.49    | 84.1   | 98.1      | 1          | 31           | A          |              |
| SO4--                 | 0.86       | 0.19  | 6.21    | 106.1  | 98.1      | 0          | 31           | A          |              |

|                         |            |       |         |        |           |            |              |            |              |
|-------------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| DE0001R                 | Westerland |       | Germany |        |           |            |              |            |              |
| June 1999 - August 1999 |            |       |         |        |           |            |              |            |              |
| Component               | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.52       | 0.04  | 2.95    | 102.5  | 97.6      | 0          | 36           | A          |              |
| Ca++                    | 0.50       | 0.20  | 3.40    | 98.6   | 99.0      | 0          | 41           | A          |              |
| Cl-                     | 4.31       | 0.40  | 24.40   | 853.1  | 97.6      | 0          | 36           | A          |              |
| Mg++                    | 0.399      | 0.060 | 2.810   | 78.9   | 99.0      | 0          | 41           | A          |              |
| NO3-                    | 0.55       | 0.17  | 2.79    | 109.1  | 97.6      | 0          | 36           | A          |              |
| pH                      | 4.86       | 4.20  | 6.57    | 2741.1 | 99.4      | 0          | 43           | A          |              |
| K+                      | 0.15       | 0.04  | 1.19    | 29.4   | 99.0      | 0          | 41           | B          |              |
| Precip                  | -          | 0.0   | 33.1    | 197.9  | 100.0     | 44         | 92           |            |              |
| Na+                     | 2.32       | 0.18  | 13.20   | 459.5  | 98.8      | 0          | 40           | A          |              |
| SO4-- corr              | 0.61       | 0.20  | 23.76   | 120.7  | 97.6      | 0          | 36           | A          |              |
| SO4--                   | 0.82       | 0.31  | 25.71   | 161.6  | 97.6      | 0          | 36           | A          |              |

|                                |            |       |         |        |           |            |              |            |              |
|--------------------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| DE0001R                        | Westerland |       | Germany |        |           |            |              |            |              |
| September 1999 - November 1999 |            |       |         |        |           |            |              |            |              |
| Component                      | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.34       | 0.05  | 1.77    | 87.4   | 99.5      | 0          | 44           | A          |              |
| Ca++                           | 0.74       | 0.30  | 4.10    | 186.6  | 99.3      | 0          | 42           | A          |              |
| Cl-                            | 12.17      | 0.50  | 45.00   | 3087.0 | 99.5      | 0          | 44           | A          |              |
| Mg++                           | 0.774      | 0.050 | 2.680   | 196.5  | 99.3      | 0          | 42           | A          |              |
| NO3-                           | 0.46       | 0.08  | 1.84    | 116.3  | 99.5      | 0          | 44           | A          |              |
| pH                             | 4.99       | 3.88  | 6.59    | 2621.0 | 99.8      | 0          | 46           | A          |              |
| K+                             | 0.20       | 0.00  | 1.04    | 51.2   | 99.3      | 5          | 42           | B          |              |
| Precip                         | -          | 0.0   | 29.9    | 253.7  | 100.0     | 41         | 91           |            |              |
| Na+                            | 6.74       | 0.25  | 25.96   | 1708.6 | 99.3      | 0          | 42           | A          |              |
| SO4-- corr                     | 0.44       | 0.12  | 1.63    | 113.0  | 99.5      | 0          | 44           | A          |              |
| SO4--                          | 1.00       | 0.44  | 2.64    | 253.7  | 99.5      | 0          | 44           | A          |              |

DE0002R      Langenbrugge      Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.65       | 0.05  | 2.79  | 84.3   | 87.4      | 0          | 39                   | A            |
| Ca++       | 0.54       | 0.20  | 4.20  | 69.7   | 87.0      | 0          | 36                   | A            |
| Cl-        | 2.51       | 0.20  | 37.40 | 326.0  | 87.8      | 0          | 40                   | A            |
| Mg++       | 0.241      | 0.050 | 0.680 | 31.3   | 87.0      | 0          | 36                   | A            |
| NO3-       | 0.69       | 0.11  | 4.89  | 89.4   | 87.8      | 0          | 40                   | A            |
| pH         | 5.09       | 4.14  | 6.26  | 1060.7 | 89.3      | 0          | 42                   | A            |
| K+         | 0.08       | 0.00  | 0.67  | 10.1   | 87.0      | 5          | 36                   | B            |
| Precip     | -          | 0.0   | 14.2  | 121.3  | 96.7      | 27         | 87                   |              |
| Na+        | 1.26       | 0.09  | 5.38  | 162.9  | 87.0      | 0          | 36                   | A            |
| SO4-- corr | 0.66       | 0.10  | 12.86 | 85.8   | 87.8      | 0          | 40                   | A            |
| SO4--      | 0.79       | 0.29  | 14.60 | 102.3  | 87.8      | 0          | 40                   | A            |

DE0002R      Langenbrugge      Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.90       | 0.00  | 5.69  | 102.6 | 99.0      | 1          | 33                   | A            |
| Ca++       | 0.70       | 0.30  | 6.00  | 79.5  | 99.0      | 0          | 33                   | A            |
| Cl-        | 0.60       | 0.10  | 13.90 | 68.5  | 99.0      | 0          | 33                   | A            |
| Mg++       | 0.130      | 0.040 | 0.820 | 14.9  | 99.0      | 0          | 33                   | A            |
| NO3-       | 0.75       | 0.27  | 3.16  | 85.6  | 99.0      | 0          | 33                   | A            |
| pH         | 5.44       | 4.65  | 6.79  | 414.7 | 99.0      | 0          | 32                   | A            |
| K+         | 0.17       | 0.00  | 2.29  | 19.4  | 99.0      | 1          | 33                   | B            |
| Precip     | -          | 0.0   | 16.5  | 114.3 | 100.0     | 51         | 92                   |              |
| Na+        | 0.25       | 0.00  | 3.29  | 28.9  | 99.0      | 1          | 33                   | A            |
| SO4-- corr | 0.63       | 0.27  | 3.97  | 71.6  | 99.0      | 0          | 33                   | A            |
| SO4--      | 0.66       | 0.29  | 4.04  | 75.9  | 99.0      | 0          | 33                   | A            |

DE0002R      Langenbrugge      Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.81       | 0.26  | 7.41  | 103.2 | 98.9      | 0          | 32                   | A            |
| Ca++       | 0.62       | 0.20  | 11.40 | 78.2  | 99.2      | 0          | 33                   | A            |
| Cl-        | 0.44       | 0.10  | 35.30 | 56.5  | 99.2      | 0          | 33                   | A            |
| Mg++       | 0.147      | 0.060 | 3.710 | 18.6  | 99.2      | 0          | 33                   | A            |
| NO3-       | 0.69       | 0.41  | 4.34  | 87.2  | 99.2      | 0          | 33                   | A            |
| pH         | 5.34       | 4.28  | 6.81  | 573.2 | 99.5      | 0          | 33                   | A            |
| K+         | 0.10       | 0.02  | 5.94  | 12.9  | 99.2      | 0          | 33                   | B            |
| Precip     | -          | 0.0   | 15.8  | 126.9 | 100.0     | 53         | 92                   |              |
| Na+        | 0.19       | 0.02  | 7.36  | 24.8  | 99.2      | 0          | 33                   | A            |
| SO4-- corr | 0.66       | 0.32  | 7.17  | 83.7  | 99.2      | 0          | 33                   | A            |
| SO4--      | 0.68       | 0.33  | 7.79  | 86.5  | 99.2      | 0          | 33                   | A            |

DE0002R      Langenbrugge      Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.56       | 0.07  | 11.36 | 47.9  | 97.2      | 0          | 30                   | A            |
| Ca++       | 0.70       | 0.30  | 4.40  | 60.5  | 96.6      | 0          | 27                   | A            |
| Cl-        | 0.60       | 0.10  | 10.60 | 52.1  | 97.2      | 0          | 30                   | A            |
| Mg++       | 0.171      | 0.040 | 1.270 | 14.8  | 96.6      | 0          | 27                   | A            |
| NO3-       | 0.66       | 0.19  | 4.71  | 56.6  | 97.2      | 0          | 30                   | A            |
| pH         | 5.37       | 4.36  | 6.82  | 365.2 | 97.4      | 0          | 27                   | A            |
| K+         | 0.08       | 0.00  | 0.71  | 6.8   | 96.6      | 4          | 27                   | B            |
| Precip     | -          | 0.0   | 8.5   | 86.2  | 100.0     | 42         | 91                   |              |
| Na+        | 0.29       | 0.00  | 3.79  | 24.6  | 96.6      | 1          | 27                   | A            |
| SO4-- corr | 0.58       | -0.04 | 5.01  | 50.0  | 97.2      | 1          | 30                   | A            |
| SO4--      | 0.62       | 0.20  | 5.33  | 53.2  | 97.2      | 0          | 30                   | A            |

DE0003R      Schauinsland      Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.22       | 0.00  | 1.46  | 116.7  | 87.1      | 1          | 35           | A          |              |
| Ca++       | 0.26       | 0.10  | 2.50  | 137.9  | 87.1      | 0          | 35           | A          |              |
| Cl-        | 0.64       | 0.10  | 35.00 | 338.5  | 87.1      | 0          | 35           | A          |              |
| Mg++       | 0.076      | 0.020 | 0.610 | 40.1   | 87.0      | 2          | 35           | A          |              |
| NO3-       | 0.33       | 0.06  | 2.33  | 175.7  | 87.1      | 0          | 35           | A          |              |
| pH         | 4.90       | 4.13  | 6.51  | 6576.5 | 87.3      | 0          | 37           | A          |              |
| K+         | 0.07       | 0.00  | 0.65  | 38.3   | 87.2      | 8          | 36           | B          |              |
| Precip     | -          | 0.0   | 60.0  | 484.9  | 91.1      | 33         | 82           |            |              |
| Na+        | 0.33       | 0.00  | 6.90  | 172.1  | 87.1      | 1          | 35           | A          |              |
| SO4-- corr | 0.36       | 0.13  | 1.79  | 189.3  | 87.1      | 0          | 35           | A          |              |
| SO4--      | 0.39       | 0.14  | 1.95  | 207.0  | 87.1      | 0          | 35           | A          |              |

DE0003R      Schauinsland      Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.52       | 0.11  | 2.35  | 282.8  | 99.5      | 0          | 47           | A          |              |
| Ca++       | 0.37       | 0.00  | 2.40  | 196.6  | 99.5      | 1          | 47           | A          |              |
| Cl-        | 0.28       | 0.10  | 1.60  | 153.0  | 99.5      | 0          | 47           | A          |              |
| Mg++       | 0.038      | 0.005 | 0.170 | 20.4   | 99.5      | 5          | 47           | A          |              |
| NO3-       | 0.41       | 0.12  | 2.00  | 223.1  | 99.5      | 0          | 47           | A          |              |
| pH         | 5.02       | 4.13  | 6.59  | 5112.1 | 99.9      | 0          | 51           | A          |              |
| K+         | 0.05       | 0.00  | 1.01  | 29.9   | 99.5      | 5          | 47           | B          |              |
| Precip     | -          | 0.0   | 45.0  | 538.8  | 98.9      | 35         | 91           |            |              |
| Na+        | 0.16       | 0.00  | 0.90  | 87.8   | 99.5      | 2          | 47           | A          |              |
| SO4-- corr | 0.46       | 0.17  | 1.45  | 245.9  | 99.5      | 0          | 47           | A          |              |
| SO4--      | 0.47       | 0.18  | 1.52  | 254.4  | 99.5      | 0          | 47           | A          |              |

DE0003R      Schauinsland      Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.60       | 0.06  | 3.20  | 306.5  | 99.5      | 0          | 40           | A          |              |
| Ca++       | 0.35       | 0.00  | 1.70  | 182.0  | 99.5      | 1          | 40           | A          |              |
| Cl-        | 0.19       | 0.10  | 2.00  | 97.8   | 99.5      | 0          | 40           | A          |              |
| Mg++       | 0.042      | 0.005 | 0.370 | 21.4   | 99.5      | 2          | 40           | A          |              |
| NO3-       | 0.35       | 0.10  | 2.15  | 178.4  | 99.5      | 0          | 40           | A          |              |
| pH         | 4.96       | 4.29  | 7.12  | 5616.9 | 99.5      | 0          | 40           | A          |              |
| K+         | 0.10       | 0.00  | 1.28  | 52.1   | 99.5      | 4          | 40           | B          |              |
| Precip     | -          | 0.0   | 71.9  | 513.7  | 100.0     | 37         | 92           |            |              |
| Na+        | 0.10       | 0.00  | 1.34  | 50.3   | 99.5      | 2          | 40           | A          |              |
| SO4-- corr | 0.50       | 0.21  | 1.79  | 256.1  | 99.5      | 0          | 40           | A          |              |
| SO4--      | 0.51       | 0.22  | 1.90  | 262.8  | 99.5      | 0          | 40           | A          |              |

DE0003R      Schauinsland      Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.17       | 0.00  | 3.22  | 69.6   | 98.0      | 1          | 32           | A          |              |
| Ca++       | 0.31       | 0.10  | 9.80  | 129.0  | 99.3      | 0          | 33           | A          |              |
| Cl-        | 0.28       | 0.10  | 2.30  | 116.9  | 99.3      | 0          | 33           | A          |              |
| Mg++       | 0.057      | 0.005 | 0.790 | 23.8   | 99.3      | 3          | 33           | A          |              |
| NO3-       | 0.28       | 0.08  | 3.63  | 116.6  | 99.3      | 0          | 33           | A          |              |
| pH         | 4.95       | 4.25  | 7.38  | 4692.1 | 99.7      | 0          | 35           | A          |              |
| K+         | 0.07       | 0.00  | 2.31  | 28.8   | 98.0      | 3          | 32           | B          |              |
| Precip     | -          | 0.0   | 53.7  | 417.9  | 100.0     | 49         | 91           |            |              |
| Na+        | 0.16       | 0.00  | 1.59  | 67.3   | 99.3      | 3          | 33           | A          |              |
| SO4-- corr | 0.35       | 0.13  | 2.84  | 146.6  | 99.3      | 0          | 33           | A          |              |
| SO4--      | 0.37       | 0.13  | 2.97  | 153.1  | 99.3      | 0          | 33           | A          |              |

DE0004R Deuselbach Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.31       | 0.05  | 2.10  | 49.0   | 98.8      | 0          | 51                   | A            |
| Ca++       | 0.34       | 0.10  | 3.40  | 52.9   | 99.0      | 0          | 51                   | A            |
| Cl-        | 0.93       | 0.00  | 5.30  | 143.9  | 98.8      | 1          | 51                   | A            |
| Mg++       | 0.127      | 0.020 | 1.230 | 19.7   | 99.0      | 0          | 51                   | A            |
| NO3-       | 0.46       | 0.08  | 3.38  | 71.0   | 98.8      | 0          | 51                   | A            |
| pH         | 4.88       | 3.62  | 5.62  | 2075.1 | 97.3      | 0          | 41                   | A            |
| K+         | 0.04       | 0.00  | 0.59  | 6.5    | 99.0      | 9          | 51                   | B            |
| Precip     | -          | 0.0   | 12.9  | 155.5  | 100.0     | 23         | 90                   |              |
| Na+        | 0.46       | 0.00  | 2.86  | 71.1   | 99.0      | 1          | 51                   | A            |
| SO4-- corr | 0.50       | 0.20  | 3.09  | 78.6   | 98.8      | 0          | 51                   | A            |
| SO4--      | 0.56       | 0.22  | 3.42  | 87.4   | 98.8      | 0          | 51                   | A            |

DE0004R Deuselbach Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.69       | 0.22  | 5.53  | 100.1  | 99.4      | 0          | 44                   | A            |
| Ca++       | 0.38       | 0.10  | 3.30  | 55.4   | 99.5      | 0          | 44                   | A            |
| Cl-        | 0.47       | 0.10  | 4.50  | 69.1   | 99.6      | 0          | 45                   | A            |
| Mg++       | 0.083      | 0.020 | 0.730 | 12.0   | 99.5      | 0          | 44                   | A            |
| NO3-       | 0.56       | 0.23  | 4.29  | 81.6   | 99.6      | 0          | 45                   | A            |
| pH         | 5.06       | 3.88  | 6.45  | 1259.9 | 99.0      | 0          | 39                   | A            |
| K+         | 0.09       | 0.00  | 0.49  | 13.5   | 99.5      | 2          | 44                   | B            |
| Precip     | -          | 0.0   | 17.0  | 145.5  | 100.0     | 41         | 92                   |              |
| Na+        | 0.24       | 0.03  | 2.43  | 35.5   | 99.6      | 0          | 45                   | A            |
| SO4-- corr | 0.55       | 0.26  | 4.21  | 79.8   | 99.6      | 0          | 45                   | A            |
| SO4--      | 0.58       | 0.27  | 4.48  | 83.8   | 99.6      | 0          | 45                   | A            |

DE0004R Deuselbach Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.56       | 0.09  | 3.19  | 94.7   | 99.4      | 0          | 37                   | A            |
| Ca++       | 0.49       | 0.10  | 4.50  | 82.1   | 99.6      | 0          | 38                   | A            |
| Cl-        | 0.31       | 0.10  | 6.30  | 51.1   | 99.6      | 0          | 38                   | A            |
| Mg++       | 0.077      | 0.020 | 0.850 | 12.9   | 99.6      | 0          | 38                   | A            |
| NO3-       | 0.52       | 0.14  | 2.75  | 87.2   | 99.6      | 0          | 38                   | A            |
| pH         | 4.80       | 4.13  | 6.21  | 2651.6 | 99.2      | 0          | 35                   | A            |
| K+         | 0.06       | 0.00  | 0.79  | 10.3   | 99.6      | 2          | 38                   | B            |
| Precip     | -          | 0.0   | 19.7  | 167.7  | 100.0     | 47         | 92                   |              |
| Na+        | 0.14       | 0.00  | 1.78  | 23.4   | 99.6      | 1          | 38                   | A            |
| SO4-- corr | 0.61       | 0.00  | 2.17  | 102.7  | 99.6      | 1          | 38                   | A            |
| SO4--      | 0.63       | 0.22  | 2.18  | 105.6  | 99.6      | 0          | 38                   | A            |

DE0004R Deuselbach Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.22       | 0.00  | 1.45  | 31.6   | 99.3      | 1          | 38                   | A            |
| Ca++       | 0.32       | 0.10  | 2.70  | 47.6   | 99.3      | 0          | 38                   | A            |
| Cl-        | 0.38       | 0.00  | 3.50  | 54.9   | 99.3      | 1          | 38                   | A            |
| Mg++       | 0.053      | 0.005 | 0.330 | 7.7    | 99.3      | 1          | 38                   | A            |
| NO3-       | 0.40       | 0.07  | 2.10  | 58.2   | 99.3      | 0          | 38                   | A            |
| pH         | 4.74       | 4.05  | 7.45  | 2685.1 | 99.1      | 0          | 37                   | A            |
| K+         | 0.03       | 0.00  | 0.22  | 4.0    | 99.3      | 8          | 38                   | B            |
| Precip     | -          | 0.0   | 18.2  | 146.3  | 100.0     | 43         | 91                   |              |
| Na+        | 0.19       | 0.00  | 1.75  | 27.4   | 99.3      | 3          | 38                   | A            |
| SO4-- corr | 0.43       | 0.16  | 1.95  | 62.2   | 99.3      | 0          | 38                   | A            |
| SO4--      | 0.45       | 0.17  | 2.02  | 65.8   | 99.3      | 0          | 38                   | A            |

DE0005R Brotjacklriegel Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.66       | 0.08  | 2.47  | 149.3  | 88.5      | 0          | 41           | A          |              |
| Ca++       | 0.28       | 0.10  | 1.00  | 64.3   | 88.5      | 0          | 41           | A          |              |
| Cl-        | 0.63       | 0.20  | 4.20  | 143.5  | 88.5      | 0          | 41           | A          |              |
| Mg++       | 0.067      | 0.005 | 0.220 | 15.2   | 88.5      | 3          | 41           | A          |              |
| NO3-       | 0.75       | 0.32  | 2.54  | 170.0  | 88.5      | 0          | 41           | A          |              |
| pH         | 4.61       | 4.08  | 6.19  | 5519.9 | 88.7      | 0          | 43           | A          |              |
| K+         | 0.23       | 0.00  | 2.52  | 51.3   | 88.5      | 9          | 41           | B          |              |
| Precip     | -          | 0.0   | 30.2  | 226.6  | 100.0     | 38         | 90           |            |              |
| Na+        | 0.35       | 0.05  | 2.58  | 80.2   | 88.5      | 0          | 41           | A          |              |
| SO4-- corr | 0.60       | 0.25  | 2.39  | 136.7  | 88.5      | 0          | 41           | A          |              |
| SO4--      | 0.64       | 0.26  | 2.59  | 144.2  | 88.5      | 0          | 41           | A          |              |

DE0005R Brotjacklriegel Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.87       | 0.13  | 3.76  | 220.3  | 99.7      | 0          | 41           | A          |              |
| Ca++       | 0.33       | 0.00  | 4.80  | 82.8   | 99.7      | 2          | 41           | A          |              |
| Cl-        | 0.18       | 0.10  | 2.30  | 46.6   | 99.7      | 0          | 41           | A          |              |
| Mg++       | 0.031      | 0.005 | 0.280 | 8.0    | 99.7      | 6          | 41           | A          |              |
| NO3-       | 0.63       | 0.13  | 2.92  | 158.4  | 99.7      | 0          | 41           | A          |              |
| pH         | 4.90       | 3.99  | 6.80  | 3218.8 | 99.9      | 0          | 42           | A          |              |
| K+         | 0.12       | 0.00  | 1.05  | 31.0   | 99.7      | 3          | 41           | B          |              |
| Precip     | -          | 0.0   | 23.3  | 253.1  | 100.0     | 47         | 92           |            |              |
| Na+        | 0.09       | 0.00  | 1.58  | 21.9   | 99.7      | 4          | 41           | A          |              |
| SO4-- corr | 0.60       | 0.21  | 3.55  | 151.0  | 99.7      | 0          | 41           | A          |              |
| SO4--      | 0.61       | 0.21  | 3.58  | 153.4  | 99.7      | 0          | 41           | A          |              |

DE0005R Brotjacklriegel Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.54       | 0.02  | 3.02  | 116.8  | 99.9      | 0          | 35           | A          |              |
| Ca++       | 0.26       | 0.00  | 1.10  | 56.4   | 99.9      | 3          | 35           | A          |              |
| Cl-        | 0.14       | 0.10  | 1.80  | 30.7   | 99.9      | 0          | 35           | A          |              |
| Mg++       | 0.029      | 0.005 | 0.360 | 6.2    | 99.9      | 10         | 35           | A          |              |
| NO3-       | 0.42       | 0.15  | 2.53  | 90.2   | 99.9      | 0          | 35           | A          |              |
| pH         | 4.86       | 4.07  | 6.51  | 2999.0 | 99.9      | 0          | 35           | A          |              |
| K+         | 0.13       | 0.00  | 0.97  | 27.1   | 99.9      | 1          | 35           | B          |              |
| Precip     | -          | 0.0   | 25.2  | 215.2  | 100.0     | 54         | 92           |            |              |
| Na+        | 0.06       | 0.00  | 1.29  | 13.7   | 99.9      | 4          | 35           | A          |              |
| SO4-- corr | 0.46       | 0.02  | 2.37  | 99.2   | 99.9      | 0          | 35           | A          |              |
| SO4--      | 0.47       | 0.13  | 2.40  | 100.6  | 99.9      | 0          | 35           | A          |              |

DE0005R Brotjacklriegel Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.67       | 0.02  | 4.31  | 115.8  | 99.3      | 0          | 34           | A          |              |
| Ca++       | 0.30       | 0.10  | 2.40  | 52.7   | 98.9      | 0          | 32           | A          |              |
| Cl-        | 0.27       | 0.10  | 1.50  | 47.4   | 99.3      | 0          | 34           | A          |              |
| Mg++       | 0.034      | 0.005 | 0.160 | 5.9    | 98.9      | 5          | 32           | A          |              |
| NO3-       | 0.68       | 0.12  | 4.04  | 117.9  | 99.3      | 0          | 34           | A          |              |
| pH         | 4.76       | 3.74  | 6.24  | 2996.2 | 99.5      | 0          | 35           | A          |              |
| K+         | 0.20       | 0.00  | 0.89  | 35.0   | 98.9      | 1          | 32           | B          |              |
| Precip     | -          | 0.0   | 20.0  | 173.0  | 100.0     | 50         | 91           |            |              |
| Na+        | 0.17       | 0.00  | 1.18  | 28.7   | 98.9      | 7          | 32           | A          |              |
| SO4-- corr | 0.60       | 0.16  | 3.78  | 102.9  | 99.3      | 0          | 34           | A          |              |
| SO4--      | 0.61       | 0.16  | 3.85  | 105.8  | 99.3      | 0          | 34           | A          |              |

DE0007R Neuglobsow Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.58       | 0.12  | 2.21  | 65.1   | 97.7      | 0          | 36                   | A            |
| Ca++       | 0.36       | 0.00  | 1.70  | 41.2   | 97.7      | 1          | 36                   | A            |
| Cl-        | 1.97       | 0.10  | 29.40 | 222.6  | 97.7      | 0          | 36                   | A            |
| Mg++       | 0.144      | 0.005 | 1.690 | 16.2   | 97.7      | 1          | 36                   | A            |
| NO3-       | 0.64       | 0.15  | 2.23  | 72.6   | 97.7      | 0          | 36                   | A            |
| pH         | 4.87       | 3.91  | 6.24  | 1510.9 | 98.6      | 0          | 38                   | A            |
| K+         | 0.08       | 0.00  | 2.10  | 8.8    | 97.7      | 20         | 36                   | B            |
| Precip     | -          | 0.0   | 10.8  | 113.0  | 100.0     | 39         | 90                   |              |
| Na+        | 1.10       | 0.06  | 17.94 | 124.3  | 97.7      | 0          | 36                   | A            |
| SO4-- corr | 0.52       | 0.00  | 3.25  | 59.3   | 97.7      | 1          | 36                   | A            |
| SO4--      | 0.62       | 0.21  | 3.29  | 70.0   | 97.7      | 0          | 36                   | A            |

DE0007R Neuglobsow Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.90       | 0.07  | 2.66  | 129.0  | 97.6      | 0          | 27                   | A            |
| Ca++       | 0.39       | 0.20  | 1.90  | 55.7   | 97.6      | 0          | 27                   | A            |
| Cl-        | 0.47       | 0.10  | 9.50  | 67.1   | 97.6      | 0          | 27                   | A            |
| Mg++       | 0.052      | 0.005 | 0.150 | 7.5    | 97.6      | 1          | 27                   | A            |
| NO3-       | 0.75       | 0.31  | 2.73  | 107.6  | 97.6      | 0          | 27                   | A            |
| pH         | 4.86       | 4.00  | 7.03  | 1983.1 | 99.7      | 0          | 34                   | A            |
| K+         | 0.07       | 0.00  | 0.48  | 9.7    | 97.6      | 1          | 27                   | B            |
| Precip     | -          | 0.0   | 15.3  | 142.9  | 100.0     | 55         | 92                   |              |
| Na+        | 0.21       | 0.02  | 1.13  | 30.6   | 97.6      | 0          | 27                   | A            |
| SO4-- corr | 0.64       | 0.28  | 2.82  | 91.7   | 97.6      | 0          | 27                   | A            |
| SO4--      | 0.67       | 0.29  | 2.85  | 95.1   | 97.6      | 0          | 27                   | A            |

DE0007R Neuglobsow Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 1.29       | 0.29  | 4.43  | 128.1  | 96.0      | 0          | 25                   | A            |
| Ca++       | 0.50       | 0.00  | 1.30  | 49.7   | 96.6      | 1          | 26                   | A            |
| Cl-        | 0.36       | 0.10  | 2.50  | 35.5   | 96.6      | 0          | 26                   | A            |
| Mg++       | 0.065      | 0.030 | 0.310 | 6.5    | 96.6      | 0          | 26                   | A            |
| NO3-       | 0.75       | 0.37  | 2.26  | 74.8   | 96.6      | 0          | 26                   | A            |
| pH         | 4.74       | 3.86  | 6.98  | 1823.9 | 99.3      | 0          | 32                   | A            |
| K+         | 0.15       | 0.04  | 0.84  | 14.7   | 96.6      | 0          | 26                   | B            |
| Precip     | -          | 0.0   | 10.8  | 99.4   | 100.0     | 56         | 92                   |              |
| Na+        | 0.18       | 0.04  | 1.45  | 17.6   | 96.6      | 0          | 26                   | A            |
| SO4-- corr | 0.88       | 0.28  | 2.40  | 87.3   | 96.6      | 0          | 26                   | A            |
| SO4--      | 0.90       | 0.32  | 2.47  | 89.8   | 96.6      | 0          | 26                   | A            |

DE0007R Neuglobsow Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.60       | 0.09  | 1.84  | 53.4   | 96.4      | 0          | 26                   | A            |
| Ca++       | 0.42       | 0.10  | 2.00  | 36.8   | 96.4      | 0          | 26                   | A            |
| Cl-        | 0.63       | 0.10  | 3.50  | 55.4   | 95.7      | 0          | 25                   | A            |
| Mg++       | 0.055      | 0.005 | 0.290 | 4.8    | 96.4      | 1          | 26                   | A            |
| NO3-       | 0.59       | 0.18  | 2.13  | 52.1   | 95.7      | 0          | 25                   | A            |
| pH         | 4.91       | 3.98  | 6.75  | 1099.8 | 99.1      | 0          | 31                   | A            |
| K+         | 0.10       | 0.00  | 0.65  | 8.5    | 96.4      | 11         | 26                   | B            |
| Precip     | -          | 0.0   | 12.5  | 88.4   | 100.0     | 54         | 91                   |              |
| Na+        | 0.34       | 0.03  | 1.58  | 30.4   | 96.4      | 0          | 26                   | A            |
| SO4-- corr | 0.61       | 0.15  | 1.97  | 53.6   | 95.7      | 0          | 25                   | A            |
| SO4--      | 0.64       | 0.15  | 2.03  | 56.4   | 95.7      | 0          | 25                   | A            |

DE0008R Schmucke Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.53       | 0.00  | 2.76  | 179.2  | 91.0      | 0          | 49           | A          |              |
| Ca++       | 0.05       | 0.00  | 0.50  | 16.4   | 91.1      | 20         | 49           | A          |              |
| Cl-        | 0.89       | 0.10  | 7.00  | 302.1  | 91.2      | 0          | 50           | A          |              |
| Mg++       | 0.060      | 0.005 | 0.500 | 20.1   | 91.1      | 7          | 49           | A          |              |
| NO3-       | 0.62       | 0.14  | 4.97  | 211.1  | 91.2      | 0          | 50           | A          |              |
| pH         | 4.54       | 3.68  | 5.41  | 9825.8 | 91.3      | 0          | 51           | A          |              |
| K+         | 0.03       | 0.00  | 0.31  | 10.7   | 93.8      | 18         | 51           | B          |              |
| Precip     | -          | 0.0   | 22.1  | 320.0  | 94.4      | 11         | 85           |            |              |
| Na+        | 0.53       | 0.04  | 4.12  | 178.5  | 91.1      | 0          | 49           | A          |              |
| SO4-- corr | 0.57       | 0.11  | 3.14  | 194.5  | 91.2      | 0          | 50           | A          |              |
| SO4--      | 0.62       | 0.11  | 3.17  | 208.4  | 91.2      | 0          | 50           | A          |              |

DE0008R Schmucke Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.74       | 0.04  | 5.70  | 191.3  | 99.3      | 0          | 47           | A          |              |
| Ca++       | 0.24       | 0.10  | 1.60  | 61.5   | 99.2      | 0          | 46           | A          |              |
| Cl-        | 0.40       | 0.10  | 2.10  | 103.5  | 99.3      | 0          | 47           | A          |              |
| Mg++       | 0.037      | 0.005 | 0.370 | 9.5    | 99.2      | 6          | 46           | A          |              |
| NO3-       | 0.69       | 0.21  | 3.50  | 178.5  | 99.3      | 0          | 47           | A          |              |
| pH         | 4.66       | 4.00  | 6.62  | 5621.6 | 99.6      | 0          | 49           | A          |              |
| K+         | 0.07       | 0.00  | 1.04  | 17.0   | 99.2      | 1          | 46           | B          |              |
| Precip     | -          | 0.0   | 33.7  | 257.8  | 100.0     | 33         | 92           |            |              |
| Na+        | 0.25       | 0.03  | 1.35  | 63.9   | 99.2      | 0          | 46           | A          |              |
| SO4-- corr | 0.61       | 0.24  | 2.58  | 157.4  | 99.3      | 0          | 47           | A          |              |
| SO4--      | 0.63       | 0.25  | 2.64  | 163.4  | 99.3      | 0          | 47           | A          |              |

DE0008R Schmucke Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.50       | 0.02  | 2.32  | 163.9  | 99.1      | 0          | 40           | A          |              |
| Ca++       | 0.19       | 0.00  | 3.70  | 62.8   | 99.1      | 5          | 40           | A          |              |
| Cl-        | 0.21       | 0.00  | 3.40  | 66.7   | 99.1      | 2          | 40           | A          |              |
| Mg++       | 0.022      | 0.005 | 0.340 | 7.1    | 99.1      | 10         | 40           | A          |              |
| NO3-       | 0.39       | 0.08  | 2.33  | 125.1  | 99.1      | 0          | 40           | A          |              |
| pH         | 4.91       | 4.26  | 6.40  | 4013.1 | 99.4      | 0          | 43           | A          |              |
| K+         | 0.06       | 0.00  | 0.41  | 19.4   | 99.1      | 2          | 40           | B          |              |
| Precip     | -          | 0.0   | 44.0  | 324.2  | 100.0     | 30         | 92           |            |              |
| Na+        | 0.12       | 0.02  | 0.91  | 40.2   | 99.1      | 0          | 40           | A          |              |
| SO4-- corr | 0.41       | 0.11  | 2.12  | 133.3  | 99.1      | 0          | 40           | A          |              |
| SO4--      | 0.42       | 0.12  | 2.16  | 136.8  | 99.1      | 0          | 40           | A          |              |

DE0008R Schmucke Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.51       | 0.02  | 2.12  | 166.3  | 99.5      | 0          | 46           | A          |              |
| Ca++       | 0.11       | 0.00  | 1.20  | 36.3   | 99.5      | 10         | 46           | A          |              |
| Cl-        | 0.36       | 0.10  | 4.00  | 117.9  | 99.5      | 0          | 46           | A          |              |
| Mg++       | 0.027      | 0.005 | 0.420 | 8.7    | 99.5      | 13         | 46           | A          |              |
| NO3-       | 0.56       | 0.15  | 1.62  | 181.6  | 99.5      | 0          | 46           | A          |              |
| pH         | 4.55       | 3.98  | 6.47  | 9172.9 | 99.5      | 0          | 46           | A          |              |
| K+         | 0.07       | 0.00  | 1.33  | 22.0   | 99.5      | 10         | 46           | B          |              |
| Precip     | -          | 0.0   | 34.0  | 325.0  | 100.0     | 29         | 91           |            |              |
| Na+        | 0.23       | 0.02  | 2.20  | 74.5   | 99.5      | 0          | 46           | A          |              |
| SO4-- corr | 0.55       | 0.15  | 1.25  | 177.3  | 99.5      | 0          | 46           | A          |              |
| SO4--      | 0.56       | 0.17  | 1.27  | 182.7  | 99.5      | 0          | 46           | A          |              |

DE0009R Zingst Germany

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.64       | 0.19  | 3.60  | 66.1   | 82.6      | 0          | 32                   | A            |
| Ca++       | 0.55       | 0.10  | 3.20  | 56.6   | 82.3      | 0          | 31                   | A            |
| Cl-        | 1.74       | 0.40  | 9.50  | 179.6  | 82.6      | 0          | 32                   | A            |
| Mg++       | 0.220      | 0.040 | 2.310 | 22.7   | 82.3      | 0          | 31                   | A            |
| NO3-       | 0.81       | 0.29  | 3.37  | 83.6   | 82.6      | 0          | 32                   | A            |
| pH         | 4.78       | 4.13  | 6.41  | 1726.1 | 82.9      | 0          | 33                   | A            |
| K+         | 0.08       | 0.00  | 0.33  | 8.1    | 89.5      | 9          | 34                   | B            |
| Precip     | -          | 0.0   | 10.8  | 86.9   | 91.1      | 39         | 82                   |              |
| Na+        | 0.78       | 0.18  | 4.38  | 80.3   | 82.3      | 0          | 31                   | A            |
| SO4-- corr | 0.71       | 0.11  | 4.26  | 72.9   | 82.6      | 0          | 32                   | A            |
| SO4--      | 0.78       | 0.13  | 4.39  | 80.5   | 82.6      | 0          | 32                   | A            |

DE0009R Zingst Germany

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.65       | 0.05  | 3.38  | 79.6   | 98.4      | 0          | 25                   | A            |
| Ca++       | 0.39       | 0.10  | 2.40  | 47.2   | 98.9      | 0          | 27                   | A            |
| Cl-        | 0.69       | 0.30  | 5.30  | 84.4   | 99.0      | 0          | 27                   | A            |
| Mg++       | 0.098      | 0.030 | 1.350 | 12.0   | 98.9      | 0          | 27                   | A            |
| NO3-       | 0.71       | 0.16  | 2.87  | 86.7   | 99.0      | 0          | 27                   | A            |
| pH         | 4.67       | 4.10  | 6.65  | 2619.0 | 99.3      | 0          | 29                   | A            |
| K+         | 0.07       | 0.00  | 0.69  | 8.6    | 98.9      | 1          | 27                   | B            |
| Precip     | -          | 0.0   | 17.9  | 121.8  | 100.0     | 57         | 92                   |              |
| Na+        | 0.38       | 0.04  | 2.71  | 45.8   | 98.9      | 0          | 27                   | A            |
| SO4-- corr | 0.62       | 0.23  | 2.53  | 76.2   | 99.0      | 0          | 27                   | A            |
| SO4--      | 0.67       | 0.26  | 2.76  | 81.1   | 99.0      | 0          | 27                   | A            |

DE0009R Zingst Germany

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.57       | 0.00  | 2.36  | 115.7  | 99.6      | 1          | 33                   | A            |
| Ca++       | 0.62       | 0.10  | 2.70  | 124.9  | 99.6      | 0          | 33                   | A            |
| Cl-        | 1.10       | 0.10  | 8.10  | 221.6  | 99.6      | 0          | 33                   | A            |
| Mg++       | 0.171      | 0.030 | 0.700 | 34.6   | 99.6      | 0          | 33                   | A            |
| NO3-       | 0.55       | 0.10  | 1.83  | 110.5  | 99.6      | 0          | 33                   | A            |
| pH         | 5.25       | 4.58  | 6.79  | 1143.4 | 99.9      | 0          | 35                   | A            |
| K+         | 0.15       | 0.00  | 0.91  | 29.6   | 99.6      | 1          | 33                   | B            |
| Precip     | -          | 0.0   | 21.9  | 202.4  | 100.0     | 55         | 92                   |              |
| Na+        | 0.62       | 0.06  | 4.32  | 125.3  | 99.6      | 0          | 33                   | A            |
| SO4-- corr | 0.60       | 0.16  | 1.76  | 120.4  | 99.6      | 0          | 33                   | A            |
| SO4--      | 0.65       | 0.19  | 1.94  | 131.2  | 99.6      | 0          | 33                   | A            |

DE0009R Zingst Germany

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.03  | 1.89  | 31.0  | 98.4      | 0          | 29                   | A            |
| Ca++       | 0.92       | 0.30  | 3.50  | 80.9  | 97.4      | 0          | 26                   | A            |
| Cl-        | 2.27       | 0.60  | 12.80 | 200.6 | 98.8      | 0          | 30                   | A            |
| Mg++       | 0.227      | 0.070 | 0.970 | 20.0  | 97.4      | 0          | 26                   | A            |
| NO3-       | 0.56       | 0.27  | 2.33  | 49.8  | 98.8      | 0          | 30                   | A            |
| pH         | 5.14       | 4.56  | 6.44  | 644.9 | 99.1      | 0          | 31                   | A            |
| K+         | 0.04       | 0.00  | 0.48  | 3.6   | 97.4      | 8          | 26                   | B            |
| Precip     | -          | 0.0   | 16.3  | 88.2  | 100.0     | 53         | 91                   |              |
| Na+        | 1.26       | 0.32  | 3.33  | 110.8 | 97.4      | 0          | 26                   | A            |
| SO4-- corr | 0.66       | 0.29  | 3.35  | 58.5  | 98.8      | 0          | 30                   | A            |
| SO4--      | 0.77       | 0.35  | 3.63  | 68.3  | 98.8      | 0          | 30                   | A            |

| DK0003R                       |            | Tange |       | Denmark |           |            |              |            |              |
|-------------------------------|------------|-------|-------|---------|-----------|------------|--------------|------------|--------------|
| December 1998 - February 1999 |            |       |       |         |           |            |              |            |              |
| Component                     | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.31       | 0.01  | 1.89  | 47.9    | 99.2      | 0          | 41           | A          |              |
| Ca++                          | 0.21       | 0.00  | 1.34  | 32.3    | 98.9      | 1          | 40           | A          |              |
| Cl-                           | 6.89       | 0.28  | 68.80 | 1062.1  | 99.7      | 0          | 44           | A          |              |
| Mg++                          | 0.533      | 0.020 | 4.340 | 82.2    | 91.3      | 0          | 39           | A          |              |
| NO3-                          | 0.42       | 0.03  | 1.75  | 64.4    | 99.5      | 0          | 43           | A          |              |
| pH                            | 4.82       | 4.15  | 5.39  | 2330.4  | 97.6      | 0          | 37           | A          |              |
| K+                            | 0.15       | 0.01  | 1.38  | 22.9    | 98.9      | 0          | 40           | B          |              |
| Precip                        | -          | 0.0   | 12.6  | 154.2   | 100.0     | 37         | 90           |            |              |
| Na+                           | 1.94       | 0.16  | 18.59 | 298.9   | 98.9      | 0          | 40           | A          |              |
| SO4-- corr                    | 0.37       | 0.01  | 2.19  | 56.6    | 99.7      | 0          | 44           | A          |              |
| SO4--                         | 0.68       | 0.12  | 3.27  | 105.1   | 99.7      | 0          | 44           | A          |              |

| DK0003R               |            | Tange |       | Denmark |           |            |              |            |              |
|-----------------------|------------|-------|-------|---------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |       |       |         |           |            |              |            |              |
| Component             | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.69       | 0.01  | 3.12  | 101.8   | 97.9      | 0          | 39           | A          |              |
| Ca++                  | 0.09       | 0.01  | 1.38  | 14.0    | 95.1      | 0          | 36           | A          |              |
| Cl-                   | 1.20       | 0.03  | 26.50 | 176.3   | 98.3      | 0          | 46           | A          |              |
| Mg++                  | 0.066      | 0.010 | 0.450 | 9.6     | 95.0      | 0          | 34           | A          |              |
| NO3-                  | 0.62       | 0.05  | 2.40  | 91.4    | 98.3      | 0          | 46           | A          |              |
| pH                    | 4.67       | 4.15  | 6.43  | 3116.5  | 95.6      | 0          | 34           | A          |              |
| K+                    | 0.03       | 0.00  | 0.16  | 4.1     | 95.5      | 2          | 37           | B          |              |
| Precip                | -          | 0.0   | 12.0  | 147.0   | 97.8      | 18         | 90           |            |              |
| Na+                   | 0.67       | 0.10  | 4.43  | 98.2    | 95.0      | 0          | 34           | A          |              |
| SO4-- corr            | 0.54       | 0.06  | 2.69  | 79.9    | 98.3      | 0          | 46           | A          |              |
| SO4--                 | 0.60       | 0.07  | 2.72  | 88.8    | 98.3      | 0          | 46           | A          |              |

| DK0003R                 |            | Tange |       | Denmark |           |            |              |            |              |
|-------------------------|------------|-------|-------|---------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |       |       |         |           |            |              |            |              |
| Component               | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.28       | 0.00  | 0.96  | 29.7    | 99.5      | 0          | 15           | A          |              |
| Ca++                    | 0.04       | 0.02  | 0.10  | 4.4     | 99.5      | 0          | 15           | A          |              |
| Cl-                     | 0.35       | 0.09  | 1.66  | 37.1    | 99.7      | 0          | 16           | A          |              |
| Mg++                    | 0.026      | 0.010 | 0.090 | 2.8     | 67.2      | 0          | 13           | A          |              |
| NO3-                    | 0.26       | 0.04  | 1.01  | 27.2    | 99.7      | 0          | 16           | A          |              |
| pH                      | 4.99       | 3.00  | 6.11  | 1091.3  | 99.5      | 0          | 77           | A          |              |
| K+                      | 0.04       | 0.01  | 0.13  | 4.3     | 54.6      | 0          | 12           | B          |              |
| Precip                  | -          | 0.0   | 21.5  | 105.6   | 32.6      | 1          | 30           |            |              |
| Na+                     | 0.19       | 0.03  | 1.78  | 20.3    | 99.5      | 0          | 15           | A          |              |
| SO4-- corr              | 0.24       | 0.10  | 0.63  | 25.0    | 96.3      | 0          | 15           | A          |              |
| SO4--                   | 0.25       | 0.10  | 0.64  | 26.3    | 96.3      | 0          | 15           | A          |              |

| DK0005R                       |            | Keldsnor |       | Denmark |           |            |                      |              |  |
|-------------------------------|------------|----------|-------|---------|-----------|------------|----------------------|--------------|--|
| December 1998 - February 1999 |            |          |       |         |           |            |                      |              |  |
| Component                     | W.<br>mean | Min      | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                          | 0.44       | 0.08     | 2.04  | 53.3    | 98.1      | 0          | 38                   | A            |  |
| Ca++                          | 0.22       | 0.07     | 1.13  | 26.6    | 97.0      | 0          | 35                   | A            |  |
| Cl-                           | 3.79       | 0.27     | 41.40 | 461.2   | 98.8      | 0          | 44                   | A            |  |
| Mg++                          | 0.205      | 0.040    | 2.530 | 24.9    | 95.3      | 0          | 33                   | A            |  |
| NO3-                          | 0.52       | 0.10     | 1.94  | 63.2    | 98.8      | 0          | 44                   | A            |  |
| pH                            | 4.91       | 4.40     | 6.49  | 1501.8  | 95.8      | 0          | 33                   | A            |  |
| K+                            | 0.42       | 0.02     | 2.19  | 50.7    | 96.1      | 0          | 34                   | B            |  |
| Precip                        | -          | 0.0      | 13.1  | 121.8   | 100.0     | 29         | 90                   |              |  |
| Na+                           | 2.17       | 0.27     | 23.21 | 264.0   | 96.3      | 0          | 34                   | A            |  |
| SO4-- corr                    | 0.37       | 0.06     | 1.84  | 45.3    | 98.8      | 0          | 44                   | A            |  |
| SO4--                         | 0.55       | 0.26     | 2.14  | 67.2    | 98.8      | 0          | 44                   | A            |  |

DK0005R Keldsnor Denmark

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.77       | 0.17  | 4.20  | 107.7  | 81.8      | 0          | 28 A                 |              |
| Ca++       | 0.19       | 0.03  | 1.84  | 26.0   | 91.0      | 0          | 30 A                 |              |
| Cl-        | 1.13       | 0.23  | 9.07  | 157.5  | 99.5      | 0          | 37 A                 |              |
| Mg++       | 0.066      | 0.020 | 0.300 | 9.2    | 93.8      | 0          | 26 A                 |              |
| NO3-       | 0.71       | 0.07  | 4.88  | 99.1   | 99.5      | 0          | 37 A                 |              |
| pH         | 4.66       | 3.92  | 6.98  | 3084.5 | 94.4      | 0          | 27 A                 |              |
| K+         | 0.20       | 0.02  | 1.82  | 27.3   | 97.0      | 0          | 30 B                 |              |
| Precip     | -          | 0.0   | 18.0  | 139.5  | 98.9      | 43         | 91                   |              |
| Na+        | 0.65       | 0.00  | 3.02  | 90.8   | 94.2      | 1          | 27 A                 |              |
| SO4-- corr | 0.54       | 0.10  | 5.90  | 75.2   | 99.5      | 0          | 37 A                 |              |
| SO4--      | 0.59       | 0.13  | 6.27  | 82.9   | 99.5      | 0          | 37 A                 |              |

DK0005R Keldsnor Denmark

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.70       | 0.26  | 1.25  | 69.8   | 99.8      | 0          | 12 A                 |              |
| Ca++       | 0.24       | 0.08  | 0.44  | 23.9   | 99.8      | 0          | 12 A                 |              |
| Cl-        | 1.52       | 0.58  | 3.39  | 150.0  | 100.0     | 0          | 13 A                 |              |
| Mg++       | 0.105      | 0.023 | 0.230 | 10.4   | 99.8      | 0          | 12 A                 |              |
| NO3-       | 0.80       | 0.28  | 1.41  | 79.3   | 100.0     | 0          | 13 A                 |              |
| pH         | 4.72       | 4.25  | 6.23  | 1863.3 | 99.8      | 0          | 12 A                 |              |
| K+         | 0.26       | 0.04  | 0.81  | 25.3   | 99.8      | 0          | 12 B                 |              |
| Precip     | -          | 0.0   | 20.7  | 98.9   | 70.7      | 10         | 23                   |              |
| Na+        | 0.77       | 0.12  | 1.38  | 76.6   | 99.8      | 0          | 12 A                 |              |
| SO4-- corr | 0.64       | 0.22  | 0.91  | 63.6   | 100.0     | 0          | 13 A                 |              |
| SO4--      | 0.71       | 0.26  | 0.95  | 70.1   | 100.0     | 0          | 13 A                 |              |

DK0005R Keldsnor Denmark

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.65       | 0.16  | 0.95  | 132.5  | 100.0     | 0          | 5 A                  |              |
| Ca++       | 0.49       | 0.24  | 1.13  | 100.9  | 100.0     | 0          | 5 A                  |              |
| Cl-        | 7.30       | 2.17  | 19.10 | 1495.2 | 100.0     | 0          | 5 A                  |              |
| Mg++       | 0.481      | 0.140 | 1.300 | 98.7   | 100.0     | 0          | 5 A                  |              |
| NO3-       | 0.45       | 0.28  | 0.55  | 91.8   | 100.0     | 0          | 5 A                  |              |
| pH         | 5.38       | 4.90  | 6.81  | 857.7  | 100.0     | 0          | 5 A                  |              |
| K+         | 0.51       | 0.26  | 1.12  | 105.2  | 100.0     | 0          | 5 B                  |              |
| Precip     | -          | 14.2  | 100.9 | 204.9  | 82.4      | 0          | 5                    |              |
| Na+        | 4.05       | 1.19  | 10.32 | 830.8  | 100.0     | 0          | 5 A                  |              |
| SO4-- corr | 0.38       | 0.22  | 0.52  | 78.4   | 100.0     | 0          | 5 A                  |              |
| SO4--      | 0.72       | 0.49  | 1.08  | 148.0  | 100.0     | 0          | 5 A                  |              |

DK0008R Anholt Denmark

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.39       | 0.27  | 1.50  | 52.4   | 100.0     | 0          | 14 A                 | W            |
| Ca++       | 0.37       | 0.09  | 2.12  | 50.1   | 100.0     | 0          | 14 A                 | W            |
| Cl-        | 6.67       | 1.89  | 58.20 | 901.8  | 98.7      | 0          | 13 A                 | W            |
| Mg++       | 0.484      | 0.170 | 3.930 | 65.5   | 100.0     | 0          | 14 A                 | W            |
| NO3-       | 0.70       | 0.47  | 1.78  | 94.2   | 100.0     | 0          | 14 A                 | W            |
| pH         | 4.74       | 4.32  | 5.39  | 2456.5 | 100.0     | 0          | 14 A                 | W            |
| K+         | 0.16       | 0.04  | 1.36  | 21.6   | 100.0     | 0          | 14 B                 | W            |
| Precip     | -          | 0.0   | 32.6  | 135.1  | 70.0      | 0          | 15                   | W            |
| Na+        | 3.96       | 1.21  | 32.01 | 535.1  | 98.7      | 0          | 13 A                 | W            |
| SO4-- corr | 0.44       | 0.29  | 1.25  | 59.3   | 100.0     | 0          | 14 A                 | W            |
| SO4--      | 0.77       | 0.46  | 3.42  | 104.5  | 100.0     | 0          | 14 A                 | W            |

| DK0008R               |            | Anholt |       | Denmark |           |            |              |            |              |
|-----------------------|------------|--------|-------|---------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |        |       |         |           |            |              |            |              |
| Component             | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.51       | 0.18   | 1.39  | 117.9   | 100.0     | 0          | 9            | A          | W            |
| Ca++                  | 0.29       | 0.15   | 1.06  | 68.3    | 100.0     | 0          | 9            | A          | W            |
| Cl-                   | 2.82       | 1.05   | 13.00 | 657.4   | 100.0     | 0          | 9            | A          | W            |
| Mg++                  | 0.211      | 0.110  | 0.840 | 49.0    | 100.0     | 0          | 9            | A          | W            |
| NO3-                  | 0.63       | 0.42   | 1.55  | 146.2   | 100.0     | 0          | 9            | A          | W            |
| pH                    | 4.72       | 4.05   | 6.02  | 4449.7  | 100.0     | 0          | 9            | A          | W            |
| K+                    | 0.14       | 0.04   | 1.50  | 33.5    | 100.0     | 0          | 9            | B          | W            |
| Precip                | -          | 3.9    | 69.9  | 232.8   | 115.2     | 0          | 9            |            | W            |
| Na+                   | 1.71       | 0.69   | 7.30  | 398.9   | 100.0     | 0          | 9            | A          | W            |
| SO4-- corr            | 0.53       | 0.24   | 1.00  | 123.0   | 100.0     | 0          | 9            | A          | W            |
| SO4--                 | 0.67       | 0.44   | 1.29  | 156.0   | 100.0     | 0          | 9            | A          | W            |

| DK0008R                 |            | Anholt |       | Denmark |           |            |              |            |              |
|-------------------------|------------|--------|-------|---------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |        |       |         |           |            |              |            |              |
| Component               | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.28       | 0.18   | 0.49  | 67.2    | 100.0     | 0          | 5            | A          | W            |
| Ca++                    | 0.16       | 0.11   | 0.26  | 39.4    | 100.0     | 0          | 5            | A          | W            |
| Cl-                     | 2.09       | 0.99   | 3.25  | 509.8   | 100.0     | 0          | 5            | A          | W            |
| Mg++                    | 0.181      | 0.090  | 0.490 | 44.0    | 100.0     | 0          | 5            | A          | W            |
| NO3-                    | 0.30       | 0.18   | 0.46  | 72.9    | 100.0     | 0          | 5            | A          | W            |
| pH                      | 5.01       | 4.61   | 6.49  | 2349.1  | 100.0     | 0          | 5            | A          | W            |
| K+                      | 0.08       | 0.05   | 0.13  | 19.8    | 100.0     | 0          | 5            | B          | W            |
| Precip                  | -          | 0.0    | 99.7  | 243.4   | 100.0     | 1          | 6            |            | W            |
| Na+                     | 1.39       | 0.82   | 2.24  | 337.4   | 100.0     | 0          | 5            | A          | W            |
| SO4-- corr              | 0.28       | 0.21   | 0.62  | 69.1    | 100.0     | 0          | 5            | A          | W            |
| SO4--                   | 0.40       | 0.29   | 0.68  | 96.3    | 100.0     | 0          | 5            | A          | W            |

| DK0008R                        |            | Anholt |       | Denmark |           |            |              |            |              |
|--------------------------------|------------|--------|-------|---------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |        |       |         |           |            |              |            |              |
| Component                      | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.54       | 0.21   | 1.63  | 107.2   | 100.0     | 0          | 6            | A          | W            |
| Ca++                           | 0.51       | 0.29   | 1.72  | 102.2   | 100.0     | 0          | 6            | A          | W            |
| Cl-                            | 16.61      | 1.81   | 42.20 | 3310.3  | 100.0     | 0          | 6            | A          | W            |
| Mg++                           | 1.088      | 0.140  | 2.860 | 217.0   | 100.0     | 0          | 6            | A          | W            |
| NO3-                           | 0.64       | 0.35   | 2.84  | 126.8   | 100.0     | 0          | 6            | A          | W            |
| pH                             | 4.73       | 4.36   | 4.82  | 3684.5  | 100.0     | 0          | 6            | A          | W            |
| K+                             | 0.37       | 0.10   | 0.98  | 72.9    | 100.0     | 0          | 6            | B          | W            |
| Precip                         | -          | 1.4    | 83.4  | 199.3   | 100.0     | 0          | 6            |            | W            |
| Na+                            | 8.69       | 1.21   | 24.87 | 1731.9  | 100.0     | 0          | 6            | A          | W            |
| SO4-- corr                     | 0.42       | 0.21   | 1.42  | 84.0    | 100.0     | 0          | 6            | A          | W            |
| SO4--                          | 1.14       | 0.67   | 3.41  | 227.1   | 100.0     | 0          | 6            | A          | W            |

| EE0009R                       |            | Lahemaa |       | Estonia |           |            |                      |              |  |
|-------------------------------|------------|---------|-------|---------|-----------|------------|----------------------|--------------|--|
| December 1998 - February 1999 |            |         |       |         |           |            |                      |              |  |
| Component                     | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                          | 0.16       | 0.00    | 0.76  | 28.6    | 97.1      | 3          | 41                   | A            |  |
| Ca++                          | 0.16       | 0.03    | 0.60  | 27.0    | 98.1      | 0          | 42                   | B            |  |
| Cl-                           | 0.58       | 0.10    | 5.60  | 100.4   | 99.3      | 0          | 45                   | B            |  |
| Mg++                          | 0.041      | 0.005   | 0.440 | 7.2     | 98.1      | 4          | 42                   | B            |  |
| NO3-                          | 0.37       | 0.13    | 1.73  | 65.0    | 99.3      | 0          | 45                   | A            |  |
| pH                            | 4.70       | 4.04    | 5.40  | 3447.5  | 100.0     | 0          | 47                   | B            |  |
| K+                            | 0.07       | 0.05    | 0.51  | 12.5    | 98.3      | 23         | 43                   | B            |  |
| Precip                        | -          | 0.0     | 13.2  | 174.5   | 100.0     | 43         | 90                   |              |  |
| Na+                           | 0.24       | 0.05    | 3.47  | 41.6    | 98.3      | 9          | 43                   | A            |  |
| SO4-- corr                    | 0.44       | 0.09    | 2.23  | 76.2    | 99.3      | 0          | 45                   | A            |  |
| SO4--                         | 0.46       | 0.11    | 2.29  | 80.3    | 99.3      | 0          | 45                   | A            |  |

|                       |            |       |         |        |           |            |                      |              |
|-----------------------|------------|-------|---------|--------|-----------|------------|----------------------|--------------|
| EE0009R               | Lahemaa    |       | Estonia |        |           |            |                      |              |
| March 1999 - May 1999 |            |       |         |        |           |            |                      |              |
| Component             | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.52       | 0.10  | 1.76    | 32.3   | 96.3      | 0          | 22                   | A            |
| Ca++                  | 0.81       | 0.20  | 6.00    | 50.6   | 91.5      | 0          | 19                   | B            |
| Cl-                   | 0.57       | 0.20  | 2.20    | 35.3   | 100.0     | 0          | 26                   | B            |
| Mg++                  | 0.085      | 0.005 | 0.380   | 5.3    | 91.5      | 1          | 19                   | B            |
| NO3-                  | 0.61       | 0.29  | 2.13    | 38.0   | 100.0     | 0          | 26                   | A            |
| pH                    | 4.77       | 3.95  | 7.02    | 1044.7 | 100.0     | 0          | 26                   | B            |
| K+                    | 0.15       | 0.05  | 0.55    | 9.3    | 91.5      | 4          | 19                   | B            |
| Precip                | -          | 0.0   | 10.6    | 62.1   | 100.0     | 66         | 92                   |              |
| Na+                   | 0.23       | 0.05  | 1.35    | 14.2   | 91.5      | 5          | 19                   | A            |
| SO4-- corr            | 0.97       | 0.33  | 3.45    | 60.4   | 100.0     | 0          | 26                   | A            |
| SO4--                 | 1.00       | 0.36  | 3.51    | 62.0   | 100.0     | 0          | 26                   | A            |

|                         |            |       |         |        |           |            |                      |              |
|-------------------------|------------|-------|---------|--------|-----------|------------|----------------------|--------------|
| EE0009R                 | Lahemaa    |       | Estonia |        |           |            |                      |              |
| June 1999 - August 1999 |            |       |         |        |           |            |                      |              |
| Component               | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.11       | 0.00  | 1.83    | 20.5   | 98.7      | 1          | 27                   | A            |
| Ca++                    | 0.43       | 0.10  | 4.50    | 79.0   | 99.2      | 0          | 28                   | B            |
| Cl-                     | 0.22       | 0.05  | 1.30    | 41.4   | 100.0     | 3          | 30                   | B            |
| Mg++                    | 0.066      | 0.010 | 0.340   | 12.2   | 99.2      | 0          | 28                   | B            |
| NO3-                    | 0.16       | 0.01  | 1.49    | 30.1   | 100.0     | 3          | 30                   | A            |
| pH                      | 5.23       | 4.25  | 6.36    | 1080.0 | 100.0     | 0          | 30                   | B            |
| K+                      | 0.14       | 0.05  | 1.16    | 25.5   | 99.2      | 16         | 28                   | B            |
| Precip                  | -          | 0.0   | 42.4    | 183.8  | 100.0     | 62         | 92                   |              |
| Na+                     | 0.12       | 0.05  | 1.37    | 22.7   | 99.2      | 12         | 28                   | A            |
| SO4-- corr              | 0.44       | 0.19  | 2.57    | 81.8   | 100.0     | 0          | 30                   | A            |
| SO4--                   | 0.46       | 0.20  | 2.61    | 84.4   | 100.0     | 0          | 30                   | A            |

|                                |            |       |         |        |           |            |                      |              |
|--------------------------------|------------|-------|---------|--------|-----------|------------|----------------------|--------------|
| EE0009R                        | Lahemaa    |       | Estonia |        |           |            |                      |              |
| September 1999 - November 1999 |            |       |         |        |           |            |                      |              |
| Component                      | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.13       | 0.00  | 1.20    | 28.4   | 98.6      | 3          | 33                   | A            |
| Ca++                           | 0.30       | 0.04  | 4.50    | 62.8   | 96.4      | 0          | 29                   | B            |
| Cl-                            | 0.54       | 0.10  | 3.40    | 115.0  | 98.8      | 0          | 33                   | B            |
| Mg++                           | 0.060      | 0.010 | 0.280   | 12.7   | 96.4      | 0          | 29                   | B            |
| NO3-                           | 0.25       | 0.01  | 1.51    | 52.6   | 98.8      | 1          | 33                   | A            |
| pH                             | 4.67       | 4.25  | 6.41    | 4585.2 | 100.0     | 0          | 36                   | B            |
| K+                             | 0.07       | 0.05  | 0.43    | 15.0   | 96.4      | 22         | 29                   | B            |
| Precip                         | -          | 0.0   | 19.1    | 212.5  | 100.0     | 55         | 91                   |              |
| Na+                            | 0.28       | 0.05  | 1.74    | 59.1   | 96.4      | 7          | 29                   | A            |
| SO4-- corr                     | 0.46       | 0.13  | 2.81    | 98.7   | 98.8      | 0          | 33                   | A            |
| SO4--                          | 0.49       | 0.13  | 2.86    | 104.7  | 98.8      | 0          | 33                   | A            |

|                               |            |       |         |        |           |            |                      |              |
|-------------------------------|------------|-------|---------|--------|-----------|------------|----------------------|--------------|
| EE0011R                       | Vilsandi   |       | Estonia |        |           |            |                      |              |
| December 1998 - February 1999 |            |       |         |        |           |            |                      |              |
| Component                     | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.34       | 0.00  | 0.99    | 47.3   | 96.9      | 1          | 15                   | A            |
| Ca++                          | 0.22       | 0.10  | 0.80    | 29.6   | 98.1      | 0          | 16                   | B            |
| Cl-                           | 1.83       | 0.30  | 4.20    | 250.6  | 98.1      | 0          | 16                   | B            |
| Mg++                          | 0.132      | 0.030 | 0.350   | 18.1   | 98.1      | 0          | 16                   | B            |
| NO3-                          | 0.50       | 0.26  | 1.12    | 68.2   | 98.1      | 0          | 16                   | A            |
| pH                            | 4.82       | 4.21  | 6.57    | 2064.0 | 99.3      | 0          | 18                   | B            |
| K+                            | 0.40       | 0.05  | 1.48    | 55.0   | 98.1      | 2          | 16                   | B            |
| Precip                        | -          | 0.0   | 24.2    | 137.1  | 100.0     | 71         | 90                   |              |
| Na+                           | 1.00       | 0.12  | 2.44    | 137.1  | 98.1      | 0          | 16                   | A            |
| SO4-- corr                    | 0.86       | 0.21  | 1.76    | 117.6  | 98.1      | 0          | 16                   | A            |
| SO4--                         | 0.94       | 0.24  | 1.83    | 129.0  | 98.1      | 0          | 16                   | A            |

|                       |            |       |         |       |           |            |              |            |              |
|-----------------------|------------|-------|---------|-------|-----------|------------|--------------|------------|--------------|
| EE0011R               | Vilsandi   |       | Estonia |       |           |            |              |            |              |
| March 1999 - May 1999 |            |       |         |       |           |            |              |            |              |
| Component             | W.<br>mean | Min   | Max     | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.64       | 0.14  | 3.25    | 50.0  | 100.0     | 0          | 14           | A          |              |
| Ca++                  | 0.68       | 0.30  | 1.20    | 53.1  | 98.2      | 0          | 13           | B          |              |
| Cl-                   | 0.92       | 0.20  | 2.20    | 72.5  | 100.0     | 0          | 14           | B          |              |
| Mg++                  | 0.127      | 0.040 | 0.760   | 10.0  | 98.2      | 0          | 13           | B          |              |
| NO3-                  | 0.67       | 0.14  | 1.73    | 52.6  | 100.0     | 0          | 14           | A          |              |
| pH                    | 4.99       | 4.15  | 6.04    | 811.1 | 100.0     | 0          | 14           | B          |              |
| K+                    | 0.39       | 0.05  | 2.62    | 30.7  | 98.2      | 4          | 13           | B          |              |
| Precip                | -          | 0.0   | 17.4    | 78.5  | 100.0     | 78         | 92           |            |              |
| Na+                   | 0.39       | 0.05  | 1.32    | 30.3  | 98.2      | 1          | 13           | A          |              |
| SO4-- corr            | 0.92       | 0.34  | 3.45    | 72.0  | 100.0     | 0          | 14           | A          |              |
| SO4--                 | 0.98       | 0.37  | 3.52    | 76.9  | 100.0     | 0          | 14           | A          |              |

|                         |            |       |         |        |           |            |              |            |              |
|-------------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| EE0011R                 | Vilsandi   |       | Estonia |        |           |            |              |            |              |
| June 1999 - August 1999 |            |       |         |        |           |            |              |            |              |
| Component               | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.09       | 0.00  | 0.30    | 12.3   | 99.0      | 3          | 13           | A          |              |
| Ca++                    | 0.64       | 0.10  | 3.90    | 86.8   | 99.0      | 0          | 13           | B          |              |
| Cl-                     | 0.55       | 0.10  | 2.50    | 74.8   | 100.0     | 0          | 14           | B          |              |
| Mg++                    | 0.093      | 0.050 | 0.370   | 12.6   | 99.0      | 0          | 13           | B          |              |
| NO3-                    | 0.26       | 0.04  | 0.74    | 35.9   | 100.0     | 0          | 14           | A          |              |
| pH                      | 5.03       | 4.13  | 7.43    | 1253.3 | 100.0     | 0          | 14           | B          |              |
| K+                      | 0.22       | 0.05  | 5.10    | 30.1   | 99.0      | 5          | 13           | B          |              |
| Precip                  | -          | 0.0   | 34.2    | 135.2  | 100.0     | 78         | 92           |            |              |
| Na+                     | 0.31       | 0.05  | 1.11    | 41.7   | 99.0      | 1          | 13           | A          |              |
| SO4-- corr              | 0.48       | 0.20  | 3.05    | 64.4   | 100.0     | 0          | 14           | A          |              |
| SO4--                   | 0.51       | 0.22  | 3.31    | 69.1   | 100.0     | 0          | 14           | A          |              |

|                                |            |       |         |        |           |            |              |            |              |
|--------------------------------|------------|-------|---------|--------|-----------|------------|--------------|------------|--------------|
| EE0011R                        | Vilsandi   |       | Estonia |        |           |            |              |            |              |
| September 1999 - November 1999 |            |       |         |        |           |            |              |            |              |
| Component                      | W.<br>mean | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.34       | 0.00  | 0.75    | 49.7   | 100.0     | 1          | 15           | A          |              |
| Ca++                           | 0.49       | 0.10  | 1.80    | 72.5   | 100.0     | 0          | 15           | B          |              |
| Cl-                            | 1.26       | 0.20  | 9.10    | 185.9  | 100.0     | 0          | 15           | B          |              |
| Mg++                           | 0.123      | 0.040 | 0.730   | 18.2   | 100.0     | 0          | 15           | B          |              |
| NO3-                           | 0.24       | 0.03  | 0.70    | 35.1   | 100.0     | 0          | 15           | A          |              |
| pH                             | 4.85       | 4.13  | 6.69    | 2072.2 | 100.0     | 0          | 15           | B          |              |
| K+                             | 0.07       | 0.05  | 0.14    | 10.3   | 100.0     | 10         | 15           | B          |              |
| Precip                         | -          | 0.0   | 28.7    | 147.8  | 100.0     | 76         | 91           |            |              |
| Na+                            | 0.66       | 0.11  | 5.30    | 97.8   | 100.0     | 0          | 15           | A          |              |
| SO4-- corr                     | 0.47       | 0.15  | 1.20    | 68.8   | 100.0     | 0          | 15           | A          |              |
| SO4--                          | 0.53       | 0.18  | 1.24    | 78.1   | 100.0     | 0          | 15           | A          |              |

|                               |            |       |       |       |           |            |              |            |              |
|-------------------------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| ES0001R                       | Toledo     |       | Spain |       |           |            |              |            |              |
| December 1998 - February 1999 |            |       |       |       |           |            |              |            |              |
| Component                     | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.15       | 0.01  | 1.61  | 7.3   | 98.6      | 0          | 11           | A          |              |
| Ca++                          | 0.39       | 0.14  | 1.88  | 19.2  | 98.6      | 0          | 11           | A          |              |
| Cl-                           | 0.53       | 0.25  | 1.98  | 26.5  | 98.6      | 0          | 11           | D          |              |
| Mg++                          | 0.061      | 0.030 | 0.160 | 3.0   | 98.6      | 0          | 11           | A          |              |
| NO3-                          | 0.16       | 0.08  | 0.93  | 7.7   | 98.6      | 0          | 11           | A          |              |
| pH                            | 5.32       | 5.14  | 7.07  | 239.9 | 100.0     | 0          | 12           | B          |              |
| K+                            | 0.07       | 0.03  | 0.22  | 3.5   | 98.6      | 5          | 11           | A          |              |
| Precip                        | -          | 0.0   | 19.4  | 49.8  | 94.4      | 81         | 85           |            |              |
| Na+                           | 0.46       | 0.11  | 9.60  | 23.0  | 98.6      | 0          | 11           | A          |              |
| SO4-- corr                    | 0.48       | 0.22  | 2.40  | 24.0  | 98.6      | 0          | 11           | A          |              |
| SO4--                         | 0.51       | 0.24  | 2.51  | 25.4  | 98.6      | 0          | 11           | A          |              |

ES0001R Toledo Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.23       | 0.04  | 0.84  | 31.7  | 98.5      | 2          | 24                   | A            |
| Ca++       | 0.53       | 0.20  | 2.78  | 72.0  | 95.9      | 0          | 20                   | A            |
| Cl-        | 0.86       | 0.61  | 3.60  | 117.4 | 99.1      | 0          | 25                   | D            |
| Mg++       | 0.065      | 0.030 | 0.240 | 8.9   | 95.9      | 0          | 20                   | A            |
| NO3-       | 0.28       | 0.17  | 1.53  | 37.8  | 99.1      | 0          | 25                   | A            |
| pH         | 5.84       | 5.46  | 7.33  | 196.2 | 99.9      | 0          | 28                   | B            |
| K+         | 0.11       | 0.03  | 0.30  | 14.6  | 95.9      | 3          | 20                   | A            |
| Precip     | -          | 0.0   | 25.0  | 137.0 | 100.0     | 63         | 92                   |              |
| Na+        | 0.32       | 0.12  | 3.30  | 44.4  | 95.9      | 0          | 20                   | A            |
| SO4-- corr | 0.56       | 0.33  | 1.53  | 77.2  | 99.1      | 0          | 25                   | A            |
| SO4--      | 0.60       | 0.36  | 1.70  | 81.7  | 99.1      | 0          | 25                   | A            |

ES0001R Toledo Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | 0.45       | 0.09  | 1.30  | 7.6  | 94.0      | 0          | 6                    | A            |
| Ca++       | 1.15       | 0.58  | 2.61  | 19.4 | 86.9      | 0          | 5                    | A            |
| Cl-        | 0.82       | 0.60  | 1.51  | 13.8 | 100.0     | 0          | 7                    | D            |
| Mg++       | 0.109      | 0.080 | 0.210 | 1.8  | 86.9      | 0          | 5                    | A            |
| NO3-       | 0.63       | 0.23  | 2.16  | 10.5 | 100.0     | 0          | 7                    | A            |
| pH         | 6.29       | 5.99  | 6.57  | 8.5  | 100.0     | 0          | 7                    | B            |
| K+         | 0.14       | 0.09  | 0.27  | 2.4  | 86.9      | 0          | 5                    | A            |
| Precip     | -          | 0.0   | 7.6   | 16.8 | 100.0     | 86         | 92                   |              |
| Na+        | 0.28       | 0.14  | 0.66  | 4.7  | 86.9      | 0          | 5                    | A            |
| SO4-- corr | 0.75       | 0.31  | 2.00  | 12.6 | 100.0     | 0          | 7                    | A            |
| SO4--      | 0.81       | 0.37  | 2.06  | 13.6 | 100.0     | 0          | 7                    | A            |

ES0001R Toledo Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.10       | 0.04  | 0.86  | 17.8  | 99.8      | 12         | 24                   | A            |
| Ca++       | 0.34       | 0.07  | 2.20  | 57.4  | 99.3      | 0          | 23                   | A            |
| Cl-        | 0.97       | 0.46  | 2.22  | 164.5 | 99.8      | 0          | 24                   | D            |
| Mg++       | 0.060      | 0.030 | 0.230 | 10.2  | 99.3      | 0          | 23                   | A            |
| NO3-       | 0.18       | 0.04  | 0.90  | 31.1  | 99.8      | 1          | 24                   | A            |
| pH         | 5.97       | 5.61  | 6.43  | 181.7 | 100.0     | 0          | 26                   | B            |
| K+         | 0.08       | 0.03  | 0.94  | 12.9  | 99.3      | 1          | 23                   | A            |
| Precip     | -          | 0.0   | 26.8  | 169.4 | 100.0     | 68         | 91                   |              |
| Na+        | 0.42       | 0.10  | 1.24  | 71.5  | 99.3      | 0          | 23                   | A            |
| SO4-- corr | 0.34       | 0.22  | 1.05  | 58.4  | 99.8      | 0          | 24                   | A            |
| SO4--      | 0.39       | 0.25  | 1.21  | 66.0  | 99.8      | 0          | 24                   | A            |

ES0003R Roquetas Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.21       | 0.01  | 2.02  | 22.9  | 100.0     | 0          | 11                   | A            |
| Ca++       | 0.92       | 0.67  | 4.08  | 98.5  | 100.0     | 0          | 10                   | A            |
| Cl-        | 0.78       | 0.49  | 6.06  | 84.2  | 100.0     | 0          | 11                   | D            |
| Mg++       | 0.136      | 0.110 | 1.020 | 14.6  | 100.0     | 0          | 10                   | A            |
| NO3-       | 0.20       | 0.10  | 1.72  | 21.3  | 100.0     | 0          | 11                   | A            |
| pH         | 5.19       | 5.17  | 6.96  | 695.5 | 100.0     | 0          | 11                   | B            |
| K+         | 0.04       | 0.03  | 0.54  | 3.7   | 100.0     | 1          | 10                   | A            |
| Precip     | -          | 0.0   | 53.1  | 107.4 | 34.4      | 27         | 31                   |              |
| Na+        | 0.51       | 0.30  | 4.50  | 55.3  | 100.0     | 0          | 10                   | A            |
| SO4-- corr | 0.36       | 0.16  | 2.26  | 38.2  | 100.0     | 0          | 11                   | A            |
| SO4--      | 0.40       | 0.20  | 2.64  | 42.8  | 100.0     | 0          | 11                   | A            |

ES0003R Roquetas Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|----------------------|--------------|
| NH4+       | -          | 0.10  | 1.90  | -   | 0.0       | 0          | 19 A                 |              |
| Ca++       | -          | 1.45  | 8.10  | -   | 0.0       | 0          | 17 A                 |              |
| Cl-        | -          | 0.54  | 12.98 | -   | 0.0       | 0          | 21 D                 |              |
| Mg++       | -          | 0.120 | 0.800 | -   | 0.0       | 0          | 17 A                 |              |
| NO3-       | -          | 0.22  | 3.53  | -   | 0.0       | 0          | 21 A                 |              |
| pH         | -          | 6.28  | 7.68  | -   | 0.0       | 0          | 23 B                 |              |
| K+         | -          | 0.07  | 0.48  | -   | 0.0       | 0          | 17 A                 |              |
| Na+        | -          | 0.08  | 4.90  | -   | 0.0       | 0          | 17 A                 |              |
| SO4-- corr | -          | 0.29  | 6.99  | -   | 0.0       | 0          | 21 A                 |              |
| SO4--      | -          | 0.37  | 7.60  | -   | 0.0       | 0          | 21 A                 |              |

ES0003R Roquetas Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|----------------------|--------------|
| NH4+       | -          | 0.53  | 2.43  | -   | 0.0       | 0          | 11 A                 |              |
| Ca++       | -          | 2.47  | 12.80 | -   | 0.0       | 0          | 9 A                  |              |
| Cl-        | -          | 0.58  | 13.84 | -   | 0.0       | 0          | 14 D                 |              |
| Mg++       | -          | 0.310 | 1.600 | -   | 0.0       | 0          | 9 A                  |              |
| NO3-       | -          | 0.77  | 6.80  | -   | 0.0       | 0          | 13 A                 |              |
| pH         | -          | 6.81  | 7.86  | -   | 0.0       | 0          | 18 B                 |              |
| K+         | -          | 0.09  | 0.63  | -   | 0.0       | 0          | 9 A                  |              |
| Na+        | -          | 0.17  | 8.80  | -   | 0.0       | 0          | 9 A                  |              |
| SO4-- corr | -          | 0.98  | 6.55  | -   | 0.0       | 0          | 13 A                 |              |
| SO4--      | -          | 0.99  | 7.04  | -   | 0.0       | 0          | 13 A                 |              |

ES0003R Roquetas Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|----------------------|--------------|
| NH4+       | -          | 0.04  | 3.06  | -   | 0.0       | 1          | 16 A                 |              |
| Ca++       | -          | 1.05  | 17.00 | -   | 0.0       | 0          | 15 A                 |              |
| Cl-        | -          | 0.79  | 23.75 | -   | 0.0       | 0          | 18 D                 |              |
| Mg++       | -          | 0.140 | 1.900 | -   | 0.0       | 0          | 15 A                 |              |
| NO3-       | -          | 0.27  | 6.54  | -   | 0.0       | 0          | 18 A                 |              |
| pH         | -          | 6.30  | 7.05  | -   | 0.0       | 0          | 18 B                 |              |
| K+         | -          | 0.06  | 0.90  | -   | 0.0       | 0          | 15 A                 |              |
| Na+        | -          | 0.17  | 13.30 | -   | 0.0       | 0          | 15 A                 |              |
| SO4-- corr | -          | 0.54  | 9.28  | -   | 0.0       | 0          | 18 A                 |              |
| SO4--      | -          | 0.61  | 9.43  | -   | 0.0       | 0          | 18 A                 |              |

ES0004R Logrono Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.88       | 0.10  | 1.28  | 43.8  | 85.5      | 0          | 11 A                 |              |
| Ca++       | 2.08       | 0.45  | 3.99  | 103.2 | 85.5      | 0          | 9 A                  |              |
| Cl-        | 1.58       | 0.26  | 5.33  | 78.7  | 85.5      | 0          | 11 D                 |              |
| Mg++       | 0.188      | 0.050 | 0.280 | 9.3   | 85.5      | 0          | 9 A                  |              |
| NO3-       | 0.56       | 0.09  | 1.43  | 28.0  | 85.5      | 0          | 11 A                 |              |
| pH         | 5.70       | 5.18  | 7.03  | 99.2  | 89.5      | 0          | 15 B                 |              |
| K+         | 0.10       | 0.03  | 0.35  | 5.0   | 85.5      | 3          | 9 A                  |              |
| Precip     | -          | 0.0   | 9.4   | 49.7  | 93.3      | 77         | 84                   |              |
| Na+        | 0.89       | 0.05  | 3.50  | 44.5  | 85.5      | 0          | 9 A                  |              |
| SO4-- corr | 0.98       | 0.17  | 1.64  | 48.7  | 60.8      | 0          | 9 A                  |              |
| SO4--      | 1.01       | 0.20  | 1.66  | 50.3  | 60.8      | 0          | 9 A                  |              |

ES0004R Logrono Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.69       | 0.11  | 1.88  | 52.9  | 95.3      | 0          | 23                   | A            |
| Ca++       | 1.75       | 0.88  | 7.00  | 134.3 | 94.0      | 0          | 22                   | A            |
| Cl-        | 0.96       | 0.58  | 4.79  | 73.2  | 100.0     | 0          | 27                   | D            |
| Mg++       | 0.103      | 0.010 | 0.350 | 7.9   | 94.0      | 0          | 22                   | A            |
| NO3-       | 0.57       | 0.27  | 1.92  | 44.0  | 100.0     | 0          | 27                   | A            |
| pH         | 6.44       | 6.14  | 7.16  | 28.0  | 100.0     | 0          | 27                   | B            |
| K+         | 0.16       | 0.03  | 0.67  | 12.4  | 94.0      | 6          | 22                   | A            |
| Precip     | -          | 0.0   | 9.8   | 76.6  | 98.9      | 65         | 91                   |              |
| Na+        | 0.38       | 0.10  | 8.70  | 29.1  | 94.0      | 0          | 22                   | A            |
| SO4-- corr | 0.87       | 0.40  | 4.93  | 66.3  | 100.0     | 0          | 27                   | A            |
| SO4--      | 0.93       | 0.44  | 5.17  | 71.1  | 100.0     | 0          | 27                   | A            |

ES0004R Logrono Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.91       | 0.24  | 1.70  | 48.7  | 98.5      | 0          | 11                   | A            |
| Ca++       | 2.45       | 0.97  | 6.50  | 130.7 | 98.5      | 0          | 11                   | A            |
| Cl-        | 0.77       | 0.48  | 2.76  | 41.4  | 100.0     | 0          | 12                   | D            |
| Mg++       | 0.156      | 0.060 | 0.390 | 8.3   | 98.5      | 0          | 11                   | A            |
| NO3-       | 0.87       | 0.24  | 2.86  | 46.5  | 100.0     | 0          | 12                   | A            |
| pH         | 6.57       | 6.18  | 7.14  | 14.4  | 100.0     | 0          | 12                   | B            |
| K+         | 0.13       | 0.06  | 0.28  | 7.1   | 98.5      | 0          | 11                   | A            |
| Precip     | -          | 0.0   | 16.8  | 53.4  | 100.0     | 81         | 92                   |              |
| Na+        | 0.42       | 0.12  | 0.73  | 22.4  | 98.5      | 0          | 11                   | A            |
| SO4-- corr | 1.29       | 0.38  | 2.66  | 68.8  | 98.5      | 0          | 11                   | A            |
| SO4--      | 1.33       | 0.43  | 2.72  | 71.1  | 98.5      | 0          | 11                   | A            |

ES0004R Logrono Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 1.33       | 0.14  | 3.65  | 111.3 | 98.6      | 0          | 21                   | A            |
| Ca++       | 1.32       | 0.33  | 3.67  | 110.6 | 97.1      | 0          | 19                   | A            |
| Cl-        | 1.26       | 0.56  | 3.84  | 105.0 | 99.0      | 0          | 22                   | D            |
| Mg++       | 0.113      | 0.030 | 0.240 | 9.4   | 97.1      | 0          | 19                   | A            |
| NO3-       | 0.76       | 0.29  | 2.25  | 63.6  | 96.4      | 0          | 20                   | A            |
| pH         | 6.35       | 5.66  | 7.19  | 37.7  | 100.0     | 0          | 25                   | B            |
| K+         | 0.25       | 0.03  | 1.70  | 21.1  | 97.1      | 1          | 19                   | A            |
| Precip     | -          | 0.0   | 10.8  | 83.6  | 97.8      | 66         | 89                   |              |
| Na+        | 0.43       | 0.11  | 1.91  | 36.0  | 97.1      | 0          | 19                   | A            |
| SO4-- corr | 1.08       | 0.38  | 3.29  | 90.0  | 99.0      | 0          | 22                   | A            |
| SO4--      | 1.14       | 0.40  | 3.47  | 95.3  | 99.0      | 0          | 22                   | A            |

ES0005R Noia Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | -          | 0.01  | 0.56  | -    | 0.0       | 0          | 9                    | A            |
| Ca++       | -          | 0.14  | 1.37  | -    | 0.0       | 0          | 9                    | A            |
| Cl-        | -          | 1.91  | 10.03 | -    | 0.0       | 0          | 9                    | D            |
| Mg++       | -          | 0.120 | 0.670 | -    | 0.0       | 0          | 9                    | A            |
| NO3-       | -          | 0.06  | 1.19  | -    | 0.0       | 0          | 9                    | A            |
| pH         | -          | 5.27  | 5.37  | -    | 0.0       | 0          | 10                   | B            |
| K+         | -          | 0.03  | 0.53  | -    | 0.0       | 0          | 9                    | A            |
| Precip     | -          | 0.0   | 37.6  | 73.7 | 34.4      | 28         | 31                   |              |
| Na+        | -          | 1.11  | 7.20  | -    | 0.0       | 0          | 9                    | A            |
| SO4-- corr | -          | 0.25  | 2.03  | -    | 0.0       | 0          | 9                    | A            |
| SO4--      | -          | 0.36  | 2.45  | -    | 0.0       | 0          | 9                    | A            |

ES0005R Noia Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|--------------|------------|--------------|
| NH4+       | -          | 0.04  | 1.47  | -   | 0.0       | 2          | 19           | A          |              |
| Ca++       | -          | 0.09  | 0.94  | -   | 0.0       | 0          | 19           | A          |              |
| Cl-        | -          | 0.77  | 8.87  | -   | 0.0       | 0          | 19           | D          |              |
| Mg++       | -          | 0.040 | 0.800 | -   | 0.0       | 0          | 19           | A          |              |
| NO3-       | -          | 0.16  | 1.63  | -   | 0.0       | 0          | 19           | A          |              |
| pH         | -          | 4.47  | 5.88  | -   | 0.0       | 0          | 19           | B          |              |
| K+         | -          | 0.03  | 0.29  | -   | 0.0       | 2          | 19           | A          |              |
| Na+        | -          | 0.33  | 7.10  | -   | 0.0       | 0          | 19           | A          |              |
| SO4-- corr | -          | 0.28  | 1.84  | -   | 0.0       | 0          | 19           | A          |              |
| SO4--      | -          | 0.42  | 2.33  | -   | 0.0       | 0          | 19           | A          |              |

ES0005R Noia Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|--------------|------------|--------------|
| NH4+       | -          | 0.04  | 0.67  | -   | 0.0       | 7          | 17           | A          |              |
| Ca++       | -          | 0.08  | 0.66  | -   | 0.0       | 0          | 15           | A          |              |
| Cl-        | -          | 0.66  | 6.69  | -   | 0.0       | 0          | 17           | D          |              |
| Mg++       | -          | 0.030 | 0.510 | -   | 0.0       | 0          | 15           | A          |              |
| NO3-       | -          | 0.07  | 0.83  | -   | 0.0       | 0          | 17           | A          |              |
| pH         | -          | 4.36  | 6.53  | -   | 0.0       | 0          | 17           | B          |              |
| K+         | -          | 0.03  | 0.28  | -   | 0.0       | 2          | 15           | A          |              |
| Na+        | -          | 0.23  | 5.20  | -   | 0.0       | 0          | 15           | A          |              |
| SO4-- corr | -          | 0.28  | 1.86  | -   | 0.0       | 0          | 17           | A          |              |
| SO4--      | -          | 0.32  | 2.00  | -   | 0.0       | 0          | 17           | A          |              |

ES0005R Noia Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-----|-----------|------------|--------------|------------|--------------|
| NH4+       | -          | 0.04  | 0.58  | -   | 0.0       | 19         | 25           | A          |              |
| Ca++       | -          | 0.10  | 1.19  | -   | 0.0       | 0          | 25           | A          |              |
| Cl-        | -          | 1.42  | 15.48 | -   | 0.0       | 0          | 25           | D          |              |
| Mg++       | -          | 0.080 | 1.100 | -   | 0.0       | 0          | 25           | A          |              |
| NO3-       | -          | 0.04  | 0.72  | -   | 0.0       | 1          | 25           | A          |              |
| pH         | -          | 4.69  | 6.10  | -   | 0.0       | 0          | 25           | B          |              |
| K+         | -          | 0.05  | 0.33  | -   | 0.0       | 0          | 25           | A          |              |
| Na+        | -          | 0.63  | 8.80  | -   | 0.0       | 0          | 25           | A          |              |
| SO4-- corr | -          | 0.09  | 0.95  | -   | 0.0       | 0          | 25           | A          |              |
| SO4--      | -          | 0.31  | 1.44  | -   | 0.0       | 0          | 25           | A          |              |

ES0007R Viznar Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.34       | 0.01  | 1.39  | 23.0  | 99.7      | 0          | 12           | A          |              |
| Ca++       | 1.35       | 0.88  | 6.50  | 92.2  | 99.7      | 0          | 12           | A          |              |
| Cl-        | 0.63       | 0.29  | 1.89  | 42.8  | 100.0     | 0          | 13           | D          |              |
| Mg++       | 0.239      | 0.140 | 1.020 | 16.3  | 99.7      | 0          | 12           | A          |              |
| NO3-       | 0.32       | 0.16  | 1.70  | 21.8  | 100.0     | 0          | 13           | A          |              |
| pH         | 5.57       | 5.20  | 7.26  | 185.4 | 100.0     | 0          | 13           | B          |              |
| K+         | 0.24       | 0.15  | 0.89  | 16.2  | 99.7      | 0          | 12           | A          |              |
| Precip     | -          | 0.0   | 16.7  | 68.1  | 94.4      | 80         | 85           |            |              |
| Na+        | 0.35       | 0.08  | 1.51  | 23.7  | 99.7      | 0          | 12           | A          |              |
| SO4-- corr | 0.74       | 0.37  | 3.48  | 50.1  | 100.0     | 0          | 13           | A          |              |
| SO4--      | 0.76       | 0.38  | 3.61  | 52.1  | 100.0     | 0          | 13           | A          |              |

ES0007R Viznar Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.37       | 0.04  | 0.82  | 28.0  | 97.9      | 3          | 15                   | A            |
| Ca++       | 2.49       | 1.58  | 7.30  | 189.3 | 93.9      | 0          | 13                   | A            |
| Cl-        | 1.70       | 0.83  | 6.48  | 129.5 | 100.0     | 0          | 18                   | D            |
| Mg++       | 0.395      | 0.200 | 0.700 | 30.1  | 93.9      | 0          | 13                   | A            |
| NO3-       | 0.62       | 0.31  | 3.19  | 47.4  | 100.0     | 0          | 18                   | A            |
| pH         | 6.47       | 6.17  | 6.93  | 25.5  | 100.0     | 0          | 18                   | B            |
| K+         | 0.26       | 0.18  | 0.44  | 19.5  | 93.9      | 0          | 13                   | A            |
| Precip     | -          | 0.0   | 15.8  | 76.0  | 100.0     | 74         | 92                   |              |
| Na+        | 0.90       | 0.25  | 2.90  | 68.6  | 93.9      | 0          | 13                   | A            |
| SO4-- corr | 1.12       | 0.75  | 4.85  | 84.8  | 100.0     | 0          | 18                   | A            |
| SO4--      | 1.21       | 0.79  | 5.15  | 92.3  | 100.0     | 0          | 18                   | A            |

ES0007R Viznar Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | 0.50       | 0.04  | 0.67  | 2.1  | 85.7      | 2          | 3                    | A            |
| Ca++       | 9.90       | 9.90  | 9.90  | 41.6 | 61.9      | 0          | 1                    | A            |
| Cl-        | 2.35       | 1.35  | 4.78  | 9.9  | 90.5      | 0          | 4                    | D            |
| Mg++       | 1.500      | 1.500 | 1.500 | 6.3  | 61.9      | 0          | 1                    | A            |
| NO3-       | 2.87       | 2.13  | 5.31  | 12.1 | 90.5      | 0          | 4                    | A            |
| pH         | 6.85       | 6.59  | 6.98  | 0.6  | 100.0     | 0          | 5                    | B            |
| K+         | 0.62       | 0.62  | 0.62  | 2.6  | 61.9      | 0          | 1                    | A            |
| Precip     | -          | 0.0   | 2.6   | 4.2  | 100.0     | 87         | 92                   |              |
| Na+        | 1.02       | 1.02  | 1.02  | 4.3  | 61.9      | 0          | 1                    | A            |
| SO4-- corr | 3.48       | 2.57  | 6.18  | 14.6 | 90.5      | 0          | 4                    | A            |
| SO4--      | 3.61       | 2.65  | 6.39  | 15.2 | 90.5      | 0          | 4                    | A            |

ES0007R Viznar Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.08       | 0.04  | 0.72  | 20.4  | 99.8      | 9          | 15                   | A            |
| Ca++       | 1.47       | 0.75  | 2.83  | 386.4 | 99.8      | 0          | 15                   | A            |
| Cl-        | 0.72       | 0.42  | 2.79  | 189.1 | 100.0     | 0          | 17                   | D            |
| Mg++       | 0.206      | 0.060 | 0.800 | 54.2  | 99.8      | 0          | 15                   | A            |
| NO3-       | 0.25       | 0.12  | 1.33  | 67.0  | 100.0     | 0          | 17                   | A            |
| pH         | 6.32       | 6.19  | 6.88  | 125.6 | 100.0     | 0          | 17                   | B            |
| K+         | 0.09       | 0.03  | 0.24  | 22.8  | 99.8      | 1          | 15                   | A            |
| Precip     | -          | 0.0   | 72.6  | 263.0 | 100.0     | 75         | 91                   |              |
| Na+        | 0.37       | 0.05  | 1.10  | 97.0  | 99.8      | 1          | 15                   | A            |
| SO4-- corr | 0.43       | 0.23  | 2.93  | 112.6 | 100.0     | 0          | 17                   | A            |
| SO4--      | 0.47       | 0.25  | 3.01  | 122.8 | 100.0     | 0          | 17                   | A            |

ES0008R Niembro Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.03  | 7.19  | 71.3   | 100.0     | 3          | 33                   | A            |
| Ca++       | 1.21       | 0.21  | 5.73  | 247.6  | 99.5      | 0          | 31                   | A            |
| Cl-        | 8.65       | 2.55  | 22.64 | 1772.8 | 100.0     | 0          | 33                   | D            |
| Mg++       | 0.674      | 0.200 | 1.800 | 138.2  | 99.5      | 0          | 31                   | A            |
| NO3-       | 0.73       | 0.05  | 7.25  | 149.7  | 100.0     | 0          | 33                   | A            |
| pH         | 4.77       | 4.19  | 7.05  | 3470.6 | 100.0     | 0          | 34                   | B            |
| K+         | 0.25       | 0.12  | 0.76  | 51.3   | 99.5      | 0          | 31                   | A            |
| Precip     | -          | 0.0   | 35.8  | 205.0  | 87.8      | 61         | 79                   |              |
| Na+        | 5.93       | 2.20  | 13.90 | 1215.1 | 99.5      | 0          | 31                   | A            |
| SO4-- corr | 1.19       | 0.18  | 6.46  | 243.9  | 100.0     | 0          | 33                   | A            |
| SO4--      | 1.67       | 0.44  | 6.67  | 341.7  | 100.0     | 0          | 33                   | A            |

| ES0008R               |            | Niembro |       | Spain  |           |            |                      |              |
|-----------------------|------------|---------|-------|--------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |         |       |        |           |            |                      |              |
| Component             | W.<br>mean | Min     | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.39       | 0.04    | 7.19  | 84.6   | 98.3      | 6          | 34                   | A            |
| Ca++                  | 0.73       | 0.15    | 5.73  | 159.6  | 89.9      | 0          | 32                   | A            |
| Cl-                   | 6.75       | 0.72    | 25.06 | 1480.2 | 100.0     | 0          | 35                   | D            |
| Mg++                  | 0.521      | 0.060   | 1.800 | 114.2  | 89.9      | 0          | 32                   | A            |
| NO3-                  | 0.59       | 0.05    | 7.25  | 129.8  | 100.0     | 0          | 35                   | A            |
| pH                    | 4.93       | 4.06    | 7.05  | 2590.1 | 100.0     | 0          | 35                   | B            |
| K+                    | 0.23       | 0.03    | 0.76  | 49.7   | 89.9      | 1          | 32                   | A            |
| Precip                | -          | 0.0     | 36.8  | 219.2  | 100.0     | 65         | 92                   |              |
| Na+                   | 5.09       | 0.26    | 16.40 | 1115.0 | 89.9      | 0          | 32                   | A            |
| SO4-- corr            | 0.95       | 0.31    | 6.46  | 208.7  | 100.0     | 0          | 35                   | A            |
| SO4--                 | 1.29       | 0.33    | 6.67  | 283.4  | 100.0     | 0          | 35                   | A            |

| ES0008R                 |            | Niembro |       | Spain |           |            |                      |              |
|-------------------------|------------|---------|-------|-------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |         |       |       |           |            |                      |              |
| Component               | W.<br>mean | Min     | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 1.62       | 0.28    | 3.42  | 51.2  | 100.0     | 0          | 21                   | A            |
| Ca++                    | 1.38       | 0.29    | 2.08  | 43.8  | 76.6      | 0          | 19                   | A            |
| Cl-                     | 7.69       | 1.32    | 21.10 | 243.1 | 100.0     | 0          | 21                   | D            |
| Mg++                    | 0.702      | 0.120   | 1.500 | 22.2  | 76.6      | 0          | 19                   | A            |
| NO3-                    | 1.24       | 0.38    | 2.70  | 39.1  | 100.0     | 0          | 21                   | A            |
| pH                      | 4.61       | 4.01    | 6.18  | 781.4 | 100.0     | 0          | 21                   | B            |
| K+                      | 0.36       | 0.13    | 0.80  | 11.5  | 76.6      | 0          | 19                   | A            |
| Precip                  | -          | 0.0     | 9.0   | 31.6  | 100.0     | 80         | 92                   |              |
| Na+                     | 5.31       | 0.87    | 12.50 | 167.7 | 76.6      | 0          | 19                   | A            |
| SO4-- corr              | 2.39       | 0.97    | 4.38  | 75.5  | 100.0     | 0          | 21                   | A            |
| SO4--                   | 2.79       | 1.18    | 4.79  | 88.2  | 100.0     | 0          | 21                   | A            |

| ES0008R                        |            | Niembro |       | Spain  |           |            |                      |              |
|--------------------------------|------------|---------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |         |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min     | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.19       | 0.04    | 0.93  | 41.6   | 95.8      | 8          | 36                   | A            |
| Ca++                           | 0.50       | 0.13    | 1.46  | 110.7  | 95.8      | 0          | 36                   | A            |
| Cl-                            | 9.70       | 0.99    | 26.38 | 2127.3 | 100.0     | 0          | 38                   | D            |
| Mg++                           | 0.641      | 0.080   | 1.700 | 140.6  | 95.8      | 0          | 36                   | A            |
| NO3-                           | 0.41       | 0.14    | 1.20  | 89.4   | 100.0     | 0          | 38                   | A            |
| pH                             | 4.97       | 4.40    | 6.12  | 2319.3 | 100.0     | 0          | 38                   | B            |
| K+                             | 0.26       | 0.06    | 0.72  | 56.6   | 95.8      | 0          | 36                   | A            |
| Precip                         | -          | 0.0     | 27.0  | 219.2  | 100.0     | 62         | 91                   |              |
| Na+                            | 6.59       | 0.49    | 20.90 | 1444.9 | 95.8      | 0          | 36                   | A            |
| SO4-- corr                     | 0.66       | 0.25    | 2.01  | 144.5  | 100.0     | 0          | 38                   | A            |
| SO4--                          | 1.12       | 0.40    | 2.57  | 245.5  | 100.0     | 0          | 38                   | A            |

| ES0009R                       |            | Campisabalos |       | Spain |           |            |                      |              |
|-------------------------------|------------|--------------|-------|-------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |              |       |       |           |            |                      |              |
| Component                     | W.<br>mean | Min          | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.41       | 0.02         | 1.72  | 25.7  | 95.6      | 1          | 18                   | A            |
| Ca++                          | 1.43       | 0.24         | 5.37  | 90.9  | 95.0      | 0          | 17                   | A            |
| Cl-                           | 0.80       | 0.32         | 3.35  | 50.4  | 96.8      | 0          | 20                   | D            |
| Mg++                          | 0.102      | 0.030        | 0.300 | 6.4   | 95.0      | 0          | 17                   | A            |
| NO3-                          | 0.31       | 0.10         | 1.02  | 19.3  | 96.8      | 0          | 20                   | A            |
| pH                            | 5.35       | 4.90         | 7.42  | 283.5 | 99.1      | 0          | 24                   | B            |
| K+                            | 0.12       | 0.03         | 0.33  | 7.5   | 95.0      | 5          | 17                   | A            |
| Precip                        | -          | 0.0          | 20.4  | 63.4  | 93.3      | 68         | 84                   |              |
| Na+                           | 0.27       | 0.15         | 1.35  | 17.3  | 95.0      | 0          | 17                   | A            |
| SO4-- corr                    | 0.65       | 0.20         | 1.69  | 41.4  | 96.8      | 0          | 20                   | A            |
| SO4--                         | 0.70       | 0.22         | 1.74  | 44.1  | 96.8      | 0          | 20                   | A            |

ES0009R Campisabalos Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.42       | 0.03  | 1.72  | 58.3  | 97.7      | 2          | 34                   | A            |
| Ca++       | 0.77       | 0.15  | 2.77  | 107.5 | 96.7      | 0          | 30                   | A            |
| Cl-        | 0.91       | 0.47  | 3.35  | 126.3 | 98.9      | 0          | 37                   | D            |
| Mg++       | 0.074      | 0.020 | 0.220 | 10.3  | 96.7      | 0          | 30                   | A            |
| NO3-       | 0.35       | 0.14  | 1.32  | 48.8  | 98.9      | 0          | 37                   | A            |
| pH         | 6.10       | 5.31  | 7.22  | 110.3 | 99.6      | 0          | 39                   | B            |
| K+         | 0.06       | 0.03  | 0.25  | 9.0   | 96.7      | 10         | 30                   | A            |
| Precip     | -          | 0.0   | 24.4  | 139.4 | 100.0     | 55         | 92                   |              |
| Na+        | 0.31       | 0.05  | 2.01  | 42.6  | 96.7      | 3          | 30                   | A            |
| SO4-- corr | 0.53       | 0.18  | 1.69  | 73.8  | 98.9      | 0          | 37                   | A            |
| SO4--      | 0.57       | 0.20  | 1.74  | 79.7  | 98.9      | 0          | 37                   | A            |

ES0009R Campisabalos Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.46       | 0.15  | 2.14  | 35.8  | 99.5      | 0          | 18                   | A            |
| Ca++       | 1.51       | 0.49  | 7.70  | 117.0 | 99.0      | 0          | 17                   | A            |
| Cl-        | 0.84       | 0.55  | 4.62  | 65.3  | 100.0     | 0          | 21                   | D            |
| Mg++       | 0.139      | 0.040 | 0.800 | 10.8  | 99.0      | 0          | 17                   | A            |
| NO3-       | 0.55       | 0.04  | 3.44  | 42.3  | 100.0     | 1          | 21                   | A            |
| pH         | 6.28       | 5.77  | 7.26  | 40.8  | 100.0     | 0          | 21                   | B            |
| K+         | 0.14       | 0.05  | 0.63  | 10.6  | 96.6      | 0          | 16                   | A            |
| Precip     | -          | 0.0   | 21.2  | 77.6  | 100.0     | 76         | 92                   |              |
| Na+        | 0.30       | 0.13  | 2.15  | 23.4  | 99.0      | 0          | 17                   | A            |
| SO4-- corr | 0.66       | 0.31  | 4.78  | 51.2  | 100.0     | 0          | 21                   | A            |
| SO4--      | 0.72       | 0.37  | 4.99  | 55.7  | 100.0     | 0          | 21                   | A            |

ES0009R Campisabalos Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.11       | 0.04  | 2.63  | 17.9  | 98.4      | 12         | 29                   | A            |
| Ca++       | 0.33       | 0.09  | 3.71  | 55.2  | 97.7      | 0          | 27                   | A            |
| Cl-        | 0.74       | 0.57  | 3.81  | 123.3 | 99.8      | 0          | 34                   | D            |
| Mg++       | 0.043      | 0.020 | 0.380 | 7.1   | 97.7      | 0          | 27                   | A            |
| NO3-       | 0.26       | 0.12  | 2.13  | 43.4  | 99.6      | 0          | 33                   | A            |
| pH         | 5.74       | 5.08  | 7.23  | 306.2 | 100.0     | 0          | 37                   | B            |
| K+         | 0.04       | 0.03  | 0.40  | 6.5   | 97.7      | 11         | 27                   | A            |
| Precip     | -          | 0.0   | 31.0  | 167.4 | 100.0     | 57         | 91                   |              |
| Na+        | 0.20       | 0.05  | 1.93  | 32.9  | 97.7      | 1          | 27                   | A            |
| SO4-- corr | 0.32       | 0.18  | 2.43  | 53.5  | 99.8      | 0          | 34                   | A            |
| SO4--      | 0.34       | 0.19  | 2.51  | 57.7  | 99.8      | 0          | 34                   | A            |

ES0010R Cabo de Creus Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max     | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|---------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 1.42       | 0.33  | 2.18    | 9.4   | 100.0     | 0          | 11                   | A            |
| Ca++       | 11.08      | 1.79  | 81.00   | 73.2  | 100.0     | 0          | 11                   | A            |
| Cl-        | 139.62     | 15.54 | 6634.00 | 921.5 | 100.0     | 0          | 13                   | D            |
| Mg++       | 10.402     | 1.200 | 280.000 | 68.7  | 100.0     | 0          | 11                   | A            |
| NO3-       | 2.06       | 0.43  | 17.61   | 13.6  | 100.0     | 0          | 13                   | A            |
| pH         | 6.38       | 5.96  | 7.65    | 2.7   | 100.0     | 0          | 13                   | B            |
| K+         | 3.89       | 0.52  | 73.00   | 25.6  | 100.0     | 0          | 11                   | A            |
| Precip     | -          | 0.0   | 2.8     | 6.6   | 95.6      | 81         | 86                   |              |
| Na+        | 85.91      | 12.25 | 2720.00 | 567.0 | 100.0     | 0          | 11                   | A            |
| SO4-- corr | 2.51       | -0.47 | 403.40  | 16.6  | 100.0     | 1          | 13                   | A            |
| SO4--      | 9.49       | 1.72  | 598.00  | 62.6  | 100.0     | 0          | 13                   | A            |

ES0010R Cabo de Creus Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.55       | 0.04  | 2.21   | 23.3   | 100.0     | 1          | 16           | A          |              |
| Ca++       | 3.78       | 0.80  | 14.50  | 159.3  | 100.0     | 0          | 16           | A          |              |
| Cl-        | 30.36      | 3.06  | 306.00 | 1281.2 | 100.0     | 0          | 17           | D          |              |
| Mg++       | 2.321      | 0.300 | 22.500 | 97.9   | 100.0     | 0          | 16           | A          |              |
| NO3-       | 0.70       | 0.20  | 2.69   | 29.7   | 100.0     | 0          | 17           | A          |              |
| pH         | 6.56       | 5.96  | 7.43   | 11.7   | 100.0     | 0          | 17           | B          |              |
| K+         | 0.99       | 0.20  | 7.75   | 41.9   | 100.0     | 0          | 16           | A          |              |
| Precip     | -          | 0.0   | 15.8   | 42.2   | 100.0     | 79         | 92           |            |              |
| Na+        | 18.80      | 2.20  | 192.00 | 793.2  | 100.0     | 0          | 16           | A          |              |
| SO4-- corr | 0.97       | -0.47 | 4.71   | 41.1   | 100.0     | 1          | 17           | A          |              |
| SO4--      | 2.50       | 0.54  | 16.33  | 105.3  | 100.0     | 0          | 17           | A          |              |

ES0010R Cabo de Creus Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.64       | 0.35  | 2.19  | 7.0   | 100.0     | 0          | 6            | A          |              |
| Ca++       | 7.88       | 2.22  | 24.40 | 86.6  | 100.0     | 0          | 6            | A          |              |
| Cl-        | 29.28      | 7.73  | 69.60 | 322.1 | 100.0     | 0          | 6            | D          |              |
| Mg++       | 2.233      | 0.700 | 5.400 | 24.6  | 100.0     | 0          | 6            | A          |              |
| NO3-       | 1.76       | 0.53  | 6.58  | 19.4  | 100.0     | 0          | 6            | A          |              |
| pH         | 6.83       | 6.70  | 7.18  | 1.6   | 100.0     | 0          | 6            | B          |              |
| K+         | 1.07       | 0.24  | 2.20  | 11.8  | 100.0     | 0          | 6            | A          |              |
| Precip     | -          | 0.0   | 6.6   | 11.0  | 100.0     | 86         | 92           |            |              |
| Na+        | 15.91      | 5.30  | 38.50 | 175.0 | 100.0     | 0          | 6            | A          |              |
| SO4-- corr | 1.68       | 0.65  | 5.24  | 18.4  | 100.0     | 0          | 6            | A          |              |
| SO4--      | 3.01       | 1.09  | 7.46  | 33.1  | 100.0     | 0          | 6            | A          |              |

ES0010R Cabo de Creus Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.16       | 0.04  | 0.63   | 18.9   | 100.0     | 4          | 13           | A          |              |
| Ca++       | 4.19       | 0.78  | 27.10  | 485.2  | 100.0     | 0          | 13           | A          |              |
| Cl-        | 71.33      | 5.67  | 989.00 | 8260.4 | 100.0     | 0          | 13           | D          |              |
| Mg++       | 2.149      | 0.500 | 10.000 | 248.9  | 97.4      | 0          | 12           | A          |              |
| NO3-       | 0.49       | 0.23  | 1.26   | 56.8   | 100.0     | 0          | 13           | A          |              |
| pH         | 6.44       | 6.04  | 8.12   | 41.8   | 100.0     | 0          | 13           | B          |              |
| K+         | 1.49       | 0.20  | 19.00  | 172.0  | 100.0     | 0          | 13           | A          |              |
| Precip     | -          | 0.0   | 25.8   | 115.8  | 100.0     | 81         | 91           |            |              |
| Na+        | 14.90      | 0.50  | 93.50  | 1725.4 | 97.4      | 0          | 12           | A          |              |
| SO4-- corr | 1.52       | 0.29  | 8.67   | 176.6  | 100.0     | 0          | 13           | A          |              |
| SO4--      | 4.08       | 0.86  | 48.00  | 472.3  | 100.0     | 0          | 13           | A          |              |

ES0011R Barcarrola Spain

December 1998 - February 1999

| Component | W.<br>mean | Min | Max | Dep | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|-----------|------------|-----|-----|-----|-----------|------------|--------------|------------|--------------|
| Precip    | -          | 0.0 | 0.0 | 0.0 | 100.0     | 90         | 90           |            |              |

ES0011R Barcarrola Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.27       | 0.04  | 1.77  | 19.2  | 99.2      | 2          | 14           | A          |              |
| Ca++       | 0.76       | 0.19  | 3.06  | 53.7  | 99.2      | 0          | 14           | A          |              |
| Cl-        | 1.69       | 0.60  | 6.23  | 119.1 | 99.7      | 0          | 16           | D          |              |
| Mg++       | 0.187      | 0.050 | 0.700 | 13.2  | 99.2      | 0          | 14           | A          |              |
| NO3-       | 0.33       | 0.10  | 1.71  | 23.6  | 99.7      | 0          | 16           | A          |              |
| pH         | 5.55       | 5.25  | 7.40  | 197.8 | 100.0     | 0          | 17           | B          |              |
| K+         | 0.29       | 0.06  | 1.30  | 20.8  | 99.2      | 0          | 14           | A          |              |
| Precip     | -          | 0.0   | 17.8  | 70.6  | 100.0     | 76         | 92           |            |              |
| Na+        | 0.77       | 0.05  | 3.40  | 54.2  | 99.2      | 1          | 14           | A          |              |
| SO4-- corr | 0.62       | 0.22  | 1.84  | 43.8  | 99.7      | 0          | 16           | A          |              |
| SO4--      | 0.73       | 0.25  | 2.12  | 51.2  | 99.7      | 0          | 16           | A          |              |

ES0011R Barcarrola Spain

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | 0.49       | 0.32  | 0.85  | 4.8  | 100.0     | 0          | 2 A                  |              |
| Ca++       | 2.40       | 1.98  | 3.26  | 23.5 | 100.0     | 0          | 2 A                  |              |
| Cl-        | 1.71       | 1.25  | 2.65  | 16.7 | 100.0     | 0          | 2 D                  |              |
| Mg++       | 0.335      | 0.260 | 0.490 | 3.3  | 100.0     | 0          | 2 A                  |              |
| NO3-       | 0.86       | 0.53  | 1.53  | 8.4  | 100.0     | 0          | 2 A                  |              |
| pH         | 6.43       | 6.40  | 6.45  | 3.6  | 100.0     | 0          | 2 B                  |              |
| K+         | 0.61       | 0.59  | 0.64  | 5.9  | 100.0     | 0          | 2 A                  |              |
| Precip     | -          | 0.0   | 6.6   | 9.8  | 100.0     | 90         | 92                   |              |
| Na+        | 1.63       | 0.77  | 3.40  | 16.0 | 100.0     | 0          | 2 A                  |              |
| SO4-- corr | 1.01       | 0.57  | 1.91  | 9.9  | 100.0     | 0          | 2 A                  |              |
| SO4--      | 1.14       | 0.63  | 2.20  | 11.2 | 100.0     | 0          | 2 A                  |              |

ES0011R Barcarrola Spain

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.08       | 0.04  | 0.97  | 13.9  | 100.0     | 11         | 21 A                 |              |
| Ca++       | 0.44       | 0.17  | 1.70  | 74.9  | 99.6      | 0          | 20 A                 |              |
| Cl-        | 1.95       | 0.62  | 13.94 | 329.9 | 100.0     | 0          | 23 D                 |              |
| Mg++       | 0.130      | 0.020 | 0.600 | 22.1  | 99.6      | 0          | 20 A                 |              |
| NO3-       | 0.19       | 0.11  | 2.40  | 32.6  | 100.0     | 0          | 23 A                 |              |
| pH         | 5.90       | 5.24  | 6.95  | 215.4 | 100.0     | 0          | 23 B                 |              |
| K+         | 0.09       | 0.03  | 0.44  | 14.4  | 99.6      | 2          | 20 A                 |              |
| Precip     | -          | 0.0   | 50.6  | 169.4 | 100.0     | 72         | 91                   |              |
| Na+        | 1.02       | 0.12  | 6.10  | 173.4 | 99.6      | 0          | 20 A                 |              |
| SO4-- corr | 0.37       | 0.22  | 4.22  | 63.3  | 100.0     | 0          | 23 A                 |              |
| SO4--      | 0.46       | 0.25  | 4.61  | 78.6  | 100.0     | 0          | 23 A                 |              |

ES0012R Zarra Spain

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.49       | 0.04  | 1.08  | 27.7  | 100.0     | 1          | 18 A                 |              |
| Ca++       | 2.16       | 0.56  | 11.10 | 122.0 | 99.3      | 0          | 16 A                 |              |
| Cl-        | 1.35       | 0.61  | 6.05  | 75.8  | 100.0     | 0          | 18 D                 |              |
| Mg++       | 0.272      | 0.090 | 1.300 | 15.3  | 99.3      | 0          | 16 A                 |              |
| NO3-       | 0.44       | 0.18  | 1.44  | 24.7  | 100.0     | 0          | 18 A                 |              |
| pH         | 6.38       | 6.05  | 7.42  | 23.4  | 100.0     | 0          | 18 B                 |              |
| K+         | 0.09       | 0.03  | 0.52  | 5.0   | 99.3      | 4          | 16 A                 |              |
| Precip     | -          | 0.0   | 11.0  | 56.4  | 97.8      | 74         | 88                   |              |
| Na+        | 0.80       | 0.17  | 5.00  | 45.3  | 99.3      | 0          | 16 A                 |              |
| SO4-- corr | 0.79       | 0.36  | 1.74  | 44.6  | 100.0     | 0          | 18 A                 |              |
| SO4--      | 0.87       | 0.42  | 1.99  | 49.3  | 100.0     | 0          | 18 A                 |              |

ES0012R Zarra Spain

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.04  | 0.59  | 32.8  | 100.0     | 2          | 20 A                 |              |
| Ca++       | 4.61       | 0.56  | 18.90 | 429.2 | 99.6      | 0          | 18 A                 |              |
| Cl-        | 1.36       | 0.61  | 5.55  | 126.6 | 100.0     | 0          | 20 D                 |              |
| Mg++       | 0.262      | 0.080 | 1.100 | 24.3  | 99.6      | 0          | 18 A                 |              |
| NO3-       | 0.42       | 0.04  | 2.59  | 39.0  | 100.0     | 1          | 20 A                 |              |
| pH         | 6.57       | 6.05  | 7.85  | 24.9  | 100.0     | 0          | 20 B                 |              |
| K+         | 0.12       | 0.03  | 1.14  | 10.9  | 99.6      | 6          | 18 A                 |              |
| Precip     | -          | 0.0   | 17.4  | 93.0  | 100.0     | 74         | 92                   |              |
| Na+        | 0.77       | 0.05  | 3.30  | 71.9  | 99.6      | 1          | 18 A                 |              |
| SO4-- corr | 0.74       | 0.30  | 3.60  | 68.5  | 100.0     | 0          | 20 A                 |              |
| SO4--      | 0.82       | 0.33  | 3.88  | 76.2  | 100.0     | 0          | 20 A                 |              |

| ES0012R                 |            | Zarra |       | Spain |           |            |              |            |              |
|-------------------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |       |       |       |           |            |              |            |              |
| Component               | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.42       | 0.04  | 2.14  | 7.7   | 96.7      | 1          | 6            | A          |              |
| Ca++                    | 14.20      | 4.20  | 50.80 | 258.4 | 96.7      | 0          | 6            | A          |              |
| Cl-                     | 1.71       | 0.79  | 9.28  | 31.1  | 97.8      | 0          | 7            | D          |              |
| Mg++                    | 0.729      | 0.220 | 1.900 | 13.3  | 96.7      | 0          | 6            | A          |              |
| NO3-                    | 1.82       | 0.58  | 7.46  | 33.2  | 97.8      | 0          | 7            | A          |              |
| pH                      | 7.17       | 6.72  | 7.78  | 1.2   | 100.0     | 0          | 8            | B          |              |
| K+                      | 0.37       | 0.21  | 1.22  | 6.7   | 96.7      | 0          | 6            | A          |              |
| Precip                  | -          | 0.0   | 7.4   | 18.2  | 100.0     | 85         | 92           |            |              |
| Na+                     | 1.18       | 0.30  | 3.86  | 21.5  | 96.7      | 0          | 6            | A          |              |
| SO4-- corr              | 1.99       | 0.61  | 8.64  | 36.2  | 97.8      | 0          | 7            | A          |              |
| SO4--                   | 2.09       | 0.66  | 9.07  | 38.0  | 97.8      | 0          | 7            | A          |              |

| ES0012R                        |            | Zarra |       | Spain |           |            |                      |              |  |
|--------------------------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|--|
| September 1999 - November 1999 |            |       |       |       |           |            |                      |              |  |
| Component                      | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                           | 0.10       | 0.04  | 0.54  | 13.4  | 100.0     | 12         | 20                   | A            |  |
| Ca++                           | 3.54       | 0.91  | 16.00 | 468.6 | 99.4      | 0          | 19                   | A            |  |
| Cl-                            | 1.10       | 0.54  | 3.22  | 145.7 | 100.0     | 0          | 20                   | D            |  |
| Mg++                           | 0.253      | 0.090 | 1.100 | 33.5  | 99.4      | 0          | 19                   | A            |  |
| NO3-                           | 0.48       | 0.22  | 2.94  | 63.9  | 100.0     | 0          | 20                   | A            |  |
| pH                             | 6.82       | 6.42  | 7.31  | 20.0  | 100.0     | 0          | 20                   | B            |  |
| K+                             | 0.08       | 0.03  | 0.26  | 10.6  | 99.4      | 2          | 19                   | A            |  |
| Precip                         | -          | 0.0   | 45.6  | 132.4 | 100.0     | 73         | 91                   |              |  |
| Na+                            | 0.43       | 0.10  | 2.05  | 56.8  | 99.4      | 0          | 19                   | A            |  |
| SO4-- corr                     | 0.70       | 0.21  | 1.91  | 93.2  | 100.0     | 0          | 20                   | A            |  |
| SO4--                          | 0.76       | 0.25  | 2.02  | 101.0 | 100.0     | 0          | 20                   | A            |  |

| FI0004R                       |            | Ahtari |       | Finland |           |            |                      |              |  |
|-------------------------------|------------|--------|-------|---------|-----------|------------|----------------------|--------------|--|
| December 1998 - February 1999 |            |        |       |         |           |            |                      |              |  |
| Component                     | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                          | 0.08       | 0.00   | 2.04  | 9.6     | 99.2      | 0          | 54                   | A            |  |
| Ca++                          | 0.04       | 0.01   | 0.38  | 4.6     | 99.2      | 0          | 54                   | A            |  |
| Cl-                           | 0.19       | 0.03   | 1.43  | 22.7    | 99.2      | 0          | 54                   | A            |  |
| Mg++                          | 0.014      | 0.002  | 0.156 | 1.7     | 99.2      | 3          | 54                   | A            |  |
| NO3-                          | 0.32       | 0.08   | 2.31  | 38.5    | 99.2      | 0          | 54                   | A            |  |
| pH                            | 4.72       | 3.92   | 5.38  | 2288.0  | 99.2      | 0          | 54                   | A            |  |
| K+                            | 0.04       | 0.00   | 0.37  | 4.5     | 99.2      | 0          | 54                   | A            |  |
| Precip                        | -          | 0.0    | 14.7  | 119.4   | 100.0     | 27         | 90                   |              |  |
| Precip off                    | -          | 0.0    | 18.9  | 142.8   | 100.0     | 25         | 90                   |              |  |
| Na+                           | 0.10       | 0.00   | 1.60  | 11.4    | 99.2      | 0          | 54                   | A            |  |
| SO4-- corr                    | 0.22       | 0.04   | 2.30  | 25.9    | 99.2      | 0          | 54                   | A            |  |
| SO4--                         | 0.22       | 0.04   | 2.39  | 26.9    | 99.2      | 0          | 54                   | A            |  |

| FI0004R               |            | Ahtari |       | Finland |           |            |                 |      |              |
|-----------------------|------------|--------|-------|---------|-----------|------------|-----------------|------|--------------|
| March 1999 - May 1999 |            |        |       |         |           |            |                 |      |              |
| Component             | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| NH4+                  | 0.35       | 0.04   | 1.22  | 30.4    | 98.5      | 0          | 32              | A    |              |
| Ca++                  | 0.13       | 0.01   | 1.68  | 11.2    | 98.5      | 0          | 32              | A    |              |
| Cl-                   | 0.17       | 0.05   | 1.23  | 15.0    | 98.5      | 0          | 32              | A    |              |
| Mg++                  | 0.024      | 0.002  | 0.191 | 2.1     | 98.5      | 1          | 32              | A    |              |
| NO3-                  | 0.44       | 0.04   | 1.39  | 38.4    | 98.5      | 0          | 32              | A    |              |
| pH                    | 4.54       | 3.92   | 5.72  | 2541.8  | 98.9      | 0          | 33              | A    |              |
| K+                    | 0.05       | 0.02   | 0.23  | 4.3     | 98.5      | 0          | 32              | A    |              |
| Precip                | -          | 0.0    | 8.9   | 78.3    | 100.0     | 56         | 92              |      |              |
| Precip off            | -          | 0.0    | 9.7   | 87.6    | 100.0     | 51         | 92              |      |              |
| Na+                   | 0.09       | 0.01   | 1.39  | 7.5     | 98.5      | 0          | 32              | A    |              |
| SO4-- corr            | 0.50       | 0.08   | 2.02  | 43.9    | 98.5      | 0          | 32              | A    |              |
| SO4--                 | 0.51       | 0.08   | 2.04  | 44.9    | 98.5      | 0          | 32              | A    |              |

FI0004R Ahtari Finland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.17       | 0.00  | 0.87  | 34.6   | 98.9      | 1          | 36                   | A            |
| Ca++       | 0.06       | 0.00  | 0.48  | 12.0   | 98.9      | 1          | 36                   | A            |
| Cl-        | 0.09       | 0.02  | 0.80  | 18.1   | 98.9      | 0          | 36                   | A            |
| Mg++       | 0.013      | 0.002 | 0.140 | 2.6    | 98.9      | 2          | 36                   | A            |
| NO3-       | 0.18       | 0.02  | 0.52  | 38.1   | 98.9      | 0          | 36                   | A            |
| pH         | 4.78       | 4.36  | 5.38  | 3449.9 | 99.0      | 0          | 37                   | A            |
| K+         | 0.03       | 0.02  | 1.09  | 7.1    | 98.9      | 0          | 36                   | A            |
| Precip     | -          | 0.0   | 32.6  | 194.3  | 100.0     | 54         | 92                   |              |
| Precip off | -          | 0.0   | 28.3  | 207.0  | 100.0     | 44         | 92                   |              |
| Na+        | 0.05       | 0.01  | 0.48  | 10.7   | 98.9      | 0          | 36                   | A            |
| SO4-- corr | 0.25       | 0.05  | 1.22  | 50.9   | 98.9      | 0          | 36                   | A            |
| SO4--      | 0.25       | 0.05  | 1.23  | 51.9   | 98.9      | 0          | 36                   | A            |

FI0004R Ahtari Finland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.19       | 0.02  | 1.18  | 39.7   | 98.9      | 0          | 38                   | A            |
| Ca++       | 0.10       | 0.01  | 3.18  | 20.3   | 98.9      | 0          | 38                   | A            |
| Cl-        | 0.18       | 0.02  | 1.76  | 37.6   | 98.9      | 0          | 38                   | A            |
| Mg++       | 0.017      | 0.002 | 0.330 | 3.6    | 98.9      | 2          | 38                   | A            |
| NO3-       | 0.23       | 0.02  | 1.63  | 46.6   | 98.9      | 0          | 38                   | A            |
| pH         | 4.75       | 3.90  | 5.52  | 3686.1 | 99.2      | 0          | 40                   | A            |
| K+         | 0.05       | 0.00  | 0.34  | 9.8    | 98.9      | 2          | 38                   | A            |
| Precip     | -          | 0.0   | 17.3  | 182.1  | 100.0     | 48         | 91                   |              |
| Precip off | -          | 0.0   | 19.1  | 205.4  | 100.0     | 40         | 91                   |              |
| Na+        | 0.10       | 0.01  | 1.09  | 20.3   | 98.9      | 0          | 38                   | A            |
| SO4-- corr | 0.31       | 0.00  | 2.71  | 63.8   | 98.9      | 1          | 38                   | A            |
| SO4--      | 0.32       | 0.01  | 2.80  | 66.2   | 98.9      | 1          | 38                   | A            |

FI0009R Uto Finland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.27       | 0.05  | 1.06  | 13.1   | 95.7      | 0          | 22                   | A            |
| Ca++       | 0.13       | 0.03  | 0.65  | 6.3    | 95.7      | 0          | 22                   | A            |
| Cl-        | 2.96       | 0.83  | 18.62 | 146.2  | 95.7      | 0          | 22                   | A            |
| Mg++       | 0.201      | 0.058 | 1.383 | 9.9    | 95.7      | 0          | 22                   | A            |
| NO3-       | 0.54       | 0.16  | 2.11  | 26.5   | 95.7      | 0          | 22                   | A            |
| pH         | 4.52       | 3.91  | 6.03  | 1479.1 | 96.8      | 0          | 25                   | A            |
| K+         | 0.23       | 0.03  | 2.02  | 11.3   | 95.7      | 0          | 22                   | A            |
| Precip     | -          | 0.0   | 8.5   | 49.4   | 100.0     | 54         | 90                   |              |
| Precip off | -          | 0.0   | 13.0  | 184.5  | 100.0     | 29         | 90                   |              |
| Na+        | 1.76       | 0.49  | 11.39 | 86.8   | 95.7      | 0          | 22                   | A            |
| SO4-- corr | 0.42       | 0.09  | 3.38  | 20.7   | 95.7      | 0          | 22                   | A            |
| SO4--      | 0.56       | 0.16  | 3.50  | 27.9   | 95.7      | 0          | 22                   | A            |

FI0009R Uto Finland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.59       | 0.05  | 1.97  | 49.0   | 73.7      | 0          | 20                   | A            |
| Ca++       | 1.22       | 0.03  | 6.92  | 100.8  | 73.7      | 0          | 20                   | A            |
| Cl-        | 1.82       | 0.08  | 6.79  | 150.8  | 73.7      | 0          | 20                   | A            |
| Mg++       | 0.135      | 0.007 | 0.538 | 11.2   | 73.7      | 0          | 20                   | A            |
| NO3-       | 1.81       | 0.12  | 14.70 | 150.0  | 73.7      | 0          | 20                   | A            |
| pH         | 4.39       | 3.74  | 5.79  | 3379.2 | 78.8      | 0          | 24                   | A            |
| K+         | 0.33       | 0.03  | 2.06  | 27.4   | 73.7      | 0          | 20                   | A            |
| Precip     | -          | 0.0   | 7.5   | 34.8   | 100.0     | 68         | 92                   |              |
| Precip off | -          | 0.0   | 9.5   | 82.9   | 100.0     | 56         | 92                   |              |
| Na+        | 1.15       | 0.04  | 4.44  | 95.6   | 73.7      | 0          | 20                   | A            |
| SO4-- corr | 1.18       | 0.08  | 7.13  | 97.9   | 73.7      | 0          | 20                   | A            |
| SO4--      | 1.26       | 0.09  | 7.24  | 104.7  | 73.7      | 0          | 20                   | A            |

| FI0009R                 |            | Uto   |       | Finland |           |            |                      |              |  |
|-------------------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|--|
| June 1999 - August 1999 |            |       |       |         |           |            |                      |              |  |
| Component               | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                    | 0.31       | 0.00  | 0.93  | 27.7    | 98.7      | 1          | 20                   | A            |  |
| Ca++                    | 0.18       | 0.05  | 0.63  | 15.6    | 98.7      | 0          | 20                   | A            |  |
| Cl-                     | 0.65       | 0.20  | 3.84  | 57.0    | 98.7      | 0          | 20                   | A            |  |
| Mg++                    | 0.057      | 0.022 | 0.299 | 5.0     | 98.7      | 0          | 20                   | A            |  |
| NO3-                    | 0.30       | 0.06  | 1.03  | 26.3    | 98.7      | 0          | 20                   | A            |  |
| pH                      | 4.70       | 4.33  | 5.27  | 1736.4  | 98.7      | 0          | 20                   | A            |  |
| K+                      | 0.12       | 0.05  | 1.29  | 10.7    | 98.7      | 0          | 20                   | A            |  |
| Precip                  | -          | 0.0   | 14.6  | 77.7    | 100.0     | 69         | 92                   |              |  |
| Precip off              | -          | 0.0   | 16.2  | 87.8    | 100.0     | 67         | 92                   |              |  |
| Na+                     | 0.40       | 0.12  | 2.60  | 34.7    | 98.7      | 0          | 20                   | A            |  |
| SO4-- corr              | 0.43       | 0.06  | 1.09  | 37.4    | 98.7      | 0          | 20                   | A            |  |
| SO4--                   | 0.46       | 0.10  | 1.16  | 40.2    | 98.7      | 0          | 20                   | A            |  |

| FI0009R                        |            | Uto   |       | Finland |           |            |              |            |              |
|--------------------------------|------------|-------|-------|---------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |       |       |         |           |            |              |            |              |
| Component                      | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.25       | 0.06  | 1.19  | 41.9    | 94.2      | 0          | 26           | A          |              |
| Ca++                           | 0.13       | 0.03  | 0.70  | 21.9    | 94.2      | 0          | 26           | A          |              |
| Cl-                            | 2.11       | 0.22  | 14.18 | 359.4   | 94.2      | 0          | 26           | A          |              |
| Mg++                           | 0.152      | 0.020 | 1.009 | 25.8    | 94.2      | 0          | 26           | A          |              |
| NO3-                           | 0.37       | 0.10  | 2.01  | 63.0    | 94.2      | 0          | 26           | A          |              |
| pH                             | 4.59       | 3.74  | 5.22  | 4394.6  | 94.6      | 0          | 28           | A          |              |
| K+                             | 0.10       | 0.04  | 0.52  | 17.5    | 94.2      | 0          | 26           | A          |              |
| Precip                         | -          | 0.0   | 22.6  | 108.2   | 100.0     | 57         | 91           |            |              |
| Precip off                     | -          | 0.0   | 25.6  | 170.1   | 100.0     | 45         | 91           |            |              |
| Na+                            | 1.29       | 0.14  | 8.47  | 219.3   | 94.2      | 0          | 26           | A          |              |
| SO4-- corr                     | 0.35       | 0.10  | 2.55  | 60.2    | 94.2      | 0          | 26           | A          |              |
| SO4--                          | 0.46       | 0.16  | 2.79  | 78.0    | 94.2      | 0          | 26           | A          |              |

|                               |              |       |         |        |           |            |                 |      |              |
|-------------------------------|--------------|-------|---------|--------|-----------|------------|-----------------|------|--------------|
| FI0017R                       | Virolahti II |       | Finland |        |           |            |                 |      |              |
| December 1998 - February 1999 |              |       |         |        |           |            |                 |      |              |
| Component                     | W.<br>mean   | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| NH4+                          | 0.26         | 0.03  | 2.55    | 36.7   | 98.4      | 0          | 40              | A    |              |
| Ca++                          | 0.37         | 0.02  | 7.00    | 52.2   | 98.4      | 0          | 40              | A    |              |
| Cl-                           | 0.40         | 0.04  | 3.22    | 56.2   | 98.4      | 0          | 40              | A    |              |
| Mg++                          | 0.049        | 0.004 | 0.664   | 6.8    | 98.4      | 0          | 40              | A    |              |
| NO3-                          | 0.37         | 0.12  | 1.90    | 51.7   | 98.4      | 0          | 40              | A    |              |
| pH                            | 4.87         | 4.13  | 5.43    | 1868.2 | 99.1      | 0          | 45              | A    |              |
| K+                            | 0.09         | 0.02  | 1.62    | 13.1   | 98.4      | 0          | 40              | A    |              |
| Precip                        | -            | 0.0   | 13.8    | 139.4  | 100.0     | 33         | 90              |      |              |
| Precip off                    | -            | 0.0   | 22.2    | 195.4  | 100.0     | 28         | 90              |      |              |
| Na+                           | 0.20         | 0.01  | 1.38    | 27.4   | 98.4      | 0          | 40              | A    |              |
| SO4-- corr                    | 0.50         | 0.05  | 7.07    | 69.8   | 98.4      | 0          | 40              | A    |              |
| SO4--                         | 0.52         | 0.06  | 7.16    | 72.9   | 98.4      | 0          | 40              | A    |              |

| FI0017R               |            | Virolahti II |       | Finland |           |            |                 |      |  |
|-----------------------|------------|--------------|-------|---------|-----------|------------|-----------------|------|--|
| March 1999 - May 1999 |            |              |       |         |           |            |                 |      |  |
| Component             | W.<br>mean | Min          | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl | flag |  |
| NH4+                  | 0.69       | 0.06         | 2.62  | 54.2    | 98.1      | 0          | 26              | A    |  |
| Ca++                  | 0.40       | 0.04         | 2.38  | 31.5    | 98.1      | 0          | 26              | A    |  |
| Cl-                   | 0.40       | 0.06         | 1.89  | 30.8    | 98.1      | 0          | 26              | A    |  |
| Mg++                  | 0.063      | 0.010        | 0.255 | 4.9     | 98.1      | 0          | 26              | A    |  |
| NO3-                  | 0.66       | 0.11         | 2.13  | 51.6    | 98.1      | 0          | 26              | A    |  |
| pH                    | 4.47       | 3.82         | 5.86  | 2663.9  | 98.3      | 0          | 27              | A    |  |
| K+                    | 0.10       | 0.03         | 0.54  | 7.5     | 98.1      | 0          | 26              | A    |  |
| Precip                | -          | 0.0          | 9.2   | 62.8    | 100.0     | 62         | 92              |      |  |
| Precip off            | -          | 0.0          | 10.0  | 78.0    | 100.0     | 59         | 92              |      |  |
| Na+                   | 0.21       | 0.03         | 0.75  | 16.7    | 98.1      | 0          | 26              | A    |  |
| SO4-- corr            | 0.96       | 0.15         | 3.42  | 75.2    | 98.1      | 0          | 26              | A    |  |
| SO4--                 | 0.99       | 0.16         | 3.60  | 77.2    | 98.1      | 0          | 26              | A    |  |

FI0017R Virolahti II Finland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.42       | 0.07  | 1.25  | 32.3   | 97.9      | 0          | 25                   | A            |
| Ca++       | 0.34       | 0.03  | 1.70  | 26.4   | 97.9      | 0          | 25                   | A            |
| Cl-        | 0.18       | 0.03  | 0.52  | 13.8   | 97.9      | 0          | 25                   | A            |
| Mg++       | 0.056      | 0.007 | 0.259 | 4.3    | 97.9      | 0          | 25                   | A            |
| NO3-       | 0.33       | 0.10  | 1.16  | 25.7   | 97.9      | 0          | 25                   | A            |
| pH         | 4.80       | 4.12  | 5.98  | 1216.6 | 99.0      | 0          | 27                   | A            |
| K+         | 0.15       | 0.02  | 1.17  | 12.0   | 97.9      | 0          | 25                   | A            |
| Precip     | -          | 0.0   | 7.7   | 62.8   | 100.0     | 64         | 92                   |              |
| Precip off | -          | 0.0   | 8.4   | 77.5   | 100.0     | 59         | 92                   |              |
| Na+        | 0.09       | 0.01  | 0.31  | 6.7    | 97.9      | 0          | 25                   | A            |
| SO4-- corr | 0.53       | 0.09  | 1.99  | 41.2   | 97.9      | 0          | 25                   | A            |
| SO4--      | 0.54       | 0.09  | 2.00  | 41.9   | 97.9      | 0          | 25                   | A            |

FI0017R Virolahti II Finland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.38       | 0.09  | 3.42  | 56.9   | 95.3      | 0          | 32                   | A            |
| Ca++       | 0.19       | 0.04  | 1.98  | 28.4   | 95.3      | 0          | 32                   | A            |
| Cl-        | 0.81       | 0.04  | 23.85 | 120.4  | 95.3      | 0          | 32                   | A            |
| Mg++       | 0.069      | 0.004 | 1.541 | 10.3   | 95.3      | 0          | 32                   | A            |
| NO3-       | 0.37       | 0.13  | 4.92  | 54.6   | 95.3      | 0          | 32                   | A            |
| pH         | 4.66       | 3.85  | 5.49  | 3265.3 | 95.3      | 0          | 32                   | A            |
| K+         | 0.15       | 0.03  | 2.44  | 22.3   | 95.3      | 0          | 32                   | A            |
| Precip     | -          | 0.0   | 16.8  | 128.4  | 100.0     | 54         | 91                   |              |
| Precip off | -          | 0.0   | 17.9  | 148.8  | 100.0     | 49         | 91                   |              |
| Na+        | 0.41       | 0.02  | 10.27 | 61.1   | 95.3      | 0          | 32                   | A            |
| SO4-- corr | 0.56       | 0.07  | 3.01  | 82.5   | 95.3      | 0          | 32                   | A            |
| SO4--      | 0.59       | 0.10  | 3.73  | 87.8   | 95.3      | 0          | 32                   | A            |

FI0022R Oulanka Finland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.04       | 0.00  | 0.45  | 3.8    | 99.5      | 0          | 56                   | A            |
| Ca++       | 0.02       | 0.00  | 0.14  | 1.5    | 99.5      | 1          | 56                   | A            |
| Cl-        | 0.17       | 0.00  | 2.32  | 15.2   | 99.5      | 1          | 56                   | A            |
| Mg++       | 0.010      | 0.002 | 0.214 | 0.9    | 99.5      | 11         | 56                   | A            |
| NO3-       | 0.21       | 0.05  | 1.02  | 18.9   | 99.5      | 0          | 56                   | A            |
| pH         | 4.76       | 4.20  | 5.38  | 1586.0 | 99.9      | 0          | 58                   | A            |
| K+         | 0.02       | 0.00  | 0.53  | 1.9    | 99.5      | 0          | 56                   | A            |
| Precip     | -          | 0.0   | 9.3   | 91.1   | 100.0     | 31         | 90                   |              |
| Precip off | -          | 0.0   | 10.5  | 108.9  | 100.0     | 22         | 90                   |              |
| Na+        | 0.08       | 0.00  | 1.59  | 7.2    | 99.5      | 0          | 56                   | A            |
| SO4-- corr | 0.14       | 0.04  | 0.79  | 13.2   | 99.5      | 0          | 56                   | A            |
| SO4--      | 0.15       | 0.04  | 0.83  | 13.8   | 99.5      | 0          | 56                   | A            |

FI0022R Oulanka Finland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.22       | 0.00  | 1.13  | 25.0   | 98.2      | 1          | 38                   | A            |
| Ca++       | 0.09       | 0.00  | 2.17  | 10.8   | 98.2      | 1          | 38                   | A            |
| Cl-        | 0.13       | 0.00  | 0.71  | 15.1   | 98.2      | 1          | 38                   | A            |
| Mg++       | 0.020      | 0.002 | 0.301 | 2.2    | 98.2      | 4          | 38                   | A            |
| NO3-       | 0.26       | 0.04  | 0.75  | 30.2   | 98.2      | 0          | 38                   | A            |
| pH         | 4.58       | 3.91  | 6.16  | 2978.5 | 98.2      | 0          | 38                   | A            |
| K+         | 0.03       | 0.00  | 0.10  | 3.4    | 98.2      | 2          | 38                   | A            |
| Precip     | -          | 0.0   | 15.9  | 91.7   | 100.0     | 49         | 92                   |              |
| Precip off | -          | 0.0   | 20.5  | 114.2  | 100.0     | 42         | 92                   |              |
| Na+        | 0.07       | 0.00  | 0.51  | 7.8    | 98.2      | 1          | 38                   | A            |
| SO4-- corr | 0.40       | 0.07  | 2.90  | 45.6   | 98.2      | 0          | 38                   | A            |
| SO4--      | 0.41       | 0.08  | 2.92  | 46.4   | 98.2      | 0          | 38                   | A            |

| FI0022R                 |            | Oulanka |       | Finland |           |            |                 |      |  |
|-------------------------|------------|---------|-------|---------|-----------|------------|-----------------|------|--|
| June 1999 - August 1999 |            |         |       |         |           |            |                 |      |  |
| Component               | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl | flag |  |
| NH4+                    | 0.07       | 0.00    | 0.43  | 14.1    | 99.1      | 2          | 39              | A    |  |
| Ca++                    | 0.02       | 0.00    | 0.32  | 4.3     | 99.1      | 1          | 39              | A    |  |
| Cl-                     | 0.05       | 0.00    | 1.50  | 9.4     | 99.1      | 2          | 39              | A    |  |
| Mg++                    | 0.007      | 0.002   | 0.316 | 1.3     | 99.1      | 6          | 39              | A    |  |
| NO3-                    | 0.09       | 0.00    | 0.62  | 16.7    | 99.1      | 1          | 39              | A    |  |
| pH                      | 4.85       | 4.37    | 5.15  | 2724.9  | 99.4      | 0          | 41              | A    |  |
| K+                      | 0.02       | 0.00    | 0.42  | 4.2     | 99.1      | 2          | 39              | A    |  |
| Precip                  | -          | 0.0     | 20.8  | 168.1   | 100.0     | 49         | 92              |      |  |
| Precip off              | -          | 0.0     | 22.2  | 192.2   | 100.0     | 45         | 92              |      |  |
| Na+                     | 0.02       | 0.00    | 0.32  | 4.6     | 99.1      | 1          | 39              | A    |  |
| SO4-- corr              | 0.14       | 0.03    | 0.76  | 27.6    | 99.1      | 0          | 39              | A    |  |
| SO4--                   | 0.15       | 0.03    | 0.76  | 28.1    | 99.1      | 0          | 39              | A    |  |

| FI0022R                        |            | Oulanka |       | Finland |           |            |              |            |              |
|--------------------------------|------------|---------|-------|---------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |         |       |         |           |            |              |            |              |
| Component                      | W.<br>mean | Min     | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.08       | 0.00    | 0.51  | 13.9    | 91.1      | 3          | 46           | A          |              |
| Ca++                           | 0.04       | 0.00    | 1.07  | 7.2     | 91.1      | 2          | 46           | A          |              |
| Cl-                            | 0.12       | 0.00    | 1.24  | 20.1    | 91.1      | 1          | 46           | A          |              |
| Mg++                           | 0.009      | 0.002   | 0.082 | 1.6     | 91.1      | 10         | 46           | A          |              |
| NO3-                           | 0.14       | 0.01    | 0.60  | 22.3    | 91.1      | 0          | 46           | A          |              |
| pH                             | 4.81       | 4.08    | 5.86  | 2559.2  | 91.7      | 0          | 50           | A          |              |
| K+                             | 0.04       | 0.00    | 1.35  | 7.2     | 91.1      | 6          | 46           | A          |              |
| Precip                         | -          | 0.0     | 14.1  | 132.3   | 100.0     | 39         | 91           |            |              |
| Precip off                     | -          | 0.0     | 15.9  | 165.3   | 100.0     | 25         | 91           |            |              |
| Na+                            | 0.08       | 0.01    | 1.00  | 13.0    | 91.1      | 0          | 46           | A          |              |
| SO4-- corr                     | 0.20       | 0.00    | 1.05  | 33.2    | 91.1      | 1          | 46           | A          |              |
| SO4--                          | 0.21       | 0.01    | 1.05  | 34.3    | 91.1      | 1          | 46           | A          |              |

|                               |              |       |        |        |           |            |                      |              |  |
|-------------------------------|--------------|-------|--------|--------|-----------|------------|----------------------|--------------|--|
| FR0003R                       | La Crouzille |       | France |        |           |            |                      |              |  |
| December 1998 - February 1999 |              |       |        |        |           |            |                      |              |  |
| Component                     | W.<br>mean   | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                          | 0.33         | 0.03  | 2.15   | 74.8   | 94.2      | 0          | 28                   | A            |  |
| Ca++                          | 0.15         | 0.02  | 1.39   | 33.3   | 94.2      | 0          | 28                   | A            |  |
| Cl-                           | 1.04         | 0.05  | 9.46   | 232.2  | 94.2      | 0          | 28                   | A            |  |
| Mg++                          | 0.097        | 0.020 | 0.640  | 21.6   | 94.2      | 0          | 28                   | A            |  |
| NO3-                          | 0.23         | 0.02  | 1.22   | 50.4   | 94.2      | 0          | 28                   | A            |  |
| pH                            | 5.14         | 4.20  | 6.09   | 1619.8 | 94.8      | 0          | 29                   | A            |  |
| K+                            | 0.04         | 0.02  | 0.26   | 8.2    | 94.2      | 0          | 28                   | A            |  |
| Precip                        | -            | 0.0   | 26.7   | 223.7  | 100.0     | 58         | 90                   |              |  |
| Na+                           | 0.65         | 0.02  | 5.18   | 146.6  | 94.2      | 0          | 28                   | A            |  |
| SO4-- corr                    | 0.29         | 0.03  | 1.30   | 64.2   | 94.2      | 0          | 28                   | A            |  |
| SO4--                         | 0.34         | 0.05  | 1.38   | 76.4   | 94.2      | 0          | 28                   | A            |  |

|                       |            |              |       |        |           |            |              |            |              |
|-----------------------|------------|--------------|-------|--------|-----------|------------|--------------|------------|--------------|
| FR0003R               |            | La Crouzille |       | France |           |            |              |            |              |
| March 1999 - May 1999 |            |              |       |        |           |            |              |            |              |
| Component             | W.<br>mean | Min          | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.45       | 0.04         | 1.45  | 88.3   | 93.7      | 0          | 41           | A          |              |
| Ca++                  | 0.50       | 0.05         | 3.33  | 98.8   | 93.7      | 0          | 41           | A          |              |
| Cl-                   | 0.87       | 0.05         | 8.07  | 170.7  | 93.7      | 0          | 41           | A          |              |
| Mg++                  | 0.110      | 0.020        | 0.560 | 21.6   | 93.7      | 0          | 41           | A          |              |
| NO3-                  | 0.32       | 0.07         | 0.91  | 62.0   | 93.7      | 0          | 41           | A          |              |
| pH                    | 5.23       | 4.61         | 6.91  | 1154.6 | 95.5      | 0          | 43           | A          |              |
| K+                    | 0.07       | 0.02         | 0.25  | 13.4   | 93.7      | 0          | 41           | A          |              |
| Precip                | -          | 0.3          | 17.4  | 196.2  | 100.0     | 44         | 92           |            |              |
| Na+                   | 0.51       | 0.02         | 4.55  | 99.4   | 93.7      | 0          | 41           | A          |              |
| SO4-- corr            | 0.41       | 0.11         | 1.30  | 80.4   | 93.7      | 0          | 41           | A          |              |
| SO4--                 | 0.45       | 0.14         | 1.32  | 89.0   | 93.7      | 0          | 41           | A          |              |

FR0003R La Crouzille France

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 1.80       | 0.03  | 18.62 | 247.2 | 88.9      | 0          | 25                   | A            |
| Ca++       | 0.44       | 0.14  | 1.34  | 60.7  | 88.9      | 0          | 25                   | A            |
| Cl-        | 0.65       | 0.12  | 2.44  | 88.8  | 88.9      | 0          | 25                   | A            |
| Mg++       | 0.297      | 0.070 | 1.380 | 40.8  | 88.9      | 0          | 25                   | A            |
| NO3-       | 0.34       | 0.04  | 1.05  | 46.8  | 88.9      | 0          | 25                   | A            |
| pH         | 5.45       | 4.47  | 7.77  | 486.7 | 90.0      | 0          | 27                   | A            |
| K+         | 0.41       | 0.02  | 3.96  | 57.1  | 88.9      | 0          | 25                   | A            |
| Precip     | -          | 0.1   | 17.5  | 137.4 | 100.0     | 58         | 92                   |              |
| Na+        | 0.44       | 0.06  | 1.78  | 60.4  | 88.9      | 0          | 25                   | A            |
| SO4-- corr | 0.55       | 0.17  | 1.81  | 74.9  | 88.9      | 0          | 25                   | A            |
| SO4--      | 0.58       | 0.18  | 1.94  | 80.4  | 88.9      | 0          | 25                   | A            |

FR0003R La Crouzille France

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.03  | 2.02  | 118.1  | 98.9      | 0          | 33                   | A            |
| Ca++       | 0.20       | 0.04  | 3.06  | 65.6   | 98.9      | 0          | 33                   | A            |
| Cl-        | 0.69       | 0.05  | 3.55  | 230.7  | 98.9      | 0          | 33                   | A            |
| Mg++       | 0.130      | 0.020 | 0.630 | 43.3   | 98.9      | 0          | 33                   | A            |
| NO3-       | 0.20       | 0.02  | 0.88  | 67.0   | 98.9      | 0          | 33                   | A            |
| pH         | 5.19       | 4.43  | 6.75  | 2167.2 | 99.2      | 0          | 34                   | A            |
| K+         | 0.08       | 0.02  | 0.67  | 26.9   | 98.9      | 0          | 33                   | A            |
| Precip     | -          | 0.1   | 31.0  | 333.9  | 100.0     | 48         | 91                   |              |
| Na+        | 0.42       | 0.02  | 2.08  | 140.6  | 98.9      | 0          | 33                   | A            |
| SO4-- corr | 0.31       | 0.05  | 1.09  | 102.7  | 98.9      | 0          | 33                   | A            |
| SO4--      | 0.35       | 0.06  | 1.12  | 115.4  | 98.9      | 0          | 33                   | A            |

FR0005R La Hague France

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.44       | 0.07  | 10.09 | 139.8  | 82.4      | 0          | 35                   | A            |
| Ca++       | 0.31       | 0.06  | 2.32  | 98.9   | 82.0      | 0          | 34                   | A            |
| Cl-        | 9.33       | 1.80  | 82.19 | 2975.1 | 82.0      | 0          | 34                   | A            |
| Mg++       | 0.628      | 0.120 | 5.840 | 200.5  | 82.0      | 0          | 34                   | A            |
| NO3-       | 0.30       | 0.05  | 2.22  | 94.5   | 82.0      | 0          | 34                   | A            |
| pH         | 5.08       | 4.34  | 6.45  | 2633.6 | 82.7      | 0          | 36                   | A            |
| K+         | 0.21       | 0.02  | 2.01  | 67.2   | 82.0      | 0          | 34                   | A            |
| Precip     | -          | 0.0   | 35.0  | 319.0  | 100.0     | 53         | 90                   |              |
| Na+        | 5.40       | 1.05  | 46.30 | 1723.1 | 82.0      | 0          | 34                   | A            |
| SO4-- corr | 0.32       | 0.03  | 2.48  | 100.9  | 82.0      | 0          | 34                   | A            |
| SO4--      | 0.77       | 0.12  | 6.36  | 245.1  | 82.0      | 0          | 34                   | A            |

FR0005R La Hague France

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.44       | 0.07  | 1.84  | 75.3   | 96.3      | 0          | 32                   | A            |
| Ca++       | 0.44       | 0.03  | 2.41  | 76.0   | 96.0      | 0          | 31                   | A            |
| Cl-        | 7.76       | 0.33  | 36.76 | 1327.1 | 96.0      | 0          | 31                   | A            |
| Mg++       | 0.580      | 0.040 | 2.370 | 99.2   | 96.0      | 0          | 31                   | A            |
| NO3-       | 0.44       | 0.06  | 1.89  | 74.7   | 96.0      | 0          | 31                   | A            |
| pH         | 4.86       | 4.22  | 6.25  | 2361.9 | 96.3      | 0          | 32                   | A            |
| K+         | 0.20       | 0.02  | 0.83  | 34.4   | 96.0      | 0          | 31                   | A            |
| Precip     | -          | 0.1   | 17.0  | 171.0  | 100.0     | 45         | 92                   |              |
| Na+        | 4.58       | 0.21  | 20.62 | 783.9  | 96.0      | 0          | 31                   | A            |
| SO4-- corr | 0.43       | 0.06  | 1.74  | 73.5   | 96.0      | 0          | 31                   | A            |
| SO4--      | 0.81       | 0.17  | 2.10  | 139.1  | 96.0      | 0          | 31                   | A            |

|                         |            |       |        |        |           |            |                      |              |
|-------------------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| FR0005R                 | La Hague   |       | France |        |           |            |                      |              |
| June 1999 - August 1999 |            |       |        |        |           |            |                      |              |
| Component               | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.30       | 0.03  | 3.37   | 53.5   | 93.6      | 0          | 19                   | A            |
| Ca++                    | 0.23       | 0.10  | 1.59   | 40.8   | 94.4      | 0          | 20                   | A            |
| Cl-                     | 4.14       | 0.19  | 29.51  | 736.6  | 94.4      | 0          | 20                   | A            |
| Mg++                    | 0.356      | 0.020 | 2.070  | 63.3   | 94.4      | 0          | 20                   | A            |
| NO3-                    | 0.24       | 0.05  | 2.30   | 43.2   | 94.4      | 0          | 20                   | A            |
| pH                      | 5.19       | 4.69  | 6.17   | 1146.4 | 96.5      | 0          | 23                   | A            |
| K+                      | 0.13       | 0.02  | 1.38   | 23.8   | 94.4      | 0          | 20                   | A            |
| Precip                  | -          | 0.1   | 49.5   | 178.0  | 100.0     | 56         | 92                   |              |
| Na+                     | 2.42       | 0.04  | 17.43  | 431.1  | 94.4      | 0          | 20                   | A            |
| SO4-- corr              | 0.27       | 0.10  | 1.42   | 48.3   | 94.4      | 0          | 20                   | A            |
| SO4--                   | 0.47       | 0.24  | 1.69   | 84.2   | 94.4      | 0          | 20                   | A            |

|                                |            |       |        |        |           |            |                      |              |
|--------------------------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| FR0005R                        | La Hague   |       | France |        |           |            |                      |              |
| September 1999 - November 1999 |            |       |        |        |           |            |                      |              |
| Component                      | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.30       | 0.05  | 2.16   | 72.8   | 98.2      | 0          | 39                   | A            |
| Ca++                           | 0.23       | 0.03  | 1.60   | 54.7   | 97.5      | 0          | 38                   | A            |
| Cl-                            | 6.32       | 0.52  | 51.00  | 1515.0 | 97.5      | 0          | 38                   | A            |
| Mg++                           | 0.498      | 0.040 | 3.940  | 119.3  | 97.5      | 0          | 38                   | A            |
| NO3-                           | 0.26       | 0.03  | 2.58   | 62.5   | 97.5      | 0          | 38                   | A            |
| pH                             | 4.95       | 3.94  | 6.02   | 2672.0 | 98.5      | 0          | 40                   | A            |
| K+                             | 0.17       | 0.02  | 1.70   | 42.1   | 97.5      | 0          | 38                   | A            |
| Precip                         | -          | 0.2   | 44.8   | 239.8  | 100.0     | 43         | 91                   |              |
| Na+                            | 3.80       | 0.43  | 31.10  | 911.3  | 97.5      | 0          | 38                   | A            |
| SO4-- corr                     | 0.28       | 0.06  | 1.87   | 66.2   | 97.5      | 0          | 38                   | A            |
| SO4--                          | 0.59       | 0.13  | 4.42   | 142.0  | 97.5      | 0          | 38                   | A            |

|                               |            |       |        |        |           |            |                      |              |
|-------------------------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| FR0008R                       | Donon      |       | France |        |           |            |                      |              |
| December 1998 - February 1999 |            |       |        |        |           |            |                      |              |
| Component                     | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.37       | 0.03  | 2.08   | 200.6  | 96.8      | 0          | 45                   | A            |
| Ca++                          | 0.09       | 0.02  | 0.55   | 50.6   | 96.8      | 0          | 45                   | A            |
| Cl-                           | 0.77       | 0.05  | 4.96   | 418.2  | 96.8      | 0          | 45                   | A            |
| Mg++                          | 0.061      | 0.020 | 0.370  | 32.8   | 96.8      | 0          | 45                   | A            |
| NO3-                          | 0.37       | 0.04  | 1.44   | 199.4  | 96.8      | 0          | 45                   | A            |
| pH                            | 4.74       | 4.12  | 5.53   | 9750.6 | 97.1      | 0          | 47                   | A            |
| K+                            | 0.05       | 0.02  | 0.22   | 24.5   | 96.8      | 0          | 45                   | A            |
| Precip                        | -          | 0.0   | 53.5   | 539.5  | 100.0     | 41         | 90                   |              |
| Na+                           | 0.47       | 0.02  | 2.92   | 253.2  | 96.8      | 0          | 45                   | A            |
| SO4-- corr                    | 0.41       | 0.07  | 1.51   | 221.2  | 96.8      | 0          | 45                   | A            |
| SO4--                         | 0.45       | 0.07  | 1.54   | 242.3  | 96.8      | 0          | 45                   | A            |

|                       |            |       |        |        |           |            |                      |              |
|-----------------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| FR0008R               | Donon      |       | France |        |           |            |                      |              |
| March 1999 - May 1999 |            |       |        |        |           |            |                      |              |
| Component             | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.50       | 0.08  | 1.77   | 239.1  | 97.4      | 0          | 45                   | A            |
| Ca++                  | 0.16       | 0.02  | 1.34   | 73.8   | 97.2      | 0          | 44                   | A            |
| Cl-                   | 0.25       | 0.05  | 1.54   | 120.2  | 97.2      | 0          | 44                   | A            |
| Mg++                  | 0.037      | 0.020 | 0.180  | 17.4   | 97.2      | 0          | 44                   | A            |
| NO3-                  | 0.37       | 0.08  | 2.01   | 175.0  | 97.2      | 0          | 44                   | A            |
| pH                    | 4.91       | 4.05  | 6.77   | 5788.7 | 99.5      | 0          | 49                   | A            |
| K+                    | 0.06       | 0.02  | 0.37   | 27.2   | 97.2      | 0          | 44                   | A            |
| Precip                | -          | 0.2   | 62.0   | 476.4  | 100.0     | 38         | 92                   |              |
| Na+                   | 0.16       | 0.02  | 0.91   | 74.9   | 97.2      | 0          | 44                   | A            |
| SO4-- corr            | 0.39       | 0.07  | 1.65   | 186.2  | 97.2      | 0          | 44                   | A            |
| SO4--                 | 0.40       | 0.08  | 1.71   | 192.6  | 97.2      | 0          | 44                   | A            |

| FR0008R                 |            | Donon |       | France |           |            |                      |              |
|-------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |       |       |        |           |            |                      |              |
| Component               | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.29       | 0.00  | 1.30  | 113.0  | 89.2      | 2          | 33                   | A            |
| Ca++                    | 0.21       | 0.00  | 2.79  | 83.6   | 88.9      | 2          | 32                   | A            |
| Cl-                     | 0.19       | 0.00  | 1.10  | 76.3   | 88.9      | 2          | 32                   | A            |
| Mg++                    | 0.039      | 0.000 | 0.280 | 15.1   | 88.9      | 2          | 32                   | A            |
| NO3-                    | 0.22       | 0.00  | 1.15  | 86.7   | 88.9      | 2          | 32                   | A            |
| pH                      | 5.07       | 4.34  | 6.46  | 3284.9 | 78.0      | 0          | 32                   | A            |
| K+                      | 0.05       | 0.00  | 1.11  | 20.0   | 88.9      | 2          | 32                   | A            |
| Precip                  | -          | 0.3   | 38.5  | 390.8  | 100.0     | 52         | 92                   |              |
| Na+                     | 0.12       | 0.00  | 0.64  | 48.8   | 88.9      | 2          | 32                   | A            |
| SO4-- corr              | 0.28       | 0.00  | 1.94  | 110.1  | 88.9      | 2          | 32                   | A            |
| SO4--                   | 0.29       | 0.00  | 1.98  | 114.5  | 88.9      | 2          | 32                   | A            |

| FR0008R                        |            | Donon |       | France |           |            |                      |              |
|--------------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |       |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.22       | 0.03  | 0.69  | 78.9   | 98.2      | 0          | 23                   | A            |
| Ca++                           | 0.18       | 0.02  | 1.57  | 66.3   | 98.2      | 0          | 23                   | A            |
| Cl-                            | 0.31       | 0.05  | 3.36  | 111.5  | 98.2      | 0          | 23                   | A            |
| Mg++                           | 0.052      | 0.020 | 0.280 | 19.0   | 98.2      | 0          | 23                   | A            |
| NO3-                           | 0.27       | 0.04  | 1.30  | 97.8   | 98.2      | 0          | 23                   | A            |
| pH                             | 4.77       | 4.02  | 6.52  | 6093.1 | 98.3      | 0          | 24                   | A            |
| K+                             | 0.03       | 0.02  | 0.26  | 12.5   | 98.2      | 0          | 23                   | A            |
| Precip                         | -          | 0.5   | 48.5  | 362.5  | 100.0     | 58         | 91                   |              |
| Na+                            | 0.17       | 0.02  | 1.93  | 63.1   | 98.2      | 0          | 23                   | A            |
| SO4-- corr                     | 0.29       | 0.05  | 0.90  | 104.5  | 98.2      | 0          | 23                   | A            |
| SO4--                          | 0.30       | 0.05  | 0.94  | 109.9  | 98.2      | 0          | 23                   | A            |

| FR0009R                       |            | Revin |       | France |           |            |                      |              |
|-------------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |       |       |        |           |            |                      |              |
| Component                     | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.39       | 0.19  | 1.19  | 60.9   | 67.6      | 0          | 15                   | A            |
| Ca++                          | 0.09       | 0.02  | 1.71  | 14.7   | 67.2      | 0          | 14                   | A            |
| Cl-                           | 1.11       | 0.11  | 8.11  | 171.6  | 67.2      | 0          | 14                   | A            |
| Mg++                          | 0.085      | 0.020 | 0.600 | 13.2   | 67.2      | 0          | 14                   | A            |
| NO3-                          | 0.35       | 0.14  | 1.03  | 53.6   | 67.2      | 0          | 14                   | A            |
| pH                            | 5.13       | 4.68  | 5.45  | 1135.5 | 68.6      | 0          | 18                   | A            |
| K+                            | 0.05       | 0.02  | 0.24  | 7.0    | 67.2      | 0          | 14                   | A            |
| Precip                        | -          | 0.0   | 34.0  | 154.6  | 100.0     | 83         | 90                   |              |
| Na+                           | 0.67       | 0.08  | 4.71  | 103.8  | 67.2      | 0          | 14                   | A            |
| SO4-- corr                    | 0.41       | 0.19  | 1.46  | 63.8   | 67.2      | 0          | 14                   | A            |
| SO4--                         | 0.47       | 0.20  | 1.76  | 72.5   | 67.2      | 0          | 14                   | A            |

| FR0009R               |            | Revin |       | France |           |            |                      |              |
|-----------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |       |       |        |           |            |                      |              |
| Component             | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.79       | 0.03  | 4.29  | 120.6  | 95.1      | 0          | 25                   | A            |
| Ca++                  | 0.38       | 0.02  | 3.53  | 57.6   | 95.1      | 0          | 25                   | A            |
| Cl-                   | 0.75       | 0.05  | 3.75  | 115.1  | 95.1      | 0          | 25                   | A            |
| Mg++                  | 0.073      | 0.020 | 0.320 | 11.2   | 95.1      | 0          | 25                   | A            |
| NO3-                  | 0.51       | 0.06  | 2.92  | 78.4   | 95.1      | 0          | 25                   | A            |
| pH                    | 5.03       | 3.80  | 6.84  | 1433.4 | 96.0      | 0          | 26                   | A            |
| K+                    | 0.05       | 0.02  | 0.35  | 8.4    | 95.1      | 0          | 25                   | A            |
| Precip                | -          | 0.3   | 20.0  | 153.6  | 100.0     | 57         | 92                   |              |
| Na+                   | 0.45       | 0.02  | 2.43  | 68.9   | 95.1      | 0          | 25                   | A            |
| SO4-- corr            | 0.48       | 0.05  | 2.19  | 73.5   | 95.1      | 0          | 25                   | A            |
| SO4--                 | 0.52       | 0.05  | 2.22  | 79.3   | 95.1      | 0          | 25                   | A            |

| FR0009R                 |            | Revin |       | France |           |            |                      |              |
|-------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |       |       |        |           |            |                      |              |
| Component               | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.46       | 0.15  | 1.68  | 120.4  | 98.3      | 0          | 24                   | A            |
| Ca++                    | 0.40       | 0.06  | 2.54  | 105.9  | 99.4      | 0          | 25                   | A            |
| Cl-                     | 0.38       | 0.09  | 2.65  | 101.2  | 99.4      | 0          | 25                   | A            |
| Mg++                    | 0.049      | 0.020 | 0.290 | 13.0   | 99.4      | 0          | 25                   | A            |
| NO3-                    | 0.30       | 0.12  | 0.94  | 80.0   | 99.4      | 0          | 25                   | A            |
| pH                      | 5.18       | 4.50  | 6.68  | 1748.4 | 99.8      | 0          | 27                   | A            |
| K+                      | 0.03       | 0.02  | 0.15  | 8.4    | 99.4      | 0          | 25                   | A            |
| Precip                  | -          | 0.5   | 72.0  | 263.5  | 100.0     | 64         | 92                   |              |
| Na+                     | 0.21       | 0.02  | 1.63  | 55.3   | 99.4      | 0          | 25                   | A            |
| SO4-- corr              | 0.43       | 0.08  | 1.46  | 112.0  | 99.4      | 0          | 25                   | A            |
| SO4--                   | 0.45       | 0.09  | 1.57  | 118.4  | 99.4      | 0          | 25                   | A            |

| FR0009R                        |            | Revin |       | France |           |            |                      |              |
|--------------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |       |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.30       | 0.09  | 3.96  | 100.5  | 97.1      | 0          | 37                   | A            |
| Ca++                           | 0.14       | 0.02  | 2.45  | 47.5   | 97.1      | 0          | 37                   | A            |
| Cl-                            | 0.52       | 0.05  | 5.12  | 174.5  | 97.1      | 0          | 37                   | A            |
| Mg++                           | 0.056      | 0.020 | 0.550 | 18.8   | 97.1      | 0          | 37                   | A            |
| NO3-                           | 0.26       | 0.07  | 2.60  | 88.6   | 97.1      | 0          | 37                   | A            |
| pH                             | 4.87       | 4.22  | 6.29  | 4532.6 | 97.7      | 0          | 40                   | A            |
| K+                             | 0.03       | 0.02  | 0.48  | 10.1   | 97.1      | 0          | 37                   | A            |
| Precip                         | -          | 0.2   | 44.5  | 336.2  | 100.0     | 40         | 91                   |              |
| Na+                            | 0.31       | 0.02  | 3.93  | 105.2  | 97.1      | 0          | 37                   | A            |
| SO4-- corr                     | 0.33       | 0.08  | 3.56  | 110.4  | 97.1      | 0          | 37                   | A            |
| SO4--                          | 0.36       | 0.09  | 3.89  | 119.7  | 97.1      | 0          | 37                   | A            |

| FR0010R                       |            | Morvan |       | France |           |            |                      |              |
|-------------------------------|------------|--------|-------|--------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |        |       |        |           |            |                      |              |
| Component                     | W.<br>mean | Min    | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.35       | 0.04   | 3.27  | 112.9  | 83.1      | 0          | 32                   | A            |
| Ca++                          | 0.11       | 0.03   | 2.45  | 37.3   | 83.1      | 0          | 32                   | A            |
| Cl-                           | 0.76       | 0.05   | 5.58  | 246.7  | 83.1      | 0          | 32                   | A            |
| Mg++                          | 0.071      | 0.020  | 0.420 | 23.2   | 83.1      | 0          | 32                   | A            |
| NO3-                          | 0.26       | 0.04   | 1.29  | 83.7   | 83.1      | 0          | 32                   | A            |
| pH                            | 5.06       | 4.31   | 6.39  | 2828.3 | 85.5      | 0          | 38                   | A            |
| K+                            | 0.05       | 0.02   | 0.26  | 15.1   | 83.1      | 0          | 32                   | A            |
| Precip                        | -          | 0.0    | 30.0  | 326.3  | 100.0     | 41         | 90                   |              |
| Na+                           | 0.46       | 0.02   | 3.42  | 151.2  | 83.1      | 0          | 32                   | A            |
| SO4-- corr                    | 0.28       | 0.02   | 1.68  | 92.0   | 83.1      | 0          | 32                   | A            |
| SO4--                         | 0.32       | 0.02   | 1.75  | 104.7  | 83.1      | 0          | 32                   | A            |

| FR0010R               |            | Morvan |       | France |           |            |                      |              |
|-----------------------|------------|--------|-------|--------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |        |       |        |           |            |                      |              |
| Component             | W.<br>mean | Min    | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.61       | 0.14   | 3.67  | 206.4  | 92.4      | 0          | 47                   | A            |
| Ca++                  | 0.41       | 0.07   | 4.66  | 136.1  | 92.4      | 0          | 47                   | A            |
| Cl-                   | 0.48       | 0.05   | 2.21  | 162.0  | 92.4      | 0          | 47                   | A            |
| Mg++                  | 0.074      | 0.020  | 0.330 | 25.0   | 92.4      | 0          | 47                   | A            |
| NO3-                  | 0.41       | 0.08   | 2.37  | 139.4  | 92.4      | 0          | 47                   | A            |
| pH                    | 5.12       | 4.44   | 7.14  | 2539.8 | 94.2      | 0          | 50                   | A            |
| K+                    | 0.08       | 0.02   | 1.05  | 26.9   | 92.4      | 0          | 47                   | A            |
| Precip                | -          | 0.2    | 40.0  | 335.8  | 100.0     | 33         | 92                   |              |
| Na+                   | 0.30       | 0.02   | 1.39  | 99.4   | 92.4      | 0          | 47                   | A            |
| SO4-- corr            | 0.43       | 0.13   | 1.70  | 145.2  | 92.4      | 0          | 47                   | A            |
| SO4--                 | 0.46       | 0.14   | 1.73  | 154.0  | 92.4      | 0          | 47                   | A            |

FR0010R Morvan France

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.37       | 0.03  | 1.49  | 60.9   | 97.6      | 0          | 26                   | A            |
| Ca++       | 0.29       | 0.08  | 1.38  | 47.9   | 98.1      | 0          | 27                   | A            |
| Cl-        | 0.24       | 0.05  | 2.57  | 39.8   | 98.1      | 0          | 27                   | A            |
| Mg++       | 0.048      | 0.020 | 0.230 | 8.0    | 98.1      | 0          | 27                   | A            |
| NO3-       | 0.28       | 0.03  | 1.01  | 45.7   | 98.1      | 0          | 27                   | A            |
| pH         | 5.07       | 4.60  | 6.30  | 1413.9 | 98.8      | 0          | 30                   | A            |
| K+         | 0.10       | 0.02  | 1.63  | 17.1   | 98.1      | 0          | 27                   | A            |
| Precip     | -          | 0.2   | 17.6  | 165.8  | 100.0     | 56         | 92                   |              |
| Na+        | 0.14       | 0.02  | 1.65  | 22.7   | 98.1      | 0          | 27                   | A            |
| SO4-- corr | 0.40       | 0.12  | 1.71  | 66.0   | 98.1      | 0          | 27                   | A            |
| SO4--      | 0.41       | 0.12  | 1.74  | 68.2   | 98.1      | 0          | 27                   | A            |

FR0010R Morvan France

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.20       | 0.03  | 1.43  | 55.4   | 98.5      | 0          | 35                   | A            |
| Ca++       | 0.34       | 0.02  | 1.84  | 93.1   | 98.5      | 0          | 35                   | A            |
| Cl-        | 0.58       | 0.05  | 1.82  | 159.2  | 98.5      | 0          | 35                   | A            |
| Mg++       | 0.074      | 0.020 | 0.200 | 20.4   | 98.5      | 0          | 35                   | A            |
| NO3-       | 0.23       | 0.02  | 1.73  | 64.0   | 98.5      | 0          | 35                   | A            |
| pH         | 4.90       | 4.00  | 6.70  | 3473.3 | 99.1      | 0          | 37                   | A            |
| K+         | 0.51       | 0.02  | 3.82  | 141.3  | 98.5      | 0          | 35                   | A            |
| Precip     | -          | 0.2   | 55.6  | 274.1  | 100.0     | 48         | 91                   |              |
| Na+        | 0.31       | 0.02  | 1.04  | 84.6   | 98.5      | 0          | 35                   | A            |
| SO4-- corr | 0.29       | 0.02  | 1.28  | 79.9   | 98.5      | 0          | 35                   | A            |
| SO4--      | 0.32       | 0.02  | 1.28  | 89.2   | 98.5      | 0          | 35                   | A            |

FR0012R Iraty France

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.62       | 0.03  | 25.66 | 248.3  | 92.2      | 0          | 37                   | A            |
| Ca++       | 0.18       | 0.03  | 1.54  | 71.4   | 91.4      | 0          | 36                   | A            |
| Cl-        | 0.86       | 0.05  | 9.09  | 346.3  | 91.4      | 0          | 36                   | A            |
| Mg++       | 0.096      | 0.020 | 0.730 | 38.7   | 91.4      | 0          | 36                   | A            |
| NO3-       | 0.12       | 0.02  | 1.64  | 47.6   | 91.4      | 0          | 36                   | A            |
| pH         | 5.26       | 4.63  | 7.84  | 2199.0 | 92.6      | 0          | 40                   | A            |
| K+         | 0.14       | 0.02  | 2.29  | 57.8   | 91.4      | 0          | 36                   | A            |
| Precip     | -          | 0.0   | 35.8  | 402.5  | 100.0     | 44         | 90                   |              |
| Na+        | 0.53       | 0.02  | 5.08  | 214.8  | 91.4      | 0          | 36                   | A            |
| SO4-- corr | 0.22       | 0.03  | 1.05  | 89.8   | 91.4      | 0          | 36                   | A            |
| SO4--      | 0.27       | 0.04  | 1.06  | 107.8  | 91.4      | 0          | 36                   | A            |

FR0012R Iraty France

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.04  | 2.82  | 170.4  | 79.9      | 0          | 43                   | A            |
| Ca++       | 0.61       | 0.05  | 7.01  | 297.8  | 77.8      | 0          | 42                   | A            |
| Cl-        | 0.85       | 0.05  | 10.41 | 412.7  | 77.8      | 0          | 42                   | A            |
| Mg++       | 0.095      | 0.020 | 0.720 | 46.4   | 77.8      | 0          | 42                   | A            |
| NO3-       | 0.22       | 0.04  | 2.85  | 106.2  | 77.8      | 0          | 42                   | A            |
| pH         | 5.34       | 4.32  | 7.39  | 2241.4 | 80.6      | 0          | 44                   | A            |
| K+         | 0.06       | 0.02  | 2.27  | 29.6   | 77.8      | 0          | 42                   | A            |
| Precip     | -          | 0.2   | 55.2  | 488.5  | 100.0     | 32         | 92                   |              |
| Na+        | 0.51       | 0.02  | 5.94  | 247.9  | 77.8      | 0          | 42                   | A            |
| SO4-- corr | 0.31       | 0.06  | 2.23  | 150.0  | 77.8      | 0          | 42                   | A            |
| SO4--      | 0.35       | 0.06  | 2.37  | 170.4  | 77.8      | 0          | 42                   | A            |

| FR0012R                 |            | Iraty |       | France |           |            |                      |              |
|-------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |       |       |        |           |            |                      |              |
| Component               | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.60       | 0.03  | 2.06  | 213.9  | 99.4      | 0          | 37                   | A            |
| Ca++                    | 0.85       | 0.08  | 11.11 | 301.8  | 99.4      | 0          | 37                   | A            |
| Cl-                     | 0.26       | 0.05  | 4.11  | 92.6   | 99.4      | 0          | 37                   | A            |
| Mg++                    | 0.093      | 0.020 | 1.370 | 32.9   | 99.4      | 0          | 37                   | A            |
| NO3-                    | 0.40       | 0.04  | 2.28  | 140.0  | 99.4      | 0          | 37                   | A            |
| pH                      | 5.26       | 3.86  | 7.07  | 1965.6 | 99.7      | 0          | 39                   | A            |
| K+                      | 0.05       | 0.02  | 0.70  | 19.3   | 99.4      | 0          | 37                   | A            |
| Precip                  | -          | 0.2   | 46.4  | 354.8  | 100.0     | 49         | 92                   |              |
| Na+                     | 0.21       | 0.02  | 3.01  | 75.6   | 99.4      | 0          | 37                   | A            |
| SO4-- corr              | 0.71       | 0.11  | 4.66  | 252.0  | 99.4      | 0          | 37                   | A            |
| SO4--                   | 0.73       | 0.11  | 4.84  | 258.4  | 99.4      | 0          | 37                   | A            |

| FR0012R                        |            | Iraty |       | France |           |            |                      |              |
|--------------------------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |       |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.24       | 0.03  | 2.68  | 112.9  | 93.5      | 0          | 39                   | A            |
| Ca++                           | 0.26       | 0.04  | 6.91  | 121.0  | 93.5      | 0          | 39                   | A            |
| Cl-                            | 0.52       | 0.05  | 4.93  | 247.4  | 93.5      | 0          | 39                   | A            |
| Mg++                           | 0.083      | 0.020 | 0.580 | 39.5   | 93.5      | 0          | 39                   | A            |
| NO3-                           | 0.19       | 0.05  | 1.94  | 88.3   | 93.5      | 0          | 39                   | A            |
| pH                             | 5.15       | 4.47  | 7.13  | 3348.6 | 93.5      | 0          | 40                   | A            |
| K+                             | 0.04       | 0.02  | 1.91  | 16.5   | 93.5      | 0          | 39                   | A            |
| Precip                         | -          | 0.2   | 46.4  | 473.1  | 100.0     | 38         | 91                   |              |
| Na+                            | 0.31       | 0.02  | 2.98  | 147.1  | 93.5      | 0          | 39                   | A            |
| SO4-- corr                     | 0.27       | 0.05  | 2.49  | 127.7  | 93.5      | 0          | 39                   | A            |
| SO4--                          | 0.30       | 0.06  | 2.53  | 140.5  | 93.5      | 0          | 39                   | A            |

| FR0013R                       |            | Peyrusse Vieille |       | France |           |            |                      |              |
|-------------------------------|------------|------------------|-------|--------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |                  |       |        |           |            |                      |              |
| Component                     | W.<br>mean | Min              | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.29       | 0.06             | 1.51  | 38.7   | 76.8      | 0          | 29                   | A            |
| Ca++                          | 0.35       | 0.06             | 2.89  | 46.0   | 76.8      | 0          | 29                   | A            |
| Cl-                           | 3.32       | 0.11             | 20.47 | 440.8  | 76.8      | 0          | 29                   | A            |
| Mg++                          | 0.260      | 0.020            | 1.410 | 34.5   | 76.8      | 0          | 29                   | A            |
| NO3-                          | 0.27       | 0.05             | 1.18  | 35.4   | 76.8      | 0          | 29                   | A            |
| pH                            | 4.91       | 4.43             | 6.18  | 1645.4 | 79.0      | 0          | 31                   | A            |
| K+                            | 0.14       | 0.02             | 0.71  | 18.6   | 76.8      | 0          | 29                   | A            |
| Precip                        | -          | 0.0              | 17.0  | 132.6  | 100.0     | 50         | 90                   |              |
| Na+                           | 1.98       | 0.05             | 11.86 | 263.2  | 76.8      | 0          | 29                   | A            |
| SO4-- corr                    | 0.51       | 0.15             | 2.26  | 67.4   | 76.8      | 0          | 29                   | A            |
| SO4--                         | 0.68       | 0.21             | 2.29  | 89.5   | 76.8      | 0          | 29                   | A            |

| FR0013R               |            | Peyrusse Vieille |       | France |           |            |                      |              |
|-----------------------|------------|------------------|-------|--------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |                  |       |        |           |            |                      |              |
| Component             | W.<br>mean | Min              | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.47       | 0.03             | 8.04  | 106.2  | 97.4      | 0          | 41                   | A            |
| Ca++                  | 0.39       | 0.03             | 3.91  | 87.2   | 96.1      | 0          | 37                   | A            |
| Cl-                   | 1.33       | 0.05             | 7.76  | 300.2  | 96.1      | 0          | 37                   | A            |
| Mg++                  | 0.128      | 0.020            | 0.640 | 28.9   | 96.1      | 0          | 37                   | A            |
| NO3-                  | 0.34       | 0.04             | 6.22  | 76.6   | 96.1      | 0          | 37                   | A            |
| pH                    | 5.05       | 4.46             | 7.32  | 1999.0 | 98.3      | 0          | 44                   | A            |
| K+                    | 0.12       | 0.02             | 0.98  | 27.2   | 96.1      | 0          | 37                   | A            |
| Precip                | -          | 0.1              | 21.0  | 225.9  | 100.0     | 40         | 92                   |              |
| Na+                   | 0.80       | 0.02             | 4.96  | 180.1  | 96.1      | 0          | 37                   | A            |
| SO4-- corr            | 0.48       | 0.12             | 3.22  | 107.8  | 96.1      | 0          | 37                   | A            |
| SO4--                 | 0.54       | 0.14             | 3.30  | 122.9  | 96.1      | 0          | 37                   | A            |

FR0013R Peyrusse Vieille France

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.53       | 0.31  | 1.60  | 101.0  | 92.9      | 0          | 19 A                 |              |
| Ca++       | 0.60       | 0.02  | 9.10  | 113.4  | 93.3      | 0          | 20 A                 |              |
| Cl-        | 0.18       | 0.05  | 1.10  | 34.8   | 93.3      | 0          | 20 A                 |              |
| Mg++       | 0.056      | 0.020 | 0.460 | 10.5   | 93.3      | 0          | 20 A                 |              |
| NO3-       | 0.35       | 0.21  | 1.55  | 66.8   | 93.3      | 0          | 20 A                 |              |
| pH         | 5.03       | 4.40  | 6.91  | 1772.2 | 94.2      | 0          | 23 A                 |              |
| K+         | 0.05       | 0.02  | 0.45  | 9.9    | 93.3      | 0          | 20 A                 |              |
| Precip     | -          | 0.2   | 33.5  | 189.1  | 100.0     | 57         | 92                   |              |
| Na+        | 0.10       | 0.02  | 0.58  | 19.4   | 93.3      | 0          | 20 A                 |              |
| SO4-- corr | 0.58       | 0.35  | 2.02  | 110.3  | 93.3      | 0          | 20 A                 |              |
| SO4--      | 0.59       | 0.35  | 2.07  | 112.2  | 93.3      | 0          | 20 A                 |              |

FR0013R Peyrusse Vieille France

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.31       | 0.09  | 1.87  | 57.3   | 97.5      | 0          | 34 A                 |              |
| Ca++       | 0.28       | 0.04  | 2.21  | 52.4   | 97.1      | 0          | 33 A                 |              |
| Cl-        | 1.36       | 0.07  | 12.75 | 253.0  | 97.1      | 0          | 33 A                 |              |
| Mg++       | 0.121      | 0.020 | 0.900 | 22.5   | 97.1      | 0          | 33 A                 |              |
| NO3-       | 0.26       | 0.05  | 1.11  | 48.5   | 97.1      | 0          | 33 A                 |              |
| pH         | 4.93       | 4.29  | 6.71  | 2198.9 | 98.3      | 0          | 36 A                 |              |
| K+         | 0.11       | 0.02  | 0.82  | 20.0   | 97.1      | 0          | 33 A                 |              |
| Precip     | -          | 0.2   | 36.0  | 186.2  | 100.0     | 45         | 91                   |              |
| Na+        | 0.80       | 0.02  | 7.45  | 148.1  | 97.1      | 0          | 33 A                 |              |
| SO4-- corr | 0.34       | 0.08  | 1.21  | 62.8   | 97.1      | 0          | 33 A                 |              |
| SO4--      | 0.41       | 0.08  | 1.26  | 75.4   | 97.1      | 0          | 33 A                 |              |

FR0014R Montandon France

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.25       | 0.03  | 1.81  | 64.2   | 67.8      | 0          | 25 A                 |              |
| Ca++       | 0.12       | 0.02  | 1.71  | 29.7   | 63.3      | 0          | 24 A                 |              |
| Cl-        | 0.57       | 0.05  | 2.47  | 146.2  | 63.3      | 0          | 24 A                 |              |
| Mg++       | 0.062      | 0.020 | 0.590 | 15.9   | 63.3      | 0          | 24 A                 |              |
| NO3-       | 0.30       | 0.06  | 2.32  | 76.2   | 63.3      | 0          | 24 A                 |              |
| pH         | 4.89       | 4.35  | 6.22  | 3304.5 | 69.4      | 0          | 29 A                 |              |
| K+         | 0.03       | 0.02  | 0.13  | 7.7    | 63.3      | 0          | 24 A                 |              |
| Precip     | -          | 0.0   | 18.0  | 216.8  | 98.9      | 50         | 89                   |              |
| Na+        | 0.36       | 0.02  | 1.55  | 92.8   | 63.3      | 0          | 24 A                 |              |
| SO4-- corr | 0.25       | 0.05  | 2.37  | 65.0   | 63.3      | 0          | 24 A                 |              |
| SO4--      | 0.28       | 0.05  | 2.49  | 72.6   | 63.3      | 0          | 24 A                 |              |

FR0014R Montandon France

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.39       | 0.03  | 5.93  | 160.5  | 98.3      | 0          | 48 A                 |              |
| Ca++       | 0.40       | 0.02  | 3.57  | 164.8  | 98.1      | 0          | 47 A                 |              |
| Cl-        | 0.18       | 0.05  | 0.95  | 74.3   | 98.1      | 0          | 47 A                 |              |
| Mg++       | 0.044      | 0.020 | 0.320 | 18.0   | 98.1      | 0          | 47 A                 |              |
| NO3-       | 0.30       | 0.06  | 4.49  | 124.7  | 98.1      | 0          | 47 A                 |              |
| pH         | 5.16       | 4.23  | 7.02  | 2822.9 | 98.4      | 0          | 49 A                 |              |
| K+         | 0.05       | 0.02  | 0.82  | 22.2   | 98.1      | 0          | 47 A                 |              |
| Precip     | -          | 0.2   | 55.8  | 412.0  | 100.0     | 36         | 92                   |              |
| Na+        | 0.12       | 0.02  | 0.50  | 48.0   | 98.1      | 0          | 47 A                 |              |
| SO4-- corr | 0.31       | 0.06  | 3.91  | 129.6  | 98.1      | 0          | 47 A                 |              |
| SO4--      | 0.33       | 0.06  | 3.94  | 134.2  | 98.1      | 0          | 47 A                 |              |

| FR0014R                 |            | Montandon |       | France |           |            |                      |              |
|-------------------------|------------|-----------|-------|--------|-----------|------------|----------------------|--------------|
| June 1999 - August 1999 |            |           |       |        |           |            |                      |              |
| Component               | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                    | 0.40       | 0.03      | 1.12  | 154.1  | 98.7      | 0          | 33                   | A            |
| Ca++                    | 0.27       | 0.04      | 5.61  | 102.2  | 99.0      | 0          | 34                   | A            |
| Cl-                     | 0.14       | 0.05      | 0.74  | 54.0   | 99.0      | 0          | 34                   | A            |
| Mg++                    | 0.036      | 0.020     | 0.300 | 13.8   | 99.0      | 0          | 34                   | A            |
| NO3-                    | 0.31       | 0.11      | 1.52  | 118.8  | 99.0      | 0          | 34                   | A            |
| pH                      | 4.89       | 4.18      | 6.77  | 4950.9 | 99.5      | 0          | 36                   | A            |
| K+                      | 0.05       | 0.02      | 0.81  | 19.5   | 99.0      | 0          | 34                   | A            |
| Precip                  | -          | 0.2       | 51.6  | 383.5  | 100.0     | 49         | 92                   |              |
| Na+                     | 0.09       | 0.02      | 0.65  | 33.2   | 99.0      | 0          | 34                   | A            |
| SO4-- corr              | 0.44       | 0.15      | 1.71  | 168.3  | 99.0      | 0          | 34                   | A            |
| SO4--                   | 0.45       | 0.15      | 1.76  | 171.6  | 99.0      | 0          | 34                   | A            |

| FR0014R                        |            | Montandon |       | France |           |            |                      |              |
|--------------------------------|------------|-----------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |           |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.14       | 0.03      | 1.26  | 49.8   | 99.1      | 0          | 27                   | A            |
| Ca++                           | 0.14       | 0.02      | 2.18  | 49.7   | 99.0      | 0          | 26                   | A            |
| Cl-                            | 0.17       | 0.05      | 1.49  | 59.9   | 99.0      | 0          | 26                   | A            |
| Mg++                           | 0.026      | 0.020     | 0.140 | 8.9    | 99.0      | 0          | 26                   | A            |
| NO3-                           | 0.19       | 0.03      | 0.88  | 65.6   | 99.0      | 0          | 26                   | A            |
| pH                             | 4.92       | 4.27      | 6.64  | 4214.8 | 99.3      | 0          | 29                   | A            |
| K+                             | 0.03       | 0.02      | 0.46  | 10.0   | 99.0      | 0          | 26                   | A            |
| Precip                         | -          | 0.2       | 73.6  | 347.6  | 100.0     | 55         | 91                   |              |
| Na+                            | 0.10       | 0.02      | 1.01  | 34.5   | 99.0      | 0          | 26                   | A            |
| SO4-- corr                     | 0.18       | 0.03      | 0.89  | 61.7   | 99.0      | 0          | 26                   | A            |
| SO4--                          | 0.19       | 0.03      | 0.92  | 65.9   | 99.0      | 0          | 26                   | A            |

| GB0002R                       |            | Eskdalemuir |       | United Kingdom |           |            |                      |              |
|-------------------------------|------------|-------------|-------|----------------|-----------|------------|----------------------|--------------|
| December 1998 - February 1999 |            |             |       |                |           |            |                      |              |
| Component                     | W.<br>mean | Min         | Max   | Dep            | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                          | 0.18       | 0.03        | 1.72  | 69.4           | 99.8      | 0          | 66                   | A            |
| Ca++                          | 0.31       | 0.08        | 2.00  | 120.5          | 99.8      | 0          | 66                   | B            |
| Cl-                           | 6.69       | 0.25        | 78.41 | 2599.7         | 99.8      | 0          | 66                   | C            |
| Mg++                          | 0.729      | 0.025       | 6.622 | 283.3          | 99.8      | 0          | 66                   | B            |
| NO3-                          | 0.11       | 0.01        | 1.06  | 42.3           | 99.8      | 3          | 66                   | A            |
| pH                            | 5.25       | 4.60        | 6.06  | 2184.0         | 99.8      | 0          | 66                   | A            |
| K+                            | 0.13       | 0.03        | 1.64  | 50.7           | 99.8      | 25         | 66                   | A            |
| Precip                        | -          | 0.0         | 31.1  | 388.8          | 100.0     | 23         | 90                   |              |
| Na+                           | 3.79       | 0.05        | 45.27 | 1473.2         | 99.8      | 0          | 66                   | A            |
| SO4-- corr                    | 0.18       | -0.02       | 2.49  | 71.6           | 99.8      | 3          | 66                   | A            |
| SO4--                         | 0.51       | 0.02        | 3.67  | 196.8          | 99.8      | 3          | 66                   | A            |

| GB0002R               |            | Eskdalemuir |       | United Kingdom |           |            |                      |              |
|-----------------------|------------|-------------|-------|----------------|-----------|------------|----------------------|--------------|
| March 1999 - May 1999 |            |             |       |                |           |            |                      |              |
| Component             | W.<br>mean | Min         | Max   | Dep            | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                  | 0.31       | 0.05        | 5.29  | 100.6          | 99.8      | 0          | 54                   | A            |
| Ca++                  | 0.25       | 0.03        | 1.82  | 80.2           | 99.8      | 1          | 54                   | B            |
| Cl-                   | 1.86       | 0.28        | 20.40 | 595.1          | 99.8      | 0          | 54                   | C            |
| Mg++                  | 0.305      | 0.025       | 1.569 | 97.5           | 99.8      | 2          | 54                   | B            |
| NO3-                  | 0.23       | 0.01        | 6.05  | 74.0           | 99.8      | 3          | 54                   | A            |
| pH                    | 4.93       | 3.98        | 6.15  | 3781.1         | 99.8      | 0          | 54                   | A            |
| K+                    | 0.05       | 0.02        | 0.46  | 15.6           | 99.8      | 24         | 54                   | A            |
| Precip                | -          | 0.0         | 29.5  | 319.4          | 100.0     | 31         | 92                   |              |
| Na+                   | 1.06       | 0.06        | 11.47 | 338.9          | 99.8      | 0          | 54                   | A            |
| SO4-- corr            | 0.32       | 0.09        | 4.14  | 102.2          | 99.8      | 0          | 54                   | A            |
| SO4--                 | 0.41       | 0.12        | 4.42  | 131.5          | 99.8      | 0          | 54                   | A            |

GB0002R Eskdalemuir United Kingdom

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.42       | 0.01  | 2.44  | 85.4   | 99.4      | 1          | 42                   | A            |
| Ca++       | 0.21       | 0.05  | 1.65  | 42.3   | 99.4      | 0          | 42                   | B            |
| Cl-        | 0.67       | 0.33  | 2.84  | 136.5  | 89.9      | 0          | 39                   | C            |
| Mg++       | 0.084      | 0.025 | 0.517 | 17.2   | 99.4      | 8          | 42                   | B            |
| NO3-       | 0.38       | 0.01  | 2.40  | 78.4   | 99.4      | 1          | 42                   | A            |
| pH         | 4.63       | 4.25  | 6.45  | 4764.5 | 99.4      | 0          | 42                   | A            |
| K+         | 0.05       | 0.03  | 1.02  | 10.2   | 99.4      | 25         | 42                   | A            |
| Precip     | -          | 0.0   | 21.4  | 205.1  | 100.0     | 40         | 92                   |              |
| Na+        | 0.32       | 0.09  | 1.56  | 66.7   | 89.9      | 0          | 39                   | A            |
| SO4-- corr | 0.48       | 0.16  | 1.84  | 97.9   | 99.4      | 0          | 42                   | A            |
| SO4--      | 0.52       | 0.17  | 1.87  | 107.2  | 99.4      | 0          | 42                   | A            |

GB0002R Eskdalemuir United Kingdom

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.13       | 0.01  | 0.79  | 47.3   | 99.8      | 2          | 52                   | A            |
| Ca++       | 0.25       | 0.03  | 1.12  | 87.5   | 99.8      | 4          | 52                   | B            |
| Cl-        | 5.04       | 0.38  | 37.43 | 1776.5 | 97.8      | 0          | 51                   | C            |
| Mg++       | 0.546      | 0.025 | 4.393 | 192.6  | 99.8      | 3          | 52                   | B            |
| NO3-       | 0.16       | 0.02  | 1.44  | 57.9   | 99.8      | 0          | 52                   | A            |
| pH         | 4.77       | 4.04  | 5.51  | 5943.7 | 99.8      | 0          | 52                   | A            |
| K+         | 0.12       | 0.01  | 0.97  | 43.1   | 99.8      | 15         | 52                   | A            |
| Precip     | -          | 0.0   | 28.6  | 352.5  | 100.0     | 29         | 91                   |              |
| Na+        | 2.90       | 0.12  | 21.25 | 1023.1 | 97.8      | 0          | 51                   | A            |
| SO4-- corr | 0.27       | 0.07  | 1.74  | 96.6   | 99.8      | 0          | 52                   | A            |
| SO4--      | 0.51       | 0.08  | 2.40  | 180.8  | 99.8      | 0          | 52                   | A            |

GB0006R Lough Navar United Kingdom

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.08       | 0.01  | 1.68  | 33.1   | 87.3      | 9          | 66                   | A            |
| Ca++       | 0.63       | 0.23  | 2.64  | 278.1  | 87.3      | 0          | 66                   | B            |
| Cl-        | 9.42       | 0.37  | 84.02 | 4140.7 | 87.3      | 0          | 66                   | C            |
| Mg++       | 1.155      | 0.193 | 9.357 | 507.7  | 87.3      | 0          | 66                   | B            |
| NO3-       | 0.04       | 0.01  | 0.61  | 19.4   | 87.3      | 13         | 66                   | A            |
| pH         | 5.41       | 5.18  | 6.30  | 1718.5 | 87.3      | 0          | 66                   | A            |
| K+         | 0.20       | 0.03  | 1.73  | 89.8   | 87.3      | 4          | 66                   | A            |
| Precip     | -          | 0.0   | 30.6  | 439.6  | 100.0     | 22         | 90                   |              |
| Na+        | 5.46       | 0.14  | 52.22 | 2402.1 | 87.3      | 0          | 66                   | A            |
| SO4-- corr | 0.10       | -0.38 | 2.21  | 43.3   | 87.3      | 6          | 66                   | A            |
| SO4--      | 0.56       | 0.02  | 3.99  | 244.6  | 87.3      | 4          | 66                   | A            |

GB0006R Lough Navar United Kingdom

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.26       | 0.05  | 1.05  | 20.2  | 99.8      | 0          | 22                   | A            |
| Ca++       | 0.66       | 0.20  | 1.74  | 51.3  | 99.8      | 0          | 22                   | B            |
| Cl-        | 6.00       | 0.39  | 34.77 | 465.2 | 99.8      | 0          | 22                   | C            |
| Mg++       | 0.827      | 0.209 | 4.203 | 64.1  | 99.8      | 0          | 22                   | B            |
| NO3-       | 0.10       | 0.01  | 0.80  | 8.1   | 99.8      | 6          | 22                   | A            |
| pH         | 5.50       | 4.88  | 6.46  | 246.7 | 99.8      | 0          | 22                   | A            |
| K+         | 0.29       | 0.05  | 2.78  | 22.4  | 99.8      | 0          | 22                   | A            |
| Precip     | -          | 0.0   | 11.3  | 77.5  | 38.0      | 9          | 35                   |              |
| Na+        | 3.44       | 0.29  | 18.90 | 266.4 | 99.8      | 0          | 22                   | A            |
| SO4-- corr | 0.19       | -1.28 | 1.01  | 14.6  | 99.8      | 2          | 22                   | A            |
| SO4--      | 0.51       | 0.02  | 1.89  | 39.2  | 99.8      | 1          | 22                   | A            |

GB0013R Yarner Wood United Kingdom

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.16       | 0.01  | 2.39  | 56.9   | 99.9      | 0          | 56           | A          |              |
| Ca++       | 0.35       | 0.14  | 2.80  | 123.4  | 99.9      | 0          | 56           | B          |              |
| Cl-        | 4.54       | 0.40  | 24.60 | 1589.5 | 99.9      | 0          | 56           | C          |              |
| Mg++       | 0.601      | 0.100 | 2.280 | 210.6  | 99.9      | 0          | 56           | B          |              |
| NO3-       | 0.08       | 0.01  | 1.56  | 29.5   | 99.9      | 4          | 56           | A          |              |
| pH         | 5.31       | 4.49  | 6.57  | 1697.7 | 99.9      | 0          | 56           | A          |              |
| K+         | 0.10       | 0.03  | 0.83  | 34.0   | 99.9      | 11         | 56           | A          |              |
| Precip     | -          | 0.0   | 31.2  | 350.2  | 100.0     | 44         | 90           |            |              |
| Na+        | 2.62       | 0.14  | 13.94 | 915.6  | 99.9      | 0          | 56           | A          |              |
| SO4-- corr | 0.16       | 0.02  | 1.66  | 54.4   | 99.9      | 0          | 56           | A          |              |
| SO4--      | 0.38       | 0.02  | 2.65  | 131.5  | 99.9      | 0          | 56           | A          |              |

GB0013R Yarner Wood United Kingdom

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.37       | 0.08  | 5.35  | 28.1  | 99.6      | 0          | 18           | A          |              |
| Ca++       | 0.45       | 0.20  | 3.90  | 33.7  | 99.6      | 0          | 18           | B          |              |
| Cl-        | 2.98       | 0.40  | 12.30 | 224.5 | 99.6      | 0          | 18           | C          |              |
| Mg++       | 0.410      | 0.079 | 1.182 | 30.9  | 99.6      | 0          | 18           | B          |              |
| NO3-       | 0.22       | 0.01  | 3.47  | 16.6  | 99.6      | 1          | 18           | A          |              |
| pH         | 5.19       | 4.60  | 7.11  | 486.1 | 99.6      | 0          | 18           | A          |              |
| K+         | 0.07       | 0.03  | 0.42  | 5.3   | 99.6      | 7          | 18           | A          |              |
| Precip     | -          | 0.1   | 12.6  | 75.3  | 40.2      | 17         | 37           |            |              |
| Na+        | 1.72       | 0.12  | 7.23  | 129.8 | 99.6      | 0          | 18           | A          |              |
| SO4-- corr | 0.32       | -0.01 | 3.82  | 23.9  | 99.6      | 1          | 18           | A          |              |
| SO4--      | 0.47       | 0.22  | 4.21  | 35.3  | 99.6      | 0          | 18           | A          |              |

GB0014R High Muffles United Kingdom

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.51       | 0.05  | 3.36  | 71.8   | 99.7      | 0          | 52           | A          |              |
| Ca++       | 0.32       | 0.03  | 1.44  | 44.8   | 99.7      | 0          | 52           | B          |              |
| Cl-        | 4.74       | 0.51  | 33.43 | 671.1  | 92.7      | 0          | 49           | C          |              |
| Mg++       | 0.427      | 0.025 | 3.655 | 60.4   | 99.7      | 2          | 52           | B          |              |
| NO3-       | 0.37       | 0.06  | 2.39  | 52.6   | 99.7      | 0          | 52           | A          |              |
| pH         | 4.71       | 4.01  | 6.12  | 2776.5 | 99.7      | 0          | 52           | A          |              |
| K+         | 0.10       | 0.03  | 0.86  | 14.0   | 99.7      | 14         | 52           | A          |              |
| Precip     | -          | 0.0   | 9.5   | 141.5  | 100.0     | 37         | 90           |            |              |
| Na+        | 2.56       | 0.23  | 19.06 | 362.4  | 92.7      | 0          | 49           | A          |              |
| SO4-- corr | 0.56       | 0.16  | 2.43  | 80.0   | 99.7      | 0          | 52           | A          |              |
| SO4--      | 0.78       | 0.22  | 2.64  | 110.3  | 99.7      | 0          | 52           | A          |              |

GB0014R High Muffles United Kingdom

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.54       | 0.06  | 5.14  | 150.7  | 95.7      | 0          | 43           | A          |              |
| Ca++       | 0.37       | 0.07  | 3.16  | 105.2  | 95.7      | 0          | 43           | B          |              |
| Cl-        | 2.14       | 0.40  | 8.01  | 602.1  | 95.5      | 0          | 42           | C          |              |
| Mg++       | 0.246      | 0.025 | 1.017 | 69.2   | 95.7      | 3          | 43           | B          |              |
| NO3-       | 0.44       | 0.05  | 4.33  | 125.3  | 95.7      | 0          | 43           | A          |              |
| pH         | 4.71       | 3.75  | 6.38  | 5545.8 | 95.7      | 0          | 43           | A          |              |
| K+         | 0.06       | 0.03  | 0.38  | 18.2   | 95.7      | 10         | 43           | A          |              |
| Precip     | -          | 0.0   | 31.0  | 281.8  | 100.0     | 42         | 92           |            |              |
| Na+        | 1.22       | 0.09  | 4.80  | 343.3  | 95.5      | 0          | 42           | A          |              |
| SO4-- corr | 0.55       | 0.19  | 3.74  | 155.1  | 95.7      | 0          | 43           | A          |              |
| SO4--      | 0.65       | 0.27  | 3.94  | 184.2  | 95.7      | 0          | 43           | A          |              |

GB0014R High Muffles United Kingdom

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.51       | 0.08  | 3.82  | 104.4  | 99.9      | 0          | 37                   | A            |
| Ca++       | 0.29       | 0.03  | 2.00  | 60.0   | 99.9      | 1          | 37                   | B            |
| Cl-        | 2.07       | 0.25  | 10.51 | 422.3  | 96.6      | 0          | 36                   | C            |
| Mg++       | 0.204      | 0.025 | 1.115 | 41.7   | 99.9      | 6          | 37                   | B            |
| NO3-       | 0.44       | 0.08  | 3.01  | 88.9   | 99.9      | 0          | 37                   | A            |
| pH         | 4.57       | 3.80  | 6.54  | 5488.7 | 99.9      | 0          | 37                   | A            |
| K+         | 0.07       | 0.03  | 0.50  | 14.5   | 99.9      | 13         | 37                   | A            |
| Precip     | -          | 0.0   | 26.2  | 203.9  | 100.0     | 51         | 92                   |              |
| Na+        | 1.14       | 0.08  | 7.35  | 233.4  | 96.6      | 0          | 36                   | A            |
| SO4-- corr | 0.65       | 0.13  | 7.06  | 131.7  | 99.9      | 0          | 37                   | A            |
| SO4--      | 0.75       | 0.14  | 7.67  | 152.1  | 99.9      | 0          | 37                   | A            |

GB0014R High Muffles United Kingdom

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.39       | 0.01  | 2.99  | 78.8   | 99.6      | 1          | 41                   | A            |
| Ca++       | 0.33       | 0.07  | 2.05  | 66.9   | 99.6      | 0          | 41                   | B            |
| Cl-        | 2.82       | 0.34  | 36.43 | 567.1  | 99.6      | 0          | 41                   | C            |
| Mg++       | 0.421      | 0.025 | 4.599 | 84.5   | 99.6      | 2          | 41                   | B            |
| NO3-       | 0.34       | 0.05  | 2.21  | 68.3   | 99.6      | 0          | 41                   | A            |
| pH         | 4.66       | 4.06  | 6.40  | 4405.8 | 99.6      | 0          | 41                   | A            |
| K+         | 0.14       | 0.03  | 1.23  | 28.4   | 99.6      | 3          | 41                   | A            |
| Precip     | -          | 0.0   | 28.9  | 200.8  | 100.0     | 39         | 91                   |              |
| Na+        | 2.37       | 0.10  | 20.98 | 475.8  | 99.6      | 0          | 41                   | A            |
| SO4-- corr | 0.48       | 0.12  | 4.55  | 97.3   | 99.6      | 0          | 41                   | A            |
| SO4--      | 0.68       | 0.15  | 4.69  | 137.3  | 99.6      | 0          | 41                   | A            |

GB0015R Strathvaich Dam United Kingdom

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.03       | 0.01  | 0.26   | 6.3    | 99.7      | 19         | 60                   | A            |
| Ca++       | 0.59       | 0.13  | 8.70   | 138.6  | 99.7      | 0          | 60                   | B            |
| Cl-        | 13.18      | 0.52  | 295.00 | 3099.0 | 99.7      | 0          | 60                   | C            |
| Mg++       | 1.961      | 0.139 | 51.978 | 461.2  | 99.7      | 0          | 60                   | B            |
| NO3-       | 0.04       | 0.01  | 0.74   | 9.4    | 99.7      | 15         | 60                   | A            |
| pH         | 5.33       | 4.77  | 6.58   | 1103.3 | 99.7      | 0          | 60                   | A            |
| K+         | 0.28       | 0.03  | 10.19  | 64.8   | 99.7      | 13         | 60                   | A            |
| Precip     | -          | 0.0   | 14.3   | 235.2  | 100.0     | 32         | 90                   |              |
| Na+        | 7.57       | 0.24  | 169.91 | 1781.0 | 99.7      | 0          | 60                   | A            |
| SO4-- corr | 0.06       | -0.25 | 0.47   | 14.3   | 99.7      | 6          | 60                   | A            |
| SO4--      | 0.69       | 0.02  | 13.97  | 162.4  | 99.7      | 3          | 60                   | A            |

GB0015R Strathvaich Dam United Kingdom

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.09       | 0.01  | 0.55  | 22.7   | 99.6      | 9          | 47                   | A            |
| Ca++       | 0.32       | 0.10  | 1.60  | 75.4   | 99.6      | 0          | 47                   | B            |
| Cl-        | 4.34       | 0.30  | 56.70 | 1032.2 | 99.2      | 0          | 46                   | C            |
| Mg++       | 0.540      | 0.025 | 6.514 | 128.5  | 99.6      | 4          | 47                   | B            |
| NO3-       | 0.13       | 0.01  | 0.86  | 29.9   | 99.6      | 10         | 47                   | A            |
| pH         | 4.95       | 4.21  | 5.78  | 2667.3 | 99.6      | 0          | 47                   | A            |
| K+         | 0.09       | 0.00  | 1.07  | 21.3   | 99.6      | 27         | 47                   | A            |
| Precip     | -          | 0.0   | 15.6  | 238.0  | 100.0     | 38         | 92                   |              |
| Na+        | 2.44       | 0.06  | 31.14 | 581.1  | 99.2      | 0          | 46                   | A            |
| SO4-- corr | 0.15       | -0.03 | 0.83  | 35.1   | 99.6      | 6          | 47                   | A            |
| SO4--      | 0.35       | 0.02  | 2.70  | 84.0   | 99.6      | 4          | 47                   | A            |

GB0015R Strathvaich Dam United Kingdom

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.13       | 0.01  | 1.42  | 20.1   | 99.6      | 7          | 39           | A          |              |
| Ca++       | 0.21       | 0.00  | 2.50  | 31.4   | 99.6      | 1          | 39           | B          |              |
| Cl-        | 1.26       | 0.05  | 39.30 | 188.8  | 85.3      | 2          | 37           | C          |              |
| Mg++       | 0.165      | 0.016 | 4.637 | 24.7   | 99.6      | 4          | 39           | B          |              |
| NO3-       | 0.17       | 0.01  | 4.32  | 25.8   | 99.6      | 1          | 39           | A          |              |
| pH         | 4.93       | 4.31  | 6.09  | 1761.8 | 99.6      | 0          | 39           | A          |              |
| K+         | 0.06       | 0.03  | 0.87  | 8.5    | 99.6      | 18         | 39           | A          |              |
| Precip     | -          | 0.0   | 10.9  | 150.0  | 100.0     | 50         | 92           |            |              |
| Na+        | 0.71       | 0.01  | 22.31 | 107.3  | 85.3      | 1          | 37           | A          |              |
| SO4-- corr | 0.19       | 0.01  | 4.23  | 28.9   | 99.6      | 1          | 39           | A          |              |
| SO4--      | 0.25       | 0.02  | 4.66  | 38.1   | 99.6      | 1          | 39           | A          |              |

GB0015R Strathvaich Dam United Kingdom

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.05       | 0.01  | 0.36  | 18.5   | 100.0     | 28         | 55           | A          |              |
| Ca++       | 0.27       | 0.00  | 1.90  | 104.3  | 100.0     | 5          | 55           | B          |              |
| Cl-        | 5.44       | 0.30  | 77.60 | 2092.7 | 95.9      | 0          | 54           | C          |              |
| Mg++       | 0.617      | 0.025 | 7.453 | 237.2  | 100.0     | 4          | 55           | B          |              |
| NO3-       | 0.12       | 0.01  | 1.44  | 48.2   | 100.0     | 18         | 55           | A          |              |
| pH         | 5.09       | 4.04  | 5.59  | 3156.8 | 100.0     | 0          | 55           | A          |              |
| K+         | 0.12       | 0.01  | 1.62  | 47.9   | 100.0     | 17         | 55           | A          |              |
| Precip     | -          | 0.0   | 32.0  | 384.5  | 100.0     | 35         | 91           |            |              |
| Na+        | 3.13       | 0.06  | 44.06 | 1205.1 | 95.9      | 0          | 54           | A          |              |
| SO4-- corr | 0.05       | -0.41 | 0.72  | 20.6   | 100.0     | 12         | 55           | A          |              |
| SO4--      | 0.27       | 0.01  | 3.77  | 104.9  | 100.0     | 7          | 55           | A          |              |

HU0002R K-Pusztá Hungary

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+         | -          | -218. | 46.   | -     | -         | 1          | 5            |            |              |
| NH4+       | 0.78       | 0.16  | 6.73  | 48.3  | 84.8      | 0          | 13           | B          |              |
| Ca++       | 1.25       | 0.86  | 3.21  | 77.7  | 84.8      | 0          | 13           | B          |              |
| Cl-        | 2.23       | 1.03  | 10.90 | 138.0 | 84.8      | 0          | 13           | B          |              |
| Mg++       | 0.369      | 0.200 | 1.460 | 22.8  | 84.8      | 0          | 13           | A          |              |
| NO3-       | 0.61       | 0.25  | 2.19  | 38.0  | 84.8      | 0          | 13           | A          |              |
| pH         | 5.58       | 5.13  | 7.24  | 162.7 | 84.8      | 0          | 13           | A          |              |
| K+         | 0.19       | 0.06  | 1.57  | 11.5  | 84.8      | 0          | 13           | D          |              |
| Precip     | -          | 0.0   | 12.9  | 52.5  | 97.8      | 75         | 88           |            |              |
| Precip off | -          | 0.0   | 21.2  | 114.8 | 100.0     | 75         | 90           |            |              |
| Na+        | 0.86       | 0.33  | 6.94  | 53.1  | 84.8      | 0          | 13           | B          |              |
| SO4-- corr | 0.98       | 0.48  | 4.07  | 60.5  | 84.8      | 0          | 13           | A          |              |
| SO4--      | 1.12       | 0.57  | 4.20  | 69.3  | 84.8      | 0          | 13           | A          |              |

HU0002R K-Pusztá Hungary

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.57       | 0.19  | 1.52  | 67.9  | 90.3      | 0          | 15           | B          |              |
| Ca++       | 0.91       | 0.18  | 3.12  | 108.9 | 90.3      | 0          | 15           | B          |              |
| Cl-        | 1.06       | 0.14  | 3.55  | 126.6 | 90.3      | 0          | 15           | B          |              |
| Mg++       | 0.218      | 0.025 | 0.650 | 26.1  | 90.3      | 1          | 15           | A          |              |
| NO3-       | 0.41       | 0.11  | 1.31  | 48.5  | 90.3      | 0          | 15           | A          |              |
| pH         | 5.77       | 5.24  | 7.16  | 204.7 | 90.3      | 0          | 15           | A          |              |
| K+         | 0.14       | 0.08  | 0.40  | 17.2  | 90.3      | 0          | 15           | D          |              |
| Precip     | -          | 0.0   | 17.3  | 87.7  | 96.7      | 74         | 89           |            |              |
| Precip off | -          | 0.0   | 22.0  | 119.6 | 100.0     | 74         | 92           |            |              |
| Na+        | 0.43       | 0.22  | 1.13  | 51.4  | 90.3      | 0          | 15           | B          |              |
| SO4-- corr | 0.97       | 0.37  | 3.01  | 116.5 | 90.3      | 0          | 15           | A          |              |
| SO4--      | 1.04       | 0.39  | 3.05  | 125.0 | 90.3      | 0          | 15           | A          |              |

HU0002R K-Pusztta Hungary

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.92       | 0.01  | 6.52  | 328.1 | 99.9      | 1          | 30 B                 |              |
| Ca++       | 0.81       | 0.14  | 1.81  | 286.7 | 95.9      | 0          | 29 B                 |              |
| Cl-        | 1.53       | 0.19  | 5.07  | 546.1 | 100.0     | 0          | 31 B                 |              |
| Mg++       | 0.233      | 0.070 | 0.520 | 83.0  | 95.9      | 0          | 29 A                 |              |
| NO3-       | 0.36       | 0.13  | 0.95  | 128.6 | 100.0     | 0          | 31 A                 |              |
| pH         | 5.71       | 4.62  | 7.69  | 693.2 | 99.9      | 0          | 30 A                 |              |
| K+         | 0.10       | 0.03  | 0.29  | 35.0  | 95.9      | 4          | 29 D                 |              |
| Precip     | -          | 0.0   | 35.1  | 299.9 | 100.0     | 61         | 92                   |              |
| Precip off | -          | 0.0   | 40.9  | 356.4 | 100.0     | 61         | 92                   |              |
| Na+        | 0.37       | 0.25  | 0.84  | 133.2 | 95.9      | 0          | 29 B                 |              |
| SO4-- corr | 0.90       | 0.46  | 3.12  | 322.6 | 100.0     | 0          | 31 A                 |              |
| SO4--      | 1.00       | 0.47  | 3.17  | 357.6 | 100.0     | 0          | 31 A                 |              |

HU0002R K-Pusztta Hungary

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.32       | 0.14  | 2.17  | 59.2   | 100.0     | 0          | 17 B                 |              |
| Ca++       | 0.78       | 0.36  | 4.40  | 145.4  | 73.7      | 0          | 15 B                 |              |
| Cl-        | 6.20       | 0.26  | 61.43 | 1154.6 | 100.0     | 0          | 17 B                 |              |
| Mg++       | 0.532      | 0.110 | 4.680 | 99.0   | 65.8      | 0          | 14 A                 |              |
| NO3-       | 0.31       | 0.17  | 0.71  | 57.5   | 100.0     | 0          | 17 A                 |              |
| pH         | 5.75       | 5.07  | 7.25  | 330.8  | 100.0     | 0          | 17 A                 |              |
| K+         | 0.28       | 0.11  | 0.72  | 52.3   | 73.7      | 0          | 15 D                 |              |
| Precip     | -          | 0.0   | 19.0  | 115.9  | 100.0     | 74         | 91                   |              |
| Precip off | -          | 0.0   | 30.0  | 186.1  | 100.0     | 74         | 91                   |              |
| Na+        | 0.71       | 0.27  | 1.85  | 133.1  | 73.7      | 0          | 15 B                 |              |
| SO4-- corr | 1.01       | 0.27  | 3.89  | 188.2  | 100.0     | 0          | 17 A                 |              |
| SO4--      | 1.09       | 0.30  | 3.97  | 203.2  | 100.0     | 0          | 17 A                 |              |

IE0002R Turlough Hill Ireland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.22       | 0.00  | 2.25  | 99.2   | 99.3      | 1          | 64 B                 |              |
| Ca++       | 0.16       | 0.00  | 1.10  | 71.2   | 99.3      | 7          | 64 B                 |              |
| Cl-        | 5.23       | 0.40  | 48.60 | 2343.8 | 99.3      | 0          | 64 B                 |              |
| Mg++       | 0.353      | 0.040 | 3.000 | 158.1  | 99.3      | 0          | 64 B                 |              |
| NO3-       | 0.08       | 0.00  | 2.55  | 35.6   | 99.3      | 8          | 64 A                 |              |
| pH         | 5.43       | 4.90  | 6.50  | 1649.4 | 100.0     | 0          | 64 A                 |              |
| K+         | 0.11       | 0.00  | 1.97  | 47.4   | 99.3      | 5          | 64 B                 |              |
| Precip     | -          | 0.0   | 23.6  | 448.1  | 100.0     | 37         | 90                   |              |
| Na+        | 2.87       | 0.20  | 25.25 | 1284.9 | 99.3      | 0          | 64 B                 |              |
| SO4-- corr | 0.21       | -0.03 | 2.26  | 94.8   | 99.2      | 2          | 63 A                 |              |
| SO4--      | 0.45       | 0.03  | 2.52  | 201.1  | 100.0     | 0          | 64 A                 |              |

IE0002R Turlough Hill Ireland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.10  | 3.32  | 138.5  | 100.0     | 0          | 49 B                 |              |
| Ca++       | 0.17       | 0.10  | 1.50  | 68.6   | 100.0     | 0          | 49 B                 |              |
| Cl-        | 2.22       | 0.10  | 24.50 | 881.2  | 100.0     | 0          | 49 B                 |              |
| Mg++       | 0.170      | 0.040 | 1.510 | 67.6   | 100.0     | 0          | 49 B                 |              |
| NO3-       | 0.18       | 0.03  | 3.02  | 70.9   | 100.0     | 0          | 49 A                 |              |
| pH         | 5.31       | 4.00  | 6.30  | 1937.2 | 100.0     | 0          | 49 A                 |              |
| K+         | 0.07       | 0.00  | 0.52  | 26.9   | 100.0     | 7          | 49 B                 |              |
| Precip     | -          | 0.1   | 33.1  | 397.7  | 100.0     | 43         | 92                   |              |
| Na+        | 1.35       | 0.07  | 12.82 | 534.9  | 100.0     | 0          | 49 B                 |              |
| SO4-- corr | 0.29       | 0.06  | 3.21  | 115.9  | 100.0     | 0          | 49 A                 |              |
| SO4--      | 0.40       | 0.10  | 4.26  | 160.2  | 100.0     | 0          | 49 A                 |              |

IE0002R Turlough Hill Ireland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.60       | 0.00  | 4.62  | 99.8   | 98.3      | 1          | 46           | B          |              |
| Ca++       | 0.23       | 0.00  | 1.20  | 38.4   | 98.3      | 1          | 46           | B          |              |
| Cl-        | 1.18       | 0.10  | 14.50 | 197.7  | 98.3      | 0          | 46           | B          |              |
| Mg++       | 0.106      | 0.000 | 0.950 | 17.8   | 98.3      | 1          | 46           | B          |              |
| NO3-       | 0.36       | 0.00  | 5.85  | 59.8   | 98.3      | 3          | 46           | A          |              |
| pH         | 4.97       | 4.20  | 6.40  | 1780.4 | 97.1      | 0          | 40           | A          |              |
| K+         | 0.14       | 0.00  | 1.73  | 22.6   | 98.3      | 4          | 46           | B          |              |
| Precip     | -          | 0.2   | 14.8  | 166.8  | 100.0     | 45         | 92           |            |              |
| Na+        | 0.75       | 0.03  | 9.71  | 125.2  | 98.3      | 0          | 46           | B          |              |
| SO4-- corr | 0.48       | -0.15 | 2.76  | 80.6   | 98.3      | 4          | 46           | A          |              |
| SO4--      | 0.55       | 0.00  | 3.30  | 90.9   | 98.3      | 4          | 46           | A          |              |

IE0002R Turlough Hill Ireland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.16       | 0.00  | 8.57  | 70.9   | 100.0     | 5          | 57           | B          |              |
| Ca++       | 0.10       | 0.00  | 4.30  | 45.2   | 100.0     | 8          | 57           | B          |              |
| Cl-        | 2.48       | 0.00  | 63.60 | 1124.4 | 100.0     | 1          | 57           | B          |              |
| Mg++       | 0.172      | 0.000 | 4.640 | 78.1   | 100.0     | 1          | 57           | B          |              |
| NO3-       | 0.15       | 0.00  | 10.94 | 67.6   | 100.0     | 2          | 57           | A          |              |
| pH         | 5.10       | 3.70  | 5.90  | 3590.8 | 99.6      | 0          | 52           | A          |              |
| K+         | 0.15       | 0.00  | 4.47  | 68.6   | 100.0     | 3          | 57           | B          |              |
| Precip     | -          | 0.2   | 49.7  | 453.0  | 100.0     | 34         | 91           |            |              |
| Na+        | 1.52       | 0.02  | 58.54 | 690.3  | 100.0     | 0          | 57           | B          |              |
| SO4-- corr | 0.20       | -0.02 | 3.93  | 91.8   | 100.0     | 3          | 57           | A          |              |
| SO4--      | 0.32       | 0.00  | 7.16  | 146.8  | 100.0     | 2          | 57           | A          |              |

IE0003R The Burren Ireland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.12       | 0.00  | 0.95   | 41.4   | 100.0     | 6          | 53           | B          |              |
| Ca++       | 0.45       | 0.00  | 4.70   | 154.7  | 100.0     | 1          | 53           | B          |              |
| Cl-        | 18.08      | 1.00  | 182.90 | 6187.7 | 100.0     | 0          | 53           | B          |              |
| Mg++       | 1.218      | 0.088 | 12.377 | 417.0  | 100.0     | 0          | 53           | B          |              |
| NO3-       | 0.06       | 0.01  | 0.72   | 19.4   | 100.0     | 0          | 53           | A          |              |
| pH         | 5.41       | 4.90  | 6.20   | 1326.5 | 100.0     | 0          | 53           | A          |              |
| K+         | 0.19       | 0.01  | 1.93   | 63.6   | 100.0     | 0          | 53           | B          |              |
| Precip     | -          | 0.0   | 22.9   | 342.3  | 100.0     | 50         | 90           |            |              |
| Na+        | 10.04      | 0.80  | 101.41 | 3435.4 | 100.0     | 0          | 53           | B          |              |
| SO4-- corr | 0.20       | -0.01 | 1.08   | 70.1   | 100.0     | 1          | 53           | A          |              |
| SO4--      | 1.04       | 0.15  | 9.21   | 354.5  | 100.0     | 0          | 53           | A          |              |

IE0003R The Burren Ireland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.35       | 0.00  | 2.24  | 63.6   | 100.0     | 1          | 44           | B          |              |
| Ca++       | 0.27       | 0.00  | 2.06  | 49.1   | 100.0     | 4          | 44           | B          |              |
| Cl-        | 6.73       | 0.50  | 98.40 | 1212.7 | 100.0     | 0          | 44           | B          |              |
| Mg++       | 0.469      | 0.047 | 6.062 | 84.6   | 100.0     | 0          | 44           | B          |              |
| NO3-       | 0.12       | 0.00  | 1.50  | 22.0   | 100.0     | 9          | 44           | A          |              |
| pH         | 5.31       | 4.10  | 6.50  | 874.2  | 99.8      | 0          | 43           | A          |              |
| K+         | 0.08       | 0.00  | 0.93  | 14.2   | 100.0     | 1          | 44           | B          |              |
| Precip     | -          | 0.3   | 15.4  | 180.3  | 100.0     | 48         | 92           |            |              |
| Na+        | 3.70       | 0.30  | 50.71 | 668.1  | 100.0     | 0          | 44           | B          |              |
| SO4-- corr | 0.34       | -0.32 | 2.57  | 60.8   | 100.0     | 2          | 44           | A          |              |
| SO4--      | 0.65       | 0.13  | 4.30  | 116.5  | 100.0     | 0          | 44           | A          |              |

## IE0003R The Burren Ireland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.28       | 0.00  | 2.28  | 59.4   | 100.0     | 2          | 42                   | B            |
| Ca++       | 0.20       | 0.01  | 3.80  | 42.4   | 100.0     | 0          | 42                   | B            |
| Cl-        | 3.31       | 0.20  | 50.80 | 693.2  | 100.0     | 0          | 42                   | B            |
| Mg++       | 0.234      | 0.019 | 3.336 | 49.0   | 100.0     | 0          | 42                   | B            |
| NO3-       | 0.17       | 0.01  | 0.81  | 35.8   | 100.0     | 0          | 42                   | A            |
| pH         | 4.94       | 4.40  | 6.30  | 2428.6 | 99.5      | 0          | 39                   | A            |
| K+         | 0.10       | 0.00  | 1.11  | 22.0   | 100.0     | 1          | 42                   | B            |
| Precip     | -          | 0.3   | 28.1  | 209.4  | 100.0     | 50         | 92                   |              |
| Na+        | 1.89       | 0.11  | 29.02 | 395.4  | 100.0     | 0          | 42                   | B            |
| SO4-- corr | 0.39       | -0.04 | 6.27  | 81.2   | 100.0     | 1          | 42                   | A            |
| SO4--      | 0.54       | 0.00  | 7.59  | 113.7  | 100.0     | 1          | 42                   | A            |

## IE0003R The Burren Ireland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.12       | 0.00  | 1.60   | 40.9   | 100.0     | 8          | 50                   | B            |
| Ca++       | 0.38       | 0.00  | 10.75  | 134.3  | 100.0     | 1          | 50                   | B            |
| Cl-        | 6.15       | 0.20  | 89.30  | 2148.2 | 100.0     | 0          | 50                   | B            |
| Mg++       | 0.583      | 0.000 | 6.227  | 203.7  | 100.0     | 1          | 50                   | B            |
| NO3-       | 0.10       | 0.00  | 1.47   | 33.6   | 100.0     | 1          | 50                   | A            |
| pH         | 5.36       | 4.50  | 6.70   | 1538.3 | 99.7      | 0          | 46                   | A            |
| K+         | 0.39       | 0.00  | 5.91   | 137.0  | 100.0     | 1          | 50                   | B            |
| Precip     | -          | 0.2   | 33.8   | 349.3  | 100.0     | 41         | 91                   |              |
| Na+        | 5.34       | 0.02  | 137.98 | 1864.5 | 100.0     | 0          | 50                   | B            |
| SO4-- corr | 0.10       | -1.49 | 4.53   | 36.1   | 100.0     | 5          | 50                   | A            |
| SO4--      | 0.50       | 0.02  | 6.60   | 175.6  | 100.0     | 0          | 50                   | A            |

## IS0002R Irafoss Iceland

December 1998 - February 1999

| Component  | W.<br>mean | Min  | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|------|-------|--------|-----------|------------|----------------------|--------------|
| pH         | 5.50       | 5.17 | 8.00  | 1300.4 | 100.0     | 0          | 38                   | A            |
| Precip     | -          | 0.0  | 60.5  | 407.8  | 100.0     | 52         | 90                   |              |
| Na+        | 6.38       | 0.30 | 34.80 | 2601.9 | 100.0     | 0          | 38                   | A            |
| SO4-- corr | 2.91       | 0.01 | 7.12  | 1186.9 | 100.0     | 0          | 38                   | A            |
| SO4--      | 3.33       | 0.03 | 8.00  | 1356.5 | 100.0     | 0          | 38                   | A            |

## IS0002R Irafoss Iceland

March 1999 - May 1999

| Component  | W.<br>mean | Min  | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|------|-------|--------|-----------|------------|----------------------|--------------|
| pH         | 6.15       | 5.70 | 7.50  | 225.6  | 100.0     | 0          | 29                   | A            |
| Precip     | -          | 0.0  | 54.9  | 319.1  | 100.0     | 63         | 92                   |              |
| Na+        | 2.15       | 0.20 | 49.50 | 686.5  | 100.0     | 0          | 29                   | A            |
| SO4-- corr | 6.11       | 1.66 | 7.18  | 1950.7 | 100.0     | 0          | 29                   | A            |
| SO4--      | 6.29       | 5.70 | 7.50  | 2008.2 | 100.0     | 0          | 29                   | A            |

## IS0002R Irafoss Iceland

June 1999 - August 1999

| Component  | W.<br>mean | Min  | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|------|-------|--------|-----------|------------|----------------------|--------------|
| pH         | 5.65       | 4.60 | 7.40  | 874.5  | 100.0     | 0          | 52                   | A            |
| Precip     | -          | 0.0  | 45.1  | 388.3  | 100.0     | 40         | 92                   |              |
| Na+        | 1.51       | 0.10 | 18.20 | 584.9  | 100.0     | 0          | 52                   | A            |
| SO4-- corr | 5.77       | 4.18 | 7.17  | 2240.2 | 100.0     | 0          | 52                   | A            |
| SO4--      | 5.89       | 4.60 | 7.40  | 2289.1 | 100.0     | 0          | 52                   | A            |

|                                |               |       |         |        |           |            |                 |      |              |
|--------------------------------|---------------|-------|---------|--------|-----------|------------|-----------------|------|--------------|
| IS0002R                        | Irafoss       |       | Iceland |        |           |            |                 |      |              |
| September 1999 - November 1999 |               |       |         |        |           |            |                 |      |              |
| Component                      | W.<br>mean    | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| pH                             | 5.61          | 5.00  | 7.30    | 1889.0 | 100.0     | 0          | 54              | A    |              |
| Precip                         | -             | 0.0   | 94.6    | 767.8  | 100.0     | 37         | 91              |      |              |
| Na+                            | 2.70          | 0.10  | 38.20   | 2072.3 | 100.0     | 0          | 54              | A    |              |
| SO4-- corr                     | 5.49          | 2.80  | 6.82    | 4214.1 | 100.0     | 0          | 54              | A    |              |
| SO4--                          | 5.71          | 5.00  | 7.30    | 4387.6 | 100.0     | 0          | 54              | A    |              |
|                                |               |       |         |        |           |            |                 |      |              |
| IT0001R                        | Montelibretti |       | Italy   |        |           |            |                 |      |              |
| December 1998 - February 1999  |               |       |         |        |           |            |                 |      |              |
| Component                      | W.<br>mean    | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| NH4+                           | 0.48          | 0.30  | 0.92    | 106.8  | 100.0     | 0          | 6               | A    |              |
| Ca++                           | 1.13          | 0.68  | 2.52    | 251.3  | 100.0     | 0          | 6               | A    |              |
| Cl-                            | 5.66          | 0.78  | 8.98    | 1256.8 | 100.0     | 0          | 6               | A    |              |
| Mg++                           | 0.470         | 0.140 | 0.690   | 104.5  | 100.0     | 0          | 6               | A    |              |
| NO3-                           | 0.49          | 0.29  | 0.89    | 109.4  | 100.0     | 0          | 6               | A    |              |
| pH                             | 5.20          | 4.90  | 6.46    | 1408.7 | 100.0     | 0          | 6               | B    |              |
| K+                             | 0.37          | 0.13  | 2.97    | 81.1   | 100.0     | 0          | 6               | A    |              |
| Precip                         | -             | 0.0   | 60.8    | 222.2  | 100.0     | 87         | 90              |      |              |
| Na+                            | 3.31          | 0.43  | 5.09    | 734.6  | 100.0     | 0          | 6               | A    |              |
| SO4-- corr                     | 0.29          | -0.02 | 0.74    | 64.4   | 100.0     | 1          | 6               | A    |              |
| SO4--                          | 0.57          | 0.33  | 0.83    | 127.3  | 100.0     | 0          | 6               | A    |              |
|                                |               |       |         |        |           |            |                 |      |              |
| IT0001R                        | Montelibretti |       | Italy   |        |           |            |                 |      |              |
| March 1999 - May 1999          |               |       |         |        |           |            |                 |      |              |
| Component                      | W.<br>mean    | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| NH4+                           | 0.89          | 0.12  | 2.62    | 335.4  | 100.0     | 0          | 9               | A    |              |
| Ca++                           | 3.06          | 1.03  | 5.17    | 1150.4 | 100.0     | 0          | 9               | A    |              |
| Cl-                            | 3.53          | 0.58  | 8.13    | 1326.2 | 100.0     | 0          | 9               | A    |              |
| Mg++                           | 0.415         | 0.180 | 0.660   | 156.1  | 100.0     | 0          | 9               | A    |              |
| NO3-                           | 0.77          | 0.36  | 1.11    | 290.5  | 100.0     | 0          | 9               | A    |              |
| pH                             | 6.07          | 5.54  | 6.92    | 320.0  | 64.6      | 0          | 7               | B    |              |
| K+                             | 0.62          | 0.11  | 1.18    | 233.0  | 100.0     | 0          | 9               | A    |              |
| Precip                         | -             | 0.0   | 121.0   | 376.0  | 100.0     | 83         | 92              |      |              |
| Na+                            | 2.37          | 0.46  | 4.85    | 890.3  | 100.0     | 0          | 9               | A    |              |
| SO4-- corr                     | 0.14          | -0.13 | 0.39    | 54.3   | 100.0     | 1          | 9               | A    |              |
| SO4--                          | 0.34          | 0.16  | 0.65    | 128.8  | 100.0     | 0          | 9               | A    |              |
|                                |               |       |         |        |           |            |                 |      |              |
| IT0001R                        | Montelibretti |       | Italy   |        |           |            |                 |      |              |
| June 1999 - August 1999        |               |       |         |        |           |            |                 |      |              |
| Component                      | W.<br>mean    | Min   | Max     | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl | flag | Samp<br>flag |
| NH4+                           | 0.76          | 0.42  | 1.57    | 33.3   | 100.0     | 0          | 3               | A    |              |
| Ca++                           | 4.01          | 1.39  | 4.70    | 175.1  | 100.0     | 0          | 3               | A    |              |
| Cl-                            | 5.08          | 3.12  | 16.20   | 221.4  | 100.0     | 0          | 3               | A    |              |
| Mg++                           | 0.367         | 0.130 | 0.406   | 16.0   | 100.0     | 0          | 3               | A    |              |
| NO3-                           | 0.87          | 0.41  | 1.01    | 38.0   | 100.0     | 0          | 3               | A    |              |
| pH                             | 6.41          | 5.77  | 6.74    | 17.1   | 86.2      | 0          | 2               | B    |              |
| K+                             | 0.87          | 0.20  | 1.62    | 38.0   | 100.0     | 0          | 3               | A    |              |
| Precip                         | -             | 0.0   | 32.4    | 43.6   | 100.0     | 89         | 92              |      |              |
| Na+                            | 2.84          | 1.90  | 8.14    | 123.8  | 100.0     | 0          | 3               | A    |              |
| SO4-- corr                     | 0.27          | 0.02  | 0.35    | 11.7   | 100.0     | 0          | 3               | A    |              |
| SO4--                          | 0.43          | 0.23  | 0.45    | 18.6   | 100.0     | 0          | 3               | A    |              |

IT0001R Montelibretti Italy

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.21       | 0.08  | 0.61  | 115.8  | 100.0     | 0          | 9 A                  |              |
| Ca++       | 1.12       | 0.35  | 4.62  | 633.6  | 100.0     | 0          | 9 A                  |              |
| Cl-        | 2.62       | 0.25  | 29.91 | 1473.9 | 100.0     | 0          | 9 A                  |              |
| Mg++       | 0.243      | 0.070 | 1.820 | 136.7  | 100.0     | 0          | 9 A                  |              |
| NO3-       | 0.25       | 0.04  | 0.51  | 138.3  | 100.0     | 0          | 9 A                  |              |
| pH         | 6.10       | 5.59  | 6.90  | 445.6  | 11.7      | 0          | 3 B                  |              |
| K+         | 0.15       | 0.08  | 0.69  | 84.1   | 100.0     | 0          | 9 A                  |              |
| Precip     | -          | 0.0   | 219.0 | 563.0  | 100.0     | 82         | 91                   |              |
| Na+        | 1.35       | 0.18  | 15.03 | 761.6  | 100.0     | 0          | 9 A                  |              |
| SO4-- corr | 0.00       | -0.77 | 0.13  | 2.5    | 100.0     | 3          | 9 A                  |              |
| SO4--      | 0.16       | 0.05  | 0.48  | 89.5   | 100.0     | 0          | 9 A                  |              |

IT0004R Ispra Italy

December 1998 - February 1999

| Component   | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|-------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+        | 0.37       | 0.08  | 1.47  | 50.6   | 100.0     | 0          | 7 A                  |              |
| bicarbonate | 11.74      | 4.00  | 45.60 | 1601.2 | 55.8      | 0          | 5                    |              |
| Ca++        | 0.16       | 0.10  | 0.65  | 21.4   | 100.0     | 0          | 7 B                  |              |
| Cl-         | 0.46       | 0.14  | 2.75  | 62.2   | 100.0     | 0          | 7 B                  |              |
| Mg++        | 0.040      | 0.010 | 0.235 | 5.4    | 100.0     | 0          | 7 A                  |              |
| NO3-        | 0.48       | 0.15  | 1.79  | 65.9   | 100.0     | 0          | 7 A                  |              |
| pH          | 4.88       | 4.07  | 5.91  | 1783.8 | 100.0     | 0          | 7 A                  |              |
| K+          | 0.05       | 0.01  | 0.21  | 7.0    | 100.0     | 0          | 7 A                  |              |
| Precip      | -          | 0.0   | 50.6  | 136.4  | 100.0     | 83         | 90                   |              |
| Na+         | 0.20       | 0.01  | 1.72  | 27.9   | 100.0     | 0          | 7 A                  |              |
| SO4-- corr  | 0.37       | 0.13  | 1.13  | 51.0   | 100.0     | 0          | 7 A                  |              |
| SO4--       | 0.40       | 0.18  | 1.17  | 54.5   | 100.0     | 0          | 7 A                  |              |

IT0004R Ispra Italy

March 1999 - May 1999

| Component   | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|-------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+        | 1.43       | 0.23  | 6.92  | 576.3   | 100.0     | 0          | 27 A                 |              |
| bicarbonate | 2.18       | 1.52  | 4.89  | 875.4   | 29.7      | 0          | 8                    |              |
| Ca++        | 0.96       | 0.07  | 31.04 | 384.7   | 100.0     | 0          | 27 B                 |              |
| Cl-         | 0.93       | 0.11  | 10.88 | 372.9   | 100.0     | 0          | 27 B                 |              |
| Mg++        | 0.135      | 0.018 | 1.148 | 54.2    | 100.0     | 0          | 27 A                 |              |
| NO3-        | 1.06       | 0.26  | 5.14  | 428.1   | 100.0     | 0          | 27 A                 |              |
| pH          | 4.32       | 2.92  | 7.29  | 19481.1 | 100.0     | 0          | 27 A                 |              |
| K+          | 0.11       | 0.02  | 1.48  | 45.3    | 100.0     | 0          | 27 A                 |              |
| Precip      | -          | 0.0   | 53.3  | 402.2   | 100.0     | 65         | 92                   |              |
| Na+         | 0.54       | 0.00  | 6.45  | 215.6   | 100.0     | 1          | 27 A                 |              |
| SO4-- corr  | 1.13       | 0.21  | 7.99  | 454.4   | 100.0     | 0          | 27 A                 |              |
| SO4--       | 1.18       | 0.23  | 8.53  | 474.4   | 100.0     | 0          | 27 A                 |              |

IT0004R Ispra Italy

June 1999 - August 1999

| Component   | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|-------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+        | 1.13       | 0.39  | 7.08  | 444.5  | 100.0     | 0          | 31 A                 |              |
| bicarbonate | 4.57       | 1.16  | 7.50  | 1796.3 | 24.2      | 0          | 11                   |              |
| Ca++        | 0.95       | 0.09  | 3.28  | 374.2  | 100.0     | 0          | 31 B                 |              |
| Cl-         | 0.26       | 0.00  | 1.14  | 104.1  | 100.0     | 1          | 31 B                 |              |
| Mg++        | 0.084      | 0.000 | 1.260 | 32.9   | 100.0     | 1          | 31 A                 |              |
| NO3-        | 0.73       | 0.23  | 2.98  | 288.9  | 100.0     | 0          | 31 A                 |              |
| pH          | 5.01       | 4.15  | 6.67  | 3860.1 | 100.0     | 0          | 31 A                 |              |
| K+          | 0.08       | 0.01  | 0.36  | 31.0   | 100.0     | 0          | 31 A                 |              |
| Precip      | -          | 0.0   | 83.1  | 393.4  | 100.0     | 61         | 92                   |              |
| Na+         | 0.20       | 0.01  | 0.90  | 78.1   | 100.0     | 0          | 31 A                 |              |
| SO4-- corr  | 0.82       | 0.38  | 3.10  | 322.7  | 100.0     | 0          | 31 A                 |              |
| SO4--       | 0.84       | 0.38  | 3.12  | 329.2  | 100.0     | 0          | 31 A                 |              |

| IT0004R                        |            | Ispira |       | Italy   |           |            |                      |              |  |
|--------------------------------|------------|--------|-------|---------|-----------|------------|----------------------|--------------|--|
| September 1999 - November 1999 |            |        |       |         |           |            |                      |              |  |
| Component                      | W.<br>mean | Min    | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                           | 2.78       | 0.00   | 10.47 | 1384.3  | 100.0     | 2          | 29                   | A            |  |
| bicarbonate                    | 0.00       | 0.00   | 0.08  | 2.5     | 37.8      | 9          | 14                   |              |  |
| Ca++                           | 0.39       | 0.00   | 6.31  | 193.3   | 100.0     | 4          | 29                   | B            |  |
| Cl-                            | 0.53       | 0.02   | 13.35 | 261.8   | 100.0     | 0          | 29                   | B            |  |
| Mg++                           | 0.083      | 0.000  | 1.572 | 41.6    | 100.0     | 9          | 29                   | A            |  |
| NO3-                           | 1.75       | 0.09   | 8.72  | 869.3   | 100.0     | 0          | 29                   | A            |  |
| pH                             | 4.64       | 4.06   | 6.40  | 11375.7 | 100.0     | 0          | 29                   | A            |  |
| K+                             | 0.08       | 0.00   | 1.74  | 39.6    | 100.0     | 3          | 29                   | A            |  |
| Precip                         | -          | 0.0    | 52.2  | 498.0   | 100.0     | 62         | 91                   |              |  |
| Na+                            | 0.32       | 0.00   | 10.82 | 159.5   | 100.0     | 7          | 29                   | A            |  |
| SO4-- corr                     | 2.02       | 0.14   | 8.81  | 1007.6  | 100.0     | 0          | 29                   | A            |  |
| SO4--                          | 2.06       | 0.14   | 8.96  | 1023.6  | 100.0     | 0          | 29                   | A            |  |

| LT0015R                       |            | Preila |       | Lithuania |           |            |                 |            |              |
|-------------------------------|------------|--------|-------|-----------|-----------|------------|-----------------|------------|--------------|
| December 1998 - February 1999 |            |        |       |           |           |            |                 |            |              |
| Component                     | W.<br>mean | Min    | Max   | Dep       | %<br>anal | Num<br>bel | Num QA<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.61       | 0.17   | 1.80  | 39.4      | 96.9      | 0          | 10              | A          | W            |
| Ca++                          | 0.45       | 0.18   | 1.15  | 28.7      | 96.9      | 0          | 10              | B          | W            |
| Cl-                           | 6.37       | 1.07   | 19.05 | 409.0     | 96.9      | 0          | 10              | A          | W            |
| NO3-                          | 1.09       | 0.39   | 2.33  | 69.9      | 96.9      | 0          | 10              | A          | W            |
| pH                            | 4.25       | 3.84   | 4.77  | 3591.7    | 96.9      | 0          | 10              | A          | W            |
| K+                            | 0.12       | 0.05   | 0.25  | 7.8       | 96.9      | 0          | 10              | A          | W            |
| Precip                        | -          | 0.0    | 12.5  | 64.2      | 101.1     | 2          | 13              |            | W            |
| Na+                           | 4.18       | 0.85   | 12.60 | 268.0     | 96.9      | 0          | 10              | A          | W            |
| SO4-- corr                    | 0.59       | 0.12   | 1.39  | 37.8      | 96.9      | 0          | 10              | A          | W            |
| SO4--                         | 0.94       | 0.47   | 1.69  | 60.3      | 96.9      | 0          | 10              | A          | W            |

| LT0015R               |            | Preila |      | Lithuania |           |            |                      |              |  |
|-----------------------|------------|--------|------|-----------|-----------|------------|----------------------|--------------|--|
| March 1999 - May 1999 |            |        |      |           |           |            |                      |              |  |
| Component             | W.<br>mean | Min    | Max  | Dep       | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                  | 0.89       | 0.67   | 1.80 | 85.1      | 100.0     | 0          | 11 A                 | W            |  |
| Ca++                  | 0.54       | 0.18   | 0.90 | 51.8      | 100.0     | 0          | 11 B                 | W            |  |
| Cl-                   | 1.07       | 0.50   | 2.76 | 102.0     | 100.0     | 0          | 11 A                 | W            |  |
| NO3-                  | 0.63       | 0.39   | 2.33 | 60.3      | 100.0     | 0          | 11 A                 | W            |  |
| pH                    | 4.66       | 3.84   | 5.44 | 2073.6    | 100.0     | 0          | 11 A                 | W            |  |
| K+                    | 0.12       | 0.05   | 0.29 | 11.3      | 100.0     | 0          | 11 A                 | W            |  |
| Precip                | -          | 0.0    | 35.1 | 95.2      | 98.9      | 2          | 13                   | W            |  |
| Na+                   | 0.73       | 0.34   | 1.80 | 69.1      | 100.0     | 0          | 11 A                 | W            |  |
| SO4-- corr            | 0.94       | 0.55   | 2.05 | 89.3      | 100.0     | 0          | 11 A                 | W            |  |
| SO4--                 | 1.00       | 0.62   | 2.12 | 95.1      | 100.0     | 0          | 11 A                 | W            |  |

| LT0015R                 |            | Preila |      | Lithuania |           |            |                 |            |              |
|-------------------------|------------|--------|------|-----------|-----------|------------|-----------------|------------|--------------|
| June 1999 - August 1999 |            |        |      |           |           |            |                 |            |              |
| Component               | W.<br>mean | Min    | Max  | Dep       | %<br>anal | Num<br>bel | Num QA<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.42       | 0.08   | 2.55 | 126.2     | 100.0     | 0          | 12              | A          | W            |
| Ca++                    | 0.35       | 0.10   | 1.40 | 106.3     | 100.0     | 0          | 12              | B          | W            |
| Cl-                     | 0.92       | 0.22   | 1.58 | 278.9     | 100.0     | 0          | 12              | A          | W            |
| NO3-                    | 0.30       | 0.13   | 1.89 | 91.5      | 100.0     | 0          | 12              | A          | W            |
| pH                      | 5.26       | 4.34   | 6.74 | 1652.2    | 100.0     | 0          | 12              | A          | W            |
| K+                      | 0.10       | 0.05   | 0.35 | 29.8      | 100.0     | 0          | 12              | A          | W            |
| Precip                  | -          | 0.0    | 86.2 | 303.3     | 98.9      | 1          | 13              |            | W            |
| Na+                     | 0.55       | 0.10   | 1.00 | 166.5     | 100.0     | 0          | 12              | A          | W            |
| SO4-- corr              | 0.42       | 0.21   | 1.94 | 128.1     | 100.0     | 0          | 12              | A          | W            |
| SO4--                   | 0.47       | 0.28   | 1.99 | 142.0     | 100.0     | 0          | 12              | A          | W            |

LT0015R Preila Lithuania

September 1999 - November 1999

| Component  | W.<br>mean | Min  | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.10 | 2.52  | 41.1  | 100.0     | 0          | 9 A                  | W            |
| Ca++       | 0.65       | 0.40 | 7.00  | 75.7  | 100.0     | 0          | 9 B                  | W            |
| Cl-        | 4.52       | 0.56 | 20.80 | 528.9 | 100.0     | 0          | 9 A                  | W            |
| NO3-       | 0.43       | 0.24 | 1.99  | 50.4  | 100.0     | 0          | 9 A                  | W            |
| pH         | 5.42       | 4.54 | 7.03  | 443.0 | 100.0     | 0          | 9 A                  | W            |
| K+         | 0.17       | 0.09 | 1.05  | 19.6  | 100.0     | 0          | 9 A                  | W            |
| Precip     | -          | 0.0  | 28.9  | 117.0 | 100.0     | 4          | 13                   | W            |
| Na+        | 2.81       | 0.40 | 13.60 | 329.2 | 100.0     | 0          | 9 A                  | W            |
| SO4-- corr | 0.45       | 0.17 | 2.64  | 53.0  | 100.0     | 0          | 9 A                  | W            |
| SO4--      | 0.69       | 0.59 | 3.64  | 80.6  | 100.0     | 0          | 9 A                  | W            |

LV0010R Rucava Latvia

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.38       | 0.03  | 3.14  | 77.6   | 96.1      | 0          | 34 A                 |              |
| Ca++       | 0.16       | 0.00  | 0.61  | 32.1   | 94.0      | 1          | 32 B                 |              |
| Cl-        | 0.90       | 0.10  | 3.90  | 182.6  | 96.0      | 2          | 34 B                 |              |
| Mg++       | 0.081      | 0.016 | 0.400 | 16.6   | 94.0      | 0          | 32 D                 |              |
| NO3-       | 0.43       | 0.08  | 1.80  | 87.4   | 96.8      | 0          | 36 A                 |              |
| pH         | 4.47       | 3.72  | 5.90  | 6816.2 | 100.0     | 0          | 39 A                 |              |
| K+         | 0.07       | 0.01  | 0.43  | 14.2   | 89.9      | 0          | 31 A                 |              |
| Precip     | -          | 0.0   | 18.1  | 203.7  | 100.0     | 51         | 90                   |              |
| Na+        | 0.46       | 0.04  | 1.96  | 92.6   | 94.4      | 0          | 33 A                 |              |
| SO4-- corr | 0.69       | 0.04  | 4.34  | 139.9  | 96.4      | 0          | 35 A                 |              |
| SO4--      | 0.73       | 0.13  | 4.40  | 149.2  | 96.8      | 0          | 36 A                 |              |

LV0010R Rucava Latvia

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.70       | 0.15  | 3.35  | 74.4   | 100.0     | 0          | 26 A                 |              |
| Ca++       | 0.30       | 0.01  | 0.86  | 31.8   | 100.0     | 1          | 26 B                 |              |
| Cl-        | 0.40       | 0.10  | 2.73  | 42.3   | 98.1      | 6          | 24 B                 |              |
| Mg++       | 0.071      | 0.023 | 0.264 | 7.5    | 100.0     | 0          | 26 D                 |              |
| NO3-       | 0.77       | 0.42  | 2.00  | 81.1   | 100.0     | 0          | 26 A                 |              |
| pH         | 4.25       | 3.96  | 5.20  | 5991.7 | 100.0     | 0          | 26 A                 |              |
| K+         | 0.12       | 0.02  | 2.20  | 12.2   | 100.0     | 0          | 26 A                 |              |
| Precip     | -          | 0.0   | 11.7  | 105.5  | 100.0     | 66         | 92                   |              |
| Na+        | 0.24       | 0.02  | 1.50  | 25.3   | 100.0     | 0          | 26 A                 |              |
| SO4-- corr | 0.83       | 0.29  | 3.13  | 87.4   | 100.0     | 0          | 26 A                 |              |
| SO4--      | 0.85       | 0.33  | 3.20  | 90.1   | 100.0     | 0          | 26 A                 |              |

LV0010R Rucava Latvia

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.28       | 0.01  | 1.95  | 86.6   | 100.0     | 4          | 33 A                 |              |
| Ca++       | 0.23       | 0.06  | 0.95  | 72.5   | 100.0     | 0          | 33 B                 |              |
| Cl-        | 0.56       | 0.10  | 2.29  | 173.7  | 99.8      | 0          | 32 B                 |              |
| Mg++       | 0.057      | 0.001 | 0.180 | 17.6   | 100.0     | 2          | 33 D                 |              |
| NO3-       | 0.38       | 0.12  | 1.90  | 118.5  | 100.0     | 0          | 33 A                 |              |
| pH         | 4.90       | 4.22  | 6.60  | 3914.4 | 100.0     | 0          | 33 A                 |              |
| K+         | 0.03       | 0.00  | 0.18  | 9.5    | 97.1      | 13         | 32 A                 |              |
| Precip     | -          | 0.0   | 36.3  | 308.6  | 100.0     | 59         | 92                   |              |
| Na+        | 0.19       | 0.02  | 1.00  | 57.7   | 100.0     | 0          | 33 A                 |              |
| SO4-- corr | 0.26       | 0.01  | 1.40  | 81.6   | 100.0     | 0          | 33 A                 |              |
| SO4--      | 0.29       | 0.03  | 1.40  | 88.6   | 100.0     | 0          | 33 A                 |              |

| LV0010R                        |            | Rucava |       | Latvia |           |            |                      |              |
|--------------------------------|------------|--------|-------|--------|-----------|------------|----------------------|--------------|
| September 1999 - November 1999 |            |        |       |        |           |            |                      |              |
| Component                      | W.<br>mean | Min    | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
| NH4+                           | 0.25       | 0.01   | 2.06  | 46.5   | 100.0     | 0          | 29                   | A            |
| Ca++                           | 0.09       | 0.02   | 0.42  | 16.6   | 99.8      | 0          | 28                   | B            |
| Cl-                            | 0.90       | 0.10   | 3.92  | 168.0  | 99.0      | 1          | 27                   | B            |
| Mg++                           | 0.071      | 0.001  | 0.334 | 13.2   | 99.0      | 1          | 27                   | D            |
| NO3-                           | 0.37       | 0.10   | 1.20  | 68.1   | 99.0      | 0          | 27                   | A            |
| pH                             | 4.67       | 4.19   | 5.50  | 3984.3 | 99.0      | 0          | 27                   | A            |
| K+                             | 0.04       | 0.01   | 0.60  | 7.8    | 99.8      | 1          | 28                   | A            |
| Precip                         | -          | 0.0    | 34.0  | 186.4  | 100.0     | 62         | 91                   |              |
| Na+                            | 0.42       | 0.05   | 1.68  | 77.6   | 100.0     | 0          | 29                   | A            |
| SO4-- corr                     | 0.28       | 0.05   | 0.84  | 52.7   | 99.0      | 0          | 27                   | A            |
| SO4--                          | 0.32       | 0.10   | 1.07  | 59.8   | 99.0      | 0          | 27                   | A            |

|                               |            |       |        |        |           |            |              |            |              |
|-------------------------------|------------|-------|--------|--------|-----------|------------|--------------|------------|--------------|
| LV0016R                       | Zoseni     |       | Latvia |        |           |            |              |            |              |
| December 1998 - February 1999 |            |       |        |        |           |            |              |            |              |
| Component                     | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.45       | 0.12  | 1.55   | 98.7   | 98.0      | 0          | 49           | A          |              |
| Ca++                          | 0.75       | 0.20  | 3.96   | 164.4  | 97.6      | 0          | 47           | B          |              |
| Cl-                           | 1.05       | 0.10  | 3.90   | 229.5  | 96.8      | 5          | 44           | B          |              |
| Mg++                          | 0.205      | 0.040 | 0.840  | 44.9   | 96.7      | 0          | 45           | D          |              |
| NO3-                          | 0.60       | 0.26  | 4.02   | 131.5  | 97.6      | 0          | 47           | A          |              |
| pH                            | 5.11       | 4.46  | 6.37   | 1702.8 | 99.3      | 0          | 55           | A          |              |
| K+                            | 0.16       | 0.00  | 0.96   | 35.9   | 96.7      | 1          | 45           | A          |              |
| Precip                        | -          | 0.0   | 19.1   | 219.3  | 100.0     | 29         | 90           |            |              |
| Na+                           | 0.48       | 0.04  | 1.57   | 104.5  | 97.6      | 0          | 47           | A          |              |
| SO4-- corr                    | 0.60       | 0.14  | 1.88   | 130.6  | 97.6      | 0          | 47           | A          |              |
| SO4--                         | 0.65       | 0.16  | 1.92   | 143.6  | 97.6      | 0          | 47           | A          |              |

| LV0016R               |            | Zoseni |       | Latvia |           |            |                      |              |  |
|-----------------------|------------|--------|-------|--------|-----------|------------|----------------------|--------------|--|
| March 1999 - May 1999 |            |        |       |        |           |            |                      |              |  |
| Component             | W.<br>mean | Min    | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                  | 0.64       | 0.05   | 2.52  | 53.5   | 98.5      | 0          | 27                   | A            |  |
| Ca++                  | 1.48       | 0.10   | 5.94  | 124.5  | 95.0      | 0          | 22                   | B            |  |
| Cl-                   | 0.62       | 0.10   | 1.83  | 51.9   | 88.7      | 1          | 17                   | B            |  |
| Mg++                  | 0.412      | 0.054  | 1.350 | 34.6   | 95.0      | 0          | 22                   | D            |  |
| NO3-                  | 1.06       | 0.30   | 2.79  | 89.2   | 96.3      | 0          | 23                   | A            |  |
| pH                    | 5.45       | 4.70   | 6.49  | 298.4  | 99.2      | 0          | 30                   | A            |  |
| K+                    | 0.44       | 0.07   | 2.28  | 36.7   | 95.0      | 0          | 22                   | A            |  |
| Precip                | -          | 0.0    | 13.0  | 84.0   | 100.0     | 58         | 92                   |              |  |
| Na+                   | 0.48       | 0.12   | 2.70  | 40.4   | 95.0      | 0          | 22                   | A            |  |
| SO4-- corr            | 0.82       | 0.22   | 2.12  | 68.7   | 95.0      | 0          | 22                   | A            |  |
| SO4--                 | 0.86       | 0.24   | 2.33  | 71.9   | 96.3      | 0          | 23                   | A            |  |

| LV0016R                 |            | Zoseni |       | Latvia |           |            |                      |              |  |
|-------------------------|------------|--------|-------|--------|-----------|------------|----------------------|--------------|--|
| June 1999 - August 1999 |            |        |       |        |           |            |                      |              |  |
| Component               | W.<br>mean | Min    | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| NH4+                    | 0.44       | 0.12   | 1.32  | 72.1   | 99.5      | 0          | 28                   | A            |  |
| Ca++                    | 0.68       | 0.04   | 6.40  | 112.1  | 92.1      | 0          | 27                   | B            |  |
| Cl-                     | 0.24       | 0.10   | 1.30  | 39.9   | 99.0      | 1          | 26                   | B            |  |
| Mg++                    | 0.303      | 0.035  | 2.020 | 49.8   | 92.1      | 0          | 27                   | D            |  |
| NO3-                    | 0.65       | 0.14   | 3.00  | 106.2  | 99.6      | 0          | 28                   | A            |  |
| pH                      | 5.86       | 5.29   | 6.84  | 228.8  | 99.8      | 0          | 29                   | A            |  |
| K+                      | 0.09       | 0.01   | 1.18  | 15.5   | 92.1      | 1          | 27                   | A            |  |
| Precip                  | -          | 0.0    | 29.7  | 164.2  | 100.0     | 62         | 92                   |              |  |
| Na+                     | 0.07       | 0.01   | 0.73  | 11.0   | 92.1      | 0          | 27                   | A            |  |
| SO4-- corr              | 0.38       | 0.12   | 1.39  | 63.3   | 98.6      | 0          | 27                   | A            |  |
| SO4--                   | 0.39       | 0.13   | 1.40  | 64.4   | 98.6      | 0          | 27                   | A            |  |

LV0016R Zoseni Latvia

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.35       | 0.01  | 1.84  | 78.1   | 99.5      | 1          | 46 A                 |              |
| Ca++       | 0.34       | 0.01  | 4.86  | 76.6   | 97.8      | 1          | 38 B                 |              |
| Cl-        | 0.22       | 0.10  | 3.15  | 49.7   | 92.1      | 7          | 28 B                 |              |
| Mg++       | 0.111      | 0.001 | 1.356 | 24.7   | 98.1      | 1          | 39 D                 |              |
| NO3-       | 0.56       | 0.10  | 2.80  | 124.7  | 98.1      | 0          | 39 A                 |              |
| pH         | 5.03       | 4.10  | 6.53  | 2051.0 | 99.7      | 0          | 47 A                 |              |
| K+         | 0.05       | 0.01  | 0.70  | 10.3   | 98.1      | 8          | 39 A                 |              |
| Precip     | -          | 0.0   | 21.0  | 221.6  | 100.0     | 42         | 91                   |              |
| Na+        | 0.11       | 0.01  | 1.70  | 23.6   | 93.5      | 1          | 37 A                 |              |
| SO4-- corr | 0.27       | 0.05  | 1.67  | 60.2   | 98.1      | 0          | 39 A                 |              |
| SO4--      | 0.29       | 0.07  | 1.67  | 63.4   | 98.5      | 0          | 40 A                 |              |

NL0009R Kollumerwaard Netherlands

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| H+         | 0.         | -228. | 52.   | 61.   | 94.7      | 23         | 39                   |              |
| NH4+       | 0.60       | 0.13  | 1.22  | 103.4 | 91.7      | 0          | 29 A                 |              |
| Ca++       | 0.27       | 0.10  | 1.30  | 47.5  | 90.6      | 0          | 27 A                 |              |
| Cl-        | 5.66       | 0.40  | 46.00 | 979.5 | 94.1      | 0          | 36 A                 |              |
| Mg++       | 0.334      | 0.041 | 2.035 | 57.8  | 89.5      | 1          | 26 A                 |              |
| NO3-       | 0.34       | 0.09  | 2.28  | 59.5  | 94.1      | 0          | 36 A                 |              |
| pH         | 5.32       | 4.35  | 7.05  | 826.0 | 94.7      | 0          | 39 A                 |              |
| K+         | 0.20       | 0.00  | 0.98  | 34.2  | 90.6      | 1          | 27 A                 |              |
| Precip     | -          | 0.0   | 22.0  | 173.2 | 100.0     | 47         | 90                   |              |
| Na+        | 3.02       | 0.29  | 25.83 | 523.5 | 90.6      | 0          | 27 A                 |              |
| SO4-- corr | 0.45       | 0.13  | 2.62  | 78.3  | 94.1      | 0          | 36 A                 |              |
| SO4--      | 0.72       | 0.28  | 3.23  | 124.8 | 94.1      | 0          | 36 A                 |              |

NL0009R Kollumerwaard Netherlands

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| H+         | -18.       | -662. | 40.   | -1986. | 92.9      | 26         | 35                   |              |
| NH4+       | 1.19       | 0.15  | 5.09  | 133.3  | 88.7      | 0          | 27 A                 |              |
| Ca++       | 0.34       | 0.10  | 1.30  | 38.5   | 83.2      | 0          | 21 A                 |              |
| Cl-        | 2.09       | 0.20  | 15.80 | 235.0  | 91.7      | 0          | 32 A                 |              |
| Mg++       | 0.168      | 0.000 | 1.147 | 18.9   | 83.2      | 1          | 21 A                 |              |
| NO3-       | 0.76       | 0.18  | 3.23  | 85.6   | 91.7      | 0          | 32 A                 |              |
| pH         | 5.24       | 4.50  | 8.11  | 641.7  | 92.9      | 0          | 35 A                 |              |
| K+         | 0.13       | 0.00  | 0.39  | 14.7   | 83.2      | 3          | 21 A                 |              |
| Precip     | -          | 0.0   | 10.9  | 112.4  | 100.0     | 49         | 92                   |              |
| Na+        | 1.23       | 0.11  | 9.61  | 138.7  | 83.2      | 0          | 21 A                 |              |
| SO4-- corr | 0.71       | 0.23  | 3.57  | 80.1   | 91.7      | 0          | 32 A                 |              |
| SO4--      | 0.82       | 0.25  | 3.79  | 91.9   | 91.7      | 0          | 32 A                 |              |

NL0009R Kollumerwaard Netherlands

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| H+         | -14.       | -539. | 26.   | -2493. | 97.3      | 25         | 30                   |              |
| NH4+       | 0.93       | 0.38  | 3.39  | 165.1  | 97.1      | 0          | 29 A                 |              |
| Ca++       | 0.18       | 0.00  | 0.70  | 31.6   | 94.9      | 1          | 25 A                 |              |
| Cl-        | 1.57       | 0.30  | 11.80 | 278.9  | 97.1      | 0          | 29 A                 |              |
| Mg++       | 0.105      | 0.000 | 0.763 | 18.6   | 94.9      | 3          | 25 A                 |              |
| NO3-       | 0.44       | 0.13  | 1.43  | 78.2   | 97.1      | 0          | 29 A                 |              |
| pH         | 5.57       | 4.78  | 7.33  | 478.5  | 97.3      | 0          | 30 A                 |              |
| K+         | 0.15       | 0.00  | 1.43  | 26.1   | 94.9      | 3          | 25 A                 |              |
| Precip     | -          | 0.0   | 22.0  | 177.4  | 100.0     | 51         | 92                   |              |
| Na+        | 0.93       | 0.17  | 6.98  | 165.3  | 94.9      | 0          | 25 A                 |              |
| SO4-- corr | 0.49       | 0.25  | 2.13  | 86.0   | 97.1      | 0          | 29 A                 |              |
| SO4--      | 0.56       | 0.28  | 2.20  | 100.2  | 97.1      | 0          | 29 A                 |              |

NL0009R Kollumerwaard Netherlands

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| H+         | 0.         | -62.  | 48.   | 50.   | 97.1      | 26         | 37           |            |              |
| NH4+       | 0.65       | 0.11  | 1.96  | 120.1 | 95.6      | 0          | 32           | A          |              |
| Ca++       | 0.22       | 0.10  | 0.80  | 41.0  | 95.1      | 0          | 31           | A          |              |
| Cl-        | 5.26       | 0.00  | 20.50 | 977.3 | 96.9      | 1          | 36           | A          |              |
| Mg++       | 0.373      | 0.000 | 1.376 | 69.4  | 95.1      | 3          | 31           | A          |              |
| NO3-       | 0.37       | 0.08  | 1.38  | 69.1  | 96.9      | 0          | 36           | A          |              |
| pH         | 5.30       | 4.39  | 6.79  | 923.7 | 97.1      | 0          | 37           | A          |              |
| K+         | 0.17       | 0.00  | 0.98  | 31.7  | 95.1      | 2          | 31           | A          |              |
| Precip     | -          | 0.0   | 22.2  | 185.9 | 100.0     | 43         | 91           |            |              |
| Na+        | 3.03       | 0.04  | 11.90 | 562.6 | 95.1      | 0          | 31           | A          |              |
| SO4-- corr | 0.43       | 0.12  | 1.24  | 79.8  | 96.9      | 0          | 36           | A          |              |
| SO4--      | 0.68       | 0.27  | 1.51  | 126.9 | 96.9      | 0          | 36           | A          |              |

NO0001R Birkenes Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.28       | 0.02  | 3.25  | 114.1  | 98.0      | 1          | 42           | A          |              |
| Ca++       | 0.10       | 0.00  | 0.40  | 39.5   | 78.9      | 3          | 35           | A          |              |
| Cl-        | 3.77       | 0.27  | 16.27 | 1542.9 | 98.0      | 0          | 42           | A          |              |
| Mg++       | 0.267      | 0.005 | 1.009 | 109.2  | 98.0      | 1          | 42           | A          |              |
| NO3-       | 0.39       | 0.04  | 2.90  | 158.8  | 98.0      | 0          | 42           | A          |              |
| pH         | 4.69       | 4.10  | 5.83  | 8372.9 | 80.3      | 0          | 43           | A          |              |
| K+         | 0.12       | 0.01  | 0.47  | 48.6   | 98.0      | 0          | 42           | B          |              |
| Precip     | -          | 0.0   | 35.7  | 409.5  | 100.0     | 25         | 90           |            |              |
| Na+        | 2.09       | 0.12  | 8.84  | 855.7  | 98.0      | 0          | 42           | A          |              |
| SO4-- corr | 0.37       | 0.03  | 5.20  | 152.5  | 98.0      | 0          | 42           | A          |              |
| SO4--      | 0.55       | 0.04  | 5.37  | 223.5  | 98.0      | 0          | 42           | A          |              |

NO0001R Birkenes Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.45       | 0.00  | 2.64  | 147.8  | 98.3      | 1          | 37           | A          |              |
| Ca++       | 0.07       | 0.00  | 0.44  | 24.3   | 98.3      | 4          | 37           | A          |              |
| Cl-        | 1.04       | 0.08  | 13.53 | 339.7  | 98.3      | 0          | 37           | A          |              |
| Mg++       | 0.069      | 0.005 | 0.838 | 22.6   | 98.3      | 2          | 37           | A          |              |
| NO3-       | 0.44       | 0.05  | 2.32  | 143.7  | 98.3      | 0          | 37           | A          |              |
| pH         | 4.57       | 3.81  | 5.61  | 8877.9 | 99.5      | 0          | 43           | A          |              |
| K+         | 0.06       | 0.00  | 0.54  | 20.5   | 98.3      | 1          | 37           | B          |              |
| Precip     | -          | 0.0   | 34.7  | 326.5  | 100.0     | 39         | 92           |            |              |
| Na+        | 0.62       | 0.06  | 8.21  | 203.7  | 98.3      | 0          | 37           | A          |              |
| SO4-- corr | 0.51       | 0.02  | 2.67  | 168.0  | 98.3      | 0          | 37           | A          |              |
| SO4--      | 0.56       | 0.03  | 2.75  | 184.6  | 98.3      | 0          | 37           | A          |              |

NO0001R Birkenes Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.34       | 0.00  | 1.40  | 148.3  | 99.3      | 4          | 35           | A          |              |
| Ca++       | 0.06       | 0.00  | 0.32  | 28.2   | 99.3      | 1          | 35           | A          |              |
| Cl-        | 0.79       | 0.00  | 3.26  | 349.2  | 99.3      | 1          | 35           | A          |              |
| Mg++       | 0.054      | 0.005 | 0.210 | 23.6   | 99.3      | 6          | 35           | A          |              |
| NO3-       | 0.37       | 0.00  | 1.35  | 161.9  | 99.3      | 2          | 35           | A          |              |
| pH         | 4.66       | 3.96  | 5.33  | 9742.0 | 99.6      | 0          | 37           | A          |              |
| K+         | 0.05       | 0.00  | 0.35  | 21.1   | 99.3      | 4          | 35           | B          |              |
| Precip     | -          | 0.0   | 53.5  | 440.4  | 100.0     | 43         | 92           |            |              |
| Na+        | 0.45       | 0.00  | 1.72  | 197.1  | 99.3      | 1          | 35           | A          |              |
| SO4-- corr | 0.43       | 0.00  | 1.61  | 187.1  | 99.3      | 1          | 35           | A          |              |
| SO4--      | 0.46       | 0.00  | 1.74  | 203.4  | 99.3      | 1          | 35           | A          |              |

NO0001R Birkenes Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.47       | 0.00  | 2.71  | 250.2   | 98.7      | 10         | 50                   | A            |
| Ca++       | 0.16       | 0.00  | 1.41  | 87.0    | 98.4      | 2          | 49                   | A            |
| Cl-        | 2.69       | 0.11  | 22.49 | 1429.4  | 98.7      | 0          | 50                   | A            |
| Mg++       | 0.167      | 0.005 | 1.255 | 88.8    | 98.4      | 5          | 49                   | A            |
| NO3-       | 0.58       | 0.00  | 4.01  | 306.8   | 98.7      | 3          | 50                   | A            |
| pH         | 4.48       | 3.79  | 6.14  | 17532.0 | 99.5      | 0          | 55                   | A            |
| K+         | 0.09       | 0.00  | 0.43  | 47.3    | 98.7      | 7          | 50                   | B            |
| Precip     | -          | 0.0   | 42.0  | 530.8   | 100.0     | 24         | 91                   |              |
| Na+        | 1.49       | 0.04  | 12.53 | 789.5   | 98.7      | 0          | 50                   | A            |
| SO4-- corr | 0.65       | 0.05  | 2.67  | 347.8   | 98.7      | 0          | 50                   | A            |
| SO4--      | 0.78       | 0.08  | 2.74  | 413.2   | 98.7      | 0          | 50                   | A            |

NO0008R Skreaadalen Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.21       | 0.07  | 1.99  | 178.7  | 98.8      | 0          | 59                   | A            |
| Ca++       | 0.15       | 0.00  | 0.81  | 125.1  | 97.7      | 2          | 58                   | A            |
| Cl-        | 4.81       | 0.26  | 34.67 | 4095.1 | 98.8      | 0          | 59                   | A            |
| Mg++       | 0.308      | 0.005 | 2.346 | 261.7  | 98.8      | 2          | 59                   | A            |
| NO3-       | 0.19       | 0.03  | 3.95  | 164.9  | 98.8      | 0          | 59                   | A            |
| pH         | 5.00       | 3.59  | 6.75  | 8541.2 | 98.0      | 0          | 61                   | A            |
| K+         | 0.18       | 0.00  | 0.75  | 151.1  | 98.8      | 0          | 59                   | B            |
| Precip     | -          | 0.0   | 59.0  | 850.6  | 100.0     | 22         | 90                   |              |
| Na+        | 2.56       | 0.14  | 20.05 | 2174.5 | 98.8      | 0          | 59                   | A            |
| SO4-- corr | 0.22       | 0.01  | 2.98  | 190.3  | 98.8      | 0          | 59                   | A            |
| SO4--      | 0.44       | 0.05  | 3.37  | 371.6  | 98.8      | 0          | 59                   | A            |

NO0008R Skreaadalen Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.40       | 0.13  | 1.79  | 121.7  | 96.4      | 0          | 40                   | A            |
| Ca++       | 0.14       | 0.02  | 0.41  | 42.3   | 96.9      | 0          | 41                   | A            |
| Cl-        | 1.68       | 0.22  | 7.57  | 518.0  | 97.9      | 0          | 42                   | A            |
| Mg++       | 0.095      | 0.005 | 0.461 | 29.4   | 97.9      | 2          | 42                   | A            |
| NO3-       | 0.35       | 0.04  | 1.81  | 108.3  | 97.9      | 0          | 42                   | A            |
| pH         | 4.87       | 4.09  | 6.70  | 4130.0 | 96.8      | 0          | 45                   | A            |
| K+         | 0.16       | 0.05  | 0.37  | 49.2   | 96.8      | 0          | 41                   | B            |
| Precip     | -          | 0.0   | 32.1  | 308.4  | 100.0     | 37         | 92                   |              |
| Na+        | 0.96       | 0.13  | 4.12  | 296.7  | 97.9      | 0          | 42                   | A            |
| SO4-- corr | 0.32       | 0.00  | 1.49  | 99.2   | 97.9      | 1          | 42                   | A            |
| SO4--      | 0.40       | 0.03  | 1.55  | 123.1  | 97.9      | 0          | 42                   | A            |

NO0008R Skreaadalen Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.31       | 0.06  | 1.59  | 136.1  | 98.3      | 0          | 35                   | A            |
| Ca++       | 0.08       | 0.03  | 0.53  | 33.2   | 98.6      | 0          | 36                   | A            |
| Cl-        | 0.48       | 0.12  | 3.59  | 209.9  | 98.6      | 0          | 36                   | A            |
| Mg++       | 0.028      | 0.005 | 0.237 | 12.1   | 98.6      | 5          | 36                   | A            |
| NO3-       | 0.26       | 0.03  | 0.94  | 113.7  | 98.6      | 0          | 36                   | A            |
| pH         | 4.91       | 4.14  | 6.27  | 5334.2 | 99.3      | 0          | 42                   | A            |
| K+         | 0.13       | 0.06  | 0.87  | 56.9   | 98.3      | 0          | 35                   | B            |
| Precip     | -          | 0.0   | 40.3  | 434.7  | 100.0     | 45         | 92                   |              |
| Na+        | 0.28       | 0.08  | 2.28  | 124.0  | 98.6      | 0          | 36                   | A            |
| SO4-- corr | 0.29       | 0.03  | 1.13  | 127.7  | 98.6      | 0          | 36                   | A            |
| SO4--      | 0.32       | 0.04  | 1.22  | 137.3  | 98.6      | 0          | 36                   | A            |

NO0008R Skreaadalen Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.25       | 0.00  | 2.21  | 182.1   | 99.6      | 1          | 52           | A          |              |
| Ca++       | 0.17       | 0.03  | 0.46  | 123.7   | 99.4      | 0          | 51           | A          |              |
| Cl-        | 5.17       | 0.33  | 22.21 | 3804.7  | 99.6      | 0          | 52           | A          |              |
| Mg++       | 0.300      | 0.005 | 1.214 | 220.3   | 99.6      | 1          | 52           | A          |              |
| NO3-       | 0.26       | 0.02  | 3.41  | 189.5   | 99.6      | 0          | 52           | A          |              |
| pH         | 4.86       | 3.71  | 6.00  | 10094.7 | 99.7      | 0          | 55           | A          |              |
| K+         | 0.20       | 0.05  | 0.71  | 147.7   | 99.6      | 0          | 52           | B          |              |
| Precip     | -          | 0.0   | 83.0  | 735.4   | 100.0     | 31         | 91           |            |              |
| Na+        | 2.90       | 0.17  | 12.35 | 2130.0  | 99.6      | 0          | 52           | A          |              |
| SO4-- corr | 0.29       | -0.07 | 1.84  | 212.5   | 99.6      | 2          | 52           | A          |              |
| SO4--      | 0.52       | 0.06  | 2.05  | 384.8   | 99.6      | 0          | 52           | A          |              |

NO0015R Tustervatn Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.17       | 0.07  | 0.65  | 50.0   | 83.6      | 0          | 33           | A          |              |
| Ca++       | 0.07       | 0.01  | 0.30  | 19.3   | 83.1      | 0          | 33           | A          |              |
| Cl-        | 1.86       | 0.09  | 13.13 | 547.5  | 83.8      | 0          | 34           | A          |              |
| Mg++       | 0.115      | 0.005 | 0.848 | 33.8   | 83.8      | 2          | 34           | A          |              |
| NO3-       | 0.05       | 0.00  | 0.53  | 15.7   | 83.8      | 0          | 34           | A          |              |
| pH         | 5.41       | 5.07  | 6.81  | 1159.4 | 84.2      | 0          | 36           | A          |              |
| K+         | 0.12       | 0.02  | 2.67  | 34.5   | 83.6      | 0          | 33           | B          |              |
| Precip     | -          | 0.0   | 48.5  | 254.7  | 88.9      | 24         | 80           |            |              |
| Na+        | 0.96       | 0.05  | 7.26  | 283.3  | 83.8      | 0          | 34           | A          |              |
| SO4-- corr | 0.05       | 0.01  | 0.28  | 13.2   | 83.8      | 0          | 34           | A          |              |
| SO4--      | 0.12       | 0.02  | 0.72  | 36.4   | 83.8      | 0          | 34           | A          |              |

NO0015R Tustervatn Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.20       | 0.05  | 0.93  | 43.6   | 90.2      | 0          | 29           | A          |              |
| Ca++       | 0.06       | 0.00  | 0.29  | 13.5   | 92.2      | 1          | 32           | A          |              |
| Cl-        | 0.44       | 0.05  | 6.59  | 97.0   | 92.2      | 0          | 32           | A          |              |
| Mg++       | 0.034      | 0.005 | 0.437 | 7.5    | 92.2      | 7          | 32           | A          |              |
| NO3-       | 0.10       | 0.01  | 0.75  | 23.0   | 92.2      | 0          | 32           | A          |              |
| pH         | 5.23       | 4.22  | 6.36  | 1298.2 | 93.3      | 0          | 39           | A          |              |
| K+         | 0.05       | 0.00  | 0.34  | 11.9   | 92.2      | 1          | 32           | B          |              |
| Precip     | -          | 0.0   | 24.9  | 215.1  | 98.9      | 35         | 91           |            |              |
| Na+        | 0.26       | 0.02  | 3.78  | 57.8   | 92.2      | 0          | 32           | A          |              |
| SO4-- corr | 0.13       | 0.01  | 1.07  | 28.8   | 92.2      | 0          | 32           | A          |              |
| SO4--      | 0.15       | 0.01  | 1.07  | 33.6   | 92.2      | 0          | 32           | A          |              |

NO0015R Tustervatn Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.25       | 0.05  | 1.18  | 60.0   | 93.6      | 0          | 40           | A          |              |
| Ca++       | 0.07       | 0.00  | 0.45  | 16.7   | 93.2      | 2          | 42           | A          |              |
| Cl-        | 0.39       | 0.05  | 3.35  | 93.3   | 96.7      | 0          | 44           | A          |              |
| Mg++       | 0.028      | 0.005 | 0.185 | 6.8    | 96.7      | 8          | 44           | A          |              |
| NO3-       | 0.10       | 0.00  | 0.97  | 24.3   | 95.9      | 1          | 43           | A          |              |
| pH         | 5.31       | 4.48  | 6.55  | 1183.1 | 92.5      | 0          | 46           | A          |              |
| K+         | 0.10       | 0.02  | 0.53  | 25.2   | 93.6      | 0          | 40           | B          |              |
| Precip     | -          | 0.0   | 36.0  | 240.2  | 100.0     | 29         | 92           |            |              |
| Na+        | 0.20       | 0.03  | 1.80  | 47.7   | 96.7      | 0          | 44           | A          |              |
| SO4-- corr | 0.12       | 0.02  | 0.83  | 30.1   | 96.7      | 0          | 44           | A          |              |
| SO4--      | 0.14       | 0.04  | 0.85  | 33.8   | 96.7      | 0          | 44           | A          |              |

NO0015R Tustervatn Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.12       | 0.00  | 0.73  | 52.4   | 91.3      | 1          | 43                   | A            |
| Ca++       | 0.09       | 0.02  | 0.56  | 36.3   | 91.3      | 0          | 43                   | A            |
| Cl-        | 1.97       | 0.05  | 14.71 | 843.0  | 91.3      | 0          | 43                   | A            |
| Mg++       | 0.119      | 0.005 | 0.822 | 50.9   | 91.3      | 5          | 43                   | A            |
| NO3-       | 0.06       | 0.00  | 0.44  | 26.3   | 91.3      | 2          | 43                   | A            |
| pH         | 5.42       | 4.33  | 6.61  | 1612.3 | 93.3      | 0          | 55                   | A            |
| K+         | 0.07       | 0.02  | 0.35  | 31.2   | 91.3      | 0          | 43                   | B            |
| Precip     | -          | 0.0   | 40.5  | 399.9  | 98.9      | 31         | 90                   |              |
| Na+        | 1.04       | 0.02  | 8.25  | 443.3  | 91.3      | 0          | 43                   | A            |
| SO4-- corr | 0.07       | -0.05 | 0.57  | 31.7   | 91.3      | 2          | 43                   | A            |
| SO4--      | 0.16       | 0.00  | 0.64  | 67.7   | 91.3      | 1          | 43                   | A            |

NO0039R Kaarvatn Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.08       | 0.00  | 0.30  | 30.6   | 99.5      | 1          | 36                   | A            |
| Ca++       | 0.11       | 0.00  | 0.95  | 44.4   | 98.7      | 3          | 35                   | A            |
| Cl-        | 4.28       | 0.05  | 40.35 | 1737.3 | 99.5      | 0          | 36                   | A            |
| Mg++       | 0.289      | 0.005 | 2.837 | 117.1  | 99.5      | 5          | 36                   | A            |
| NO3-       | 0.04       | 0.01  | 0.48  | 16.7   | 99.5      | 1          | 36                   | A            |
| pH         | 5.25       | 4.77  | 6.21  | 2297.5 | 99.1      | 0          | 38                   | A            |
| K+         | 0.17       | 0.00  | 7.75  | 70.8   | 99.5      | 5          | 36                   | B            |
| Precip     | -          | 0.0   | 35.3  | 405.4  | 100.0     | 49         | 90                   |              |
| Na+        | 2.37       | 0.03  | 23.99 | 962.4  | 99.5      | 0          | 36                   | A            |
| SO4-- corr | 0.06       | 0.01  | 0.19  | 22.8   | 99.5      | 0          | 36                   | A            |
| SO4--      | 0.25       | 0.02  | 2.15  | 102.3  | 99.5      | 0          | 36                   | A            |

NO0039R Kaarvatn Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.14       | 0.01  | 2.02  | 33.3   | 99.4      | 0          | 32                   | A            |
| Ca++       | 0.05       | 0.00  | 0.23  | 10.6   | 99.4      | 3          | 32                   | A            |
| Cl-        | 0.72       | 0.05  | 2.94  | 167.0  | 99.4      | 0          | 32                   | A            |
| Mg++       | 0.053      | 0.005 | 0.203 | 12.3   | 99.4      | 6          | 32                   | A            |
| NO3-       | 0.11       | 0.00  | 1.29  | 26.0   | 99.4      | 2          | 32                   | A            |
| pH         | 5.15       | 4.41  | 5.72  | 1634.8 | 100.0     | 0          | 35                   | A            |
| K+         | 0.04       | 0.00  | 0.12  | 8.9    | 99.4      | 2          | 32                   | B            |
| Precip     | -          | 0.0   | 19.7  | 231.8  | 100.0     | 57         | 92                   |              |
| Na+        | 0.43       | 0.04  | 1.69  | 99.5   | 99.4      | 0          | 32                   | A            |
| SO4-- corr | 0.12       | 0.01  | 1.50  | 28.0   | 99.4      | 0          | 32                   | A            |
| SO4--      | 0.16       | 0.02  | 1.52  | 36.3   | 99.4      | 0          | 32                   | A            |

NO0039R Kaarvatn Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.09       | 0.00  | 0.79  | 27.9   | 99.4      | 2          | 40                   | A            |
| Ca++       | 0.03       | 0.00  | 0.27  | 9.8    | 99.4      | 6          | 40                   | A            |
| Cl-        | 0.36       | 0.00  | 5.56  | 113.3  | 99.4      | 1          | 40                   | A            |
| Mg++       | 0.027      | 0.005 | 0.340 | 8.4    | 99.4      | 7          | 40                   | A            |
| NO3-       | 0.08       | 0.00  | 0.61  | 24.2   | 99.4      | 1          | 40                   | A            |
| pH         | 5.19       | 4.67  | 6.08  | 2018.5 | 99.8      | 0          | 42                   | A            |
| K+         | 0.05       | 0.00  | 0.51  | 14.3   | 99.4      | 2          | 40                   | B            |
| Precip     | -          | 0.0   | 55.6  | 313.2  | 100.0     | 49         | 92                   |              |
| Na+        | 0.21       | 0.02  | 2.83  | 64.7   | 99.4      | 0          | 40                   | A            |
| SO4-- corr | 0.10       | 0.03  | 0.42  | 29.9   | 99.4      | 0          | 40                   | A            |
| SO4--      | 0.11       | 0.03  | 0.48  | 35.3   | 99.4      | 0          | 40                   | A            |

NO0039R Kaarvatn Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.06       | 0.00  | 0.44  | 21.3   | 98.9      | 5          | 35           | A          |              |
| Ca++       | 0.09       | 0.00  | 0.52  | 30.0   | 98.9      | 3          | 35           | A          |              |
| Cl-        | 2.09       | 0.00  | 10.77 | 689.2  | 98.9      | 2          | 35           | A          |              |
| Mg++       | 0.134      | 0.005 | 0.663 | 44.4   | 98.9      | 6          | 35           | A          |              |
| NO3-       | 0.07       | 0.00  | 0.73  | 24.6   | 98.9      | 4          | 35           | A          |              |
| pH         | 5.21       | 4.38  | 6.54  | 2048.9 | 99.9      | 0          | 41           | A          |              |
| K+         | 0.05       | 0.00  | 0.21  | 17.4   | 98.9      | 5          | 35           | B          |              |
| Precip     | -          | 0.0   | 31.4  | 330.5  | 100.0     | 49         | 91           |            |              |
| Na+        | 1.13       | 0.02  | 5.72  | 373.9  | 98.9      | 0          | 35           | A          |              |
| SO4-- corr | 0.09       | 0.01  | 0.54  | 31.0   | 98.9      | 0          | 35           | A          |              |
| SO4--      | 0.19       | 0.01  | 0.55  | 61.6   | 98.9      | 0          | 35           | A          |              |

NO0041R Osen Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.14       | 0.04  | 2.10  | 17.5   | 95.2      | 0          | 21           | A          |              |
| Ca++       | 0.04       | 0.00  | 0.22  | 5.6    | 95.2      | 1          | 21           | A          |              |
| Cl-        | 0.44       | 0.07  | 1.83  | 56.5   | 97.2      | 0          | 23           | A          |              |
| Mg++       | 0.021      | 0.005 | 0.103 | 2.8    | 97.2      | 7          | 23           | A          |              |
| NO3-       | 0.23       | 0.09  | 2.58  | 30.1   | 95.2      | 0          | 21           | A          |              |
| pH         | 4.88       | 4.27  | 6.12  | 1730.3 | 100.0     | 0          | 25           | A          |              |
| K+         | 0.10       | 0.00  | 0.72  | 13.7   | 95.2      | 1          | 21           | B          |              |
| Precip     | -          | 0.0   | 21.0  | 129.9  | 100.0     | 65         | 90           |            |              |
| Na+        | 0.23       | 0.05  | 0.93  | 30.4   | 97.2      | 0          | 23           | A          |              |
| SO4-- corr | 0.17       | 0.02  | 4.37  | 22.1   | 97.2      | 0          | 23           | A          |              |
| SO4--      | 0.19       | 0.03  | 4.43  | 24.3   | 97.2      | 0          | 23           | A          |              |

NO0041R Osen Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.32       | 0.05  | 1.03  | 43.5   | 97.9      | 0          | 25           | A          |              |
| Ca++       | 0.14       | 0.02  | 0.48  | 18.5   | 97.9      | 0          | 25           | A          |              |
| Cl-        | 0.21       | 0.00  | 1.45  | 29.1   | 97.9      | 1          | 25           | A          |              |
| Mg++       | 0.024      | 0.005 | 0.138 | 3.2    | 97.9      | 10         | 25           | A          |              |
| NO3-       | 0.42       | 0.08  | 1.37  | 56.8   | 97.9      | 0          | 25           | A          |              |
| pH         | 4.67       | 4.21  | 5.93  | 2871.8 | 98.3      | 0          | 26           | A          |              |
| K+         | 0.07       | 0.02  | 0.25  | 9.8    | 97.9      | 0          | 25           | B          |              |
| Precip     | -          | 0.0   | 12.6  | 135.6  | 100.0     | 64         | 92           |            |              |
| Na+        | 0.13       | 0.02  | 0.98  | 17.7   | 97.9      | 0          | 25           | A          |              |
| SO4-- corr | 0.38       | 0.04  | 1.01  | 50.9   | 97.9      | 0          | 25           | A          |              |
| SO4--      | 0.39       | 0.04  | 1.02  | 52.5   | 97.9      | 0          | 25           | A          |              |

NO0041R Osen Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.23       | 0.01  | 0.56  | 52.0   | 87.0      | 0          | 23           | A          |              |
| Ca++       | 0.07       | 0.00  | 0.38  | 16.4   | 99.7      | 1          | 27           | A          |              |
| Cl-        | 0.19       | 0.04  | 1.63  | 42.7   | 99.7      | 0          | 27           | A          |              |
| Mg++       | 0.018      | 0.005 | 0.080 | 4.0    | 99.7      | 8          | 27           | A          |              |
| NO3-       | 0.19       | 0.03  | 0.59  | 43.5   | 99.7      | 0          | 27           | A          |              |
| pH         | 4.86       | 4.37  | 6.25  | 3123.6 | 87.3      | 0          | 24           | A          |              |
| K+         | 0.11       | 0.03  | 0.78  | 25.0   | 85.6      | 0          | 23           | B          |              |
| Precip     | -          | 0.0   | 28.8  | 228.5  | 100.0     | 64         | 92           |            |              |
| Na+        | 0.11       | 0.02  | 0.84  | 25.0   | 99.7      | 0          | 27           | A          |              |
| SO4-- corr | 0.28       | 0.03  | 0.88  | 64.7   | 99.7      | 0          | 27           | A          |              |
| SO4--      | 0.29       | 0.03  | 0.89  | 66.9   | 99.7      | 0          | 27           | A          |              |

NO0041R Osen Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.19       | 0.02  | 0.64  | 37.8   | 96.4      | 0          | 27                   | A            |
| Ca++       | 0.10       | 0.00  | 0.30  | 18.7   | 96.4      | 1          | 27                   | A            |
| Cl-        | 0.36       | 0.00  | 1.86  | 70.8   | 96.4      | 1          | 27                   | A            |
| Mg++       | 0.025      | 0.005 | 0.129 | 4.9    | 96.4      | 11         | 27                   | A            |
| NO3-       | 0.21       | 0.04  | 0.65  | 40.5   | 96.4      | 0          | 27                   | A            |
| pH         | 4.91       | 4.37  | 6.49  | 2386.6 | 98.2      | 0          | 30                   | A            |
| K+         | 0.11       | 0.01  | 0.58  | 20.8   | 96.4      | 0          | 27                   | B            |
| Precip     | -          | 0.0   | 22.6  | 194.6  | 100.0     | 59         | 91                   |              |
| Na+        | 0.19       | 0.02  | 1.08  | 37.9   | 96.4      | 0          | 27                   | A            |
| SO4-- corr | 0.26       | 0.03  | 1.04  | 51.0   | 96.4      | 0          | 27                   | A            |
| SO4--      | 0.28       | 0.03  | 1.08  | 54.0   | 96.4      | 0          | 27                   | A            |

NO0055R Karasjok Norway

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.14       | 0.03  | 0.34  | 8.1   | 77.0      | 0          | 20                   | A            |
| Ca++       | 0.07       | 0.03  | 0.23  | 4.2   | 65.0      | 1          | 19                   | A            |
| Cl-        | 0.77       | 0.22  | 3.21  | 46.3  | 77.0      | 0          | 20                   | A            |
| Mg++       | 0.039      | 0.010 | 0.148 | 2.3   | 77.0      | 0          | 20                   | A            |
| NO3-       | 0.20       | 0.07  | 0.47  | 12.2  | 77.0      | 0          | 20                   | A            |
| pH         | 5.08       | 4.38  | 6.97  | 502.0 | 83.8      | 0          | 35                   | A            |
| K+         | 0.20       | 0.06  | 0.87  | 11.9  | 77.0      | 0          | 20                   | B            |
| Precip     | -          | 0.0   | 7.2   | 60.0  | 100.0     | 43         | 90                   |              |
| Na+        | 0.44       | 0.12  | 1.98  | 26.3  | 77.0      | 0          | 20                   | A            |
| SO4-- corr | 0.14       | 0.02  | 0.67  | 8.2   | 77.0      | 0          | 20                   | A            |
| SO4--      | 0.17       | 0.03  | 0.73  | 10.3  | 77.0      | 0          | 20                   | A            |

NO0055R Karasjok Norway

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.28       | 0.06  | 0.73  | 11.9  | 83.4      | 0          | 12                   | A            |
| Ca++       | 0.12       | 0.00  | 0.56  | 5.1   | 83.4      | 1          | 12                   | A            |
| Cl-        | 0.55       | 0.11  | 2.24  | 23.3  | 83.4      | 0          | 12                   | A            |
| Mg++       | 0.050      | 0.005 | 0.253 | 2.2   | 83.4      | 1          | 12                   | A            |
| NO3-       | 0.23       | 0.13  | 0.42  | 10.0  | 83.4      | 0          | 12                   | A            |
| pH         | 4.83       | 4.31  | 5.63  | 626.6 | 96.0      | 0          | 21                   | A            |
| K+         | 0.16       | 0.03  | 0.24  | 6.8   | 83.4      | 0          | 12                   | B            |
| Precip     | -          | 0.0   | 6.4   | 42.7  | 100.0     | 63         | 92                   |              |
| Na+        | 0.41       | 0.07  | 1.57  | 17.3  | 83.4      | 0          | 12                   | A            |
| SO4-- corr | 0.44       | 0.08  | 1.12  | 18.9  | 83.4      | 0          | 12                   | A            |
| SO4--      | 0.48       | 0.09  | 1.25  | 20.4  | 83.4      | 0          | 12                   | A            |

NO0055R Karasjok Norway

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.10       | 0.00  | 0.41  | 22.8   | 92.6      | 1          | 30                   | A            |
| Ca++       | 0.05       | 0.00  | 0.15  | 10.3   | 97.1      | 1          | 31                   | A            |
| Cl-        | 0.18       | 0.00  | 0.78  | 39.5   | 97.1      | 1          | 31                   | A            |
| Mg++       | 0.016      | 0.005 | 0.051 | 3.5    | 97.1      | 9          | 31                   | A            |
| NO3-       | 0.08       | 0.00  | 0.36  | 17.1   | 97.1      | 1          | 31                   | A            |
| pH         | 5.02       | 4.33  | 5.91  | 2136.1 | 94.6      | 0          | 38                   | A            |
| K+         | 0.10       | 0.02  | 0.41  | 21.5   | 97.1      | 0          | 31                   | B            |
| Precip     | -          | 0.0   | 29.3  | 223.4  | 100.0     | 46         | 92                   |              |
| Na+        | 0.12       | 0.02  | 0.44  | 26.1   | 97.1      | 0          | 31                   | A            |
| SO4-- corr | 0.19       | 0.00  | 1.08  | 41.9   | 97.1      | 1          | 31                   | A            |
| SO4--      | 0.20       | 0.00  | 1.10  | 43.9   | 97.1      | 1          | 31                   | A            |

NO0055R Karasjok Norway

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.16       | 0.04  | 0.61  | 13.4  | 93.3      | 0          | 21           | A          |              |
| Ca++       | 0.07       | 0.03  | 0.25  | 6.2   | 89.6      | 0          | 19           | A          |              |
| Cl-        | 0.49       | 0.13  | 3.51  | 41.6  | 93.3      | 0          | 21           | A          |              |
| Mg++       | 0.023      | 0.005 | 0.153 | 1.9   | 93.3      | 3          | 21           | A          |              |
| NO3-       | 0.11       | 0.02  | 0.47  | 9.0   | 92.1      | 0          | 20           | A          |              |
| pH         | 5.37       | 4.68  | 6.93  | 362.2 | 94.3      | 0          | 25           | A          |              |
| K+         | 0.16       | 0.03  | 0.61  | 13.8  | 92.1      | 0          | 20           | B          |              |
| Precip     | -          | 0.0   | 11.6  | 84.5  | 100.0     | 54         | 91           |            |              |
| Na+        | 0.31       | 0.08  | 2.43  | 26.1  | 93.3      | 0          | 21           | A          |              |
| SO4-- corr | 0.16       | 0.04  | 0.74  | 13.7  | 93.3      | 0          | 21           | A          |              |
| SO4--      | 0.19       | 0.04  | 0.84  | 15.8  | 93.3      | 0          | 21           | A          |              |

PL0002R Jarczew Poland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 1.02       | 0.19  | 5.47  | 64.5   | 96.7      | 0          | 47           | A          |              |
| Ca++       | 0.35       | 0.15  | 3.12  | 22.5   | 93.2      | 0          | 44           | B          |              |
| Cl-        | 1.35       | 0.20  | 10.18 | 85.7   | 96.7      | 0          | 47           | A          |              |
| Mg++       | 0.062      | 0.020 | 0.400 | 3.9    | 93.2      | 0          | 44           | A          |              |
| NO3-       | 0.85       | 0.22  | 3.51  | 53.8   | 96.7      | 0          | 47           | A          |              |
| pH         | 4.49       | 3.72  | 5.47  | 2064.2 | 96.7      | 0          | 47           | A          |              |
| K+         | 0.12       | 0.01  | 0.73  | 7.6    | 93.2      | 0          | 44           | A          |              |
| Precip     | -          | 0.0   | 5.5   | 63.4   | 87.8      | 23         | 79           |            |              |
| Na+        | 0.45       | 0.03  | 5.10  | 28.4   | 93.2      | 0          | 44           | A          |              |
| SO4-- corr | 1.09       | 0.31  | 4.55  | 69.3   | 96.7      | 0          | 47           | A          |              |
| SO4--      | 1.13       | 0.36  | 4.68  | 71.6   | 96.7      | 0          | 47           | A          |              |

PL0002R Jarczew Poland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.86       | 0.11  | 11.12 | 129.9  | 98.9      | 0          | 31           | A          |              |
| Ca++       | 0.39       | 0.07  | 5.69  | 58.3   | 99.1      | 0          | 32           | B          |              |
| Cl-        | 0.34       | 0.09  | 7.44  | 51.7   | 98.5      | 0          | 30           | A          |              |
| Mg++       | 0.040      | 0.010 | 0.450 | 6.1    | 99.1      | 0          | 32           | A          |              |
| NO3-       | 0.48       | 0.08  | 4.91  | 71.8   | 99.1      | 0          | 32           | A          |              |
| pH         | 4.81       | 4.13  | 7.43  | 2342.2 | 98.9      | 0          | 31           | A          |              |
| K+         | 0.10       | 0.01  | 3.16  | 15.2   | 98.5      | 0          | 30           | A          |              |
| Precip     | -          | 0.0   | 37.1  | 150.5  | 100.0     | 50         | 92           |            |              |
| Na+        | 0.10       | 0.02  | 3.24  | 15.5   | 99.1      | 0          | 32           | A          |              |
| SO4-- corr | 0.81       | 0.11  | 9.80  | 122.0  | 99.1      | 0          | 32           | A          |              |
| SO4--      | 0.83       | 0.12  | 10.07 | 124.9  | 99.1      | 0          | 32           | A          |              |

PL0002R Jarczew Poland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.67       | 0.12  | 2.84  | 214.6  | 99.8      | 0          | 40           | A          |              |
| Ca++       | 0.22       | 0.04  | 0.87  | 69.7   | 99.7      | 0          | 39           | B          |              |
| Cl-        | 0.19       | 0.08  | 1.61  | 60.1   | 99.8      | 0          | 40           | A          |              |
| Mg++       | 0.028      | 0.010 | 0.140 | 9.1    | 99.7      | 0          | 39           | A          |              |
| NO3-       | 0.35       | 0.13  | 1.84  | 113.8  | 99.8      | 0          | 40           | A          |              |
| pH         | 4.81       | 3.99  | 7.60  | 4956.6 | 99.8      | 0          | 40           | A          |              |
| K+         | 0.09       | 0.02  | 0.53  | 28.3   | 99.7      | 0          | 39           | A          |              |
| Precip     | -          | 0.0   | 41.4  | 322.8  | 100.0     | 48         | 92           |            |              |
| Na+        | 0.06       | 0.02  | 0.57  | 18.4   | 99.7      | 0          | 39           | A          |              |
| SO4-- corr | 0.70       | 0.09  | 3.16  | 225.8  | 99.8      | 0          | 40           | A          |              |
| SO4--      | 0.71       | 0.10  | 3.18  | 230.2  | 99.8      | 0          | 40           | A          |              |

PL0002R Jarczew Poland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.38       | 0.07  | 3.28  | 45.3   | 95.7      | 0          | 26                   | A            |
| Ca++       | 0.17       | 0.05  | 1.18  | 19.9   | 95.7      | 0          | 26                   | B            |
| Cl-        | 0.38       | 0.10  | 4.61  | 45.2   | 95.9      | 0          | 27                   | A            |
| Mg++       | 0.029      | 0.010 | 0.240 | 3.4    | 95.7      | 0          | 26                   | A            |
| NO3-       | 0.38       | 0.11  | 7.36  | 45.2   | 95.9      | 0          | 27                   | A            |
| pH         | 4.56       | 3.31  | 6.46  | 3279.1 | 96.0      | 0          | 28                   | A            |
| K+         | 0.07       | 0.02  | 1.06  | 8.2    | 95.7      | 0          | 26                   | A            |
| Precip     | -          | 0.0   | 19.5  | 119.6  | 100.0     | 52         | 91                   |              |
| Na+        | 0.12       | 0.02  | 3.12  | 14.3   | 95.7      | 0          | 26                   | A            |
| SO4-- corr | 0.56       | 0.13  | 5.35  | 66.5   | 95.9      | 0          | 27                   | A            |
| SO4--      | 0.57       | 0.14  | 5.51  | 68.6   | 95.9      | 0          | 27                   | A            |

PL0003R Sniezka Poland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.57       | 0.04  | 3.07  | 158.7   | 99.6      | 0          | 64                   | A            |
| Ca++       | 0.37       | 0.09  | 1.27  | 100.9   | 97.8      | 0          | 62                   | B            |
| Cl-        | 1.46       | 0.25  | 3.10  | 402.4   | 99.6      | 0          | 64                   | A            |
| Mg++       | 0.120      | 0.030 | 0.400 | 33.0    | 97.8      | 0          | 62                   | A            |
| NO3-       | 0.76       | 0.15  | 2.16  | 209.2   | 99.6      | 0          | 64                   | A            |
| pH         | 4.31       | 3.75  | 5.44  | 13405.8 | 99.6      | 0          | 64                   | A            |
| K+         | 0.18       | 0.03  | 0.65  | 49.2    | 97.8      | 0          | 62                   | A            |
| Precip     | -          | 0.0   | 16.4  | 275.8   | 92.2      | 14         | 83                   |              |
| Na+        | 0.39       | 0.10  | 1.48  | 106.7   | 97.8      | 0          | 62                   | A            |
| SO4-- corr | 0.92       | 0.08  | 3.06  | 252.5   | 99.6      | 0          | 64                   | A            |
| SO4--      | 0.98       | 0.12  | 3.18  | 269.6   | 99.6      | 0          | 64                   | A            |

PL0003R Sniezka Poland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 1.03       | 0.21  | 5.55  | 173.4  | 99.2      | 0          | 51                   | A            |
| Ca++       | 0.74       | 0.10  | 4.95  | 124.7  | 95.0      | 0          | 46                   | B            |
| Cl-        | 1.94       | 0.56  | 5.88  | 325.7  | 99.2      | 0          | 51                   | A            |
| Mg++       | 0.159      | 0.040 | 0.530 | 26.6   | 95.0      | 0          | 46                   | A            |
| NO3-       | 1.31       | 0.33  | 5.44  | 219.1  | 99.2      | 0          | 51                   | A            |
| pH         | 4.23       | 3.54  | 5.96  | 9940.1 | 99.2      | 0          | 51                   | A            |
| K+         | 0.26       | 0.08  | 1.12  | 43.6   | 95.0      | 0          | 46                   | A            |
| Precip     | -          | 0.0   | 18.9  | 167.7  | 100.0     | 37         | 92                   |              |
| Na+        | 0.62       | 0.15  | 3.89  | 103.1  | 95.0      | 0          | 46                   | A            |
| SO4-- corr | 1.12       | 0.30  | 4.96  | 187.8  | 99.2      | 0          | 51                   | A            |
| SO4--      | 1.21       | 0.32  | 5.29  | 202.4  | 99.2      | 0          | 51                   | A            |

PL0003R Sniezka Poland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.63       | 0.07  | 5.99  | 181.6  | 99.8      | 0          | 49                   | A            |
| Ca++       | 0.71       | 0.04  | 5.90  | 207.5  | 93.5      | 0          | 48                   | B            |
| Cl-        | 1.32       | 0.28  | 7.80  | 383.3  | 99.8      | 0          | 49                   | A            |
| Mg++       | 0.130      | 0.030 | 0.770 | 37.8   | 93.5      | 0          | 48                   | A            |
| NO3-       | 0.72       | 0.07  | 6.09  | 208.6  | 99.8      | 0          | 49                   | A            |
| pH         | 4.77       | 3.69  | 6.67  | 4926.0 | 99.8      | 0          | 49                   | A            |
| K+         | 0.16       | 0.07  | 2.18  | 45.4   | 93.5      | 0          | 48                   | A            |
| Precip     | -          | 0.0   | 39.9  | 290.1  | 100.0     | 39         | 92                   |              |
| Na+        | 0.37       | 0.07  | 6.32  | 107.4  | 93.5      | 0          | 48                   | A            |
| SO4-- corr | 0.55       | 0.07  | 5.75  | 158.7  | 99.8      | 0          | 49                   | A            |
| SO4--      | 0.62       | 0.12  | 6.22  | 179.7  | 99.8      | 0          | 49                   | A            |

PL0003R                      Sniezka                      Poland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.76       | 0.12  | 5.33  | 160.1  | 99.2      | 0          | 65           | A          |              |
| Ca++       | 0.65       | 0.24  | 5.98  | 136.5  | 98.8      | 0          | 61           | B          |              |
| Cl-        | 1.52       | 0.18  | 8.32  | 318.4  | 99.2      | 0          | 65           | A          |              |
| Mg++       | 0.150      | 0.070 | 0.720 | 31.4   | 98.8      | 0          | 61           | A          |              |
| NO3-       | 1.00       | 0.11  | 6.86  | 209.7  | 99.2      | 0          | 65           | A          |              |
| pH         | 4.41       | 3.47  | 6.47  | 8191.7 | 99.2      | 0          | 65           | A          |              |
| K+         | 0.21       | 0.09  | 1.02  | 43.6   | 98.8      | 0          | 61           | A          |              |
| Precip     | -          | 0.0   | 19.2  | 209.6  | 100.0     | 19         | 91           |            |              |
| Na+        | 0.39       | 0.16  | 2.31  | 82.7   | 98.8      | 0          | 61           | A          |              |
| SO4-- corr | 0.68       | 0.06  | 8.06  | 142.8  | 99.2      | 0          | 65           | A          |              |
| SO4--      | 0.77       | 0.14  | 8.45  | 162.2  | 99.2      | 0          | 65           | A          |              |

PL0004R                      Leba                      Poland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.43       | 0.06  | 2.23  | 56.4   | 92.4      | 0          | 43           | A          |              |
| Ca++       | 0.22       | 0.07  | 1.53  | 29.5   | 92.4      | 0          | 43           | B          |              |
| Cl-        | 2.61       | 0.30  | 28.63 | 344.6  | 92.4      | 0          | 43           | A          |              |
| Mg++       | 0.151      | 0.010 | 0.690 | 19.9   | 92.4      | 0          | 43           | A          |              |
| NO3-       | 0.65       | 0.12  | 3.38  | 86.6   | 92.4      | 0          | 43           | A          |              |
| pH         | 4.55       | 3.81  | 5.41  | 3688.2 | 92.4      | 0          | 43           | A          |              |
| K+         | 0.08       | 0.01  | 0.52  | 10.9   | 92.4      | 0          | 43           | A          |              |
| Precip     | -          | 0.0   | 16.0  | 132.2  | 90.0      | 24         | 81           |            |              |
| Na+        | 1.41       | 0.05  | 16.56 | 186.8  | 92.4      | 0          | 43           | A          |              |
| SO4-- corr | 0.54       | 0.16  | 2.25  | 70.8   | 92.4      | 0          | 43           | A          |              |
| SO4--      | 0.65       | 0.16  | 2.45  | 86.4   | 92.4      | 0          | 43           | A          |              |

PL0004R                      Leba                      Poland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.62       | 0.02  | 11.31 | 105.1  | 99.4      | 0          | 32           | A          |              |
| Ca++       | 0.23       | 0.04  | 3.53  | 39.7   | 99.4      | 0          | 32           | B          |              |
| Cl-        | 0.53       | 0.08  | 3.38  | 90.5   | 99.4      | 0          | 32           | A          |              |
| Mg++       | 0.069      | 0.020 | 0.630 | 11.7   | 99.4      | 0          | 32           | A          |              |
| NO3-       | 0.44       | 0.01  | 3.88  | 74.3   | 99.4      | 0          | 32           | A          |              |
| pH         | 4.74       | 3.71  | 6.45  | 3100.9 | 99.4      | 0          | 32           | A          |              |
| K+         | 0.11       | 0.02  | 2.91  | 19.1   | 99.4      | 0          | 32           | A          |              |
| Precip     | -          | 0.0   | 33.9  | 170.4  | 100.0     | 54         | 92           |            |              |
| Na+        | 0.29       | 0.02  | 1.89  | 49.3   | 99.4      | 0          | 32           | A          |              |
| SO4-- corr | 0.59       | 0.05  | 4.83  | 100.5  | 99.4      | 0          | 32           | A          |              |
| SO4--      | 0.62       | 0.05  | 4.93  | 105.5  | 99.4      | 0          | 32           | A          |              |

PL0004R                      Leba                      Poland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.53       | 0.05  | 5.87  | 150.8  | 98.8      | 0          | 34           | A          |              |
| Ca++       | 0.22       | 0.10  | 2.26  | 61.2   | 98.8      | 0          | 34           | B          |              |
| Cl-        | 0.66       | 0.15  | 2.58  | 187.9  | 98.8      | 0          | 34           | A          |              |
| Mg++       | 0.071      | 0.030 | 0.490 | 20.1   | 98.8      | 0          | 34           | A          |              |
| NO3-       | 0.28       | 0.05  | 4.00  | 79.5   | 98.8      | 0          | 34           | A          |              |
| pH         | 5.30       | 4.40  | 6.61  | 1416.5 | 98.8      | 0          | 34           | A          |              |
| K+         | 0.14       | 0.02  | 1.75  | 38.8   | 98.8      | 0          | 34           | A          |              |
| Precip     | -          | 0.0   | 55.0  | 285.2  | 100.0     | 50         | 92           |            |              |
| Na+        | 0.38       | 0.07  | 1.66  | 107.3  | 98.8      | 0          | 34           | A          |              |
| SO4-- corr | 0.43       | 0.15  | 3.51  | 122.9  | 98.8      | 0          | 34           | A          |              |
| SO4--      | 0.46       | 0.17  | 3.55  | 132.3  | 98.8      | 0          | 34           | A          |              |

PL0004R Leba Poland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.63       | 0.01  | 6.26  | 104.6  | 96.9      | 0          | 35                   | A            |
| Ca++       | 0.25       | 0.05  | 1.56  | 41.4   | 96.9      | 0          | 35                   | B            |
| Cl-        | 1.06       | 0.21  | 18.21 | 176.7  | 96.9      | 0          | 35                   | A            |
| Mg++       | 0.097      | 0.020 | 1.070 | 16.0   | 96.9      | 0          | 35                   | A            |
| NO3-       | 0.56       | 0.11  | 8.50  | 92.3   | 96.9      | 0          | 35                   | A            |
| pH         | 4.51       | 3.36  | 5.77  | 5073.6 | 96.9      | 0          | 35                   | A            |
| K+         | 0.10       | 0.02  | 0.72  | 16.5   | 96.9      | 0          | 35                   | A            |
| Precip     | -          | 0.0   | 30.9  | 166.1  | 100.0     | 45         | 91                   |              |
| Na+        | 0.57       | 0.09  | 9.52  | 95.5   | 96.9      | 0          | 35                   | A            |
| SO4-- corr | 0.80       | 0.12  | 7.01  | 132.8  | 96.9      | 0          | 35                   | A            |
| SO4--      | 0.85       | 0.18  | 7.40  | 141.0  | 96.9      | 0          | 35                   | A            |

PL0005R Diabla Gora Poland

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.44       | 0.01  | 5.32  | 48.8   | 100.0     | 0          | 53                   | A            |
| Ca++       | 0.12       | 0.00  | 0.90  | 13.0   | 93.2      | 9          | 41                   | A            |
| Cl-        | 0.80       | 0.10  | 5.10  | 88.8   | 99.6      | 0          | 52                   | B            |
| Mg++       | 0.054      | 0.006 | 0.307 | 6.1    | 93.2      | 0          | 41                   | A            |
| NO3-       | 0.74       | 0.14  | 6.78  | 82.1   | 100.0     | 0          | 53                   | A            |
| pH         | 4.57       | 3.87  | 5.41  | 2982.4 | 95.2      | 0          | 48                   | B            |
| K+         | 0.14       | 0.02  | 1.01  | 16.2   | 97.2      | 0          | 42                   | A            |
| Precip     | -          | 0.0   | 8.8   | 111.5  | 100.0     | 37         | 90                   |              |
| Precip off | -          | 0.0   | 7.4   | 112.1  | 100.0     | 37         | 90                   |              |
| Na+        | 0.40       | 0.02  | 2.58  | 44.7   | 97.2      | 0          | 42                   | A            |
| SO4-- corr | 0.64       | 0.11  | 5.35  | 71.8   | 100.0     | 0          | 53                   | B            |
| SO4--      | 0.68       | 0.17  | 5.41  | 76.2   | 100.0     | 0          | 53                   | B            |

PL0005R Diabla Gora Poland

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.49       | 0.05  | 4.75  | 78.8   | 100.0     | 0          | 37                   | A            |
| Ca++       | 0.41       | 0.00  | 3.00  | 65.9   | 95.3      | 2          | 29                   | A            |
| Cl-        | 0.26       | 0.05  | 7.00  | 42.1   | 95.2      | 7          | 35                   | B            |
| Mg++       | 0.083      | 0.008 | 0.482 | 13.4   | 95.3      | 0          | 29                   | A            |
| NO3-       | 0.47       | 0.12  | 4.51  | 76.3   | 95.2      | 0          | 36                   | A            |
| pH         | 4.76       | 3.63  | 6.23  | 2763.5 | 99.9      | 0          | 36                   | B            |
| K+         | 0.19       | 0.03  | 1.00  | 30.3   | 99.2      | 0          | 30                   | A            |
| Precip     | -          | 0.0   | 35.2  | 162.5  | 100.0     | 55         | 92                   |              |
| Precip off | -          | 0.0   | 35.6  | 161.0  | 100.0     | 55         | 92                   |              |
| Na+        | 0.15       | 0.02  | 0.90  | 24.1   | 95.3      | 0          | 29                   | A            |
| SO4-- corr | 0.61       | 0.10  | 6.48  | 98.0   | 95.2      | 0          | 35                   | B            |
| SO4--      | 0.62       | 0.11  | 6.60  | 100.5  | 95.2      | 0          | 36                   | B            |

PL0005R Diabla Gora Poland

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.52       | 0.04  | 2.24  | 114.6  | 98.6      | 1          | 41                   | A            |
| Ca++       | 0.31       | 0.10  | 1.80  | 68.8   | 98.6      | 0          | 40                   | A            |
| Cl-        | 0.26       | 0.05  | 2.70  | 57.7   | 98.6      | 10         | 41                   | B            |
| Mg++       | 0.062      | 0.018 | 0.329 | 13.7   | 90.8      | 0          | 39                   | A            |
| NO3-       | 0.36       | 0.09  | 1.98  | 79.1   | 98.6      | 0          | 41                   | A            |
| pH         | 5.16       | 4.30  | 6.88  | 1518.1 | 98.0      | 0          | 40                   | B            |
| K+         | 0.23       | 0.05  | 2.73  | 50.8   | 98.6      | 0          | 40                   | A            |
| Precip     | -          | 0.0   | 28.1  | 219.0  | 100.0     | 51         | 92                   |              |
| Precip off | -          | 0.0   | 28.7  | 220.1  | 100.0     | 50         | 92                   |              |
| Na+        | 0.16       | 0.03  | 1.81  | 35.8   | 90.5      | 0          | 37                   | A            |
| SO4-- corr | 0.57       | 0.14  | 2.98  | 124.7  | 98.6      | 0          | 41                   | B            |
| SO4--      | 0.59       | 0.17  | 3.01  | 130.2  | 98.6      | 0          | 41                   | B            |

PL0005R Diabla Gora Poland

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.37       | 0.02  | 3.00  | 54.0   | 99.6      | 0          | 40           | A          |              |
| Ca++       | 0.22       | 0.00  | 1.80  | 32.0   | 99.5      | 3          | 39           | A          |              |
| Cl-        | 0.54       | 0.05  | 2.70  | 79.2   | 99.6      | 2          | 40           | B          |              |
| Mg++       | 0.045      | 0.005 | 0.307 | 6.6    | 95.1      | 0          | 38           | A          |              |
| NO3-       | 0.43       | 0.11  | 1.84  | 62.2   | 99.6      | 0          | 40           | A          |              |
| pH         | 4.54       | 3.76  | 6.48  | 4245.0 | 100.0     | 0          | 41           | B          |              |
| K+         | 0.09       | 0.02  | 1.43  | 13.7   | 99.0      | 0          | 38           | A          |              |
| Precip     | -          | 0.0   | 12.5  | 151.8  | 100.0     | 51         | 91           |            |              |
| Precip off | -          | 0.0   | 12.0  | 146.2  | 100.0     | 50         | 91           |            |              |
| Na+        | 0.20       | 0.01  | 1.54  | 29.6   | 95.1      | 0          | 38           | A          |              |
| SO4-- corr | 0.50       | 0.11  | 2.24  | 73.2   | 99.6      | 0          | 40           | B          |              |
| SO4--      | 0.53       | 0.13  | 2.45  | 77.7   | 99.6      | 0          | 40           | B          |              |

PT0001R Braganca Portugal

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.14       | 0.08  | 0.21  | 10.9   | 81.5      | 1          | 3            | A          |              |
| Ca++       | 0.38       | 0.10  | 0.60  | 29.8   | 81.5      | 1          | 3            | A          |              |
| Cl-        | 0.22       | 0.20  | 0.30  | 17.4   | 81.5      | 0          | 3            | A          |              |
| Mg++       | 0.101      | 0.070 | 0.120 | 8.0    | 81.5      | 1          | 3            | A          |              |
| NO3-       | 0.20       | 0.14  | 0.29  | 15.9   | 81.5      | 0          | 3            | A          |              |
| pH         | 4.35       | 4.03  | 5.31  | 3558.0 | 81.5      | 0          | 3            | A          |              |
| K+         | 0.07       | 0.04  | 0.10  | 5.4    | 81.5      | 3          | 3            | A          |              |
| Precip off | -          | 0.0   | 30.7  | 79.4   | 100.0     | 85         | 90           |            |              |
| Na+        | 0.27       | 0.01  | 0.49  | 21.1   | 81.5      | 2          | 3            | B          |              |
| SO4-- corr | 0.30       | 0.27  | 0.32  | 24.0   | 81.5      | 0          | 3            | A          |              |
| SO4--      | 0.32       | 0.27  | 0.36  | 25.7   | 81.5      | 0          | 3            | A          |              |

PT0001R Braganca Portugal

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.15       | 0.01  | 0.72  | 23.8  | 100.0     | 5          | 14           | A          |              |
| Ca++       | 0.76       | 0.05  | 8.60  | 122.8 | 100.0     | 1          | 14           | A          |              |
| Cl-        | 0.45       | 0.10  | 3.20  | 72.4  | 100.0     | 0          | 14           | A          |              |
| Mg++       | 0.047      | 0.015 | 0.210 | 7.6   | 100.0     | 4          | 14           | A          |              |
| NO3-       | 0.08       | 0.01  | 0.26  | 12.0  | 100.0     | 6          | 14           | A          |              |
| pH         | 5.57       | 5.29  | 6.88  | 426.6 | 100.0     | 0          | 14           | A          |              |
| K+         | 0.05       | 0.04  | 0.26  | 7.7   | 100.0     | 13         | 14           | A          |              |
| Precip off | -          | 0.0   | 30.7  | 160.5 | 100.0     | 78         | 92           |            |              |
| Na+        | 0.14       | 0.01  | 0.98  | 23.3  | 100.0     | 5          | 14           | B          |              |
| SO4-- corr | 0.31       | 0.07  | 1.97  | 49.0  | 100.0     | 0          | 14           | A          |              |
| SO4--      | 0.33       | 0.09  | 2.05  | 52.9  | 100.0     | 0          | 14           | A          |              |

PT0001R Braganca Portugal

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.35       | 0.10  | 0.50  | 18.3 | 100.0     | 0          | 3            | A          |              |
| Ca++       | 0.67       | 0.20  | 1.00  | 34.9 | 100.0     | 0          | 3            | A          |              |
| Cl-        | 0.21       | 0.00  | 0.60  | 11.0 | 100.0     | 1          | 3            | A          |              |
| Mg++       | 0.096      | 0.040 | 0.130 | 5.0  | 100.0     | 0          | 3            | A          |              |
| NO3-       | 0.17       | 0.08  | 0.23  | 8.8  | 100.0     | 0          | 3            | A          |              |
| pH         | 5.97       | 5.60  | 6.67  | 55.1 | 100.0     | 0          | 3            | A          |              |
| K+         | 0.14       | 0.04  | 0.22  | 7.3  | 100.0     | 2          | 3            | A          |              |
| Precip off | -          | 0.0   | 29.0  | 51.9 | 100.0     | 89         | 92           |            |              |
| Na+        | 0.15       | 0.01  | 0.62  | 7.6  | 100.0     | 1          | 3            | B          |              |
| SO4-- corr | 0.24       | 0.15  | 0.30  | 12.3 | 100.0     | 0          | 3            | A          |              |
| SO4--      | 0.30       | 0.18  | 0.39  | 15.7 | 100.0     | 0          | 3            | A          |              |

PT0001R Braganca Portugal

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.47       | 0.01  | 4.49  | 97.7  | 100.0     | 5          | 11                   | A            |
| Ca++       | 3.88       | 0.05  | 20.50 | 811.2 | 100.0     | 1          | 11                   | A            |
| Cl-        | 1.16       | 0.00  | 5.30  | 242.3 | 100.0     | 2          | 11                   | A            |
| Mg++       | 0.121      | 0.015 | 0.640 | 25.2  | 100.0     | 2          | 11                   | A            |
| NO3-       | 0.13       | 0.01  | 1.01  | 26.5  | 100.0     | 3          | 11                   | A            |
| pH         | 5.65       | 5.11  | 7.47  | 468.3 | 100.0     | 0          | 11                   | A            |
| K+         | 0.13       | 0.04  | 1.57  | 26.8  | 100.0     | 7          | 11                   | A            |
| Precip off | -          | 0.0   | 55.8  | 208.8 | 100.0     | 80         | 91                   |              |
| Na+        | 0.45       | 0.01  | 2.26  | 93.0  | 100.0     | 4          | 11                   | B            |
| SO4-- corr | 0.71       | 0.09  | 2.38  | 148.7 | 100.0     | 0          | 11                   | A            |
| SO4--      | 0.76       | 0.10  | 2.53  | 158.6 | 100.0     | 0          | 11                   | A            |

PT0003R V. Do Castelo Portugal

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.20       | 0.01  | 0.81  | 53.6    | 60.3      | 1          | 15                   | A            |
| Ca++       | 0.45       | 0.10  | 2.60  | 119.8   | 60.3      | 0          | 15                   | A            |
| Cl-        | 3.92       | 0.60  | 14.80 | 1051.5  | 60.3      | 0          | 15                   | A            |
| Mg++       | 0.272      | 0.015 | 0.920 | 73.0    | 60.3      | 0          | 15                   | A            |
| NO3-       | 0.25       | 0.06  | 0.93  | 67.4    | 60.3      | 0          | 15                   | A            |
| pH         | 4.17       | 3.45  | 6.28  | 18286.5 | 60.3      | 0          | 15                   | A            |
| K+         | 0.07       | 0.04  | 0.29  | 19.4    | 60.3      | 5          | 15                   | A            |
| Precip off | -          | 0.0   | 32.1  | 268.1   | 100.0     | 70         | 90                   |              |
| Na+        | 2.07       | 0.28  | 7.28  | 553.7   | 60.3      | 0          | 15                   | B            |
| SO4-- corr | 0.45       | 0.10  | 1.92  | 121.0   | 51.8      | 0          | 14                   | A            |
| SO4--      | 0.62       | 0.16  | 2.22  | 165.8   | 51.8      | 0          | 14                   | A            |

PT0003R V. Do Castelo Portugal

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.21       | 0.01  | 3.28  | 72.4   | 100.0     | 1          | 30                   | A            |
| Ca++       | 0.32       | 0.05  | 2.40  | 111.6  | 100.0     | 1          | 30                   | A            |
| Cl-        | 5.04       | 0.20  | 20.10 | 1762.8 | 100.0     | 0          | 30                   | A            |
| Mg++       | 0.337      | 0.015 | 1.340 | 117.7  | 100.0     | 1          | 30                   | A            |
| NO3-       | 0.18       | 0.01  | 0.61  | 64.2   | 100.0     | 1          | 30                   | A            |
| pH         | 5.12       | 4.51  | 6.18  | 2661.8 | 100.0     | 0          | 30                   | A            |
| K+         | 0.15       | 0.04  | 2.22  | 50.9   | 100.0     | 14         | 30                   | A            |
| Precip off | -          | 0.0   | 32.1  | 349.5  | 100.0     | 62         | 92                   |              |
| Na+        | 3.01       | 0.13  | 13.15 | 1052.2 | 100.0     | 0          | 30                   | B            |
| SO4-- corr | 0.39       | -0.07 | 1.42  | 136.3  | 100.0     | 1          | 30                   | A            |
| SO4--      | 0.63       | 0.03  | 1.87  | 219.9  | 100.0     | 1          | 30                   | A            |

PT0003R V. Do Castelo Portugal

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.18       | 0.05  | 0.92  | 20.9  | 100.0     | 0          | 8                    | A            |
| Ca++       | 0.80       | 0.10  | 9.50  | 93.3  | 100.0     | 0          | 8                    | A            |
| Cl-        | 2.51       | 0.20  | 6.50  | 291.2 | 100.0     | 0          | 8                    | A            |
| Mg++       | 0.251      | 0.015 | 1.880 | 29.1  | 100.0     | 1          | 8                    | A            |
| NO3-       | 0.18       | 0.05  | 1.00  | 20.8  | 100.0     | 0          | 8                    | A            |
| pH         | 5.47       | 4.61  | 6.74  | 390.9 | 100.0     | 0          | 8                    | A            |
| K+         | 0.22       | 0.04  | 3.49  | 25.0  | 100.0     | 5          | 8                    | A            |
| Precip off | -          | 0.0   | 29.9  | 116.0 | 100.0     | 84         | 92                   |              |
| Na+        | 1.51       | 0.13  | 5.12  | 174.8 | 100.0     | 0          | 8                    | B            |
| SO4-- corr | 0.54       | 0.16  | 3.28  | 62.5  | 100.0     | 0          | 8                    | A            |
| SO4--      | 0.66       | 0.17  | 3.53  | 76.4  | 100.0     | 0          | 8                    | A            |

PT0003R V. Do Castelo Portugal

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.11       | 0.01  | 2.08  | 72.4   | 100.0     | 12         | 26 A                 |              |
| Ca++       | 0.20       | 0.05  | 2.10  | 130.0  | 100.0     | 9          | 26 A                 |              |
| Cl-        | 4.33       | 0.40  | 22.80 | 2862.8 | 100.0     | 0          | 26 A                 |              |
| Mg++       | 0.277      | 0.015 | 1.460 | 182.9  | 100.0     | 1          | 26 A                 |              |
| NO3-       | 0.06       | 0.01  | 0.93  | 39.1   | 100.0     | 12         | 26 A                 |              |
| pH         | 5.37       | 4.86  | 6.67  | 2792.0 | 100.0     | 0          | 26 A                 |              |
| K+         | 0.07       | 0.04  | 0.79  | 43.4   | 100.0     | 20         | 26 A                 |              |
| Precip off | -          | 0.0   | 176.7 | 661.0  | 100.0     | 65         | 91                   |              |
| Na+        | 2.16       | 0.27  | 10.86 | 1426.4 | 100.0     | 0          | 26 B                 |              |
| SO4-- corr | 0.24       | 0.08  | 1.57  | 159.9  | 100.0     | 0          | 26 A                 |              |
| SO4--      | 0.42       | 0.14  | 1.78  | 277.0  | 100.0     | 0          | 26 A                 |              |

PT0004R Monte Velho Portugal

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.24       | 0.01  | 3.60  | 38.7   | 46.0      | 3          | 12 A                 |              |
| Ca++       | 0.65       | 0.10  | 8.90  | 105.9  | 46.0      | 0          | 12 A                 |              |
| Cl-        | 5.18       | 1.70  | 34.30 | 838.1  | 46.0      | 0          | 12 A                 |              |
| Mg++       | 0.418      | 0.180 | 2.970 | 67.7   | 45.1      | 0          | 11 A                 |              |
| NO3-       | 0.21       | 0.03  | 1.09  | 34.1   | 46.0      | 0          | 12 A                 |              |
| pH         | 5.00       | 4.24  | 7.32  | 1629.8 | 46.0      | 0          | 12 A                 |              |
| K+         | 0.17       | 0.04  | 3.27  | 28.0   | 46.0      | 2          | 12 A                 |              |
| Precip off | -          | 0.0   | 25.6  | 161.8  | 100.0     | 75         | 90                   |              |
| Na+        | 3.69       | 1.35  | 22.05 | 597.9  | 46.0      | 0          | 12 B                 |              |
| SO4-- corr | 0.60       | -0.12 | 4.39  | 97.5   | 46.0      | 1          | 12 A                 |              |
| SO4--      | 0.88       | 0.45  | 6.24  | 142.6  | 46.0      | 0          | 12 A                 |              |

PT0004R Monte Velho Portugal

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.32       | 0.01  | 5.12  | 56.8   | 100.0     | 1          | 18 A                 |              |
| Ca++       | 0.45       | 0.10  | 5.30  | 78.8   | 100.0     | 0          | 18 A                 |              |
| Cl-        | 5.30       | 0.80  | 30.80 | 933.9  | 100.0     | 0          | 18 A                 |              |
| Mg++       | 0.334      | 0.015 | 2.190 | 58.8   | 100.0     | 1          | 18 A                 |              |
| NO3-       | 0.17       | 0.01  | 1.23  | 29.5   | 100.0     | 2          | 18 A                 |              |
| pH         | 4.92       | 4.05  | 7.61  | 2121.9 | 100.0     | 0          | 18 A                 |              |
| K+         | 0.25       | 0.04  | 4.00  | 44.1   | 100.0     | 7          | 18 A                 |              |
| Precip off | -          | 0.0   | 25.5  | 176.2  | 100.0     | 74         | 92                   |              |
| Na+        | 2.94       | 0.33  | 19.57 | 518.0  | 100.0     | 0          | 18 B                 |              |
| SO4-- corr | 0.57       | 0.12  | 2.35  | 100.6  | 100.0     | 0          | 18 A                 |              |
| SO4--      | 0.80       | 0.20  | 3.87  | 140.4  | 100.0     | 0          | 18 A                 |              |

PT0004R Monte Velho Portugal

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | 0.01       | 0.01  | 0.01  | 0.2  | 87.1      | 1          | 1 A                  |              |
| Ca++       | 1.00       | 1.00  | 1.00  | 13.2 | 87.1      | 0          | 1 A                  |              |
| Cl-        | 2.70       | 2.70  | 2.70  | 35.6 | 87.1      | 0          | 1 A                  |              |
| Mg++       | 0.210      | 0.210 | 0.210 | 2.8  | 87.1      | 0          | 1 A                  |              |
| NO3-       | 0.16       | 0.16  | 0.16  | 2.1  | 87.1      | 0          | 1 A                  |              |
| pH         | 6.27       | 6.23  | 6.80  | 7.0  | 100.0     | 0          | 2 A                  |              |
| K+         | 0.04       | 0.04  | 0.04  | 0.5  | 87.1      | 1          | 1 A                  |              |
| Precip off | -          | 0.0   | 11.5  | 13.2 | 100.0     | 90         | 92                   |              |
| Na+        | 1.60       | 1.60  | 1.60  | 21.1 | 87.1      | 0          | 1 B                  |              |
| SO4-- corr | 0.44       | 0.44  | 0.44  | 5.8  | 87.1      | 0          | 1 A                  |              |
| SO4--      | 0.57       | 0.57  | 0.57  | 7.5  | 87.1      | 0          | 1 A                  |              |

PT0004R Monte Velho Portugal

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.23       | 0.01  | 3.37  | 59.1   | 99.4      | 2          | 17                   | A            |
| Ca++       | 0.56       | 0.05  | 2.30  | 140.0  | 99.4      | 2          | 17                   | A            |
| Cl-        | 8.52       | 0.40  | 23.30 | 2150.0 | 99.4      | 0          | 17                   | A            |
| Mg++       | 0.576      | 0.080 | 1.510 | 145.3  | 99.4      | 0          | 17                   | A            |
| NO3-       | 0.15       | 0.02  | 0.64  | 38.4   | 99.4      | 0          | 17                   | A            |
| pH         | 5.50       | 4.93  | 7.25  | 791.8  | 100.0     | 0          | 18                   | A            |
| K+         | 0.12       | 0.04  | 0.62  | 29.8   | 99.4      | 4          | 17                   | A            |
| Precip off | -          | 0.0   | 63.5  | 252.3  | 100.0     | 73         | 91                   |              |
| Na+        | 4.49       | 0.24  | 12.19 | 1132.6 | 99.4      | 0          | 17                   | B            |
| SO4-- corr | 0.38       | 0.07  | 0.99  | 96.7   | 99.4      | 0          | 17                   | A            |
| SO4--      | 0.76       | 0.32  | 1.30  | 191.0  | 99.4      | 0          | 17                   | A            |

RU0001R Janiskoski Russian Federation

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.58       | 0.02  | 5.25  | 30.1  | 100.0     | 0          | 17                   | A            |
| Ca++       | 0.20       | 0.01  | 0.83  | 10.3  | 100.0     | 1          | 17                   | B            |
| Cl-        | 3.58       | 0.31  | 44.25 | 186.2 | 100.0     | 0          | 17                   | B            |
| Mg++       | 0.043      | 0.002 | 0.204 | 2.2   | 100.0     | 0          | 17                   | A            |
| NO3-       | 0.19       | 0.06  | 0.47  | 10.0  | 100.0     | 0          | 17                   | A            |
| pH         | 5.29       | 4.83  | 7.72  | 266.7 | 100.0     | 0          | 17                   | A            |
| K+         | 0.86       | 0.18  | 5.28  | 44.7  | 100.0     | 0          | 17                   | B            |
| Precip     | -          | 0.0   | 6.7   | 52.0  | 100.0     | 73         | 90                   |              |
| Na+        | 2.20       | 0.18  | 26.39 | 114.5 | 100.0     | 0          | 17                   | B            |
| SO4-- corr | 0.21       | -0.22 | 0.61  | 10.9  | 100.0     | 2          | 17                   | A            |
| SO4--      | 0.33       | 0.05  | 1.00  | 17.1  | 100.0     | 0          | 17                   | A            |

RU0001R Janiskoski Russian Federation

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.75       | 0.00  | 5.90  | 44.2  | 100.0     | 3          | 16                   | A            |
| Ca++       | 0.28       | 0.02  | 1.82  | 16.7  | 100.0     | 0          | 16                   | B            |
| Cl-        | 3.63       | 0.54  | 23.10 | 214.7 | 100.0     | 0          | 16                   | B            |
| Mg++       | 0.107      | 0.009 | 1.568 | 6.3   | 100.0     | 0          | 16                   | A            |
| NO3-       | 0.38       | 0.00  | 2.52  | 22.7  | 100.0     | 1          | 16                   | A            |
| pH         | 4.89       | 4.23  | 7.70  | 754.1 | 100.0     | 0          | 16                   | A            |
| K+         | 1.06       | 0.32  | 5.13  | 62.5  | 100.0     | 0          | 16                   | B            |
| Precip     | -          | 0.0   | 7.2   | 59.2  | 100.0     | 76         | 92                   |              |
| Na+        | 2.03       | 0.35  | 11.44 | 120.1 | 100.0     | 0          | 16                   | B            |
| SO4-- corr | 0.61       | 0.12  | 3.05  | 36.2  | 100.0     | 0          | 16                   | A            |
| SO4--      | 0.68       | 0.20  | 3.20  | 40.4  | 100.0     | 0          | 16                   | A            |

RU0001R Janiskoski Russian Federation

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.03       | 0.00  | 0.41  | 9.1    | 100.0     | 22         | 32                   | A            |
| Ca++       | 0.09       | 0.01  | 0.65  | 24.2   | 100.0     | 11         | 32                   | B            |
| Cl-        | 0.47       | 0.13  | 2.66  | 124.3  | 100.0     | 0          | 32                   | B            |
| Mg++       | 0.006      | 0.001 | 0.096 | 1.5    | 100.0     | 18         | 32                   | A            |
| NO3-       | 0.03       | 0.00  | 0.49  | 8.7    | 100.0     | 21         | 32                   | A            |
| pH         | 4.64       | 4.28  | 6.37  | 6191.4 | 99.2      | 0          | 31                   | A            |
| K+         | 0.18       | 0.03  | 1.11  | 48.4   | 100.0     | 1          | 32                   | B            |
| Precip     | -          | 0.0   | 66.1  | 267.5  | 100.0     | 60         | 92                   |              |
| Na+        | 0.25       | 0.10  | 1.92  | 67.8   | 100.0     | 0          | 32                   | B            |
| SO4-- corr | 0.40       | 0.11  | 0.88  | 106.4  | 100.0     | 0          | 32                   | A            |
| SO4--      | 0.41       | 0.12  | 0.88  | 110.0  | 100.0     | 0          | 32                   | A            |

RU0001R Janiskoski Russian Federation

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.12       | 0.00  | 0.66  | 17.3   | 100.0     | 10         | 27           | A          |              |
| Ca++       | 0.13       | 0.01  | 0.55  | 20.2   | 100.0     | 5          | 27           | B          |              |
| Cl-        | 1.09       | 0.20  | 3.60  | 164.7  | 100.0     | 0          | 27           | B          |              |
| Mg++       | 0.015      | 0.001 | 0.085 | 2.2    | 100.0     | 9          | 27           | A          |              |
| NO3-       | 0.09       | 0.00  | 0.75  | 13.1   | 100.0     | 9          | 27           | A          |              |
| pH         | 5.15       | 4.15  | 7.23  | 1076.0 | 100.0     | 0          | 27           | A          |              |
| K+         | 0.39       | 0.02  | 1.47  | 58.3   | 100.0     | 1          | 27           | B          |              |
| Precip     | -          | 0.0   | 16.9  | 150.7  | 100.0     | 64         | 91           |            |              |
| Na+        | 0.68       | 0.13  | 2.54  | 102.2  | 100.0     | 0          | 27           | B          |              |
| SO4-- corr | 0.19       | 0.03  | 2.10  | 28.9   | 100.0     | 0          | 27           | A          |              |
| SO4--      | 0.24       | 0.03  | 2.16  | 36.4   | 100.0     | 0          | 27           | A          |              |

RU0013R Pinega Russian Federation

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.36       | 0.00  | 1.22  | 19.8  | 100.0     | 3          | 32           | A          |              |
| Ca++       | 0.23       | 0.02  | 0.77  | 12.9  | 99.5      | 0          | 31           | B          |              |
| Cl-        | 0.55       | 0.13  | 2.01  | 30.5  | 100.0     | 0          | 32           | B          |              |
| Mg++       | 0.026      | 0.002 | 0.105 | 1.4   | 99.5      | 0          | 31           | A          |              |
| NO3-       | 0.30       | 0.00  | 1.05  | 16.6  | 100.0     | 2          | 32           | A          |              |
| pH         | 5.23       | 4.76  | 6.04  | 328.3 | 100.0     | 0          | 32           | A          |              |
| K+         | 0.35       | 0.16  | 0.71  | 19.7  | 100.0     | 0          | 32           | B          |              |
| Precip     | -          | 0.0   | 4.4   | 55.6  | 100.0     | 58         | 90           |            |              |
| Na+        | 0.34       | 0.10  | 1.22  | 19.0  | 100.0     | 0          | 32           | B          |              |
| SO4-- corr | 0.40       | 0.13  | 1.11  | 22.0  | 100.0     | 0          | 32           | A          |              |
| SO4--      | 0.42       | 0.14  | 1.14  | 23.5  | 100.0     | 0          | 32           | A          |              |

RU0013R Pinega Russian Federation

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.25       | 0.01  | 2.79  | 20.3  | 100.0     | 4          | 32           | A          |              |
| Ca++       | 0.26       | 0.04  | 2.02  | 20.8  | 100.0     | 0          | 32           | B          |              |
| Cl-        | 0.57       | 0.16  | 2.65  | 45.9  | 100.0     | 0          | 32           | B          |              |
| Mg++       | 0.057      | 0.010 | 0.662 | 4.6   | 100.0     | 0          | 32           | A          |              |
| NO3-       | 0.19       | 0.00  | 1.78  | 15.6  | 100.0     | 4          | 32           | A          |              |
| pH         | 4.92       | 4.24  | 6.94  | 975.5 | 100.0     | 0          | 32           | A          |              |
| K+         | 0.34       | 0.18  | 1.98  | 27.5  | 100.0     | 0          | 32           | B          |              |
| Precip     | -          | 0.0   | 14.1  | 81.2  | 100.0     | 60         | 92           |            |              |
| Na+        | 0.28       | 0.11  | 1.06  | 22.5  | 100.0     | 0          | 32           | B          |              |
| SO4-- corr | 0.50       | 0.16  | 3.70  | 40.8  | 100.0     | 0          | 32           | A          |              |
| SO4--      | 0.53       | 0.19  | 3.78  | 43.1  | 100.0     | 0          | 32           | A          |              |

RU0013R Pinega Russian Federation

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.17       | 0.00  | 1.92  | 31.0   | 100.0     | 10         | 37           | A          |              |
| Ca++       | 0.24       | 0.05  | 1.05  | 43.1   | 100.0     | 0          | 37           | B          |              |
| Cl-        | 0.59       | 0.23  | 3.17  | 106.9  | 95.1      | 0          | 36           | B          |              |
| Mg++       | 0.054      | 0.001 | 0.749 | 9.8    | 100.0     | 1          | 37           | A          |              |
| NO3-       | 0.09       | 0.00  | 0.57  | 15.8   | 100.0     | 8          | 37           | A          |              |
| pH         | 5.03       | 4.25  | 6.92  | 1695.9 | 100.0     | 0          | 37           | A          |              |
| K+         | 0.25       | 0.12  | 2.53  | 44.3   | 95.1      | 0          | 36           | B          |              |
| Precip     | -          | 0.0   | 39.6  | 181.0  | 100.0     | 55         | 92           |            |              |
| Na+        | 0.25       | 0.09  | 0.93  | 44.9   | 100.0     | 0          | 37           | B          |              |
| SO4-- corr | 0.38       | 0.12  | 2.41  | 69.7   | 100.0     | 0          | 37           | A          |              |
| SO4--      | 0.41       | 0.13  | 2.49  | 73.3   | 100.0     | 0          | 37           | A          |              |

RU0013R Pinega Russian Federation

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.26       | 0.00  | 1.59  | 29.3  | 100.0     | 9          | 37                   | A            |
| Ca++       | 0.25       | 0.01  | 1.47  | 27.6  | 100.0     | 1          | 37                   | B            |
| Cl-        | 0.60       | 0.17  | 3.63  | 67.3  | 100.0     | 0          | 37                   | B            |
| Mg++       | 0.044      | 0.001 | 0.700 | 4.9   | 100.0     | 3          | 37                   | A            |
| NO3-       | 0.17       | 0.00  | 0.75  | 19.5  | 100.0     | 6          | 37                   | A            |
| pH         | 5.28       | 4.78  | 7.23  | 591.8 | 100.0     | 0          | 37                   | A            |
| K+         | 0.34       | 0.11  | 4.10  | 38.4  | 100.0     | 0          | 37                   | B            |
| Precip     | -          | 0.0   | 9.3   | 111.5 | 100.0     | 54         | 91                   |              |
| Na+        | 0.27       | 0.08  | 1.90  | 30.4  | 100.0     | 0          | 37                   | B            |
| SO4-- corr | 0.46       | 0.03  | 2.71  | 51.1  | 100.0     | 0          | 37                   | A            |
| SO4--      | 0.48       | 0.05  | 2.75  | 53.1  | 100.0     | 0          | 37                   | A            |

RU0016R Shepeljovo Russian Federation

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.16       | 0.00  | 1.43  | 24.0   | 100.0     | 1          | 36                   | A            |
| Ca++       | 1.03       | 0.15  | 8.53  | 156.0  | 100.0     | 0          | 36                   | B            |
| Cl-        | 5.48       | 0.20  | 60.10 | 831.2  | 100.0     | 0          | 36                   | B            |
| Mg++       | 0.424      | 0.012 | 3.950 | 64.3   | 100.0     | 0          | 36                   | A            |
| NO3-       | 0.45       | 0.13  | 3.88  | 68.6   | 100.0     | 0          | 36                   | A            |
| pH         | 5.01       | 4.43  | 7.47  | 1470.2 | 100.0     | 0          | 36                   | A            |
| K+         | 0.40       | 0.04  | 2.03  | 61.2   | 100.0     | 0          | 36                   | B            |
| Precip     | -          | 0.0   | 18.1  | 151.6  | 100.0     | 54         | 90                   |              |
| Na+        | 3.47       | 0.14  | 37.68 | 526.4  | 100.0     | 0          | 36                   | B            |
| SO4-- corr | 1.21       | 0.22  | 21.59 | 183.2  | 100.0     | 0          | 36                   | A            |
| SO4--      | 1.47       | 0.24  | 21.93 | 222.7  | 100.0     | 0          | 36                   | A            |

RU0016R Shepeljovo Russian Federation

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.85       | 0.08  | 5.75  | 36.6  | 100.0     | 0          | 17                   | A            |
| Ca++       | 1.33       | 0.49  | 4.57  | 57.4  | 100.0     | 0          | 17                   | B            |
| Cl-        | 2.88       | 0.65  | 11.72 | 124.8 | 100.0     | 0          | 17                   | B            |
| Mg++       | 0.238      | 0.079 | 0.846 | 10.3  | 100.0     | 0          | 17                   | A            |
| NO3-       | 0.75       | 0.14  | 4.08  | 32.3  | 100.0     | 0          | 17                   | A            |
| pH         | 5.17       | 4.80  | 7.41  | 292.9 | 100.0     | 0          | 17                   | A            |
| K+         | 0.69       | 0.33  | 1.86  | 30.0  | 100.0     | 0          | 17                   | B            |
| Precip     | -          | 0.0   | 7.5   | 43.3  | 100.0     | 75         | 92                   |              |
| Na+        | 2.35       | 0.47  | 5.95  | 101.8 | 100.0     | 0          | 17                   | B            |
| SO4-- corr | 2.30       | 0.69  | 5.89  | 99.7  | 100.0     | 0          | 17                   | A            |
| SO4--      | 2.44       | 0.73  | 6.40  | 105.7 | 100.0     | 0          | 17                   | A            |

RU0016R Shepeljovo Russian Federation

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max    | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|--------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.31       | 0.00  | 1.23   | 95.8   | 100.0     | 5          | 22                   | A            |
| Ca++       | 0.48       | 0.10  | 5.85   | 147.7  | 100.0     | 0          | 22                   | B            |
| Cl-        | 1.25       | 0.31  | 110.60 | 380.6  | 100.0     | 0          | 22                   | B            |
| Mg++       | 0.105      | 0.018 | 3.240  | 32.1   | 100.0     | 0          | 22                   | A            |
| NO3-       | 0.32       | 0.00  | 1.59   | 99.3   | 100.0     | 4          | 22                   | A            |
| pH         | 5.01       | 4.46  | 7.18   | 2979.9 | 100.0     | 0          | 22                   | A            |
| K+         | 0.53       | 0.07  | 3.42   | 162.6  | 100.0     | 0          | 22                   | B            |
| Precip     | -          | 0.0   | 103.0  | 305.6  | 100.0     | 70         | 92                   |              |
| Na+        | 0.65       | 0.16  | 52.39  | 198.5  | 100.0     | 0          | 22                   | B            |
| SO4-- corr | 0.54       | 0.20  | 3.23   | 164.3  | 100.0     | 0          | 22                   | A            |
| SO4--      | 0.59       | 0.23  | 5.28   | 180.4  | 100.0     | 0          | 22                   | A            |

RU0016R Shepeljovo Russian Federation

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.27       | 0.00  | 0.99  | 36.1   | 100.0     | 10         | 30           | A          |              |
| Ca++       | 1.14       | 0.04  | 10.28 | 150.5  | 100.0     | 0          | 30           | B          |              |
| Cl-        | 10.47      | 0.28  | 74.70 | 1382.3 | 100.0     | 0          | 30           | B          |              |
| Mg++       | 0.411      | 0.002 | 2.419 | 54.3   | 100.0     | 0          | 30           | A          |              |
| NO3-       | 0.36       | 0.03  | 0.95  | 47.6   | 100.0     | 0          | 30           | A          |              |
| pH         | 4.92       | 4.30  | 7.36  | 1586.9 | 100.0     | 0          | 30           | A          |              |
| K+         | 0.49       | 0.14  | 1.82  | 64.9   | 100.0     | 0          | 30           | B          |              |
| Precip     | -          | 0.0   | 20.1  | 132.0  | 100.0     | 61         | 91           |            |              |
| Na+        | 6.11       | 0.30  | 57.54 | 806.8  | 100.0     | 0          | 30           | B          |              |
| SO4-- corr | 0.72       | -0.72 | 4.12  | 94.8   | 100.0     | 3          | 30           | A          |              |
| SO4--      | 1.20       | 0.23  | 6.50  | 158.4  | 100.0     | 0          | 30           | A          |              |

RU0018R Danki Russian Federation

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.58       | 0.00  | 2.00  | 191.1  | 98.9      | 4          | 31           | A          |              |
| Ca++       | 0.36       | 0.07  | 2.26  | 117.5  | 100.0     | 0          | 32           | B          |              |
| Cl-        | 0.30       | 0.08  | 1.12  | 99.0   | 100.0     | 0          | 32           | B          |              |
| Mg++       | 0.034      | 0.001 | 0.467 | 11.0   | 100.0     | 4          | 32           | A          |              |
| NO3-       | 0.25       | 0.00  | 1.80  | 81.3   | 100.0     | 3          | 32           | A          |              |
| pH         | 5.04       | 4.38  | 6.36  | 2972.6 | 99.8      | 0          | 31           | A          |              |
| K+         | 0.23       | 0.07  | 2.16  | 76.3   | 100.0     | 0          | 32           | B          |              |
| Precip     | -          | 0.0   | 44.7  | 326.4  | 88.0      | 49         | 81           |            |              |
| Na+        | 0.14       | 0.04  | 0.76  | 47.0   | 100.0     | 0          | 32           | B          |              |
| SO4-- corr | 0.49       | 0.22  | 1.32  | 161.1  | 100.0     | 0          | 32           | A          |              |
| SO4--      | 0.51       | 0.23  | 1.36  | 165.0  | 100.0     | 0          | 32           | A          |              |

RU0018R Danki Russian Federation

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.28       | 0.00  | 3.60  | 35.3   | 100.0     | 7          | 36           | A          |              |
| Ca++       | 0.36       | 0.02  | 1.46  | 45.6   | 100.0     | 0          | 36           | B          |              |
| Cl-        | 0.57       | 0.12  | 7.92  | 73.6   | 100.0     | 0          | 36           | B          |              |
| Mg++       | 0.038      | 0.001 | 0.340 | 4.9    | 100.0     | 2          | 36           | A          |              |
| NO3-       | 0.23       | 0.00  | 2.64  | 28.9   | 100.0     | 2          | 36           | A          |              |
| pH         | 4.97       | 4.26  | 6.78  | 1366.7 | 100.0     | 0          | 36           | A          |              |
| K+         | 0.34       | 0.05  | 3.36  | 43.6   | 100.0     | 0          | 36           | B          |              |
| Precip     | -          | 0.0   | 17.2  | 128.0  | 67.0      | 55         | 91           |            |              |
| Na+        | 0.31       | 0.03  | 4.83  | 40.2   | 100.0     | 0          | 36           | B          |              |
| SO4-- corr | 0.50       | 0.03  | 6.00  | 63.3   | 100.0     | 0          | 36           | A          |              |
| SO4--      | 0.52       | 0.07  | 6.19  | 67.2   | 100.0     | 0          | 36           | A          |              |

SE0002R Rorvik Sweden

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.41       | 0.04  | 5.90  | 80.7   | 99.7      | 0          | 42           | A          |              |
| Ca++       | 0.15       | 0.06  | 0.80  | 29.3   | 99.8      | 0          | 43           | B          |              |
| Cl-        | 2.97       | 0.08  | 12.57 | 588.6  | 99.8      | 0          | 43           | A          |              |
| Mg++       | 0.208      | 0.050 | 0.980 | 41.2   | 99.8      | 0          | 43           | A          |              |
| NO3-       | 0.59       | 0.13  | 3.91  | 117.5  | 99.8      | 0          | 43           | A          |              |
| pH         | 4.58       | 3.94  | 5.42  | 5208.7 | 99.8      | 0          | 43           | A          |              |
| K+         | 0.13       | 0.03  | 0.68  | 25.4   | 99.8      | 0          | 43           | B          |              |
| Precip     | -          | 0.0   | 19.2  | 198.0  | 100.0     | 44         | 90           |            |              |
| Na+        | 1.72       | 0.06  | 8.31  | 341.1  | 99.8      | 0          | 43           | A          |              |
| SO4-- corr | 0.50       | 0.06  | 7.54  | 99.9   | 99.8      | 0          | 43           | A          |              |
| SO4--      | 0.64       | 0.07  | 7.92  | 127.2  | 99.8      | 0          | 43           | A          |              |

SE0002R Rorvik Sweden

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.94       | 0.05  | 4.38  | 144.8  | 94.8      | 0          | 36                   | A            |
| Ca++       | 0.26       | 0.09  | 0.94  | 39.2   | 95.5      | 0          | 40                   | B            |
| Cl-        | 3.84       | 0.06  | 18.71 | 588.8  | 95.4      | 0          | 39                   | A            |
| Mg++       | 0.239      | 0.050 | 0.960 | 36.6   | 95.5      | 0          | 40                   | A            |
| NO3-       | 0.77       | 0.06  | 3.22  | 118.0  | 95.5      | 0          | 40                   | A            |
| pH         | 4.54       | 3.98  | 5.90  | 4414.1 | 100.0     | 0          | 43                   | A            |
| K+         | 0.22       | 0.04  | 2.56  | 34.4   | 95.5      | 0          | 40                   | B            |
| Precip     | -          | 0.0   | 21.7  | 153.3  | 100.0     | 49         | 92                   |              |
| Na+        | 2.17       | 0.11  | 10.11 | 332.8  | 95.4      | 0          | 39                   | A            |
| SO4-- corr | 0.73       | 0.04  | 4.70  | 111.2  | 95.5      | 0          | 40                   | A            |
| SO4--      | 0.88       | 0.17  | 4.85  | 134.9  | 95.5      | 0          | 40                   | A            |

SE0002R Rorvik Sweden

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.37       | 0.06  | 2.36  | 123.8  | 99.7      | 0          | 41                   | A            |
| Ca++       | 0.16       | 0.03  | 0.72  | 51.4   | 99.8      | 1          | 42                   | B            |
| Cl-        | 0.68       | 0.03  | 6.23  | 226.4  | 99.8      | 2          | 42                   | A            |
| Mg++       | 0.072      | 0.010 | 0.350 | 23.9   | 99.8      | 3          | 42                   | A            |
| NO3-       | 0.37       | 0.06  | 1.50  | 123.6  | 99.8      | 0          | 42                   | A            |
| pH         | 4.66       | 3.71  | 6.02  | 7272.0 | 100.0     | 0          | 44                   | A            |
| K+         | 0.10       | 0.04  | 0.37  | 33.1   | 99.8      | 6          | 42                   | B            |
| Precip     | -          | 0.0   | 27.2  | 330.8  | 100.0     | 47         | 92                   |              |
| Na+        | 0.40       | 0.06  | 3.36  | 133.7  | 99.8      | 6          | 42                   | A            |
| SO4-- corr | 0.39       | 0.05  | 2.03  | 128.2  | 99.8      | 0          | 42                   | A            |
| SO4--      | 0.42       | 0.06  | 2.05  | 140.4  | 99.8      | 0          | 42                   | A            |

SE0002R Rorvik Sweden

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.50       | 0.07  | 2.39  | 83.4   | 99.8      | 0          | 28                   | A            |
| Ca++       | 0.24       | 0.03  | 0.75  | 39.8   | 99.9      | 1          | 29                   | B            |
| Cl-        | 4.09       | 0.13  | 27.21 | 685.5  | 99.9      | 0          | 29                   | A            |
| Mg++       | 0.321      | 0.010 | 2.090 | 53.8   | 99.9      | 1          | 29                   | A            |
| NO3-       | 0.56       | 0.06  | 2.69  | 93.2   | 99.9      | 0          | 29                   | A            |
| pH         | 4.48       | 3.99  | 5.40  | 5522.9 | 99.9      | 0          | 29                   | A            |
| K+         | 0.18       | 0.04  | 0.82  | 30.2   | 99.9      | 3          | 29                   | B            |
| Precip     | -          | 0.0   | 27.3  | 167.5  | 91.2      | 53         | 83                   |              |
| Na+        | 2.42       | 0.06  | 18.05 | 405.0  | 99.9      | 1          | 29                   | A            |
| SO4-- corr | 0.53       | 0.10  | 2.23  | 88.3   | 99.9      | 0          | 29                   | A            |
| SO4--      | 0.73       | 0.23  | 2.27  | 121.9  | 99.9      | 0          | 29                   | A            |

SE0005R Bredkalen Sweden

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.03       | 0.01  | 0.22  | 4.0    | 100.0     | 0          | 13                   | A            |
| Ca++       | 0.07       | 0.01  | 0.21  | 9.6    | 100.0     | 0          | 13                   | B            |
| Cl-        | 0.70       | 0.00  | 3.71  | 92.5   | 100.0     | 1          | 13                   | A            |
| Mg++       | 0.060      | 0.030 | 0.170 | 7.9    | 100.0     | 0          | 13                   | A            |
| NO3-       | 0.18       | 0.06  | 0.55  | 23.4   | 100.0     | 0          | 13                   | A            |
| pH         | 4.97       | 4.52  | 5.31  | 1416.9 | 100.0     | 0          | 13                   | A            |
| K+         | 0.06       | 0.01  | 0.20  | 8.4    | 100.0     | 0          | 13                   | B            |
| Precip     | -          | 0.0   | 21.9  | 131.8  | 71.1      | 1          | 14                   | W            |
| Na+        | 0.39       | 0.01  | 2.14  | 52.0   | 100.0     | 0          | 13                   | A            |
| SO4-- corr | 0.07       | 0.02  | 0.96  | 9.4    | 100.0     | 0          | 13                   | A            |
| SO4--      | 0.11       | 0.05  | 0.98  | 14.6   | 100.0     | 0          | 13                   | A            |

| SE0005R               |            | Bredkalen |       | Sweden |           |            |              |            |              |
|-----------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |           |       |        |           |            |              |            |              |
| Component             | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.14       | 0.03      | 0.77  | 14.1   | 99.5      | 0          | 9            | A          | W            |
| Ca++                  | 0.14       | 0.07      | 0.24  | 13.8   | 100.0     | 0          | 11           | B          | W            |
| Cl-                   | 0.10       | 0.00      | 0.58  | 9.5    | 100.0     | 1          | 11           | A          | W            |
| Mg++                  | 0.038      | 0.030     | 0.100 | 3.8    | 100.0     | 0          | 11           | A          | W            |
| NO3-                  | 0.19       | 0.01      | 0.65  | 18.7   | 100.0     | 0          | 11           | A          | W            |
| pH                    | 4.70       | 4.38      | 5.26  | 1947.6 | 100.0     | 0          | 11           | A          | W            |
| K+                    | 0.08       | 0.02      | 0.19  | 8.1    | 100.0     | 0          | 11           | B          | W            |
| Precip                | -          | 0.0       | 36.1  | 97.8   | 100.0     | 5          | 16           |            | W            |
| Na+                   | 0.08       | 0.03      | 0.64  | 7.4    | 100.0     | 0          | 11           | A          | W            |
| SO4-- corr            | 0.24       | 0.02      | 0.63  | 23.6   | 100.0     | 0          | 11           | A          | W            |
| SO4--                 | 0.25       | 0.02      | 0.68  | 24.5   | 100.0     | 0          | 11           | A          | W            |

| SE0005R                 |            | Bredkalen |       | Sweden |           |            |              |            |              |
|-------------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |           |       |        |           |            |              |            |              |
| Component               | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.18       | 0.01      | 0.48  | 36.1   | 100.0     | 2          | 14           | A          | W            |
| Ca++                    | 0.08       | 0.03      | 0.14  | 16.6   | 100.0     | 2          | 14           | B          | W            |
| Cl-                     | 0.03       | 0.00      | 0.15  | 6.3    | 100.0     | 11         | 14           | A          | W            |
| Mg++                    | 0.019      | 0.010     | 0.050 | 3.8    | 100.0     | 8          | 14           | A          | W            |
| NO3-                    | 0.11       | 0.04      | 0.20  | 21.4   | 100.0     | 0          | 14           | A          | W            |
| pH                      | 4.99       | 4.75      | 5.23  | 2029.7 | 100.0     | 0          | 14           | A          | W            |
| K+                      | 0.08       | 0.04      | 0.15  | 15.9   | 100.0     | 8          | 14           | B          | W            |
| Precip                  | -          | 0.0       | 31.8  | 199.2  | 100.0     | 2          | 16           |            | W            |
| Na+                     | 0.05       | 0.03      | 0.06  | 11.0   | 100.0     | 10         | 14           | A          | W            |
| SO4-- corr              | 0.19       | 0.05      | 0.41  | 37.6   | 100.0     | 0          | 14           | A          | W            |
| SO4--                   | 0.20       | 0.06      | 0.41  | 39.1   | 100.0     | 0          | 14           | A          | W            |

| SE0005R                        |            | Bredkalen |       | Sweden |           |            |              |            |              |
|--------------------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |           |       |        |           |            |              |            |              |
| Component                      | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.10       | 0.01      | 0.57  | 14.9   | 99.9      | 1          | 14           | A          | W            |
| Ca++                           | 0.05       | 0.03      | 0.10  | 7.4    | 99.9      | 10         | 14           | B          | W            |
| Cl-                            | 0.12       | 0.06      | 0.22  | 18.1   | 99.9      | 0          | 14           | A          | W            |
| Mg++                           | 0.011      | 0.010     | 0.030 | 1.6    | 99.9      | 13         | 14           | A          | W            |
| NO3-                           | 0.13       | 0.00      | 0.30  | 19.0   | 99.9      | 1          | 14           | A          | W            |
| pH                             | 4.88       | 4.62      | 5.54  | 1937.8 | 99.9      | 0          | 14           | A          | W            |
| K+                             | 0.14       | 0.04      | 0.38  | 20.1   | 99.9      | 9          | 14           | B          | W            |
| Precip                         | -          | 0.1       | 39.3  | 147.5  | 100.0     | 0          | 15           |            | W            |
| Na+                            | 0.06       | 0.06      | 0.14  | 9.4    | 99.9      | 13         | 14           | A          | W            |
| SO4-- corr                     | 0.16       | 0.04      | 0.46  | 23.9   | 99.9      | 0          | 14           | A          | W            |
| SO4--                          | 0.17       | 0.04      | 0.46  | 24.7   | 99.9      | 0          | 14           | A          | W            |

| SE0011R                       |            | Vavihill |       | Sweden |           |            |              |            |              |
|-------------------------------|------------|----------|-------|--------|-----------|------------|--------------|------------|--------------|
| December 1998 - February 1999 |            |          |       |        |           |            |              |            |              |
| Component                     | W.<br>mean | Min      | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.65       | 0.27     | 2.32  | 129.1  | 100.0     | 0          | 13           | A          | W            |
| Ca++                          | 0.13       | 0.07     | 0.40  | 26.6   | 100.0     | 0          | 13           | B          | W            |
| Cl-                           | 1.64       | 0.26     | 5.07  | 325.6  | 100.0     | 0          | 13           | A          | W            |
| Mg++                          | 0.111      | 0.050    | 0.260 | 22.0   | 100.0     | 0          | 13           | A          | W            |
| NO3-                          | 0.71       | 0.29     | 2.65  | 140.4  | 100.0     | 0          | 13           | A          | W            |
| pH                            | 4.59       | 4.29     | 5.41  | 5102.7 | 100.0     | 0          | 13           | A          | W            |
| K+                            | 0.13       | 0.07     | 0.24  | 26.3   | 100.0     | 0          | 13           | B          | W            |
| Precip                        | -          | 0.0      | 33.6  | 198.1  | 72.2      | 2          | 15           |            | W            |
| Na+                           | 0.93       | 0.14     | 3.02  | 184.9  | 100.0     | 0          | 13           | A          | W            |
| SO4-- corr                    | 0.56       | 0.27     | 2.73  | 111.3  | 100.0     | 0          | 13           | A          | W            |
| SO4--                         | 0.64       | 0.30     | 2.82  | 126.2  | 100.0     | 0          | 13           | A          | W            |

SE0011R Vavihill Sweden

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.96       | 0.30  | 3.64  | 117.5  | 95.3      | 0          | 11                   | W            |
| Ca++       | 0.26       | 0.15  | 1.90  | 31.2   | 100.0     | 0          | 12 B                 | W            |
| Cl-        | 1.21       | 0.15  | 7.27  | 146.8  | 100.0     | 0          | 12 A                 | W            |
| Mg++       | 0.123      | 0.050 | 0.720 | 14.9   | 100.0     | 0          | 12 A                 | W            |
| NO3-       | 0.67       | 0.33  | 2.33  | 81.9   | 95.3      | 0          | 11 A                 | W            |
| pH         | 4.74       | 4.19  | 5.46  | 2205.3 | 100.0     | 0          | 12 A                 | W            |
| K+         | 0.16       | 0.07  | 0.51  | 20.0   | 100.0     | 0          | 12 B                 | W            |
| Precip     | -          | 0.0   | 28.3  | 121.8  | 100.0     | 5          | 16                   | W            |
| Na+        | 0.71       | 0.16  | 4.61  | 85.9   | 100.0     | 0          | 12 A                 | W            |
| SO4-- corr | 0.70       | 0.28  | 3.09  | 85.7   | 100.0     | 0          | 12 A                 | W            |
| SO4--      | 0.76       | 0.29  | 3.21  | 92.2   | 100.0     | 0          | 12 A                 | W            |

SE0011R Vavihill Sweden

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.37       | 0.24  | 2.30  | 101.4  | 100.0     | 0          | 14 A                 | W            |
| Ca++       | 0.14       | 0.09  | 0.47  | 38.7   | 100.0     | 0          | 14 B                 | W            |
| Cl-        | 0.32       | 0.00  | 0.85  | 86.7   | 100.0     | 2          | 14 A                 | W            |
| Mg++       | 0.047      | 0.030 | 0.100 | 12.7   | 100.0     | 0          | 14 A                 | W            |
| NO3-       | 0.32       | 0.20  | 1.59  | 86.9   | 100.0     | 0          | 14 A                 | W            |
| pH         | 4.77       | 4.19  | 5.08  | 4635.0 | 100.0     | 0          | 14 A                 | W            |
| K+         | 0.10       | 0.05  | 0.20  | 27.0   | 100.0     | 0          | 14 B                 | W            |
| Precip     | -          | 0.0   | 62.4  | 272.4  | 100.0     | 2          | 16                   | W            |
| Na+        | 0.21       | 0.06  | 0.55  | 57.6   | 100.0     | 1          | 14 A                 | W            |
| SO4-- corr | 0.36       | 0.21  | 1.53  | 98.3   | 100.0     | 0          | 14 A                 | W            |
| SO4--      | 0.38       | 0.22  | 1.56  | 104.5  | 100.0     | 0          | 14 A                 | W            |

SE0011R Vavihill Sweden

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.61       | 0.34  | 1.89  | 83.4   | 100.0     | 0          | 13 A                 | W            |
| Ca++       | 0.12       | 0.09  | 0.38  | 16.4   | 100.0     | 0          | 13 B                 | W            |
| Cl-        | 1.44       | 0.31  | 3.65  | 197.1  | 100.0     | 0          | 13 A                 | W            |
| Mg++       | 0.115      | 0.050 | 0.230 | 15.8   | 100.0     | 0          | 13 A                 | W            |
| NO3-       | 0.59       | 0.25  | 1.64  | 81.1   | 100.0     | 0          | 13 A                 | W            |
| pH         | 4.51       | 3.98  | 4.90  | 4256.4 | 100.0     | 0          | 13 A                 | W            |
| K+         | 0.08       | 0.04  | 0.35  | 10.7   | 100.0     | 5          | 13 B                 | W            |
| Precip     | -          | 0.0   | 43.5  | 137.0  | 100.0     | 2          | 15                   | W            |
| Na+        | 0.86       | 0.15  | 2.18  | 117.6  | 100.0     | 0          | 13 A                 | W            |
| SO4-- corr | 0.51       | 0.28  | 2.36  | 69.5   | 100.0     | 0          | 13 A                 | W            |
| SO4--      | 0.58       | 0.37  | 2.39  | 79.3   | 100.0     | 0          | 13 A                 | W            |

SE0012R Aspvreten Sweden

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.23       | 0.06  | 0.44  | 17.6   | 100.0     | 0          | 13 A                 | W            |
| Ca++       | 0.19       | 0.06  | 0.68  | 14.6   | 100.0     | 0          | 13 B                 | W            |
| Cl-        | 0.61       | 0.09  | 1.38  | 47.0   | 100.0     | 0          | 13 A                 | W            |
| Mg++       | 0.065      | 0.040 | 0.110 | 5.0    | 100.0     | 0          | 13 A                 | W            |
| NO3-       | 0.47       | 0.10  | 0.98  | 36.0   | 100.0     | 0          | 13 A                 | W            |
| pH         | 4.70       | 4.26  | 5.46  | 1523.1 | 100.0     | 0          | 13 A                 | W            |
| K+         | 0.09       | 0.04  | 0.18  | 7.3    | 100.0     | 0          | 13 B                 | W            |
| Precip     | -          | 0.0   | 10.1  | 76.9   | 71.1      | 1          | 14                   | W            |
| Na+        | 0.30       | 0.08  | 0.63  | 22.7   | 100.0     | 0          | 13 A                 | W            |
| SO4-- corr | 0.46       | 0.11  | 1.25  | 35.0   | 100.0     | 0          | 13 A                 | W            |
| SO4--      | 0.48       | 0.13  | 1.30  | 37.2   | 100.0     | 0          | 13 A                 | W            |

| SE0012R               |            | Aspvreten |       | Sweden |           |            |              |            |              |
|-----------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| March 1999 - May 1999 |            |           |       |        |           |            |              |            |              |
| Component             | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.45       | 0.10      | 1.22  | 25.2   | 99.6      | 0          | 12           | A          | W            |
| Ca++                  | 0.22       | 0.14      | 0.62  | 12.1   | 99.6      | 0          | 12           | B          | W            |
| Cl-                   | 0.50       | 0.11      | 1.04  | 27.9   | 99.6      | 0          | 12           | A          | W            |
| Mg++                  | 0.068      | 0.040     | 0.160 | 3.8    | 99.6      | 0          | 12           | A          | W            |
| NO3-                  | 0.54       | 0.15      | 1.28  | 30.3   | 99.6      | 0          | 12           | A          | W            |
| pH                    | 4.44       | 3.84      | 5.23  | 2020.0 | 99.8      | 0          | 13           | A          | W            |
| K+                    | 0.09       | 0.06      | 0.16  | 5.2    | 99.6      | 0          | 12           | B          | W            |
| Precip                | -          | 0.0       | 13.1  | 56.2   | 100.0     | 2          | 16           |            | W            |
| Na+                   | 0.31       | 0.06      | 0.62  | 17.2   | 99.6      | 0          | 12           | A          | W            |
| SO4-- corr            | 0.59       | 0.18      | 1.59  | 33.4   | 99.6      | 0          | 12           | A          | W            |
| SO4--                 | 0.62       | 0.19      | 1.64  | 34.8   | 99.6      | 0          | 12           | A          | W            |

| SE0012R                 |            | Aspvreten |       | Sweden |           |            |              |            |              |
|-------------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| June 1999 - August 1999 |            |           |       |        |           |            |              |            |              |
| Component               | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.39       | 0.17      | 0.68  | 45.9   | 99.1      | 0          | 10           | A          | W            |
| Ca++                    | 0.28       | 0.13      | 1.09  | 32.5   | 99.5      | 0          | 11           | B          | W            |
| Cl-                     | 0.30       | 0.00      | 1.78  | 35.2   | 99.5      | 2          | 11           | A          | W            |
| Mg++                    | 0.057      | 0.030     | 0.140 | 6.7    | 99.5      | 0          | 11           | A          | W            |
| NO3-                    | 0.28       | 0.20      | 1.48  | 32.5   | 99.5      | 0          | 11           | A          | W            |
| pH                      | 4.88       | 4.36      | 5.75  | 1549.8 | 100.0     | 0          | 13           | A          | W            |
| K+                      | 0.11       | 0.08      | 0.31  | 13.1   | 99.5      | 0          | 11           | B          | W            |
| Precip                  | -          | 0.0       | 30.8  | 117.2  | 100.0     | 3          | 16           |            | W            |
| Na+                     | 0.12       | 0.06      | 0.33  | 14.6   | 99.5      | 1          | 11           | A          | W            |
| SO4-- corr              | 0.38       | 0.22      | 1.90  | 44.9   | 99.5      | 0          | 11           | A          | W            |
| SO4--                   | 0.41       | 0.24      | 1.93  | 48.5   | 99.5      | 0          | 11           | A          | W            |

| SE0012R                        |            | Aspvreten |       | Sweden |           |            |              |            |              |
|--------------------------------|------------|-----------|-------|--------|-----------|------------|--------------|------------|--------------|
| September 1999 - November 1999 |            |           |       |        |           |            |              |            |              |
| Component                      | W.<br>mean | Min       | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.57       | 0.12      | 1.56  | 41.4   | 99.6      | 0          | 12           | A          | W            |
| Ca++                           | 0.38       | 0.08      | 2.27  | 28.0   | 99.9      | 0          | 13           | B          | W            |
| Cl-                            | 0.82       | 0.15      | 6.11  | 59.8   | 99.9      | 0          | 13           | A          | W            |
| Mg++                           | 0.057      | 0.010     | 0.160 | 4.2    | 99.9      | 1          | 13           | A          | W            |
| NO3-                           | 0.54       | 0.16      | 1.53  | 39.6   | 99.9      | 0          | 13           | A          | W            |
| pH                             | 4.42       | 4.04      | 5.64  | 2784.1 | 100.0     | 0          | 14           | A          | W            |
| K+                             | 0.11       | 0.04      | 0.49  | 8.1    | 99.9      | 5          | 13           | B          | W            |
| Precip                         | -          | 0.0       | 25.0  | 73.1   | 100.0     | 1          | 15           |            | W            |
| Na+                            | 0.31       | 0.06      | 0.92  | 22.5   | 99.9      | 1          | 13           | A          | W            |
| SO4-- corr                     | 0.75       | 0.14      | 2.75  | 54.9   | 99.9      | 0          | 13           | A          | W            |
| SO4--                          | 0.79       | 0.18      | 2.85  | 57.6   | 99.9      | 0          | 13           | A          | W            |

| SK0002R                       |            | Chopok |       | Slovakia |           |            |              |            |              |
|-------------------------------|------------|--------|-------|----------|-----------|------------|--------------|------------|--------------|
| December 1998 - February 1999 |            |        |       |          |           |            |              |            |              |
| Component                     | W.<br>mean | Min    | Max   | Dep      | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                          | 0.35       | 0.01   | 1.14  | 76.8     | 86.8      | 0          | 42           | A          |              |
| Ca++                          | 0.28       | 0.05   | 1.14  | 61.2     | 86.8      | 0          | 42           | A          |              |
| Cl-                           | 0.54       | 0.09   | 2.61  | 116.5    | 86.8      | 0          | 42           | A          |              |
| Mg++                          | 0.040      | 0.007  | 0.148 | 8.6      | 86.8      | 0          | 42           | A          |              |
| NO3-                          | 0.44       | 0.11   | 1.35  | 95.5     | 86.8      | 0          | 42           | A          |              |
| pH                            | 4.49       | 3.90   | 5.63  | 7048.5   | 86.8      | 0          | 42           | A          |              |
| K+                            | 0.30       | 0.06   | 1.34  | 64.4     | 86.8      | 0          | 42           | B          |              |
| Precip                        | -          | 0.0    | 12.2  | 216.2    | 100.0     | 37         | 90           |            |              |
| Na+                           | 0.39       | 0.10   | 1.21  | 84.4     | 86.8      | 0          | 42           | A          |              |
| SO4-- corr                    | 0.79       | 0.19   | 2.60  | 171.4    | 86.8      | 0          | 42           | A          |              |
| SO4--                         | 0.82       | 0.20   | 2.62  | 177.9    | 86.8      | 0          | 42           | A          |              |

SK0002R Chopok Slovakia

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.75       | 0.02  | 2.28  | 155.0  | 96.4      | 0          | 40                   | A            |
| Ca++       | 0.49       | 0.13  | 2.08  | 101.7  | 96.4      | 0          | 40                   | A            |
| Cl-        | 0.41       | 0.09  | 2.09  | 84.8   | 96.4      | 0          | 40                   | A            |
| Mg++       | 0.097      | 0.033 | 0.301 | 20.1   | 96.4      | 0          | 40                   | A            |
| NO3-       | 0.63       | 0.14  | 2.98  | 131.4  | 96.4      | 0          | 40                   | A            |
| pH         | 4.33       | 3.79  | 5.54  | 9703.5 | 96.4      | 0          | 40                   | A            |
| K+         | 0.37       | 0.08  | 1.74  | 77.0   | 96.4      | 0          | 40                   | B            |
| Precip     | -          | 0.1   | 12.3  | 207.3  | 98.9      | 39         | 91                   |              |
| Na+        | 0.25       | 0.08  | 1.49  | 52.4   | 96.4      | 0          | 40                   | A            |
| SO4-- corr | 1.25       | 0.26  | 4.72  | 260.2  | 96.4      | 0          | 40                   | A            |
| SO4--      | 1.28       | 0.27  | 4.76  | 265.8  | 96.4      | 0          | 40                   | A            |

SK0002R Chopok Slovakia

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.50       | 0.05  | 1.99  | 237.6   | 98.2      | 0          | 39                   | A            |
| Ca++       | 0.26       | 0.06  | 2.00  | 121.3   | 98.2      | 0          | 39                   | A            |
| Cl-        | 0.14       | 0.04  | 1.12  | 65.7    | 98.2      | 0          | 39                   | A            |
| Mg++       | 0.073      | 0.011 | 0.680 | 34.4    | 98.2      | 0          | 39                   | A            |
| NO3-       | 0.26       | 0.06  | 1.84  | 121.6   | 98.2      | 0          | 39                   | A            |
| pH         | 4.47       | 3.86  | 6.83  | 15999.2 | 98.2      | 0          | 39                   | A            |
| K+         | 0.15       | 0.05  | 0.73  | 70.0    | 98.2      | 0          | 39                   | B            |
| Precip     | -          | 0.1   | 39.0  | 472.5   | 100.0     | 43         | 92                   |              |
| Na+        | 0.10       | 0.02  | 0.89  | 47.3    | 98.2      | 0          | 39                   | A            |
| SO4-- corr | 0.89       | 0.23  | 4.59  | 420.6   | 98.2      | 0          | 39                   | A            |
| SO4--      | 0.90       | 0.24  | 4.69  | 425.2   | 98.2      | 0          | 39                   | A            |

SK0002R Chopok Slovakia

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.77       | 0.02  | 2.47  | 173.8  | 97.2      | 0          | 43                   | A            |
| Ca++       | 0.57       | 0.10  | 2.91  | 129.2  | 97.2      | 0          | 43                   | A            |
| Cl-        | 0.62       | 0.11  | 2.66  | 138.8  | 97.2      | 0          | 43                   | A            |
| Mg++       | 0.166      | 0.014 | 0.820 | 37.4   | 97.2      | 0          | 43                   | A            |
| NO3-       | 0.51       | 0.10  | 2.97  | 114.5  | 97.2      | 0          | 43                   | A            |
| pH         | 4.43       | 3.86  | 6.11  | 8372.1 | 94.2      | 0          | 42                   | A            |
| K+         | 0.28       | 0.05  | 0.94  | 63.0   | 97.2      | 0          | 43                   | B            |
| Precip     | -          | 0.1   | 42.4  | 225.6  | 100.0     | 41         | 91                   |              |
| Na+        | 0.44       | 0.07  | 1.70  | 100.0  | 97.2      | 0          | 43                   | A            |
| SO4-- corr | 1.57       | 0.25  | 5.58  | 353.7  | 96.9      | 0          | 42                   | A            |
| SO4--      | 1.61       | 0.26  | 5.62  | 362.6  | 96.9      | 0          | 42                   | A            |

SK0004R Stara Lesna Slovakia

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.23       | 0.01  | 0.78  | 15.0   | 76.7      | 0          | 16                   | A            |
| Ca++       | 0.21       | 0.08  | 0.44  | 13.3   | 76.7      | 0          | 16                   | A            |
| Cl-        | 0.32       | 0.08  | 0.71  | 20.8   | 76.7      | 0          | 16                   | A            |
| Mg++       | 0.045      | 0.014 | 0.250 | 2.9    | 76.7      | 0          | 16                   | A            |
| NO3-       | 0.46       | 0.21  | 1.07  | 29.7   | 76.7      | 0          | 16                   | A            |
| pH         | 4.17       | 3.67  | 5.37  | 4351.4 | 76.7      | 0          | 16                   | A            |
| K+         | 0.19       | 0.04  | 0.54  | 12.1   | 76.7      | 0          | 16                   | B            |
| Precip     | -          | 0.0   | 7.2   | 64.3   | 100.0     | 52         | 90                   |              |
| Na+        | 0.24       | 0.06  | 1.02  | 15.7   | 76.7      | 0          | 16                   | A            |
| SO4-- corr | 0.64       | 0.30  | 1.87  | 41.3   | 76.7      | 0          | 16                   | A            |
| SO4--      | 0.66       | 0.33  | 1.89  | 42.6   | 76.7      | 0          | 16                   | A            |

SK0004R Stara Lesna Slovakia

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.57       | 0.06  | 1.21  | 94.8   | 94.6      | 0          | 24           | A          |              |
| Ca++       | 0.50       | 0.14  | 1.27  | 83.3   | 94.6      | 0          | 24           | A          |              |
| Cl-        | 0.32       | 0.11  | 1.85  | 53.1   | 94.6      | 0          | 24           | A          |              |
| Mg++       | 0.099      | 0.030 | 0.256 | 16.3   | 94.6      | 0          | 24           | A          |              |
| NO3-       | 0.40       | 0.14  | 1.10  | 65.3   | 94.6      | 0          | 24           | A          |              |
| pH         | 4.55       | 4.03  | 5.43  | 4666.9 | 94.6      | 0          | 24           | A          |              |
| K+         | 0.25       | 0.08  | 1.04  | 40.9   | 94.6      | 0          | 24           | B          |              |
| Precip     | -          | 0.1   | 18.0  | 164.8  | 100.0     | 49         | 92           |            |              |
| Na+        | 0.22       | 0.05  | 1.43  | 36.0   | 94.6      | 0          | 24           | A          |              |
| SO4-- corr | 1.07       | 0.37  | 1.87  | 177.0  | 94.6      | 0          | 24           | A          |              |
| SO4--      | 1.10       | 0.38  | 1.88  | 180.5  | 94.6      | 0          | 24           | A          |              |

SK0004R Stara Lesna Slovakia

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.47       | 0.01  | 1.32  | 164.5  | 99.1      | 0          | 38           | A          |              |
| Ca++       | 0.35       | 0.08  | 1.37  | 122.0  | 99.1      | 0          | 38           | A          |              |
| Cl-        | 0.20       | 0.05  | 1.55  | 70.5   | 99.1      | 0          | 38           | A          |              |
| Mg++       | 0.053      | 0.012 | 0.297 | 18.6   | 99.1      | 0          | 38           | A          |              |
| NO3-       | 0.30       | 0.04  | 1.06  | 104.2  | 99.1      | 0          | 38           | A          |              |
| pH         | 4.61       | 4.12  | 6.39  | 8591.9 | 99.1      | 0          | 38           | A          |              |
| K+         | 0.16       | 0.03  | 0.59  | 53.9   | 99.1      | 0          | 38           | B          |              |
| Precip     | -          | 0.1   | 59.6  | 348.8  | 100.0     | 41         | 92           |            |              |
| Na+        | 0.10       | 0.03  | 0.87  | 36.6   | 99.1      | 0          | 38           | A          |              |
| SO4-- corr | 0.83       | 0.19  | 2.40  | 289.2  | 99.1      | 0          | 38           | A          |              |
| SO4--      | 0.84       | 0.20  | 2.42  | 294.0  | 99.1      | 0          | 38           | A          |              |

SK0004R Stara Lesna Slovakia

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.48       | 0.05  | 3.52  | 50.5   | 94.7      | 0          | 21           | A          |              |
| Ca++       | 0.37       | 0.07  | 1.57  | 39.2   | 94.7      | 0          | 21           | A          |              |
| Cl-        | 0.38       | 0.05  | 1.23  | 40.3   | 94.7      | 0          | 21           | A          |              |
| Mg++       | 0.074      | 0.011 | 0.335 | 7.7    | 94.7      | 0          | 21           | A          |              |
| NO3-       | 0.45       | 0.06  | 2.86  | 47.2   | 94.7      | 0          | 21           | A          |              |
| pH         | 4.43       | 3.99  | 5.63  | 3902.8 | 94.7      | 0          | 21           | A          |              |
| K+         | 0.20       | 0.05  | 1.48  | 20.6   | 94.7      | 0          | 21           | B          |              |
| Precip     | -          | 0.1   | 21.2  | 104.8  | 100.0     | 61         | 91           |            |              |
| Na+        | 0.25       | 0.04  | 1.56  | 26.6   | 94.7      | 0          | 21           | A          |              |
| SO4-- corr | 0.96       | 0.06  | 5.68  | 100.6  | 94.7      | 0          | 21           | A          |              |
| SO4--      | 0.98       | 0.07  | 5.75  | 103.1  | 94.7      | 0          | 21           | A          |              |

SK0005R Liesek Slovakia

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.43       | 0.14  | 1.31  | 42.8   | 77.0      | 0          | 20           | A          |              |
| Ca++       | 0.54       | 0.27  | 1.78  | 53.1   | 77.0      | 0          | 20           | A          |              |
| Cl-        | 0.89       | 0.27  | 1.83  | 88.2   | 77.0      | 0          | 20           | A          |              |
| Mg++       | 0.096      | 0.044 | 0.329 | 9.4    | 77.0      | 0          | 20           | A          |              |
| NO3-       | 0.68       | 0.29  | 1.79  | 66.9   | 77.0      | 0          | 20           | A          |              |
| pH         | 4.48       | 3.92  | 6.06  | 3283.5 | 77.0      | 0          | 20           | A          |              |
| K+         | 0.44       | 0.14  | 1.93  | 43.4   | 77.0      | 0          | 20           | B          |              |
| Precip     | -          | 0.0   | 8.4   | 98.7   | 100.0     | 49         | 90           |            |              |
| Na+        | 0.64       | 0.18  | 2.25  | 63.3   | 77.0      | 0          | 20           | A          |              |
| SO4-- corr | 0.93       | 0.44  | 2.40  | 91.9   | 77.0      | 0          | 20           | A          |              |
| SO4--      | 0.98       | 0.47  | 2.50  | 96.9   | 77.0      | 0          | 20           | A          |              |

SK0005R Liesek Slovakia

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.74       | 0.30  | 2.72  | 88.8   | 93.4      | 0          | 26                   | A            |
| Ca++       | 0.66       | 0.15  | 2.79  | 79.8   | 93.4      | 0          | 26                   | A            |
| Cl-        | 0.43       | 0.06  | 2.78  | 52.4   | 93.4      | 0          | 26                   | A            |
| Mg++       | 0.113      | 0.042 | 0.333 | 13.7   | 93.4      | 0          | 26                   | A            |
| NO3-       | 0.68       | 0.17  | 3.24  | 81.5   | 93.4      | 0          | 26                   | A            |
| pH         | 4.44       | 3.82  | 5.57  | 4366.5 | 94.5      | 0          | 27                   | A            |
| K+         | 0.31       | 0.10  | 0.83  | 37.4   | 93.4      | 0          | 26                   | B            |
| Precip     | -          | 0.1   | 20.1  | 120.7  | 100.0     | 49         | 92                   |              |
| Na+        | 0.31       | 0.10  | 1.38  | 37.6   | 93.4      | 0          | 26                   | A            |
| SO4-- corr | 1.18       | 0.13  | 4.70  | 142.9  | 93.4      | 0          | 26                   | A            |
| SO4--      | 1.22       | 0.16  | 4.92  | 146.8  | 93.4      | 0          | 26                   | A            |

SK0005R Liesek Slovakia

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.55       | 0.04  | 1.66  | 229.0   | 97.6      | 0          | 33                   | A            |
| Ca++       | 0.39       | 0.02  | 1.38  | 161.3   | 97.6      | 0          | 33                   | A            |
| Cl-        | 0.22       | 0.05  | 1.20  | 92.3    | 97.6      | 0          | 33                   | A            |
| Mg++       | 0.063      | 0.011 | 0.220 | 26.2    | 97.6      | 0          | 33                   | A            |
| NO3-       | 0.28       | 0.10  | 1.15  | 116.0   | 97.6      | 0          | 33                   | A            |
| pH         | 4.52       | 3.79  | 6.13  | 12468.9 | 97.6      | 0          | 33                   | A            |
| K+         | 0.19       | 0.05  | 0.94  | 80.5    | 97.6      | 0          | 33                   | B            |
| Precip     | -          | 0.1   | 38.7  | 415.8   | 100.0     | 44         | 92                   |              |
| Na+        | 0.14       | 0.01  | 1.23  | 59.1    | 97.6      | 0          | 33                   | A            |
| SO4-- corr | 0.87       | 0.31  | 2.12  | 360.4   | 97.6      | 0          | 33                   | A            |
| SO4--      | 0.88       | 0.33  | 2.21  | 366.7   | 97.6      | 0          | 33                   | A            |

SK0005R Liesek Slovakia

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.31       | 0.05  | 1.21  | 65.8   | 96.8      | 0          | 27                   | A            |
| Ca++       | 0.24       | 0.10  | 2.64  | 50.8   | 96.8      | 0          | 27                   | A            |
| Cl-        | 0.35       | 0.06  | 1.35  | 75.8   | 96.8      | 0          | 27                   | A            |
| Mg++       | 0.045      | 0.021 | 0.245 | 9.6    | 96.8      | 0          | 27                   | A            |
| NO3-       | 0.36       | 0.15  | 1.56  | 76.3   | 96.8      | 0          | 27                   | A            |
| pH         | 4.34       | 3.91  | 5.73  | 9824.2 | 96.8      | 0          | 27                   | A            |
| K+         | 0.13       | 0.03  | 0.63  | 28.2   | 96.8      | 0          | 27                   | B            |
| Precip     | -          | 0.1   | 38.1  | 213.4  | 100.0     | 48         | 91                   |              |
| Na+        | 0.16       | 0.04  | 0.90  | 33.8   | 96.8      | 0          | 27                   | A            |
| SO4-- corr | 0.61       | 0.18  | 2.76  | 129.7  | 96.8      | 0          | 27                   | A            |
| SO4--      | 0.63       | 0.20  | 2.78  | 133.5  | 96.8      | 0          | 27                   | A            |

SK0006R Starina Slovakia

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep     | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|---------|-----------|------------|----------------------|--------------|
| NH4+       | 0.44       | 0.01  | 0.97  | 81.4    | 74.6      | 0          | 27                   | A            |
| Ca++       | 0.26       | 0.08  | 0.99  | 48.2    | 74.6      | 0          | 27                   | A            |
| Cl-        | 0.55       | 0.04  | 1.70  | 101.0   | 74.6      | 0          | 27                   | A            |
| Mg++       | 0.049      | 0.016 | 0.124 | 9.0     | 74.6      | 0          | 27                   | A            |
| NO3-       | 0.91       | 0.04  | 2.16  | 166.4   | 74.6      | 0          | 27                   | A            |
| pH         | 4.25       | 3.71  | 5.41  | 10399.1 | 74.6      | 0          | 27                   | A            |
| K+         | 0.27       | 0.08  | 0.84  | 49.9    | 74.6      | 0          | 27                   | B            |
| Precip     | -          | 0.0   | 12.1  | 183.2   | 100.0     | 43         | 90                   |              |
| Na+        | 0.34       | 0.12  | 1.27  | 62.8    | 74.6      | 0          | 27                   | A            |
| SO4-- corr | 1.10       | 0.09  | 3.97  | 200.9   | 74.6      | 0          | 27                   | A            |
| SO4--      | 1.13       | 0.10  | 4.08  | 206.3   | 74.6      | 0          | 27                   | A            |

|                       |            |          |       |        |           |            |              |            |              |
|-----------------------|------------|----------|-------|--------|-----------|------------|--------------|------------|--------------|
| SK0006R               | Starina    | Slovakia |       |        |           |            |              |            |              |
| March 1999 - May 1999 |            |          |       |        |           |            |              |            |              |
| Component             | W.<br>mean | Min      | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.51       | 0.07     | 1.32  | 71.4   | 99.8      | 0          | 32           | A          |              |
| Ca++                  | 0.52       | 0.11     | 1.57  | 72.2   | 99.8      | 0          | 32           | A          |              |
| Cl-                   | 0.33       | 0.14     | 0.97  | 45.4   | 99.8      | 0          | 32           | A          |              |
| Mg++                  | 0.092      | 0.027    | 0.263 | 12.8   | 99.8      | 0          | 32           | A          |              |
| NO3-                  | 0.45       | 0.14     | 2.00  | 62.4   | 99.8      | 0          | 32           | A          |              |
| pH                    | 4.44       | 3.77     | 5.66  | 5061.0 | 99.8      | 0          | 32           | A          |              |
| K+                    | 0.20       | 0.10     | 0.78  | 28.1   | 99.8      | 0          | 32           | B          |              |
| Precip                | -          | 0.1      | 14.0  | 139.3  | 100.0     | 57         | 92           |            |              |
| Na+                   | 0.21       | 0.06     | 0.73  | 29.5   | 99.8      | 0          | 32           | A          |              |
| SO4-- corr            | 0.92       | 0.41     | 2.90  | 127.8  | 99.8      | 0          | 32           | A          |              |
| SO4--                 | 0.94       | 0.42     | 2.93  | 130.5  | 99.8      | 0          | 32           | A          |              |

|                         |            |       |          |        |           |            |              |            |              |
|-------------------------|------------|-------|----------|--------|-----------|------------|--------------|------------|--------------|
| SK0006R                 | Starina    |       | Slovakia |        |           |            |              |            |              |
| June 1999 - August 1999 |            |       |          |        |           |            |              |            |              |
| Component               | W.<br>mean | Min   | Max      | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                    | 0.40       | 0.01  | 1.75     | 112.2  | 99.1      | 0          | 24           | A          |              |
| Ca++                    | 0.31       | 0.07  | 1.57     | 87.4   | 99.1      | 0          | 24           | A          |              |
| Cl-                     | 0.21       | 0.04  | 1.71     | 58.3   | 99.1      | 0          | 24           | A          |              |
| Mg++                    | 0.068      | 0.018 | 0.230    | 19.1   | 99.1      | 0          | 24           | A          |              |
| NO3-                    | 0.25       | 0.06  | 0.64     | 71.3   | 99.1      | 0          | 24           | A          |              |
| pH                      | 4.60       | 4.15  | 6.34     | 7119.6 | 99.1      | 0          | 24           | A          |              |
| K+                      | 0.20       | 0.03  | 0.98     | 55.9   | 99.1      | 0          | 24           | B          |              |
| Precip                  | -          | 0.1   | 42.5     | 282.1  | 100.0     | 63         | 92           |            |              |
| Na+                     | 0.14       | 0.02  | 1.71     | 40.1   | 99.1      | 0          | 24           | A          |              |
| SO4-- corr              | 0.70       | 0.29  | 1.97     | 198.5  | 99.1      | 0          | 24           | A          |              |
| SO4--                   | 0.72       | 0.29  | 2.08     | 202.0  | 99.1      | 0          | 24           | A          |              |

|                                |            |       |          |        |           |            |              |            |              |
|--------------------------------|------------|-------|----------|--------|-----------|------------|--------------|------------|--------------|
| SK0006R                        | Starina    |       | Slovakia |        |           |            |              |            |              |
| September 1999 - November 1999 |            |       |          |        |           |            |              |            |              |
| Component                      | W.<br>mean | Min   | Max      | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                           | 0.25       | 0.02  | 1.16     | 39.0   | 98.7      | 0          | 29           | A          |              |
| Ca++                           | 0.22       | 0.05  | 1.71     | 34.5   | 98.7      | 0          | 29           | A          |              |
| Cl-                            | 0.26       | 0.05  | 1.95     | 41.1   | 98.7      | 0          | 29           | A          |              |
| Mg++                           | 0.043      | 0.008 | 0.219    | 6.7    | 98.7      | 0          | 29           | A          |              |
| NO3-                           | 0.33       | 0.11  | 1.71     | 52.5   | 98.7      | 0          | 29           | A          |              |
| pH                             | 4.41       | 3.79  | 5.98     | 6121.2 | 98.7      | 0          | 29           | A          |              |
| K+                             | 0.14       | 0.05  | 0.86     | 22.9   | 98.7      | 0          | 29           | B          |              |
| Precip                         | -          | 0.1   | 20.0     | 158.3  | 100.0     | 54         | 91           |            |              |
| Na+                            | 0.16       | 0.04  | 1.22     | 25.7   | 98.7      | 0          | 29           | A          |              |
| SO4-- corr                     | 0.62       | 0.19  | 3.13     | 98.9   | 98.7      | 0          | 29           | A          |              |
| SO4--                          | 0.64       | 0.21  | 3.19     | 101.4  | 98.7      | 0          | 29           | A          |              |

|                               |            |     |        |     |           |            |                      |              |  |
|-------------------------------|------------|-----|--------|-----|-----------|------------|----------------------|--------------|--|
| TR0001R                       | Cubuk II   |     | Turkey |     |           |            |                      |              |  |
| December 1998 - February 1999 |            |     |        |     |           |            |                      |              |  |
| Component                     | W.<br>mean | Min | Max    | Dep | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |  |
| Precip                        | -          | 0.0 | 0.0    | 0.0 | 74.4      | 67         | 67                   |              |  |

|                       |            |        |       |       |           |            |              |            |              |
|-----------------------|------------|--------|-------|-------|-----------|------------|--------------|------------|--------------|
| TR0001R               | Cubuk II   | Turkey |       |       |           |            |              |            |              |
| March 1999 - May 1999 |            |        |       |       |           |            |              |            |              |
| Component             | W.<br>mean | Min    | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
| NH4+                  | 0.88       | 0.54   | 1.25  | 57.7  | 99.6      | 0          | 18           | A          |              |
| Ca++                  | 3.27       | 0.82   | 43.79 | 214.2 | 94.9      | 0          | 16           | B          |              |
| Cl-                   | 2.30       | 0.71   | 4.61  | 150.6 | 99.2      | 0          | 17           | A          |              |
| Mg++                  | 0.410      | 0.080  | 0.840 | 26.8  | 99.2      | 0          | 17           | A          |              |
| NO3-                  | 0.67       | 0.15   | 5.17  | 43.6  | 99.2      | 0          | 17           | A          |              |
| pH                    | 5.32       | 4.17   | 6.73  | 311.0 | 100.0     | 0          | 19           | A          |              |
| K+                    | 0.84       | 0.39   | 1.22  | 55.1  | 96.8      | 0          | 15           | D          |              |
| Precip                | -          | 0.0    | 9.5   | 65.4  | 100.0     | 73         | 92           |            |              |
| Na+                   | 0.83       | 0.27   | 4.83  | 54.5  | 99.6      | 0          | 18           | A          |              |
| SO4-- corr            | 1.28       | 0.13   | 4.54  | 84.1  | 99.2      | 0          | 17           | A          |              |
| SO4--                 | 1.49       | 0.48   | 4.94  | 97.3  | 99.2      | 0          | 17           | A          |              |

TR0001R Cubuk II Turkey

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.54       | 0.13  | 1.20  | 68.3  | 99.1      | 0          | 21                   | A            |
| Ca++       | 1.38       | 0.74  | 4.98  | 174.3 | 99.1      | 0          | 21                   | B            |
| Cl-        | 0.89       | 0.32  | 5.47  | 112.6 | 98.5      | 0          | 20                   | A            |
| Mg++       | 0.172      | 0.070 | 0.990 | 21.6  | 99.1      | 0          | 21                   | A            |
| NO3-       | 0.45       | 0.12  | 1.24  | 56.1  | 98.5      | 0          | 20                   | A            |
| pH         | 5.82       | 4.30  | 6.63  | 192.0 | 100.0     | 0          | 24                   | A            |
| K+         | 0.53       | 0.21  | 2.21  | 67.0  | 98.5      | 0          | 20                   | D            |
| Precip     | -          | 0.0   | 21.8  | 125.8 | 100.0     | 68         | 92                   |              |
| Na+        | 0.61       | 0.03  | 7.22  | 77.3  | 99.1      | 0          | 21                   | A            |
| SO4-- corr | 0.87       | 0.39  | 4.10  | 109.3 | 98.5      | 0          | 20                   | A            |
| SO4--      | 0.92       | 0.41  | 4.32  | 116.3 | 98.5      | 0          | 20                   | A            |

TR0001R Cubuk II Turkey

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|----------------------|--------------|
| NH4+       | 0.33       | 0.14  | 0.78  | 9.1  | 89.2      | 0          | 6                    | A            |
| Ca++       | 1.66       | 0.69  | 4.56  | 45.0 | 95.8      | 0          | 7                    | B            |
| Cl-        | 0.87       | 0.24  | 2.62  | 23.5 | 95.8      | 0          | 7                    | A            |
| Mg++       | 0.163      | 0.080 | 0.380 | 4.4  | 95.8      | 0          | 7                    | A            |
| NO3-       | 0.29       | 0.10  | 0.52  | 7.8  | 95.8      | 0          | 7                    | A            |
| pH         | 5.90       | 4.81  | 7.08  | 34.4 | 100.0     | 0          | 10                   | A            |
| K+         | 0.32       | 0.10  | 1.33  | 8.8  | 95.8      | 0          | 7                    | D            |
| Precip     | -          | 0.0   | 7.6   | 27.1 | 100.0     | 81         | 91                   |              |
| Na+        | 0.90       | 0.20  | 7.75  | 24.4 | 95.8      | 0          | 7                    | A            |
| SO4-- corr | 0.93       | 0.26  | 2.11  | 25.2 | 95.8      | 0          | 7                    | A            |
| SO4--      | 0.99       | 0.28  | 2.14  | 26.7 | 95.8      | 0          | 7                    | A            |

YU0005R Kamenicki Vis Yugoslavia

December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|----------------------|--------------|
| NH4+       | 0.65       | 0.09  | 1.47  | 106.2  | 97.3      | 0          | 31                   | A            |
| Ca++       | 1.13       | 0.50  | 4.06  | 184.6  | 94.7      | 0          | 26                   | B            |
| Cl-        | 0.73       | 0.08  | 2.53  | 118.4  | 91.3      | 0          | 23                   | C            |
| Mg++       | 0.158      | 0.050 | 0.690 | 25.7   | 94.7      | 0          | 26                   | B            |
| NO3-       | 0.83       | 0.55  | 1.11  | 135.3  | 97.3      | 0          | 31                   | B            |
| pH         | 4.86       | 3.86  | 6.97  | 2238.5 | 97.3      | 0          | 31                   | A            |
| K+         | 0.23       | 0.06  | 0.75  | 37.4   | 94.7      | 0          | 26                   | A            |
| Precip     | -          | 0.0   | 26.0  | 162.9  | 97.8      | 53         | 88                   |              |
| Na+        | 1.12       | 0.11  | 4.20  | 181.7  | 94.7      | 0          | 26                   | A            |
| SO4-- corr | 2.04       | 0.42  | 5.66  | 332.9  | 95.6      | 0          | 27                   | A            |
| SO4--      | 2.15       | 0.63  | 7.23  | 350.5  | 97.3      | 0          | 31                   | A            |

YU0005R Kamenicki Vis Yugoslavia

March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.72       | 0.06  | 1.64  | 42.2  | 100.0     | 0          | 18                   | A            |
| Ca++       | 1.94       | 0.37  | 9.61  | 114.0 | 63.7      | 0          | 9                    | B            |
| Cl-        | 0.74       | 0.08  | 2.42  | 43.3  | 69.8      | 0          | 9                    | C            |
| Mg++       | 0.271      | 0.060 | 1.190 | 15.9  | 63.7      | 0          | 9                    | B            |
| NO3-       | 0.94       | 0.37  | 1.10  | 55.3  | 100.0     | 0          | 18                   | B            |
| pH         | 5.47       | 4.66  | 7.27  | 199.8 | 100.0     | 0          | 18                   | A            |
| K+         | 0.28       | 0.10  | 1.10  | 16.6  | 63.7      | 0          | 9                    | A            |
| Precip     | -          | 0.0   | 10.5  | 58.7  | 96.7      | 71         | 89                   |              |
| Na+        | 0.93       | 0.36  | 2.76  | 54.7  | 63.7      | 0          | 9                    | A            |
| SO4-- corr | 1.32       | -0.02 | 3.36  | 77.3  | 74.3      | 1          | 11                   | A            |
| SO4--      | 1.46       | 0.16  | 4.16  | 85.7  | 100.0     | 0          | 18                   | A            |

YU0005R Kamenicki Vis Yugoslavia

June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep  | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.74       | 0.74  | 0.74  | 15.2 | 100.0     | 0          | 1            | A          |              |
| Ca++       | 1.14       | 1.14  | 1.14  | 23.4 | 100.0     | 0          | 1            | B          |              |
| Cl-        | 0.20       | 0.20  | 0.20  | 4.1  | 100.0     | 0          | 1            | C          |              |
| Mg++       | 0.170      | 0.170 | 0.170 | 3.5  | 100.0     | 0          | 1            | B          |              |
| NO3-       | 0.82       | 0.82  | 0.82  | 16.8 | 100.0     | 0          | 1            | B          |              |
| pH         | 5.38       | 5.38  | 5.38  | 85.5 | 100.0     | 0          | 1            | A          |              |
| K+         | 0.16       | 0.16  | 0.16  | 3.3  | 100.0     | 0          | 1            | A          |              |
| Precip     | -          | 0.0   | 20.5  | 20.5 | 96.7      | 88         | 89           |            |              |
| Na+        | 0.49       | 0.49  | 0.49  | 10.0 | 100.0     | 0          | 1            | A          |              |
| SO4-- corr | 0.92       | 0.92  | 0.92  | 18.8 | 100.0     | 0          | 1            | A          |              |
| SO4--      | 0.96       | 0.96  | 0.96  | 19.7 | 100.0     | 0          | 1            | A          |              |

YU0005R Kamenicki Vis Yugoslavia

September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.79       | 0.19  | 1.64  | 91.7  | 100.0     | 0          | 19           | A          |              |
| Ca++       | 1.59       | 0.16  | 5.85  | 183.4 | 97.1      | 0          | 15           | B          |              |
| Cl-        | 0.84       | 0.20  | 2.83  | 97.1  | 87.0      | 0          | 12           | C          |              |
| Mg++       | 0.356      | 0.060 | 1.030 | 41.2  | 97.1      | 0          | 15           | B          |              |
| NO3-       | 0.53       | 0.23  | 0.97  | 61.4  | 99.1      | 0          | 18           | B          |              |
| pH         | 6.09       | 5.37  | 7.15  | 94.2  | 100.0     | 0          | 19           | A          |              |
| K+         | 0.63       | 0.03  | 1.68  | 72.8  | 97.1      | 0          | 15           | A          |              |
| Precip     | -          | 0.0   | 24.3  | 115.7 | 96.7      | 69         | 88           |            |              |
| Na+        | 0.83       | 0.13  | 2.04  | 95.9  | 97.1      | 0          | 15           | A          |              |
| SO4-- corr | 1.36       | 0.46  | 3.99  | 157.5 | 97.8      | 0          | 16           | A          |              |
| SO4--      | 1.44       | 0.49  | 4.16  | 166.5 | 100.0     | 0          | 19           | A          |              |

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December 1998 - February 1999

| Component  | W.<br>mean | Min   | Max   | Dep    | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|--------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.43       | 0.12  | 1.18  | 135.4  | 99.4      | 0          | 32           | A          |              |
| Ca++       | 0.62       | 0.09  | 29.36 | 192.4  | 99.0      | 0          | 31           | B          |              |
| Cl-        | 0.73       | 0.08  | 4.18  | 227.4  | 96.4      | 0          | 26           | C          |              |
| Mg++       | 0.099      | 0.030 | 1.160 | 30.8   | 99.0      | 0          | 31           | B          |              |
| NO3-       | 0.67       | 0.45  | 1.05  | 209.6  | 99.4      | 0          | 32           | B          |              |
| pH         | 5.42       | 5.18  | 8.09  | 1181.2 | 99.4      | 0          | 32           | A          |              |
| K+         | 0.16       | 0.04  | 2.96  | 48.7   | 99.0      | 0          | 31           | A          |              |
| Precip     | -          | 0.0   | 49.6  | 312.2  | 97.8      | 52         | 88           |            |              |
| Na+        | 0.62       | 0.12  | 6.48  | 194.0  | 99.0      | 0          | 31           | A          |              |
| SO4-- corr | 0.70       | 0.11  | 2.17  | 220.0  | 99.0      | 0          | 31           | A          |              |
| SO4--      | 0.75       | 0.16  | 2.71  | 234.7  | 99.4      | 0          | 32           | A          |              |

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March 1999 - May 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num<br>sampl | QA<br>flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|--------------|------------|--------------|
| NH4+       | 0.60       | 0.27  | 1.58  | 131.9 | 100.0     | 0          | 29           | A          |              |
| Ca++       | 1.68       | 0.38  | 4.69  | 368.0 | 100.0     | 0          | 29           | B          |              |
| Cl-        | 1.05       | 0.05  | 4.02  | 229.9 | 99.5      | 0          | 28           | C          |              |
| Mg++       | 0.152      | 0.030 | 0.400 | 33.4  | 100.0     | 0          | 29           | B          |              |
| NO3-       | 0.76       | 0.64  | 1.12  | 166.6 | 100.0     | 0          | 29           | B          |              |
| pH         | 6.33       | 5.56  | 7.05  | 101.7 | 100.0     | 0          | 29           | A          |              |
| K+         | 0.47       | 0.08  | 2.47  | 104.3 | 100.0     | 0          | 29           | A          |              |
| Precip     | -          | 0.0   | 22.8  | 219.3 | 96.7      | 60         | 89           |            |              |
| Na+        | 0.89       | 0.28  | 2.30  | 194.3 | 100.0     | 0          | 29           | A          |              |
| SO4-- corr | 1.41       | 0.22  | 5.91  | 309.7 | 100.0     | 0          | 29           | A          |              |
| SO4--      | 1.48       | 0.27  | 6.07  | 325.1 | 100.0     | 0          | 29           | A          |              |

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June 1999 - August 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.77       | 0.19  | 1.68  | 181.2 | 100.0     | 0          | 26                   | A            |
| Ca++       | 1.29       | 0.35  | 4.60  | 301.8 | 98.5      | 0          | 24                   | B            |
| Cl-        | 0.88       | 0.14  | 5.21  | 205.7 | 98.5      | 0          | 25                   | C            |
| Mg++       | 0.266      | 0.060 | 1.210 | 62.1  | 98.5      | 0          | 24                   | B            |
| NO3-       | 0.44       | 0.13  | 1.07  | 104.0 | 100.0     | 0          | 26                   | B            |
| pH         | 5.59       | 4.66  | 7.73  | 595.3 | 100.0     | 0          | 26                   | A            |
| K+         | 0.65       | 0.10  | 4.45  | 151.4 | 92.3      | 0          | 23                   | A            |
| Precip     | -          | 0.0   | 23.0  | 233.9 | 96.7      | 63         | 89                   |              |
| Na+        | 0.72       | 0.10  | 2.75  | 168.5 | 98.5      | 0          | 24                   | A            |
| SO4-- corr | 1.28       | 0.43  | 4.45  | 299.1 | 100.0     | 0          | 26                   | A            |
| SO4--      | 1.34       | 0.49  | 4.69  | 313.6 | 100.0     | 0          | 26                   | A            |

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September 1999 - November 1999

| Component  | W.<br>mean | Min   | Max   | Dep   | %<br>anal | Num<br>bel | Num QA<br>sampl flag | Samp<br>flag |
|------------|------------|-------|-------|-------|-----------|------------|----------------------|--------------|
| NH4+       | 0.38       | 0.06  | 1.79  | 175.3 | 99.5      | 0          | 29                   | A            |
| Ca++       | 0.56       | 0.01  | 8.01  | 259.0 | 98.7      | 0          | 27                   | B            |
| Cl-        | 0.81       | 0.08  | 3.10  | 372.8 | 98.1      | 0          | 25                   | C            |
| Mg++       | 0.108      | 0.030 | 0.690 | 49.7  | 98.7      | 0          | 27                   | B            |
| NO3-       | 0.51       | 0.28  | 0.96  | 233.5 | 99.5      | 0          | 29                   | B            |
| pH         | 6.13       | 5.77  | 7.45  | 337.4 | 100.0     | 0          | 30                   | A            |
| K+         | 0.14       | 0.02  | 2.56  | 62.6  | 98.7      | 0          | 27                   | A            |
| Precip     | -          | 0.0   | 62.9  | 458.9 | 96.7      | 58         | 88                   |              |
| Na+        | 0.50       | 0.08  | 2.25  | 231.3 | 98.7      | 0          | 27                   | A            |
| SO4-- corr | 0.50       | 0.03  | 3.64  | 228.3 | 98.7      | 0          | 27                   | A            |
| SO4--      | 0.55       | 0.05  | 3.83  | 250.7 | 100.0     | 0          | 30                   | A            |

## **Annex 6**

### **List of data reports**



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An Atlas of monthly and seasonal maps of precipitation amount, non-marine sulphate, nitrate, ammonium and hydrogen ion concentrations and depositions based on the EMEP precipitation network: October 1977 to September 1982.

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## **Annex 7**

### **EMEP Data Quality Objectives (DQO)**



10 % accuracy or better for oxidized sulphur and oxidized nitrogen in single analysis in the laboratory,

15 % accuracy or better for other components in the laboratory,

0.05 units for pH,

15–25 % uncertainty for the combined sampling and chemical analysis (components to be specified later),

90 % data completeness of the daily values.

The targets, with respect to accuracy in the laboratory, for the very lowest concentrations of the main components in precipitation follow the WMO GAW (1992) recommendations for regional stations:

|                               | Accuracy      |              |
|-------------------------------|---------------|--------------|
| SO <sub>4</sub> <sup>2-</sup> | 0.032 mg S/l  | (1 µmol/l)   |
| NO <sub>3</sub> <sup>-</sup>  | 0.014 mg N/l  | (1 µmol/l)   |
| NH <sub>4</sub> <sup>+</sup>  | 0.028 mg N/l  | (2 µmol/l)   |
| Cl <sup>-</sup>               | 0.107 mg Cl/l | (3 µmol/l)   |
| Ca <sup>2+</sup>              | 0.012 mg Ca/l | (0.3 µmol/l) |
| K <sup>+</sup>                | 0.012 mg K/l  | (0.3 µmol/l) |
| Mg <sup>2+</sup>              | 0.007 mg Mg/l | (0.3 µmol/l) |
| Na <sup>+</sup>               | 0.007 mg Na/l | (0.3 µmol/l) |

The targets for the wet analysis of components extracted from air filters are the same as for precipitation. For SO<sub>2</sub> the limit above for sulphate is valid for the medium volume method with impregnated filter. For NO<sub>2</sub> determined as NO<sub>2</sub><sup>-</sup> in solution the accuracy for the lowest concentrations is 0.01 mg N/l.

The aim for data completeness is valid for the current definition used by the CCC. This definition will, however, be harmonised with the WMO GAW definition and modified.

It is understood that there is a need to investigate additional uncertainty caused by local influence on the measurements at the sites (not representative siting).

It may be necessary to reconsider the DQO for volatile organic components (VOC), persistent organic pollutants (POP), and trace metals (HM).