

Data Report 2013

Particulate matter, carbonaceous and inorganic compounds

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	0,51
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	1,02	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	1,14	1,91
-	-	-	0,25	0,60	2,27	1,78	0,55	1,31	1,22	1,14	2,04
0,27	1,69	0,43	0,38	0,43	0,82	0,39	0,71	0,52	0,41	1,34	1,51
1,12	3,29	2,15	0,51	0,61	1,24	0,94	0,91	0,51	0,96	1,83	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
0,26	1,62	0,71	0,25	0,27	0,30	0,52	1,71	0,35	0,44	1,40	1,13
1,13	0,86	0,98	0,36	0,49	0,45	0,34	0,31	0,37	0,34	0,51	0,57
1,13	2,06	1,92	0,70	0,48	0,55	0,37	0,25	0,45	0,33	0,92	0,91
0,88	1,05	0,73	0,39	0,40	0,13	0,09	0,08	0,17	0,33	0,44	0,90
0,88	1,11	1,05	0,28	0,15	0,13	0,09	0,12	0,21	0,17	0,27	0,51
0,88	0,81	0,49	0,35	0,38	0,29	1,18	0,47	0,80	0,64	0,75	0,84
0,88	1,11	1,05	0,70	1,07	0,94	1,16	0,82	0,84	1,03	1,11	0,88
0,36	1,07	0,43	0,39	0,50	0,28	0,45	0,36	0,57	0,41	1,15	0,64
0,89	-	-	0,74	0,81	0,66	0,55	0,65	0,74	0,84	1,14	1,42
0,74	2,51	0,54	0,33	0,42	0,34	0,39	0,39	0,38	0,96	1,21	0,53
0,86	2,07	1,74	0,37	0,32	0,27	0,82	0,55	0,44	0,63	0,59	0,37
0,41	0,99	1,43	0,33	0,49	0,84	0,76	0,66	0,44	0,69	0,54	0,97
0,34	0,55	1,29	0,23	0,38	0,31	0,33	0,31	0,40	0,31	0,91	0,60
0,43	0,40	0,44	0,43	0,43	0,32	0,43	0,64	0,64	0,42	0,51	0,43
1,39	2,68	1,84	1,43	1,11	1,04	1,37	1,26	1,13	1,32	1,48	1,24
0,31	0,20	0,27	0,31	0,31	0,27	0,31	0,34	0,20	0,37	0,23	0,20
0,75	1,18	1,07	0,76	0,84	0,84	0,92	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 2013
Particulate matter, carbonaceous and
inorganic compounds**

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Contents

	Page
1. Introduction.....	5
2. The measurement network.....	6
3. Site codes.....	9
4. The measurement programme during 2013.....	9
5. Sampling and analytical methods.....	10
6. Laboratory intercomparison.....	11
7. Calculation of excess sulphate in precipitation	11
8. Annual summaries of the data	12
8.1 Maps over Europe.....	12
8.2 Annual summaries in tables.....	12
9. Update	21
10. References.....	22
11. Acknowledgements	22
12. List of participating institutions	23
Annex 1 Maps over Europe	25
Annex 2 Annual statistics on precipitation data.....	35
Annex 3 Annual statistics on gases and aerosol data	59
Annex 4 Overview of sampling and analytical methods 2013	83
Annex 5 List of data reports.....	125
Annex 6 Description of statistical calculation procedures.....	139
Annex 7 EMEP Data Quality Objectives (DQO)	143

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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 include all main components in precipitation and ozone and nitrogen compounds in air. Furthermore, VOC, POPs, heavy metals and particulate matter are included in the monitoring programme (ECE/EB.AIR/GE.1/2009/15).

The EMEP data from 2013 for particulate matter, organic and elemental carbon, acidifying and eutrophying components in air and precipitation are presented in this report, which aims to give a short overview of the measurement data available. A complete set of data, including raw data, annual statistics and monthly means, can be downloaded from the web at <http://ebas.nilu.no> and <http://www.nilu.no/projects/ccc/>.

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 are given in Table 1 and Figure 3.1. In addition to the network presented here, there are additional EMEP sites with other types of measurements.

In total, precipitation data from 89 stations and air data from 114 stations are presented in this report. The total number of measurement sites in this report is 132.

For detailed information on sites and their surroundings please see descriptions at <http://www.nilu.no/projects/ccc/sitedescriptions/>.

Table 1: List of EMEP monitoring stations in operation in 2013.

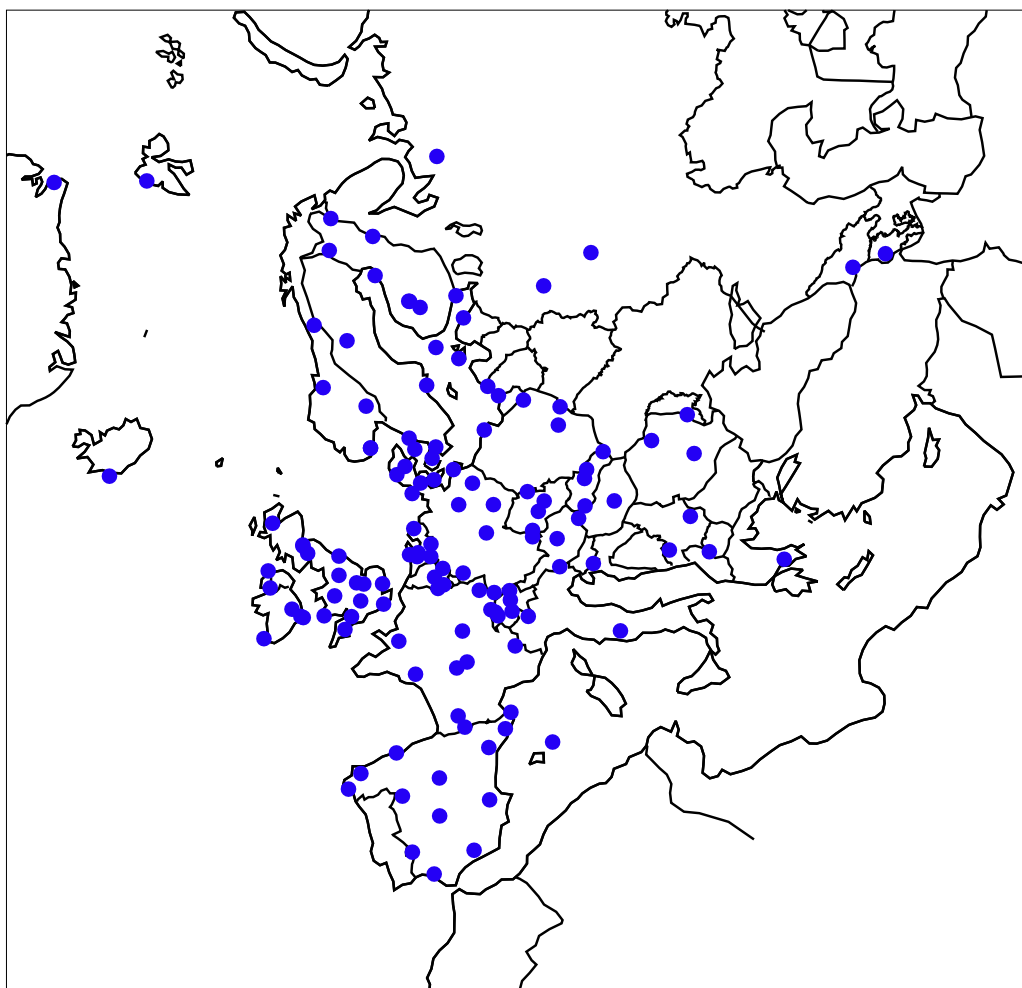
Country	Station codes	Station name	Location		Height above sea (m)
			Lat.	Long.	
Armenia	AM0001R	Amberd	40°23'04"N	044°15'38"E	2080
Austria	AT0002R	Illmitz	47°46'00"N	016°46'00"E	117
	AT0005R	Vorhegg	46°40'40"N	012°58'20"E	1020
	AT0048R	Zoebelboden	47°50'19"N	014°26'29"E	899
Belarus	BY0004R	Vysokoe	52°20'00"N	023°26'00"E	163
Belgium	BE0001R	Offagne	49°52'40"N	005°12'13"E	430
	BE0032R	Eupen	50°37'46"N	006°00'04"E	295
	BE0035R	Vezin	50°30'12"N	004°59'22"E	160
Croatia	HR0002R	Puntijarka	45°54'00"N	015°58'00"E	988
	HR0004R	Zavizan	44°49'00"N	014°59'00"E	1594
Cyprus	CY0002R	Ayia Marina	35°02'21"N	033°03'29"E	532
Czech Rep.	CZ0001R	Svratouch	49°44'00"N	016°03'00"E	737
	CZ0003R	Košetice	49°35'00"N	015°05'00"E	534
	CZ0005R	Churanov	49°04'00"N	013°36'00"E	1118
Denmark	DK0003R	Tange	56°21'00"N	009°36'00"E	13
	DK0005R	Keldsnor	54°44'00"N	010°44'00"E	10
	DK0008R	Anholt	56°43'00"N	011°31'00"E	40
	DK0010G	Nord, Greenland	81°36'00"N	016°40'12"W	20
	DK0012R	Risoe	55°41'37"N	012°05'09"E	3
	DK0022R	Sepstrup Sande	55°05'00"N	009°36'00"E	60
	DK0031R	Ulborg	56°17'00"N	008°26'00"E	10
Estonia	EE0009R	Lahemaa	59°30'00"N	025°54'00"E	32
	EE0011R	Vilsandi	58°23'00"N	021°49'00"E	6
Finland	FI0004R	Ähtäri	62°32'00"N	024°13'18"E	162
	FI0009R	Utö	59°46'45"N	021°22'38"E	7
	FI0017R	Virolahti II	60°31'36"N	027°41'10"E	4
	FI0022R	Oulanka	66°19'13"N	029°24'06"E	310
	FI0036R	Pallas (Matorova)	68°00'00"N	024°14'23"E	340
	FI0037R	Ähtäri II	62°35'00"N	024°11'00"E	180
	FI0050R	Hyytiälä	61°51'00"N	024°17'00"E	181
	FI0053R	Hailuoto II	65°00'00"N	024°41'39"E	4
France	FR0008R	Donon	48°30'00"N	007°08'00"E	775
	FR0009R	Revin	49°54'00"N	004°38'00"E	390
	FR0010R	Morvan	47°16'00"N	004°05'00"E	620
	FR0013R	Peyrusse Vieille	43°37'00"N	000°11'00"E	200
	FR0014R	Montandon	47°18'00"N	006°50'00"E	836
	FR0015R	La Tardière	46°39'00"N	000°45'00"W	133
	FR0016R	Le Casset	45°00'00"N	006°28'00"E	1750
	FR0017R	Montfranc	45°48'00"N	002°04'00"E	810
	FR0018R	La Coulonche	48°38'00"N	000°27'00"W	309
	FR0019R	Pic du Midi	42°56'12"N	000°08'31"E	2877
	FR0030R	Puy de Dôme	45°46'00"N	002°57'00"E	1465
Georgia	GE0001R	Abastumani	41°45'18"N	042°49'31"E	1650
Germany	DE0001R	Westerland	54°55'32"N	008°18'35"E	12
	DE0002R	Waldhof	52°48'08"N	010°45'34"E	74
	DE0003R	Schauinsland	47°54'53"N	007°54'31"E	1205
	DE0004R	Deuselbach	49°45'53"N	007°03'07"E	480
	DE0005R	Brotjacklriegel	48°49'10"N	013°13'09"E	1016
	DE0007R	Neuglobsow	53°10'00"N	013°02'00"E	62
	DE0008R	Schmücke	50°39'00"N	010°46'00"E	937
	DE0009R	Zingst	54°26'00"N	012°44'00"E	1
	DE0044R	Melpitz	51°31'48"N	012°55'48"E	86
	Greece	GR0001R	Aliartos	38°22'00"N	023°05'00"E
Hungary	HU0002R	K-pusztá	46°58'00"N	019°35'00"E	125
Iceland	IS0002R	Irafoss	64°05'00"N	021°01'00"W	66
	IS0091R	Storhofdi	63°24'00"N	020°17'00"W	118
Ireland	IE0001R	Valentia Observatory	51°56'23"N	010°14'40"W	11
	IE0005R	Oak Park	52°52'07"N	006°55'29"W	59
	IE0006R	Malin Head	55°22'30"N	007°20'34"W	20
	IE0008R	Carnsore Point	52°11'06"N	006°22'06"W	9
	IE0009R	Johnstown Castle	52°17'56"N	006°30'39"W	62
Italy	IT0001R	Montelibretti	42°06'00"N	012°38'00"E	48
	IT0004R	Ispra	45°48'00"N	008°38'00"E	209
Latvia	LV0010R	Rucava	56°09'43"N	021°10'23"E	18
Lithuania	LT0015R	Preila	55°21'00"N	021°04'00"E	5
Macedonia	MK0007R	Lazaropole	41°32'10"N	020°41'38"E	1332
Moldova	MD0013R	Leova II	46°29'18"N	028°17'01"E	166

Table 1, cont.

Country	Station codes	Station name	Location		Height above sea (m)
			Lat.	Long.	
Montenegro	ME0008R	Zabljak	43°09'00"N	019°08'00"E	1450
Netherlands	NL0007R	Eibergen	52°05'00"N	006°34'00"E	20
	NL0008R	Bilthoven	52°07'00"N	005°12'00"E	5
	NL0009R	Kollumerwaard	53°20'02"N	006°16'38"E	1
	NL0010R	Vredepeel	51°32'28"N	005°51'13"E	28
	NL0091R	De Zilk	52°18'00"N	004°30'00"E	4
	NL0644R	Cabauw Wielsekade	51°58'28"N	004°55'25"E	1
Norway	NO0001R	Birkenes	58°23'00"N	008°15'00"E	190
	NO0002R	Birkenes II	58°23'19"N	008°15'07"E	219
	NO0015R	Tustervatn	65°50'00"N	013°55'00"E	439
	NO0039R	Kårvatn	62°47'00"N	008°53'00"E	210
	NO0042G	Zeppelin mountain (Ny-Ålesund)	78°54'24"N	011°53'18"E	474
	NO0056R	Hurdal	60°22'21"N	011°04'41"E	300
Poland	PL0002R	Jarczew	51°49'00"N	021°59'00"E	180
	PL0003R	Sniezka	50°44'00"N	015°44'00"E	1603
	PL0004R	Leba	54°45'00"N	017°32'00"E	2
	PL0005R	Diabla Gora	54°09'00"N	022°04'00"E	157
Romania	RO0003R	Semenic	45°07'00"N	025°58'00"E	1432
	RO0008R	Poiana Stampei	47°19'29"N	025°08'05"E	908
Russian Federation	RU0001R	Janiskoski	68°56'00"N	028°51'00"E	118
	RU0013R	Pinega	64°42'00"N	043°24'00"E	28
	RU0018R	Danki	54°54'00"N	037°48'00"E	150
	RU0020R	Lesnoy	56°31'48"N	032°56'24"E	340
Serbia	RS0005R	Kamenicki vis	43°24'00"N	021°57'00"E	813
Slovakia	SK0002R	Chopok	48°56'00"N	019°35'00"E	2008
	SK0004R	Stará Lesná	49°09'00"N	020°17'00"E	808
	SK0006R	Starina	49°03'00"N	022°16'00"E	345
	SK0007R	Topolniky	47°57'36"N	017°51'38"E	113
Slovenia	SI0008R	Iskrba	45°34'00"N	014°52'00"E	520
Spain	ES0001R	San Pablo de los Montes	39°32'52"N	004°20'55"W	917
	ES0005R	Noya	42°43'41"N	008°55'25"W	683
	ES0006R	Mahón	39°52'00"N	004°19'00"E	78
	ES0007R	Viznar	37°14'00"N	003°32'00"W	1265
	ES0008R	Niembro	43°26'32"N	004°51'01"W	134
	ES0009R	Campisábalos	41°16'52"N	003°08'34"W	1360
	ES0010R	Cabo de Creus	42°19'10"N	003°19'01"E	23
	ES0011R	Barcarrota	38°28'33"N	006°55'22"W	393
	ES0012R	Zarra	39°05'10"N	001°06'07"W	885
	ES0013R	Penausende	41°17'00"N	005°52'00"W	985
	ES0014R	Els Torms	41°24'00"N	000°43'00"E	470
	ES0016R	O Saviñao	43°13'52"N	007°41'59"W	506
	ES0017R	Doñana	37°01'50"N	006°19'55"W	5
	ES1778R	Montseny	41°46'00"N	002°21'00"E	700
Sweden	SE0005R	Bredkälen	63°51'00"N	015°20'00"E	404
	SE0011R	Vavihill	56°01'00"N	013°09'00"E	175
	SE0012R	Aspvreten	58°48'00"N	017°23'00"E	20
	SE0014R	Råö	57°23'38"N	011°54'50"E	5
Switzerland	CH0001G	Jungfrauoch	46°32'51"N	007°59'06"E	3578
	CH0002R	Payerne	46°48'47"N	006°56'41"E	489
	CH0003R	Tänikon	47°28'47"N	008°54'17"E	539
	CH0004R	Chaumont	47°02'59"N	006°58'46"E	1137
	CH0005R	Rigi	47°04'03"N	008°27'50"E	1031
United Kingdom	GB0002R	Eskdalemuir	55°18'47"N	003°12'15"W	243
	GB0006R	Lough Navar	54°26'35"N	007°52'12"W	126
	GB0013R	Yarner Wood	50°35'47"N	003°42'47"W	119
	GB0014R	High Muffles	54°20'04"N	000°48'27"W	267
	GB0015R	Strath Vaich Dam	57°44'04"N	004°46'28"W	270
	GB0031R	Aston Hill	52°30'14"N	003°01'59"W	370
	GB0033R	Bush	55°51'31"N	003°12'18"W	180
	GB0036R	Harwell	51°34'23"N	001°19'00"W	137
	GB0037R	Ladybower Res.	53°23'56"N	001°45'12"W	420
	GB0038R	Lullington Heath	50°47'34"N	000°10'46"E	120
	GB0043R	Narberth	51°14'00"N	004°42'00"W	160
	GB0045R	Wicken Fen	52°17'54"N	000°17'34"W	5
	GB0048R	Auchencorth Moss	55°47'32"N	003°14'34"W	260
	GB0050R	St. Osyth	51°46'41"N	001°04'56"E	8
	GB0051R	Market Harborough	52°33'16"N	000°46'20"W	145
	GB0053R	Charlton Mackrell	51°03'23"N	002°41'00"W	54

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 3.1: Location of the EMEP monitoring stations in operation in 2013.
Sites with ozone/VOC measurements only are not included.*

4. The measurement programme during 2013

The monitoring obligations in EMEP are presented in table 2 and described in more detail in the Monitoring Strategy for 2010-2019 (UNECE, 2009). The compliance with the monitoring strategy varies between Parties and further discussions of this is found in the Status Report (Fagerli et al, 2015). In this report, inorganic data in air and precipitation, aerosol mass and inorganic and carbonaceous matter in air are presented, while VOC (Solberg, 2015), ozone (Hjellbrekke and Solberg, 2015); heavy metals and POPs (Aas and Nizzetto, 2015) are reported separately.

Table 2: EMEP's measurement programme 2013.

	Components	Measurement period	Measurement frequency
Gas	SO ₂ , NO ₂	24 hours	daily
	O ₃	hourly means stored	continuously
	Light hydrocarbons C ₂ -C ₇	10-15 mins	twice weekly
	Ketones and aldehydes (VOC)	8 hours	twice weekly
	Hg	24 hours	weekly
Particles	SO ₄ ²⁻ , NH ₄ ⁺ , NO ₃ ⁻ , Ca ²⁺ , Mg ²⁺ , Na ⁺ , K ⁺ , Cl ⁻	24 hours	daily
	Cd, Pb (first priority), Cu, Zn, As, Cr, Ni (second priority)	weekly	weekly
	PM mass (PM ₁₀ + PM _{2.5})	24 hours	daily
	EC, OC and mineral dust in PM ₁₀	daily/weekly	daily/weekly
Gas + particles	HNO ₃ (g)+NO ₃ ⁻ (p), NH ₃ (g)+NH ₄ ⁺ (p)	24 hours	daily
	POPs (PAH, PCB, HCB, chlordanes, lindane, α-HCH, DDT/DDE)	daily/weekly	once weekly
Precipitation	Amount, SO ₄ ²⁻ , NO ₃ ⁻ , Cl ⁻ , pH, NH ₄ ⁺ , Na ⁺ , Mg ²⁺ , Ca ²⁺ , K ⁺ , conductivity	24 hours/weekly	daily/weekly
	Hg, Cd, Pb (first priority), Cu, Zn, As, Cr, Ni (second priority)	weekly	weekly
	POPs (PAH, PCB, HCB, chlordanes, lindane, α-HCH, DDT/DDE)	weekly	weekly

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

A list of data reports from EMEP/CCC can be found in Annex 5. All data reports are also available on the web in pdf format at <http://www.nilu.no/projects/ccc/reports.html>.

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 (EMEP/CCC, 2014). The methods used by the participating countries are given in Annex 4.

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

The 31th laboratory intercomparison is representative for the 2013 data. Results are presented at <http://www.nilu.no/projects/ccc/intercomparison/>.

Results of the fifth interlaboratory comparison of analytical methods for carbonaceous particulate matter within EMEP (Fabrizia Cavalli, Jean-Philippe Putaud, Karl Espen Yttri. EMEP/CCC-Report 5/2015).

A series of EMEP's sites will also report data to WMO, and common reporting and quality assurance routines have been developed between EMEP and WMO GAW.

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.

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 further been adopted by the WMO GAW.

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 database 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.

8. Annual summaries of the data

8.1 Maps over Europe

Geographical distributions based on annual means of OC, EC, SO₂, NO₂, SO₄⁻, PM₁₀ and PM_{2.5} in air and pH, NH₄⁺, NO₃⁻, Ca and excess SO₄⁻ in precipitation are shown in Annex 1.

8.2 Annual summaries in tables

Annual statistics of the precipitation data are given in Annex 2 and of the air data in Annex 3. The precipitation component summaries contain:

- the precipitation weighted arithmetic mean value,
- the minimum and maximum daily concentrations,
- the wet deposition,
- percent of total precipitation amount analysed for a specific component (completeness for precipitation data),
- the number of data below the detection limit.

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 statistical summaries in Annex 3 contain:

- arithmetic mean and standard deviation,
- geometric mean and standard deviation,
- minimum and maximum daily concentrations,
- 5-percentile, median and 95-percentile,
- data capture,
- the number of data below the detection limit and total number of samples.

A description of the calculation procedures is given in Annex 6.

In addition to the statistical summaries in Annex 2 and Annex 3 annual averages are summarized in Tables 3-6. The units used for the results in this report are given in Table 7.

Table 3: Annual averages of main components with data capture > 50% in precipitation 2013.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
AM0001R	-	234.4	6.93	0.64	0.59	0.75	0.33	0.66	0.165	0.56	3.03	0.34	29
BY0004R	741.7	-	5.82	0.89	0.83	0.84	0.43	0.75	0.226	-	1.82	0.63	58
CH0002R	1042.7	-	5.64	0.12	0.12	0.31	0.21	0.05	0.015	0.10	0.20	0.03	6
CH0004R	1208.4	-	5.36	0.11	0.11	0.22	0.19	0.08	0.016	0.14	0.17	0.03	6
CH0005R	1200.0	-	5.41	0.18	0.17	0.42	0.33	0.08	0.017	0.12	0.21	0.04	8
CZ0001R	-	764.7	4.92	0.40	0.39	0.51	0.36	0.06	0.025	0.12	0.26	0.06	17
CZ0003R	-	748.7	5.01	0.29	0.28	0.36	0.33	0.04	0.017	0.18	0.42	0.11	14
CZ0005R	-	1097.2	4.88	0.27	0.26	0.41	0.35	0.07	0.018	0.19	0.13	0.04	14
DE0001R	765.6	-	5.28	0.61	0.23	0.56	0.39	4.46	0.546	8.06	0.29	0.20	40
DE0002R	642.7	-	5.08	0.35	0.30	0.63	0.40	0.63	0.082	1.03	0.25	0.08	15
DE0003R	1897.9	-	5.19	0.15	0.14	0.29	0.22	0.16	0.014	0.21	0.13	0.02	8
DE0004R	891.0	-	5.17	0.19	0.17	0.31	0.26	0.15	0.017	0.26	0.07	0.02	8
DE0005R	1136.2	-	5.03	0.19	0.18	0.38	0.34	0.11	0.015	0.17	0.09	0.04	10
DE0007R	541.1	-	5.10	0.34	0.32	0.66	0.44	0.34	0.049	0.49	0.21	0.11	14
DE0008R	1126.2	-	5.08	0.24	0.23	0.36	0.33	0.16	0.027	0.29	0.12	0.03	10
DE0009R	522.7	-	5.25	0.34	0.28	0.66	0.40	0.67	0.098	1.15	0.23	0.10	16
DE0044R	595.4	-	5.06	0.40	0.38	0.79	0.54	0.15	0.031	0.36	0.24	0.04	14
DK0005R	528.8	-	-	0.40	0.26	0.62	0.41	-	0.201	2.92	0.23	0.23	-
DK0008R	394.0	-	-	0.65	0.46	0.42	0.40	-	0.306	5.76	0.23	0.12	-
DK0022R	484.9	-	-	0.31	0.25	0.58	0.37	-	0.106	1.60	0.18	0.09	-
DK0031R	542.8	-	-	0.32	0.17	0.32	0.28	-	0.237	3.47	0.18	0.15	-
EE0009R	526.5	-	4.69	0.25	0.23	0.20	0.25	0.26	0.143	0.32	1.16	0.05	9
EE0011R	587.7	-	4.76	0.36	0.28	0.40	0.30	0.95	0.523	1.40	1.85	0.23	15
ES0001R	750.4	-	5.62	0.10	0.08	0.13	0.09	0.21	0.036	0.37	0.14	0.07	5
ES0005R	2338.4	-	5.48	0.29	0.13	0.06	0.08	2.05	0.234	3.05	0.19	0.11	17
ES0006R	314.6	-	5.85	1.66	0.29	0.22	0.46	16.44	2.063	25.50	2.52	0.55	114
ES0007R	765.2	-	6.53	0.29	0.25	0.46	0.21	0.49	0.192	0.79	1.28	0.15	16
ES0008R	1369.1	-	4.61	0.60	0.28	0.36	0.66	3.81	0.467	5.94	0.37	0.15	42
ES0009R	446.2	-	5.86	0.20	0.18	0.62	0.39	0.23	0.079	0.34	0.67	0.09	14
ES0011R	597.7	-	5.79	0.19	0.13	0.10	0.10	0.77	0.114	1.28	0.28	0.15	10
ES0012R	343.6	-	6.37	0.42	0.38	0.51	0.46	0.45	0.168	0.73	1.88	0.10	21
ES0013R	672.2	-	5.93	0.13	0.11	0.26	0.15	0.25	0.054	0.45	0.18	0.09	8
ES0014R	563.8	-	6.28	0.31	0.29	0.42	0.27	0.23	0.100	0.37	1.04	0.06	13
ES0016R	1881.1	-	5.73	0.15	0.09	0.12	0.07	0.79	0.099	1.25	0.14	0.08	9
ES0017R	418.1	-	5.51	0.36	0.19	0.10	0.11	2.12	0.243	3.15	0.36	0.07	18
FI0004R	557.2	-	4.86	0.18	0.16	0.15	0.21	0.15	0.029	0.26	0.08	0.06	9
FI0017R	487.6	-	4.70	0.42	0.39	0.35	0.39	0.31	0.061	0.56	0.20	0.08	16
FI0022R	530.7	-	4.89	0.13	0.12	0.06	0.11	0.10	0.016	0.16	0.03	0.02	7
FI0036R	498.2	-	4.91	0.13	0.12	0.06	0.10	0.11	0.017	0.18	0.04	0.03	7
FI0053R	409.5	-	4.97	0.18	0.17	0.21	0.20	0.16	0.025	0.26	0.06	0.04	8
FR0008R	1683.3	-	5.40	0.17	0.16	0.24	0.22	0.17	0.024	0.26	0.11	0.03	8
FR0009R	1038.6	-	5.55	0.29	0.25	0.47	0.35	0.47	0.068	0.73	0.27	0.08	12
FR0010R	1295.9	-	5.26	0.20	0.17	0.26	0.26	0.31	0.048	0.53	0.25	0.08	10
FR0013R	1053.6	-	5.58	0.29	0.20	0.28	0.20	1.02	0.132	1.78	0.32	0.11	14
FR0014R	1373.1	-	5.55	0.16	0.15	0.29	0.25	0.14	0.023	0.20	0.19	0.03	8
FR0015R	1104.8	-	5.92	0.26	0.15	0.31	0.17	1.31	0.160	2.35	0.17	0.08	15
FR0016R	984.2	-	5.96	0.17	0.16	0.17	0.17	0.11	0.047	0.15	0.55	0.06	8
FR0017R	1315.1	-	5.61	0.18	0.15	0.22	0.18	0.42	0.061	0.70	0.23	0.04	9
FR0018R	927.5	-	5.69	0.29	0.20	0.43	0.27	1.13	0.141	2.00	0.18	0.07	16
GB0002R	1215.5	-	5.17	0.31	0.12	0.26	0.16	2.18	0.254	3.87	0.17	0.11	20
GB0006R	1346.5	-	5.40	0.46	0.12	0.28	0.13	4.01	0.497	7.20	0.33	0.20	32
GB0013R	1576.1	-	5.07	0.38	0.20	0.33	0.28	2.07	0.249	3.69	0.19	0.13	21
GB0014R	629.3	-	4.92	0.64	0.41	0.60	0.45	2.75	0.334	5.24	0.38	0.15	31
GB0015R	1237.4	-	5.13	0.44	0.06	0.08	0.04	4.57	0.540	8.18	0.22	0.17	35
GB0036R	563.4	-	5.24	0.28	0.21	0.41	0.30	0.83	0.100	1.41	0.22	0.09	13
GB0048R	678.0	-	5.30	0.26	0.14	0.30	0.17	1.37	0.164	2.43	0.13	0.07	13
HU0002R	-	430.4	5.66	0.63	0.56	0.37	0.33	1.27	0.108	1.06	0.67	0.13	18
IE0001R	-	1640.6	5.32	0.82	0.11	0.09	0.07	8.51	1.107	16.02	0.33	0.35	64
IE0009R	585.2	-	5.32	0.51	0.19	0.40	0.27	3.83	0.484	7.03	0.25	0.15	34
IS0091R	1683.8	1760.9	5.62	4.42	0.39	0.61	0.11	48.09	5.848	92.83	2.40	2.31	308
IT0001R	965.0	-	5.87	0.58	0.46	0.35	0.57	1.46	0.463	2.50	1.58	0.35	28
IT0004R	1514.0	-	5.20	0.31	0.29	0.78	0.49	0.26	0.048	0.27	0.35	0.04	12

Table 3, cont.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
LT0015R	481.6	-	5.01	0.48	0.34	0.40	0.41	1.60	0.189	2.82	0.59	0.11	23
LV0010R	747.6	-	5.09	0.40	0.35	0.37	0.34	0.56	0.108	1.07	0.27	0.16	15
MD0013R	526.3	-	5.25	0.92	0.89	0.35	0.39	0.08	0.104	1.20	0.22	0.19	16
ME0008R	1085.4	-	6.41	2.80	2.73	0.92	0.92	0.93	0.450	1.90	1.85	0.43	-
NL0091R	664.7	-	-	0.49	0.28	0.50	0.36	2.46	0.337	4.94	0.21	0.25	31
NO0001R	1428.9	-	4.97	0.32	0.21	0.37	0.35	1.34	0.160	2.30	0.17	0.10	18
NO0015R	1152.3	-	5.39	0.11	0.04	0.14	0.05	0.86	0.102	1.56	0.09	0.06	9
NO0039R	1431.7	-	5.45	0.20	0.04	0.13	0.06	1.96	0.224	3.54	0.14	0.15	16
NO0056R	896.4	-	5.18	0.21	0.17	0.38	0.26	0.43	0.052	0.70	0.15	0.10	11
PL0002R	545.9	-	4.82	0.45	0.44	0.44	0.38	0.14	0.036	0.33	0.22	0.09	14
PL0003R	1212.2	-	4.49	0.81	0.77	0.44	0.63	0.40	0.130	0.57	0.29	0.21	25
PL0004R	665.5	-	4.85	0.39	0.27	0.35	0.38	1.44	0.177	2.49	0.23	0.13	21
PL0005R	690.6	787.1	4.92	0.34	0.32	0.43	0.35	0.11	0.035	0.33	0.13	0.04	11
RS0005R	-	661.6	5.09	1.09	1.05	0.53	0.43	0.40	0.131	0.52	1.20	0.42	27
RU0001R	398.6	-	5.07	0.30	0.24	0.15	0.08	0.63	0.074	1.43	0.30	0.28	10
RU0013R	498.2	-	5.71	0.32	0.28	0.31	0.17	0.49	0.131	0.84	0.56	0.45	12
RU0018R	912.5	-	5.10	0.38	0.37	0.27	0.26	0.16	0.070	0.32	0.53	0.20	10
RU0020R	733.6	-	5.08	0.32	0.30	0.29	0.26	0.16	0.041	0.26	0.37	0.15	9
SE0005R	530.8	-	5.06	0.10	0.09	0.07	0.08	0.09	0.017	0.16	0.09	0.04	6
SE0011R	885.2	-	4.91	0.45	0.23	0.41	0.39	2.60	0.322	4.63	0.20	0.18	29
SE0012R	518.0	-	4.78	0.17	0.14	0.17	0.25	0.28	0.038	0.47	0.09	0.05	11
SE0014R	597.4	-	4.94	0.61	0.22	0.44	0.40	4.58	0.571	8.12	0.28	0.20	41
SI0008R	1489.8	-	4.97	0.27	0.25	0.20	0.22	0.26	0.054	0.42	0.20	0.04	9
SK0002R	1328.9	-	4.99	0.38	0.37	0.29	0.22	0.14	0.034	0.19	0.19	0.06	10
SK0004R	686.2	-	4.84	0.44	0.43	0.36	0.27	0.12	0.034	0.12	0.39	0.05	14
SK0006R	691.9	-	4.73	0.55	0.54	0.29	0.30	0.18	0.045	0.24	0.40	0.12	16
SK0007R	490.7	-	4.82	0.52	0.51	0.47	0.38	0.11	0.035	0.18	0.29	0.05	16

Table 4: Annual averages of main components in air 2013.

Code	Matrix	SO ₂	NO ₂	SO ₄	XSO ₄	SNO ₃	NO ₃	HNO ₃	SNH ₄	NH ₄	NH ₃
AM0001R	air/aerosol	0.22	0.26	0.49	0.48	-	0.54	0.11	-	0.72	1.27
AT0002R	air/aerosol	0.98	2.89	-	-	-	-	-	-	-	-
AT0005R	air/aerosol	0.15	0.93	-	-	-	-	-	-	-	-
AT0048R	air/aerosol	0.23	1.60	-	-	-	-	-	-	-	-
BE0001R	air/aerosol	-	2.34	-	-	-	-	-	-	-	-
BE0032R	air/aerosol	-	3.81	-	-	-	-	-	-	-	-
BE0035R	air/aerosol	-	4.48	-	-	-	-	-	-	-	-
CH0001G	air/aerosol	0.03	0.13	0.09	-	-	1875.01	-	-	0.02	-
CH0001G	pm1	-	-	0.02	-	-	2112.68	-	-	0.01	-
CH0002R	air/aerosol	0.23	3.55	0.54	0.52	1.14	0.92	-	3.29	1.35	1.90
CH0003R	air/aerosol	-	4.18	-	-	-	-	-	-	-	-
CH0004R	air/aerosol	-	1.94	-	-	-	-	-	-	-	-
CH0005R	air/aerosol	0.19	1.33	0.38	0.36	0.81	0.58	0.19	1.70	-	0.86
CY0002R	air/aerosol	0.77	0.89	-	-	-	-	-	-	-	-
CY0002R	pm10	-	-	1.28	-	-	0.35	-	-	0.44	-
CY0002R	pm25	-	-	1.02	-	-	0.04	-	-	0.73	-
CZ0003R	air/aerosol	1.18	-	0.95	-	0.94	-	-	2.12	-	-
CZ0005R	air/aerosol	0.43	-	0.55	-	0.53	-	-	0.97	-	-
DE0001R	air/aerosol	0.36	2.19	-	-	-	-	-	-	-	-
DE0002R	air/aerosol	0.51	2.77	0.68	0.65	0.81	0.55	-	2.22	0.74	1.47
DE0002R	pm25	-	-	0.71	0.70	-	0.47	-	-	1.00	-
DE0003R	air/aerosol	0.26	0.95	-	-	-	-	-	-	-	-
DE0003R	pm25	-	-	0.33	0.33	-	0.22	-	-	0.55	-
DE0007R	air/aerosol	0.54	1.80	0.66	0.63	0.61	0.40	0.21	1.48	0.70	0.75
DE0007R	pm25	-	-	0.65	0.65	-	0.32	-	-	0.89	-
DE0008R	air/aerosol	0.54	2.02	-	-	-	-	-	-	-	-
DE0008R	pm25	-	-	0.51	0.50	-	0.28	-	-	0.71	-
DE0009R	air/aerosol	0.56	2.09	-	-	-	-	-	-	-	-
DE0044R	pm10	-	-	0.70	0.69	-	0.71	-	-	1.31	-
DE0044R	pm25	-	-	0.64	0.64	-	0.57	-	-	1.21	-
DK0003R	air/aerosol	0.14	-	0.53	0.44	0.63	-	-	-	0.90	1.03
DK0005R	air/aerosol	-	2.26	-	-	-	-	-	-	-	-
DK0008R	air/aerosol	0.24	2.07	0.61	0.46	0.60	-	-	-	0.72	0.19
DK0010G	air/aerosol	0.08	-	0.10	0.04	0.02	-	-	-	0.02	0.00
DK0012R	air/aerosol	0.26	2.78	0.63	0.52	0.85	-	-	-	1.06	0.74
DK0031R	air/aerosol	0.14	-	0.56	0.45	0.64	-	-	-	0.84	0.59
EE0009R	air/aerosol	1.05	2.45	-	-	-	-	-	-	-	-
EE0011R	air/aerosol	0.52	2.07	-	-	-	-	-	-	-	-
ES0001R	air/aerosol	0.37	0.80	-	-	0.37	-	-	1.82	-	1.09
ES0001R	pm10	-	-	0.34	0.32	-	0.13	-	-	0.43	-
ES0001R	pm25	-	-	0.22	0.22	-	-	-	-	0.27	-
ES0005R	air/aerosol	0.69	0.74	-	-	0.34	-	-	1.05	-	-
ES0005R	pm10	-	-	0.39	-	-	0.14	-	-	-	-
ES0006R	air/aerosol	0.18	1.19	-	-	0.57	-	-	1.32	-	-
ES0006R	pm10	-	-	0.82	-	-	0.35	-	-	-	-
ES0007R	air/aerosol	0.34	1.35	-	-	0.38	-	-	1.27	-	1.66
ES0007R	pm10	-	-	0.48	0.44	-	0.19	-	-	0.69	-
ES0007R	pm25	-	-	0.43	0.41	-	0.13	-	-	0.36	-
ES0008R	air/aerosol	0.60	1.14	-	-	0.55	-	-	1.63	-	0.64
ES0008R	pm10	-	-	0.68	0.54	-	0.25	-	-	0.53	-
ES0008R	pm25	-	-	0.34	0.33	-	0.07	-	-	0.24	-
ES0009R	air/aerosol	0.27	0.71	-	-	0.28	-	-	0.85	-	0.57
ES0009R	pm10	-	-	0.28	0.26	-	0.07	-	-	0.35	-
ES0009R	pm25	-	-	0.21	0.21	-	0.04	-	-	0.21	-
ES0010R	air/aerosol	0.16	1.48	-	-	0.60	-	-	1.29	-	-
ES0010R	pm10	-	-	0.59	-	-	0.39	-	-	-	-
ES0011R	air/aerosol	0.23	0.84	-	-	0.29	-	-	0.67	-	-
ES0011R	pm10	-	-	0.43	-	-	0.19	-	-	-	-
ES0012R	air/aerosol	0.28	0.59	-	-	0.33	-	-	1.15	-	-
ES0012R	pm10	-	-	0.44	-	-	0.26	-	-	-	-
ES0013R	air/aerosol	0.21	0.71	-	-	0.30	-	-	0.79	-	-
ES0013R	pm10	-	-	0.32	-	-	0.16	-	-	-	-
ES0014R	air/aerosol	0.44	1.16	-	-	0.46	-	-	2.59	-	-
ES0014R	pm10	-	-	0.48	0.44	-	0.21	-	-	0.65	-

Table 4, cont.

Code	Matrix	SO ₂	NO ₂	SO ₄	XSO ₄	SNO ₃	NO ₃	HNO ₃	SNH ₄	NH ₄	NH ₃
ES0014R	pm25	-	-	0.35	0.34	-	0.13	-	-	0.52	-
ES0016R	air/aerosol	0.17	0.72	-	-	0.36	-	-	1.44	-	-
ES0016R	pm10	-	-	0.43	-	-	0.16	-	-	-	-
ES0017R	air/aerosol	0.39	0.90	-	-	0.54	-	-	1.49	-	-
ES0017R	pm10	-	-	0.74	-	-	0.32	-	-	-	-
ES1778R	pm1	-	-	0.32	0.32	-	0.07	-	-	0.28	-
ES1778R	pm10	-	-	0.45	0.42	-	0.20	-	-	0.33	-
ES1778R	pm25	-	-	0.40	0.39	-	0.11	-	-	0.35	-
FI0009R	air/aerosol	0.23	-	0.38	-	0.32	0.18	0.14	0.33	0.26	0.07
FI0017R	air/aerosol	0.34	-	0.36	-	0.21	0.11	0.11	0.36	0.24	0.12
FI0022R	air/aerosol	0.23	-	0.22	-	0.05	0.01	0.03	0.10	0.08	0.02
FI0036R	air/aerosol	0.09	-	0.18	-	0.04	0.02	0.02	0.10	0.08	0.05
FI0037R	air/aerosol	0.11	-	0.25	-	0.10	0.04	0.06	0.20	0.13	0.08
FR0009R	air/aerosol	0.15	-	0.58	-	0.88	-	-	1.36	-	-
FR0013R	air/aerosol	0.09	-	0.51	-	0.73	-	-	1.58	-	-
FR0015R	air/aerosol	0.06	-	0.54	-	0.93	-	-	3.20	-	-
FR0030R	air/aerosol	0.27	-	-	-	-	-	-	-	-	-
GB0002R	air/aerosol	-	0.76	-	-	-	-	-	-	-	-
GB0013R	air/aerosol	-	1.59	-	-	-	-	-	-	-	-
GB0014R	air/aerosol	-	1.64	-	-	-	-	-	-	-	-
GB0031R	air/aerosol	-	1.48	-	-	-	-	-	-	-	-
GB0033R	air/aerosol	-	1.96	-	-	-	-	-	-	-	-
GB0036R	air/aerosol	0.26	4.70	-	-	-	-	0.06	-	-	1.63
GB0036R	pm10	-	-	0.72	0.65	-	0.84	-	-	1.23	-
GB0036R	pm25	-	-	0.71	0.67	-	0.75	-	-	1.24	-
GB0037R	air/aerosol	2.23	4.92	-	-	-	-	-	-	-	-
GB0038R	air/aerosol	0.54	2.61	-	-	-	-	-	-	-	-
GB0043R	air/aerosol	0.70	1.56	-	-	-	-	-	-	-	-
GB0045R	air/aerosol	0.69	2.79	-	-	-	-	-	-	-	-
GB0048R	air/aerosol	0.07	1.44	-	-	-	-	0.02	-	-	0.98
GB0048R	pm10	-	-	0.39	0.33	-	0.29	-	-	0.58	-
GB0048R	pm25	-	-	0.35	0.32	-	0.24	-	-	0.51	-
GB0050R	air/aerosol	-	4.19	-	-	-	-	-	-	-	-
GB0051R	air/aerosol	-	3.99	-	-	-	-	-	-	-	-
GB0053R	air/aerosol	-	2.63	-	-	-	-	-	-	-	-
GE0001R	air/aerosol	0.32	-	0.89	0.86	0.14	0.85	-	1.07	1.25	0.57
GR0001R	air/aerosol	1.42	2.94	-	-	-	-	-	-	-	-
HU0002R	air/aerosol	0.84	1.40	1.03	-	-	0.37	0.24	-	0.82	1.36
IE0001R	air/aerosol	0.19	1.04	0.43	0.28	0.39	-	-	0.91	-	-
IE0005R	air/aerosol	-	-	0.37	0.30	-	0.32	-	-	0.60	-
IE0006R	air/aerosol	-	-	0.42	0.26	-	0.25	-	-	0.51	-
IE0008R	air/aerosol	-	-	0.56	0.31	-	0.42	-	-	0.60	-
IS0091R	air/aerosol	-	-	0.49	-	0.36	-	0.00	-	-	-
IT0001R	air/aerosol	0.19	3.47	0.60	-	-	0.40	0.13	-	1.01	1.53
IT0001R	pm10_pm25	-	-	0.08	-	-	0.14	-	-	-	-
IT0001R	pm25	-	-	0.52	-	-	0.26	-	-	-	-
IT0004R	air/aerosol	0.30	5.46	-	-	-	-	-	-	-	-
IT0004R	pm25	-	-	0.64	-	-	0.83	-	-	1.39	-
LT0015R	air/aerosol	0.27	0.84	0.72	-	0.57	-	-	0.85	-	-
LV0010R	air/aerosol	0.31	0.77	0.43	-	0.46	0.09	-	1.12	0.72	-
LV0010R	pm25	-	-	0.56	0.56	-	0.08	-	-	0.36	-
MD0013R	air/aerosol	0.65	0.29	0.87	0.85	0.80	0.36	0.44	1.05	0.60	0.36
NL0007R	air/aerosol	0.37	4.29	-	-	-	-	-	-	-	5.47
NL0009R	air/aerosol	0.26	3.67	-	-	-	-	-	-	-	-
NL0010R	air/aerosol	-	5.28	0.90	0.85	-	1.57	-	-	1.52	-
NL0091R	air/aerosol	0.65	4.84	0.79	0.70	-	1.19	-	-	1.05	1.59
NL0644R	air/aerosol	0.59	5.77	-	-	-	-	-	-	-	-
NO0002R	air/aerosol	0.09	0.28	0.25	0.21	0.29	0.21	0.08	0.46	0.23	0.23
NO0015R	air/aerosol	0.03	0.13	0.08	0.07	0.13	0.09	0.03	0.69	0.09	0.57
NO0039R	air/aerosol	0.02	0.16	0.09	0.08	0.13	0.08	0.04	0.57	0.09	0.48
NO0042G	air/aerosol	0.09	-	0.16	0.14	0.18	0.13	0.05	0.28	0.11	0.17
NO0056R	air/aerosol	0.04	0.69	0.17	0.16	0.18	0.12	0.06	0.37	0.15	0.22

Table 4, cont.

Code	Matrix	SO ₂	NO ₂	SO ₄	XSO ₄	SNO ₃	NO ₃	HNO ₃	SNH ₄	NH ₄	NH ₃
PL0002R	air/aerosol	1.06	2.75	0.99	-	0.74	0.60	-	2.74	1.39	-
PL0003R	air/aerosol	0.94	0.94	0.82	-	0.47	0.35	-	0.75	0.52	-
PL0004R	air/aerosol	0.70	1.17	0.93	-	0.49	0.39	-	1.55	0.99	-
PL0005R	air/aerosol	0.58	1.04	0.57	-	1.15	0.46	0.69	2.03	1.27	0.77
PL0005R	pm25	-	-	0.61	0.60	-	0.23	-	-	0.61	-
RO0003R	air/aerosol	-	1.85	-	-	-	-	-	-	-	-
RO0008R	air/aerosol	3.46	1.85	-	-	-	-	-	-	-	-
RS0005R	air/aerosol	7.98	0.66	-	-	-	-	-	-	-	-
RU0018R	air/aerosol	0.39	-	0.66	-	-	0.37	-	-	0.38	-
RU0020R	air/aerosol	0.31	-	0.53	-	-	0.17	-	-	0.15	-
SE0005R	air/aerosol	0.05	0.08	0.10	0.09	0.04	-	-	0.16	-	-
SE0011R	air/aerosol	0.21	1.12	0.34	0.30	0.42	-	-	0.88	-	-
SE0012R	air/aerosol	0.18	0.54	0.31	0.28	0.22	-	-	0.38	-	-
SE0014R	air/aerosol	0.28	1.12	0.40	0.27	0.44	-	-	0.63	-	-
SI0008R	air/aerosol	0.18	0.61	0.53	0.52	0.18	-	-	0.72	-	-
SI0008R	pm25	-	-	1.90	1.90	-	0.28	-	-	0.84	-
SK0002R	air/aerosol	0.26	0.91	0.18	0.17	-	0.08	0.03	-	-	-
SK0006R	air/aerosol	0.77	1.32	0.65	0.64	-	0.29	0.08	-	0.58	0.66

Table 5: Annual averages and data capture of base cations and sodium and chloride in aerosols in 2013.

Code	Matrix	Na	capture	Ca	capture	Mg	capture	K	capture	Cl	capture
AM0001R	aerosol	0.08	91	0.53	93	0.05	94	0.12	94	0.06	94
CH0001G	aerosol	0.01	14	0.02	14	0.00	14	0.01	14	0.00	14
CH0001G	pm1	0.00	13	0.00	13	0.00	13	0.00	13	0.00	13
CH0002R	aerosol	0.16	100	0.35	100	0.03	100	0.17	100	-	-
CH0005R	aerosol	0.09	99	0.20	99	0.02	99	0.07	99	-	-
CY0002R	pm10	1.22	92	1.32	92	0.15	92	0.11	92	0.75	92
CY0002R	pm25	0.18	94	0.19	94	0.03	94	0.05	94	0.05	94
CZ0003R	pm10	0.12	100	0.11	100	0.03	100	0.12	100	-	-
DE0002R	aerosol	0.39	100	0.11	100	0.05	100	0.16	100	0.36	100
DE0002R	pm25	0.13	32	0.03	32	0.01	32	0.08	32	0.10	32
DE0003R	pm25	0.04	33	0.03	33	0.00	33	0.04	33	0.02	33
DE0007R	aerosol	0.34	99	0.09	99	0.05	99	0.11	99	0.33	99
DE0007R	pm25	0.11	33	0.03	33	0.01	33	0.07	33	0.06	33
DE0008R	pm25	0.05	33	0.03	33	0.01	33	0.06	33	0.03	33
DE0044R	pm10	0.20	100	0.12	100	0.03	100	0.08	100	0.21	100
DE0044R	pm25	0.06	100	0.07	100	0.01	100	0.06	100	0.07	100
DK0003R	aerosol	1.13	88	0.18	88	-	-	0.14	88	2.14	92
DK0008R	aerosol	1.85	88	0.24	88	-	-	0.12	88	3.17	90
DK0010G	aerosol	0.11	79	0.02	71	-	-	0.01	71	0.12	79
DK0012R	aerosol	1.42	93	0.25	93	-	-	0.15	93	2.04	96
DK0031R	aerosol	1.43	91	0.18	91	-	-	0.11	91	2.14	92
ES0001R	pm10	0.29	98	0.21	98	0.04	98	0.09	98	0.18	16
ES0001R	pm25	0.06	16	0.04	16	0.01	16	0.05	16	0.05	16
ES0007R	pm10	0.33	82	0.45	82	0.06	82	0.18	82	0.12	16
ES0007R	pm25	0.23	16	0.23	16	0.04	16	0.18	16	0.08	16
ES0008R	pm10	1.68	95	0.23	95	0.20	95	0.10	95	1.41	16
ES0008R	pm25	0.21	16	0.05	16	0.02	16	0.03	16	0.14	16
ES0009R	pm10	0.17	86	0.24	86	0.02	86	0.04	86	0.11	16
ES0009R	pm25	0.06	16	0.10	16	0.01	16	0.03	16	0.05	16
ES0014R	pm10	0.42	93	0.37	93	0.05	93	0.11	93	0.14	16
ES0014R	pm25	0.11	16	0.10	16	0.01	16	0.05	16	0.05	16
ES1778R	pm1	0.02	19	0.02	19	0.01	19	0.03	19	0.06	19
ES1778R	pm10	0.26	25	0.21	25	0.06	25	0.09	25	0.16	25
ES1778R	pm25	0.06	22	0.07	22	0.02	22	0.04	22	0.11	22
FI0009R	aerosol	0.53	96	0.06	96	0.07	96	0.04	96	0.49	96
FI0017R	aerosol	0.19	100	0.08	100	0.03	100	0.05	100	0.10	100
FI0022R	aerosol	0.14	71	0.02	71	0.02	71	0.02	71	0.07	71
FI0036R	aerosol	0.17	94	0.01	94	0.02	94	0.02	94	0.18	94
FI0037R	aerosol	0.14	98	0.03	98	0.02	98	0.04	98	0.06	98
GB0036R	pm10	1.13	93	0.38	93	0.24	93	0.08	93	1.17	95
GB0036R	pm25	0.60	95	0.22	95	0.14	95	0.07	95	0.60	96
GB0048R	pm10	0.73	79	0.06	82	0.08	86	0.07	86	1.15	83
GB0048R	pm25	0.45	80	0.05	83	0.05	83	0.05	81	0.66	85
GE0001R	aerosol	-	-	-	-	-	-	-	-	0.44	20
IE0001R	aerosol	1.81	98	0.14	98	0.23	98	0.09	98	3.04	98
IE0005R	aerosol	1.09	93	0.11	93	0.19	93	0.08	93	1.76	93
IE0006R	aerosol	1.92	92	0.10	91	0.23	92	0.09	92	3.69	92
IE0008R	aerosol	3.00	92	0.15	92	0.37	92	0.15	92	5.67	92
IS0091R	aerosol	-	-	-	-	-	-	-	-	10.90	0
LV0010R	pm25	0.09	94	0.21	94	0.01	94	0.08	94	0.06	94
MD0013R	aerosol	0.22	74	0.61	74	0.11	74	0.25	74	0.33	97
NL0008R	aerosol	0.79	50	0.16	50	0.11	50	-	-	-	-
NL0009R	aerosol	0.93	50	0.12	50	0.13	50	-	-	-	-
NL0010R	aerosol	0.56	47	0.26	47	0.11	47	-	-	0.59	50
NL0091R	aerosol	-	-	-	-	-	-	-	-	1.35	47
NO0002R	aerosol	0.51	99	0.06	100	0.06	100	0.06	99	0.57	100
NO0015R	aerosol	0.20	90	0.04	90	0.02	90	0.03	90	0.25	90
NO0039R	aerosol	0.15	98	0.04	98	0.02	98	0.04	98	0.16	98
NO0042G	aerosol	0.25	85	0.04	85	0.04	85	0.03	83	0.32	85
NO0056R	aerosol	0.17	100	0.05	100	0.02	100	0.06	100	0.14	100
PL0005R	pm25	0.13	92	0.04	92	0.01	92	0.08	92	0.02	90
SE0005R	aerosol	0.11	98	0.03	98	0.02	98	0.02	98	0.13	98
SE0011R	aerosol	0.47	91	0.06	91	0.06	91	0.07	91	0.39	91
SE0012R	aerosol	0.37	99	0.04	99	0.05	99	0.04	99	0.26	99
SE0014R	aerosol	1.62	100	0.10	100	0.20	100	0.10	100	2.24	100
SI0008R	aerosol	0.09	99	0.18	99	0.05	99	0.14	99	0.06	99
SI0008R	pm25	0.03	48	0.07	48	0.01	48	0.14	48	0.04	48
SK0002R	aerosol	-	-	-	-	-	-	-	-	0.03	94
SK0006R	aerosol	0.05	96	0.05	97	0.01	97	0.08	97	0.09	94

Table 6: Annual averages and data capture of particulate matter in 2013.

Code	PM10	capture	PM2.5	capture	PM1	capture
AT0002R	20.64	98	15.92	95	11.34	33
AT0005R	7.30	33	-	-	-	-
AT0048R	9.40	32	-	-	-	-
CH0001G	2.14	100	-	-	-	-
CH0002R	15.47	100	12.92	24	9.44	24
CH0003R	15.30	100	-	-	-	-
CH0004R	7.94	100	-	-	-	-
CH0005R	7.68	100	6.54	23	-	-
CY0002R	26.40	100	12.78	100	-	-
CZ0001R	13.92	46	-	-	-	-
CZ0003R	19.17	93	15.31	96	-	-
CZ0005R	8.16	88	-	-	-	-
DE0001R	17.97	90	-	-	-	-
DE0002R	15.64	100	11.79	100	7.13	100
DE0003R	8.51	96	6.79	95	-	-
DE0007R	13.80	100	10.05	100	-	-
DE0008R	10.48	100	7.97	100	-	-
DE0009R	13.94	100	-	-	-	-
DE0044R	22.04	100	18.03	100	-	-
ES0001R	10.03	97	5.35	94	-	-
ES0005R	6.77	86	-	-	-	-
ES0006R	17.39	93	5.80	91	-	-
ES0007R	14.03	81	9.36	77	-	-
ES0008R	15.64	94	6.54	89	-	-
ES0009R	8.94	98	4.80	80	-	-
ES0010R	16.93	94	7.40	90	-	-
ES0011R	12.85	92	7.22	88	-	-
ES0012R	9.37	98	4.82	95	-	-
ES0013R	8.79	98	4.53	93	-	-
ES0014R	11.41	90	6.19	85	-	-
ES0016R	9.69	95	6.69	75	-	-
ES0017R	14.77	96	-	-	-	-
ES1778R	14.18	31	11.16	28	9.18	25
FR0009R	17.81	86	12.91	91	-	-
FR0010R	12.90	86	-	-	-	-
FR0013R	14.97	93	-	-	-	-
FR0014R	16.42	99	-	-	-	-
FR0015R	15.88	99	11.29	88	-	-
GB0006R	2.24	79	-	-	-	-
GB0036R	3.80	53	3.58	57	-	-
GB0043R	3.22	83	-	-	-	-
GB0048R	1.36	59	0.87	62	-	-
HU0002R	20.34	89	16.97	65	-	-
IT0001R	25.02	100	-	-	-	-
IT0004R	-	-	17.30	85	-	-
LV0010R	14.24	80	9.21	85	-	-
MD0013R	28.07	97	-	-	-	-
MK0007R	21.36	47	-	-	-	-
NL0007R	15.35	91	-	-	-	-
NL0009R	17.56	92	10.00	91	-	-
NL0010R	21.68	94	15.07	100	-	-
NL0091R	18.81	91	10.81	94	-	-
NL0644R	19.67	91	12.54	50	-	-
NO0002R	4.90	92	2.92	86	-	-
NO0039R	3.11	100	2.22	100	-	-
NO0056R	4.55	100	3.12	100	-	-
PL0005R	15.67	99	12.83	92	-	-
RO0008R	15.31	67	-	-	-	-
SE0005R	3.42	93	1.86	91	-	-
SE0011R	12.99	91	6.24	66	-	-
SE0012R	7.07	92	5.10	96	-	-
SE0014R	13.34	98	5.47	90	-	-
SI0008R	12.61	96	10.56	96	-	-

Table 7: Annual averages and data capture for carbonaceous compounds in 2013.

Code	Matrix	OC	capture	EC	capture	TC	capture
CH0002R	pm25	2.41	15	0.41	15	-	-
CH0005R	pm25	1.36	7	0.21	7	-	-
CY0002R	pm25	1.88	30	0.24	30	-	-
CZ0003R	pm25	3.74	17	0.48	17	4.23	17
DE0002R	pm25	2.39	20	0.25	20	2.64	20
DE0003R	pm25	1.25	17	0.09	17	1.34	17
DE0007R	pm25	2.25	19	0.26	19	2.51	19
DE0008R	pm25	1.71	17	0.18	17	1.89	17
DE0044R	pm10	3.65	100	0.45	100	4.10	100
ES0001R	pm25	1.79	14	0.09	14	-	-
ES0009R	pm25	1.79	13	0.06	13	-	-
ES1778R	pm1	1.12	25	0.18	25	1.30	25
ES1778R	pm10	1.59	31	0.22	31	1.81	31
ES1778R	pm25	1.35	28	0.20	28	1.54	28
FR0030R	pm25	1.95	13	0.05	13	2.02	13
GR0002R	pm10	1.79	86	0.34	86	-	-
HU0002R	pm10	-	-	-	-	5.66	10
IT0004R	pm25	6.35	86	1.35	86	-	-
NL0644R	pm25	2.57	20	0.36	20	2.93	20
NO0002R	pm10	0.76	98	0.09	98	0.84	98
NO0002R	pm25	0.57	98	0.08	98	0.65	98
NO0039R	pm10	0.75	98	0.06	98	0.81	98
NO0039R	pm25	0.53	98	0.06	98	0.59	98
NO0056R	pm10	1.05	100	0.14	100	1.19	100
NO0056R	pm25	0.76	100	0.14	100	0.90	100
PL0005R	pm25	3.04	92	0.51	92	-	-
SE0011R	pm10	1.15	88	0.20	88	1.34	88
SE0012R	pm10	1.53	35	0.16	35	-	-
SI0008R	pm25	3.26	47	0.27	47	-	-

Table 8: Units used for precipitation components.

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

Table 9: Units used for air components.

Air components	Units for arithmetic and geometric mean values, arithmetic standard deviations, Min., Max, percentiles.
SO ₂	µg S/m ³
NO ₂ , NO	µg N/m ³
CO	ppb
HNO ₃	µg N/m ³
NH ₃	µg N/m ³
SO ₄ ²⁻	µg S/m ³
NO ₃ ⁻	µg N/m ³
NH ₄ ⁺	µg N/m ³
H ⁺	Ne H ⁺ /m ³
SPM, PM	µg/m ³
HNO ₃ + NO ₃ ⁻	µg N/m ³
NH ₃ + NH ₄ ⁺	µg N/m ³
Ca ⁺⁺	µg/m ³
Cl ⁻	µg/m ³
Mg ⁺⁺	µg/m ³
K ⁺	µg/m ³
Na ⁺	µg/m ³
OC	µg C/m ³
EC	µg C/m ³

9. Update

The data compiled in this report represent the best data available at present. If further errors are detected, the data will be corrected in the database. It is important that users make sure that they have access to the most recent version of the database. For the data presented here the latest alteration was 25 August, 2015.

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) or downloaded from the internet at <http://ebas.nilu.no> and <http://www.nilu.no/projects/ccc/>. Information about the EMEP network and measurement data can also be found at <http://www.emep.int>.

10. References

- Aas, W., Nizzetto, P.B. (2015) Heavy metals and POP measurements, 2013. Kjeller, NILU (EMEP/CCC-Report 3/2015).
- Cavalli, F., Putaud, J.-P., Yttri, K.E. (2015) Results of the fifth interlaboratory comparison of analytical methods for carbonaceous particulate matter within EMEP. Kjeller, NILU (EMEP/CCC-Report 5/2015).
- EMEP/CCC (2014) Manual for sampling and chemical analysis. Kjeller, NILU (EMEP/CCC-Report 1/2014).
URL: <http://www.nilu.no/projects/ccc/manual/index.html> [Accessed 8 September 2015].
- Fagerli, H., Tsyro, S., Simpson, D., Schulz, M., Gauss, M., Jonson, J.E., Benedictow, A., Wind, P., Nyíri, A., Steensen, B.M., Valiyaveetil, S., Aas, W., Hjellbrekke, A.-G., Solberg, S., Stebel, K., Tørseth, K., Yttri, K.E., Mareckova, K., Wankmüller, R., Pinterits, M., Ullrich, B., Posch, M., Denier van der Gon, H., Alastuey, A., Theys, N. (2015) Transboundary particulate matter, photo-oxidants, acidifying and eutrophying components. Oslo, Norwegian Meteorological Institute - MSC-W (EMEP status report 1/2015).
- Hjellbrekke, A.-G., Solberg, S. (2015) Ozone measurements 2013. Kjeller, NILU (EMEP/CCC-Report 2/2015).
- Solberg, S. (2015) VOC measurements 2012 and 2013. Kjeller, NILU (EMEP/CCC-Report 4/2015).
- UNECE (2009) Progress in activities in 2009 and future work. Measurements and modelling (acidification, eutrophication, photooxidants, heavy metals, particulate matter and persistent organic pollutants). Draft revised monitoring strategy. Geneva, UNECE (ECE/EB.AIR/GE.1/2009/15). **URL:** <http://www.unece.org/fileadmin/DAM/env/documents/2009/EB/ge1/ece.eb.air.ge.1.2009.15.e.pdf> [Accessed 8 September 2015].

11. Acknowledgements

A large number of co-workers in participating countries have been involved in the many steps of collection of EMEP's measurement 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 the secretarial work, and far beyond, has been performed by Berit Modalen. Rita Larsen Våler, Ann Mari Fjæraa and Mona Waagsbø have been very helpful with data flow and database maintenance.

12. List of participating institutions

Armenia	Environmental Impact Monitoring Center
Austria	Umweltbundesamt
Belarus	Institute for Problems of Natural Resources and Ecology
Belgium	CELINE - IRCEL
Commission of the European Communities	Joint Research Center. Ispra Establishment
Croatia	Meteorological and Hydrological Service of Croatia
Cyprus	Ministry of Labour and Social Insurance
Czech Republic	Czech Hydrometeorological Institute
Denmark	Department of Environmental Science, Aarhus University
Estonia	Estonian Environmental Research Laboratory Ltd.
Finland	Finnish Meteorological Institute (FMI)
France	I' Ecole des Mines de Douai
Georgia	National Environmental Agency
Germany	Umweltbundesamt Leibniz Institute for Tropospheric Research
Greece	Ministry of Environmental Physical Planning and Public Works University of Crete
Hungary	Meteorological Service, Institute for Atmospheric Physics, Dep. for Air Chemistry
Iceland	The Icelandic Meteorological Office
Ireland	Meteorological Service H.Q. Environmental Protection Agency (EPA)
Italy	C.N.R. Istituto Inquinamento Atmosferico
Kazakhstan	Hydrometeorological Monitoring
Latvia	Latvian Environment, Geology and Meteorology Agency
Lithuania	Center for Physical Sciences and Technology
Macedonia	Ministry of Environment and Physical Planning
Moldova	State Hydrometeorological Service
Montenegro	Hydrometeorological Institute of Montenegro
Netherlands	National Institute for Public Health and Environmental Protection (RIVM)
Norway	NILU - Norwegian Institute for Air Research
Poland	Institute of Meteorology and Water Management Institute of Environmental Protection
Portugal	Instituto de Meteorologica
Romania	National Environmental Protection Agency
Russian Federation	Institute of Global Climate and Ecology
Serbia	Federal Hydrometeorological Institute
Slovakia	Slovak Hydrometeorological Institute
Slovenia	Slovenian Environment Agency
Spain	Dirección General de Calidad y Evaluación Ambiental
Sweden	Swedish Environmental Research Institute (IVL)
Switzerland	Swiss Federal Laboratory of Testing Materials and Research (EMPA)
United Kingdom	Ricardo-AEA

Annex 1

Maps over Europe

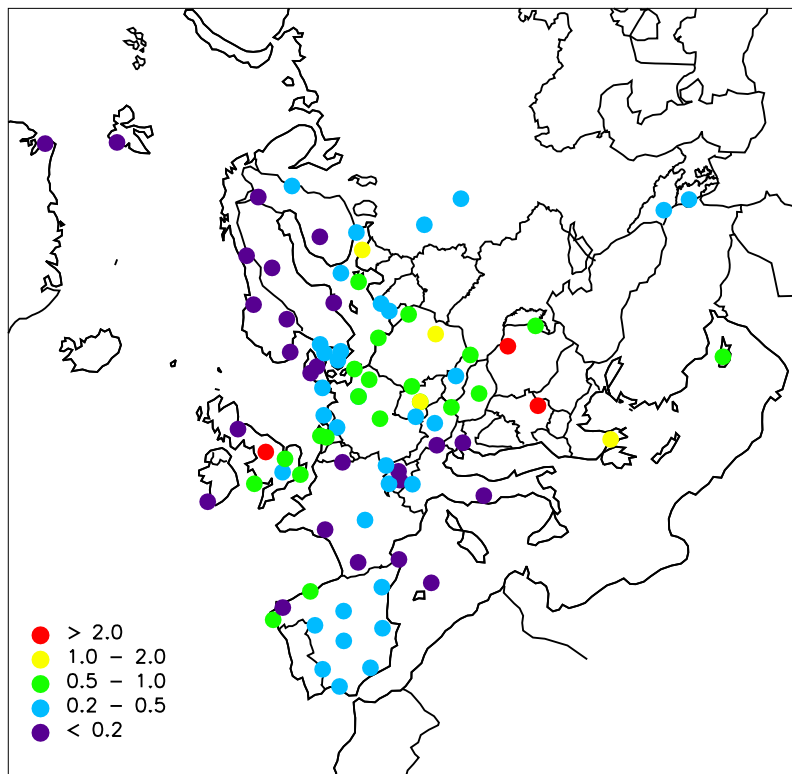


Figure 1.1: Geographical distribution of sulphur dioxide 2013. Unit: $\mu\text{g S}/\text{m}^3$.

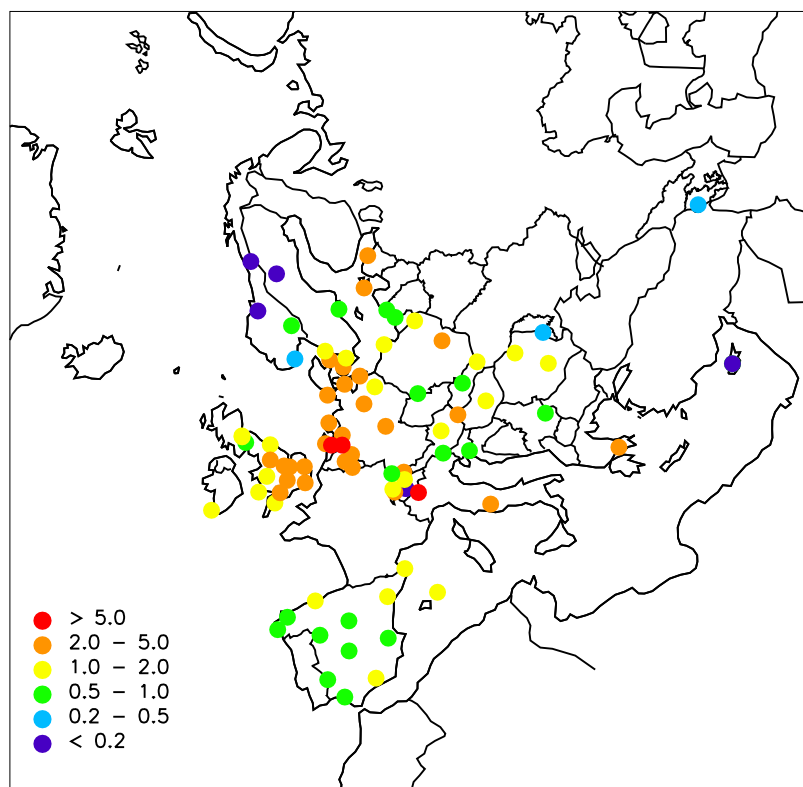


Figure 1.2: Geographical distribution of nitrogen dioxide 2013. Unit: $\mu\text{g N}/\text{m}^3$.

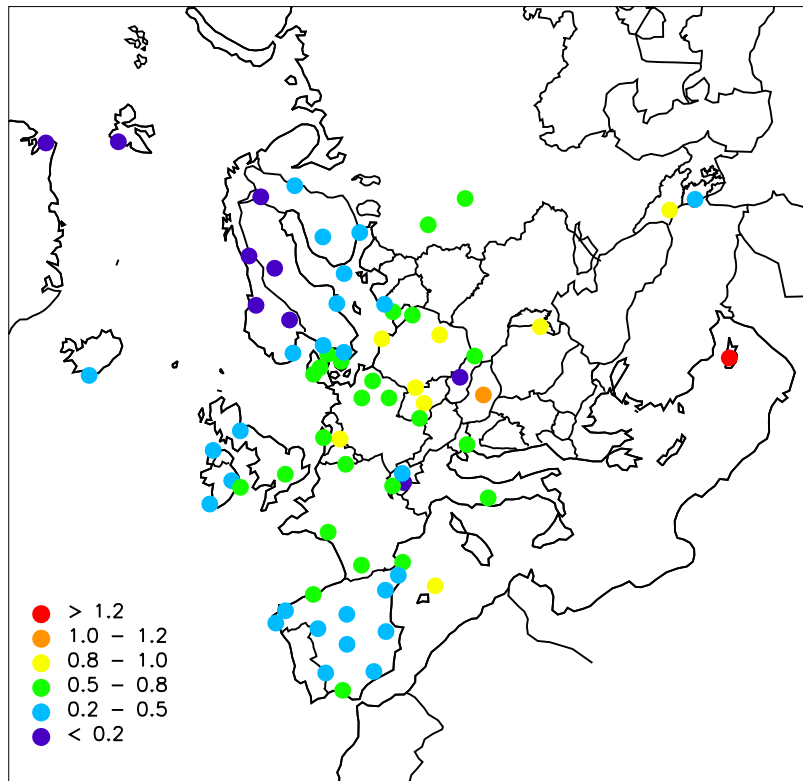


Figure 1.3: Geographical distribution of sulphate in aerosols 2013. Unit: $\mu\text{g S/m}^3$.

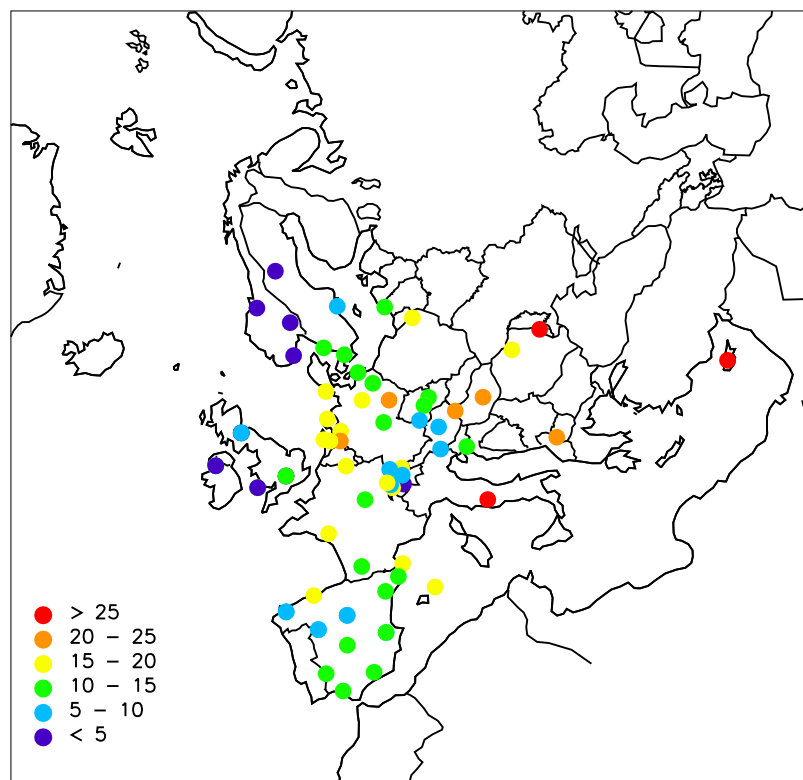


Figure 1.4: Geographical distribution of PM_{10} 2013. Unit: $\mu\text{g/m}^3$.

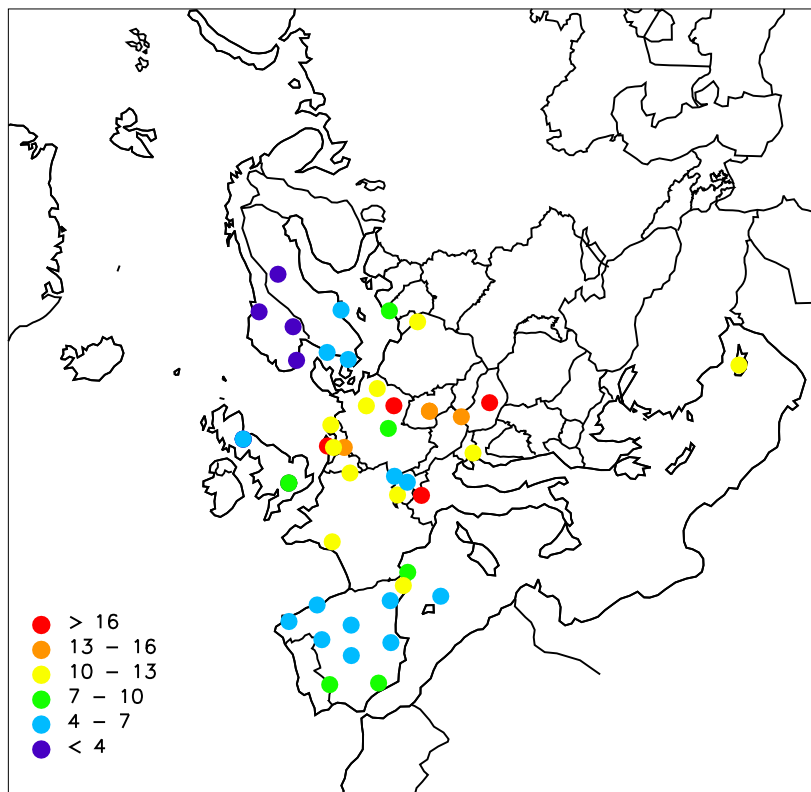


Figure 1.5: Geographical distribution of PM_{2.5} 2013. Unit: $\mu\text{g}/\text{m}^3$.

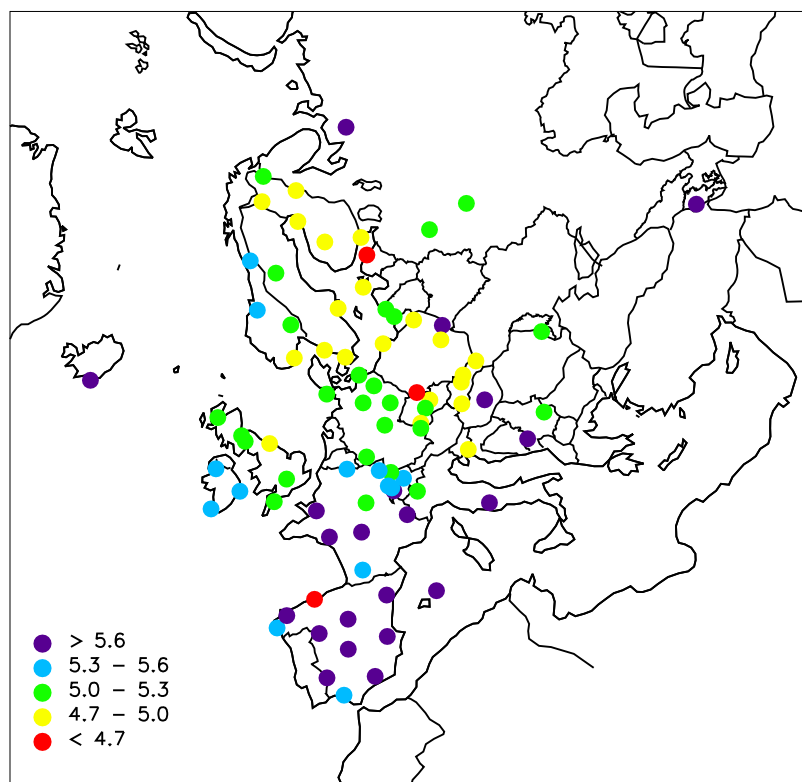


Figure 1.6: Geographical distribution of pH in precipitation 2013. Unit: pH units.

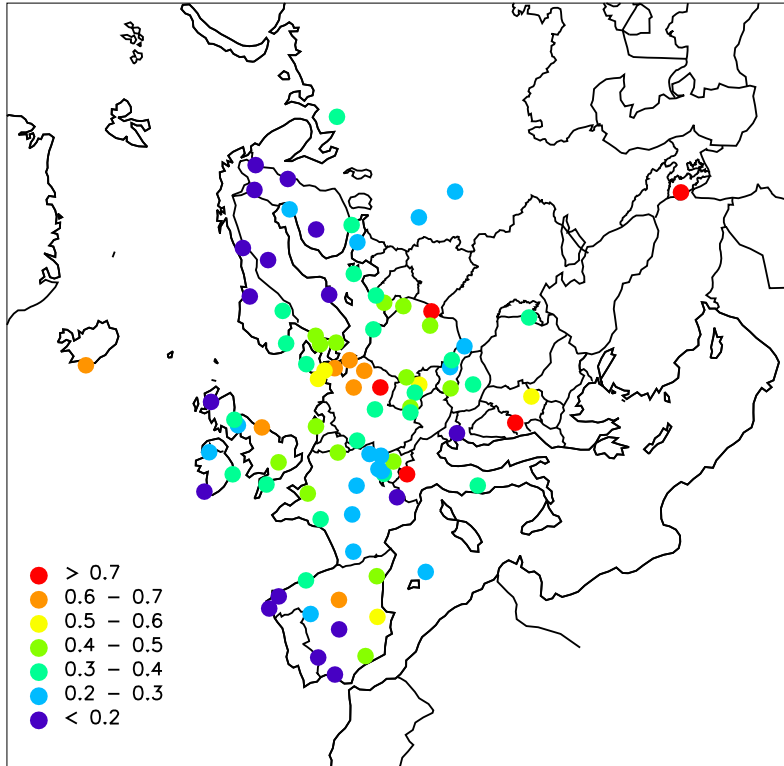


Figure 1.7: Geographical distribution of ammonium in precipitation 2013.
Unit: mg N/l.

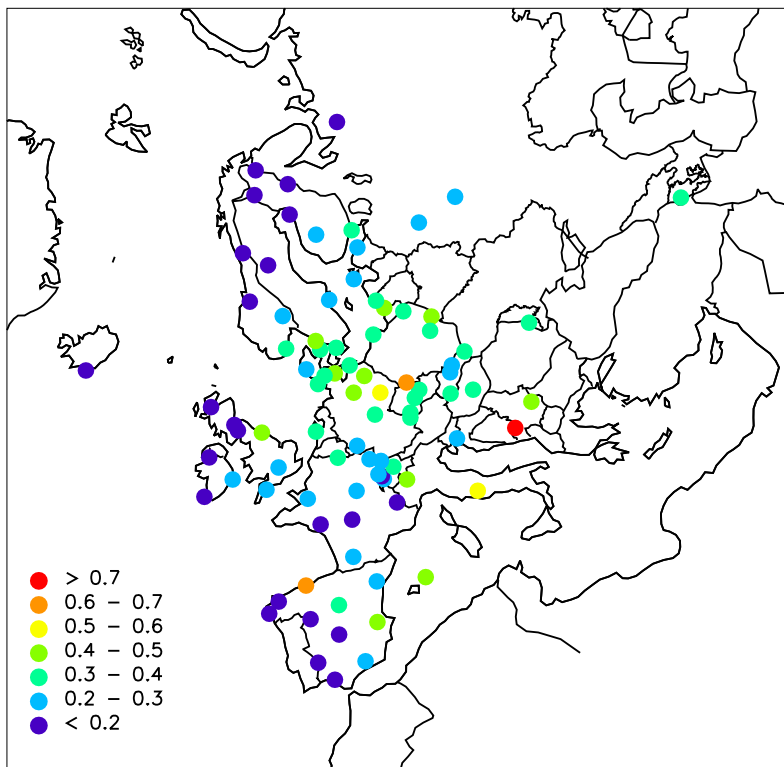


Figure 1.8: Geographical distribution of nitrate in precipitation 2013.
Unit: mg N/l.

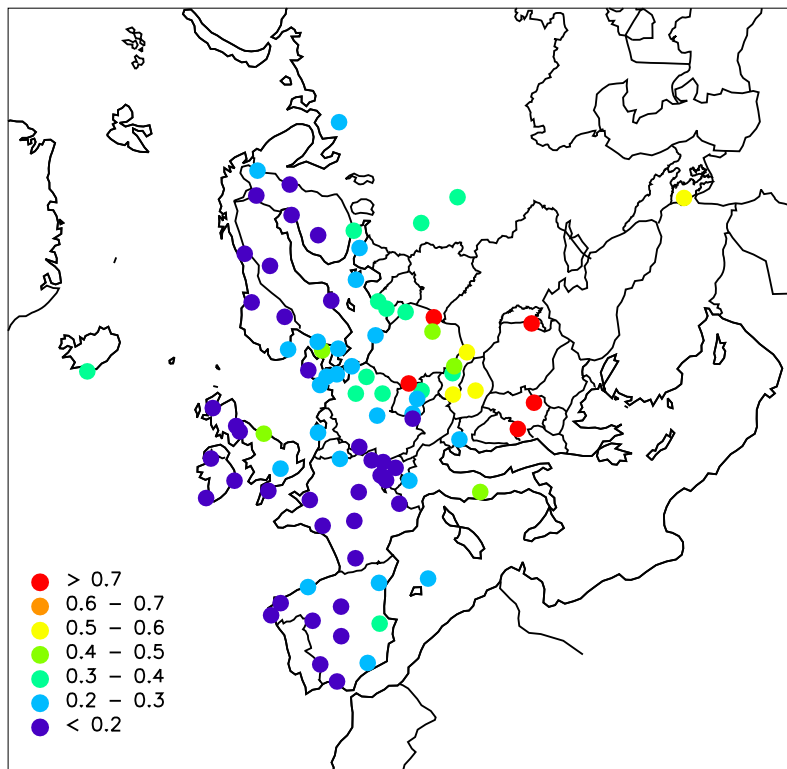


Figure 1.9: Geographical distribution of sulphate in precipitation 2013 (corrected for sea spray). Unit: mg S/l.

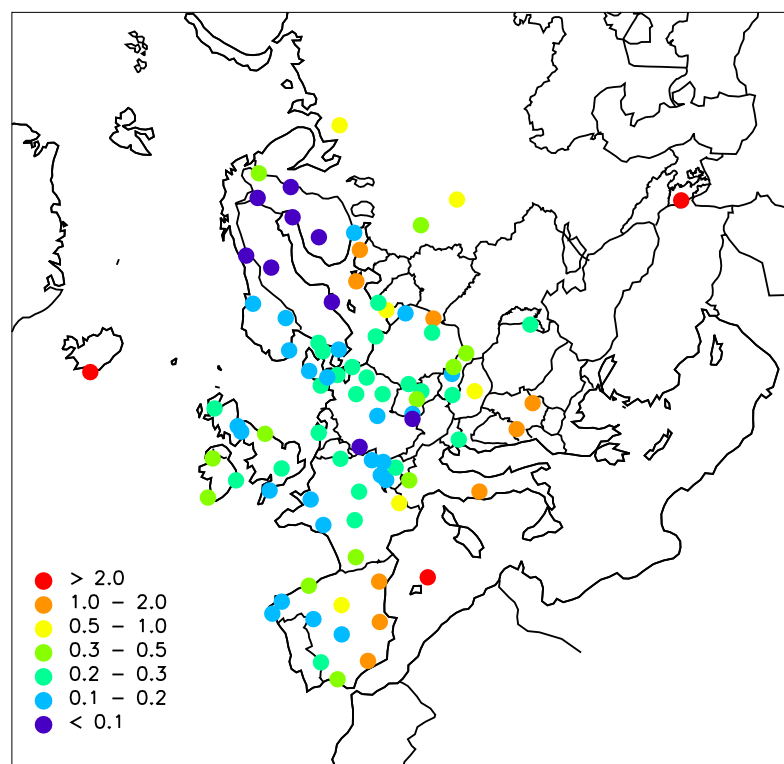


Figure 1.10: Geographical distribution of calcium in precipitation 2013. Unit: mg/l.

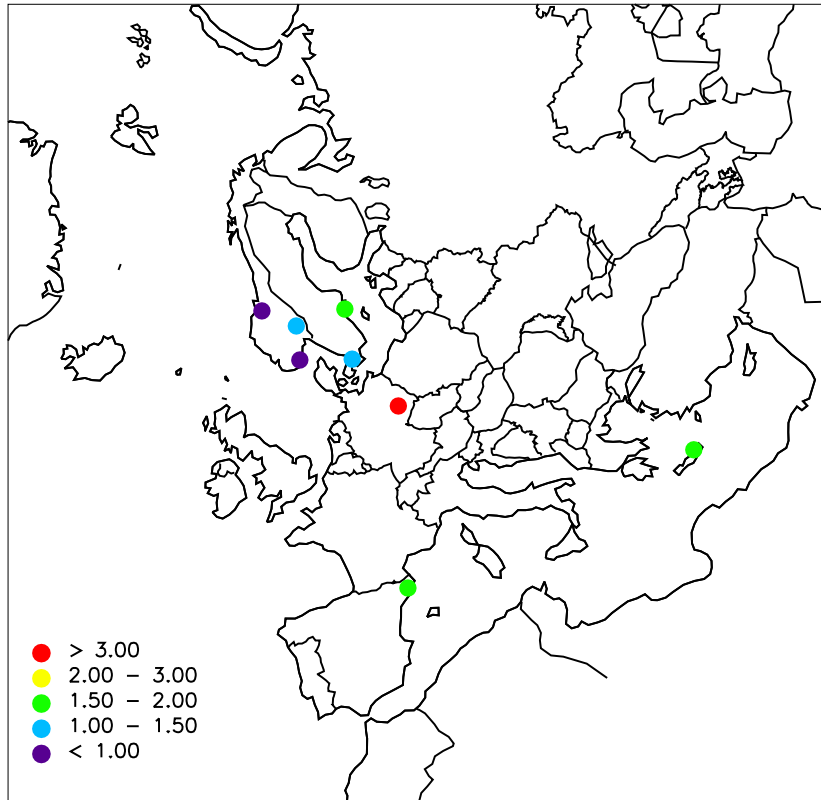


Figure 1.11: Geographical distribution of OC in PM₁₀ 2013. Unit: $\mu\text{g}/\text{m}^3$.

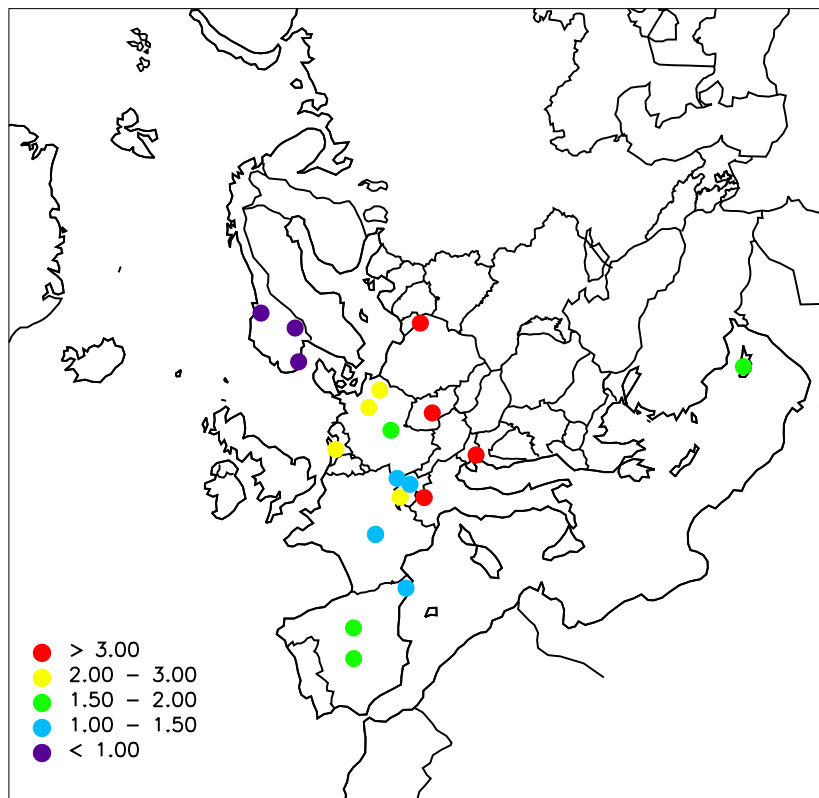


Figure 1.12: Geographical distribution of OC in PM_{2.5} 2013. Unit: $\mu\text{g}/\text{m}^3$.

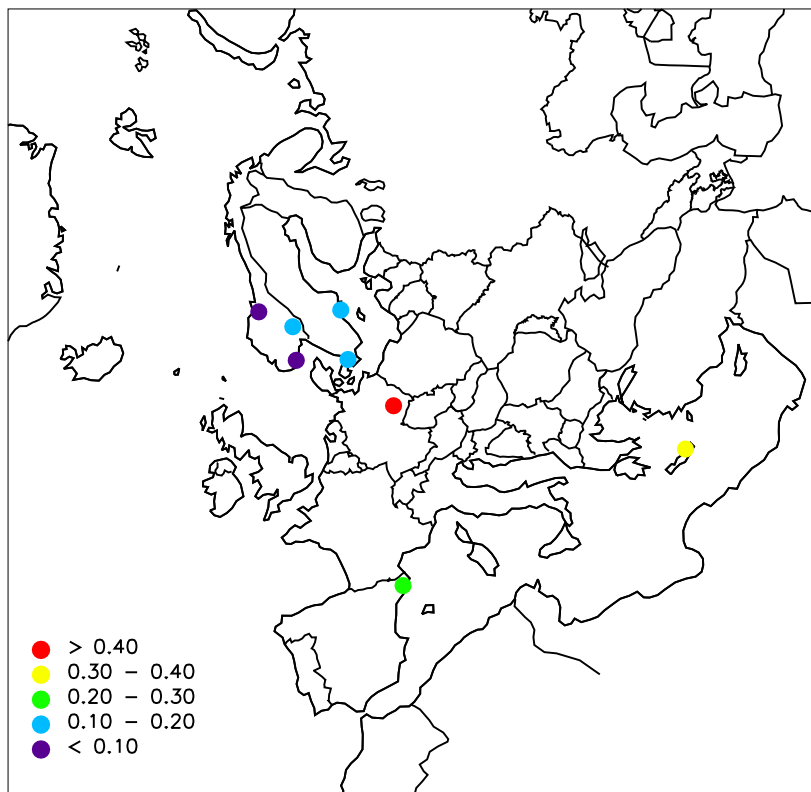


Figure 1.13: Geographical distribution of EC in PM₁₀ 2013. Unit: $\mu\text{g}/\text{m}^3$.

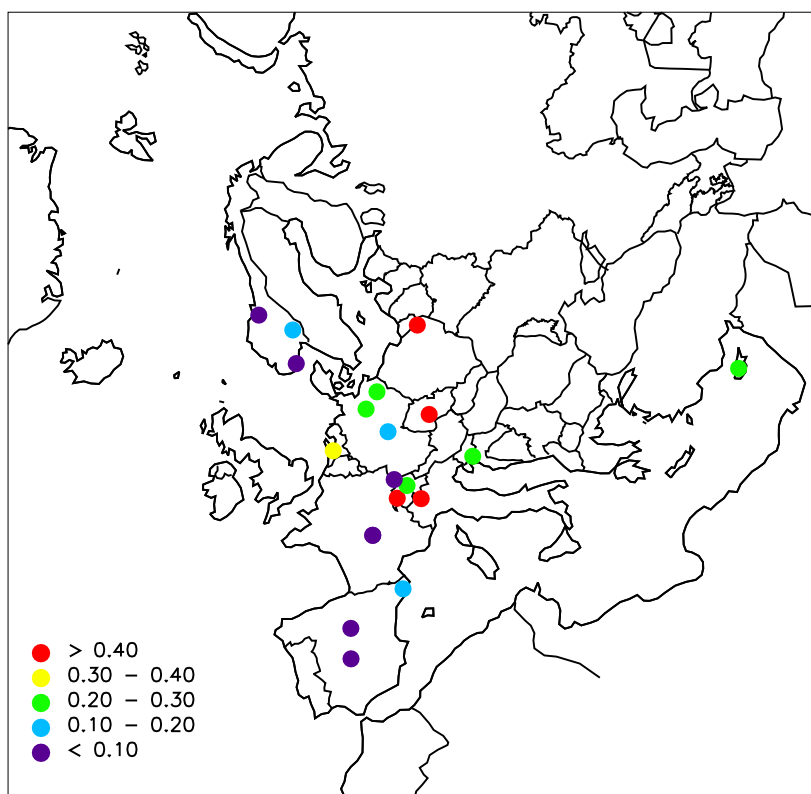


Figure 1.14: Geographical distribution of EC in PM_{2.5} 2013. Unit: $\mu\text{g}/\text{m}^3$.

Annex 2

Annual statistics on precipitation data

AM0001R Amberd

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	3.03	0.27	19.34	709.4	100.0	0	69
Cl-	precip	0.56	0.01	2.33	131.6	91.3	0	64
K+	precip	0.34	0.01	1.56	79.8	89.2	0	63
Mg++	precip	0.16	0.01	0.79	38.6	100.0	0	69
NH4+	precip	0.75	0.05	2.48	174.8	96.8	2	65
NO3-	precip	0.33	0.00	1.69	77.0	100.0	0	69
Na+	precip	0.66	0.02	6.39	153.7	100.0	0	69
Precip off	precip	-	0.00	9.40	234.4	99.7	0	133
SO4--	precip	0.64	0.20	2.34	148.9	100.0	0	69
SO4-- corr	precip	0.59	-0.02	2.19	137.5	100.0	0	69
cond	precip	28.56	4.60	90.40	6695.6	98.3	0	68
pH	precip	6.93	6.23	7.78	27.4	100.0	0	69

BY0004R Vysokoe

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.82	0.01	16.00	1352.4	71.3	0	86
Cl-	precip	0.89	0.30	5.80	662.3	44.4	0	48
K+	precip	0.63	0.01	32.50	467.2	71.2	0	85
Mg++	precip	0.23	0.04	1.12	167.6	71.3	0	86
NH4+	precip	0.84	0.04	5.41	624.2	70.8	0	84
NO3-	precip	0.43	0.02	2.56	315.3	71.0	0	84
Na+	precip	0.75	0.01	12.90	559.6	71.2	0	85
Precip	precip	-	0.00	68.80	741.7	99.9	0	365
SO4--	precip	0.89	0.15	4.77	659.3	71.3	0	86
SO4-- corr	precip	0.83	0.03	4.68	616.1	71.3	0	86
cond	precip	57.86	10.00	105.00	42917.5	71.2	0	84
pH	precip	5.82	5.20	6.90	1132.2	50.0	0	72

CH0002R Payerne

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.01	1.61	208.4	100.0	0	47
Cl-	precip	0.10	0.02	0.48	99.8	100.0	0	47
K+	precip	0.03	0.00	0.18	31.7	100.0	0	47
Mg++	precip	0.02	0.00	0.10	16.2	100.0	0	47
NH4+	precip	0.31	0.05	2.36	320.3	100.0	0	47
NO3-	precip	0.21	0.05	1.23	220.4	100.0	0	47
Na+	precip	0.05	0.01	0.22	51.9	100.0	0	47
Precip	precip	-	0.00	74.60	1042.7	100.0	0	53
SO4--	precip	0.12	0.02	0.46	127.9	100.0	0	47
SO4-- corr	precip	0.12	0.02	0.46	123.3	100.0	0	47
cond	precip	5.92	1.98	31.90	6177.4	100.0	0	47
pH	precip	5.64	4.73	6.79	2375.6	100.0	0	47

CH0004R Chaumont

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	1.83	210.7	100.0	0	47
Cl-	precip	0.14	0.02	4.66	173.1	100.0	0	47
K+	precip	0.03	0.00	0.26	39.3	100.0	0	47
Mg++	precip	0.02	0.00	0.10	19.1	100.0	0	47
NH4+	precip	0.22	0.03	1.28	261.0	100.0	0	47
NO3-	precip	0.19	0.04	1.41	231.5	100.0	0	47
Na+	precip	0.08	0.01	3.07	101.0	100.0	0	47
Precip	precip	-	0.00	74.30	1208.4	94.5	0	50
SO4--	precip	0.11	0.01	0.61	138.9	100.0	0	47
SO4-- corr	precip	0.11	0.01	0.59	130.2	100.0	0	47
cond	precip	5.99	2.14	41.55	7243.9	100.0	0	47
pH	precip	5.36	4.18	6.61	5284.0	100.0	0	47

CH0005R Rigi

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.01	2.14	247.7	99.9	0	49
Cl-	precip	0.12	0.01	4.07	150.0	99.9	0	49
K+	precip	0.04	0.01	0.71	47.3	99.9	0	49
Mg++	precip	0.02	0.00	0.16	20.9	99.9	0	49
NH4+	precip	0.42	0.08	5.63	505.8	99.9	0	49
NO3-	precip	0.33	0.08	4.48	397.2	99.9	0	49
Na+	precip	0.08	0.01	3.09	90.5	99.9	0	49
Precip	precip	-	0.00	130.20	1200.0	98.4	0	52
SO4--	precip	0.18	0.02	1.86	214.3	99.9	0	49
SO4-- corr	precip	0.17	0.02	1.84	206.7	99.9	0	49
cond	precip	8.25	2.50	68.31	9899.0	100.0	0	50
pH	precip	5.41	4.32	6.75	4680.7	100.0	0	50

CZ0001R Svratouch

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.26	0.02	2.99	199.0	96.3	0	36
Cl-	precip	0.12	0.04	0.67	95.7	96.3	0	36
K+	precip	0.06	0.00	0.46	44.5	96.3	1	36
Mg++	precip	0.03	0.00	0.15	19.4	96.3	1	36
NH4+	precip	0.51	0.14	1.81	388.8	96.4	0	37
NO3-	precip	0.36	0.15	1.33	275.2	96.3	0	35
Na+	precip	0.06	0.00	0.55	46.5	96.3	3	36
Precip off	precip	-	0.00	101.10	764.7	99.9	0	53
SO4--	precip	0.40	0.14	1.18	306.2	96.3	0	36
SO4-- corr	precip	0.39	0.14	1.17	301.9	96.3	0	36
cond	precip	17.31	8.34	83.90	13241.7	96.3	0	36
pH	precip	4.92	4.16	6.61	9121.8	96.3	0	36

CZ0003R Kosetice

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.42	0.02	2.76	312.8	89.0	0	71
Cl-	precip	0.18	0.03	1.56	134.5	89.0	0	71
K+	precip	0.11	0.00	2.51	79.5	89.0	5	71
Mg++	precip	0.02	0.00	0.15	12.9	89.0	2	71
NH4+	precip	0.36	0.04	2.54	268.0	89.0	0	71
NO3-	precip	0.33	0.10	1.48	248.7	89.0	0	71
Na+	precip	0.04	0.00	0.45	33.4	89.0	7	71
Precip off	precip	-	0.00	58.00	748.7	99.9	0	365
SO4--	precip	0.29	0.05	1.87	217.4	89.0	0	71
SO4-- corr	precip	0.28	0.05	1.86	213.0	89.0	0	71
cond	precip	13.85	4.98	56.90	10370.4	89.0	0	71
pH	precip	5.01	4.24	6.50	7354.5	89.0	0	71

CZ0005R Churanov

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.01	1.23	137.7	95.6	4	38
Cl-	precip	0.19	0.02	3.17	207.4	95.6	0	38
K+	precip	0.04	0.01	0.38	40.1	95.6	0	38
Mg++	precip	0.04	0.01	0.38	40.1	95.6	0	38
NH4+	precip	0.41	0.04	1.86	446.7	95.0	0	36
NO3-	precip	0.35	0.12	1.31	389.6	95.6	0	38
Na+	precip	0.07	0.00	0.91	71.8	95.6	5	38
Precip off	precip	-	0.00	175.50	1097.2	99.9	0	53
SO4--	precip	0.27	0.08	1.26	290.9	95.6	0	38
SO4-- corr	precip	0.26	0.08	1.17	283.9	95.6	0	38
cond	precip	14.09	6.17	95.10	15463.9	95.6	0	38
pH	precip	4.88	3.80	6.40	14365.7	95.6	0	38

DE0001R Westerland

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.02	1.00	219.7	97.2	1	43
Cl-	precip	8.06	0.42	37.99	6172.9	97.2	0	43
K+	precip	0.20	0.03	0.78	151.9	97.2	0	43
Mg++	precip	0.55	0.04	2.53	417.7	97.2	0	43
NH4+	precip	0.56	0.10	2.08	432.6	97.2	0	43
NO3-	precip	0.39	0.08	3.34	300.3	97.2	0	43
Na+	precip	4.46	0.20	21.00	3417.4	97.2	0	43
Precip	precip	-	0.00	61.30	765.6	99.5	0	53
SO4--	precip	0.61	0.15	1.94	465.6	97.2	0	43
SO4-- corr	precip	0.23	0.06	0.91	180.0	97.2	0	43
cond	precip	40.14	10.20	149.50	30732.2	97.0	0	42
pH	precip	5.28	4.18	6.34	4004.0	97.0	0	42

DE0002R Waldhof

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.01	3.65	162.0	97.2	25	118
Cl-	precip	1.03	0.03	44.30	664.3	98.6	0	119
K+	precip	0.08	0.01	0.87	49.0	98.6	23	119
Mg++	precip	0.08	0.01	2.91	52.9	98.6	0	119
NH4+	precip	0.63	0.05	3.37	403.7	98.6	0	119
NO3-	precip	0.40	0.05	1.75	259.5	98.6	0	119
Na+	precip	0.63	0.01	24.00	404.1	98.6	0	119
Precip	precip	-	0.00	31.70	642.7	99.9	0	365
SO4--	precip	0.35	0.04	2.77	223.9	98.6	0	119
SO4-- corr	precip	0.30	0.04	2.74	194.0	98.6	0	119
cond	precip	15.29	3.60	172.30	9825.4	96.2	0	117
pH	precip	5.08	4.00	7.00	5297.0	97.3	0	118

DE0003R Schauinsland

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.00	4.15	249.1	91.6	54	164
Cl-	precip	0.21	0.03	3.00	397.1	91.6	0	164
K+	precip	0.02	0.00	0.53	46.9	91.6	38	164
Mg++	precip	0.01	0.00	0.22	26.8	91.6	75	164
NH4+	precip	0.29	0.01	2.26	550.0	91.6	1	164
NO3-	precip	0.22	0.03	2.13	422.9	91.6	0	164
Na+	precip	0.16	0.01	1.84	306.8	91.6	0	164
Precip	precip	-	0.00	56.20	1897.9	99.9	0	365
SO4--	precip	0.15	0.03	1.55	283.2	91.6	0	164
SO4-- corr	precip	0.14	0.01	1.53	263.4	91.6	0	164
cond	precip	8.15	2.60	67.80	15464.1	91.8	0	161
pH	precip	5.19	4.00	6.90	12137.3	91.9	0	162

DE0004R Deuselbach

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.07	0.00	3.01	61.7	99.8	16	44
Cl-	precip	0.26	0.04	5.32	234.5	99.8	0	44
K+	precip	0.02	0.00	0.21	15.9	99.8	15	44
Mg++	precip	0.02	0.00	0.35	15.2	99.8	11	44
NH4+	precip	0.31	0.01	1.67	280.3	99.8	0	44
NO3-	precip	0.26	0.05	1.55	235.8	99.8	0	44
Na+	precip	0.15	0.01	2.70	133.5	99.8	0	44
Precip	precip	-	0.00	103.40	891.0	99.5	0	53
SO4--	precip	0.19	0.05	0.89	165.2	99.8	0	44
SO4-- corr	precip	0.17	0.04	0.84	154.4	99.8	0	44
cond	precip	8.14	2.80	37.10	7254.3	99.8	0	44
pH	precip	5.17	4.45	6.63	6062.1	99.8	0	44

DE0005R Brotjacklriegel

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.00	0.66	103.5	100.0	24	48
Cl-	precip	0.17	0.04	2.11	190.9	100.0	0	48
K+	precip	0.04	0.00	0.22	42.7	100.0	10	48
Mg++	precip	0.02	0.00	0.15	17.5	100.0	16	48
NH4+	precip	0.38	0.07	3.28	436.1	100.0	0	48
NO3-	precip	0.34	0.10	2.08	389.2	100.0	0	48
Na+	precip	0.11	0.00	1.27	129.6	100.0	1	48
Precip	precip	-	0.00	113.60	1136.2	99.5	0	53
SO4--	precip	0.19	0.06	1.92	216.0	100.0	0	48
SO4-- corr	precip	0.18	0.05	1.90	206.6	100.0	0	48
cond	precip	9.55	4.90	46.20	10852.8	100.0	0	48
pH	precip	5.03	4.23	6.27	10506.8	100.0	0	48

DE0007R Neuglobsow

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.01	2.88	111.2	97.2	18	117
Cl-	precip	0.49	0.05	8.99	265.8	97.2	0	117
K+	precip	0.11	0.01	1.37	56.9	97.2	13	117
Mg++	precip	0.05	0.01	0.59	26.4	97.2	0	117
NH4+	precip	0.66	0.01	4.25	357.8	97.2	2	117
NO3-	precip	0.44	0.07	2.91	239.9	97.2	0	117
Na+	precip	0.34	0.00	4.90	181.9	97.2	1	117
Precip	precip	-	0.00	25.30	541.1	99.9	0	365
SO4--	precip	0.34	0.05	2.17	185.8	97.2	0	117
SO4-- corr	precip	0.32	0.05	2.14	172.0	97.2	0	117
cond	precip	14.05	3.60	71.00	7604.4	96.2	0	115
pH	precip	5.10	4.21	6.69	4319.8	97.1	0	116

DE0008R Schmücke

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.01	1.07	130.7	99.9	16	46
Cl-	precip	0.29	0.06	3.88	332.0	99.9	0	46
K+	precip	0.03	0.01	0.26	33.0	99.9	9	46
Mg++	precip	0.03	0.01	0.27	30.5	99.9	0	46
NH4+	precip	0.36	0.09	3.22	404.0	99.9	0	46
NO3-	precip	0.33	0.14	2.10	375.0	99.9	0	46
Na+	precip	0.16	0.01	2.49	183.8	99.9	0	46
Precip	precip	-	0.00	103.70	1126.2	99.5	0	53
SO4--	precip	0.24	0.09	1.61	271.5	99.9	0	46
SO4-- corr	precip	0.23	0.08	1.56	257.4	99.9	0	46
cond	precip	10.03	4.30	50.30	11293.3	99.9	0	46
pH	precip	5.08	4.57	6.43	9356.0	99.9	0	46

DE0009R Zingst

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.02	2.37	118.0	95.6	1	44
Cl-	precip	1.15	0.25	5.22	602.7	95.6	0	44
K+	precip	0.10	0.02	0.76	52.5	95.6	0	44
Mg++	precip	0.10	0.03	0.74	51.3	95.6	0	44
NH4+	precip	0.66	0.07	4.81	345.3	95.6	0	44
NO3-	precip	0.40	0.07	2.92	207.8	95.6	0	44
Na+	precip	0.67	0.13	4.51	352.1	95.6	0	44
Precip	precip	-	0.00	51.70	522.7	99.5	0	53
SO4--	precip	0.34	0.09	3.00	175.5	95.6	0	44
SO4-- corr	precip	0.28	0.08	2.62	146.4	95.6	0	44
cond	precip	15.79	5.90	92.40	8251.4	95.6	0	44
pH	precip	5.25	4.32	7.07	2956.9	95.6	0	44

DE0044R Melpitz

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.24	0.00	0.86	141.2	100.0	3	40
Cl-	precip	0.36	0.10	1.95	215.9	100.0	0	40
K+	precip	0.04	0.00	0.39	22.1	100.0	11	40
Mg++	precip	0.03	0.00	0.12	18.6	100.0	3	40
NH4+	precip	0.79	0.16	3.14	471.8	100.0	0	40
NO3-	precip	0.54	0.14	1.87	324.1	100.0	0	40
Na+	precip	0.15	0.03	1.05	89.6	100.0	0	40
Precip	precip	-	0.00	91.20	595.4	99.5	0	53
SO4--	precip	0.40	0.14	2.09	238.4	100.0	0	40
SO4-- corr	precip	0.38	0.12	2.07	229.1	100.0	0	40
cond	precip	13.76	4.60	39.10	8191.1	100.0	0	40
pH	precip	5.06	4.28	6.28	5200.6	100.0	0	40

DK0005R Keldsnor

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.05	0.89	120.7	91.8	1	19
Cl-	precip	2.92	0.37	21.29	1545.8	99.7	0	21
K+	precip	0.23	0.05	1.59	119.7	86.7	0	19
Mg++	precip	0.20	0.02	1.44	106.0	95.4	2	20
NH4+	precip	0.62	0.20	3.41	326.1	88.9	0	20
NO3-	precip	0.41	0.21	1.79	215.3	99.7	0	21
Precip	precip	-	0.00	64.87	528.8	99.5	0	24
SO4--	precip	0.40	0.21	1.52	210.4	99.7	0	21
SO4-- corr	precip	0.26	0.10	1.45	134.9	99.7	0	21

DK0008R Anholt

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.05	0.54	89.1	87.9	1	21
Cl-	precip	5.76	0.83	32.40	2270.9	100.0	0	23
K+	precip	0.12	0.02	0.23	45.9	74.5	1	20
Mg++	precip	0.31	0.06	0.79	120.6	87.9	0	21
NH4+	precip	0.42	0.11	1.41	164.3	100.0	0	23
NO3-	precip	0.40	0.14	1.77	156.1	100.0	0	23
Precip	precip	-	0.00	52.79	394.0	91.2	0	22
SO4--	precip	0.65	0.17	4.32	257.4	100.0	0	23
SO4-- corr	precip	0.46	0.08	4.24	182.0	100.0	0	23

DK0022R Sepstrup Sande

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.03	0.89	85.0	79.0	3	17
Cl-	precip	1.60	0.65	7.46	775.2	89.2	0	19
K+	precip	0.09	0.02	0.21	44.7	79.0	4	17
Mg++	precip	0.11	0.05	0.49	51.6	84.8	0	18
NH4+	precip	0.58	0.23	2.38	281.3	99.3	0	19
NO3-	precip	0.37	0.16	1.52	177.3	100.0	0	20
Precip	precip	-	0.00	60.86	484.9	99.5	0	24
SO4--	precip	0.31	0.16	1.10	152.1	89.2	0	19
SO4-- corr	precip	0.25	0.12	0.95	118.9	89.2	0	19

DK0031R Ulborg

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.09	0.37	100.4	89.9	0	17
Cl-	precip	3.47	0.71	11.15	1884.2	95.2	0	19
K+	precip	0.15	0.05	0.31	81.2	89.9	0	17
Mg++	precip	0.24	0.07	0.74	128.5	89.1	0	16
NH4+	precip	0.32	0.09	1.13	173.3	95.2	0	19
NO3-	precip	0.28	0.11	1.35	150.6	95.2	0	19
Precip	precip	-	0.00	104.82	542.8	95.9	0	23
SO4--	precip	0.32	0.16	0.72	175.7	95.2	0	19
SO4-- corr	precip	0.17	0.09	0.56	91.6	95.2	0	19

EE0009R Lahemaa

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.16	0.15	3.70	612.4	100.0	0	139
Cl-	precip	0.32	0.05	2.50	170.1	99.8	14	138
K+	precip	0.05	0.01	0.72	24.9	100.0	20	139
Mg++	precip	0.14	0.01	0.80	75.1	100.0	4	139
NH4+	precip	0.20	0.01	2.60	107.2	100.0	17	139
NO3-	precip	0.25	0.01	1.90	131.6	100.0	12	139
Na+	precip	0.26	0.03	3.20	135.5	100.0	0	139
Precip	precip	-	0.00	20.38	526.5	99.9	226	365
SO4--	precip	0.25	0.01	1.44	130.6	100.0	0	139
SO4-- corr	precip	0.23	0.00	1.43	119.2	100.0	0	139
cond	precip	8.80	5.00	78.00	4632.6	99.5	71	135
pH	precip	4.69	3.64	6.99	10722.4	99.5	0	135

EE0011R Vilsandi

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.85	0.40	22.00	1090.0	100.0	0	23
Cl-	precip	1.40	0.10	5.80	823.3	100.0	0	23
K+	precip	0.23	0.03	2.65	137.1	100.0	0	23
Mg++	precip	0.52	0.14	9.28	307.4	100.0	0	23
NH4+	precip	0.40	0.03	2.27	234.3	100.0	0	23
NO3-	precip	0.30	0.03	1.40	176.3	100.0	0	23
Na+	precip	0.95	0.09	3.40	560.4	100.0	0	23
Precip	precip	-	0.00	99.20	587.7	85.5	29	52
SO4--	precip	0.36	0.11	1.20	213.2	100.0	0	23
SO4-- corr	precip	0.28	0.07	1.14	166.6	100.0	0	23
cond	precip	14.50	5.00	39.00	8523.4	100.0	6	23
pH	precip	4.76	4.20	6.10	10284.7	100.0	0	23

ES0001R San Pablo de los Montes

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.14	0.05	1.59	102.0	98.6	18	68
Cl-	precip	0.37	0.15	2.50	275.8	99.8	35	80
K+	precip	0.07	0.03	1.01	51.9	98.6	32	68
Mg++	precip	0.04	0.01	0.17	27.4	98.6	5	68
NH4+	precip	0.13	0.02	1.89	98.6	99.3	19	74
NO3-	precip	0.09	0.04	0.94	68.5	99.8	36	80
Na+	precip	0.21	0.05	1.72	159.9	98.6	16	68
Precip	precip	-	0.00	45.60	750.4	99.9	0	365
SO4--	precip	0.10	0.05	0.98	77.3	99.8	32	80
SO4-- corr	precip	0.08	-0.01	0.95	63.2	99.8	32	80
cond	precip	5.39	2.10	29.60	4043.4	100.0	0	84
pH	precip	5.62	4.68	6.35	1782.3	99.4	0	83

ES0005R Noya

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.05	3.31	452.3	99.6	48	148
Cl-	precip	3.05	0.15	36.92	7121.3	100.0	10	150
K+	precip	0.11	0.03	3.10	260.8	99.6	65	148
Mg++	precip	0.23	0.01	2.10	546.3	99.6	2	148
NH4+	precip	0.06	0.02	0.89	130.5	100.0	63	150
NO3-	precip	0.08	0.04	6.20	195.1	100.0	84	150
Na+	precip	2.05	0.05	18.60	4804.5	99.6	2	148
Precip	precip	-	0.00	78.00	2338.4	99.9	0	365
SO4--	precip	0.29	0.05	5.04	685.7	100.0	12	150
SO4-- corr	precip	0.13	-0.05	3.83	299.3	100.0	12	150
cond	precip	17.45	2.60	175.60	40803.3	100.0	0	150
pH	precip	5.48	4.48	6.91	7787.2	100.0	0	150

ES0006R Mahón

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.52	0.37	27.30	794.3	99.2	0	71
Cl-	precip	25.50	1.06	270.00	8024.2	100.0	0	73
K+	precip	0.55	0.03	6.00	174.5	99.2	1	71
Mg++	precip	2.06	0.14	19.00	649.1	99.2	0	71
NH4+	precip	0.22	0.02	3.43	67.8	100.0	12	73
NO3-	precip	0.46	0.04	4.87	143.8	100.0	2	73
Na+	precip	16.44	0.65	169.00	5174.1	99.2	0	71
Precip	precip	-	0.00	23.70	314.6	99.9	0	365
SO4--	precip	1.66	0.21	13.64	520.8	100.0	0	73
SO4-- corr	precip	0.29	-1.01	6.08	91.5	100.0	0	73
cond	precip	114.29	9.00	933.00	35959.4	100.0	0	73
pH	precip	5.85	4.85	7.62	444.2	100.0	0	73

ES0007R Víznar

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.28	0.52	7.70	980.8	98.8	0	72
Cl-	precip	0.79	0.15	5.45	602.3	99.6	12	79
K+	precip	0.15	0.03	7.00	112.4	98.8	22	72
Mg++	precip	0.19	0.07	0.80	146.6	98.7	0	71
NH4+	precip	0.46	0.02	6.68	348.5	99.4	2	76
NO3-	precip	0.21	0.04	2.17	157.7	99.6	2	79
Na+	precip	0.49	0.05	1.88	371.9	98.8	9	72
Precip	precip	-	0.00	34.80	765.2	99.9	0	365
SO4--	precip	0.29	0.05	5.21	224.0	99.6	2	79
SO4-- corr	precip	0.25	0.03	4.96	192.6	99.6	2	79
cond	precip	16.07	5.30	294.90	12297.6	100.0	0	84
pH	precip	6.53	6.20	7.40	223.3	100.0	0	84

ES0008R Niembro

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.37	0.05	3.63	511.6	99.9	1	160
Cl-	precip	5.94	0.15	41.65	8137.9	100.0	2	164
K+	precip	0.15	0.03	2.10	203.9	99.9	28	160
Mg++	precip	0.47	0.06	2.80	638.8	99.9	0	160
NH4+	precip	0.36	0.05	3.40	496.4	100.0	0	163
NO3-	precip	0.66	0.04	31.48	903.1	99.8	4	163
Na+	precip	3.81	0.10	27.00	5221.7	99.9	0	160
Precip	precip	-	0.00	56.09	1369.1	99.9	0	365
SO4--	precip	0.60	0.05	3.39	821.4	100.0	1	164
SO4-- corr	precip	0.28	-0.38	2.80	389.3	100.0	1	164
cond	precip	42.37	5.30	925.00	58010.3	99.8	0	163
pH	precip	4.61	2.63	6.99	33284.8	99.8	0	163

ES0009R Campisabalos

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.67	0.05	16.00	298.2	98.6	6	97
Cl-	precip	0.34	0.15	4.59	152.3	99.7	40	108
K+	precip	0.09	0.03	0.76	41.6	98.6	53	97
Mg++	precip	0.08	0.01	0.60	35.2	98.6	4	97
NH4+	precip	0.62	0.02	15.30	278.2	99.2	2	102
NO3-	precip	0.39	0.04	20.20	174.7	99.7	7	108
Na+	precip	0.23	0.05	2.90	101.2	98.6	23	97
Precip	precip	-	0.00	20.65	446.2	99.9	0	365
SO4--	precip	0.20	0.05	2.89	88.8	99.7	31	108
SO4-- corr	precip	0.18	0.00	2.83	79.9	99.7	31	108
cond	precip	14.14	2.50	456.00	6308.0	100.0	0	115
pH	precip	5.86	4.00	7.91	621.2	100.0	0	115

ES0011R Barcarrota

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.28	0.05	1.60	164.9	100.0	3	72
Cl-	precip	1.28	0.15	15.91	765.0	100.0	11	73
K+	precip	0.15	0.03	8.70	90.0	100.0	23	72
Mg++	precip	0.11	0.03	0.70	68.2	100.0	0	72
NH4+	precip	0.10	0.02	2.63	57.9	100.0	8	72
NO3-	precip	0.10	0.04	1.72	57.8	100.0	18	73
Na+	precip	0.77	0.05	9.60	463.1	100.0	6	72
Precip	precip	-	0.00	51.16	597.7	99.9	0	365
SO4--	precip	0.19	0.05	1.70	112.5	100.0	6	73
SO4-- corr	precip	0.13	0.04	1.37	75.2	100.0	6	73
cond	precip	9.60	2.30	74.70	5736.6	100.0	0	73
pH	precip	5.79	4.93	6.62	966.6	100.0	0	73

ES0012R Zarra

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.88	0.30	10.60	645.6	98.5	0	57
Cl-	precip	0.73	0.15	25.36	250.3	99.8	10	69
K+	precip	0.10	0.03	1.90	35.0	98.5	21	57
Mg++	precip	0.17	0.04	1.70	57.7	98.5	0	57
NH4+	precip	0.51	0.02	3.08	176.1	99.4	2	64
NO3-	precip	0.46	0.04	7.19	156.6	99.8	4	69
Na+	precip	0.45	0.05	3.60	153.4	98.5	7	57
Precip	precip	-	0.00	26.23	343.6	99.9	0	365
SO4--	precip	0.42	0.05	6.55	145.8	99.8	7	69
SO4-- corr	precip	0.38	0.03	5.37	131.7	99.8	7	69
cond	precip	20.71	3.20	321.00	7116.0	100.0	0	72
pH	precip	6.37	5.87	8.08	147.4	100.0	0	72

ES0013R Penausende

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.05	4.03	122.1	99.2	31	91
Cl-	precip	0.45	0.15	3.38	301.3	99.9	28	102
K+	precip	0.09	0.03	2.30	59.1	99.2	49	91
Mg++	precip	0.05	0.02	1.10	36.5	99.2	0	91
NH4+	precip	0.26	0.02	4.06	175.8	99.7	4	98
NO3-	precip	0.15	0.04	2.35	97.6	99.9	24	102
Na+	precip	0.25	0.05	1.87	170.2	99.2	19	91
Precip	precip	-	0.00	45.58	672.2	99.9	0	365
SO4--	precip	0.13	0.05	1.98	90.5	99.9	37	102
SO4-- corr	precip	0.11	-0.02	1.88	76.1	99.9	37	102
cond	precip	8.00	2.40	169.40	5378.6	100.0	0	105
pH	precip	5.93	5.16	6.91	794.1	100.0	0	105

ES0014R Els Torns

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.04	0.16	6.80	585.4	100.0	0	57
Cl-	precip	0.37	0.15	3.52	206.5	100.0	23	57
K+	precip	0.06	0.03	0.86	36.0	100.0	24	57
Mg++	precip	0.10	0.02	2.00	56.5	100.0	0	57
NH4+	precip	0.42	0.11	3.74	239.6	100.0	0	57
NO3-	precip	0.27	0.04	1.53	152.2	100.0	2	57
Na+	precip	0.23	0.05	1.42	131.5	100.0	6	57
Precip	precip	-	0.00	78.42	563.8	99.9	0	365
SO4--	precip	0.31	0.05	1.50	176.1	100.0	6	57
SO4-- corr	precip	0.29	0.04	1.38	165.8	100.0	6	57
cond	precip	12.51	3.40	65.60	7053.1	100.0	0	57
pH	precip	6.28	5.92	7.04	297.5	100.0	0	57

ES0016R O Savifiao

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.14	0.05	1.55	256.9	99.3	32	136
Cl-	precip	1.25	0.15	11.15	2343.9	99.7	20	145
K+	precip	0.08	0.03	1.60	151.0	99.3	54	136
Mg++	precip	0.10	0.01	0.80	185.4	99.3	1	136
NH4+	precip	0.12	0.02	3.65	233.5	99.6	10	141
NO3-	precip	0.07	0.04	1.52	133.2	99.7	86	145
Na+	precip	0.79	0.05	8.00	1495.4	99.3	12	136
Precip	precip	-	0.00	101.40	1881.1	99.9	0	365
SO4--	precip	0.15	0.05	1.60	285.6	99.7	36	145
SO4-- corr	precip	0.09	-0.14	1.50	167.9	99.7	36	145
cond	precip	8.78	2.00	96.80	16510.8	100.0	0	155
pH	precip	5.73	4.37	6.99	3486.6	100.0	0	155

ES0017R Doñana

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.36	0.05	2.41	152.1	97.3	4	46
Cl-	precip	3.15	0.36	19.28	1315.8	99.6	0	56
K+	precip	0.07	0.03	0.50	28.1	97.3	23	46
Mg++	precip	0.24	0.05	1.90	101.6	97.3	0	46
NH4+	precip	0.10	0.02	0.52	42.1	98.4	16	50
NO3-	precip	0.11	0.04	0.86	45.3	99.6	35	56
Na+	precip	2.12	0.20	12.40	888.3	97.3	0	46
Precip	precip	-	0.00	27.00	418.1	99.9	0	365
SO4--	precip	0.36	0.05	1.18	149.8	99.6	1	56
SO4-- corr	precip	0.19	-0.14	0.79	78.9	99.6	1	56
cond	precip	18.33	3.70	79.10	7666.1	100.0	0	61
pH	precip	5.51	4.77	6.71	1287.7	100.0	0	61

FI0004R Ähtäri

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.08	0.02	0.70	45.6	100.0	0	45
Cl-	precip	0.26	0.04	1.19	143.4	100.0	0	45
K+	precip	0.06	0.01	0.86	35.5	100.0	0	45
Mg++	precip	0.03	0.01	0.19	16.0	100.0	0	45
NH4+	precip	0.15	0.03	1.36	82.1	100.0	0	45
NO3-	precip	0.21	0.04	0.99	115.0	100.0	0	45
Na+	precip	0.15	0.01	0.74	86.1	100.0	0	45
Precip	precip	-	0.20	42.00	557.2	88.0	0	46
SO4--	precip	0.18	0.04	1.03	98.0	100.0	0	45
SO4-- corr	precip	0.16	0.04	1.02	90.8	100.0	0	45
cond	precip	9.20	3.02	38.80	5128.0	100.0	0	45
pH	precip	4.86	4.11	6.52	7749.9	100.0	0	45

FI0017R Virolahti II

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.03	3.83	95.7	100.0	0	44
Cl-	precip	0.56	0.05	3.54	272.7	100.0	0	44
K+	precip	0.08	0.03	2.69	39.6	100.0	0	44
Mg++	precip	0.06	0.01	0.46	29.6	100.0	0	44
NH4+	precip	0.35	0.00	2.20	169.7	100.0	0	44
NO3-	precip	0.39	0.01	2.87	188.8	100.0	0	44
Na+	precip	0.31	0.03	2.58	152.2	100.0	0	44
Precip	precip	-	0.20	52.40	487.6	86.1	0	45
SO4--	precip	0.42	0.09	2.50	203.5	100.0	0	44
SO4-- corr	precip	0.39	0.08	2.30	190.8	100.0	0	44
cond	precip	15.99	4.85	72.20	7796.2	100.0	0	44
pH	precip	4.70	4.16	6.75	9697.9	100.0	0	44

FI0022R Oulanka

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.03	0.00	0.54	16.6	100.0	0	45
Cl-	precip	0.16	0.03	3.27	84.7	100.0	0	45
K+	precip	0.02	0.00	0.54	12.5	100.0	0	45
Mg++	precip	0.02	0.01	0.24	8.4	100.0	0	45
NH4+	precip	0.06	0.01	0.50	29.9	100.0	0	45
NO3-	precip	0.11	0.02	0.41	56.2	100.0	0	45
Na+	precip	0.10	0.01	1.98	52.0	100.0	0	45
Precip	precip	-	0.40	51.00	530.7	86.1	0	45
SO4--	precip	0.13	0.04	0.65	69.9	100.0	0	45
SO4-- corr	precip	0.12	0.02	0.65	65.5	100.0	0	45
cond	precip	6.88	3.92	26.10	3651.0	100.0	0	45
pH	precip	4.89	4.24	5.69	6767.0	100.0	0	45

FI0036R Pallas (Matorova)

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.04	0.00	0.44	19.6	100.0	0	45
Cl-	precip	0.18	0.03	2.54	89.0	100.0	0	44
K+	precip	0.03	0.00	0.16	13.1	100.0	0	45
Mg++	precip	0.02	0.01	0.17	8.4	100.0	0	45
NH4+	precip	0.06	0.01	0.45	27.4	100.0	0	45
NO3-	precip	0.10	0.02	0.55	47.5	100.0	0	44
Na+	precip	0.11	0.02	1.49	54.7	100.0	0	45
Precip	precip	-	0.00	34.60	498.2	95.6	0	51
SO4--	precip	0.13	0.02	0.62	62.4	100.0	0	44
SO4-- corr	precip	0.12	0.01	0.60	57.8	100.0	0	44
cond	precip	6.70	2.38	22.60	3335.9	100.0	0	45
pH	precip	4.91	4.32	5.53	6095.8	100.0	0	45

FI0053R Hailuoto II

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.06	0.01	0.61	25.7	100.0	0	42
Cl-	precip	0.26	0.07	2.13	106.6	100.0	0	42
K+	precip	0.04	0.01	0.52	15.6	100.0	0	42
Mg++	precip	0.03	0.01	0.18	10.3	100.0	0	42
NH4+	precip	0.21	0.00	0.90	86.7	100.0	0	42
NO3-	precip	0.20	0.03	1.13	80.7	100.0	0	42
Na+	precip	0.16	0.03	1.32	63.9	100.0	0	42
Precip	precip	-	0.40	34.60	409.5	80.5	0	42
SO4--	precip	0.18	0.07	0.94	75.1	100.0	0	42
SO4-- corr	precip	0.17	0.06	0.93	69.7	100.0	0	42
cond	precip	8.34	4.43	39.00	3417.5	100.0	0	42
pH	precip	4.97	4.14	5.74	4383.9	100.0	0	42

FR0008R Donon

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.11	0.01	4.45	182.8	89.4	20	159
Cl-	precip	0.26	0.03	11.02	444.9	89.4	21	159
K+	precip	0.03	0.01	0.74	57.2	89.4	50	159
Mg++	precip	0.02	0.01	0.71	40.4	89.4	73	159
NH4+	precip	0.24	0.01	7.45	412.1	89.4	6	159
NO3-	precip	0.22	0.02	5.84	365.8	89.4	0	159
Na+	precip	0.17	0.01	6.26	283.2	89.4	10	159
Precip	precip	-	0.00	46.80	1683.3	99.9	11	365
SO4--	precip	0.17	0.03	4.15	284.7	89.4	0	159
SO4-- corr	precip	0.16	0.02	4.09	261.2	89.4	0	159
cond	precip	7.80	2.20	107.80	13136.6	89.5	0	163
pH	precip	5.40	3.92	6.99	6628.4	89.5	0	163

FR0009R Revin

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.01	8.83	275.3	94.2	1	148
Cl-	precip	0.73	0.05	14.56	763.4	94.2	0	148
K+	precip	0.08	0.01	2.16	87.7	94.2	10	148
Mg++	precip	0.07	0.01	1.26	70.9	97.5	24	149
NH4+	precip	0.47	0.01	3.16	486.6	94.2	2	148
NO3-	precip	0.35	0.05	4.46	367.5	94.2	0	148
Na+	precip	0.47	0.04	10.06	484.2	94.2	0	148
Precip	precip	-	0.00	51.00	1038.6	99.9	10	365
SO4--	precip	0.29	0.05	4.00	297.7	94.2	0	148
SO4-- corr	precip	0.25	0.05	3.16	256.8	94.2	0	148
cond	precip	12.07	3.60	115.70	12535.4	94.3	0	150
pH	precip	5.55	4.17	6.99	2959.5	94.3	0	150

FR0010R Morvan

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.01	3.38	328.9	80.4	5	140
Cl-	precip	0.53	0.03	9.82	685.7	80.4	5	140
K+	precip	0.08	0.01	1.98	102.0	80.4	18	140
Mg++	precip	0.05	0.01	0.69	61.7	80.4	44	140
NH4+	precip	0.26	0.01	3.48	333.4	80.4	9	140
NO3-	precip	0.26	0.01	2.81	340.3	80.4	1	140
Na+	precip	0.31	0.01	5.41	407.1	80.4	1	140
Precip	precip	-	0.00	39.60	1295.9	99.6	13	364
SO4--	precip	0.20	0.01	1.34	258.6	80.4	3	140
SO4-- corr	precip	0.17	0.00	1.30	224.4	80.4	3	140
cond	precip	10.11	1.60	66.90	13103.4	80.5	0	143
pH	precip	5.26	4.11	6.99	7075.8	80.5	0	143

FR0013R Peyrusse Vieille

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.32	0.03	4.25	336.3	86.6	0	143
Cl-	precip	1.78	0.03	20.95	1873.7	86.6	1	143
K+	precip	0.11	0.01	2.39	111.0	86.6	11	143
Mg++	precip	0.13	0.01	1.42	138.6	86.6	18	143
NH4+	precip	0.28	0.01	6.19	294.7	86.6	9	143
NO3-	precip	0.20	0.01	2.83	211.5	86.6	1	143
Na+	precip	1.02	0.03	11.75	1076.2	86.6	0	143
Precip	precip	-	0.00	31.40	1053.6	99.9	22	365
SO4--	precip	0.29	0.04	1.56	300.5	86.6	0	143
SO4-- corr	precip	0.20	0.02	1.39	210.5	86.6	0	143
cond	precip	14.29	3.00	90.40	15054.1	86.8	0	146
pH	precip	5.58	4.12	7.00	2746.4	86.8	0	146

FR0014R Montandon

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.01	11.45	257.4	91.0	14	163
Cl-	precip	0.20	0.03	3.40	272.6	91.0	16	163
K+	precip	0.03	0.01	0.87	45.7	91.0	53	163
Mg++	precip	0.02	0.01	0.42	32.0	91.0	72	163
NH4+	precip	0.29	0.01	2.75	403.4	91.0	4	163
NO3-	precip	0.25	0.01	3.29	340.6	91.0	3	163
Na+	precip	0.14	0.01	4.31	195.0	91.0	6	163
Precip	precip	-	0.00	67.20	1373.1	99.9	14	365
SO4--	precip	0.16	0.01	2.87	225.3	91.0	3	164
SO4-- corr	precip	0.15	0.01	2.85	208.8	91.0	3	164
cond	precip	7.56	1.90	97.50	10374.2	91.0	0	164
pH	precip	5.55	3.87	6.99	3826.3	91.0	0	164

FR0015R La Tardière

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	2.41	192.5	93.1	3	140
Cl-	precip	2.35	0.03	16.26	2601.0	93.0	1	139
K+	precip	0.08	0.01	2.29	84.8	93.7	14	141
Mg++	precip	0.16	0.01	1.11	176.5	94.4	18	141
NH4+	precip	0.31	0.01	3.03	338.2	93.1	2	140
NO3-	precip	0.17	0.01	1.72	184.5	93.1	2	140
Na+	precip	1.31	0.01	8.89	1449.7	93.0	1	139
Precip	precip	-	0.00	36.60	1104.8	99.9	28	365
SO4--	precip	0.26	0.03	1.93	283.1	93.0	0	139
SO4-- corr	precip	0.15	0.02	1.91	162.2	93.0	0	139
cond	precip	14.51	2.00	68.60	16031.2	93.3	0	145
pH	precip	5.92	4.94	6.96	1330.3	93.4	0	146

FR0016R Le Casset

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.55	0.02	10.43	538.7	80.6	0	109
Cl-	precip	0.15	0.03	2.51	152.6	80.6	16	109
K+	precip	0.06	0.01	1.02	62.2	80.6	18	109
Mg++	precip	0.05	0.01	0.67	46.3	80.6	42	109
NH4+	precip	0.17	0.01	2.89	170.0	80.6	27	109
NO3-	precip	0.17	0.01	1.61	163.8	80.6	1	109
Na+	precip	0.11	0.01	1.84	104.6	80.6	8	109
Precip	precip	-	0.00	44.40	984.2	99.9	9	365
SO4--	precip	0.17	0.01	2.85	168.8	80.6	6	109
SO4-- corr	precip	0.16	0.01	2.73	160.3	80.6	6	109
cond	precip	7.87	2.20	73.80	7750.2	80.7	0	113
pH	precip	5.96	4.62	6.99	1086.5	80.7	0	113

FR0017R Montfranc

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.01	8.84	300.2	86.0	10	157
Cl-	precip	0.70	0.03	7.78	926.1	86.0	4	157
K+	precip	0.04	0.01	1.43	49.8	88.0	39	158
Mg++	precip	0.06	0.01	0.54	80.1	86.0	46	157
NH4+	precip	0.22	0.01	4.86	294.8	86.0	5	157
NO3-	precip	0.18	0.01	2.07	231.3	86.0	2	157
Na+	precip	0.42	0.01	4.42	546.3	86.0	2	157
Precip	precip	-	0.00	41.20	1315.1	99.9	16	365
SO4--	precip	0.18	0.02	1.73	238.9	86.0	0	157
SO4-- corr	precip	0.15	0.01	1.70	193.0	86.0	0	157
cond	precip	8.78	2.40	68.70	11544.8	86.1	0	158
pH	precip	5.61	4.11	6.94	3254.2	86.1	0	158

FR0018R La Coulonche

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.01	3.06	169.6	75.7	2	132
Cl-	precip	2.00	0.06	26.44	1854.8	75.7	0	132
K+	precip	0.07	0.01	1.38	68.5	75.7	14	132
Mg++	precip	0.14	0.01	1.92	130.8	75.7	15	132
NH4+	precip	0.43	0.06	3.99	402.1	75.7	0	132
NO3-	precip	0.27	0.03	2.34	251.8	75.7	0	132
Na+	precip	1.13	0.01	15.89	1046.8	75.7	1	132
Precip	precip	-	0.00	38.00	927.5	99.9	8	365
SO4--	precip	0.29	0.03	3.29	271.9	75.7	0	132
SO4-- corr	precip	0.20	-0.72	2.38	183.8	75.7	0	132
cond	precip	15.54	2.60	123.00	14416.1	76.5	0	137
pH	precip	5.69	4.33	7.06	1891.8	76.5	0	137

GB0002R Eskdalemuir

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.10	0.50	210.1	100.0	0	22
Cl-	precip	3.87	0.30	8.30	4709.8	100.0	0	22
K+	precip	0.11	0.00	0.30	136.7	100.0	0	22
Mg++	precip	0.25	0.00	0.60	309.2	100.0	0	22
NH4+	precip	0.26	0.10	2.00	313.1	100.0	0	22
NO3-	precip	0.16	0.00	1.60	194.8	100.0	0	22
Na+	precip	2.18	0.20	4.80	2646.6	100.0	0	22
Precip	precip	-	0.00	187.20	1215.5	96.2	0	26
SO4--	precip	0.31	0.10	1.30	373.8	100.0	0	22
SO4-- corr	precip	0.12	0.00	0.90	140.0	100.0	0	22
cond	precip	19.89	7.40	59.90	24180.3	100.0	0	22
pH	precip	5.17	4.70	6.00	8184.0	100.0	0	22

GB0006R Lough Navar

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.33	0.10	1.20	440.9	100.0	0	25
Cl-	precip	7.20	0.60	19.20	9689.6	100.0	0	25
K+	precip	0.20	0.00	0.40	272.5	100.0	0	25
Mg++	precip	0.50	0.10	1.30	669.4	100.0	0	25
NH4+	precip	0.28	0.00	2.30	372.4	100.0	0	25
NO3-	precip	0.13	0.00	1.40	180.9	100.0	0	25
Na+	precip	4.01	0.30	10.50	5393.6	100.0	0	25
Precip	precip	-	0.00	123.70	1346.5	100.0	0	26
SO4--	precip	0.46	0.10	1.00	618.7	100.0	0	25
SO4-- corr	precip	0.12	0.00	0.80	159.7	100.0	0	25
cond	precip	32.45	7.10	75.10	43694.5	100.0	0	25
pH	precip	5.40	4.70	7.20	5310.2	100.0	0	25

GB0013R Yarner Wood

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.10	0.70	299.9	100.0	0	24
Cl-	precip	3.69	1.40	13.50	5822.3	100.0	0	24
K+	precip	0.13	0.10	0.40	204.1	100.0	0	24
Mg++	precip	0.25	0.10	0.90	393.3	100.0	0	24
NH4+	precip	0.33	0.10	1.10	514.8	100.0	0	23
NO3-	precip	0.28	0.10	1.10	432.4	100.0	0	23
Na+	precip	2.07	0.90	7.30	3266.9	100.0	0	24
Precip	precip	-	0.00	454.40	1576.1	100.0	0	27
SO4--	precip	0.38	0.20	1.00	605.2	100.0	0	24
SO4-- corr	precip	0.20	0.00	0.60	312.1	100.0	0	24
cond	precip	21.11	12.60	57.00	33274.5	100.0	0	24
pH	precip	5.07	4.40	6.10	13510.8	100.0	0	24

GB0014R High Muffles

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.38	0.00	4.80	239.4	100.0	0	24
Cl-	precip	5.24	0.20	62.90	3296.2	100.0	0	24
K+	precip	0.15	0.00	2.40	96.7	100.0	0	24
Mg++	precip	0.33	0.00	4.10	210.4	100.0	0	24
NH4+	precip	0.60	0.20	2.10	372.1	100.0	0	23
NO3-	precip	0.45	0.10	1.70	276.4	100.0	0	23
Na+	precip	2.75	0.10	35.10	1731.8	100.0	0	24
Precip	precip	-	0.00	86.40	629.3	100.0	0	26
SO4--	precip	0.64	0.20	4.20	400.4	100.0	0	24
SO4-- corr	precip	0.41	0.20	1.30	258.8	100.0	0	24
cond	precip	31.01	7.20	263.00	19513.5	100.0	0	24
pH	precip	4.92	4.40	6.60	7538.4	100.0	0	24

GB0015R Strath Vaich Dam

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.10	0.90	273.0	100.0	0	21
Cl-	precip	8.18	0.20	27.90	10124.5	100.0	0	21
K+	precip	0.17	0.00	0.50	213.1	100.0	0	21
Mg++	precip	0.54	0.00	1.80	668.2	100.0	0	21
NH4+	precip	0.08	0.00	0.50	96.6	100.0	0	21
NO3-	precip	0.04	0.00	0.40	53.5	100.0	0	21
Na+	precip	4.57	0.10	15.30	5659.5	100.0	0	21
Precip	precip	-	0.00	164.40	1237.4	100.0	0	23
SO4--	precip	0.44	0.10	1.30	547.9	100.0	0	21
SO4-- corr	precip	0.06	-0.10	0.30	70.6	100.0	0	21
cond	precip	34.60	7.70	107.00	42813.7	100.0	0	21
pH	precip	5.13	4.70	6.40	9187.5	100.0	0	21

GB0036R Harwell

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.00	6.28	123.3	99.9	0	145
Cl-	precip	1.41	0.04	19.70	792.3	99.9	0	145
K+	precip	0.09	0.01	2.10	47.9	99.9	1	145
Mg++	precip	0.10	0.01	1.48	56.1	99.9	0	145
NH4+	precip	0.41	0.03	4.82	231.5	99.9	0	145
NO3-	precip	0.30	0.02	3.37	168.6	99.9	0	145
Na+	precip	0.83	0.04	14.20	465.7	99.9	0	145
Precip	precip	-	0.00	22.84	563.4	99.2	0	362
SO4--	precip	0.28	0.05	4.46	156.6	99.9	0	145
SO4-- corr	precip	0.21	0.03	3.61	117.9	99.9	0	145
cond	precip	12.67	3.61	69.80	7140.4	98.5	0	118
pH	precip	5.24	4.06	6.76	3268.7	99.9	0	145

GB0048R Auchencorth Moss

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	-0.01	17.40	90.1	99.2	4	176
Cl-	precip	2.43	0.05	339.00	1644.5	99.2	0	176
K+	precip	0.07	0.00	7.16	49.1	99.2	11	176
Mg++	precip	0.16	0.00	22.50	111.2	99.2	5	176
NH4+	precip	0.30	0.04	6.36	204.7	99.2	0	176
NO3-	precip	0.17	0.02	5.39	116.9	99.2	0	176
Na+	precip	1.37	0.03	190.00	931.0	99.2	0	176
Precip	precip	-	0.00	23.30	678.0	96.2	0	351
SO4--	precip	0.26	0.03	15.50	175.5	99.2	0	176
SO4-- corr	precip	0.14	-0.40	2.63	97.6	99.2	0	176
cond	precip	13.34	2.22	166.00	9041.6	97.6	0	141
pH	precip	5.30	4.22	6.54	3401.3	99.2	0	174

HU0002R K-puszta

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.67	0.10	10.09	288.2	99.2	0	101
Cl-	precip	1.06	0.50	6.20	457.7	99.8	0	109
K+	precip	0.13	0.03	1.23	55.7	99.2	5	101
Mg++	precip	0.11	0.03	0.88	46.3	99.2	4	101
NH4+	precip	0.37	0.02	2.20	160.5	98.4	16	100
NO3-	precip	0.33	0.01	2.39	143.6	99.8	2	109
Na+	precip	1.27	0.80	6.32	546.0	99.2	0	101
Precip off	precip	-	0.00	31.60	430.4	99.9	0	366
SO4--	precip	0.63	0.20	2.96	273.0	99.8	0	109
SO4-- corr	precip	0.56	0.11	2.73	242.5	99.8	0	109
cond	precip	17.99	9.00	99.30	7743.7	99.4	0	102
pH	precip	5.66	4.55	7.27	947.8	99.4	0	102

IE0001R Valentia Observatory

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.33	0.03	6.95	538.6	96.3	37	207
Cl-	precip	16.02	0.15	260.02	26292.3	96.4	0	208
K+	precip	0.35	0.03	7.02	575.3	96.4	54	208
Mg++	precip	1.11	0.03	20.65	1816.9	96.4	14	208
NH4+	precip	0.09	0.02	1.12	155.4	96.4	81	208
NO3-	precip	0.07	0.01	0.81	116.8	96.4	13	208
Na+	precip	8.51	0.09	172.16	13959.9	96.4	0	208
Precip off	precip	-	0.00	38.10	1640.6	100.0	0	366
SO4--	precip	0.82	0.05	14.65	1342.5	96.4	0	209
SO4-- corr	precip	0.11	-0.01	0.77	174.6	96.4	0	209
cond	precip	63.94	3.10	1116.00	104937.8	96.4	0	208
pH	precip	5.32	4.35	6.84	7817.4	96.4	0	208

IE0009R Johnstown Castle

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.03	5.65	146.8	70.9	8	95
Cl-	precip	7.03	0.13	46.26	4111.7	66.5	0	90
K+	precip	0.15	0.03	1.01	88.6	75.7	11	96
Mg++	precip	0.48	0.03	3.18	283.2	66.5	5	90
NH4+	precip	0.40	0.02	4.53	231.6	66.2	2	92
NO3-	precip	0.27	0.03	4.08	160.2	66.2	0	88
Na+	precip	3.83	0.05	25.14	2242.0	66.5	0	90
Precip	precip	-	0.00	26.00	585.2	84.1	0	307
SO4--	precip	0.51	0.01	2.63	298.4	66.5	1	90
SO4-- corr	precip	0.19	-0.30	2.04	110.9	66.5	1	90
cond	precip	34.45	3.20	176.90	20158.2	66.5	0	90
pH	precip	5.32	4.29	7.27	2807.2	66.5	0	90

IS0091R Storhofdi

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.40	0.37	25.56	3996.6	100.0	0	12
Cl-	precip	92.83	16.70	699.89	154451.0	100.0	0	12
K+	precip	2.31	0.30	21.72	3842.5	100.0	0	12
Mg++	precip	5.85	0.98	37.61	9730.2	100.0	0	12
NH4+	precip	0.61	0.13	1.43	1009.4	100.0	0	12
NO3-	precip	0.11	0.01	0.23	181.0	100.0	0	12
Na+	precip	48.09	9.11	303.76	80014.0	100.0	0	12
Precip	precip	-	25.80	239.40	1663.8	100.0	0	12
Precip off	precip	-	76.10	290.10	1760.9	100.0	0	12
SO4--	precip	4.42	0.66	39.68	7346.9	100.0	0	12
SO4-- corr	precip	0.39	-1.16	14.26	649.6	100.0	0	12
cond	precip	308.01	63.50	2000.00	512465.5	100.0	0	12
pH	precip	5.62	5.22	6.11	3955.6	100.0	0	12

IT0001R Montelibretti

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.58	0.16	13.99	1524.9	100.0	0	66
Cl-	precip	2.50	0.18	27.09	2416.3	100.0	0	66
K+	precip	0.35	0.02	2.88	336.7	100.0	0	66
Mg++	precip	0.46	0.06	2.64	446.3	100.0	0	66
NH4+	precip	0.35	0.01	7.74	339.7	100.0	0	66
NO3-	precip	0.57	0.04	6.13	552.0	100.0	0	66
Na+	precip	1.46	0.08	14.73	1410.1	100.0	0	66
Precip	precip	-	0.00	50.90	965.0	100.0	0	365
SO4--	precip	0.58	0.04	6.19	563.9	100.0	0	66
SO4-- corr	precip	0.46	-0.13	5.75	439.6	100.0	0	66
cond	precip	27.60	4.14	158.00	26634.5	100.0	0	66
pH	precip	5.87	4.60	7.10	1302.2	100.0	0	66

IT0004R Ispra

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.35	0.04	6.68	536.1	92.2	0	113
Cl-	precip	0.27	0.02	8.50	409.1	94.9	0	114
K+	precip	0.04	0.00	0.59	56.3	92.2	0	113
Mg++	precip	0.05	0.01	0.67	72.8	92.2	0	113
NH4+	precip	0.78	0.03	6.39	1173.9	92.2	0	113
NO3-	precip	0.49	0.02	9.66	737.0	94.9	0	114
Na+	precip	0.26	0.01	6.11	391.8	92.2	0	113
Precip	precip	-	0.00	161.90	1514.0	99.9	0	365
SO4--	precip	0.31	0.01	3.19	463.9	94.9	0	114
SO4-- corr	precip	0.29	0.01	3.09	434.3	94.9	0	114
cond	precip	12.07	1.78	73.10	18278.5	93.5	0	86
pH	precip	5.20	3.98	6.94	9476.1	93.6	0	87

LT0015R Preila

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.59	0.05	3.88	284.5	98.8	0	78
Cl-	precip	2.82	0.20	55.96	1359.8	98.8	0	78
K+	precip	0.11	0.02	1.24	54.9	98.8	0	78
Mg++	precip	0.19	0.04	0.89	91.1	98.8	0	78
NH4+	precip	0.40	0.03	4.38	193.9	98.8	0	78
NO3-	precip	0.41	0.05	2.36	198.5	98.8	0	78
Na+	precip	1.60	0.12	29.62	771.1	98.8	0	78
Precip	precip	-	0.00	33.40	481.6	99.7	0	365
SO4--	precip	0.48	0.08	3.12	229.4	98.8	0	78
SO4-- corr	precip	0.34	-0.06	2.37	165.0	98.8	0	78
cond	precip	22.95	4.30	230.00	11054.5	98.6	0	76
pH	precip	5.01	4.13	6.90	4757.9	98.6	0	76

LV0010R Rucava

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.02	3.33	203.3	92.4	26	82
Cl-	precip	1.07	0.03	9.50	800.1	89.7	1	70
K+	precip	0.16	0.01	1.68	122.5	92.4	10	82
Mg++	precip	0.11	0.01	0.78	77.5	92.2	45	81
NH4+	precip	0.37	0.01	5.23	276.2	97.8	9	119
NO3-	precip	0.34	0.03	2.18	257.8	89.7	0	70
Na+	precip	0.56	0.04	6.00	420.0	92.4	29	82
Precip	precip	-	0.00	36.20	742.9	100.0	0	330
SO4--	precip	0.40	0.07	1.85	296.3	89.7	0	70
SO4-- corr	precip	0.35	0.05	1.82	261.0	89.7	0	70
cond	precip	14.86	4.20	95.80	11110.4	95.7	0	117
pH	precip	5.09	4.15	7.89	6033.1	97.8	0	119

MD0013R Leova II

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.01	1.08	114.3	75.8	0	56
Cl-	precip	1.20	0.01	4.77	632.9	98.9	0	71
K+	precip	0.19	0.02	1.33	101.0	75.8	0	56
Mg++	precip	0.10	0.00	0.48	54.7	75.8	0	56
NH4+	precip	0.35	0.01	1.67	185.5	75.8	0	56
NO3-	precip	0.39	0.09	2.43	207.8	98.9	0	71
Na+	precip	0.08	0.00	0.50	40.6	75.8	0	56
Precip	precip	-	0.00	44.50	526.3	99.9	0	366
SO4--	precip	0.92	0.24	3.18	482.7	98.9	0	71
SO4-- corr	precip	0.89	0.21	3.17	468.0	98.9	0	71
cond	precip	16.21	4.90	64.60	8531.5	98.9	0	71
pH	precip	5.25	4.15	7.16	2956.7	98.9	0	71

ME0008R Zabljak

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.85	0.26	13.63	3344.3	83.6	0	73
Cl-	precip	1.90	0.00	155.64	3431.4	97.6	0	119
K+	precip	0.43	0.00	19.31	781.0	100.0	0	140
Mg++	precip	0.45	0.00	5.23	811.6	76.3	0	61
NH4+	precip	0.92	0.00	8.75	1655.8	100.0	0	140
NO3-	precip	0.92	0.00	52.90	1665.2	98.7	0	134
Na+	precip	0.93	0.00	41.00	1678.4	100.0	0	140
Precip	precip	-	1.00	69.00	1805.4	38.4	0	140
SO4--	precip	2.80	0.00	70.90	5061.9	100.0	0	140
SO4-- corr	precip	2.73	-0.08	69.90	4929.1	100.0	0	140
pH	precip	6.41	5.57	8.36	704.3	100.0	0	140

NL0091R De Zilk

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.02	1.23	142.5	94.3	1	95
Cl-	precip	4.94	0.16	67.68	3284.0	97.5	0	117
H+	precip	5.28	0.00	6.52	3510.8	98.0	1	125
K+	precip	0.25	0.02	1.86	165.5	95.2	2	96
Mg++	precip	0.34	0.01	4.38	224.0	95.2	6	96
NH4+	precip	0.50	0.00	2.83	329.5	95.2	1	101
NO3-	precip	0.36	0.07	1.71	239.8	96.6	0	116
Na+	precip	2.46	0.05	28.26	1634.0	94.3	0	95
Precip	precip	-	0.00	22.22	664.7	99.7	215	364
SO4--	precip	0.49	0.06	2.49	325.5	96.6	0	116
SO4-- corr	precip	0.28	0.06	1.57	187.3	96.6	0	116
cond	precip	31.45	4.00	268.00	20901.8	93.7	0	89

NO0001R Birkenes

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	1.28	239.1	99.4	0	153
Cl-	precip	2.30	0.04	34.07	3280.5	99.4	0	153
K+	precip	0.10	0.01	0.78	140.1	98.3	2	151
Mg++	precip	0.16	0.01	2.32	228.7	99.4	3	153
NH4+	precip	0.37	0.01	2.03	522.6	98.3	3	151
NO3-	precip	0.35	0.02	2.11	500.9	99.4	0	153
Na+	precip	1.34	0.03	20.09	1914.6	99.4	0	153
Precip	precip	-	0.00	47.30	1428.9	99.7	0	365
SO4--	precip	0.32	0.04	2.52	463.7	99.4	0	153
SO4-- corr	precip	0.21	0.01	2.45	303.1	99.4	0	152
cond	precip	18.28	3.00	174.00	26117.6	99.0	0	141
pH	precip	4.97	3.74	6.37	15421.6	97.4	0	137

NO0015R Tustervatn

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.01	0.93	99.7	99.0	2	128
Cl-	precip	1.56	0.01	13.98	1802.9	99.0	2	128
K+	precip	0.06	0.01	0.31	63.9	97.4	10	122
Mg++	precip	0.10	0.01	0.99	117.7	99.0	18	128
NH4+	precip	0.14	0.01	1.57	164.1	97.1	15	121
NO3-	precip	0.05	0.01	0.56	59.8	99.0	9	128
Na+	precip	0.86	0.01	7.93	985.9	99.0	1	128
Precip	precip	-	0.00	84.40	1152.3	93.7	0	240
SO4--	precip	0.11	0.02	0.68	132.1	99.0	0	128
SO4-- corr	precip	0.04	-0.08	0.34	49.2	99.0	0	128
cond	precip	9.08	2.00	49.00	10465.1	98.8	0	120
pH	precip	5.39	4.92	6.19	4713.6	96.9	0	113

NO0039R K rvatn

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.14	0.01	1.10	203.8	97.5	0	135
Cl-	precip	3.54	0.04	49.20	5075.4	97.5	0	133
K+	precip	0.15	0.01	2.58	218.4	97.5	3	135
Mg++	precip	0.22	0.01	3.16	321.0	97.5	14	135
NH4+	precip	0.13	0.01	1.59	181.9	95.9	3	133
NO3-	precip	0.06	0.01	0.56	80.1	97.5	2	133
Na+	precip	1.96	0.02	27.71	2807.5	97.5	0	135
Precip	precip	-	0.00	85.40	1431.7	99.5	0	311
SO4--	precip	0.20	0.01	2.01	291.3	97.5	0	133
SO4-- corr	precip	0.04	-0.78	0.88	56.6	97.5	0	133
cond	precip	16.12	2.00	175.00	23077.3	97.5	0	131
pH	precip	5.45	4.87	6.67	5059.5	96.0	0	129

NO0056R Hurdal

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.02	1.35	134.4	98.5	0	127
Cl-	precip	0.70	0.03	28.27	629.0	98.4	0	126
K+	precip	0.10	0.01	1.62	90.9	97.9	2	123
Mg++	precip	0.05	0.01	1.74	46.9	98.4	11	126
NH4+	precip	0.38	0.01	4.90	339.9	95.2	2	120
NO3-	precip	0.26	0.01	1.69	233.3	98.4	3	126
Na+	precip	0.43	0.02	18.02	385.8	98.4	0	126
Precip	precip	-	0.00	40.90	896.4	99.4	0	363
SO4--	precip	0.21	0.02	1.56	188.3	98.4	0	126
SO4-- corr	precip	0.17	-0.28	1.47	156.1	98.4	0	126
cond	precip	10.54	2.00	112.00	9450.1	98.1	0	115
pH	precip	5.18	4.10	6.66	5912.2	94.9	0	109

PL0002R Jarczew

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.00	3.30	122.0	99.8	0	114
Cl-	precip	0.33	0.10	9.70	178.6	99.8	0	114
K+	precip	0.09	0.01	2.73	50.3	99.8	0	114
Mg++	precip	0.04	0.00	0.52	19.9	99.8	0	114
NH4+	precip	0.44	0.06	4.98	241.9	99.8	0	114
NO3-	precip	0.38	0.10	2.79	204.7	99.8	0	114
Na+	precip	0.14	0.02	4.34	75.3	99.8	0	114
Precip	precip	-	0.00	48.50	545.9	96.2	0	352
SO4--	precip	0.45	0.08	3.32	246.3	99.8	0	114
SO4-- corr	precip	0.44	0.08	3.26	239.4	99.8	0	114
cond	precip	14.44	4.00	119.10	7884.5	99.8	0	114
pH	precip	4.82	3.77	6.97	8274.0	99.8	0	114

PL0003R Sniezka

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.10	0.70	345.7	99.6	0	203
Cl-	precip	0.57	0.30	1.10	686.4	99.6	0	203
K+	precip	0.21	0.04	0.47	248.8	99.6	0	203
Mg++	precip	0.13	0.06	0.26	157.5	99.6	0	203
NH4+	precip	0.44	0.23	0.79	535.9	99.6	0	203
NO3-	precip	0.63	0.25	1.42	758.7	99.6	0	203
Na+	precip	0.40	0.13	0.95	483.7	99.6	0	203
Precip	precip	-	0.00	40.30	1212.2	93.2	0	341
SO4--	precip	0.81	0.38	2.03	977.3	99.6	0	203
SO4-- corr	precip	0.77	0.36	1.95	936.8	99.6	0	203
cond	precip	24.79	13.70	56.60	30054.1	99.6	0	203
pH	precip	4.49	4.09	4.75	39416.0	99.6	0	203

PL0004R Leba

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.00	2.60	150.1	99.8	0	141
Cl-	precip	2.49	0.10	83.70	1655.0	99.8	0	141
K+	precip	0.13	0.02	2.32	87.7	99.8	0	141
Mg++	precip	0.18	0.01	5.78	118.2	99.8	0	141
NH4+	precip	0.35	0.01	2.74	235.2	99.8	0	140
NO3-	precip	0.38	0.08	3.52	254.5	99.8	0	141
Na+	precip	1.44	0.04	49.67	958.8	99.8	0	141
Precip	precip	-	0.00	35.40	665.5	55.7	0	204
SO4--	precip	0.39	0.06	5.41	260.7	99.8	0	141
SO4-- corr	precip	0.27	-0.11	5.25	179.9	99.8	0	141
cond	precip	21.16	4.50	343.00	14080.1	99.8	0	141
pH	precip	4.85	3.47	6.61	9496.3	99.8	0	141

PL0005R Diabla Gora

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.00	1.30	103.9	93.5	0	99
Cl-	precip	0.33	0.05	9.10	228.5	100.0	4	124
K+	precip	0.04	0.01	0.29	25.9	96.9	0	99
Mg++	precip	0.04	0.01	0.51	24.2	96.9	0	99
NH4+	precip	0.43	0.01	5.08	295.6	100.0	13	124
NO3-	precip	0.35	0.04	2.49	239.5	100.0	2	124
Na+	precip	0.11	0.01	4.49	76.5	96.9	0	99
Precip	precip	-	0.00	33.50	690.6	100.0	0	366
Precip off	precip	-	0.00	34.70	787.1	100.0	0	366
SO4--	precip	0.34	0.04	2.16	232.3	100.0	0	124
SO4-- corr	precip	0.32	0.03	2.12	223.9	100.0	0	124
cond	precip	11.31	3.00	54.00	7813.4	96.4	0	97
pH	precip	4.92	4.13	6.68	8390.3	100.0	0	124

RS0005R Kamenicki vis

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.20	0.12	19.21	796.6	95.8	0	93
Cl-	precip	0.52	0.09	8.73	341.1	96.8	0	100
K+	precip	0.42	0.04	9.50	275.3	95.8	0	93
Mg++	precip	0.13	0.00	1.91	86.7	95.8	1	93
NH4+	precip	0.53	0.00	5.30	350.8	95.8	7	93
NO3-	precip	0.43	0.07	2.88	286.8	96.8	0	100
Na+	precip	0.40	0.05	3.54	263.4	95.8	0	93
Precip off	precip	-	0.00	39.50	661.6	100.0	0	365
SO4--	precip	1.09	0.22	9.86	718.7	96.8	0	100
SO4-- corr	precip	1.05	0.20	9.76	695.9	96.8	0	100
cond	precip	26.99	7.40	157.90	17859.1	95.6	0	90
pH	precip	5.09	4.37	7.10	5380.9	95.6	0	90

RU0001R Janiskoski

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.30	0.09	2.85	121.0	100.0	0	160
Cl-	precip	1.43	0.14	69.10	569.3	100.0	0	160
K+	precip	0.28	0.02	5.89	112.2	100.0	0	160
Mg++	precip	0.07	0.01	2.76	29.5	100.0	0	160
NH4+	precip	0.15	0.01	3.82	60.5	100.0	0	160
NO3-	precip	0.08	0.01	1.02	33.1	100.0	0	160
Na+	precip	0.63	0.04	20.05	251.4	100.0	0	160
Precip	precip	-	0.00	14.50	398.6	99.9	0	365
SO4--	precip	0.30	0.03	3.52	117.9	100.0	0	160
SO4-- corr	precip	0.24	-0.04	2.64	96.2	100.0	0	160
cond	precip	10.27	3.10	67.60	4093.2	93.4	0	115
pH	precip	5.07	4.20	6.55	3380.7	97.1	0	137

RU0013R Pinega

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.56	0.18	11.80	278.0	100.0	0	176
Cl-	precip	0.84	0.05	22.25	418.1	100.0	0	175
K+	precip	0.45	0.07	10.64	222.6	100.0	0	176
Mg++	precip	0.13	0.02	1.42	65.3	100.0	0	176
NH4+	precip	0.31	0.02	6.52	156.3	100.0	0	176
NO3-	precip	0.17	0.01	1.44	83.1	100.0	0	176
Na+	precip	0.49	0.09	9.11	244.1	100.0	0	176
Precip	precip	-	0.00	27.10	498.2	100.0	0	366
SO4--	precip	0.32	0.07	6.63	158.9	100.0	0	175
SO4-- corr	precip	0.28	0.05	6.46	138.5	100.0	0	175
cond	precip	11.78	4.30	60.00	5867.3	94.7	0	123
pH	precip	5.71	4.30	6.64	980.9	96.2	0	135

RU0018R Danki

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.53	0.01	6.30	485.0	100.0	0	159
Cl-	precip	0.32	0.06	6.10	292.4	100.0	0	158
K+	precip	0.20	0.02	3.08	178.7	100.0	0	159
Mg++	precip	0.07	0.01	0.54	64.1	100.0	0	159
NH4+	precip	0.27	0.01	3.08	248.1	100.0	0	159
NO3-	precip	0.26	0.01	1.97	233.4	100.0	0	158
Na+	precip	0.16	0.02	2.56	143.0	100.0	0	159
Precip	precip	-	0.00	41.70	912.5	100.0	0	366
SO4--	precip	0.38	0.05	3.03	346.2	100.0	0	158
SO4-- corr	precip	0.37	0.04	2.90	333.6	100.0	0	158
cond	precip	10.50	3.20	98.30	9574.3	99.3	0	139
pH	precip	5.10	4.42	6.86	7215.1	99.6	0	146

RU0020R Lesnoy

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.37	0.04	3.54	274.3	100.0	0	181
Cl-	precip	0.26	0.02	6.80	192.1	100.0	0	181
K+	precip	0.15	0.01	2.89	110.7	100.0	0	181
Mg++	precip	0.04	0.01	0.68	29.8	100.0	0	181
NH4+	precip	0.29	0.02	3.20	214.8	100.0	0	181
NO3-	precip	0.26	0.01	2.17	192.5	100.0	0	181
Na+	precip	0.16	0.01	2.97	115.3	100.0	0	181
Precip	precip	-	0.00	26.40	733.6	99.9	0	365
SO4--	precip	0.32	0.04	2.88	231.6	100.0	0	181
SO4-- corr	precip	0.30	0.03	2.84	221.5	100.0	0	181
cond	precip	9.09	2.90	66.90	6669.7	95.7	0	129
pH	precip	5.08	4.38	7.25	6088.3	97.9	0	145

SE0005R Bredkålen

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.01	0.91	47.0	99.1	0	121
Cl-	precip	0.16	0.01	4.65	87.5	99.1	0	121
K+	precip	0.04	0.01	0.46	22.6	99.1	0	121
Mg++	precip	0.02	0.00	0.28	8.9	99.1	0	121
NH4+	precip	0.07	0.00	0.57	36.3	99.1	0	120
NO3-	precip	0.08	0.00	0.50	43.8	99.1	0	121
Na+	precip	0.09	0.01	2.64	50.1	99.1	0	121
Precip	precip	-	0.00	21.00	530.8	99.9	0	365
SO4--	precip	0.10	0.00	0.87	50.5	99.1	0	121
SO4-- corr	precip	0.09	0.00	0.86	46.8	99.1	0	121
cond	precip	5.58	2.00	21.00	2960.7	87.5	0	69
pH	precip	5.06	4.46	7.63	4584.3	99.7	0	138

SE0011R Vavihill

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.05	0.46	176.3	100.0	0	12
Cl-	precip	4.63	0.40	16.34	4100.6	100.0	0	12
K+	precip	0.18	0.05	0.42	161.5	100.0	0	12
Mg++	precip	0.32	0.03	1.12	284.8	100.0	0	12
NH4+	precip	0.41	0.26	1.77	361.0	100.0	0	12
NO3-	precip	0.39	0.21	0.96	346.6	100.0	0	12
Na+	precip	2.60	0.22	9.14	2303.5	100.0	0	12
Precip	precip	-	10.60	211.00	885.2	98.6	0	12
SO4--	precip	0.45	0.22	0.92	401.5	100.0	0	12
SO4-- corr	precip	0.23	0.15	0.46	207.6	100.0	0	12
cond	precip	29.03	10.00	73.00	25694.9	100.0	0	12
pH	precip	4.91	4.46	6.34	10926.3	100.0	0	12

SE0012R Aspvreten

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.04	0.21	47.5	100.0	0	7
Cl-	precip	0.47	0.14	0.94	244.9	100.0	0	7
K+	precip	0.05	0.04	0.07	25.6	100.0	0	7
Mg++	precip	0.04	0.02	0.07	19.5	100.0	0	7
NH4+	precip	0.17	0.10	0.32	88.0	100.0	0	7
NO3-	precip	0.25	0.17	0.46	130.9	100.0	0	7
Na+	precip	0.28	0.06	0.60	147.6	100.0	0	7
Precip	precip	-	17.00	197.00	518.0	50.3	0	7
SO4--	precip	0.17	0.12	0.40	86.5	100.0	0	7
SO4-- corr	precip	0.14	0.10	0.35	73.1	100.0	0	7
cond	precip	11.34	8.00	22.00	5876.2	100.0	0	7
pH	precip	4.78	4.61	5.08	8588.8	100.0	0	7

SE0014R Råö

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.28	0.02	6.14	168.4	99.9	1	130
Cl-	precip	8.12	0.09	273.96	4851.3	99.9	0	130
K+	precip	0.20	0.01	6.00	122.4	99.9	1	130
Mg++	precip	0.57	0.01	18.74	341.0	99.9	0	130
NH4+	precip	0.44	0.02	3.41	262.3	99.9	0	130
NO3-	precip	0.40	0.04	4.28	241.7	99.9	0	130
Na+	precip	4.58	0.06	150.40	2739.0	99.9	0	130
Precip	precip	-	0.00	26.50	597.4	100.0	0	366
SO4--	precip	0.61	0.07	13.05	362.7	99.9	0	130
SO4-- corr	precip	0.22	-0.16	1.63	133.2	99.9	0	130
cond	precip	41.19	6.00	998.00	24609.9	93.2	0	85
pH	precip	4.94	3.94	6.79	6802.8	100.0	0	134

SI0008R Iskrba

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.01	9.70	304.3	99.7	28	146
Cl-	precip	0.42	0.01	4.93	629.6	99.7	1	146
K+	precip	0.04	0.01	0.67	61.2	99.7	78	146
Mg++	precip	0.05	0.01	0.68	80.4	99.7	75	146
NH4+	precip	0.20	0.02	2.46	292.4	99.7	9	146
NO3-	precip	0.22	0.04	3.87	322.9	99.7	0	146
Na+	precip	0.26	0.01	5.46	381.1	99.7	33	146
Precip	precip	-	0.00	44.50	1489.8	100.0	0	366
SO4--	precip	0.27	0.07	6.33	398.4	99.7	0	146
SO4-- corr	precip	0.25	0.07	6.31	366.1	99.7	0	146
cond	precip	9.48	2.00	52.00	14118.0	96.6	0	105
pH	precip	4.97	3.98	7.04	15852.7	96.6	0	105

SK0002R Chopok

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.00	4.56	253.1	91.9	0	142
Cl-	precip	0.19	0.01	2.51	249.0	91.9	0	142
K+	precip	0.06	0.00	1.03	77.9	91.9	0	142
Mg++	precip	0.03	0.00	1.64	44.5	91.9	8	142
NH4+	precip	0.29	0.00	1.40	385.4	85.0	0	135
NO3-	precip	0.22	0.03	1.14	286.4	91.9	0	142
Na+	precip	0.14	0.01	3.68	181.0	91.9	0	142
Precip	precip	-	0.10	45.00	1328.9	56.3	0	206
SO4--	precip	0.38	0.05	3.48	500.6	91.9	0	142
SO4-- corr	precip	0.37	0.04	3.42	487.8	91.9	0	142
cond	precip	10.35	2.97	39.90	13750.2	77.3	0	90
pH	precip	4.99	4.19	5.99	13528.9	77.3	0	90

SK0004R Stará Lesná

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.39	0.01	3.50	264.2	90.8	0	81
Cl-	precip	0.12	0.02	0.67	84.6	90.8	0	81
K+	precip	0.05	0.00	1.73	36.0	90.8	1	81
Mg++	precip	0.03	0.00	0.20	23.2	90.8	4	81
NH4+	precip	0.36	0.00	3.19	250.0	58.5	0	52
NO3-	precip	0.27	0.00	0.94	188.3	90.8	2	81
Na+	precip	0.12	0.04	0.82	83.7	90.8	0	81
Precip	precip	-	0.10	31.60	686.2	44.7	0	163
SO4--	precip	0.44	0.06	1.74	304.1	91.2	0	82
SO4-- corr	precip	0.43	0.05	1.69	298.3	90.8	0	81
cond	precip	14.23	6.00	36.30	9765.2	79.2	0	49
pH	precip	4.84	4.33	6.20	10009.7	79.2	0	49

SK0006R Starina

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.40	0.02	3.38	279.0	78.8	0	74
Cl-	precip	0.24	0.03	3.97	163.1	78.8	0	74
K+	precip	0.12	0.00	0.55	81.7	78.8	0	74
Mg++	precip	0.04	0.00	0.27	30.9	78.8	0	74
NH4+	precip	0.29	0.01	1.20	198.3	54.7	0	53
NO3-	precip	0.30	0.01	1.54	210.7	78.8	4	74
Na+	precip	0.18	0.02	2.35	127.2	78.8	0	74
Precip	precip	-	0.10	28.50	691.9	40.0	0	146
SO4--	precip	0.55	0.09	2.32	383.7	78.8	0	74
SO4-- corr	precip	0.54	0.08	2.29	374.1	78.8	0	74
cond	precip	16.14	4.20	38.50	11166.8	67.7	0	49
pH	precip	4.73	4.20	6.19	12907.8	67.7	0	49

SK0007R Topolníky

January 2013 - December 2013

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.02	2.75	144.5	97.6	0	34
Cl-	precip	0.18	0.05	0.84	87.1	97.6	0	34
K+	precip	0.05	0.00	0.64	24.9	97.6	0	34
Mg++	precip	0.03	0.00	0.27	17.1	97.6	0	34
NH4+	precip	0.47	0.15	1.24	228.5	96.1	0	33
NO3-	precip	0.38	0.12	0.87	185.9	97.6	0	34
Na+	precip	0.11	0.02	0.60	52.5	97.6	0	34
Precip	precip	-	0.40	69.30	490.7	99.7	0	39
SO4--	precip	0.52	0.11	3.13	253.1	97.6	0	34
SO4-- corr	precip	0.51	0.10	3.12	248.2	97.6	0	34
cond	precip	16.23	5.86	59.50	7962.4	95.5	0	31
pH	precip	4.82	4.16	6.58	7384.5	95.5	0	31

Annex 3

Annual statistics on gases and aerosol data

AM0001R Amberd

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.53	0.62	0.25	4.24	0.00	0.02	0.31	1.90	3.70	93.5	0	342
Cl-	aerosol	0.06	0.09	0.03	3.79	0.00	0.00	0.03	0.23	0.60	94.3	8	345
HNO3	air	0.11	0.09	0.07	2.55	0.00	0.01	0.08	0.32	0.49	91.0	0	333
K+	aerosol	0.12	0.13	0.07	3.57	0.00	0.01	0.07	0.44	0.68	93.7	0	343
Mg++	aerosol	0.05	0.07	0.02	4.29	0.00	0.00	0.02	0.18	0.44	94.3	0	345
NH3	air	1.27	0.95	0.87	2.83	0.00	0.13	1.13	2.88	5.91	94.8	1	347
NH4+	aerosol	0.72	0.65	0.50	2.60	0.01	0.08	0.55	1.86	4.01	86.9	0	318
NO2	air	0.26	0.26	0.14	3.78	0.00	0.01	0.17	0.86	0.96	62.5	0	229
NO3-	aerosol	0.54	0.71	0.26	3.78	0.00	0.02	0.27	2.05	3.92	91.8	0	336
Na+	aerosol	0.08	0.09	0.04	3.89	0.00	0.00	0.04	0.30	0.54	91.3	0	334
SO2	air	0.22	0.24	0.13	3.28	0.00	0.01	0.14	0.74	1.34	93.7	4	343
SO4--	aerosol	0.49	0.39	0.31	3.63	0.00	0.04	0.39	1.29	2.17	93.7	0	343
SO4-- corr	aerosol	0.48	0.38	0.33	2.81	-0.00	0.04	0.39	1.28	2.16	93.7	0	343

AT0002R Illmitz

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.89	1.86	2.44	1.75	0.72	1.13	2.34	7.30	10.77	98.4	0	359
PM1 mass	pm1	11.34	8.02	9.01	2.02	1.53	2.45	8.70	28.06	44.76	33.2	0	121
PM10 mass	pm10	20.64	13.47	16.89	1.92	1.92	5.69	17.41	45.21	86.45	98.1	0	358
PM25 mass	pm25	15.92	12.03	12.35	2.06	1.65	3.72	11.92	38.21	76.19	95.1	0	347
SO2	air	0.98	1.40	0.64	2.26	0.10	0.24	0.52	3.30	27.61	94.8	0	8308

AT0005R Vorhegg

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.93	0.56	0.81	1.64	0.30	0.39	0.72	1.97	4.35	99.2	0	362
PM10 mass	pm10	7.30	5.69	5.54	2.13	0.96	1.64	5.53	17.53	36.95	32.6	0	119
SO2	air	0.15	0.25	0.09	2.76	0.00	0.01	0.09	0.48	5.16	94.7	0	8296

AT0048R Zoebelboden

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.60	1.27	1.28	1.89	0.21	0.52	1.13	3.91	9.86	97.8	0	357
PM10 mass	pm10	9.40	8.57	6.11	2.81	0.29	0.76	7.58	25.98	51.92	31.5	0	115
SO2	air	0.23	0.40	0.14	2.94	-0.30	0.00	0.13	0.75	6.28	90.7	0	7947

BE0001R Offagne

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.34	2.28	1.62	2.54	0.00	0.30	1.70	6.70	19.70	96.3	0	8440

BE0032R Eupen

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	3.81	2.99	2.84	2.23	0.00	0.60	3.00	9.90	21.30	96.8	0	8482

BE0035R Vezin

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	4.48	3.26	3.43	2.15	0.20	0.90	3.70	11.10	25.80	94.5	0	8279

CH0001G Jungfrauojoch

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	115.31	28.72	112.13	1.26	60.66	78.67	111.80	164.58	279.34	89.9	0	7876
Ca++	aerosol	0.02	0.03	0.01	2.65	0.00	0.00	0.01	0.09	0.14	14.3	0	53
Ca++	pml	0.00	0.01	0.01	2.29	0.00	0.00	0.00	0.02	0.05	12.7	0	47
Cl-	aerosol	0.00	0.01	0.01	2.22	0.00	0.00	0.00	0.03	0.04	14.3	0	53
Cl-	pml	0.00	0.01	0.02	3.52	0.00	0.00	0.00	0.01	0.10	12.7	0	47
K+	aerosol	0.01	0.01	0.01	1.81	0.00	0.00	0.00	0.03	0.04	14.3	0	53
K+	pml	0.00	0.01	0.01	2.42	0.00	0.00	0.00	0.03	0.06	12.7	0	47
Mg++	aerosol	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.01	0.01	14.3	0	53
Mg++	pml	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	12.7	0	47
NH4+	aerosol	0.02	0.04	0.05	2.35	0.00	0.00	0.00	0.13	0.15	14.3	0	53
NH4+	pml	0.01	0.03	0.05	1.71	0.00	0.00	0.00	0.09	0.13	12.7	0	47
NO2	air	0.12	0.17	0.08	2.36	0.02	0.02	0.07	0.44	1.15	62.7	0	229
NO2	air	0.13	0.26	0.07	2.72	0.00	0.02	0.06	0.47	5.41	61.5	0	5388
NO3-	aerosol	0.01	0.01	0.01	2.62	0.00	0.00	0.00	0.04	0.04	14.3	0	53
NO3-	aerosol	0.02	0.03	0.02	2.35	0.00	0.00	0.01	0.06	0.14	14.6	0	54
NO3-	pml	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.01	0.01	12.7	0	47
NO3-	pml	0.02	0.03	0.02	2.35	0.00	0.00	0.01	0.07	0.14	13.0	0	48
Na+	aerosol	0.01	0.01	0.01	1.85	0.00	0.00	0.00	0.03	0.04	14.3	0	53
Na+	pml	0.00	0.01	0.01	2.66	0.00	0.00	0.00	0.04	0.06	12.7	0	47
PM10 mass	pml0	2.14	3.37	1.19	2.95	-0.60	0.10	1.10	7.50	36.00	100.0	0	365
SO2	air	0.03	0.05	0.03	2.45	-0.04	-0.01	0.01	0.11	0.51	97.8	0	357
SO4--	aerosol	0.03	0.05	0.06	2.07	0.00	0.00	0.00	0.15	0.20	14.3	0	53
SO4--	aerosol	0.09	0.09	0.06	2.67	0.00	0.01	0.05	0.28	0.52	100.0	0	365
SO4--	pml	0.02	0.04	0.05	2.27	0.00	0.00	0.00	0.10	0.20	12.7	0	47

CH0002R Payerne

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.35	0.36	0.22	2.74	-0.01	0.04	0.22	1.11	2.49	100.0	0	365
EC	pm25	0.41	0.23	0.35	1.80	0.09	0.12	0.37	0.94	1.06	15.1	0	55
HNO3+NO3-	air+aerosol	1.14	1.24	0.70	2.73	0.07	0.13	0.66	3.75	7.14	100.0	0	365
K+	aerosol	0.17	0.15	0.13	2.27	0.00	0.03	0.12	0.45	1.13	100.0	0	365
Mg++	aerosol	0.03	0.02	0.02	2.25	0.00	0.01	0.02	0.07	0.14	100.0	0	365
NH3	air	1.90	0.75	1.72	1.52	0.74	0.80	1.66	3.30	3.34	100.0	0	27
NH3+NH4+	air+aerosol	3.29	2.19	2.66	1.98	0.34	0.69	2.98	7.08	16.08	100.0	0	365
NH4+	aerosol	1.35	1.17	1.00	2.03	0.32	0.32	0.86	4.86	5.30	100.0	0	27
NO2	air	3.55	2.61	2.84	1.94	0.38	1.08	2.70	9.74	13.86	100.0	0	365
NO3-	aerosol	0.92	0.82	0.67	2.10	0.23	0.23	0.65	3.34	3.64	100.0	0	27
Na+	aerosol	0.16	0.19	0.10	2.89	0.00	0.02	0.09	0.55	1.31	100.0	0	365
OC	pm25	2.41	1.83	1.75	2.39	0.24	0.30	1.73	6.02	7.53	15.1	0	55
PM1 mass	pml	9.44	7.32	7.16	2.16	1.10	1.75	7.40	27.15	35.00	24.4	0	89
PM10 mass	pml0	15.47	12.27	11.74	2.12	1.70	3.13	11.90	42.98	72.30	100.0	0	365
PM25 mass	pm25	12.92	11.65	9.10	2.39	0.50	1.98	9.50	40.62	58.20	24.1	0	88
SO2	air	0.23	0.17	0.19	1.89	0.01	0.07	0.18	0.57	1.10	100.0	0	365
SO4--	aerosol	0.54	0.51	0.39	2.27	0.04	0.09	0.40	1.64	3.31	100.0	0	365
SO4-- corr	aerosol	0.52	0.51	0.36	2.34	0.04	0.08	0.38	1.63	3.29	100.0	0	365

CH0003R Tännikon

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	4.18	2.77	3.47	1.83	0.99	1.33	3.23	10.62	13.76	100.0	0	365
PM10 mass	pml0	15.30	11.69	11.78	2.09	1.60	3.30	11.80	41.64	67.80	100.0	0	365

CH0004R Chaumont

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.94	1.42	1.56	1.90	0.30	0.56	1.53	5.23	8.28	99.5	0	363
PM10 mass	pml0	7.94	7.20	5.42	2.60	-0.10	1.03	5.70	20.62	48.80	100.0	0	365

CH0005R Rigi

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.20	0.25	0.11	3.33	-0.02	0.01	0.10	0.74	1.61	98.9	0	361
EC	pm25	0.21	0.10	0.18	1.64	0.08	0.08	0.19	0.46	0.47	6.8	0	25
HNO3	air	0.19	0.09	0.16	1.65	0.06	0.06	0.16	0.40	0.44	100.0	0	27
HNO3+NO3-	air+aerosol	0.81	0.87	0.51	2.71	0.04	0.09	0.57	2.72	4.67	98.9	0	361
K+	aerosol	0.07	0.07	0.05	2.20	0.00	0.02	0.05	0.24	0.47	98.9	0	361
Mg++	aerosol	0.02	0.02	0.01	2.87	-0.01	0.00	0.01	0.06	0.15	98.9	0	361
NH3	air	0.86	0.63	0.57	2.71	0.05	0.08	0.81	2.00	2.08	100.0	0	27
NH3+NH4+	air+aerosol	1.70	1.37	1.22	2.37	0.15	0.25	1.36	4.00	9.16	98.9	0	361
NO2	air	1.33	1.45	0.88	2.34	0.11	0.30	0.73	4.35	9.50	93.7	0	342
NO3-	aerosol	0.58	0.47	0.43	2.05	0.10	0.10	0.43	1.95	2.01	100.0	0	27
Na+	aerosol	0.09	0.10	0.06	2.80	-0.01	0.01	0.06	0.32	0.88	98.9	0	361
OC	pm25	1.36	1.12	0.90	2.89	0.07	0.09	1.03	3.94	4.07	6.8	0	25
PM10 mass	pml0	7.68	7.19	5.19	2.59	-0.10	0.93	5.60	20.49	44.10	100.0	0	365
PM25 mass	pm25	6.54	6.68	4.55	2.54	-0.30	0.45	4.60	18.18	41.80	23.0	0	84
SO2	air	0.19	0.14	0.16	1.71	0.05	0.07	0.15	0.45	1.41	99.7	0	364
SO4--	aerosol	0.38	0.39	0.25	2.57	0.01	0.05	0.26	1.12	2.72	100.0	0	365
SO4-- corr	aerosol	0.36	0.39	0.24	2.60	0.01	0.04	0.25	1.11	2.72	100.0	0	365

CY0002R Ayia Marina

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	1.32	1.31	0.90	2.51	0.09	0.15	0.93	4.25	9.32	92.3	0	337
Ca++	pm25	0.19	0.55	0.08	2.76	0.04	0.04	0.06	0.61	5.91	94.0	0	343
Cl-	pm10	0.75	1.03	0.28	4.56	0.02	0.03	0.25	2.69	6.09	92.3	0	337
Cl-	pm25	0.05	0.13	0.02	2.98	0.01	0.01	0.01	0.22	1.44	94.0	0	343
EC	pm25	0.24	0.39	0.13	2.59	0.02	0.04	0.10	1.02	2.81	30.4	0	111
K+	pm10	0.11	0.09	0.09	1.87	0.02	0.03	0.09	0.24	1.19	92.3	0	337
K+	pm25	0.05	0.04	0.04	1.85	0.02	0.02	0.04	0.14	0.42	94.0	0	343
Mg++	pm10	0.15	0.10	0.12	2.05	0.02	0.03	0.12	0.33	0.67	92.3	0	337
Mg++	pm25	0.03	0.02	0.02	1.57	0.02	0.02	0.02	0.07	0.18	94.0	0	343
NH4+	pm10	0.44	0.40	0.25	3.74	0.00	0.01	0.36	1.23	2.02	92.3	0	337
NH4+	pm25	0.73	0.49	0.56	2.21	0.02	0.13	0.61	1.75	2.53	94.0	0	343
NO2	air	0.04	0.03	0.03	2.21	0.01	0.01	0.04	0.09	0.16	92.3	0	337
NO2	air	0.89	0.43	0.81	1.53	0.18	0.43	0.79	1.71	4.03	95.0	0	8320
NO3-	pm10	0.35	0.26	0.27	2.01	0.05	0.09	0.26	0.85	2.16	92.3	0	337
NO3-	pm25	0.04	0.07	0.02	3.04	0.01	0.01	0.01	0.15	0.70	94.0	0	343
Na+	pm10	1.22	0.87	0.92	2.24	0.13	0.22	1.04	2.93	4.45	92.3	0	337
Na+	pm25	0.18	0.17	0.12	2.42	0.02	0.03	0.14	0.50	1.35	94.0	0	343
OC	pm25	1.88	1.08	1.63	1.73	0.44	0.64	1.66	4.12	7.69	30.4	0	111
PM10 mass	pm10	26.40	34.52	20.56	1.84	4.10	8.30	20.10	57.05	442.60	100.0	0	365
PM25 mass	pm25	12.78	8.67	11.18	1.65	2.20	4.96	11.00	24.71	109.80	100.0	0	365
SO2	air	0.77	0.69	0.58	2.11	0.00	0.15	0.60	2.15	8.27	93.7	0	8212
SO4--	pm10	1.28	0.73	1.12	1.69	0.27	0.48	1.11	2.59	7.51	92.3	0	337
SO4--	pm25	1.02	0.58	0.87	1.78	0.17	0.35	0.87	2.25	3.27	94.0	0	343

CZ0001R Svratouch

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	13.92	8.48	11.38	2.02	1.00	4.00	12.00	29.10	52.00	46.0	5	168

CZ0003R Kosetice

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	128.54	41.13	122.95	1.34	25.73	79.92	121.63	199.48	438.07	95.3	24	8352
Ca++	pm10	0.11	0.08	0.08	2.76	0.01	0.01	0.10	0.28	0.35	99.7	5	52
EC	pm25	0.48	0.45	0.28	3.19	0.05	0.05	0.33	1.46	1.59	16.7	14	61
HNO3+NO3-	air+aerosol	0.94	0.65	0.79	1.78	0.16	0.32	0.77	2.15	5.80	99.9	0	365
K+	pm10	0.12	0.09	0.09	2.12	0.01	0.03	0.09	0.33	0.41	99.7	1	52
Mg++	pm10	0.03	0.03	0.02	2.64	0.01	0.01	0.03	0.09	0.12	99.7	17	52
NH3+NH4+	air+aerosol	2.12	1.31	1.76	1.94	0.02	0.54	1.83	4.72	10.69	99.5	1	363
Na+	pm10	0.12	0.12	0.07	2.86	0.03	0.03	0.07	0.43	0.46	99.7	25	52
OC	pm25	3.74	2.22	3.13	1.86	0.59	1.13	3.32	8.43	10.10	16.7	0	61
PM10 mass	pm10	14.41	11.90	10.81	2.25	1.00	3.10	12.00	34.80	88.00	49.6	7	181
PM10 mass	pm10	19.17	12.90	15.35	2.02	1.00	5.00	16.00	44.00	107.00	93.3	61	8172
PM25 mass	pm25	14.10	10.07	11.41	1.95	1.00	4.00	12.00	31.80	79.00	49.6	1	181
PM25 mass	pm25	15.31	12.61	11.51	2.22	1.00	3.00	12.00	37.00	128.00	95.8	214	8388
SO2	air	0.80	0.97	0.52	2.42	0.05	0.15	0.40	2.87	8.01	99.9	0	365
SO2	air	1.18	1.54	0.69	2.77	0.12	0.12	0.67	4.26	19.19	90.1	963	7894
SO2	air	1.18	1.54	0.69	2.77	0.12	0.12	0.67	4.26	19.19	90.1	963	7894
SO4--	aerosol	0.95	0.89	0.69	2.20	0.07	0.20	0.63	2.62	7.11	100.0	0	366
TC	pm25	4.23	2.61	3.50	1.89	0.69	1.23	3.64	9.81	11.69	16.7	0	61

CZ0005R Churanov

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.53	0.38	0.42	2.09	0.02	0.11	0.43	1.22	2.42	99.1	4	362
NH3+NH4+	air+aerosol	0.97	0.66	0.75	2.18	0.08	0.20	0.87	2.13	3.92	99.4	11	363
PM10 mass	pm10	8.16	7.87	4.46	3.37	1.00	1.00	6.00	23.00	52.00	88.5	119	324
SO2	air	0.43	0.61	0.21	3.22	0.05	0.05	0.20	1.74	4.15	99.4	109	363
SO4--	aerosol	0.55	0.51	0.37	2.58	0.03	0.07	0.37	1.64	2.87	99.7	0	364

DE0001R Westerland

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.19	1.95	1.70	1.98	0.40	0.65	1.63	5.67	16.19	96.4	0	352
PM10 mass	pm10	17.97	9.40	15.77	1.69	1.40	6.51	16.35	36.15	64.90	90.4	0	330
SO2	air	0.36	0.18	0.33	1.48	0.15	0.20	0.35	0.70	1.55	95.3	0	348

DE0002R Waldhof

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.11	0.13	0.07	2.99	0.01	0.01	0.06	0.37	1.43	99.7	14	364
Ca++	pm25	0.03	0.02	0.02	2.16	0.00	0.01	0.03	0.06	0.10	32.3	1	118
Cl-	aerosol	0.36	0.60	0.15	3.43	0.01	0.03	0.13	1.60	3.84	99.7	2	364
Cl-	pm25	0.10	0.15	0.04	4.49	0.01	0.01	0.05	0.48	0.83	32.3	40	118
EC	pm25	0.25	0.17	0.20	1.89	0.04	0.06	0.22	0.62	0.88	19.7	0	72
HNO3+NO3-	air+aerosol	0.81	0.58	0.67	1.84	0.16	0.27	0.62	2.07	4.13	99.2	0	362
K+	aerosol	0.16	0.18	0.11	2.10	0.01	0.04	0.11	0.42	1.55	99.7	0	364
K+	pm25	0.08	0.09	0.05	2.73	0.00	0.00	0.06	0.23	0.85	32.3	11	118
Mg++	aerosol	0.05	0.05	0.03	2.60	0.01	0.01	0.03	0.16	0.27	99.7	38	364
Mg++	pm25	0.01	0.02	0.01	4.16	0.00	0.00	0.01	0.05	0.09	32.3	19	118
NH3	air	1.47	1.36	1.05	2.34	0.02	0.27	1.02	3.68	11.37	99.7	0	364
NH3+NH4+	air+aerosol	2.22	1.50	1.86	1.80	0.54	0.75	1.84	5.05	11.62	99.2	0	362
NH4+	aerosol	0.74	0.79	0.45	2.94	0.01	0.08	0.44	2.37	4.92	99.7	3	364
NH4+	pm25	1.00	1.10	0.70	2.25	0.09	0.19	0.67	3.06	6.68	32.3	0	118
NO2	air	2.77	1.90	2.35	1.72	0.85	1.14	2.11	6.61	14.29	99.5	0	363
NO3-	aerosol	0.55	0.56	0.36	2.59	0.02	0.08	0.35	1.88	3.78	99.7	0	364
NO3-	pm25	0.47	0.65	0.19	4.43	0.01	0.02	0.23	1.96	3.81	32.3	0	118
Na+	aerosol	0.39	0.49	0.19	3.57	0.01	0.02	0.19	1.63	2.60	99.7	2	364
Na+	pm25	0.13	0.14	0.07	3.52	0.01	0.01	0.09	0.45	0.78	32.3	15	118
OC	pm25	2.39	1.42	2.06	1.73	0.64	0.85	2.10	5.55	8.03	19.7	0	72
PM1 mass	pml	7.13	4.60	5.94	1.88	0.10	2.30	6.00	15.71	31.20	100.0	1	365
PM10 mass	pml0	15.64	10.03	13.39	1.79	0.10	5.83	13.40	34.77	90.60	100.0	1	365
PM25 mass	pm25	11.79	8.95	9.51	1.93	0.10	3.70	8.90	30.72	55.40	100.0	1	365
SO2	air	0.39	0.28	0.31	1.94	0.03	0.11	0.30	1.05	1.61	99.2	0	362
SO2	air	0.51	0.40	0.41	1.89	0.10	0.15	0.40	1.36	3.00	96.7	0	353
SO4--	aerosol	0.68	0.52	0.54	1.95	0.02	0.17	0.54	1.67	3.91	99.7	0	364
SO4--	pm25	0.71	0.66	0.55	1.91	0.12	0.22	0.53	1.88	4.26	32.3	0	118
SO4-- corr	aerosol	0.65	0.53	0.50	2.04	0.02	0.15	0.51	1.66	3.90	99.7	0	364
SO4-- corr	pm25	0.70	0.67	0.54	1.95	0.09	0.21	0.52	1.88	4.26	32.3	0	118
TC	pm25	2.64	1.55	2.29	1.70	0.76	0.97	2.32	6.11	8.92	19.7	0	72

DE0003R Schauinsland

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	139.27	57.66	130.10	1.42	65.90	80.90	124.50	267.80	444.30	93.3	0	8169
Ca++	pm25	0.03	0.03	0.01	4.74	0.00	0.00	0.02	0.10	0.13	33.2	15	121
Cl-	pm25	0.02	0.03	0.01	2.33	0.01	0.01	0.01	0.06	0.26	33.2	101	121
EC	pm25	0.09	0.07	0.05	5.00	0.00	0.00	0.08	0.25	0.30	17.0	2	62
K+	pm25	0.04	0.05	0.02	3.26	0.00	0.00	0.03	0.15	0.26	33.2	34	121
Mg++	pm25	0.00	0.01	0.00	3.83	0.00	0.00	0.00	0.02	0.05	33.2	50	121
NH4+	pm25	0.55	0.73	0.29	3.56	0.01	0.01	0.33	2.00	4.38	33.2	8	121
NO2	air	0.95	0.90	0.71	2.08	0.10	0.28	0.64	2.92	5.54	92.1	0	336
NO3-	pm25	0.22	0.44	0.07	4.29	0.00	0.01	0.06	1.41	2.68	33.2	0	121
Na+	pm25	0.04	0.06	0.02	3.21	0.01	0.01	0.03	0.12	0.42	33.2	38	121
OC	pm25	1.25	0.96	0.94	2.21	0.18	0.23	0.99	3.29	3.83	17.0	0	62
PM10 mass	pml0	8.51	7.00	6.00	2.43	0.60	1.15	6.60	21.10	43.30	95.6	0	349
PM25 mass	pm25	6.79	5.71	4.95	2.28	0.60	1.14	5.10	17.66	35.40	95.1	0	347
SO2	air	0.26	0.18	0.22	1.74	0.10	0.10	0.20	0.55	1.65	98.1	0	358
SO4--	pm25	0.33	0.34	0.19	3.60	0.00	0.02	0.23	1.13	1.83	33.2	2	121
SO4-- corr	pm25	0.33	0.34	0.19	3.41	-0.00	0.02	0.23	1.13	1.83	33.2	2	121
TC	pm25	1.34	1.02	1.00	2.23	0.18	0.24	1.06	3.47	4.00	17.0	0	62

DE0007R Neuglobsow

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	156.70	55.24	149.07	1.35	73.00	101.10	141.50	271.40	516.90	84.1	0	7371
Ca++	aerosol	0.09	0.11	0.05	3.03	0.01	0.01	0.05	0.29	1.01	99.2	31	362
Ca++	pm25	0.03	0.02	0.02	2.16	0.00	0.00	0.02	0.05	0.10	33.2	1	121
Cl-	aerosol	0.33	0.61	0.14	3.52	0.01	0.03	0.11	1.33	4.83	99.5	8	363
Cl-	pm25	0.06	0.12	0.02	4.42	0.01	0.01	0.01	0.29	0.70	33.4	69	122
EC	pm25	0.26	0.18	0.21	1.80	0.07	0.08	0.19	0.69	0.93	18.6	0	68
HNO3	air	0.21	0.21	0.16	2.11	0.02	0.06	0.14	0.59	2.05	98.9	0	361
HNO3+NO3-	air+aerosol	0.61	0.46	0.48	1.98	0.03	0.16	0.47	1.57	2.69	98.9	0	361
K+	aerosol	0.11	0.08	0.09	1.87	0.01	0.03	0.10	0.26	0.78	99.2	1	362
K+	pm25	0.07	0.08	0.05	2.46	0.00	0.01	0.05	0.23	0.72	33.4	6	122
Mg++	aerosol	0.05	0.04	0.03	2.50	0.01	0.01	0.05	0.15	0.30	99.2	43	362
Mg++	pm25	0.01	0.02	0.00	4.34	0.00	0.00	0.01	0.05	0.08	33.4	25	122
NH3	air	0.75	0.76	0.52	2.28	0.08	0.14	0.48	2.12	5.97	90.7	0	331
NH3+NH4+	air+aerosol	1.48	1.02	1.23	1.82	0.24	0.51	1.20	3.61	6.64	90.7	0	331
NH4+	aerosol	0.70	0.72	0.47	2.52	0.01	0.10	0.44	2.31	4.95	99.2	0	362
NH4+	pm25	0.89	0.92	0.60	2.52	0.01	0.14	0.57	2.92	5.95	33.4	1	122
NO2	air	1.80	1.17	1.59	1.57	0.40	0.92	1.48	3.80	10.63	98.9	0	361
NO3-	aerosol	0.40	0.42	0.26	2.58	0.01	0.06	0.24	1.27	2.30	99.5	1	363
NO3-	pm25	0.32	0.44	0.11	5.00	0.01	0.01	0.13	1.32	2.40	33.4	0	122
Na+	aerosol	0.34	0.49	0.15	3.75	0.01	0.02	0.16	1.47	3.05	99.2	6	362
Na+	pm25	0.11	0.13	0.06	3.59	0.01	0.01	0.07	0.45	0.73	33.4	18	122
OC	pm25	2.25	1.71	1.80	1.92	0.61	0.67	1.70	6.18	9.66	18.6	0	68
PM10 mass	pml0	13.80	8.30	11.98	1.68	2.70	5.22	11.50	29.25	64.40	99.7	0	364
PM25 mass	pm25	10.05	7.91	7.92	1.98	0.40	2.63	7.50	26.31	49.10	100.0	0	365
SO2	air	0.54	0.59	0.39	2.10	0.10	0.10	0.35	1.74	4.45	99.7	0	364
SO4--	aerosol	0.66	0.57	0.51	2.10	0.01	0.16	0.49	1.99	4.12	99.5	1	363
SO4--	pm25	0.65	0.64	0.49	2.06	0.09	0.12	0.48	2.18	4.01	33.4	0	122
SO4-- corr	aerosol	0.63	0.58	0.47	2.23	-0.08	0.14	0.46	1.98	4.11	99.5	1	363
SO4-- corr	pm25	0.65	0.64	0.48	2.11	0.05	0.12	0.47	2.18	4.00	33.4	0	122
TC	pm25	2.51	1.85	2.04	1.87	0.71	0.79	1.92	6.81	10.52	18.6	0	68

DE0008R Schmücke

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.03	0.01	5.37	0.00	0.00	0.03	0.09	0.16	33.4	17	122
Cl-	pm25	0.03	0.05	0.01	3.04	0.01	0.01	0.01	0.14	0.30	33.4	88	122
EC	pm25	0.18	0.16	0.12	2.94	0.00	0.02	0.13	0.51	1.01	17.3	0	63
K+	pm25	0.06	0.11	0.03	3.59	0.00	0.00	0.03	0.16	0.90	33.4	35	122
Mg++	pm25	0.01	0.01	0.00	5.01	0.00	0.00	0.00	0.03	0.08	33.4	51	122
NH4+	pm25	0.71	0.85	0.32	4.93	0.01	0.01	0.54	2.07	6.09	33.4	18	122
NO2	air	2.02	1.36	1.75	1.65	0.44	0.93	1.64	4.66	12.26	96.4	0	352
NO3-	pm25	0.28	0.50	0.08	7.42	0.00	0.00	0.10	1.16	3.58	33.4	9	122
Na+	pm25	0.05	0.08	0.02	3.82	0.00	0.00	0.02	0.27	0.44	33.4	52	122
OC	pm25	1.71	1.90	1.19	2.35	0.10	0.36	1.19	4.89	13.60	17.3	0	63
PM10 mass	pm10	10.48	7.75	7.84	2.32	0.10	1.73	8.70	24.77	51.60	100.0	1	365
PM25 mass	pm25	7.97	7.06	5.45	2.59	0.10	1.03	6.40	21.71	47.80	100.0	1	365
SO2	air	0.54	0.62	0.35	2.50	0.10	0.10	0.30	1.78	4.35	95.3	0	348
SO4--	pm25	0.51	0.47	0.22	6.60	0.00	0.00	0.40	1.57	2.59	33.4	11	122
SO4-- corr	pm25	0.50	0.47	0.22	6.59	0.00	0.00	0.40	1.56	2.58	33.4	11	122
TC	pm25	1.89	2.04	1.33	2.31	0.11	0.38	1.33	5.20	14.61	17.3	0	63

DE0009R Zingst

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.09	1.21	1.85	1.63	0.39	0.81	1.88	4.32	11.13	94.8	0	346
PM10 mass	pm10	13.94	8.47	11.99	1.72	2.10	4.80	11.80	30.45	64.40	100.0	0	365
SO2	air	0.56	0.40	0.49	1.65	0.15	0.25	0.45	1.24	4.40	99.2	0	362

DE0044R Melpitz

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.12	0.11	0.10	1.75	0.01	0.04	0.10	0.27	1.46	100.0	0	365
Ca++	pm25	0.07	0.12	0.05	1.72	0.01	0.03	0.05	0.11	1.98	100.0	0	365
Cl-	pm10	0.21	0.40	0.06	5.73	0.00	0.00	0.06	1.01	2.87	100.0	0	365
Cl-	pm25	0.07	0.11	0.03	5.20	-0.00	0.00	0.02	0.32	0.65	100.0	0	365
EC	pm10	0.45	0.32	0.36	1.90	0.05	0.13	0.35	1.14	2.02	100.0	0	365
K+	pm10	0.08	0.08	0.06	2.13	0.01	0.02	0.05	0.24	0.73	100.0	0	365
K+	pm25	0.06	0.08	0.03	2.84	0.00	0.01	0.03	0.23	0.71	100.0	0	365
Mg++	pm10	0.03	0.03	0.02	2.52	0.00	0.00	0.02	0.11	0.21	100.0	0	365
Mg++	pm25	0.01	0.01	0.01	2.39	0.00	0.00	0.01	0.02	0.08	100.0	0	365
NH4+	pm10	1.31	1.23	0.91	2.36	0.06	0.22	0.86	4.18	7.50	99.7	0	364
NH4+	pm25	1.21	1.14	0.85	2.32	0.09	0.20	0.79	3.99	6.71	100.0	0	365
NO3-	pm10	0.71	0.76	0.39	3.22	0.02	0.06	0.44	2.30	5.29	100.0	0	365
NO3-	pm25	0.57	0.71	0.23	4.35	0.01	0.02	0.28	2.00	4.89	100.0	0	365
Na+	pm10	0.20	0.29	0.10	3.55	-0.00	0.01	0.10	0.88	1.97	100.0	0	365
Na+	pm25	0.06	0.08	0.04	3.53	-0.00	0.00	0.04	0.25	0.51	100.0	0	365
OC	pm10	3.65	2.70	2.94	1.93	0.52	1.03	3.10	9.09	21.10	100.0	0	365
PM10 mass	pm10	22.04	10.43	19.80	1.60	3.67	8.73	20.40	42.86	66.24	100.0	0	366
PM25 mass	pm25	18.03	10.13	15.82	1.65	4.37	6.88	15.86	40.37	63.06	100.0	0	366
SO4--	pm10	0.70	0.59	0.54	2.02	0.08	0.18	0.52	1.92	3.85	100.0	0	365
SO4--	pm25	0.64	0.54	0.49	2.05	0.07	0.15	0.47	1.87	3.38	100.0	0	365
SO4-- corr	pm10	0.69	0.59	0.52	2.09	0.08	0.15	0.50	1.89	3.84	100.0	0	365
SO4-- corr	pm25	0.64	0.54	0.49	2.06	0.07	0.15	0.46	1.87	3.37	100.0	0	365
TC	pm10	4.10	2.95	3.34	1.89	0.63	1.22	3.48	10.31	22.96	100.0	0	365

DK0003R Tange

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.18	0.27	0.11	3.11	-0.08	-0.01	0.10	0.62	2.73	88.1	109	322
Cl-	aerosol	2.14	2.41	1.16	3.24	-0.04	0.18	1.19	7.38	14.76	91.8	20	335
HNO3+NO3-	air+aerosol	0.63	0.54	0.46	2.24	0.02	0.12	0.46	1.91	2.88	90.9	6	332
K+	aerosol	0.14	0.11	0.11	2.03	0.01	0.03	0.11	0.31	1.05	87.6	21	320
NH3	air	1.03	0.86	0.68	3.00	0.00	0.09	0.81	2.77	5.17	83.5	16	305
NH4+	aerosol	0.90	0.79	0.66	2.17	0.10	0.19	0.67	2.32	6.15	89.0	1	325
Na+	aerosol	1.13	1.08	0.72	2.74	0.01	0.14	0.70	3.48	6.44	87.6	1	320
SO2	air	0.14	0.16	0.09	2.55	0.00	0.02	0.09	0.42	1.21	86.8	310	317
SO4--	aerosol	0.53	0.37	0.45	1.80	0.07	0.16	0.48	0.99	3.64	88.4	2	323
SO4-- corr	aerosol	0.44	0.39	0.35	2.11	-0.22	0.07	0.38	0.96	3.62	88.4	2	323

DK0005R Keldsnor

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.45	0.89	0.25	2.84	-0.18	0.04	0.26	1.37	15.49	90.7	7807	7948
NO2	air	2.26	2.30	1.48	2.58	-0.05	0.32	1.49	6.80	23.20	90.7	5951	7948

DK0008R Anholt

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.24	0.35	0.15	2.69	-0.04	0.01	0.15	0.71	3.33	88.1	73	322
Cl-	aerosol	3.17	5.87	1.45	4.20	0.01	0.08	1.80	9.40	91.58	89.8	29	328
HNO3+NO3-	air+aerosol	0.60	0.52	0.43	2.32	-0.00	0.10	0.45	1.72	3.07	98.8	17	361
K+	aerosol	0.12	0.11	0.09	2.20	0.00	0.03	0.09	0.29	1.41	88.1	38	322
NH3	air	0.19	0.29	0.07	5.54	-0.00	0.00	0.08	0.72	2.22	86.8	180	317
NH4+	aerosol	0.72	0.71	0.48	2.67	0.00	0.10	0.47	2.24	4.39	87.0	15	318
NO	air	1.10	3.45	0.65	2.89	-0.04	0.09	0.70	2.99	244.57	89.1	7381	7805
NO2	air	2.07	1.52	1.68	1.91	-3.72	0.57	1.71	4.63	12.97	89.1	6257	7805
Na+	aerosol	1.85	1.70	1.22	2.73	-0.00	0.20	1.33	5.07	11.78	87.9	2	321
SO2	air	0.24	0.22	0.17	2.37	-0.00	0.04	0.17	0.63	1.83	89.8	306	328
SO4--	aerosol	0.61	0.43	0.51	1.77	0.00	0.20	0.54	1.38	4.13	89.8	1	328
SO4-- corr	aerosol	0.46	0.45	0.33	2.34	-0.10	0.06	0.34	1.32	4.13	89.8	1	328

DK0010G Nord, Greenland

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.02	0.01	0.01	2.52	0.00	0.00	0.02	0.05	0.06	71.0	37	37
Cl-	aerosol	0.12	0.18	0.04	5.57	-0.01	-0.00	0.02	0.63	0.66	78.6	33	41
HNO3+NO3-	air+aerosol	0.02	0.01	0.01	2.42	-0.00	-0.00	0.01	0.05	0.05	78.6	34	41
K+	aerosol	0.01	0.01	0.00	2.84	0.00	0.00	0.00	0.02	0.02	71.0	37	37
NH3	air	0.00	0.00	0.00	1.83	-0.00	-0.00	0.00	0.01	0.01	78.6	41	41
NH4+	aerosol	0.02	0.02	0.02	2.59	0.00	0.00	0.02	0.08	0.08	59.5	31	31
Na+	aerosol	0.11	0.12	0.05	4.30	0.00	0.00	0.06	0.41	0.45	78.6	16	41
SO2	air	0.08	0.26	0.02	5.95	-0.00	-0.00	0.02	0.23	1.65	78.6	40	41
SO4--	aerosol	0.10	0.11	0.06	3.51	0.00	0.01	0.08	0.33	0.58	78.6	18	41
SO4-- corr	aerosol	0.04	0.37	0.06	3.11	-2.16	0.00	0.07	0.31	0.56	78.6	18	41

DK0012R Risoe

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.25	0.37	0.14	3.11	-0.03	0.01	0.14	0.73	3.00	93.1	88	340
Cl-	aerosol	2.04	5.59	0.73	3.70	-0.07	0.09	0.74	6.84	56.19	95.5	58	349
HNO3+NO3-	air+aerosol	0.85	0.66	0.65	2.13	0.07	0.17	0.66	2.14	3.98	95.8	2	350
K+	aerosol	0.15	0.17	0.11	2.10	-0.00	0.03	0.11	0.34	1.71	93.1	27	340
NH3	air	0.74	0.88	0.39	3.90	-0.00	0.02	0.48	2.26	6.92	96.9	48	354
NH4+	aerosol	1.06	0.84	0.80	2.12	0.08	0.24	0.77	2.88	5.09	95.0	1	347
NO	air	0.58	2.37	0.20	3.16	-0.49	0.04	0.17	1.56	58.07	94.3	8035	8259
NO2	air	2.78	2.73	1.96	2.29	0.02	0.55	1.90	8.36	21.99	94.3	5712	8259
Na+	aerosol	1.42	3.95	0.60	3.22	0.00	0.09	0.59	4.33	48.83	92.8	1	339
SO2	air	0.26	0.26	0.19	2.15	0.02	0.06	0.19	0.75	2.44	93.9	319	343
SO4--	aerosol	0.63	0.52	0.50	1.92	0.08	0.17	0.51	1.69	4.23	95.5	1	349
SO4-- corr	aerosol	0.52	0.47	0.39	2.18	-0.01	0.09	0.41	1.37	4.22	95.5	1	349

DK0031R Ulborg

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.18	0.22	0.11	2.99	-0.04	0.01	0.11	0.73	1.41	91.0	103	332
Cl-	aerosol	2.14	2.41	1.16	3.24	-0.04	0.18	1.19	7.38	14.76	91.8	20	335
HNO3+NO3-	air+aerosol	0.64	0.62	0.43	2.49	0.02	0.08	0.47	1.89	4.06	92.3	24	337
K+	aerosol	0.11	0.06	0.09	1.93	-0.00	0.03	0.10	0.23	0.43	91.0	25	332
NH3	air	0.59	0.65	0.33	3.48	0.00	0.04	0.38	1.94	4.25	91.5	48	334
NH4+	aerosol	0.84	0.85	0.55	2.60	0.04	0.11	0.61	2.60	5.16	89.3	14	326
Na+	aerosol	1.43	1.43	0.82	3.16	0.01	0.13	0.92	4.44	8.21	90.7	1	331
SO2	air	0.14	0.15	0.09	2.78	0.00	0.01	0.10	0.42	1.08	91.8	326	335
SO4--	aerosol	0.56	0.39	0.46	2.03	0.00	0.15	0.50	1.23	3.38	91.8	2	335
SO4-- corr	aerosol	0.45	0.42	0.31	2.57	-0.00	0.06	0.35	1.20	3.36	91.8	2	335

EE0009R Lahemaa

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.45	1.64	2.02	1.88	0.23	0.66	2.00	5.70	11.99	97.3	0	355
SO2	air	1.05	1.00	0.81	2.04	0.04	0.27	0.79	2.60	11.15	96.2	2	351

EE0011R Vilsandi

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.07	1.70	1.51	2.30	0.08	0.38	1.53	5.30	13.69	99.5	0	363
SO2	air	0.52	0.59	0.36	2.29	0.04	0.09	0.34	1.29	6.73	99.5	2	363

ES0001R San Pablo de los Montes

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.21	0.21	0.13	2.60	0.02	0.03	0.12	0.59	1.30	97.7	6	357
Ca++	pm25	0.04	0.02	0.03	1.76	0.01	0.01	0.04	0.08	0.09	16.4	1	60
Cl-	pm10	0.18	0.31	0.09	2.52	0.06	0.06	0.06	1.10	1.27	16.4	45	60
Cl-	pm25	0.05	0.02	0.05	1.37	0.04	0.04	0.04	0.11	0.14	16.4	53	60
EC	pm25	0.09	0.07	0.07	2.08	0.01	0.02	0.08	0.18	0.46	13.7	0	50
HNO3+NO3-	air+aerosol	0.37	0.14	0.33	1.60	0.04	0.21	0.34	0.63	1.06	99.1	9	362
K+	pm10	0.09	0.11	0.06	2.21	0.01	0.02	0.06	0.23	1.50	97.7	1	357
K+	pm25	0.05	0.05	0.03	2.47	0.01	0.01	0.03	0.22	0.24	16.4	4	60
Mg++	pm10	0.04	0.03	0.03	2.02	0.01	0.01	0.03	0.10	0.17	97.7	4	357
Mg++	pm25	0.01	0.00	0.01	1.16	0.01	0.01	0.01	0.02	0.02	16.4	36	60
NH3	air	1.09	0.65	0.90	1.89	0.39	0.39	1.07	2.56	3.03	99.7	16	52
NH3+NH4+	air+aerosol	1.82	0.95	1.56	1.78	0.23	0.56	1.67	3.55	4.87	99.4	0	363
NH4+	pm10	0.43	0.26	0.36	1.81	0.10	0.12	0.38	1.03	1.47	16.4	0	60
NH4+	pm25	0.27	0.17	0.23	1.80	0.07	0.08	0.23	0.59	1.06	16.4	0	60
NO	air	0.04	0.08	0.03	2.41	0.00	0.01	0.02	0.16	1.55	98.5	0	8631
NO2	air	0.80	0.78	0.53	2.82	0.01	0.06	0.62	2.16	11.93	98.5	0	8631
NO3-	pm10	0.13	0.10	0.10	2.17	0.01	0.03	0.10	0.34	0.77	97.5	17	356
Na+	pm10	0.29	0.26	0.21	2.26	0.05	0.05	0.20	0.80	1.73	97.7	41	357
Na+	pm25	0.06	0.03	0.05	1.87	0.02	0.02	0.06	0.12	0.17	16.4	17	60
OC	pm25	1.79	1.01	1.55	1.72	0.54	0.71	1.42	3.84	4.35	14.0	0	51
PM10 mass	pm10	10.03	6.20	8.20	1.95	1.00	3.00	9.00	22.00	39.00	96.9	0	354
PM25 mass	pm25	5.35	3.06	4.52	1.82	1.00	2.00	5.00	11.00	20.00	94.4	0	345
SO2	air	0.37	0.30	0.31	1.65	0.05	0.17	0.28	0.81	8.34	98.7	0	8646
SO4--	pm10	0.34	0.23	0.27	2.04	0.02	0.07	0.31	0.74	1.47	97.5	2	356
SO4--	pm25	0.22	0.12	0.19	1.89	0.05	0.05	0.22	0.45	0.58	16.4	0	60
SO4-- corr	pm10	0.32	0.22	0.25	2.15	-0.02	0.06	0.29	0.72	1.40	97.5	2	356
SO4-- corr	pm25	0.22	0.12	0.18	1.95	0.04	0.05	0.22	0.45	0.57	16.4	0	60

ES0005R Noya

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.34	0.18	0.28	2.09	0.03	0.04	0.32	0.66	1.35	94.7	32	346
NH3+NH4+	air+aerosol	1.05	0.51	0.94	1.64	0.22	0.41	0.96	2.00	3.07	96.7	0	353
NO	air	0.06	0.15	0.03	2.49	0.01	0.01	0.02	0.21	5.04	99.1	0	8684
NO2	air	0.74	0.84	0.40	3.46	0.02	0.03	0.49	2.20	13.14	99.1	0	8684
NO3-	pm10	0.14	0.14	0.07	4.09	0.01	0.01	0.09	0.40	0.82	86.8	99	317
PM10 mass	pm10	6.77	5.31	4.80	2.45	1.00	1.00	6.00	18.00	34.00	85.7	4	313
SO2	air	0.69	0.91	0.47	2.38	0.03	0.10	0.46	1.97	24.81	99.4	0	8710
SO4--	pm10	0.39	0.30	0.27	2.60	0.02	0.05	0.35	0.96	1.63	86.8	11	317

ES0006R Mahón

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.57	0.22	0.52	1.57	0.04	0.27	0.54	0.98	1.62	90.1	3	329
NH3+NH4+	air+aerosol	1.32	0.54	1.21	1.52	0.41	0.56	1.25	2.35	3.83	96.6	0	353
NO	air	0.10	0.52	0.02	3.63	0.00	0.00	0.01	0.36	14.87	97.1	0	8509
NO2	air	1.19	1.68	0.76	2.42	0.01	0.21	0.71	3.89	28.88	97.1	0	8509
NO3-	pm10	0.35	0.20	0.27	2.54	0.01	0.03	0.34	0.72	1.04	93.6	13	342
PM10 mass	pm10	17.39	6.95	16.13	1.48	2.00	9.00	16.00	32.00	47.00	93.1	0	340
PM25 mass	pm25	5.80	2.43	5.36	1.49	2.00	3.00	5.00	10.00	19.00	90.9	0	332
SO2	air	0.18	0.23	0.13	2.15	0.01	0.04	0.14	0.42	6.71	97.3	0	8523
SO4--	pm10	0.82	0.39	0.74	1.54	0.13	0.38	0.70	1.70	3.22	93.6	0	342

ES0007R Viznar

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.45	0.33	0.31	2.65	0.02	0.06	0.40	1.11	1.48	82.1	4	300
Ca++	pm25	0.23	0.18	0.17	2.35	0.01	0.04	0.19	0.67	0.87	16.4	0	60
Cl-	pm10	0.12	0.17	0.08	1.93	0.06	0.06	0.06	0.54	1.15	16.4	46	60
Cl-	pm25	0.08	0.16	0.05	1.97	0.03	0.04	0.04	0.29	1.14	16.4	45	60
HNO3+NO3-	air+aerosol	0.38	0.16	0.35	1.60	0.03	0.19	0.36	0.66	1.05	96.4	4	352
K+	pm10	0.18	0.14	0.14	2.16	0.01	0.03	0.14	0.47	0.90	82.1	0	300
K+	pm25	0.18	0.14	0.14	2.06	0.01	0.05	0.14	0.57	0.61	16.4	1	60
Mg++	pm10	0.06	0.04	0.05	2.05	0.01	0.01	0.05	0.15	0.23	82.1	3	300
Mg++	pm25	0.04	0.04	0.03	2.09	0.01	0.01	0.03	0.13	0.16	16.4	1	60
NH3	air	1.66	5.31	0.82	2.30	0.39	0.39	0.86	2.13	39.00	99.7	23	52
NH3+NH4+	air+aerosol	1.27	0.56	1.14	1.62	0.31	0.48	1.20	2.24	3.35	94.4	0	345
NH4+	pm10	0.69	0.53	0.53	2.04	0.13	0.17	0.56	1.90	2.90	16.4	0	60
NH4+	pm25	0.36	0.18	0.31	1.69	0.11	0.12	0.34	0.77	0.86	16.4	0	60
NO	air	0.22	0.41	0.14	2.12	0.02	0.07	0.12	0.73	10.15	97.0	0	8501
NO2	air	1.35	1.56	0.89	2.46	0.03	0.20	0.86	4.12	25.32	97.0	0	8501
NO3-	pm10	0.19	0.12	0.14	2.36	0.01	0.02	0.18	0.39	0.82	82.1	15	300
NO3-	pm25	0.13	0.15	0.09	2.47	0.02	0.02	0.09	0.33	0.97	16.4	0	60
Na+	pm10	0.33	0.27	0.24	2.28	0.05	0.05	0.24	0.92	1.60	82.1	28	300
Na+	pm25	0.23	0.30	0.14	2.46	0.02	0.04	0.13	1.06	1.44	16.4	2	60
PM10 mass	pm10	14.03	8.66	11.36	2.01	1.00	3.00	13.00	28.30	56.00	81.0	0	296
PM25 mass	pm25	9.36	4.71	8.06	1.79	1.00	3.00	9.00	17.00	29.00	77.5	0	283
SO2	air	0.34	0.41	0.24	2.24	0.02	0.06	0.24	0.93	13.14	96.9	0	8487
SO4--	pm10	0.48	0.31	0.38	2.12	0.02	0.10	0.44	1.06	1.91	82.1	1	300
SO4--	pm25	0.43	0.28	0.36	1.88	0.07	0.11	0.35	0.98	1.64	16.4	0	60
SO4-- corr	pm10	0.44	0.29	0.33	2.25	0.01	0.08	0.41	0.98	1.77	82.1	1	300
SO4-- corr	pm25	0.41	0.28	0.34	1.92	0.06	0.10	0.34	0.96	1.62	16.4	0	60

ES0008R Niembro

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.23	0.19	0.18	2.00	0.03	0.06	0.18	0.58	1.40	95.0	0	347
Ca++	pm25	0.05	0.03	0.04	1.88	0.01	0.01	0.04	0.12	0.15	16.4	0	60
Cl-	pm10	1.41	1.68	0.50	5.29	0.06	0.06	0.64	4.42	7.12	16.4	17	60
Cl-	pm25	0.14	0.25	0.07	2.62	0.03	0.03	0.04	0.70	1.48	16.4	39	60
HNO3+NO3-	air+aerosol	0.55	0.37	0.46	1.85	0.04	0.24	0.44	1.23	2.82	99.1	8	362
K+	pm10	0.10	0.06	0.08	1.90	0.01	0.03	0.09	0.18	0.48	95.0	8	347
K+	pm25	0.03	0.03	0.03	2.06	0.01	0.01	0.03	0.09	0.16	16.4	1	60
Mg++	pm10	0.20	0.15	0.15	2.17	0.01	0.04	0.15	0.55	0.92	95.0	0	347
Mg++	pm25	0.02	0.02	0.02	1.99	0.01	0.01	0.01	0.07	0.12	16.4	8	60
NH3	air	0.64	0.42	0.55	1.70	0.39	0.39	0.39	1.56	1.85	97.8	35	51
NH3+NH4+	air+aerosol	1.63	0.75	1.47	1.59	0.33	0.68	1.50	3.09	5.37	99.1	0	362
NH4+	pm10	0.53	0.57	0.36	2.31	0.10	0.11	0.29	2.07	3.01	16.4	0	60
NH4+	pm25	0.24	0.31	0.16	2.15	0.05	0.06	0.14	0.80	2.11	16.4	0	60
NO	air	0.17	0.28	0.10	2.23	0.02	0.05	0.07	0.63	5.37	98.0	0	8582
NO2	air	1.14	1.04	0.84	2.18	0.03	0.25	0.83	3.15	9.90	98.0	0	8582
NO3-	pm10	0.25	0.25	0.16	3.08	0.01	0.01	0.21	0.66	1.88	95.0	24	347
NO3-	pm25	0.07	0.14	0.04	2.72	0.01	0.01	0.04	0.24	1.00	16.4	11	60
Na+	pm10	1.68	1.34	1.28	2.12	0.09	0.34	1.35	4.03	10.19	95.0	0	347
Na+	pm25	0.21	0.24	0.14	2.66	0.02	0.02	0.14	1.00	1.17	16.4	6	60
PM10 mass	pm10	15.64	6.96	14.16	1.57	4.00	7.00	14.00	29.75	40.00	94.2	0	344
PM25 mass	pm25	6.54	3.81	5.65	1.70	2.00	3.00	5.00	15.00	25.00	89.0	0	325
SO2	air	0.60	1.01	0.37	2.42	0.03	0.10	0.33	1.90	15.12	97.1	0	8509
SO4--	pm10	0.68	0.49	0.56	1.86	0.10	0.19	0.54	1.54	3.20	95.0	0	347
SO4--	pm25	0.34	0.27	0.26	2.23	0.01	0.08	0.27	0.84	1.48	16.4	1	60
SO4-- corr	pm10	0.54	0.50	0.39	2.30	-0.04	0.09	0.37	1.44	3.11	95.0	0	347
SO4-- corr	pm25	0.33	0.27	0.26	2.10	0.00	0.06	0.26	0.83	1.47	16.4	1	60

ES0009R Campisabalos

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.24	0.24	0.15	2.66	0.02	0.03	0.14	0.79	1.35	85.7	10	313
Ca++	pm25	0.10	0.12	0.06	2.46	0.01	0.01	0.06	0.40	0.61	16.4	1	60
Cl-	pm10	0.11	0.12	0.08	1.95	0.06	0.06	0.06	0.45	0.55	16.4	45	60
Cl-	pm25	0.05	0.02	0.05	1.40	0.04	0.04	0.04	0.12	0.16	16.4	50	60
EC	pm25	0.06	0.03	0.05	1.83	0.00	0.01	0.05	0.14	0.15	12.6	0	46
HNO3+NO3-	air+aerosol	0.28	0.10	0.27	1.38	0.03	0.17	0.26	0.46	0.92	92.5	1	338
K+	pm10	0.04	0.05	0.03	2.29	0.01	0.01	0.03	0.11	0.43	85.7	16	313
K+	pm25	0.03	0.03	0.02	2.21	0.01	0.01	0.02	0.11	0.18	16.4	8	60
Mg++	pm10	0.02	0.02	0.02	1.85	0.01	0.01	0.02	0.06	0.12	85.7	16	313
Mg++	pm25	0.01	0.00	0.01	1.28	0.01	0.01	0.01	0.02	0.03	16.4	25	60
NH3	air	0.57	0.31	0.51	1.56	0.39	0.39	0.39	1.28	1.36	97.8	37	51
NH3+NH4+	air+aerosol	0.85	0.37	0.77	1.58	0.22	0.33	0.80	1.52	1.95	99.9	0	365
NH4+	pm10	0.35	0.24	0.29	1.84	0.10	0.10	0.28	1.01	1.03	16.4	0	60
NH4+	pm25	0.21	0.14	0.17	1.83	0.06	0.07	0.17	0.55	0.76	16.4	0	60
NO	air	0.03	0.04	0.02	1.96	0.00	0.01	0.02	0.08	1.05	99.1	0	8680
NO2	air	0.71	0.56	0.60	1.78	0.02	0.23	0.63	1.39	16.88	99.1	0	8680
NO3-	pm10	0.07	0.05	0.05	2.15	0.01	0.01	0.05	0.18	0.36	85.4	36	312
NO3-	pm25	0.04	0.03	0.03	1.97	0.01	0.01	0.04	0.13	0.17	16.4	6	60
Na+	pm10	0.17	0.17	0.12	2.20	0.05	0.05	0.12	0.51	1.10	85.7	106	313
Na+	pm25	0.06	0.04	0.05	2.05	0.02	0.02	0.04	0.15	0.20	16.4	20	60
OC	pm25	1.79	1.51	1.46	1.80	0.50	0.68	1.41	3.96	10.17	13.4	0	49
PM10 mass	pm10	6.51	5.23	4.83	2.20	1.00	1.00	5.00	17.00	33.00	85.9	0	314
PM10 mass	pm10	8.94	7.35	7.13	1.91	0.67	2.74	6.69	22.08	101.10	98.4	0	8622
PM25 mass	pm25	4.80	4.05	3.47	2.26	1.00	1.00	3.00	14.00	24.00	79.9	0	292
SO2	air	0.27	0.16	0.24	1.60	0.02	0.12	0.24	0.53	3.50	98.7	0	8644
SO4--	pm10	0.28	0.19	0.22	2.10	0.02	0.06	0.26	0.70	0.98	85.4	1	312
SO4--	pm25	0.21	0.13	0.17	1.97	0.03	0.05	0.17	0.51	0.52	16.4	0	60
SO4-- corr	pm10	0.26	0.19	0.20	2.23	0.01	0.05	0.23	0.68	0.95	85.4	1	312
SO4-- corr	pm25	0.21	0.13	0.17	1.99	0.03	0.04	0.17	0.51	0.51	16.4	0	60

ES0010R Cabo de Creus

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.60	0.34	0.52	1.78	0.04	0.26	0.52	1.26	2.35	92.8	6	339
NH3+NH4+	air+aerosol	1.29	0.53	1.18	1.54	0.25	0.56	1.24	2.37	3.48	91.2	0	333
NO	air	0.11	0.22	0.04	3.82	0.00	0.01	0.03	0.46	4.04	97.2	0	8519
NO2	air	1.48	0.98	1.22	1.88	0.03	0.42	1.25	3.31	10.56	97.2	0	8519
NO3-	pm10	0.39	0.28	0.32	2.01	0.01	0.12	0.32	0.94	1.96	92.8	1	339
PM10 mass	pm10	16.93	7.65	15.67	1.46	5.00	9.00	16.00	31.00	78.00	93.6	0	342
PM25 mass	pm25	7.40	4.28	6.55	1.61	2.00	3.00	6.00	15.00	35.00	90.1	0	329
SO2	air	0.16	0.06	0.15	1.37	0.04	0.09	0.14	0.24	1.22	97.5	0	8538
SO4--	pm10	0.59	0.34	0.52	1.70	0.16	0.23	0.50	1.25	1.86	92.8	0	339

ES0011R Barcarrota

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.29	0.14	0.25	1.83	0.03	0.05	0.26	0.58	0.92	99.4	18	363
NH3+NH4+	air+aerosol	0.67	0.26	0.62	1.48	0.17	0.30	0.62	1.12	1.85	99.4	0	363
NO	air	0.06	0.08	0.04	1.80	0.00	0.02	0.04	0.14	1.89	97.2	0	8516
NO2	air	0.84	0.69	0.66	1.99	0.05	0.22	0.67	2.12	10.46	97.2	0	8516
NO3-	pm10	0.19	0.11	0.16	2.08	0.01	0.03	0.17	0.42	0.74	91.7	8	335
PM10 mass	pm10	12.85	7.75	11.05	1.72	3.00	5.00	10.00	26.10	78.00	92.2	0	337
PM25 mass	pm25	7.22	5.50	5.82	1.94	1.00	2.00	6.00	16.00	68.00	88.1	0	322
SO2	air	0.23	0.30	0.17	2.10	0.02	0.06	0.14	0.69	6.80	98.7	0	8646
SO4--	pm10	0.43	0.32	0.35	1.88	0.04	0.15	0.32	1.12	1.89	91.7	0	335

ES0012R Zarra

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.33	0.16	0.30	1.76	0.03	0.16	0.31	0.61	1.37	97.2	11	355
NH3+NH4+	air+aerosol	1.15	0.53	1.01	1.69	0.23	0.37	1.10	2.04	2.86	97.7	0	357
NO	air	0.05	0.09	0.03	2.62	0.00	0.01	0.03	0.18	3.15	98.5	0	8630
NO2	air	0.59	0.49	0.44	2.25	0.01	0.11	0.46	1.52	7.81	98.5	0	8630
NO3-	pm10	0.26	0.15	0.21	2.17	0.01	0.05	0.24	0.57	1.03	97.2	7	355
PM10 mass	pm10	9.37	5.83	7.73	1.91	2.00	2.00	9.00	19.10	49.00	97.7	0	357
PM10 mass	pm10	11.65	8.12	9.63	1.85	0.77	3.63	9.51	26.15	123.27	99.1	0	8685
PM25 mass	pm25	4.82	3.40	3.93	1.93	1.00	1.00	4.00	9.00	34.00	94.7	0	346
SO2	air	0.28	0.17	0.24	1.78	0.02	0.10	0.24	0.61	1.90	98.3	0	8612
SO4--	pm10	0.44	0.28	0.36	1.98	0.04	0.10	0.36	0.95	1.54	97.2	0	355

ES0013R Penausende

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.30	0.14	0.27	1.70	0.03	0.17	0.27	0.60	1.10	97.7	11	357
NH3+NH4+	air+aerosol	0.79	0.42	0.68	1.71	0.09	0.31	0.69	1.59	2.54	98.8	0	361
NO	air	0.05	0.04	0.04	1.72	0.00	0.02	0.04	0.09	1.35	98.1	0	8597
NO2	air	0.71	0.53	0.57	1.88	0.09	0.21	0.56	1.72	6.11	98.1	0	8597
NO3-	pm10	0.16	0.13	0.11	2.66	0.01	0.01	0.14	0.42	0.81	90.9	23	332
PM10 mass	pm10	8.08	5.58	6.66	1.87	1.00	2.00	7.00	20.00	43.00	90.9	0	332
PM10 mass	pm10	8.79	6.87	6.87	2.10	0.00	2.07	6.98	21.70	93.27	98.4	0	8618
PM25 mass	pm25	4.53	4.11	3.39	2.12	1.00	1.00	3.50	12.95	33.00	93.2	0	340
SO2	air	0.21	0.14	0.19	1.50	0.06	0.10	0.18	0.39	3.98	98.8	0	8656
SO4--	pm10	0.32	0.20	0.26	1.87	0.04	0.08	0.28	0.68	1.38	90.9	0	332

ES0014R Els Torms

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.37	0.27	0.30	1.92	0.04	0.10	0.34	0.73	2.82	92.8	0	339
Ca++	pm25	0.10	0.15	0.08	1.93	0.02	0.03	0.07	0.19	1.18	16.4	0	60
Cl-	pm10	0.14	0.19	0.08	2.56	0.04	0.04	0.04	0.61	0.91	16.4	33	60
Cl-	pm25	0.05	0.03	0.05	1.44	0.04	0.04	0.04	0.12	0.16	16.4	46	60
HNO3+NO3-	air+aerosol	0.46	0.24	0.41	1.64	0.04	0.22	0.41	0.98	1.78	98.8	5	361
K+	pm10	0.11	0.13	0.08	1.89	0.02	0.03	0.08	0.22	1.38	92.8	0	339
K+	pm25	0.05	0.05	0.04	2.31	0.01	0.01	0.03	0.18	0.24	16.4	0	60
Mg++	pm10	0.05	0.04	0.04	1.94	0.01	0.01	0.04	0.12	0.30	92.8	3	339
Mg++	pm25	0.01	0.01	0.01	1.45	0.01	0.01	0.01	0.03	0.04	16.4	14	60
NH3+NH4+	air+aerosol	2.59	1.04	2.37	1.54	0.58	1.10	2.44	4.51	5.67	99.1	0	362
NH4+	pm10	0.65	0.55	0.46	2.32	0.10	0.13	0.52	1.95	2.30	16.4	0	60
NH4+	pm25	0.52	0.46	0.35	2.50	0.05	0.10	0.39	1.62	1.96	16.4	0	60
NO	air	0.07	0.15	0.03	3.22	0.00	0.00	0.02	0.24	3.25	96.0	0	8410
NO2	air	1.16	0.83	0.97	1.77	0.20	0.42	0.92	2.82	11.50	96.0	0	8410
NO3-	pm10	0.21	0.21	0.15	2.12	0.01	0.05	0.14	0.66	1.55	92.8	3	339
NO3-	pm25	0.13	0.22	0.06	3.02	0.01	0.02	0.05	0.57	1.33	16.4	2	60
Na+	pm10	0.42	0.37	0.30	2.27	0.02	0.06	0.31	1.10	2.56	92.8	15	339
Na+	pm25	0.11	0.06	0.09	2.05	0.02	0.02	0.10	0.22	0.25	16.4	8	60
PM10 mass	pm10	11.41	6.55	10.13	1.63	2.00	4.00	10.00	21.00	81.00	90.3	0	330
PM25 mass	pm25	6.19	3.42	5.31	1.77	1.00	2.00	5.00	12.00	23.00	85.4	0	312
SO2	air	0.44	0.33	0.37	1.76	0.03	0.16	0.37	0.88	6.72	97.8	0	8564
SO4--	pm10	0.48	0.30	0.39	1.90	0.08	0.14	0.39	1.09	1.74	92.8	0	339
SO4--	pm25	0.35	0.22	0.29	1.92	0.07	0.09	0.34	0.76	1.22	16.4	0	60
SO4-- corr	pm10	0.44	0.29	0.35	1.98	0.07	0.10	0.35	1.02	1.70	92.8	0	339
SO4-- corr	pm25	0.34	0.22	0.28	1.97	0.07	0.08	0.33	0.75	1.21	16.4	0	60

ES0016R O Savifao

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.36	0.19	0.30	2.00	0.04	0.04	0.32	0.72	1.20	99.4	29	363
NH3+NH4+	air+aerosol	1.44	0.64	1.31	1.56	0.32	0.60	1.30	2.73	3.55	98.3	0	359
NO	air	0.16	0.12	0.12	2.38	0.01	0.03	0.16	0.39	1.40	93.4	0	8181
NO2	air	0.72	0.51	0.58	2.01	0.01	0.16	0.66	1.62	5.65	93.4	0	8181
NO3-	pm10	0.16	0.13	0.11	2.78	0.01	0.01	0.15	0.37	0.86	87.0	29	318
PM10 mass	pm10	9.52	5.03	8.37	1.68	2.00	3.00	9.00	18.05	46.00	87.0	0	318
PM10 mass	pm10	9.69	5.40	8.46	1.69	1.16	3.50	8.60	19.24	89.47	95.1	0	8334
PM25 mass	pm25	6.69	4.20	5.49	1.91	1.00	2.00	5.00	15.00	20.00	75.3	0	275
SO2	air	0.17	0.27	0.12	2.04	0.03	0.06	0.10	0.52	6.65	99.2	0	8688
SO4--	pm10	0.43	0.30	0.35	1.89	0.05	0.12	0.34	1.07	2.08	87.0	0	318

ES0017R Doñana

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.54	0.26	0.47	1.74	0.04	0.26	0.47	1.03	1.94	96.1	8	351
NH3+NH4+	air+aerosol	1.49	0.63	1.36	1.53	0.49	0.65	1.37	2.68	3.64	95.3	0	348
NO	air	0.12	0.29	0.05	3.27	0.00	0.01	0.05	0.48	8.59	94.8	0	8308
NO2	air	0.90	0.79	0.63	2.47	0.01	0.13	0.64	2.42	10.43	94.8	0	8308
NO3-	pm10	0.32	0.21	0.25	2.31	0.01	0.05	0.28	0.69	1.59	95.8	10	350
PM10 mass	pm10	14.77	7.81	13.18	1.64	1.00	5.00	14.00	26.00	106.00	95.8	0	350
SO2	air	0.39	0.41	0.29	2.02	0.04	0.11	0.26	1.03	10.50	97.2	0	8519
SO4--	pm10	0.74	0.50	0.60	1.93	0.05	0.20	0.58	1.82	3.19	95.8	0	350

ES1778R Montseny

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm1	0.02	0.06	0.01	2.62	0.01	0.01	0.01	0.06	0.47	18.9	39	69
Ca++	pm10	0.21	0.17	0.14	2.85	0.01	0.02	0.17	0.58	0.79	24.7	3	90
Ca++	pm25	0.07	0.04	0.05	2.17	0.01	0.01	0.06	0.14	0.25	22.5	4	82
Cl-	pm1	0.06	0.07	0.03	3.81	0.01	0.01	0.04	0.23	0.32	18.9	20	69
Cl-	pm10	0.16	0.18	0.07	4.44	0.01	0.01	0.11	0.62	0.89	24.7	16	90
Cl-	pm25	0.11	0.10	0.06	4.06	0.01	0.01	0.08	0.38	0.42	22.5	17	82
EC	pm1	0.18	0.10	0.15	1.87	0.03	0.05	0.17	0.35	0.48	24.9	0	91
EC	pm10	0.22	0.12	0.18	1.83	0.05	0.06	0.20	0.41	0.57	30.7	0	112
EC	pm25	0.20	0.10	0.17	1.82	0.04	0.05	0.19	0.38	0.55	28.5	0	104
K+	pm1	0.03	0.02	0.02	2.10	0.01	0.01	0.02	0.08	0.11	18.9	23	69
K+	pm10	0.09	0.05	0.08	1.88	0.01	0.03	0.09	0.23	0.26	24.7	2	90
K+	pm25	0.04	0.03	0.04	2.07	0.01	0.01	0.04	0.10	0.12	22.5	14	82
Mg++	pm1	0.01	0.01	0.01	1.47	0.01	0.01	0.01	0.01	0.08	18.9	65	69
Mg++	pm10	0.06	0.05	0.04	2.50	0.01	0.01	0.05	0.17	0.34	24.7	6	90
Mg++	pm25	0.02	0.01	0.02	1.88	0.01	0.01	0.02	0.06	0.07	22.5	6	82
NH4+	pm1	0.28	0.22	0.19	2.54	0.02	0.04	0.21	0.73	0.77	18.9	0	69
NH4+	pm10	0.33	0.25	0.24	2.36	0.02	0.06	0.24	0.83	1.20	24.7	0	90
NH4+	pm25	0.35	0.26	0.25	2.45	0.02	0.05	0.30	0.83	1.26	22.5	0	82
NO3-	pm1	0.07	0.11	0.03	3.70	0.01	0.01	0.03	0.38	0.54	18.9	18	69
NO3-	pm10	0.20	0.18	0.14	2.25	0.01	0.04	0.14	0.52	1.08	24.7	0	90
NO3-	pm25	0.11	0.16	0.05	3.76	0.01	0.01	0.07	0.47	0.99	22.5	13	82
Na+	pm1	0.02	0.04	0.01	2.45	0.01	0.01	0.01	0.07	0.28	18.9	23	69
Na+	pm10	0.26	0.28	0.16	2.98	0.01	0.03	0.17	0.73	1.85	24.7	2	90
Na+	pm25	0.06	0.06	0.04	2.64	0.01	0.01	0.04	0.17	0.38	22.5	8	82
OC	pm1	1.12	0.59	0.97	1.70	0.28	0.40	1.05	2.36	3.15	24.9	0	91
OC	pm10	1.59	0.79	1.41	1.67	0.48	0.58	1.47	3.22	3.60	30.7	0	112
OC	pm25	1.35	0.79	1.14	1.82	0.30	0.41	1.22	3.20	3.49	28.5	0	104
PM1 mass	pm1	9.18	4.44	8.08	1.72	1.40	3.03	8.49	18.64	21.79	25.5	0	93
PM10 mass	pm10	14.18	6.30	12.83	1.60	2.58	6.07	13.14	26.89	36.92	30.7	0	112
PM25 mass	pm25	11.16	4.21	10.39	1.48	2.51	5.83	10.61	19.81	23.08	28.5	0	104
SO4--	pm1	0.32	0.23	0.22	2.57	0.01	0.04	0.25	0.71	0.79	18.9	0	69
SO4--	pm10	0.45	0.33	0.33	2.34	0.04	0.08	0.37	1.09	1.54	24.7	0	90
SO4--	pm25	0.40	0.29	0.28	2.61	0.01	0.07	0.34	0.93	1.18	22.5	1	82
SO4-- corr	pm1	0.32	0.23	0.22	2.57	0.01	0.04	0.25	0.71	0.79	18.9	0	69
SO4-- corr	pm10	0.42	0.32	0.31	2.37	0.04	0.07	0.35	1.03	1.39	24.7	0	90
SO4-- corr	pm25	0.39	0.29	0.29	2.37	0.00	0.06	0.33	0.92	1.15	22.5	1	82
TC	pm1	1.30	0.67	1.13	1.70	0.31	0.47	1.25	2.69	3.45	24.9	0	91
TC	pm10	1.81	0.89	1.60	1.67	0.53	0.67	1.68	3.62	4.01	30.7	0	112
TC	pm25	1.54	0.87	1.31	1.81	0.37	0.47	1.41	3.55	3.86	28.5	0	104

FI0009R Utö

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.06	0.06	0.04	2.34	0.00	0.01	0.04	0.21	0.42	96.4	0	353
Cl-	aerosol	0.49	0.65	0.13	8.22	0.00	0.00	0.23	1.89	3.70	96.4	0	353
HNO3	air	0.14	0.14	0.08	3.11	0.00	0.01	0.08	0.42	0.82	96.4	0	353
HNO3+NO3-	air+aerosol	0.32	0.25	0.23	2.28	0.02	0.04	0.25	0.86	1.60	96.4	0	353
K+	aerosol	0.04	0.03	0.03	2.39	0.00	0.01	0.04	0.10	0.23	96.4	0	353
Mg++	aerosol	0.07	0.06	0.04	2.62	0.00	0.01	0.05	0.19	0.28	96.4	0	353
NH3	air	0.07	0.07	0.04	3.41	0.00	0.00	0.05	0.22	0.31	96.4	0	353
NH3+NH4+	air+aerosol	0.33	0.31	0.23	2.34	0.02	0.06	0.23	1.07	2.08	96.4	0	353
NH4+	aerosol	0.26	0.28	0.17	2.76	0.00	0.04	0.16	0.89	1.78	96.4	0	353
NO3-	aerosol	0.18	0.20	0.11	2.85	0.00	0.02	0.11	0.58	1.55	96.4	0	353
Na+	aerosol	0.53	0.49	0.33	2.98	0.00	0.05	0.36	1.59	2.53	96.4	0	353
SO2	air	0.23	0.19	0.18	2.20	0.01	0.05	0.18	0.61	1.36	96.4	0	353
SO4--	aerosol	0.38	0.29	0.29	2.17	0.02	0.09	0.30	0.97	2.32	96.4	0	353

FI0017R Virolahti II

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.08	0.10	0.05	2.99	0.00	0.01	0.04	0.29	0.75	100.0	0	366
Cl-	aerosol	0.10	0.17	0.03	6.02	0.00	0.00	0.03	0.50	1.07	100.0	0	366
HNO3	air	0.11	0.09	0.07	2.66	0.00	0.01	0.08	0.28	0.60	100.0	0	366
HNO3+NO3-	air+aerosol	0.21	0.16	0.16	2.23	0.01	0.03	0.18	0.53	1.08	100.0	0	366
K+	aerosol	0.05	0.03	0.04	1.90	0.00	0.01	0.04	0.10	0.23	100.0	0	366
Mg++	aerosol	0.03	0.03	0.02	2.57	0.00	0.00	0.02	0.09	0.14	100.0	0	366
NH3	air	0.12	0.14	0.05	4.39	0.00	0.00	0.07	0.41	0.86	100.0	0	366
NH3+NH4+	air+aerosol	0.36	0.29	0.26	2.30	0.01	0.07	0.28	0.89	1.70	100.0	0	366
NH4+	aerosol	0.24	0.22	0.16	2.58	0.00	0.03	0.17	0.67	1.67	100.0	0	366
NO3-	aerosol	0.11	0.12	0.06	2.83	0.00	0.01	0.06	0.34	1.00	100.0	0	366
Na+	aerosol	0.19	0.21	0.12	2.90	0.00	0.02	0.13	0.62	1.22	100.0	0	366
SO2	air	0.34	0.36	0.21	2.85	0.01	0.03	0.23	1.08	2.73	100.0	0	366
SO4--	aerosol	0.36	0.28	0.27	2.24	0.01	0.07	0.30	0.93	1.80	100.0	0	366

FI0022R Oulanka

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.02	0.02	0.01	2.26	0.00	0.00	0.01	0.08	0.09	71.4	0	39
Cl-	aerosol	0.07	0.10	0.01	7.88	0.00	0.00	0.02	0.28	0.37	71.4	0	39
HNO3	air	0.03	0.02	0.03	2.00	0.01	0.01	0.03	0.07	0.11	69.5	0	38
HNO3+NO3-	air+aerosol	0.05	0.02	0.04	1.61	0.01	0.01	0.05	0.09	0.11	69.5	0	38
K+	aerosol	0.02	0.01	0.02	1.79	0.00	0.00	0.02	0.04	0.06	71.4	0	39
Mg++	aerosol	0.02	0.01	0.01	2.02	0.00	0.00	0.02	0.04	0.06	71.4	0	39
NH3	air	0.02	0.03	0.01	3.82	0.00	0.00	0.01	0.11	0.14	71.4	0	39
NH3+N4+	air+aerosol	0.10	0.06	0.08	1.94	0.02	0.02	0.08	0.20	0.22	71.4	0	39
NH4+	aerosol	0.08	0.05	0.07	1.82	0.02	0.02	0.07	0.19	0.21	71.4	0	39
NO3-	aerosol	0.01	0.01	0.01	2.86	0.00	0.00	0.01	0.03	0.05	71.4	0	39
Na+	aerosol	0.14	0.10	0.11	2.06	0.02	0.03	0.12	0.33	0.45	71.4	0	39
SO2	air	0.23	0.27	0.13	2.93	0.01	0.02	0.10	1.04	1.05	69.5	0	38
SO4--	aerosol	0.22	0.13	0.19	1.83	0.05	0.07	0.20	0.53	0.56	71.4	0	39

FI0036R Pallas (Matorova)

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.01	0.02	0.01	3.22	0.00	0.00	0.01	0.05	0.14	94.3	0	348
Cl-	aerosol	0.18	0.32	0.03	8.34	0.00	0.00	0.04	0.82	2.98	94.3	0	348
HNO3	air	0.02	0.02	0.01	2.91	0.00	0.00	0.01	0.06	0.23	94.6	0	349
HNO3+NO3-	air+aerosol	0.04	0.03	0.03	2.06	0.00	0.01	0.03	0.10	0.37	94.3	0	348
K+	aerosol	0.02	0.01	0.01	2.74	0.00	0.00	0.01	0.04	0.15	94.3	0	348
Mg++	aerosol	0.02	0.02	0.01	3.16	0.00	0.00	0.01	0.06	0.23	94.3	0	348
NH3	air	0.05	0.54	0.01	3.24	0.00	0.00	0.01	0.07	10.00	94.6	0	349
NH3+N4+	air+aerosol	0.10	0.09	0.06	2.56	0.01	0.01	0.06	0.30	0.78	94.0	0	347
NH4+	aerosol	0.08	0.07	0.05	2.79	0.00	0.01	0.05	0.22	0.48	94.3	0	348
NO3-	aerosol	0.02	0.02	0.01	2.54	0.00	0.00	0.02	0.06	0.14	94.3	0	348
Na+	aerosol	0.17	0.22	0.08	3.81	0.00	0.01	0.09	0.57	2.16	94.3	0	348
SO2	air	0.09	0.17	0.03	3.74	0.01	0.01	0.03	0.43	1.35	94.6	0	349
SO4--	aerosol	0.18	0.17	0.12	2.69	0.01	0.02	0.12	0.57	1.16	94.3	0	348

FI0037R Ähtäri II

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.03	0.02	0.02	1.99	0.01	0.01	0.02	0.08	0.10	98.2	0	52
Cl-	aerosol	0.06	0.10	0.01	7.90	0.00	0.00	0.01	0.34	0.47	98.2	0	52
HNO3	air	0.06	0.04	0.05	1.99	0.01	0.01	0.06	0.14	0.19	96.2	0	51
HNO3+NO3-	air+aerosol	0.10	0.06	0.09	1.70	0.02	0.03	0.09	0.20	0.40	96.2	0	51
K+	aerosol	0.04	0.01	0.03	1.45	0.01	0.02	0.03	0.06	0.11	98.2	0	52
Mg++	aerosol	0.02	0.01	0.02	1.72	0.00	0.01	0.02	0.04	0.05	98.2	0	52
NH3	air	0.08	0.07	0.04	3.65	0.00	0.00	0.04	0.27	0.28	98.2	0	52
NH3+N4+	air+aerosol	0.20	0.11	0.18	1.74	0.05	0.07	0.19	0.39	0.59	98.2	0	52
NH4+	aerosol	0.13	0.08	0.10	2.05	0.02	0.02	0.12	0.30	0.32	98.2	0	52
NO3-	aerosol	0.04	0.04	0.02	3.38	0.00	0.00	0.02	0.11	0.26	98.2	0	52
Na+	aerosol	0.14	0.09	0.11	2.18	0.01	0.02	0.12	0.33	0.40	98.2	0	52
SO2	air	0.11	0.10	0.08	2.06	0.03	0.03	0.07	0.38	0.46	96.2	0	51
SO4--	aerosol	0.25	0.13	0.22	1.79	0.05	0.07	0.25	0.47	0.53	98.2	0	52

FI0050R Hyttiälä

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.04	0.08	0.03	2.89	-0.03	-0.01	0.02	0.18	1.06	18.7	0	1638

FR0009R Revin

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.88	0.92	0.60	2.42	0.06	0.14	0.61	2.46	6.34	22.2	0	81
NH3+N4+	air+aerosol	1.36	1.09	0.91	3.18	0.01	0.05	1.12	3.72	6.51	23.3	1	85
PM10 mass	pm10	17.81	9.88	15.49	1.72	0.00	6.00	16.00	37.00	73.00	86.3	0	7561
PM25 mass	pm25	12.91	9.87	10.16	2.04	0.00	3.00	10.00	33.00	86.00	90.8	0	7952
SO2	air	0.15	0.20	0.07	4.27	0.01	0.01	0.07	0.74	0.95	23.0	13	84
SO4--	aerosol	0.58	0.48	0.44	2.26	0.01	0.15	0.45	1.47	2.87	24.1	1	88

FR0010R Morvan

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	12.90	11.72	9.24	2.42	0.00	1.00	10.00	37.00	117.00	86.0	0	7530

FR0013R Peyrusse Vieille

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.73	1.01	0.38	3.56	0.01	0.04	0.41	2.78	5.79	26.3	3	96
NH3+NH4+	air+aerosol	1.58	1.39	0.96	3.53	0.01	0.14	1.19	4.31	7.35	27.1	2	99
PM10 mass	pm10	14.97	8.55	12.92	1.74	0.00	5.00	13.00	32.00	65.00	93.4	0	8183
SO2	air	0.09	0.12	0.05	3.44	0.01	0.01	0.05	0.34	0.61	27.4	12	100
SO4--	aerosol	0.51	0.37	0.37	2.63	0.01	0.07	0.44	1.25	1.72	28.5	2	104

FR0014R Montandon

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	16.42	9.95	14.01	1.76	0.00	6.00	14.00	35.00	86.00	99.4	0	8709

FR0015R La Tardière

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.93	1.13	0.49	3.61	0.01	0.05	0.52	3.79	5.33	26.6	2	97
NH3+NH4+	air+aerosol	3.20	2.33	2.50	2.12	0.18	0.59	2.75	8.35	14.22	27.1	0	99
PM10 mass	pm10	15.88	10.16	13.26	1.84	1.00	5.00	13.00	37.00	73.00	98.7	0	8644
PM25 mass	pm25	11.29	10.38	8.06	2.27	1.00	2.00	8.00	34.00	72.00	88.3	0	7738
SO2	air	0.06	0.06	0.04	2.91	0.01	0.01	0.04	0.18	0.40	28.2	15	103
SO4--	aerosol	0.54	0.43	0.43	2.02	0.03	0.15	0.41	1.51	2.87	27.9	0	102

FR0019R Pic du Midi

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	122.41	34.54	118.41	1.29	55.10	78.29	117.38	176.79	494.08	68.2	0	5972

FR0030R Puy de Dôme

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	170.09	48.24	164.63	1.28	99.34	115.89	157.74	261.32	427.44	36.4	0	3185
EC	pm25	0.05	0.12	0.13	2.59	0.00	0.00	0.00	0.28	0.83	13.1	0	154
OC	pm25	1.95	1.23	1.60	1.80	0.46	0.61	1.54	4.74	6.33	12.9	0	152
SO2	air	0.27	0.20	0.22	1.81	0.00	0.09	0.21	0.64	3.76	84.6	0	7413
TC	pm25	2.02	1.32	1.64	1.82	0.47	0.62	1.56	5.08	7.17	12.9	0	152

GB0002R Eskdalemuir

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.27	0.19	0.25	1.54	-0.02	0.13	0.25	0.47	7.76	96.9	0	8488
NO2	air	0.76	0.93	0.50	2.54	-0.16	0.10	0.48	2.44	12.44	96.9	0	8485

GB0006R Lough Navar

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	11.32	7.96	9.15	2.13	-4.50	1.80	10.00	25.20	87.10	79.1	0	6931

GB0013R Yarner Wood

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.23	0.29	0.17	2.09	-0.10	0.06	0.16	0.66	4.54	85.4	0	7477
NO2	air	1.59	1.58	1.08	2.59	-0.24	0.18	1.13	4.56	13.24	85.3	0	7470

GB0014R High Muffles

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.50	0.61	0.41	1.68	0.00	0.20	0.40	1.05	20.20	96.4	0	8445
NO2	air	1.64	1.93	0.96	2.93	-0.11	0.17	0.89	5.64	15.86	96.4	0	8445

GB0031R Aston Hill

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.32	0.56	0.21	2.19	-0.09	0.07	0.20	0.91	11.97	96.7	0	8475
NO2	air	1.48	2.00	0.79	3.21	-0.16	0.10	0.75	5.26	19.06	96.7	0	8474

GB0033R Bush

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.49	0.82	0.33	2.15	0.00	0.12	0.31	1.37	16.10	98.8	0	8654
NO2	air	1.96	2.32	1.11	3.19	-0.28	0.13	1.15	6.49	23.27	98.8	0	8654

GB0036R Harwell

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.38	0.59	0.22	3.04	0.00	0.02	0.24	1.10	26.19	93.3	500	8172
Ca++	pm25	0.22	0.31	0.11	3.55	0.00	0.01	0.12	0.79	4.75	94.7	1017	8297
Cl-	pm10	1.17	1.69	0.37	6.20	0.00	0.01	0.60	4.45	33.30	94.5	1774	8282
Cl-	pm25	0.60	1.11	0.19	5.30	0.00	0.01	0.22	2.40	35.72	95.5	2789	8368
HNO3	air	0.06	0.20	0.04	2.37	0.00	0.00	0.04	0.13	15.57	94.3	409	8260
K+	pm10	0.08	0.15	0.04	2.87	0.00	0.01	0.03	0.25	5.11	93.3	4814	8176
K+	pm25	0.07	0.19	0.03	2.66	0.00	0.01	0.03	0.22	6.28	94.7	6051	8297
Mg++	pm10	0.24	0.33	0.12	3.33	0.00	0.01	0.13	0.76	5.13	93.3	526	8172
Mg++	pm25	0.14	0.21	0.07	3.44	0.00	0.01	0.08	0.47	2.00	94.7	1293	8297
NH3	air	1.63	1.50	1.20	2.20	0.02	0.33	1.19	4.20	23.20	94.3	7	8259
NH4+	pm10	1.23	1.54	0.52	5.19	0.01	0.01	0.69	4.41	33.25	87.6	601	7673
NH4+	pm25	1.24	1.90	0.56	4.26	0.01	0.03	0.65	4.43	54.81	94.7	415	8297
NO	air	1.01	3.25	0.32	3.71	0.00	0.00	0.20	4.90	76.60	30.7	0	2689
NO2	air	4.70	4.12	3.35	2.46	0.00	0.60	3.70	12.14	32.80	30.5	0	2670
NO3-	pm10	0.84	1.16	0.42	3.52	0.00	0.05	0.43	3.01	45.63	94.5	104	8280
NO3-	pm25	0.75	1.02	0.36	3.60	0.00	0.05	0.34	2.85	8.45	95.5	148	8368
Na+	pm10	1.13	5.32	0.42	3.97	0.01	0.03	0.52	2.92	237.01	93.3	714	8172
Na+	pm25	0.60	1.58	0.26	3.52	0.01	0.02	0.29	1.79	53.20	94.7	1124	8297
PM10 mass	pm10	13.26	8.24	11.33	1.74	2.08	4.92	11.21	30.79	54.62	94.8	0	346
PM10 mass	pm10	16.47	11.59	13.11	2.14	-4.00	3.00	14.00	40.00	75.00	52.7	227	4620
PM25 mass	pm25	8.98	7.68	6.85	2.02	1.46	2.53	6.04	25.94	45.37	91.2	0	333
PM25 mass	pm25	12.66	11.81	8.74	2.66	-4.00	1.00	9.00	38.00	72.00	57.3	860	5022
SO2	air	0.26	1.53	0.11	2.47	0.00	0.04	0.09	0.51	61.20	95.0	201	8318
SO4--	pm10	0.72	1.02	0.53	2.23	0.00	0.14	0.53	1.84	68.43	94.5	77	8278
SO4--	pm25	0.71	1.03	0.49	2.40	0.00	0.13	0.49	1.91	33.42	95.5	72	8368
SO4-- corr	pm10	0.65	1.02	0.45	2.43	-0.37	0.09	0.46	1.80	68.14	94.5	77	8278
SO4-- corr	pm25	0.67	1.02	0.45	2.51	-0.25	0.09	0.46	1.86	33.12	95.5	72	8368

GB0037R Ladybower Res.

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.43	1.46	0.96	2.54	0.00	0.19	1.04	3.79	43.94	99.0	0	8670
NO2	air	4.92	2.99	4.17	1.80	0.49	1.50	4.27	10.45	23.09	99.0	0	8670
SO2	air	2.23	1.83	1.72	2.12	-0.69	0.47	2.00	4.89	31.39	84.0	0	7360

GB0038R Lullington Heath

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.54	1.12	0.35	2.11	-0.04	0.13	0.33	1.39	25.74	93.1	0	8153
NO2	air	2.61	2.49	1.77	2.64	-0.37	0.25	1.90	7.40	23.12	93.1	0	8153
SO2	air	0.54	0.45	0.43	2.15	-0.42	0.08	0.45	1.34	5.71	96.2	0	8427

GB0043R Narberth

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.57	1.54	0.36	2.05	-0.11	0.15	0.32	1.52	53.25	97.6	0	8546
NO2	air	1.56	2.02	0.96	2.56	0.02	0.24	0.85	5.66	36.51	97.6	0	8546
PM10 mass	pm10	15.65	13.42	12.09	2.11	-2.10	3.30	12.30	38.68	261.80	83.4	0	7303
SO2	air	0.70	0.61	0.56	2.09	-0.79	0.09	0.57	1.75	8.75	95.9	0	8404

GB0045R Wicken Fen

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.37	2.24	0.88	2.25	-0.09	0.31	0.79	4.03	39.32	98.9	0	8652
NO2	air	2.79	2.86	1.86	2.66	-0.56	0.31	1.97	8.57	31.59	98.8	0	8659
SO2	air	0.69	0.31	0.61	1.69	0.04	0.23	0.65	1.23	1.90	3.8	0	336

GB0048R Auchencorth Moss

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.06	0.05	0.05	2.22	0.00	0.00	0.05	0.17	0.70	82.4	483	7215
Ca++	pm25	0.05	0.04	0.04	2.06	0.00	0.00	0.04	0.12	1.23	82.8	391	7257
Cl-	pm10	1.15	1.35	0.61	3.32	0.00	0.08	0.68	3.91	11.46	83.2	1	7284
Cl-	pm25	0.66	0.80	0.37	3.05	0.01	0.06	0.38	2.17	7.96	85.3	1	7472
HNO3	air	0.02	0.02	0.02	1.87	0.00	0.01	0.02	0.05	0.25	83.4	28	7307
K+	pm10	0.07	0.05	0.06	1.98	0.00	0.01	0.06	0.15	1.01	85.9	101	7523
K+	pm25	0.05	0.03	0.04	1.94	0.00	0.01	0.04	0.10	0.89	81.0	72	7094
Mg++	pm10	0.08	0.09	0.05	2.58	0.00	0.01	0.05	0.25	0.74	85.9	190	7523
Mg++	pm25	0.05	0.05	0.03	2.33	0.00	0.01	0.03	0.13	0.46	82.8	130	7257
NH3	air	0.98	1.04	0.70	2.16	0.01	0.24	0.66	2.81	16.43	84.2	9	7374
NH4+	pm10	0.58	0.78	0.30	3.12	0.00	0.05	0.27	2.12	8.07	82.9	32	7262
NH4+	pm25	0.51	0.73	0.26	3.22	0.00	0.04	0.24	1.81	9.45	80.5	5	7051
NO	air	0.08	0.12	0.14	1.59	0.00	0.00	0.10	0.20	1.70	36.2	3498	7615
NO2	air	1.44	1.09	0.76	4.06	0.10	0.10	1.70	2.80	8.80	29.4	1907	6188
NO3-	pm10	0.29	0.44	0.13	3.62	0.00	0.02	0.12	1.22	5.56	83.1	7	7279
NO3-	pm25	0.24	0.42	0.11	3.58	0.00	0.01	0.10	1.02	6.61	83.5	2	7315
Na+	pm10	0.73	0.74	0.45	2.85	0.01	0.07	0.49	2.17	14.95	78.9	0	6913
Na+	pm25	0.45	0.45	0.28	2.79	0.01	0.05	0.30	1.28	4.07	80.2	0	7026
PM10 mass	pm10	6.53	3.95	5.57	1.75	1.00	2.00	6.00	14.35	24.00	63.6	7	232
PM10 mass	pm10	7.94	6.88	6.41	2.15	-4.00	0.00	7.00	20.00	68.00	59.0	1920	5165
PM25 mass	pm25	4.23	4.21	3.31	2.01	-1.00	1.00	3.00	11.00	40.00	98.4	93	359
PM25 mass	pm25	4.42	5.64	3.75	2.27	-4.00	-1.00	3.00	14.00	61.00	61.6	3814	5395
SO2	air	0.07	0.17	0.04	2.34	0.01	0.01	0.04	0.20	6.58	83.4	1	7307
SO4--	pm10	0.39	0.40	0.27	2.33	0.02	0.07	0.26	1.16	5.72	83.1	0	7279
SO4--	pm25	0.35	0.39	0.23	2.42	0.01	0.06	0.21	1.12	5.15	83.5	0	7315
SO4-- corr	pm10	0.33	0.41	0.19	2.90	-0.10	0.03	0.18	1.10	5.69	83.1	0	7279
SO4-- corr	pm25	0.32	0.40	0.18	2.89	0.00	0.03	0.17	1.10	5.13	83.5	0	7315

GB0050R St. Osyth

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	2.04	3.19	0.89	3.84	-0.22	0.08	0.85	8.29	40.60	97.2	0	8516
NO2	air	4.19	3.34	3.14	2.28	-0.33	0.75	3.29	10.71	26.76	97.2	0	8513

GB0051R Market Harborough

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.62	2.03	0.30	2.82	-0.12	0.07	0.26	1.87	51.53	69.3	0	6074
NO2	air	3.99	3.36	2.92	2.29	-0.02	0.69	3.12	10.06	26.24	69.3	0	6074

GB0053R Charlton Mackrell

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.64	0.97	0.48	1.90	-0.05	0.21	0.42	1.59	26.37	96.7	0	8471
NO2	air	2.63	2.32	1.88	2.34	0.01	0.44	1.95	7.21	19.00	96.7	0	8468

GE0001R Abastumani

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.44	0.31	0.37	1.91	0.02	0.17	0.35	1.28	1.75	20.0	0	72
HNO3+NO3-	air+aerosol	0.14	0.11	0.11	2.00	0.02	0.03	0.11	0.40	0.65	20.0	0	72
NH3	air	0.57	0.39	0.45	2.11	-0.02	0.11	0.45	1.32	1.46	20.0	0	72
NH3+NH4+	air+aerosol	1.07	0.38	1.01	1.43	0.48	0.56	0.97	1.83	2.02	20.0	0	72
NH4+	aerosol	1.25	0.71	1.11	1.63	0.44	0.58	0.96	2.80	3.78	20.0	0	72
NO3-	aerosol	0.85	0.90	0.56	2.52	0.08	0.11	0.55	2.49	6.10	20.0	0	72
SO2	air	0.32	0.37	0.19	3.31	-0.02	-0.00	0.20	0.93	2.27	20.0	0	72
SO4--	aerosol	0.89	1.00	0.49	3.38	0.01	0.04	0.51	3.20	5.40	20.0	0	72
SO4-- corr	aerosol	0.86	1.00	0.46	3.48	0.01	0.04	0.51	3.20	5.34	20.0	0	72

GR0001R Aliartos

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	2.00	1.35	1.85	1.40	0.50	1.40	1.90	3.30	28.50	99.5	0	8716
NO2	air	2.94	2.11	2.39	1.90	0.30	0.90	2.40	7.00	22.60	99.5	0	8717
SO2	air	1.42	2.30	1.19	1.51	1.00	1.00	1.00	2.50	59.10	99.5	0	8718

GR0002R Finokalia

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm10	0.34	0.30	0.27	1.94	0.01	0.09	0.28	0.84	2.89	86.4	0	325
OC	pm10	1.79	1.05	1.55	1.69	0.36	0.67	1.56	3.25	8.08	86.4	0	325

HU0002R K-pusztá

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm10	-	-	-	-	-	-	-	-	-	0.0	0	0
HNO3	air	0.24	0.14	0.19	2.04	0.01	0.06	0.22	0.51	0.75	98.1	1	359
NH3	air	1.36	0.84	1.02	2.52	0.02	0.17	1.29	2.71	5.63	98.4	5	360
NH4+	aerosol	0.82	0.96	0.42	3.87	0.01	0.01	0.45	2.85	5.57	97.8	17	358
NO2	air	1.40	0.83	1.17	1.92	0.02	0.41	1.25	3.11	4.91	98.0	0	358
NO3-	aerosol	0.37	0.36	0.25	2.42	0.01	0.07	0.23	1.14	2.13	98.4	1	360
OC	pm10	-	-	-	-	-	-	-	-	-	0.0	0	0
PM10 mass	pm10	20.34	14.16	16.29	1.98	0.03	5.24	16.16	48.66	99.87	88.9	0	7786
PM25 mass	pm25	16.97	9.21	14.87	1.68	2.28	6.91	14.38	35.26	61.70	64.9	0	237
SO2	air	0.84	1.00	0.51	2.82	0.01	0.10	0.50	2.73	7.31	98.1	2	359
SO4--	aerosol	1.03	0.69	0.83	2.00	0.01	0.28	0.84	2.46	4.24	98.4	0	360
TC	pm10	5.66	2.85	4.97	1.71	1.63	1.69	5.50	11.56	12.65	10.3	0	38

IE0001R Valentia Observatory

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.14	0.11	0.10	2.20	0.03	0.03	0.11	0.31	0.86	97.5	56	357
Cl-	aerosol	3.04	3.63	1.59	3.64	0.03	0.17	1.92	9.38	31.77	97.8	3	358
HNO3+NO3-	air+aerosol	0.39	0.39	0.26	2.44	0.03	0.06	0.26	1.15	3.32	97.1	0	355
K+	aerosol	0.09	0.09	0.07	2.20	0.03	0.03	0.07	0.24	0.90	97.8	113	358
Mg++	aerosol	0.23	0.23	0.15	2.75	0.03	0.03	0.17	0.62	1.98	97.8	54	358
NH3+NH4+	air+aerosol	0.91	0.69	0.73	1.95	0.06	0.29	0.70	2.30	5.34	97.3	0	356
NO2	air	1.04	1.03	0.67	2.65	0.05	0.10	0.60	3.50	6.10	95.3	6	349
Na+	aerosol	1.81	1.87	1.09	3.24	0.03	0.11	1.35	4.70	17.17	97.8	11	358
SO2	air	0.19	0.24	0.12	2.57	0.01	0.02	0.11	0.58	2.15	97.7	6	357
SO4--	aerosol	0.43	0.40	0.30	2.54	0.01	0.07	0.31	1.29	2.84	97.7	8	357
SO4-- corr	aerosol	0.28	0.38	0.14	3.50	-0.17	0.01	0.11	1.14	2.49	97.7	8	357

IE0005R Oak Park

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.11	0.11	0.08	2.14	0.01	0.02	0.08	0.26	1.28	93.2	6	340
Cl-	aerosol	1.76	1.48	1.20	2.65	0.04	0.25	1.41	4.31	11.37	93.4	0	341
K+	aerosol	0.08	0.05	0.07	1.72	0.01	0.03	0.07	0.16	0.31	93.4	4	341
Mg++	aerosol	0.19	0.44	0.10	2.68	0.01	0.03	0.10	0.42	4.45	93.4	12	341
NH4+	aerosol	0.69	0.74	0.48	2.18	0.06	0.18	0.39	2.32	4.76	93.4	0	341
NO3-	aerosol	0.39	0.56	0.20	3.08	0.01	0.04	0.16	1.49	4.56	93.4	0	341
Na+	aerosol	1.09	1.26	0.69	2.75	0.03	0.11	0.79	2.74	10.92	93.4	2	341
SO4--	aerosol	0.43	0.34	0.34	2.00	0.01	0.14	0.31	1.14	2.20	93.4	1	341
SO4-- corr	aerosol	0.34	0.37	0.23	2.68	-0.57	0.04	0.22	1.06	2.09	93.4	1	341

IE0006R Malin Head

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.10	0.09	0.08	2.07	0.01	0.02	0.08	0.23	1.03	90.7	17	331
Cl-	aerosol	3.69	2.70	2.80	2.20	0.25	0.72	3.09	8.76	18.77	91.5	0	334
K+	aerosol	0.09	0.05	0.08	1.79	0.02	0.03	0.08	0.19	0.38	91.5	3	334
Mg++	aerosol	0.23	0.18	0.16	2.37	0.01	0.03	0.18	0.58	1.22	91.5	3	334
NH4+	aerosol	0.51	0.77	0.33	2.20	0.08	0.14	0.25	1.89	6.52	90.7	0	331
NO3-	aerosol	0.25	0.48	0.09	3.97	0.01	0.02	0.07	1.07	3.68	91.5	0	334
Na+	aerosol	1.92	1.40	1.43	2.36	0.03	0.28	1.59	4.55	9.07	91.5	1	334
SO4--	aerosol	0.42	0.29	0.36	1.79	0.01	0.15	0.34	0.98	2.23	91.5	1	334
SO4-- corr	aerosol	0.26	0.31	0.16	2.88	-0.09	0.02	0.15	0.92	2.10	91.5	1	334

IE0008R Carnsore Point

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.15	0.12	0.12	2.23	0.01	0.03	0.12	0.41	0.66	91.8	7	335
Cl-	aerosol	5.67	5.15	3.65	2.92	0.03	0.70	3.82	17.62	25.19	91.8	4	335
K+	aerosol	0.15	0.11	0.12	2.06	0.02	0.04	0.11	0.40	0.56	91.8	4	335
Mg++	aerosol	0.37	0.35	0.24	2.75	0.01	0.04	0.25	1.18	1.71	91.8	5	335
NH4+	aerosol	0.60	0.81	0.37	2.47	0.02	0.13	0.33	2.13	6.03	90.7	5	331
NO3-	aerosol	0.42	0.72	0.18	3.61	0.01	0.03	0.16	1.48	6.93	91.5	4	334
Na+	aerosol	3.00	2.68	1.97	2.81	0.03	0.39	2.07	9.26	13.81	91.8	4	335
SO4--	aerosol	0.56	0.32	0.46	2.10	0.01	0.18	0.49	1.15	1.91	91.8	5	335
SO4-- corr	aerosol	0.31	0.30	0.21	2.54	-0.15	0.03	0.20	0.99	1.86	91.8	5	335

IS0091R Storhofdi

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	10.90	-	-	-	10.90	10.90	10.90	10.90	10.90	0.1	0	1
NO3-	aerosol	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	0.1	0	1
SO4--	aerosol	0.49	-	-	-	0.49	0.49	0.49	0.49	0.49	0.1	0	1
SO4-- corr	aerosol	-0.36	-	-	-	-0.36	-0.36	-0.36	-0.36	-0.36	0.1	0	1

IT0001R Montelibretti

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3	air	0.13	0.10	0.10	2.02	0.03	0.04	0.09	0.39	0.46	14.2	0	52
NH3	air	1.53	0.65	1.40	1.55	0.49	0.62	1.45	2.93	3.22	14.2	0	52
NH4+	aerosol	1.01	0.56	0.85	1.84	0.20	0.28	0.86	2.12	2.36	14.2	0	52
NO2	air	3.47	1.84	3.01	1.72	0.76	1.19	3.08	7.10	9.73	92.9	0	339
NO3-	aerosol	0.40	0.33	0.30	2.21	0.07	0.08	0.29	1.08	1.69	14.2	0	52
NO3-	pm10_pm25	0.14	0.10	0.10	2.28	0.02	0.03	0.12	0.32	0.34	14.2	0	52
NO3-	pm25	0.26	0.32	0.15	2.90	0.03	0.04	0.10	0.95	1.41	14.2	0	52
PM10 mass	pm10	25.02	13.14	21.99	1.69	3.20	8.85	22.20	51.94	77.70	100.0	0	365
SO2	air	0.19	0.15	0.14	2.05	0.05	0.05	0.15	0.49	0.90	14.2	0	52
SO4--	aerosol	0.60	0.34	0.51	1.86	0.13	0.16	0.57	1.26	1.64	14.2	0	52
SO4--	pm10_pm25	0.08	0.06	0.07	1.85	0.03	0.03	0.06	0.22	0.34	14.2	0	52
SO4--	pm25	0.52	0.33	0.42	2.04	0.08	0.10	0.48	1.18	1.57	14.2	0	52

IT0004R Ispra

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	312.19	208.29	264.89	1.72	107.00	140.00	226.00	758.00	1623.00	95.8	0	8390
EC	pm25	1.35	1.33	0.87	2.77	0.00	0.18	0.82	4.52	7.05	86.2	0	315
NH4+	pm25	1.39	1.43	0.87	2.86	-0.05	0.13	0.96	4.69	9.89	85.9	0	314
NO2	air	5.46	4.51	3.96	2.34	-2.42	0.86	4.11	14.75	34.10	94.0	0	8237
NO3-	pm25	0.83	1.21	0.25	6.64	-0.04	0.00	0.23	3.62	8.43	85.9	0	314
OC	pm25	6.35	5.57	4.37	2.48	0.09	0.92	4.25	18.69	26.54	86.2	0	315
PM25 mass	pm25	17.30	14.66	11.98	2.50	0.48	2.27	12.21	48.28	74.41	85.4	0	312
SO2	air	0.30	0.33	0.22	2.46	-0.41	0.01	0.21	0.96	3.93	97.8	0	8566
SO4--	pm25	0.64	0.45	0.49	2.17	0.00	0.13	0.52	1.47	2.73	85.9	0	314

LT0015R Preila

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.57	0.45	0.43	2.17	0.02	0.13	0.43	1.61	2.49	92.0	0	336
NH3+NH4+	air+aerosol	0.85	0.66	0.61	2.38	0.04	0.13	0.67	2.17	4.12	92.0	0	336
NO2	air	0.84	0.51	0.73	1.70	0.14	0.30	0.73	1.80	3.98	97.0	0	355
SO2	air	0.27	0.33	0.17	2.53	0.02	0.04	0.16	0.81	2.89	90.9	0	332
SO4--	aerosol	0.72	0.44	0.62	1.71	0.08	0.27	0.63	1.59	3.37	90.9	0	332

LV0010R Rucava

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.21	0.22	0.09	5.06	0.00	0.00	0.14	0.66	1.06	94.2	8	50
Cl-	pm25	0.06	0.08	0.02	4.41	0.00	0.00	0.02	0.29	0.37	94.2	22	50
HNO3+NO3-	air+aerosol	0.46	0.42	0.33	2.36	0.03	0.08	0.34	1.33	3.12	82.7	0	302
K+	pm25	0.08	0.08	0.05	3.31	0.00	0.00	0.05	0.24	0.36	94.2	10	50
Mg++	pm25	0.01	0.01	0.01	3.87	0.00	0.00	0.01	0.05	0.07	94.2	8	50
NH3+NH4+	air+aerosol	1.12	0.79	0.87	2.11	0.10	0.23	0.89	2.64	3.98	85.8	0	313
NH4+	aerosol	0.72	0.59	0.47	3.11	0.01	0.05	0.60	2.02	2.85	85.8	16	313
NH4+	pm25	0.36	0.28	0.26	2.77	0.01	0.02	0.35	0.72	1.90	94.2	0	50
NO2	air	0.77	0.50	0.65	1.83	0.05	0.26	0.66	1.66	4.57	99.7	6	364
NO3-	aerosol	0.09	0.24	0.03	3.70	0.00	0.00	0.02	0.58	1.57	83.0	60	303
NO3-	pm25	0.08	0.08	0.06	2.12	0.02	0.02	0.06	0.30	0.42	94.2	0	50
Na+	pm25	0.09	0.09	0.06	2.90	0.00	0.01	0.07	0.33	0.34	94.2	3	50
PM10 mass	pm10	14.24	8.07	12.14	1.79	2.20	4.07	12.10	31.16	44.50	80.3	0	293
PM25 mass	pm25	9.21	5.42	7.83	1.80	1.00	2.80	7.80	20.47	35.90	85.5	0	312
SO2	air	0.31	0.44	0.16	3.11	0.00	0.03	0.16	1.10	3.67	96.2	3	351
SO4--	aerosol	0.43	0.33	0.33	2.12	0.05	0.08	0.36	1.09	2.38	83.0	0	303
SO4--	pm25	0.56	0.28	0.51	1.64	0.12	0.17	0.54	1.33	1.44	94.2	0	50
SO4-- corr	pm25	0.56	0.28	0.50	1.66	0.11	0.17	0.54	1.33	1.43	94.2	0	50

MD0013R Leova II

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.61	1.05	0.35	3.06	0.01	0.02	0.39	1.65	13.97	74.3	13	272
Cl-	aerosol	0.33	0.27	0.24	2.41	0.01	0.06	0.24	0.84	2.05	96.8	3	354
HNO3	air	0.44	0.32	0.36	1.86	0.05	0.11	0.34	0.98	3.51	96.7	0	353
HNO3+NO3-	air+aerosol	0.80	0.55	0.67	1.82	0.05	0.25	0.69	1.66	5.03	96.7	0	353
K+	aerosol	0.25	0.35	0.11	3.89	0.01	0.01	0.13	0.89	2.78	74.3	35	272
Mg++	aerosol	0.11	0.26	0.05	3.47	0.01	0.01	0.05	0.32	2.56	74.3	80	272
NH3	air	0.36	0.48	0.11	6.05	0.01	0.01	0.14	1.46	3.07	73.7	34	269
NH3+NH4+	air+aerosol	1.05	1.20	0.65	2.94	0.02	0.08	0.84	2.79	11.19	73.7	0	269
NH4+	aerosol	0.60	0.67	0.28	4.54	0.01	0.01	0.41	2.14	4.71	73.3	7	268
NO2	air	0.29	0.16	0.26	1.62	0.05	0.11	0.27	0.52	1.88	89.0	0	326
NO3-	aerosol	0.36	0.43	0.22	3.06	0.01	0.03	0.23	1.09	3.95	96.8	7	354
Na+	aerosol	0.22	0.39	0.10	3.64	0.01	0.01	0.10	0.97	2.96	74.1	37	271
PM10 mass	pm10	28.07	23.77	12.64	6.20	0.25	0.25	24.36	68.23	140.84	96.8	56	354
SO2	air	0.65	0.61	0.44	2.57	0.01	0.10	0.47	1.66	4.65	96.4	2	352
SO4--	aerosol	0.87	0.62	0.64	2.54	0.01	0.11	0.78	1.88	3.92	96.5	5	353
SO4-- corr	aerosol	0.85	0.62	0.64	2.47	-0.01	0.09	0.75	1.86	3.91	96.5	5	353

MK0007R Lazaropole

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	-	-	-	-	-	-	-	-	-	0.0	0	0
PM10 mass	pm10	21.36	23.27	15.87	2.20	0.72	3.64	17.48	46.72	629.90	47.1	0	4128
SO2	air	-	-	-	-	-	-	-	-	-	0.0	0	0

NL0007R Eibergen

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH3	air	5.47	4.54	4.03	2.28	-0.25	1.03	4.15	14.04	45.42	91.6	0	8021
NO	air	0.94	2.42	0.38	3.46	-0.77	0.00	0.32	3.72	29.80	97.1	0	8507
NO2	air	4.29	2.85	3.47	1.96	0.13	1.09	3.52	10.15	19.52	97.1	0	8508
PM10 mass	pm10	15.35	11.92	12.24	2.27	-4.95	1.08	13.51	37.12	149.15	90.6	0	7940
SO2	air	0.37	0.85	0.48	2.93	-1.47	-0.75	0.28	1.79	11.93	94.9	0	8311

NL0008R Bilthoven

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.16	0.09	0.14	1.65	0.04	0.06	0.14	0.34	0.63	49.9	0	182
Mg++	aerosol	0.11	0.09	0.08	2.25	0.01	0.02	0.09	0.30	0.57	49.9	5	182
Na+	aerosol	0.79	0.74	0.50	2.78	0.02	0.10	0.54	2.24	4.68	49.9	3	182

NL0009R Kollumerwaard

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.12	0.07	0.10	1.64	0.03	0.05	0.10	0.25	0.44	49.9	6	182
Mg++	aerosol	0.13	0.10	0.09	2.41	0.00	0.02	0.09	0.34	0.48	49.9	4	182
NO	air	0.78	1.49	0.47	2.77	-1.42	0.03	0.47	2.18	28.31	98.4	0	8620
NO2	air	3.67	2.46	3.07	1.79	0.41	1.24	2.99	8.70	17.94	98.4	0	8620
Na+	aerosol	0.93	0.82	0.62	2.62	0.03	0.13	0.66	2.66	3.95	49.6	1	181
PM10 mass	pm10	17.56	12.61	14.04	2.18	-6.10	2.21	15.02	42.33	145.12	92.5	0	8099
PM25 mass	pm25	10.00	8.67	7.12	2.33	0.41	1.80	6.66	29.87	52.77	91.2	0	333
SO2	air	0.26	0.55	0.33	2.73	-1.29	-0.49	0.22	1.08	7.03	95.1	0	8330

NL0010R Vredepeel

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.26	0.22	0.20	2.01	0.05	0.07	0.18	0.75	1.28	47.1	0	172
Cl-	aerosol	0.59	0.71	0.35	2.78	0.05	0.08	0.33	1.82	4.75	49.6	21	181
Mg++	aerosol	0.11	0.07	0.09	1.93	0.01	0.03	0.10	0.25	0.41	47.1	2	172
NH4+	aerosol	1.52	1.52	0.92	3.02	0.03	0.12	1.03	5.32	8.59	49.6	0	181
NO	air	1.71	3.63	0.63	4.00	-0.57	0.03	0.50	8.39	52.14	98.6	0	8637
NO2	air	5.28	3.72	4.10	2.11	0.10	1.16	4.25	12.81	27.27	98.6	0	8637
NO3-	aerosol	1.57	1.19	1.20	2.13	0.20	0.32	1.20	4.10	6.39	49.6	0	181
Na+	aerosol	0.56	0.52	0.39	2.37	0.07	0.10	0.41	1.44	3.30	47.1	0	172
PM10 mass	pm10	21.68	17.82	16.58	2.28	-6.07	2.96	17.36	56.11	241.23	93.9	0	8225
PM25 mass	pm25	15.07	11.82	11.63	2.08	1.64	3.30	11.99	36.74	98.41	100.0	0	365
SO4--	aerosol	0.90	0.71	0.72	1.93	0.14	0.24	0.69	2.48	4.38	49.6	0	181
SO4-- corr	aerosol	0.85	0.72	0.65	2.11	0.10	0.17	0.65	2.46	4.35	49.6	0	181

NL0091R De Zilk

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	1.35	1.73	0.58	3.91	0.05	0.08	0.48	5.63	8.85	47.4	20	173
NH3	air	1.59	2.72	0.85	3.06	-0.21	0.11	0.82	5.10	36.12	89.2	0	7813
NH4+	aerosol	1.05	1.36	0.44	4.28	0.02	0.04	0.50	4.40	6.80	47.4	1	173
NO	air	1.48	5.01	0.42	4.74	-1.09	-0.19	0.25	6.46	70.52	96.5	0	8451
NO2	air	4.84	4.14	3.31	2.56	-0.54	0.60	3.62	13.73	25.60	95.9	0	8402
NO3-	aerosol	1.19	1.13	0.83	2.33	0.09	0.22	0.75	3.39	6.58	47.4	0	173
PM10 mass	pm10	18.81	13.58	14.88	2.30	-4.76	1.76	16.04	45.34	114.48	91.3	0	8002
PM25 mass	pm25	10.81	13.63	7.40	2.31	0.06	2.31	6.45	30.90	145.45	94.2	0	344
SO2	air	0.65	0.73	0.53	2.64	-1.04	-0.18	0.53	1.92	12.93	99.5	0	8720
SO4--	aerosol	0.79	0.51	0.68	1.69	0.22	0.33	0.65	2.04	3.15	47.4	0	174
SO4-- corr	aerosol	0.70	0.49	0.57	1.98	0.09	0.14	0.59	1.87	2.89	47.4	0	174

NL0644R Cabauw Wielsekade

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	163.20	61.74	153.71	1.40	6.79	92.45	149.39	281.18	949.32	97.7	0	8557
EC	pm25	0.36	0.18	0.33	1.63	0.11	0.13	0.32	0.70	0.94	19.7	0	72
NO	air	1.90	4.84	0.63	4.07	-0.76	0.03	0.50	8.28	69.45	97.6	0	8546
NO2	air	5.77	3.76	4.69	1.94	0.53	1.52	4.70	13.37	25.40	97.1	0	8506
OC	pm25	2.57	1.33	2.34	1.51	1.17	1.30	2.25	5.63	8.51	19.7	0	72
PM10 mass	pm10	19.67	14.29	15.63	2.21	-4.96	2.36	16.61	47.94	106.83	91.5	0	8014
PM25 mass	pm25	12.54	9.13	9.95	1.97	1.68	3.36	10.04	31.65	48.25	49.6	0	181
SO2	air	0.59	0.81	0.50	3.01	-0.93	-0.33	0.43	2.08	10.43	95.8	0	8390
TC	pm25	2.93	1.43	2.69	1.49	1.34	1.43	2.63	6.05	9.20	19.7	0	72

NO0002R Birkenes II

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.06	0.05	0.04	2.42	0.01	0.01	0.05	0.15	0.49	99.7	20	365
Cl-	aerosol	0.57	1.03	0.13	6.62	0.01	0.01	0.12	2.57	7.04	99.7	74	365
EC	pm10	0.09	0.04	0.08	1.64	0.02	0.03	0.07	0.17	0.17	98.1	0	52
EC	pm25	0.08	0.04	0.07	1.58	0.02	0.03	0.07	0.15	0.18	97.9	0	52
HNO3	air	0.08	0.09	0.04	3.17	0.01	0.01	0.05	0.27	0.58	99.5	114	364
HNO3+NO3-	air+aerosol	0.29	0.38	0.16	2.86	0.01	0.03	0.16	1.07	3.01	99.5	0	364
K+	aerosol	0.06	0.05	0.05	2.02	0.01	0.02	0.05	0.14	0.40	98.9	4	362
Mg++	aerosol	0.06	0.08	0.03	3.45	0.01	0.01	0.03	0.23	0.59	99.7	66	365
NH3	air	0.23	0.15	0.20	1.76	0.02	0.08	0.19	0.53	1.15	99.5	1	364
NH3+NH4+	air+aerosol	0.46	0.45	0.33	2.21	0.05	0.10	0.32	1.40	2.84	99.5	0	364
NH4+	aerosol	0.23	0.38	0.07	5.83	0.01	0.01	0.11	0.94	2.41	99.5	80	364
NO2	air	0.28	0.28	0.20	2.42	0.01	0.05	0.20	0.73	2.64	100.0	13	366
NO3-	aerosol	0.21	0.34	0.10	3.26	0.01	0.02	0.10	0.83	2.75	99.5	10	364
Na+	aerosol	0.51	0.68	0.23	4.14	0.01	0.02	0.23	1.82	5.23	99.5	5	364
OC	pm10	0.76	0.54	0.61	1.88	0.18	0.21	0.58	2.31	2.55	98.1	0	52
OC	pm25	0.57	0.38	0.47	1.84	0.12	0.16	0.44	1.59	1.98	97.9	0	52
PM10 mass	pm10	4.90	2.32	4.34	1.63	1.45	1.91	4.37	9.45	10.03	92.3	0	49
PM25 mass	pm25	2.92	1.57	2.49	1.74	0.81	1.05	2.47	6.05	7.11	86.1	0	46
SO2	air	0.09	0.10	0.05	3.04	0.01	0.01	0.05	0.30	0.78	99.7	82	365
SO4--	aerosol	0.25	0.24	0.16	2.77	0.01	0.03	0.18	0.69	1.80	99.7	3	365
SO4-- corr	aerosol	0.21	0.23	0.11	3.46	-0.00	0.01	0.12	0.63	1.80	99.7	3	365
TC	pm10	0.84	0.55	0.70	1.80	0.24	0.26	0.68	2.38	2.73	98.1	0	52
TC	pm25	0.65	0.40	0.55	1.77	0.17	0.20	0.53	1.68	2.12	97.9	0	52

NO0015R Tustervatn

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.04	0.04	0.02	2.72	0.01	0.01	0.03	0.10	0.34	90.1	63	330
Cl-	aerosol	0.25	0.54	0.06	5.58	0.01	0.01	0.05	1.01	6.68	90.1	114	330
HNO3	air	0.03	0.05	0.02	2.64	0.01	0.01	0.01	0.14	0.51	90.1	226	330
HNO3+NO3-	air+aerosol	0.13	0.31	0.06	2.99	0.01	0.01	0.05	0.46	3.18	90.1	0	330
K+	aerosol	0.03	0.04	0.02	2.71	0.01	0.01	0.03	0.08	0.28	90.1	75	330
Mg++	aerosol	0.02	0.04	0.01	2.80	0.01	0.01	0.01	0.09	0.51	90.1	135	330
NH3	air	0.57	0.49	0.42	2.29	0.02	0.10	0.44	1.48	4.76	89.6	3	328
NH3+NH4+	air+aerosol	0.69	0.72	0.49	2.32	0.03	0.13	0.50	1.88	6.58	90.1	0	330
NH4+	aerosol	0.09	0.26	0.02	4.90	0.01	0.01	0.02	0.39	2.53	90.1	135	330
NO2	air	0.13	0.11	0.10	2.21	0.01	0.01	0.12	0.27	1.39	99.5	32	364
NO3-	aerosol	0.09	0.28	0.03	3.57	0.01	0.01	0.03	0.32	3.01	90.1	53	330
Na+	aerosol	0.20	0.35	0.08	4.39	0.01	0.01	0.09	0.69	4.45	90.1	31	330
SO2	air	0.03	0.07	0.02	2.51	0.01	0.01	0.01	0.18	0.89	89.9	225	329
SO4--	aerosol	0.08	0.09	0.05	3.03	0.01	0.01	0.06	0.24	0.69	90.1	31	330
SO4-- corr	aerosol	0.07	0.08	0.03	4.35	-0.10	0.00	0.04	0.24	0.67	90.1	31	330

NO0039R K rvatn

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.04	0.05	0.03	2.75	0.00	0.01	0.03	0.12	0.46	98.4	59	360
Cl-	aerosol	0.16	0.37	0.04	4.44	0.01	0.01	0.03	1.01	2.61	98.1	124	359
EC	pm10	0.06	0.04	0.04	2.42	0.00	0.01	0.05	0.14	0.18	98.3	0	52
EC	pm25	0.06	0.04	0.05	2.05	0.01	0.01	0.06	0.14	0.18	98.3	0	52
HNO3	air	0.04	0.06	0.02	2.87	0.01	0.01	0.01	0.16	0.31	95.9	199	351
HNO3+NO3-	air+aerosol	0.13	0.21	0.07	2.86	0.01	0.02	0.07	0.39	2.10	95.6	0	350
K+	aerosol	0.04	0.03	0.03	2.59	0.00	0.01	0.03	0.10	0.18	97.8	53	358
Mg++	aerosol	0.02	0.03	0.01	2.55	0.00	0.01	0.01	0.08	0.21	98.4	164	360
NH3	air	0.48	0.45	0.36	2.13	0.03	0.11	0.35	1.35	3.28	96.2	1	352
NH3+NH4+	air+aerosol	0.57	0.49	0.43	2.15	0.06	0.12	0.45	1.65	3.49	95.9	0	351
NH4+	aerosol	0.09	0.18	0.03	4.66	0.01	0.01	0.03	0.31	1.55	96.2	108	352
NO2	air	0.16	0.17	0.11	2.36	0.01	0.01	0.12	0.43	1.47	99.5	30	364
NO3-	aerosol	0.08	0.18	0.04	3.34	0.01	0.01	0.04	0.26	1.94	95.9	37	351
Na+	aerosol	0.15	0.24	0.07	3.78	0.00	0.01	0.07	0.58	1.80	98.4	32	360
OC	pm10	0.75	0.68	0.54	2.21	0.11	0.16	0.45	1.89	4.08	98.3	0	52
OC	pm25	0.53	0.45	0.42	1.91	0.15	0.17	0.38	1.43	2.67	98.3	0	52
PM10 mass	pm10	3.11	2.19	2.51	1.86	0.88	0.94	2.29	8.03	11.30	100.0	0	53
PM25 mass	pm25	2.22	1.90	1.70	2.00	0.54	0.65	1.52	5.61	11.26	100.0	0	53
SO2	air	0.02	0.03	0.01	2.10	0.01	0.01	0.01	0.07	0.24	98.1	263	359
SO4--	aerosol	0.09	0.09	0.06	3.08	0.00	0.01	0.06	0.29	0.55	98.1	20	359
SO4-- corr	aerosol	0.08	0.09	0.04	3.86	0.00	0.00	0.04	0.26	0.55	98.1	20	359
TC	pm10	0.81	0.70	0.59	2.16	0.11	0.17	0.52	1.97	4.18	98.3	0	52
TC	pm25	0.59	0.47	0.47	1.89	0.16	0.18	0.45	1.56	2.79	98.3	0	52

NO0042G Zeppelin mountain (Ny-Ålesund)

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	112.51	25.92	109.62	1.26	70.31	76.86	104.44	151.71	190.63	97.0	0	8493
CO	air	112.52	25.74	109.66	1.25	71.97	76.67	104.29	151.15	188.06	97.3	0	355
Ca++	aerosol	0.04	0.03	0.03	2.36	0.00	0.01	0.03	0.10	0.16	84.7	35	310
Cl-	aerosol	0.32	0.59	0.11	4.83	0.01	0.01	0.12	1.45	5.76	84.9	57	311
HNO3	air	0.05	0.08	0.02	3.13	0.01	0.01	0.01	0.25	0.42	83.3	200	305
HNO3+NO3-	air+aerosol	0.18	0.30	0.08	3.25	0.01	0.02	0.06	0.84	2.18	83.0	0	304
K+	aerosol	0.03	0.03	0.02	2.53	0.00	0.01	0.03	0.09	0.22	82.7	50	303
Mg++	aerosol	0.04	0.05	0.02	2.79	0.00	0.01	0.02	0.12	0.54	84.7	69	310
NH3	air	0.17	0.12	0.13	2.12	0.02	0.03	0.14	0.43	0.87	79.7	25	292
NH3+NH4+	air+aerosol	0.28	0.27	0.20	2.27	0.03	0.04	0.21	0.84	1.99	79.5	0	291
NH4+	aerosol	0.11	0.21	0.03	4.88	0.01	0.01	0.04	0.50	1.75	82.7	88	303
NO3-	aerosol	0.13	0.24	0.05	4.08	0.01	0.01	0.04	0.70	2.01	83.0	41	304
Na+	aerosol	0.25	0.35	0.13	3.39	0.01	0.01	0.15	0.93	3.53	84.7	11	310
SO2	air	0.09	0.22	0.03	3.72	0.01	0.01	0.01	0.41	2.74	84.9	170	311
SO4--	aerosol	0.16	0.15	0.09	3.42	0.01	0.01	0.11	0.50	0.72	84.7	17	310
SO4-- corr	aerosol	0.14	0.15	0.06	4.76	-0.08	0.00	0.08	0.48	0.72	84.7	17	310

NO0056R Hurdal

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.05	0.04	0.04	2.60	0.01	0.01	0.04	0.12	0.40	99.7	44	365
Cl-	aerosol	0.14	0.26	0.05	4.38	0.01	0.01	0.04	0.56	1.84	99.7	143	365
EC	pm10	0.14	0.06	0.13	1.59	0.04	0.05	0.13	0.27	0.29	100.0	0	53
EC	pm25	0.14	0.06	0.13	1.56	0.05	0.06	0.13	0.25	0.32	100.0	0	53
HNO3	air	0.06	0.06	0.03	2.94	0.01	0.01	0.03	0.18	0.33	99.5	137	364
HNO3+NO3-	air+aerosol	0.18	0.20	0.11	2.64	0.01	0.02	0.10	0.61	1.17	99.5	0	364
K+	aerosol	0.06	0.05	0.04	2.46	0.01	0.01	0.05	0.15	0.40	99.7	28	365
Mg++	aerosol	0.02	0.03	0.01	2.63	0.01	0.01	0.01	0.07	0.20	99.7	148	365
NH3	air	0.22	0.13	0.18	1.90	0.02	0.07	0.19	0.46	0.89	93.4	11	342
NH3+NH4+	air+aerosol	0.37	0.27	0.29	2.12	0.03	0.08	0.30	0.98	1.33	93.4	0	342
NH4+	aerosol	0.15	0.20	0.06	5.26	0.01	0.01	0.08	0.58	1.15	99.5	88	364
NO2	air	0.69	0.87	0.40	3.17	0.01	0.04	0.44	2.11	8.39	99.5	16	364
NO3-	aerosol	0.12	0.16	0.06	3.18	0.01	0.01	0.06	0.43	0.92	99.5	21	364
Na+	aerosol	0.17	0.22	0.08	4.05	0.01	0.01	0.09	0.54	1.53	99.7	36	365
OC	pm10	1.05	0.69	0.87	1.79	0.29	0.36	0.86	2.51	3.84	100.0	0	53
OC	pm25	0.76	0.51	0.66	1.67	0.29	0.31	0.63	1.84	3.22	100.0	0	53
PM10 mass	pm10	4.55	2.06	4.19	1.50	1.96	2.24	4.13	9.81	11.89	100.0	0	53
PM25 mass	pm25	3.12	1.72	2.75	1.63	1.05	1.34	2.71	6.93	10.00	100.0	0	53
SO2	air	0.04	0.06	0.02	2.73	0.01	0.01	0.01	0.17	0.49	99.7	203	365
SO4--	aerosol	0.17	0.17	0.11	2.68	0.01	0.02	0.11	0.51	1.38	99.7	3	365
SO4-- corr	aerosol	0.16	0.17	0.09	3.03	0.00	0.02	0.10	0.50	1.38	99.7	3	365
TC	pm10	1.19	0.71	1.02	1.69	0.35	0.43	0.99	2.62	4.07	100.0	0	53
TC	pm25	0.90	0.54	0.79	1.60	0.35	0.36	0.77	1.95	3.46	100.0	0	53

PL0002R Jarczew

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.74	0.52	0.58	2.04	0.04	0.19	0.59	1.83	2.64	98.3	0	359
NH3+NH4+	air+aerosol	2.74	1.49	2.40	1.69	0.16	0.97	2.46	5.43	10.44	98.4	0	360
NH4+	aerosol	1.39	0.77	1.19	1.79	0.10	0.48	1.22	2.92	5.07	98.4	0	360
NO2	air	2.75	1.62	2.38	1.71	0.20	1.10	2.35	5.72	15.10	99.5	0	364
NO3-	aerosol	0.60	0.46	0.45	2.21	0.01	0.13	0.45	1.60	2.49	98.4	1	360
SO2	air	1.06	0.92	0.72	2.56	0.10	0.20	0.80	3.00	5.20	98.4	13	360
SO4--	aerosol	0.99	0.63	0.80	2.02	0.10	0.21	0.89	2.14	4.18	98.4	9	360

PL0003R Sniezka

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.47	0.22	0.42	1.68	0.02	0.17	0.45	0.87	1.30	100.0	0	366
NH3+NH4+	air+aerosol	0.75	0.35	0.66	1.67	0.06	0.27	0.71	1.41	2.07	100.0	0	366
NH4+	aerosol	0.52	0.25	0.45	1.76	0.03	0.15	0.48	0.99	1.39	100.0	1	366
NO2	air	0.94	0.40	0.86	1.56	0.20	0.40	0.90	1.70	2.10	99.9	0	365
NO3-	aerosol	0.35	0.16	0.31	1.73	0.01	0.12	0.33	0.64	0.90	100.0	1	366
SO2	air	0.94	0.39	0.86	1.57	0.20	0.40	0.90	1.70	2.40	100.0	0	366
SO4--	aerosol	0.82	0.37	0.73	1.70	0.10	0.27	0.79	1.55	2.04	100.0	6	366

PL0004R Leba

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.49	0.40	0.37	2.15	0.04	0.11	0.36	1.41	2.11	98.4	0	360
NH3+NH4+	air+aerosol	1.55	0.93	1.30	1.83	0.28	0.45	1.32	3.59	5.04	98.4	0	360
NH4+	aerosol	0.99	0.62	0.82	1.87	0.03	0.30	0.85	2.25	3.70	98.4	1	360
NO2	air	1.17	0.80	0.98	1.81	0.20	0.40	1.00	2.50	5.60	98.1	0	359
NO3-	aerosol	0.39	0.38	0.27	2.50	0.01	0.06	0.26	1.31	2.07	98.4	3	360
SO2	air	0.70	0.58	0.53	2.14	0.10	0.20	0.50	2.00	4.30	98.4	9	360
SO4--	aerosol	0.93	0.51	0.79	1.85	0.10	0.23	0.84	1.88	3.14	98.4	7	360

PL0005R Diabla Gora

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.04	0.02	0.04	1.87	0.00	0.01	0.04	0.07	0.08	91.8	0	48
Cl-	pm25	0.02	0.02	0.02	1.96	0.00	0.00	0.01	0.08	0.09	89.9	0	47
EC	pm25	0.51	0.39	0.39	2.15	0.04	0.13	0.41	1.26	3.06	92.3	0	338
HNO3	air	0.69	0.52	0.57	1.89	0.10	0.21	0.56	1.59	5.07	98.1	0	359
HNO3+NO3-	air+aerosol	1.15	0.86	0.92	1.96	0.17	0.33	0.89	2.74	7.28	98.1	0	359
K+	pm25	0.08	0.05	0.06	2.07	0.01	0.02	0.06	0.20	0.22	91.8	0	48
Mg++	pm25	0.01	0.00	0.01	1.56	0.00	0.01	0.01	0.02	0.02	91.8	0	48
NH3	air	0.77	0.72	0.52	2.47	0.06	0.12	0.50	2.36	4.68	98.1	3	359
NH3+NH4+	air+aerosol	2.03	1.09	1.75	1.77	0.16	0.65	1.84	3.98	6.66	98.1	0	359
NH4+	aerosol	1.27	0.86	0.96	2.34	0.09	0.17	1.13	2.75	4.75	98.1	13	359
NH4+	pm25	0.61	0.46	0.45	2.41	0.05	0.05	0.52	1.66	2.17	91.8	0	48
NO2	air	1.04	0.81	0.77	2.24	0.11	0.20	0.74	2.66	5.01	97.8	0	358
NO3-	aerosol	0.46	0.42	0.32	2.32	0.06	0.09	0.30	1.35	2.35	98.1	0	359
NO3-	pm25	0.23	0.23	0.13	3.69	0.00	0.01	0.18	0.68	0.89	91.8	0	48
Na+	pm25	0.13	0.05	0.12	1.50	0.04	0.05	0.13	0.22	0.28	91.8	0	48
OC	pm25	3.04	2.53	2.29	2.15	0.16	0.64	2.39	7.79	18.70	92.3	0	338
PM10 mass	pm10	15.67	10.28	13.21	1.80	2.72	5.02	12.86	34.35	78.63	98.9	0	362
PM25 mass	pm25	12.83	8.96	10.41	1.93	1.82	3.33	10.49	29.05	69.08	92.3	0	338
SO2	air	0.58	0.42	0.47	1.91	0.12	0.17	0.45	1.47	2.77	99.5	0	364
SO4--	aerosol	0.57	0.49	0.43	2.14	0.04	0.12	0.42	1.50	3.74	99.5	0	364
SO4--	pm25	0.61	0.36	0.53	1.70	0.11	0.20	0.52	1.43	2.04	91.8	0	48
SO4-- corr	pm25	0.60	0.36	0.52	1.71	0.11	0.19	0.52	1.42	2.03	91.8	0	48

R00003R Semenik

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	56.32	98.69	34.77	2.32	0.00	8.59	25.77	163.21	1924.16	78.8	0	6902
NO2	air	1.85	1.31	1.57	1.70	0.58	0.80	1.42	4.36	13.89	61.0	0	5345

R00008R Poiana Stampei

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.85	1.31	1.57	1.70	0.58	0.80	1.42	4.36	13.89	61.0	0	5345
PM10 mass	pm10	15.31	8.69	13.39	1.68	2.00	5.63	13.45	32.66	62.15	67.1	0	245
SO2	air	3.46	0.82	3.37	1.24	0.45	2.38	3.37	4.71	14.24	62.5	0	5471

RS0005R Kamenicki vis

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.66	0.15	0.65	1.17	0.61	0.61	0.61	0.91	1.95	87.9	200	321
SO2	air	7.98	5.47	5.49	2.79	0.75	0.75	7.85	17.10	28.80	91.0	53	332

RU0018R Danki

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.38	0.26	0.30	2.16	0.01	0.09	0.32	0.91	1.31	100.0	0	366
NO3-	aerosol	0.37	0.41	0.25	2.46	0.00	0.04	0.22	1.18	2.91	100.0	0	366
SO2	air	0.39	0.61	0.17	3.69	0.02	0.02	0.17	1.54	4.70	100.0	0	366
SO4--	aerosol	0.66	0.58	0.48	2.31	0.00	0.12	0.51	1.89	3.60	100.0	0	366

RU0020R Lesnoy

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.15	0.05	0.14	1.44	0.06	0.06	0.14	0.24	0.28	98.1	0	52
NO3-	aerosol	0.17	0.13	0.13	2.21	0.00	0.04	0.13	0.46	0.57	98.1	0	52
SO2	air	0.31	0.48	0.11	4.01	0.02	0.02	0.10	1.44	2.20	98.1	0	52
SO4--	aerosol	0.53	0.31	0.44	1.86	0.06	0.14	0.47	1.19	1.35	98.1	0	52

SE0005R Bredkålen

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.03	0.01	0.03	1.18	0.03	0.03	0.03	0.03	0.20	98.1	356	359
Cl-	aerosol	0.13	0.21	0.05	3.28	0.03	0.03	0.03	0.61	1.42	98.1	249	359
HNO3+NO3-	air+aerosol	0.04	0.07	0.02	2.62	0.01	0.01	0.03	0.10	0.70	98.1	47	359
K+	aerosol	0.02	0.02	0.02	1.37	0.01	0.01	0.01	0.01	0.37	98.1	346	359
Mg++	aerosol	0.02	0.01	0.02	1.43	0.01	0.01	0.01	0.05	0.13	98.1	338	359
NH3+NH4+	air+aerosol	0.16	0.24	0.08	3.65	0.01	0.01	0.08	0.57	2.02	98.1	72	359
NO2	air	0.08	0.09	0.06	1.78	0.05	0.05	0.05	0.29	0.54	98.1	317	359
Na+	aerosol	0.11	0.14	0.06	2.98	0.03	0.03	0.03	0.43	0.97	98.1	221	359
PM10 mass	pm10	3.42	2.34	2.79	1.89	0.50	1.00	2.65	8.79	12.30	93.1	0	340
PM25 mass	pm25	1.86	1.29	1.51	1.94	0.10	0.50	1.50	4.55	7.10	91.2	0	334
SO2	air	0.05	0.06	0.03	3.53	0.01	0.01	0.03	0.18	0.32	98.1	116	359
SO4--	aerosol	0.10	0.11	0.06	3.37	0.01	0.01	0.07	0.31	0.64	98.1	48	359
SO4-- corr	aerosol	0.09	0.11	0.05	3.51	-0.01	0.01	0.05	0.31	0.63	98.1	48	359
SPM	aerosol	0.38	0.00	0.38	1.00	0.38	0.38	0.38	0.38	0.38	98.1	359	359

SE0011R Vavihill

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.06	0.08	0.04	2.32	0.03	0.03	0.03	0.23	0.65	91.2	253	334
Cl-	aerosol	0.39	0.83	0.09	5.22	0.03	0.03	0.03	2.03	6.80	91.2	199	334
EC	pm10	0.20	0.12	0.16	2.07	0.00	0.04	0.17	0.46	0.62	88.5	0	103
HNO3+NO3-	air+aerosol	0.42	0.39	0.30	2.38	0.01	0.07	0.31	1.19	2.41	91.0	1	333
K+	aerosol	0.07	0.05	0.05	2.40	0.01	0.01	0.07	0.16	0.28	91.2	104	334
Mg++	aerosol	0.06	0.07	0.03	2.77	0.01	0.01	0.01	0.22	0.49	91.2	199	334
NH3+NH4+	air+aerosol	0.88	0.81	0.59	2.59	0.01	0.12	0.66	2.51	5.33	90.1	1	330
NO2	air	1.12	0.90	0.92	1.85	0.05	0.39	0.88	2.55	7.95	98.1	1	359
Na+	aerosol	0.47	0.57	0.22	3.99	0.03	0.03	0.27	1.65	4.01	91.2	73	334
OC	pm10	1.15	0.61	0.99	1.72	0.25	0.37	1.00	2.46	3.12	88.5	0	103
PM10 mass	pm10	12.99	7.66	10.87	1.89	-1.20	3.60	11.70	27.10	61.40	90.9	0	7963
PM25 mass	pm25	6.24	5.95	4.50	2.61	-2.90	0.10	4.80	17.60	48.00	65.9	0	5776
SO2	air	0.21	0.23	0.15	2.38	0.01	0.04	0.15	0.62	2.64	91.0	5	333
SO4--	aerosol	0.34	0.26	0.26	2.24	0.01	0.06	0.28	0.78	2.55	91.2	2	334
SO4-- corr	aerosol	0.30	0.27	0.21	2.53	0.01	0.04	0.24	0.77	2.54	91.2	2	334
SPM	aerosol	0.78	0.97	0.53	2.08	0.38	0.38	0.38	2.64	8.10	98.1	294	359
TC	pm10	1.34	0.71	1.16	1.74	0.27	0.43	1.19	2.90	3.73	88.5	0	103

SE0012R Aspvreten

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.04	0.06	0.03	1.91	0.03	0.03	0.03	0.18	0.61	98.9	317	362
Cl-	aerosol	0.26	0.54	0.07	4.39	0.03	0.03	0.03	1.29	4.05	98.6	231	361
EC	pm10	0.16	0.10	0.14	1.79	0.02	0.05	0.13	0.34	0.79	34.5	0	126
HNO3+NO3-	air+aerosol	0.22	0.20	0.17	2.07	0.03	0.05	0.15	0.58	2.37	98.6	0	361
K+	aerosol	0.04	0.05	0.03	2.35	0.01	0.01	0.01	0.12	0.37	98.9	238	362
Mg++	aerosol	0.05	0.06	0.03	2.53	0.01	0.01	0.01	0.19	0.38	98.9	241	362
NH3+NH4+	air+aerosol	0.38	0.32	0.27	2.57	0.01	0.05	0.28	1.06	2.59	98.4	9	360
NO2	air	0.54	0.47	0.40	2.23	0.05	0.05	0.42	1.32	3.59	98.4	27	360
Na+	aerosol	0.37	0.46	0.18	3.76	0.03	0.03	0.20	1.46	2.90	98.9	89	362
OC	pm10	1.53	1.16	1.23	1.91	0.28	0.41	1.23	3.91	7.09	34.5	0	126
PM10 mass	pm10	7.07	4.53	5.95	1.81	0.90	2.10	6.00	15.85	34.80	91.8	0	336
PM25 mass	pm25	5.10	4.29	3.93	2.25	-3.00	0.60	4.00	13.50	38.70	96.1	0	8416
SO2	air	0.18	0.16	0.13	2.64	0.01	0.03	0.14	0.49	1.10	99.2	12	363
SO4--	aerosol	0.31	0.26	0.22	2.38	0.01	0.05	0.23	0.80	1.56	98.6	1	361
SO4-- corr	aerosol	0.28	0.25	0.19	2.57	0.01	0.04	0.20	0.75	1.55	98.6	1	361

SE0014R Råö

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.10	0.08	0.06	2.65	0.03	0.03	0.03	0.25	0.44	99.7	185	365
Cl-	aerosol	2.24	2.94	0.53	8.55	0.03	0.03	0.88	8.69	19.50	99.7	96	365
HNO3+NO3-	air+aerosol	0.44	0.42	0.30	2.47	0.03	0.06	0.29	1.38	2.51	99.7	0	365
K+	aerosol	0.10	0.08	0.07	2.76	0.01	0.01	0.08	0.24	0.51	99.7	102	365
Mg++	aerosol	0.20	0.22	0.09	4.27	0.01	0.01	0.13	0.66	1.32	99.7	128	365
NH3+NH4+	air+aerosol	0.63	0.58	0.43	2.47	0.01	0.11	0.46	1.90	3.55	98.4	2	360
NO2	air	1.12	0.86	0.93	1.81	0.05	0.40	0.94	2.41	7.75	99.5	1	364
Na+	aerosol	1.62	1.74	0.65	5.36	0.03	0.03	0.98	5.28	10.86	99.7	48	365
PM10 mass	pm10	13.34	7.45	11.27	1.84	2.20	3.50	12.15	26.82	43.10	97.8	0	358
PM25 mass	pm25	5.47	4.27	4.43	1.88	0.70	1.80	4.50	13.28	31.90	89.7	0	328
SO2	air	0.28	0.18	0.22	2.13	0.01	0.06	0.24	0.63	1.48	100.0	3	366
SO4--	aerosol	0.40	0.28	0.31	2.32	0.01	0.06	0.35	0.87	1.97	99.7	2	365
SO4-- corr	aerosol	0.27	0.27	0.18	2.65	-0.04	0.02	0.20	0.71	1.97	99.7	2	365
SPM	aerosol	0.93	1.17	0.61	2.26	0.38	0.38	0.38	3.11	12.03	99.7	265	365

SI0008R Iskrba

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.18	0.32	0.10	2.86	0.00	0.03	0.09	0.70	4.55	99.4	117	363
Ca++	pm25	0.07	0.07	0.05	1.81	0.03	0.03	0.06	0.15	0.81	47.8	122	175
Cl-	aerosol	0.06	0.09	0.03	3.06	0.00	0.00	0.04	0.22	0.81	99.1	249	362
Cl-	pm25	0.04	0.02	0.03	1.85	0.02	0.02	0.04	0.07	0.12	47.8	144	175
EC	pm25	0.27	0.20	0.21	2.20	0.01	0.05	0.21	0.66	1.05	47.5	69	174
HNO3+NO3-	air+aerosol	0.18	0.15	0.14	2.09	0.02	0.04	0.14	0.51	0.97	99.1	21	362
K+	aerosol	0.14	0.09	0.11	1.83	0.02	0.04	0.12	0.30	0.54	99.1	33	362
K+	pm25	0.14	0.10	0.11	1.95	0.02	0.04	0.11	0.35	0.58	47.7	6	174
Mg++	aerosol	0.05	0.04	0.03	3.75	0.00	0.00	0.03	0.13	0.27	99.1	137	362
Mg++	pm25	0.01	0.02	0.01	3.84	0.00	0.00	0.00	0.05	0.23	47.8	114	175
NH3+NH4+	air+aerosol	0.72	0.50	0.56	2.17	0.04	0.14	0.65	1.65	2.97	98.5	0	360
NH4+	pm25	0.84	0.72	0.58	2.64	0.00	0.11	0.70	2.44	3.96	47.7	1	174
NO2	air	0.61	0.45	0.51	1.72	0.08	0.26	0.47	1.33	3.80	100.0	1	366
NO3-	pm25	0.28	0.50	0.10	3.69	0.03	0.03	0.08	1.56	2.77	47.7	111	174
Na+	aerosol	0.09	0.12	0.04	3.54	0.00	0.00	0.04	0.35	0.96	99.1	143	362
Na+	pm25	0.03	0.04	0.02	2.76	0.01	0.01	0.02	0.10	0.26	47.8	120	175
OC	pm25	3.26	1.61	2.94	1.56	1.09	1.52	2.92	6.61	9.91	47.5	73	174
PM10 mass	pm10	12.61	6.57	11.02	1.70	2.10	4.38	11.40	26.84	36.00	95.9	0	351
PM25 mass	pm25	10.56	5.94	9.11	1.73	1.50	3.56	9.00	22.97	35.10	95.6	0	350
SO2	air	0.18	0.28	0.07	3.83	0.00	0.01	0.04	0.81	2.26	98.5	287	360
SO4--	aerosol	0.53	0.45	0.37	2.39	0.01	0.09	0.41	1.50	2.51	97.2	50	355
SO4--	pm25	1.90	1.68	1.36	2.33	0.16	0.35	1.54	6.05	9.33	47.8	3	175
SO4-- corr	aerosol	0.52	0.45	0.36	2.43	0.01	0.08	0.41	1.49	2.51	97.2	50	355
SO4-- corr	pm25	1.90	1.68	1.35	2.33	0.16	0.34	1.53	6.05	9.32	47.8	3	175

SK0002R Chopok

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.03	0.03	0.02	2.92	0.00	0.00	0.03	0.10	0.19	94.0	0	344
HNO3	air	0.03	0.02	0.02	1.97	0.00	0.01	0.02	0.06	0.16	90.7	0	332
NO2	air	0.91	0.64	0.66	2.60	0.01	0.15	0.73	2.10	4.93	92.1	5	336
NO3-	aerosol	0.08	0.09	0.05	3.11	0.00	0.01	0.05	0.22	0.64	96.7	0	354
SO2	air	0.26	0.33	0.16	2.59	0.01	0.04	0.15	0.81	3.34	97.0	0	355
SO4--	aerosol	0.18	0.19	0.10	3.33	0.01	0.01	0.11	0.55	0.98	96.7	0	354
SO4-- corr	aerosol	0.17	0.19	0.10	3.49	-0.24	-0.00	0.11	0.55	0.98	96.7	0	354

SK0006R Starina

January 2013 - December 2013

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.05	0.05	0.04	2.19	0.00	0.01	0.04	0.12	0.39	97.0	3	355
Cl-	aerosol	0.09	0.07	0.06	3.15	0.00	0.01	0.07	0.22	0.45	94.0	0	344
HNO3	air	0.08	0.09	0.05	2.36	0.01	0.02	0.04	0.30	0.55	96.4	0	353
K+	aerosol	0.08	0.08	0.06	2.54	0.00	0.01	0.06	0.24	0.50	97.3	5	356
Mg++	aerosol	0.01	0.01	0.01	2.09	0.00	0.00	0.01	0.03	0.07	97.3	55	356
NH3	air	0.66	0.56	0.50	2.17	0.03	0.12	0.52	1.70	3.84	97.3	0	356
NH4+	aerosol	0.58	0.39	0.47	1.95	0.02	0.15	0.49	1.36	2.49	97.3	0	356
NO2	air	1.32	0.74	1.15	1.71	0.14	0.49	1.18	2.94	6.84	98.0	0	358
NO3-	aerosol	0.29	0.22	0.23	2.03	0.03	0.07	0.23	0.69	1.35	97.0	0	355
Na+	aerosol	0.05	0.04	0.03	2.60	0.00	0.00	0.04	0.12	0.25	95.9	23	351
SO2	air	0.77	1.07	0.42	3.04	0.01	0.08	0.40	3.17	6.88	96.4	0	353
SO4--	aerosol	0.65	0.48	0.50	2.14	0.04	0.14	0.52	1.59	3.22	97.0	0	355
SO4-- corr	aerosol	0.64	0.48	0.49	2.16	0.03	0.14	0.52	1.58	3.21	97.0	0	355

Annex 4

Overview of sampling and analytical methods 2013

Country: Armenia		Main components- EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	AM0001R				
Precipitation amount, official gauge	AM0001R	Meteorological station	every event	By volume	
Sulphate	AM0001R	Wet-only	every event	Ion chromatography	
Nitrate	AM0001R	Wet-only	every event	Ion chromatography	
Ammonium	AM0001R	Wet-only	every event	Spectrophotometric, by Nessler reagent	
Magnesium	AM0001R	Wet-only	every event	ICP-MS	
Sodium	AM0001R	Wet-only	every event	ICP-MS	
Chloride	AM0001R	Wet-only	every event	Ion chromatography	
Calcium	AM0001R	Wet-only	every event	ICP-MS	
Potassium	AM0001R	Wet-only	every event	ICP-MS	
Conductivity	AM0001R	Wet-only	every event	Conductivity meter	
pH	AM0001R	Wet-only	every event	pH meter	
Acidity					
Air					
Sulphur dioxide	AM0001R	KOH-impregnated Whatman 40 filter 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrogen dioxide	AM0001R	Nal-impregnated glass sinters, 0.6 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid	AM0001R	KOH-impregnated Whatman 40 filter 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonia	AM0001R	Oxalic acid-impregnated Whatman 40 filter, 20–25 m ³ /day (Filterpack)	Daily	Spectrophotometric, Nessler method	
Ozone	AM0001R				
Sulphate	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrate	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Spectrophotometric, Nessler method	
Sodium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Calcium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Magnesium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Potassium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Chloride	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
PM ₁₀					
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate		KOH-impregnated Whatman 40 filter + Teflon filter, 20–25 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium		Oxalic acid-impregnated Whatman 40 filter + Teflon filter, 20–25 m ³ /day	Daily	Spectrophotometric, Nessler method	
Acidity					

Country: Austria		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Air					
Sulphur dioxide	All	Instrumental: UV-fluorescence	Hourly	UV-fluorescence	
Sulphur dioxide					
Nitrogen dioxide	All	Instrumental: Chemiluminescence	Daily		
Nitric acid					
Ammonia					
Ozone	All	UV-monitor	Hourly	UV-absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	AT02 AT05, AT48	High Volume Sampler, glass fibre filters with organic binder, 720 m ³ /day, EN 12341	Daily Every 3 rd day	Micro balance	
PM _{2.5}	AT02	High Volume Sampler, glass fibre filters with organic binder, 720 m ³ /day, EN 14907	Daily	Micro balance	
PM ₁	AT02	High Volume Sampler, glass fibre filters with organic binder, 720 m ³ /day, weighing acc. EN 12341	Every 3 rd day	Micro balance	
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Belarus		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount		Bulk			
Precipitation amount, official gauge					
Sulphate		Bulk	Daily	Turbidimetry	
Nitrate		Bulk	Daily	Photometry	
Ammonium		Bulk	Daily	Photometry with Nessler reactive	
Magnesium		Bulk	Daily	AAS	
Sodium		Bulk	Daily	AAS	
Chloride		Bulk	Daily	Mercurimetric	
Calcium		Bulk	Daily	AAS	
Potassium		Bulk	Daily	AAS	
Conductivity		Bulk	Daily	Conductivity meter	
pH		Bulk	Daily	pH meter	
Air					
Sulphur dioxide					
Sulphur dioxide					
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Belgium		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Air					
Sulphur dioxide		Instrumental: UV-fluorescence	Half hourly	UV-fluorescence	
Sulphur dioxide					
Nitrogen dioxide		Instrumental: Chemiluminescence	Half hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone		Instrumental: UV monitor	Half hourly	UV absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀		Instrumental: Beta absorption	Two-hourly	Beta absorption	
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Croatia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All				
Precipitation amount, official gauge		Rain gauge	Daily		
Sulphate	All	Bulk	Daily	Ion chromatography	
Nitrate	All	Bulk	Daily	Ion chromatography	
Ammonium	All	Bulk	Daily	Ion chromatography	
Magnesium	All	Bulk	Daily	Ion chromatography	
Sodium	All	Bulk	Daily	Ion chromatography	
Chloride	All	Bulk	Daily	Ion chromatography	
Calcium	All	Bulk	Daily	Ion chromatography	
Potassium	All	Bulk	Daily	Ion chromatography	
Conductivity	All	Bulk	Daily	Conductivity meter	
pH	All	Bulk	Daily	pH meter	
Air					
Sulphur dioxide					
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Cyprus		Main components and ozone - EMEP		Year: 2013
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount				
Precipitation amount, official gauge				
Sulphate				
Nitrate				
Ammonium				
Magnesium				
Sodium				
Chloride				
Calcium				
Potassium				
Conductivity				
pH				
Air				
Sulphur dioxide	CY02	Instrumental: UV-fluorescence	Hourly	UV-fluorescence
Nitrogen dioxide	CY02	Instrumental: Chemiluminescence	Hourly	Chemiluminescence
Nitric acid				
Ammonia				
Ozone	CY02	UV-monitor	Hourly	UV absorption
Sulphate PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Nitrate PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Ammonium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Sodium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Calcium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Magnesium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Potassium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
Chloride PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography-(ICS-DIONEX 5000)
PM ₁₀	CY02	High volume sampler	Daily	
PM _{2.5}	CY	Low volume sampler	Daily	
PM ₁				
Suspended particulate matter				
Sum of nitric acid and nitrate				
Sum of ammonia and ammonium				

THE LABORATORY PERFORMING THE ANALYSES ON PM_{2.5} IS:

Environmental Chemistry Observations Laboratory (ECOL)
 Energy, Environment and Water Research Center (EEWRC)
 The Cyprus Institute (CyI)

Country: Czech Republic		Main components and ozone - EMEP	Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount, official gauge	All	Meteorological Station	Daily	Automatically gauge
Fluoride	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Ion Chromatography
Sulphate	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Ion chromatography
Nitrate	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Ion chromatography
Ammonium	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Spectrophotometric, Indophenol method, SFA, FIA
Magnesium	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	F-AAS
Sodium	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	F-AAS
Chloride	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Ion chromatography
Calcium	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	F-AAS
Potassium	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	F-AAS
Conductivity	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	Conductivity electrode
pH	All	Wet-only (daily) at CZ03, (weekly) at CZ01,CZ05	Daily, weekly	pH electrode
Air				
Sulphur dioxide	CZ3,CZ5	KOH-impregnated Whatman 40 filter 47 mm, 20 m ³ /day	Daily	Ion chromatography
Sulphur dioxide	CZ3	UV-fluorescence - monitor	Hourly	UV-fluorescence
Carbon monoxide	CZ3	IR corel. absorption spectrometry	Hourly	IRABS, corel. absorption spectrometry
Nitrogen dioxide	CZ3	Chemiluminescence - monitor	Hourly	Chemiluminescence
Nitrogen monoxide	CZ3	Chemiluminescence - monitor	Hourly	Chemiluminescence
Sum of nitric acid and nitrate	CZ3,CZ5	Whatman filter + KOH-impregnated Whatman 40 filter 47 mm, 20 m ³ /day	Daily	Ion Chromatography
Sum of ammonia and ammonium	All	Whatman filter + Citric acid impregnated Whatman 40 filter 47 mm, 20 m ³ /day	Daily	Spectrophotometric, Indophenol method, SFA
Ozone	All	UV-monitor	Hourly	UV-absorption
Sulphate	All	Whatman 40, filter 47 mm, 20 m ³ /day	Daily	Ion chromatography
Sodium	CZ3	Filter 47 mm, 55 m ³ /day	Weekly	Ion chromatography
Calcium	CZ3	Filter 47 mm, 55 m ³ /day	Weekly	Ion chromatography
Magnesium	CZ3	Filter 47 mm, 55 m ³ /day	Weekly	Ion chromatography
Potassium	CZ3	Filter 47 mm, 55 m ³ /day	Weekly	Ion chromatography
PM ₁₀	All	Filter 47 mm, 55 m ³ /day	Every 2 nd day	Gravimetric
PM ₁₀	CZ3	Beta absorption - monitor	Hourly	Radiometry-beta absorption
PM _{2,5}	CZ3	Beta absorption - monitor	Hourly	Radiometry-beta absorption
PM _{2,5}	CZ3	Filter 47 mm, 55 m ³ /day	Every 2 nd day	Gravimetric

Country: Denmark		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	DK05, DK08, DK22, DK31	Wet-only	Two-weekly		
Precipitation amount, official gauge					
Sulphate	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Ion chromatography	
Nitrate	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Ion chromatography	
Ammonium	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	ISO 11732 CFA (continuously flow analysis) and spectrophotometric detection	
Magnesium	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Atomic absorption method	
Sodium	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Atomic emission method	
Chloride	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Ion chromatography	
Calcium	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Atomic absorption method	
Potassium	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Atomic emission method	
Conductivity	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	Conductivity meter	
pH	DK05, DK08, DK22, DK31	Wet-only	Two-weekly	pH meter	
Air					
Sulphur dioxide	DK05, DK08, DK22, DK31	KOH-impregnated Whatman 41 filters, 58 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	DK05	Monitor	Hourly	Chemiluminescence	
Nitrogen oxide	DK08	Monitor	Hourly	Chemiluminescence	
Nitric acid					
Ammonia	DK03, DK05, DK08, DK31	Oxalic acid impregnated Whatman 41, 58 m ³ /day	Daily	ISO 11732 CFA (continuously flow analysis) and spectrophotometric detection	
Ozone	DK05, DK31, DK41	UV-monitor	Hourly	UV-absorption	
Sulphate	DK03, DK05, DK08, DK31	Millipore RAWP 1.2 µm, 58 m ³ /day	Daily	Ion chromatography	
Nitrate					
Ammonium	DK03, DK05, DK08, DK31	Millipore RAWP 1.2 µm, 58 m ³ /day	Daily	ISO 11732 CFA (continuously flow analysis) and spectrophotometric detection	
Sodium	DK03, DK05, DK08, DK31	Millipore RAWP 1.2 µm, 58 m ³ /day	Daily	Atomic absorption method	
Calcium					
Magnesium					
Potassium					
Chloride	DK03, DK05, DK08, DK31	Millipore RAWP 1.2 µm, 58 m ³ /day		Atomic absorption method	
PM ₁₀	DK05	SM200	Daily	Beta absorption	
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate	DK03, DK05, DK08, DK31	Aerosol filter as for sulphate + KOH-impregnated Whatman 41, 58 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium				Replaced by separate measurements of ammonia and ammonium	

Country: Estonia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	Bulk	Weekly		
Precipitation amount, official gauge					
Sulphate	All	Bulk	Weekly	Ion chromatography	
Nitrate	All	Bulk	Weekly	Ion chromatography	
Ammonium	All	Bulk	Weekly	Spectrophotometric, Indophenol method	
Magnesium	All	Bulk	Weekly	Atomic absorption method	
Sodium	All	Bulk	Weekly	Atomic emission method, addition of caesium	
Chloride	All	Bulk	Weekly	Ion chromatography	
Calcium	All	Bulk	Weekly	Atomic absorption method, addition of lanthanum	
Potassium	All	Bulk	Weekly	Atomic emission method, addition of caesium	
Conductivity	All	Bulk	Weekly	Conductivity meter	
pH	All	Bulk	Weekly	pH meter	
Air					
Sulphur dioxide	All	Instrumental: UV fluorescence	Daily/Hourly	UV fluorescence	
Nitrogen dioxide	All	Instrumental: Chemiluminescence	Daily/Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	All	UV monitor	Daily/Hourly	UV absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	EE09	High Volume Sampler	Weekly	Gravimetric	
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Finland		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	NILU bulk sampler	Weekly		
Precipitation amount, official gauge					
Sulphate	All	NILU bulk sampler	Weekly	Ion chromatography	
Nitrate	All	NILU bulk sampler	Weekly	Ion chromatography	
Ammonium	All	NILU bulk sampler	Weekly	Ion chromatography	
Magnesium	All	NILU bulk sampler	Weekly	Ion chromatography	
Sodium	All	NILU bulk sampler	Weekly	Ion chromatography	
Chloride	All	NILU bulk sampler	Weekly	Ion chromatography	
Calcium	All	NILU bulk sampler	Weekly	Ion chromatography	
Potassium	All	NILU bulk sampler	Weekly	Ion chromatography	
Conductivity	All	NILU bulk sampler	Weekly	Conductivity meter	
pH	All	NILU bulk sampler	Weekly	pH meter	
Air					
Sulphur dioxide	All	NaOH-impregnated Whatman 40 filters, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Nitrogen dioxide	All	Instrumental: Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	All	UV-monitor	Hourly	UV-absorption	
Sulphate	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Nitrate					
Ammonium					
Sodium	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Calcium	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Magnesium	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Potassium	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Chloride	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate	All	Aerosol filter as for sulphate + NaOH impregnated Whatman 40 filter, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Sum of ammonia and ammonium	All	Aerosol filter as for sulphate + oxalic acid impregnated Whatman 40 filter, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	

1) Daily: FI09 and FI17 and FI36; Weekly: FI22 and FI37

Country: France		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily		
Precipitation amount, official gauge	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Bulk	Daily		
Sulphate	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Nitrate	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Ammonium	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Magnesium	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Sodium	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Chloride	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Calcium	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Potassium	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Ion chromatography	
Conductivity	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	Conductivity meter	
pH	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	FR09, FR13, FR15	KOH-impregnated Whatman 40 filter, 14.4 m ³ /day (Filterpack)	Daily, twice a week	Ion chromatography	
Nitrogen dioxide NO ₂ /NO/NO _x	FR09, FR13, FR15, FR30	Instrumental: Chemiluminescence, trace level	Hourly	Chemiluminescence	
Nitric acid	FR09, FR13, FR15	KOH-impregnated Whatman 40 filter, 14.4 m ³ /day (Filterpack)	Daily, twice a week	Ion chromatography	
Ammonia	FR09, FR13, FR15	Citric acid-impregnated Whatman 40 filter, 14.4 m ³ /day (Filterpack)	Daily, twice a week	Ion chromatography	
Ozone	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18, FR19, FR30	UV-monitor	Hourly	UV-absorption	
Sulphate	FR09, FR13, FR15	Teflon filter Pall Gelman Zefluor, 2 µm, 14.4 m ³ /day	Daily, twice a week	Ion chromatography	
Nitrate	FR09, FR13, FR15	Teflon filter Pall Gelman Zefluor, 2 µm, 14.4 m ³ /day	Daily, twice a week	Ion chromatography	
Ammonium	FR09, FR13, FR15	Teflon filter Pall Gelman Zefluor, 2 µm, 14.4 m ³ /day	Daily, twice a week	Ion chromatography	
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	FR09, FR10, FR13, FR14, FR15, FR18	TEOM FDMS	Hourly	TEOM FDMS	
PM _{2.5}	FR09, FR13, FR15, FR18	TEOM FDMS	Hourly	TEOM FDMS	
Suspended particulate matter					
Sum of nitric acid and nitrate	FR09, FR13, FR15	Teflon filter Pall Gelman Zefluor, 2 µm, 14.4 m ³ /day + KOH impregnated Whatman 40, 14.4 m ³ /day (Filterpack)	Daily, twice a week	Ion chromatography	
Sum of ammonia and ammonium	FR09, FR13, FR15	Teflon filter Pall Gelman Zefluor, 2 µm, 14.4 m ³ /day + citric acid impregnated Whatman 40, 14.4 m ³ /day (Filterpack)	Daily, twice a week	Ion chromatography	

Country: Georgia		Main components and ozone - EMEP		Year: 2013
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount				
Precipitation amount, official gauge				
Sulphate				
Nitrate				
Ammonium				
Magnesium				
Sodium				
Chloride				
Calcium				
Potassium				
Conductivity				
pH				
Air				
Sulphur dioxide	GE01		24h every 3 days	
Nitrogen dioxide				
Nitric acid				
Ammonia	GE01		24h every 3 days	
Ozone				
Sulphate	GE01		24h every 3 days	IC
Nitrate	GE01		24h every 3 days	IC
Ammonium	GE01		24h every 3 days	Spectrophotometry
Sodium				
Calcium				
Magnesium				
Potassium				
Chloride	GE01		24h every 3 days	IC
PM ₁₀				
PM _{2.5}				
PM ₁				
Suspended particulate matter				
Sum of nitric acid and nitrate	GE01		24h every 3 days	
Sum of ammonia and ammonium	GE01		24h every 3 days	

Country: Germany		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	By volume	
Precipitation amount, official gauge					
Sulphate	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Nitrate	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Ammonium	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Magnesium	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Sodium	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Chloride	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Calcium	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Potassium	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Ion chromatography	
Conductivity	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	Conductivity meter	
pH	DE01, DE02, DE03, DE04, DE05, DE07, DE08, DE09	Daily wet only at DE02, DE03 and DE07, weekly wet-only at the other sites	Daily / weekly	pH meter	
Air					
Sulphur dioxide	DE01, DE02, DE03, DE07, DE08, DE09	Monitor (trace level instrument)	Half hourly	UV fluorescence	
Nitrogen dioxide	DE01, DE02, DE03, DE07, DE08, DE09	NaJ-impregnated glass sinters, 0.7 m ³ /day	Daily	Flow injection analysis	
Nitric acid	DE02, DE07	KOH-impregnated Whatman 40 filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonia	DE02, DE07	Oxalic acid-impregnated Whatman 40 filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ozone	DE01, DE02, DE03, DE07, DE08, DE09	UV-monitor	Half hourly	UV-absorption	
Sulphate	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrate	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonium	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Sodium	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Calcium	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Magnesium	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Potassium	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
Chloride	DE02, DE07	Teflon filter, 22 m ³ /day (Filterpack)	Daily	Ion chromatography	
PM ₁₀	DE01, DE02, DE03, DE07, DE08, DE09	Digitel High Volume Sampler DHA 80, glass fibre filters ø15 cm, Machery Nagel MN 85/90	Daily	Gravimetric by weight	
PM _{2.5}	DE02, DE03, DE07, DE08	Digitel High Volume Sampler DHA 80, glass fibre filters ø15 cm, Machery Nagel MN 85/90	Daily	Gravimetric by weight	
PM ₁	DE02	Digitel High Volume Sampler DHA 80, glass fibre filters ø15 cm, Machery Nagel MN 85/90	Daily	Gravimetric by weight	
Suspended particulate matter					
Sum of nitric acid and nitrate	DE02, DE07	Filter pack method	Daily	Ion chromatography	
Sum of ammonia and ammonium	DE02, DE07	Filter pack method	Daily	Ion chromatography	
Sulphate in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Nitrate in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Ammonium in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Sodium in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Calcium in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Magnesium in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Potassium in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Chloride in PM _{2.5}	DE01, DE02, DE03, DE07, DE08, DE09	Leckel Low Volume Sampler, 2.3 m ³ /day	Every 3 rd day	Ion chromatography	
Acidity					

Country: Greece		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Air					
Sulphur dioxide	GR01	Instrumental UV-fluorescence	Hourly	UV-fluorescence	
Nitrogen dioxide	GR01	Instrumental Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	GR01	UV-monitor	Hourly	UV-absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Hungary		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	HU02	Wet-only	Daily		
Precipitation amount, official gauge	HU02	Wet-only	Daily		
Sulphate	HU02	Wet-only	Daily	Ion chromatography	
Nitrate	HU02	Wet-only	Daily	Ion chromatography	
Ammonium	HU02	Wet-only	Daily	Spectrophotometric, Indophenol method	
Magnesium	HU02	Wet-only	Daily	Atomic absorption method (flame)	
Sodium	HU02	Wet-only	Daily	Atomic absorption method (flame)	
Chloride	HU02	Wet-only	Daily	Ion chromatography	
Calcium	HU02	Wet-only	Daily	Atomic absorption method (flame)	
Potassium	HU02	Wet-only	Daily	Atomic absorption method (flame)	
Conductivity	HU02	Wet-only	Daily	Conductivity meter	
pH	HU02	Wet-only	Daily	pH meter	
Acidity					
Lead	HU02	Wet-only	weekly	Atomic absorption method (furnace)	
Cadmium	HU02	Wet-only	weekly	Atomic absorption method (furnace)	
Air					
Sulphur dioxide	HU02	KOH-impregnated Whatman 40 filter, ~21 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	HU02	Iodide method (impregnated glass sinter), ~0.8 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid	HU02	KOH-impregnated Whatman 40 filter, ~21 m ³ /day	Daily	Ion chromatography	
Ammonia	HU02	Citric-acid impregnated Whatman 40 filter, ~21 m ³ /day	Daily	Spectrophotometric, Indophenol method	
Ozone	HU02	UV-monitor	Hourly	UV-absorption	
Sulphate	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Ion chromatography	
Nitrate	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Ion chromatography	
Ammonium	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Spectrophotometric, Indophenol method	
Sodium	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Atomic absorption method (flame)	
Calcium	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Atomic absorption method (flame)	
Magnesium	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Atomic absorption method (flame)	
Potassium	HU02	Teflon filter, Millipore Fluoropore, 1 µm, ~21 m ³ /day	Daily	Atomic absorption method (flame)	
Chloride					
PM ₁₀ mass	HU02	PM ₁₀ -monitor	Hourly	Beta-ray-absorption	
PM _{2.5} mass	HU02	DHA-80 high volume sampler	Daily	Gravimetry	
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Iceland		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	IS02	NILU bulk sampler	Daily	By volume	
Precipitation amount, official gauge					
Sulphate	IS02	NILU bulk sampler	Daily	Spectrophotometry by FIA	
Nitrate	IS02	NILU bulk sampler	Daily	Spectrophotometry by FIA	
Ammonium					
Magnesium	IS02	NILU bulk sampler	Daily	ICP-AES	
Sodium	IS02	NILU bulk sampler	Daily	ICP-AES	
Chloride	IS02	NILU bulk sampler	Daily	ICP-AES	
Calcium	IS02	NILU bulk sampler	Daily	ICP-AES	
Potassium	IS02	NILU bulk sampler	Daily	ICP-AES	
Conductivity	IS02	NILU bulk sampler	Daily	Conductivity meter	
pH	IS02	NILU bulk sampler	Daily	pH meter	
Acidity					
Air					
Sulphur dioxide	IS02	KOH impregnated Whatman 40 filter, 30 m ³ /day	Daily	ICP-AES	
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
Nitrate					
Ammonium					
Sodium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
Calcium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
Magnesium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
Potassium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
Chloride	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-AES	
PM ₁₀					
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Ireland: IE01 (lab.: Met Éireann)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	IE01	Wet-only	Daily		
Precipitation amount, official gauge	IE01	Rain gauge	Daily		
Sulphate	IE01	Wet-only	Daily	Ion chromatography	
Nitrate	IE01	Wet-only	Daily	Ion chromatography	
Ammonium	IE01	Wet-only	Daily	Ion chromatography	
Magnesium	IE01	Wet-only	Daily	Ion chromatography	
Sodium	IE01	Wet-only	Daily	Ion chromatography	
Chloride	IE01	Wet-only	Daily	Ion chromatography	
Calcium	IE01	Wet-only	Daily	Ion chromatography	
Potassium	IE01	Wet-only	Daily	Ion chromatography	
Conductivity	IE01	Wet-only	Daily	Conductivity meter	
pH	IE01	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	IE01	KOH-impregnated Whatman 40 filter, 20-25 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	IE01	NaI method (glass sinter) 0.7 m ³ /day	Daily	Spectrophotometric, EMEP Manual 4.11	
Nitric acid					
Ammonia					
Ozone					
Sulphate	IE01	Teflon filter, PALL Zefluor 2 µm, 47 mm diameter, 20-25 m ³ /day	Daily	Ion chromatography	
Nitrate					
Ammonium					
Sodium	IE01	Teflon filter, PALL Zefluor 2 µm, 47 mm diameter, 20-25 m ³ /day	Daily	Ion chromatography	
Calcium	IE01	Teflon filter, PALL Zefluor 2 µm, 47 mm diameter, 20-25 m ³ /day	Daily	Ion chromatography	
Magnesium	IE01	Teflon filter, PALL Zefluor 2 µm, 47 mm diameter, 20-25 m ³ /day	Daily	Ion chromatography	
Potassium	IE01	Teflon filter, PALL Zefluor 2 µm, 47 mm diameter, 20-25 m ³ /day	Daily	Ion chromatography	
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate	IE01	Aerosol filter as for sulphate + KOH impregnated filter as for SO ₂ , 20-25 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	IE01	Aerosol filter as for sulphate + citric acid impregnated filter, 20-25 m ³ /day	Daily	Ion chromatography	

Country: Ireland: (lab.: Met Éireann)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	IE05, IE07, IE09	Wet-only	Daily		
Precipitation amount, official gauge					
Sulphate	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Nitrate	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Ammonium	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Magnesium	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Sodium	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Chloride	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Calcium	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Potassium	IE05, IE07, IE09	Wet-only	Daily	Ion chromatography	
Conductivity	IE05, IE07, IE09	Wet-only	Daily	Conductivity meter	
pH	IE05, IE07, IE09	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide					
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Nitrate	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Ammonium	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Sodium	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Calcium	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Magnesium	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Potassium	IE05, IE06, IE08	Whatman 41 filters, 1441 150, 720 m ³ /day	Daily	Ion chromatography	
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Italy: IT01 (lab.: CNR)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	IT01	Wet-only	Daily		
Precipitation amount, official gauge					
Sulphate	IT01	Wet-only	Daily	Ion chromatography	
Nitrate	IT01	Wet-only	Daily	Ion chromatography	
Ammonium	IT01	Wet-only	Daily	Ion chromatography	
Magnesium	IT01	Wet-only	Daily	Ion chromatography	
Sodium	IT01	Wet-only	Daily	Ion chromatography	
Chloride	IT01	Wet-only	Daily	Ion chromatography	
Calcium	IT01	Wet-only	Daily	Ion chromatography	
Potassium	IT01	Wet-only	Daily	Ion chromatography	
Conductivity	IT01	Wet-only	Daily	Conductivity meter	
pH	IT01	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	IT01	Diffusion tubes NaCl and Na ₂ CO ₃ + glycerine, 17 m ³ /day	Once a week	Ion chromatography	
Nitrogen dioxide	IT01	Instrumental: Chemiluminescence	Daily	Chemiluminescence	
Nitric acid	IT01	Diffusion tubes NaCl, 17 m ³ /day	Once a week	Ion chromatography	
Ammonia	IT01	Diffusion tubes H ₃ PO ₃ , 17 m ³ /day	Once a week	Ion chromatography	
Ozone	IT01	UV-monitor	Hourly	UV-absorption	
Sulphate	IT01	Nylasorb filter, 17 m ³ /day	Once a week	Ion chromatography	
Nitrate	IT01	Nylasorb filter, 17 m ³ /day	Once a week	Ion chromatography	
Ammonium	IT01	Phosphorous acid impregnated filter, 17 m ³ /day	Once a week	Ion chromatography	
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	IT01	Beta gauge monitor 24 m ³ /day	Daily	Beta gauge monitor	
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Italy, IT04 (lab.: JRC)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	IT04	Wet-only	Daily	Sampler gauge	
Precipitation amount, official gauge					
Sulphate	IT04	Wet-only	Daily	Ion chromatography	
Nitrate	IT04	Wet-only	Daily	Ion chromatography	
Ammonium	IT04	Wet-only	Daily	Ion chromatography	
Magnesium	IT04	Wet-only	Daily	Ion chromatography	
Sodium	IT04	Wet-only	Daily	Ion chromatography	
Chloride	IT04	Wet-only	Daily	Ion chromatography	
Calcium	IT04	Wet-only	Daily	Ion chromatography	
Potassium	IT04	Wet-only	Daily	Ion chromatography	
Conductivity	IT04	Wet-only	Daily	Conductivity meter	
pH	IT04	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	IT04	Instrumental: UV-fluorescence	Daily	UV-fluorescence	
Nitrogen dioxide	IT04	Instrumental: Chemiluminescence	Daily	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	IT04	UV-monitor	Hourly	UV-absorption	
Sulphate	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Nitrate	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Ammonium	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Sodium	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Calcium	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Magnesium	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Potassium	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
Chloride	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Ion chromatography	
PM ₁₀					
PM _{2.5}	IT04	PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Weighing at 20% RH	
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
EC/OC	IT04	AirMonitors Denuder, PALL Life Sciences QFF (type TISSUEQUARTZ 2500QAT-UP), 24 m ³ /day	Daily	Thermo optical, EUSAAR 2 protocol	

Country: Kazakhstan		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Acidity					
Air					
Sulphur dioxide					
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate PM ₁₀	KZ01		Daily	IC	
Nitrate PM ₁₀	KZ01		Daily	IC	
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride PM ₁₀	KZ01		Daily	IC	
PM ₁₀					
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Latvia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	LV10	Wet-only	Daily	Gravimetric	
Precipitation amount, official gauge	LV10	Meteorological station	Daily	Gauge, Tretjakov type	
Sulphate	LV10	Wet-only	Daily	Ion chromatography	
Nitrate	LV10	Wet-only	Daily	Ion chromatography	
Ammonium	LV10	Wet-only	Daily	Spectrophotometric, Indophenol method	
Magnesium	LV10	Wet-only	Daily	ICP-MS	
Sodium	LV10	Wet-only	Daily	ICP-MS	
Chloride	LV10	Wet-only	Daily	Ion chromatography	
Calcium	LV10	Wet-only	Daily	ICP-MS	
Potassium	LV10	Wet-only	Daily	ICP-MS	
Conductivity	LV10	Wet-only	Daily	Conductivity meter	
pH	LV10	Wet-only	Daily	pH meter	
Acidity					
Air					
Sulphur dioxide	LV10	KOH-impregnated Whatman 47 filter, 16-23 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	LV10	NaI-impregnated glass sinters, 03-0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid	LV10	KOH-impregnated Whatman 47 filter, 16-23 m ³ /day	Daily	Ion chromatography	
Ammonia	LV10	Oxalic acid impregnated filter, 16-23 m ³ /day	Daily	Spectrophotometric, Indophenol method	
O ₃	LV10, LV16	UV-monitor	Hourly	UV-absorption	
Sulphate	LV10	Whatman 47 filter, 16-23 m ³ /day	Daily	Ion chromatography	
Nitrate	LV10	Whatman 47 filter, 16-23 m ³ /day	Daily	Ion chromatography	
Ammonium	LV10	Whatman 47 filter, 16-23 m ³ /day	Daily	Spectrophotometric, Indophenol method	
Sulphate PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Nitrate PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Ammonium PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Sodium PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Calcium PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Magnesium PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Potassium PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
Chloride PM _{2.5}	LV10	Teflon filter, 386.4 m ³ /weekly	Weekly	Ion chromatography	
PM ₁₀	LV10	Low volume sampler, 2.3 m ³ /h, Teflon filter, 47 mm	Daily	Beta absorption	
PM _{2.5}	LV10	Low volume sampler, 2.3 m ³ /h, Teflon filter, 47 mm	Daily	Beta absorption	
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate	LV10	KOH-impregnated Whatman 47 filter + Whatman 47 filter, 16-23 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	LV10	Oxalic acid impregnated filter + Whatman 47 filter, 16-23 m ³ /day	Daily	Spectrophotometric, Indophenol method	
Acidity					

Country: Lithuania		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	LT15	Wet-only	Daily	By weight	
Precipitation amount, official gauge					
Sulphate	LT15	Wet-only	Daily	Ion chromatography	
Nitrate	LT15	Wet-only	Daily	Ion chromatography	
Ammonium	LT15	Wet-only	Daily	Spectrophotometric, Indophenol method	
Magnesium					
Sodium	LT15	Wet-only	Daily	Atomic emission method	
Chloride	LT15	Wet-only	Daily	Ion chromatography	
Calcium	LT15	Wet-only	Daily	Atomic absorption method	
Potassium	LT15	Wet-only	Daily	Atomic emission method	
Conductivity	LT15	Wet-only	Daily	Conductivity meter	
pH	LT15	Wet-only	Daily	pH meter	
Acidity					
Air					
Sulphur dioxide	LT15	KOH-impregnated Whatman 40 filter, 20 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	LT15	Nal-impregnated glass sinters, 0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid					
Ammonia					
Ozone	LT15	UV-monitor	Hourly	UV-absorption	
Sulphate	LT15	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate	LT15	Aerosol filter as for sulphate + KOH impregnated Whatman 40 filter as for SO ₂ , 20 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	LT15	Aerosol filter as for sulphate + oxalic acid impregnated Whatman 40 filter, 20 m ³ /day	Daily	Spectrophotometric, Indophenol method	
Acidity					

Country: Macedonia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Air					
Sulphur dioxide	MK07	Instrumental: UV-fluorescence	Hourly	UV-fluorescence	
Nitrogen dioxide	MK07	Instrumental: Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	MK07	Instrumental: UV-Monitor	Hourly	UV-absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	MK07	Instrumental: beta absorption	Hourly	Beta absorption	
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Moldova		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	MD13	NILU bulk sampler	Daily	By volume	
Precipitation amount, official gauge					
Sulphate	MD13	NILU bulk sampler	Daily	Ion chromatography	
Nitrate	MD13	NILU bulk sampler	Daily	Ion chromatography	
Ammonium	MD13	NILU bulk sampler	Daily	Ion chromatography	
Magnesium	MD13	NILU bulk sampler	Daily	Ion chromatography	
Sodium	MD13	NILU bulk sampler	Daily	Ion chromatography	
Chloride	MD13	NILU bulk sampler	Daily	Ion chromatography	
Calcium	MD13	NILU bulk sampler	Daily	Ion chromatography	
Potassium	MD13	NILU bulk sampler	Daily	Ion chromatography	
Conductivity	MD13	NILU bulk sampler	Daily	Conductivity meter	
pH	MD13	NILU bulk sampler	Daily	pH meter; potentiometric, glass electrode	
Air					
Sulphur dioxide	MD13	KOH-impregnated Whatman 40 filter 25 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Nitrate	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Ammonium	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Sodium	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Calcium	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Magnesium	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Potassium	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Chloride	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
PM ₁₀	MD13	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate	MD13	Aerosol filter as for sulphate + KOH impregnated filter as for SO ₂ , 25 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	MD13	Aerosol filter as for sulphate + oxalic acid impregnated filter, 25 m ³ /day	Daily	Spectrophotometric, Indophenol method and IC	
EC/OC					

Country: Montenegro		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	Zabljak	Wet-only	daily		
Precipitation amount, official gauge	Zabljak	Meteorological station	daily		
Sulphate	Zabljak	Wet-only	daily	Spectrophotometry	
Nitrate	Zabljak	Wet-only	daily	Spectrophotometry	
Ammonium	Zabljak	Wet-only	daily	Spectrophotometry	
Magnesium	Zabljak	Wet-only	daily	By calculation	
Sodium	Zabljak	Wet-only	daily	Flame photometry	
Chloride	Zabljak	Wet-only	daily	Titrimetric method	
Calcium	Zabljak	Wet-only	daily	Titrimetric method	
Potassium	Zabljak	Wet-only	daily	Flame photometry	
Conductivity	Zabljak	Wet-only	daily	Conductivity meter	
pH	Zabljak	Wet-only	daily	pH meter, glass electrode	
Acidity	Zabljak	Wet-only	daily	Titrimetric method	
Air					
Sulphur dioxide	Zabljak	Absorbing solution	daily	Spectrophotometry	
Nitrogen dioxide	Zabljak	Absorbing solution	daily	Spectrophotometry	
Nitric acid					
Ammonia					
Ozone					
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: The Netherlands		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	NL091	Wet-only	Daily		
Precipitation amount, official gauge					
Sulphate	NL091	Wet-only	Daily ¹	Ion chromatography	
Nitrate	NL091	Wet-only	Daily ¹	Ion chromatography	
Ammonium	NL091	Wet-only	Daily ¹	CFA ²	
Magnesium	NL091	Wet-only	Daily ¹	HR-ICP/MS ³	
Sodium	NL091	Wet-only	Daily ¹	HR-ICP/MS	
Chloride	NL091	Wet-only	Daily ¹	Ion chromatography	
Calcium	NL091	Wet-only	Daily ¹	HR-ICP/MS	
Potassium	NL091	Wet-only	Daily ¹	HR-ICP/MS	
Conductivity	NL091	Wet-only	Daily ¹	Conductivity meter	
pH	NL091	Wet-only	Daily ¹	pH meter	
Acidity	NL091	Wet-only	Daily ¹	Titration	
Air					
Sulphur dioxide	NL07,NL09,.,NL91,NL644R	Instrumental: UV-fluorescence	Hourly	UV-fluorescence	
Nitrogen dioxide	NL07,NL09,NL10,NL91,NL644R	Instrumental: Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid					
Ammonia	NL07,NL91	Absorption in NaHSO ₄ , membrane separation, conductivity measurement	Hourly	Conductivity	
Ozone	NL07,NL09,NL10, NL91,NL644R	UV-monitor	Hourly	UV-absorption	
Sulphate	.,NL10,NL91	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	Ion chromatography	
Nitrate	.,NL10,NL91	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	Ion chromatography	
Ammonium	.,NL10,NL91	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	CFA ²	
Sodium	NL08, NL09, NL10	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 27.6 m ³ /day	Every other day	HR-ICP/MS	
Calcium	NL08, NL09, NL10	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 27.6 m ³ /day	Every other day	HR-ICP/MS	
Magnesium	NL08, NL09, NL10	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 27.6 m ³ /day	Every other day	HR-ICP/MS	
Potassium					
Chloride	.,NL10,NL91	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	Ion chromatography	
PM ₁₀	NL07,NL09,NL10,NL91,NL644R	Instrumental: beta absorption	Hourly	Beta absorption	
PM _{2.5}	NL09,NL10,.,NL91.NL644R	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	Gravimetric	
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

¹ precipitation measurements on daily basis are only carried out on station NL0091; On both EMEP stations (NL0091 and NL0010) precipitation is carried out on a 4 weekly basis.

² continuous flow analysis

³ inductively coupled plasma/mass spectrometry

Country: Norway		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	NILU bulk sampler	Daily	By volume	
Precipitation amount, official gauge					
Sulphate	All	NILU bulk sampler	Daily	Ion chromatography	
Nitrate	All	NILU bulk sampler	Daily	Ion chromatography	
Ammonium	All	NILU bulk sampler	Daily	Ion chromatography	
Magnesium	All	NILU bulk sampler	Daily	Ion chromatography	
Sodium	All	NILU bulk sampler	Daily	Ion chromatography	
Chloride	All	NILU bulk sampler	Daily	Ion chromatography	
Calcium	All	NILU bulk sampler	Daily	Ion chromatography	
Potassium	All	NILU bulk sampler	Daily	Ion chromatography	
Conductivity	All	NILU bulk sampler	Daily	Conductivity meter	
pH	All	NILU bulk sampler	Daily	pH meter; potentiometric, glass electrode	
Air					
Sulphur dioxide	All	KOH-impregnated Whatman 40 filter 25 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	All	NaI-impregnated glass sinters, 0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid					
Ammonia					
Ozone	All	UV-monitor	Hourly	UV-absorption	
Sulphate	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Nitrate	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Ammonium	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Sodium	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Calcium	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Magnesium	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Potassium	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
Chloride	All	Teflon filter, Gelman Zefluor 2 µm, 25 m ³ /day	Daily	Ion chromatography	
PM ₁₀	NO01	KleinfILTERGERÄT Whatman QM-A 47 mm	6+1	by weight, RH 50%	
PM _{2.5}	NO01	KleinfILTERGERÄT Whatman QM-A 47 mm	6+1	by weight, RH 50%	
PM ₁	NO01	KleinfILTERGERÄT Whatman QM-A 47 mm	6+1	by weight, RH 50%	
Suspended particulate matter					
Sum of nitric acid and nitrate	All	Aerosol filter as for sulphate + KOH impregnated filter as for SO ₂ , 25 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	All	Aerosol filter as for sulphate + oxalic acid impregnated filter, 25 m ³ /day	Daily	Spectrophotometric, Indophenol method and IC	
EC/OC	NO01	KleinfILTERGERÄT Whatman QM-A 47 mm, 55 m ³ /day	6+1	Thermal optical transmission	

Country: Poland: PL02, PL03, PL04 (lab. IMWM)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	Bulk	Daily		
Precipitation amount, official gauge					
Sulphate	All	Bulk	Daily	Ion chromatography	
Nitrate	All	Bulk	Daily	Ion chromatography	
Ammonium	All	Bulk	Daily	Spectrophotometric, Chloramin T	
Magnesium	All	Bulk	Daily	Atomic absorption method	
Sodium	All	Bulk	Daily	Atomic absorption method	
Chloride	All	Bulk	Daily	Ion chromatography	
Calcium	All	Bulk	Daily	Atomic absorption method	
Potassium	All	Bulk	Daily	Atomic absorption method	
Conductivity	All	Bulk	Daily	Conductivity meter	
pH	All	Bulk	Daily	pH meter	
Air					
Sulphur dioxide	All	KOH-impregnated Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Thorin	
Nitrogen dioxide	All	Absorbing solution TGS, 0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid					
Ammonia					
Ozone	All	UV-monitor	Hourly	UV-absorption	
Sulphate	All	Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Thorin	
Nitrate	All	Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Spectrophotometric, Griess after hydrazine reduction	
Ammonium	All	Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Spectrophotometric, Chloramin T	
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate	All	NaF impregnated Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Spectrophotometric, Griess after hydrazine reduction	
Sum of ammonia and ammonium	All	Oxalic acid impregnated Whatman 40 filter, 3.5-4.2 m ³ /day	Daily	Spectrophotometric, Chloramin T	

Country: Poland: PL05 (lab. IEP-NRI)		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	PL05	Wet-only	Daily	By weight	
Precipitation amount, official gauge	PL05	Total	Daily	Standard rain gauge	
Sulphate	PL05	Wet-only	Daily	Capillary Electrophoresis	
Nitrate	PL05	Wet-only	Daily	Capillary Electrophoresis	
Ammonium	PL05	Wet-only	Daily	Spectrophotometric, Indophenol method	
Magnesium	PL05	Wet-only	Daily	Plasma emission spectrometry	
Sodium	PL05	Wet-only	Daily	Plasma emission spectrometry	
Chloride	PL05	Wet-only	Daily	Capillary Electrophoresis	
Calcium	PL05	Wet-only	Daily	Plasma emission spectrometry	
Potassium	PL05	Wet-only	Daily	Plasma emission spectrometry	
Conductivity	PL05	Wet-only	Daily	Conductivity meter	
pH	PL05	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	PL05	KOH-impregnated Whatman 40 filter, 16 m ³ /day	Daily	Capillary Electrophoresis	
Nitrogen dioxide	PL05	Iodide method (impregnated glass sinter), 0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid					
Ammonia					
Ozone	PL05	UV-monitor	Hourly	UV-absorption	
Sulphate	PL05	Teflon filter PALL Zefluor 2 µm, 16 m ³ /day	Daily	Capillary Electrophoresis	
Sulphate	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Ion chromatography	
Nitrate	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Ion chromatography	
Ammonium	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Ion chromatography	
Sodium	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Plasma emission spectrometry	
Calcium	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Plasma emission spectrometry	
Magnesium	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Plasma emission spectrometry	
Potassium	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Plasma emission spectrometry	
Chloride	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily/Weekly (anal.)	Ion chromatography	
EC/OC	PL05	QMA Whatman filter, 750 m ³ /day (PM _{2,5})	Daily	Thermo optical	
PM ₁₀	PL05	High Volume Sampler (750 m ³ /day)	Daily	By weight	
PM _{2,5}	PL05	High Volume Sampler (750 m ³ /day)	Daily	By weight	
Suspended particulate matter					
Sum of nitric acid and nitrate	PL05	Aerosol Teflon filter PALL Zefluor 2 µm + KOH impregnated Whatman 40 filter, 16 m ³ /day	Daily	Capillary Electrophoresis	
Sum of ammonia and ammonium	PL05	Aerosol Teflon filter PALL Zefluor 2 µm + Oxalic acid impregnated Whatman 40 filter, 16 m ³ /day	Daily	Spectrophotometric, Indophenol method	

Country: Romania		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Acidity					
Air					
Sulphur dioxide	EM-3 RO0008R	Instrumental: UV-fluorescence monitor	Hourly	UV-fluorescence	
Nitrogen dioxide	EM-3 RO0008R	Instrumental: Chemiluminescence monitor	Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
Ozone	EM-3 RO0008R	Instrumental:UV-monitor	Hourly	UV-absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	EM-3 RO0008R	Low volume sampler 2,3m ³ /hour	Daily	Gravimetric	
PM _{2.5}					
PM ₁					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Russian Federation		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	Bulk	Daily		
Precipitation amount, official gauge					
Sulphate	All	Bulk	Daily	Ion chromatography	
Nitrate	All	Bulk	Daily	Ion chromatography	
Ammonium	All	Bulk	Daily	Ion chromatography	
Magnesium	All	Bulk	Daily	Ion chromatography	
Sodium	All	Bulk	Daily	Ion chromatography	
Chloride	All	Bulk	Daily	Ion chromatography	
Calcium	All	Bulk	Daily	Ion chromatography	
Potassium	All	Bulk	Daily	Ion chromatography	
Conductivity	All	Bulk	Daily	Conductivity meter	
pH	All	Bulk	Daily	pH meter	
Air					
Sulphur dioxide	RU01	NaOH-impregnated Whatman 40 filter, 10-15 m ³ /day	Daily	UV-fluorescence	
Sulphur dioxide	RU16, RU18	NaOH-impregnated Whatman 40 filter, 10-15 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	All	Whatman 40 filter, 10-15 m ³ /day	Daily	Ion chromatography	
Nitrate	All	Whatman 40 filter, 10-15 m ³ /day	Daily	Ion chromatography	
Ammonium	All	Whatman 40 filter, 10-15 m ³ /day	Daily	Ion chromatography	
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Serbia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge	RS05	Meteorological rain gauge	Daily		
Sulphate	RS05	Bulk	Daily		Ion chromatography
Nitrate	RS05	Bulk	Daily		Ion chromatography
Ammonium	RS05	Bulk	Daily		Ion chromatography
Magnesium	RS05	Bulk	Daily		Ion chromatography
Sodium	RS05	Bulk	Daily		Ion chromatography
Chloride	RS05	Bulk	Daily		Ion chromatography
Calcium	RS05	Bulk	Daily		Ion chromatography
Potassium	RS05	Bulk	Daily		Ion chromatography
Conductivity	RS05	Bulk	Daily		Conductivity meter
pH	RS05	Bulk	Daily		pH meter
Air					
Sulphur dioxide	RS05	Absorbing solution H ₂ O ₂ , 1.5-2.5 m ³ /day	Daily		Thorin Spectrophotometric method
Nitrogen dioxide	RS05	Absorbing solution NaOH, 1.5-2.5 m ³ /day	Daily		Modified Griess Saltzman method
Nitric acid					
Ammonia					
Ozone					
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Slovakia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	SK02,SK04, SK06, SK07	Bulk: SK02: Wet-only: SK04, SK06, SK07	Daily		
Precipitation amount, official gauge	SK02,SK04, SK06, SK07	Reported from professional meteorological rain-gauges	Daily		
Sulphate	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Nitrate	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Ammonium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Magnesium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Sodium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Chloride	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Calcium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography – Dionex	
Potassium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Ion chromatography - Dionex	
Conductivity	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	Conductivity meter	
pH	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK04, SK06 Weekly:SK07	pH meter	
Air					
Sulphur dioxide	SK02,SK06	KOH-impregnated Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Nitrogen dioxide	SK02,SK06	Absorbing solution NaOH and guajacol, 0.5-0.6 m ³ /day	Daily	Spectrophotometric, Modified Salzman method	
Nitric acid	SK02,SK06	KOH-impregnated Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Ammonia	SK06	Citric acid-impregnated Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Ozone	SK02,SK04,SK06, SK07	UV-monitor	Hourly	UV-absorption	
Sulphate	SK02,SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Nitrate	SK02,SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex I	
Ammonium	SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Sodium	SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Calcium	SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Magnesium	SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Potassium	SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
Chloride	SK02,SK06	Whatman 40 filter, 26-30 m ³ /day	Daily	Ion chromatography - Dionex	
PM ₁₀	SK04, SK06, SK07	Partisol R&P, Sartorius nitrocellulose filter, 24 m ³ /day	Weekly	Gravimetric method	
PM _{2.5}					
Suspended particulate matter	SK02	Sartorius nitrocellulose filter, 26-30 m ³ /day, pump changed since sept. 35-40 m ³ /day	Weekly	Gravimetric method	
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Slovenia		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	SI08	Wet-only	Daily	By weight	
Precipitation amount, official gauge	SI08	Bulk	Daily		
Sulphate	SI08	Wet-only	Daily	Ion chromatography	
Nitrate	SI08	Wet-only	Daily	Ion chromatography	
Ammonium	SI08	Wet-only	Daily	Ion chromatography	
Magnesium	SI08	Wet-only	Daily	Ion chromatography	
Sodium	SI08	Wet-only	Daily	Ion chromatography	
Chloride	SI08	Wet-only	Daily	Ion chromatography	
Calcium	SI08	Wet-only	Daily	Ion chromatography	
Potassium	SI08	Wet-only	Daily	Ion chromatography	
Conductivity	SI08	Wet-only	Daily	Conductivity meter	
pH	SI08	Wet-only	Daily	pH meter	
Air					
Sulphur dioxide	SI08	KOH-impregnated Whatman 40 filter, 17-23 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	SI08	NaI-impregnated glass sinters, ~0.7 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid	SI08	KOH-impregnated Whatman 40 filter, 17-23 m ³ /day	Daily	Ion chromatography	
Ammonia	SI08	Oxalic acid impregnated Whatman 40 filter, 17-23 m ³ /day	Daily	Ion chromatography	
Carbon monoxide	SI32	Trace level analyzer	Hourly	ndir	
Sulphate	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Nitrate	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Ammonium	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Sodium	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Calcium	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Magnesium	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Potassium	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
Chloride	SI08	Teflon filter, Pall Zefluor 2 µm, 17-23 m ³ /day	Daily	Ion chromatography	
PM ₁₀	SI08	Low volume sampler, 2.3 m ³ /h, Quartz filter, 47 mm	Daily	Gravimetric method	
PM _{2.5}	SI08	Low volume sampler, 2.3 m ³ /h, Quartz filter, 47 mm	Daily	Gravimetric method	
Sum of nitric acid and nitrate	SI08	Teflon filter, Pall Zefluor 2 µm + KOH impregnated Whatman 40 filter, 17-23 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	SI08	Teflon filter, Pall Zefluor 2 µm + oxalic acid impregnated Whatman 40 filter, 17-23 m ³ /day	Daily	Ion chromatography	

Country: Spain		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation		All (except ES10)			
Precipitation amount	All	Wet-only	Daily		
Sulphate	All	Wet-only	Daily		Ion chromatography
Nitrate	All	Wet-only	Daily		Ion chromatography
Ammonium	All	Wet-only	Daily		Visible spectrophotometry, Indophenol method
Magnesium	All	Wet-only	Daily		Atomic absorption spectroscopy
Sodium	All	Wet-only	Daily		Atomic absorption spectroscopy
Chloride	All	Wet-only	Daily		Ion chromatography
Calcium	All	Wet-only	Daily		Atomic absorption spectroscopy
Potassium	All	Wet-only	Daily		Atomic absorption spectroscopy
Conductivity	All	Wet-only	Daily		Conductivity meter
pH	All	Wet-only	Daily		pH meter
Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn)	ES08, ES09	Wet-only	Weekly		ICP-mass
Air					
Sulphur dioxide	All	Instrumental: UV-fluorescence	Hourly		Pulsed UV-Fluorescence
Nitrogen dioxide/NO/NOx	All	Instrumental: Chemiluminescence	Hourly		Chemiluminescence
Ozone	All	UV-monitor	Hourly		UV-absorption
Ammonia	ES08, ES09 In 2012 ES01, ES07, ES11 and ES14 started measuring	Passive sampler	Weekly		Visible spectrophotometry, Indophenol method
PM ₁₀	All	High volume sampler	Daily		Gravimetric method
PM _{2.5}	ES01, ES06 (started in 2012), ES07, ES08, ES09, ES10, ES11, ES12, ES13, ES14, ES16	High volume sampler	Daily		Gravimetric method
Sulphate PM ₁₀	All	Whatman GF/A filter, 720 m ³ /day (ES07, ES08, ES10, ES11, ES12, S13, ES14, ES16) / 1632 m ³ /day (ES01, ES05, ES06, ES09, ES17)	Daily		Ion chromatography
Nitrate PM ₁₀	All	Whatman GF/A filter, 720 m ³ /day (ES07, ES08, ES10, ES11, ES12, S13, ES14, ES16) / 1632 m ³ /day (ES01, ES05, ES06, ES09, ES17)	Daily		Ion chromatography
Sum of nitric acid and nitrate	All	NaOH impregnated Whatman 40 filter, 35 m ³ /day	Daily		Ion chromatography
Sum of ammonia and ammonium	All	Oxalic acid impregnated Whatman 40 filter, 35 m ³ /day	Daily		Visible spectrophotometry, Indophenol method
Ammonium PM ₁₀	ES09	High volume sampler	24 hour, once a week		Visible spectrophotometry, Indophenol method
Sodium PM ₁₀	ES09	High volume sampler	Daily		Atomic absorption spectroscopy
Calcium PM ₁₀	ES09	High volume sampler	Daily		Atomic absorption spectroscopy
Magnesium PM ₁₀	ES09	High volume sampler	Daily		Atomic absorption spectroscopy
Potassium PM ₁₀	ES09	High volume sampler	Daily		Atomic absorption spectroscopy
Chloride PM ₁₀	ES09	High volume sampler	24 hour, once a week		Ion chromatography
Sulphate PM _{2.5}	ES09	High volume sampler	24 hour, once a week		Ion chromatography
Nitrate PM _{2.5}	ES09	High volume sampler	24 hour, once a week		Ion chromatography
Sodium PM _{2.5}	ES09	High volume sampler	24 hour, once a week		Atomic absorption spectroscopy

Country: Spain		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Calcium PM _{2.5}	ES09	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Magnesium PM _{2.5}	ES09	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Potassium PM _{2.5}	ES09	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Ammonium PM _{2.5}	ES09	High volume sampler	24 hour, once a week	Visible spectrophotometry, Indophenol method	
Chloride PM _{2.5}	ES09	High volume sampler	24 hour, once a week	Ion chromatography	
EC/OC PM _{2.5}	ES09	PM _{2.5} low volume sampler (55 m ³ /day)	24 hour, once a week	Thermal optical	

Country: Sweden		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12		
Precipitation amount, official gauge					
Sulphate	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Nitrate	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Ammonium	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Spectrophotometric, Flow injection analysis	
Magnesium	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Sodium	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Chloride	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Calcium	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Potassium	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Ion chromatography	
Conductivity	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	Conductivity meter	
pH	SE05, SE11, SE12, SE14	Wet-only	Daily: SE05, SE14; monthly: SE11, SE12	pH meter	
Air					
Sulphur dioxide	SE05, SE11, SE12, SE14	KOH-impregnated Whatman 40 filter, 20 m ³ /day	Daily	Ion chromatography	
Nitrogen dioxide	SE05, SE11, SE12, SE14	Nal-impregnated glass sinters, ~0.7 m ³ /day	Daily	Spectrophotometric, Flow Injection Analysis	
Nitric acid					
Ammonia					
Ozone	SE05, SE11, SE12, SE13, SE14, SE32, SE35, SE39	UV-monitor	Hourly	UV-absorption	
Sulphate	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
Nitrate					
Ammonium					
Sodium	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
Calcium	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
Magnesium	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
Potassium	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
Chloride	SE05, SE11, SE12, SE14	Teflon filter, Mitex membrane, 20 m ³ /day	Daily	Ion chromatography	
PM ₁₀	SE11, SE12	TEOM (Tapered Element Oscillating Microbalance	Hourly	TEOM	
PM _{2.5}	SE11, SE12	TEOM (Tapered Element Oscillating Microbalance	Hourly	TEOM	
PM ₁₀	SE05, SE14	IVL Sampler PModel S10	Daily	Gravimetric	
PM _{2.5}	SE05, SE14	IVL Sampler PModel S10	Daily	Gravimetric	
Sum of nitric acid and nitrate	SE05, SE11, SE12, SE14	Aerosol filter as for sulphate + KOH-impregnated Whatman 40 filter, 20 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	SE05, SE11, SE12, SE14	Aerosol filter as for sulphate + Oxalic acid impregnated Whatman 40 filter, 20 m ³ /day	Daily	Spectrophotometric, Flow injection analysis	

Country: Switzerland		Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	CH02, CH04, CH05	Wet-only	Weekly		
Precipitation amount, official gauge					
Sulphate	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Nitrate	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Ammonium	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Magnesium	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Sodium	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Chloride	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Calcium	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Potassium	CH02, CH04, CH05	Wet-only	Weekly	Ion chromatography	
Conductivity	CH02, CH04, CH05	Wet-only	Weekly	Conductivity meter	
pH	CH02, CH04, CH05	Wet-only	Weekly	pH meter	
Air					
Sulphur dioxide	CH01, CH02, CH05	Instrumental: UV-fluorescence	Daily	UV-fluorescence	
Nitrogen dioxide	CH01, CH02, CH05	Instrumental: Chemiluminescence-monitor	Daily	Chemiluminescence (photolytic converter)	
Nitrogen dioxide	CH03, CH04	Instrumental: Chemiluminescence-monitor	Daily	Chemiluminescence (molybdenum converter)	
Nitric acid	CH02, CH05	KOH impregnated Mini-Denuder / modified CEH DELTA-System, 0.5 m ³ /day	Biweekly	Ion chromatography	
Ammonia	CH02, CH05	Citric acid impregnated Mini-Denuder / modified CEH DELTA-System, 0.5 m ³ /day	Biweekly	Ion chromatography	
Ozone	All	Instrumental: UV-monitor	Hourly	UV-absorption	
Sulphate	CH02, CH05	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 720 m ³ /day	Daily	Ion chromatography	
Sulphate	CH01	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 1075 m ³ /day	Daily	Ion chromatography	
Nitrate	CH02, CH05	KOH impregnated Whatman 1 filter, Delrin filterholder / modified CEH DELTA-System, 0.5 m ³ /day	Biweekly	Ion chromatography	
Ammonium	CH02, CH05	Citric acid impregnated Sartorius 11306 filter, Delrin filterholder / modified CEH DELTA-System, 0.5 m ³ /day	Biweekly	Ion chromatography	
Sodium	CH02, CH05	Citric acid impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day			
Calcium	CH02, CH05	Citric acid impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day			
Magnesium	CH02, CH05	Citric acid impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day			
Potassium	CH02, CH05	Citric acid impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day			
Chloride					
PM ₁₀	CH01	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 1075 m ³ /day	Daily	Gravimetry	
PM ₁₀	CH02, CH03, CH04, CH05	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 720 m ³ /day	Daily	Gravimetry	
PM _{2.5}	CH02, CH05	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 720 m ³ /day	Daily	Gravimetry	
PM ₁	CH02	High Volume Samplers, Pallflex XP56 Tissuequartz 2500 QAT-UP, 720 m ³ /day	Daily	Gravimetry	
Suspended particulate matter					
Sum of nitric acid and nitrate	CH02, CH05	NaOH impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	CH02, CH05	Citric acid impregnated Whatman 40 filter / NILU filterholder, 18 m ³ /day	Daily	Ion chromatography	

Country: United Kingdom	Main components and ozone - EMEP		Year: 2013	
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Mass of water collected
Precipitation amount, official gauge				
Sulphate	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Nitrate	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Ammonium	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Magnesium	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Sodium	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Chloride	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Calcium	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Potassium	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Ion chromatography
Conductivity	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	Conductivity meter
pH	GB02, GB06, GB13, GB14, GB15	Bulk collector	Fortnightly	pH meter
Air				
Sulphur dioxide	GB36, GB37, GB38, GB43, GB45	Instrumental	Hourly	UV fluorescence
Sulphur dioxide	GB48	Instrumental	Hourly	Online IC
Nitrogen dioxide	14 sites	Instrumental	Hourly	Chemiluminescence
Nitrogen monoxide	14 sites	Instrumental	Hourly	Chemiluminescence
Nitric acid	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	Ion chromatography
Nitric Acid	GB48	Instrumental	Hourly	Online IC
Ammonia	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	Florria
Ammonia	GB48	Instrumental	Hourly	Online IC
Ozone	20 sites	UV-monitor	Hourly	UV-absorption
Sulphate	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	Ion chromatography
Nitrate	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	Ion chromatography
Ammonium	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
Sodium	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
Calcium	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
Magnesium	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
Potassium	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
Chloride	GB06, GB13, GB14, GB54	Delta sampler (low volume denuder and filter pack)	Monthly	
PM ₁₀	GB06, GB36, GB43, GB48	FDMS, Partisol and volatile correction model to TEOM data	Daily/hourly	
PM _{2.5}	GB36, GB48	FDMS and Partisol	Daily/hourly	
Ammonium PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Calcium PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Chloride PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Magnesium PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Nitrate PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Potassium PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Sodium PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Sulphate PM ₁₀ , PM _{2.5}	GB36, GB48	Instrumental	Hourly	Online IC
Suspended particulate matter				
Sum of nitric acid and nitrate				
Sum of ammonia and ammonium				

Annex 5

List of data reports

Data Report October 1977-September 1978.
EMEP/CCC-Report 3/80 by J. Schaug, H. Dovland, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1980.

Data Report October 1978-September 1979.
EMEP/CCC-Report 4/81 by J.E. Skjelmoen, H. Dovland, J. Schaug.
Lillestrøm, Norwegian Institute for Air Research, 1981.

Data Report October 1979-September 1980.
EMEP/CCC-Report 5/84 by J.E. Skjelmoen, J. Schaug.
Lillestrøm, Norwegian Institute for Air Research, 1984.

Data Report October 1980-September 1981.
EMEP/CCC-Report 6/84 by J.E. Skjelmoen, J. Schaug.
Lillestrøm, Norwegian Institute for Air Research, 1984.

Data Report October 1981-September 1982.
EMEP/CCC-Report 2/85 by K. Nodop, J.E. Skjelmoen, J. Schaug.
Lillestrøm, Norwegian Institute for Air Research, 1985.

Data Report October 1982-December 1982.
EMEP/CCC-Report 4/86 by J. Schaug, A. Harstad, T. Krognnes, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1986.

Data Report January 1983-December 1983.
EMEP/CCC-Report 5/86 by J. Schaug, A. Harstad, T. Krognnes, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1986.

Data Report January 1984-June 1984.
EMEP/CCC-Report 1/87 by J. Schaug, J. Pacyna, A. Harstad, T. Krognnes,
J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1987.

Data Report July 1984-December 1984.
EMEP/CCC-Report 2/87 by J. Schaug, J. Pacyna, A. Harstad, T. Krognnes,
J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1987.

Data Report January 1985-June 1985.
EMEP/CCC-Report 5/87 by J. Pacyna, J. Schaug, A. Harstad, T. Krognnes,
J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1987.

Data Report July 1985-December 1985.
EMEP/CCC-Report 6/87 by J. Pacyna, J. Schaug, A. Harstad, T. Krognnes,
J.E. Skjelmoen
Lillestrøm, Norwegian Institute for Air Research, 1987.

European Precipitation Chemistry Atlas.

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. EMEP/CCC-Report 5/88 by R.J. Barthelmie, T.D. Davies, G. Farmer, J. Schaug. Norwich/Lillestrøm, Climatic Research Unit, University of East Anglia/Norwegian Institute for Air Research, 1988.

Data Report 1986. Part 1: Annual summaries.

EMEP/CCC-Report 6/88 by J. Schaug, J.E. Skjelmoen, S.E. Walker, A. Harstad, K. Nodop, J. Pacyna
Lillestrøm, Norwegian Institute for Air Research, 1988.

Data Report 1986. Part 2: Monthly and seasonal summaries.

EMEP/CCC-Report 7/88 by J. Schaug, J.E. Skjelmoen, S.E. Walker, A. Harstad, K. Nodop, J. Pacyna
Lillestrøm, Norwegian Institute for Air Research, 1988.

Data Report 1987. Part 1: Annual summaries.

EMEP/CCC-report 1/89 by J. Schaug, J.E. Skjelmoen, S.-E. Walker, U. Pedersen, A. Harstad
Lillestrøm, Norwegian Institute for Air Research, 1989.

Data Report 1987. Part 2: Monthly and seasonal summaries.

EMEP/CCC-Report 2/89 by J. Schaug, J.E. Skjelmoen, S.E. Walker, U. Pedersen, A. Harstad.
Lillestrøm, Norwegian Institute for Air Research, 1989.

Ozone measurements January-December 1985.

EMEP/CCC-Report 3/89 by U. Feister, U. Pedersen.
Potsdam/Lillestrøm, Meteorological Service of the GDR/Norwegian Institute for Air Research, 1989.

Data Report 1988. Part 1: Annual summaries.

EMEP/CCC-Report 4/90 by U. Pedersen, J. Schaug, J.E. Skjelmoen, J.E. Hanssen.
Lillestrøm, Norwegian Institute for Air Research, 1990.

Data Report 1988. Part 2: Monthly and seasonal summaries.

EMEP/CCC-Report 5/90 by J. Schaug, U. Pedersen, J.E. Skjelmoen, J.E. Hanssen.
Lillestrøm, Norwegian Institute for Air Research, 1990.

European Precipitation Chemistry Atlas (Volume 2).

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 1982 to December 1985. EMEP/CCC-Report 6/90 by T.D. Davies, R.J. Barthelmie, M. Varley, S. Dorling, G. Farmer, J. Schaug. Norwich/Lillestrøm, Climatic Research Unit, University of East Anglia/Norwegian Institute for Air Research, 1990.

Ozone measurements January-December 1986.
EMEP/CCC-Report 8/90 by U. Feister, U. Pedersen, E. Schulz, S. Hechler.
Potsdam/Lillestrøm, Meteorological Service of the GDR/Norwegian Institute for
Air Research, 1990.

Data Report 1989. Part 1: Annual summaries.
EMEP/CCC-Report 2/91 by J. Schaug, U. Pedersen, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1991.

Data Report 1989. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 3/91 by J. Schaug, U. Pedersen, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1991.

Ozone Data Report 1988.
EMEP/CCC-Report 1/92 by U. Pedersen.
Lillestrøm, Norwegian Institute for Air Research, 1992.

Data Report 1990. Part 1: Annual summaries.
EMEP/CCC-Report 2/92 by U. Pedersen, J. Schaug, J.E. Skjelmoen.
Lillestrøm, Norwegian Institute for Air Research, 1992.

Data Report 1990. Part 2: Monthly and Seasonal Summaries.
EMEP/CCC-Report 3/92 by J. Schaug, U. Pedersen, J.E. Skjelmoen and
I. Kvalvågnes.
Lillestrøm, Norwegian Institute for Air Research, 1992.

European Precipitation Chemistry Atlas (Volume 3). An Atlas of monthly and
seasonal maps of precipitation amount, non-sea-salt sulphate, nitrate, ammonium
and hydrogen ion concentrations and depositions based on the EMEP precipitation
chemistry network: January 1986 to December 1989.
EMEP/CCC-Report 6/92 by T.D. Davies, S. Glynn, R.J. Barthelmie.
Norwich/Lillestrøm, Climate Research Unit, University of East Anglia,
Norwegian Institute for Air Research, 1992.

Ozone Data Report 1989.
EMEP/CCC-Report 2/93 by U. Pedersen and I. Kvalvågnes.
Lillestrøm, Norwegian Institute for Air Research, 1993.

Data Report 1991. Part 1: Annual summaries.
EMEP/CCC-Report 4/93 by J. Schaug, U. Pedersen, J.E. Skjelmoen and
I. Kvalvågnes.
Lillestrøm, Norwegian Institute for Air Research, 1993.

Data Report 1991. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 5/93 by J. Schaug, U. Pedersen, J.E. Skjelmoen and
I. Kvalvågnes.
Lillestrøm, Norwegian Institute for Air Research, 1993.

VOC measurements August 1992-June 1993.
EMEP/CCC-Report 6/93 by S. Solberg, N. Schmidbauer, C. Dye, U. Pedersen and J. Schaug.
Lillestrøm, Norwegian Institute for Air Research, 1993.

VOC measurements 1993.
EMEP/CCC-Report 3/94 by S. Solberg, C. Dye and N. Schmidbauer.
Lillestrøm, Norwegian Institute for Air Research, 1994.

Data Report 1992. Part 1: Annual summaries.
EMEP/CCC-Report 4/94 by J. Schaug, U. Pedersen, J.E. Skjelmoen, K. Arnesen, A. Bartonova.
Lillestrøm, Norwegian Institute for Air Research, 1992.

Data Report 1992. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 5/94 by J. Schaug, U. Pedersen, J.E. Skjelmoen and K. Arnesen.
Lillestrøm, Norwegian Institute for Air Research, 1993.

Ozone Measurements 1990-1992.
EMEP/CCC-Report 4/95 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1995.

Data Report 1993. Part 1: Annual summaries.
EMEP/CCC-Report 7/95 by A.-G. Hjellbrekke, G. Lövblad, K. Sjöberg, J. Schaug, J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1995.

Data Report 1993. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 8/95 by G. Lövblad, A.-G. Hjellbrekke, K. Sjöberg, J. Schaug, J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1995.

Ozone Measurements 1993-1994.
EMEP/CCC-Report 1/96 by A.G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1996.

Data Report 1994. Part 1: Annual summaries.
EMEP/CCC-Report 4/96 by A.-G. Hjellbrekke, J. Schaug, J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1996.

Data Report 1994. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 5/96 by A.-G. Hjellbrekke, J. Schaug, J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1996.

VOC measurements 1994–1995.
EMEP/CCC-Report 6/96 by S. Solberg, C. Dye and N. Schmidbauer.
Kjeller, Norwegian Institute for Air Research, 1996.

Heavy metals and POPs within the ECE region.
EMEP/CCC-Report 8/96 by T. Berg, A.-G. Hjellbrekke, J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1996.

Ozone Measurements 1995.
EMEP/CCC-Report 3/97 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1997.

Data Report 1995. Part 1: Annual summaries.
EMEP/CCC-Report 4/97 by A.-G. Hjellbrekke, J. Schaug, J.E. Hanssen,
J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1997.

Data Report 1995. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 5/97 by A.-G. Hjellbrekke, J. Schaug, J.E. Hanssen,
J.E. Skjelmoen.
Kjeller, Norwegian Institute for Air Research, 1997.

VOC measurements 1996.
EMEP/CCC-Report 7/97 by S. Solberg, C. Dye and N. Schmidbauer.
Kjeller, Norwegian Institute for Air Research, 1997.

Data Report 1996. Part 1: Annual summaries.
EMEP/CCC-Report 1/98 by A.-G. Hjellbrekke and J.E. Hanssen.
Kjeller, Norwegian Institute for Air Research, 1998.

Data Report 1996. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 2/98 by A.-G. Hjellbrekke and J.E. Hanssen.
Kjeller, Norwegian Institute for Air Research, 1998.

Ozone Measurements 1996.
EMEP/CCC-Report 3/98 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1998.

VOC measurements 1997.
EMEP/CCC-Report 4/98 by S. Solberg, P. Coddeville, C. Dye, J. Honzak and
N. Schmidbauer.
Kjeller, Norwegian Institute for Air Research, 1998.

Ozone Measurements 1997.
EMEP/CCC-Report 2/99 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1999.

Data Report 1997. Part 1: Annual summaries.
EMEP/CCC-Report 3/99 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1999.

Data Report 1997. Part 2: Monthly and seasonal summaries.
EMEP/CCC-Report 4/99 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 1999.

VOC measurements 1998.

EMEP/CCC-Report 5/99 by S. Solberg.

Kjeller, Norwegian Institute for Air Research, 1999.

Heavy metals and POPs within the ECE region 1997.

EMEP/CCC-Report 7/99 by T. Berg and A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 1999.

Heavy metals and POPs in Europe 1998.

EMEP/CCC-Report 2/2000 by T. Berg, A.-G. Hjellbrekke and R. Larsen.

Kjeller, Norwegian Institute for Air Research, 2000.

Data Report 1998. Part 1: Annual summaries.

EMEP/CCC-Report 3/2000 by A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 2000.

Data Report 1998. Part 2: Monthly and seasonal summaries.

EMEP/CCC-Report 4/2000 by A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 2000.

Ozone Measurements 1998.

EMEP/CCC-Report 5/2000 by A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 2000.

Ozone Measurements 1999.

EMEP/CCC-Report 1/2001 by A.-G. Hjellbrekke and S. Solberg.

Kjeller, Norwegian Institute for Air Research, 2001.

Data Report 1999. Acidifying and eutrophying compounds. Part 1: Annual summaries.

EMEP/CCC-Report 2/2001 by A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 2001.

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

EMEP/CCC-Report 3/2001 by A.-G. Hjellbrekke.

Kjeller, Norwegian Institute for Air Research, 2001.

VOC measurements 1999.

EMEP/CCC-Report 7/2001 by S. Solberg, C. Dye, M. Roemer and N. Schmidbauer.

Kjeller, Norwegian Institute for Air Research, 2001.

Heavy metals and POPs within the ECE region in 1999.

EMEP/CCC-Report 9/2001 by T. Berg, A.-G. Hjellbrekke and R. Larsen.

Kjeller, Norwegian Institute for Air Research, 2001.

Ozone measurements 2000.

EMEP/CCC-Report 5/2002 by A.-G. Hjellbrekke and S. Solberg.

Kjeller, Norwegian Institute for Air Research, 2002.

Data Report 2000. Acidifying and eutrophying compounds. Part 1: Annual summaries.

EMEP/CCC-Report 6/2002 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2002.

Data Report 2000. Acidifying and eutrophying compounds. Part 2: Monthly and seasonal summaries.

EMEP/CCC-Report 7/2002 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2002.

VOC measurements 2000.

EMEP/CCC-Report 8/2002 by S. Solberg, C. Dye, N. Schmidbauer, M. Wallasch and R. Junek.
Kjeller, Norwegian Institute for Air Research, 2002.

Heavy metals and POPs within the EMEP region 2000.

EMEP/CCC-Report 9/2002 by T. Berg, A.-G. Hjellbrekke and R. Larsen.
Kjeller, Norwegian Institute for Air Research, 2002.

Heavy metals and POP measurements, 2001.

EMEP/CCC-Report 1/2003 by W. Aas and A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2003.

VOC measurements 2001.

EMEP/CCC-Report 2/2003 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2003.

Data Report 2001. Acidifying and eutrophying compounds.

EMEP/CCC-Report 3/2003 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2003.

Ozone measurements 2001.

EMEP/CCC-Report 4/2003 by A.-G. Hjellbrekke and S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2003.

Data Report 2002. Acidifying and eutrophying compounds.

EMEP/CCC-Report 1/2004 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2004.

Ozone measurements 2002.

EMEP/CCC-Report 2/2004 by A.-G. Hjellbrekke and S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2004.

Heavy metals and POP measurements, 2002.

EMEP/CCC-Report 7/2004 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2004.

VOC measurements 2002.

EMEP/CCC-Report 8/2004 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2004.

Data Report 2003. Acidifying and eutrophying compounds.
EMEP/CCC-Report 3/2005 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2005.

Ozone measurements 2003.
EMEP/CCC-Report 4/2005 by A.-G. Hjellbrekke and S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2005.

Heavy metals and POP measurements, 2003.
EMEP/CCC-Report 9/2005 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2005.

VOC measurements 2003.
EMEP/CCC-Report 10/2005 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2005.

Data Report 2004. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2006 by A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2006.

Ozone measurements 2004.
EMEP/CCC-Report 2/2006 by A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2006.

Heavy metals and POP measurements, 2004.
EMEP/CCC-Report 7/2006 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2006.

VOC measurements 2004.
EMEP/CCC-Report 8/2006 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2006.

Data Report 2005. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2007 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2007.

Ozone measurements 2005.
EMEP/CCC-Report 2/2007 by A.M. Fjæraa and A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2007.

Heavy metals and POP measurements, 2005.
EMEP/CCC-Report 6/2007 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2007.

VOC measurements 2005.
EMEP/CCC-Report 7/2007 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2007.

Data Report 2006. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2008 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2008.

Ozone measurements 2006.
EMEP/CCC-Report 2/2008 by A.M. Fjæraa and A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2008.

Heavy metals and POP measurements, 2006.
EMEP/CCC-Report 4/2008 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2008.

VOC measurements 2006.
EMEP/CCC-Report 5/2008 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2008.

Data Report 2007. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2009 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2009.

Ozone measurements 2007.
EMEP/CCC-Report 2/2009 by A.M. Fjæraa and A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2009.

Heavy metals and POP measurements, 2007.
EMEP/CCC-Report 3/2009 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2009.

VOC measurements 2007.
EMEP/CCC-Report 4/2009 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2009.

Data Report 2008. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2010 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2010.

Ozone measurements 2008.
EMEP/CCC-Report 2/2010 by A.M. Fjæraa and A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2010.

Heavy metals and POP measurements, 2008.
EMEP/CCC-Report 3/2010 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2010.

VOC measurements 2008.
EMEP/CCC-Report 4/2010 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2010.

Data Report 2009. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2011 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2011.

Ozone measurements 2009.
EMEP/CCC-Report 2/2011 by A.-G. Hjellbrekke, S. Solberg and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2011.

Heavy metals and POP measurements, 2009.
EMEP/CCC-Report 3/2011 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2011.

VOC measurements 2009.
EMEP/CCC-Report 6/2011 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2011.

Data Report 2010. Acidifying and eutrophying compounds.
EMEP/CCC-Report 1/2012 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2012.

Ozone measurements 2010.
EMEP/CCC-Report 2/2012 by A.-G. Hjellbrekke, S. Solberg and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2012.

Heavy metals and POP measurements, 2010.
EMEP/CCC-Report 3/2012 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2012.

VOC measurements 2010.
EMEP/CCC-Report 4/2012 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2012.

Data Report 2011. Acidifying and eutrophying compounds.
EMEP/CCC-Report 2/2013 by A.-G. Hjellbrekke and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2013.

Ozone measurements 2011.
EMEP/CCC-Report 3/2013 by A.-G. Hjellbrekke, S. Solberg and A.M. Fjæraa.
Kjeller, Norwegian Institute for Air Research, 2013.

Heavy metals and POP measurements, 2011.
EMEP/CCC-Report 4/2013 by W. Aas and K. Breivik.
Kjeller, Norwegian Institute for Air Research, 2013.

VOC measurements 2011.
EMEP/CCC-Report 5/2013 by S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2013.

Ozone measurements 2012.
EMEP/CCC-Report 2/2014 by A.-G. Hjellbrekke and S. Solberg.
Kjeller, Norwegian Institute for Air Research, 2014.

Data Report 2012. Acidifying and eutrophying compounds and particulate matter.
EMEP/CCC-Report 3/2014 by A.-G. Hjellbrekke.
Kjeller, Norwegian Institute for Air Research, 2014.

Heavy metals and POP measurements, 2012.
EMEP/CCC-Report 4/2014 by W. Aas and P.B. Nizzetto.
Kjeller, Norwegian Institute for Air Research, 2014.

Data Report 2013 Acidifying and eutrophying compounds and particulate matter
EMEP/CCC-Report 1/2015 by A.-G. Hjellbrekke
Kjeller, Norwegian Institute for Air Research, 2015.

Ozone measurements 2013
EMEP/CCC-Report 2/2015 by A.-G. Hjellbrekke and S. Solberg
Kjeller, Norwegian Institute for Air Research, 2015.

Heavy metals and POP measurements, 2013
EMEP/CCC-Report 3/2015 by W. Aas and P. Bohlin Nizzetto
Kjeller, Norwegian Institute for Air Research, 2015.

VOC measurements 2012 and 2013
EMEP/CCC-Report 4/2015 by S. Solberg
Kjeller, Norwegian Institute for Air Research, 2015.

Annex 6

Description of statistical calculation procedures

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

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

and between

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

if the data come from a lognormal distribution.

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:

$$\hat{c} = \frac{1}{\sum_i p_i} \cdot \sum_i c_i \cdot p_i$$

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:

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

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

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

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 $\ln c$:

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

$$sd_g = \exp(sdlnc)$$

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

5%, 50%, 95% is the 5, 50 and 95 percentile, computed for air data only using the method of nearest rank:

$$n = \frac{P}{100} \cdot N + \frac{1}{2}$$

is the P-th percentile $0 \leq P \leq 100$ of N ordered values, rounding n to the nearest integer and then taking the value corresponding to that rank.

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.

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,
- 0.1 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 precision and detection limit follow the DQO of the WMO GAW precipitation programme (WMO, 2004):

Measurement parameter	Detection limits	Precision	
		Overall	Laboratory
pH (pH units)		± 0.1 pH unit at pH > 5 ± 0.03 pH unit at pH < 5	± 0.04 pH unit at pH > 5 ± 0.02 pH unit at pH < 5
SO ₄ ²⁻ (mg S L ⁻¹)	0.02	0.02	0.01
NO ₃ ⁻ (mg N L ⁻¹)	0.02	0.01	0.01
Cl ⁻ (mg L ⁻¹)	0.04	0.02	0.02
NH ₄ ⁺ (mg N L ⁻¹)	0.02	0.02	0.01
Ca ⁺⁺ (mg L ⁻¹)	0.02	0.02	0.01
Mg ⁺⁺ (mg L ⁻¹)	0.01	0.01	0.01
Na ⁺ (mg L ⁻¹)	0.02	0.01	0.01
K ⁺ (mg L ⁻¹)	0.02	0.01	0.01
Standard Gauge Precipitation Depth (mm)	0.02	0.2 daily 0.3 weekly	n/a n/a
Sample Depth (mm)	0.2	0.1 daily 0.3 weekly	n/a n/a

n/a: Not applicable

The targets for the wet analysis of components extracted from air filters are the same as for precipitation. For SO₂ the limit above for sulphate is valid for the medium volume method with impregnated filter. For NO₂ determined as NO₂⁻ in solution the accuracy for the lowest concentrations is 0.01 mg N/l.