

Data Report 2015

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	1,11	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	5,29	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
-	-	1,40	0,28	0,72	0,76	1,54	0,60	0,45	0,77	2,44	1,65
0,26	1,62	0,71	0,25	0,27	0,30	0,52	1,71	0,35	0,64	1,40	1,13
1,14	0,86	0,98	0,36	0,49	0,45	0,34	0,31	0,37	0,34	0,81	0,57
1,14	2,16	1,92	0,70	0,48	0,55	0,37	0,25	0,45	0,33	0,92	0,91
1,14	1,15	0,73	0,39	0,40	0,13	0,09	0,08	0,17	0,33	0,44	0,90
1,18	1,11	1,05	0,28	0,15	0,13	0,09	0,12	0,21	0,19	0,27	0,51
1,19	0,43	0,49	0,35	0,38	0,29	1,18	0,47	0,80	0,64	0,75	0,84
1,19	1,11	0,70	1,07	0,94	1,16	0,82	0,84	1,03	1,11	0,88	0,88
0,36	1,03	0,48	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	0,68	0,42	0,34	0,39	0,33	0,38	0,56	1,11	0,53
0,86	2,07	1,74	0,87	0,32	0,27	0,82	0,55	0,44	0,63	0,59	0,37
0,41	0,99	1,49	0,87	0,35	0,34	0,76	0,66	0,44	0,69	0,54	0,97
0,34	0,55	0,29	0,33	0,35	0,33	0,33	0,35	0,40	0,31	0,91	0,60
0,43	0,40	0,44	0,43	0,43	0,52	0,43	0,61	0,64	0,42	0,51	0,43
1,39	2,68	1,84	1,43	1,16	1,06	1,37	1,26	1,13	1,32	1,48	1,24
0,31	0,20	0,27	0,31	0,33	0,27	0,31	0,34	0,20	0,37	0,23	0,20
0,75	1,18	1,07	0,76	0,84	0,84	0,88	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 2015
Particulate matter, carbonaceous and
inorganic compounds**

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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 2015 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 85 stations and air data from 112 stations are presented in this report. The total number of measurement sites in this report is 125.

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 2015.

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	Vezen	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 (NOAK)	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
Estonia	DK0031R	Ulborg	56°17'00"N	008°26'00"E	10
	EE0009R	Lahemaa	59°30'00"N	025°54'00"E	32
Finland	EE0011R	Vilsandi	58°23'00"N	021°49'00"E	6
	FI0004R	Ähtäri	62°32'00"N	024°13'18"E	162
France	FI0009R	Utö	59°46'45"N	021°22'38"E	7
	FI0018R	Virolahti III	60°31'48"N	027°40'03"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
	FR0008R	Donon	48°30'00"N	007°08'00"E	775
France	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
	FR0023R	Saint-Nazaire-le-Desert	44°34'18"N	005°16'44"E	605
	FR0024R	Guipry	47°49'55"N	001°58'11"W	29
	FR0025R	Verneuil	46°48'53"N	002°36'36"E	182
	FR0030R	Puy de Dôme	45°46'00"N	002°57'00"E	1465
	Georgia	GE0001R	Abastumani	41°45'18"N	042°49'31"E
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
	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
	DE0043G	Hohenpeissenberg	47°48'05"N	011°00'35"E	985
	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-puszta	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	Ispira	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

Table 1, cont.

Country	Station codes	Station name	Location		Height above sea (m)	
			Lat.	Long.		
Malta	MT0001R	Giordan Lighthouse	36°04'20"N	014°13'06"E	167	
Moldova	MD0013R	Leova II	46°29'18"N	028°17'01"E	166	
Montenegro	ME0008R	Zabljak	43°09'00"N	019°08'00"E	1450	
The 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	Śnieżka	50°44'00"N	015°44'00"E	1603	
	PL0004R	Leba	54°45'00"N	017°32'00"E	2	
	PL0005R	Diabla Góra	54°09'00"N	022°04'00"E	157	
	PL0009R	Zielonka	53°39'44"N	017°56'02"E	121	
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	Topolníky	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	

Table 1, cont.

Country	Station codes	Station name	Location		Height above sea
United Kingdom (cont.)	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.

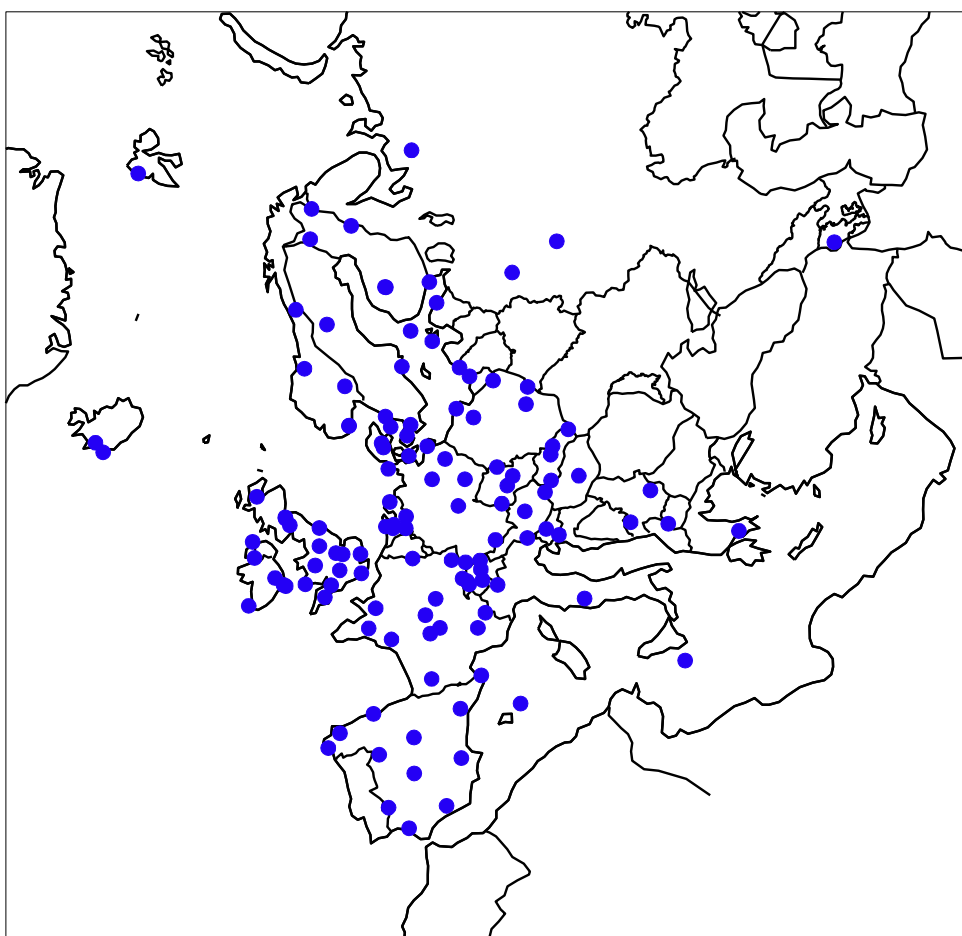


Figure 3.1: Location of the EMEP monitoring stations in operation in 2015.
Sites with ozone/VOC measurements only are not included.

4. The measurement programme during 2015

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, 2017). In this report, inorganic data in air and precipitation, aerosol mass and inorganic and carbonaceous matter in air are presented, ozone (Hjellbrekke and Solberg, 2017); heavy metals and POPs (Aas, Nizzetto and Pfaffhuber, 2017) are reported separately.

Table 2: EMEP's measurement programme 2015.

	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, chlordane, 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, chlordane, 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 32th laboratory intercomparison is representative for the 2015 data. Results are presented at <http://www.nilu.no/projects/ccc/intercomparison/>.

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 2015.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
AM0001R	-	333	6.34	0.6	0.54	0.61	0.3	0.56	0.271	1	3.45	0.57	29
BY0004R	486.2	-	6.12	1.25	1.09	0.9	0.47	1.58	0.417	-	1.9	0.71	38
CH0002R	699.6	-	5.72	0.13	0.12	0.37	0.22	0.08	0.02	0.15	0.22	0.03	7
CH0004R	945.4	-	5.42	0.11	0.11	0.23	0.16	0.06	0.015	0.11	0.15	0.02	5
CH0005R	1266	-	5.58	0.14	0.14	0.45	0.27	0.05	0.012	0.08	0.15	0.03	7
CZ0001R	570	-	5.29	0.34	0.33	0.51	0.38	0.12	0.027	0.2	1	0.07	16
CZ0003R	581.8	-	5.32	0.32	0.31	0.5	0.33	0.15	0.028	0.19	0.33	0.08	14
CZ0005R	743.3	-	5.32	0.28	0.27	0.72	0.37	0.13	0.033	0.23	0.26	0.11	13
DE0001R	852.9	-	5.23	0.79	0.22	0.62	0.43	6.82	0.825	12.25	0.35	0.27	57
DE0002R	703.2	-	5.25	0.27	0.24	0.57	0.33	0.34	0.045	0.66	0.1	0.05	12
DE0003R	1350	-	5.23	0.14	0.13	0.26	0.19	0.18	0.015	0.25	0.06	0.03	7
DE0007R	577.4	-	5.09	0.27	0.24	0.63	0.39	0.36	0.048	0.66	0.12	0.09	12
DE0008R	1015.1	-	4.97	0.2	0.17	0.47	0.34	0.43	0.012	0.72	0.03	0.04	11
DE0009R	550.3	-	5.32	0.42	0.29	0.99	0.44	1.58	0.2	2.79	0.24	0.18	24
DK0005R	577.6	-	-	0.41	0.23	0.59	0.41	-	0.274	3.8	0.23	0.2	-
DK0008R	468.5	-	-	0.49	0.23	0.43	0.37	-	0.378	6.49	0.2	0.13	-
DK0012R	562.9	-	-	0.3	0.2	0.51	0.34	-	0.175	2.43	0.2	0.15	-
DK0022R	577.6	-	-	0.37	0.22	0.45	0.38	-	0.222	3.24	0.15	0.11	-
EE0009R	544.4	-	4.91	0.22	0.19	0.2	0.24	0.45	0.091	0.56	0.59	0.08	9
EE0011R	523.3	-	5.13	0.27	0.19	0.28	0.39	1.35	0.226	1.4	0.76	0.11	14
ES0001R	397.4	-	5.71	0.29	0.27	0.33	0.22	0.24	0.068	0.37	1.04	0.08	16
ES0005R	1987.3	-	5.2	0.34	0.18	0.09	0.12	2.02	0.237	3.03	0.21	0.11	18
ES0006R	522.7	-	5.75	1.66	0.14	0.2	0.39	18.15	2.238	27.89	1.68	0.76	116
ES0007R	440.6	-	6.31	0.41	0.38	0.53	0.33	0.31	0.218	0.82	1.62	0.22	19
ES0008R	1108.4	-	4.76	0.61	0.23	0.32	0.52	4.52	0.541	6.71	0.49	0.18	41
ES0009R	340.6	-	6.05	0.25	0.23	0.44	0.33	0.18	0.074	0.37	0.9	0.06	12
ES0011R	380.3	-	5.72	0.23	0.18	0.29	0.14	0.59	0.135	0.95	0.52	0.36	12
ES0012R	344.7	-	6.04	0.47	0.43	0.4	0.34	0.39	0.123	0.72	1.68	0.08	17
ES0013R	352.2	-	6.01	0.3	0.27	0.62	0.25	0.29	0.1	0.55	0.72	0.17	13
ES0014R	256.1	-	6.29	0.52	0.48	0.72	0.41	0.4	0.185	0.76	2.22	0.41	23
ES0016R	1269.9	-	5.54	0.26	0.19	0.34	0.18	0.84	0.128	1.43	0.35	0.19	13
ES0017R	345.4	-	5.39	0.36	0.21	0.12	0.13	1.86	0.228	2.72	0.51	0.09	18
FI0004R	679	-	4.85	0.15	0.14	0.13	0.2	0.12	0.027	0.2	0.06	0.08	9
FI0018R	524.2	-	4.7	0.39	0.37	0.36	0.38	0.34	0.068	0.57	0.2	0.1	16
FI0036R	706.6	-	4.88	0.13	0.12	0.06	0.1	0.07	0.011	0.12	0.03	0.02	7
FR0008R	1293.6	-	5.43	0.14	0.12	0.22	0.18	0.18	0.026	0.3	0.1	0.03	-
FR0009R	1045.5	-	5.53	0.23	0.19	0.41	0.3	0.56	0.067	0.91	0.21	0.06	-
FR0010R	828.6	-	5.51	0.16	0.13	0.47	0.18	0.44	0.057	0.71	0.14	0.15	-
FR0013R	581.4	-	5.63	0.27	0.2	0.32	0.25	0.8	0.112	1.39	0.37	0.15	-
FR0014R	998	-	5.54	0.13	0.12	0.24	0.2	0.11	0.019	0.19	0.14	0.03	-
FR0015R	786	-	5.68	0.28	0.18	0.34	0.19	1.16	0.144	1.98	0.21	0.08	-
FR0016R	637.8	-	5.66	0.18	0.17	0.23	0.19	0.09	0.033	0.16	0.46	0.07	-
FR0017R	947.1	-	5.6	0.16	0.13	0.2	0.16	0.36	0.05	0.6	0.23	0.03	-
FR0018R	876.7	-	5.8	0.22	0.14	0.37	0.17	0.91	0.116	1.59	0.15	0.05	-
GB0002R	1462.4	-	5.49	0.34	0.14	0.57	0.12	2.4	0.242	4.19	0.12	0.21	23
GB0006R	1719.7	-	5.57	0.43	0.06	0.1	0.05	4.43	0.494	7.81	0.27	0.18	33
GB0013R	796.3	-	5.36	0.34	0.15	0.27	0.21	2.27	0.241	3.92	0.19	0.12	20
GB0014R	757.5	-	5.41	0.42	0.28	0.51	0.32	1.64	0.173	2.86	0.25	0.1	19
GB0015R	1353.6	-	5.34	0.51	0.04	0.06	0.05	5.59	0.6	10.19	0.24	0.19	40
GB0036R	420.2	-	5.58	0.26	0.16	0.37	0.23	1.17	0.115	2.02	0.18	0.08	13
GB0048R	1008.4	-	5.5	0.19	0.09	0.21	0.1	1.18	0.119	2.06	0.12	0.06	11
HU0002R	371.7	513.9	5.99	0.73	0.66	0.57	0.43	1.19	0.118	1.01	0.64	0.17	18
IE0001R	2294.6	1727.3	5.31	0.68	0.07	0.05	0.29	7.33	0.933	13.21	0.29	0.28	55
IE0005R	570.1	928.9	5.8	0.17	0.07	0.22	0.09	1.21	0.159	2.2	0.15	0.07	13
IE0006R	1205.6	1464.8	5.37	1.38	0.14	0.11	0.07	14.86	1.933	26.36	0.68	0.65	108
IE0009R	931	1063.3	5.43	0.39	0.11	0.16	0.11	3.29	0.407	6.13	0.17	0.13	28
IS0002R	1889.9	-	5.5	0.34	0.02	-	0.03	3.78	0.457	7.02	0.2	0.28	28
IT0001R	521	-	5.8	0.46	0.29	0.25	0.73	2.09	0.506	3.62	4.11	0.25	40
IT0004R	1189.8	-	5.08	0.44	0.42	0.82	0.54	0.41	0.06	0.3	0.52	0.07	16
LT0015R	445.7	-	4.87	0.46	0.31	0.48	0.43	1.83	0.275	3.1	0.36	0.15	25
LV0010R	-	744.4	5.05	0.32	0.27	0.34	0.37	0.54	0.101	1.17	0.21	0.07	15
ME0008R	1277.7	-	6.26	0.99	0.92	0.92	0.25	0.86	0.261	1.39	1.49	0.56	28

Table 3, cont.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
NL0091R	792.4	-	5.21	0.51	0.2	0.42	0.29	3.66	0.439	6.44	0.28	0.17	34
NO0001R	2172.6	-	4.91	0.29	0.18	0.28	0.29	1.29	0.161	2.27	0.15	0.1	18
NO0015R	1443.7	-	5.26	0.2	0.05	0.09	0.07	1.96	0.243	3.51	0.17	0.15	17
NO0039R	1343.5	-	5.2	0.18	0.06	0.09	0.08	1.49	0.179	2.57	0.15	0.14	14
NO0056R	1058.6	-	4.98	0.17	0.14	0.24	0.25	0.35	0.051	0.58	0.1	0.13	10
PL0002R	439.4	448	4.91	0.62	0.6	0.65	0.5	0.25	0.06	0.55	0.36	0.18	18
PL0003R	414.3	727.8	4.5	1.04	0.98	0.38	0.82	0.79	0.254	0.72	0.56	0.42	30
PL0004R	540.5	477.6	4.97	0.35	0.23	0.39	0.41	1.34	0.161	2.32	0.19	0.13	19
PL0005R	561.4	637.6	5.04	0.34	0.32	0.52	0.37	0.29	0.053	0.57	0.15	0.07	13
RS0005R	703	-	4.95	1.02	0.99	1.01	0.48	0.3	0.185	0.51	1.93	1.49	30
RU0001R	489.4	-	5.51	0.28	0.2	0.45	0.1	1.04	0.05	2.78	0.4	1.64	19
RU0013R	525.3	-	5.96	0.38	0.33	0.42	0.24	0.51	0.147	0.82	0.72	0.47	12
RU0018R	500.2	-	5.65	0.41	0.39	0.45	0.31	0.2	0.07	0.3	0.68	0.21	11
RU0020R	620	-	5.5	0.34	0.32	0.44	0.28	0.34	0.061	0.43	0.51	0.23	10
SE0005R	664.8	-	5.22	0.08	0.07	0.12	0.1	0.1	0.018	0.17	0.04	0.04	5
SE0011R	558	-	5.3	0.33	0.24	0.6	0.56	1.03	0.133	1.74	0.43	0.12	19
SE0012R	799.4	-	5.21	0.22	0.2	0.31	0.23	0.24	0.03	0.42	0.1	0.03	9
SE0014R	740.3	-	5.1	0.62	0.14	0.44	0.36	5.67	0.656	9.94	0.27	0.22	46
SI0008R	1212.2	1366.2	5.12	0.24	0.23	0.2	0.22	0.11	0.031	0.24	0.26	0.03	8
SK0002R	992.3	-	5.07	0.43	0.42	0.38	0.27	0.13	0.04	0.19	0.25	0.06	12
SK0004R	640.9	-	5.55	0.43	0.42	0.52	0.32	0.16	0.048	0.15	0.32	0.15	12
SK0006R	449.5	-	4.94	0.62	0.61	0.45	0.43	0.18	0.052	0.22	0.29	0.17	16
SK0007R	346.8	-	5.24	0.47	0.47	0.56	0.32	0.08	0.044	0.14	0.33	0.08	13

Table 4: Annual averages of main components in air 2015.

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	0.21	0.19	0.45	0.45	-	0.32	0.11	-	0.5	0.81
AT0002R	air/aerosol	0.65	-	-	-	-	-	-	-	-	-
AT0005R	air/aerosol	0.16	0.83	-	-	-	-	-	-	-	-
AT0048R	air/aerosol	0.18	-	-	-	-	-	-	-	-	-
CH0001G	air/aerosol	0.03	0.08	0.09	-	-	-	-	-	-	-
CH0002R	air/aerosol	0.18	3.38	0.41	0.39	0.91	0.72	0.24	3.49	1	2.24
CH0003R	air/aerosol	-	3.93	-	-	-	-	-	-	-	-
CH0004R	air/aerosol	-	1.69	-	-	-	-	-	-	-	-
CH0005R	air/aerosol	0.18	1.06	0.3	0.28	0.64	0.49	0.18	1.87	0.79	1.22
CY0002R	air/aerosol	0.49	0.42	-	-	-	-	-	-	-	-
CY0002R	pm10	-	-	1.16	1.15	-	0.04	-	-	0.86	-
CZ0003R	air/aerosol	0.79	-	0.6	-	0.8	-	-	3.04	-	-
CZ0005R	air/aerosol	0.58	-	0.27	-	0.44	-	-	1.24	-	-
DE0001R	air/aerosol	-	2.07	-	-	-	-	-	-	-	1.93
DE0001R	pm25	-	-	0.42	0.39	-	0.46	-	-	0.75	-
DE0002R	air/aerosol	0.33	2.66	0.58	0.57	0.85	0.64	0.21	-	-	1.54
DE0002R	pm25	-	-	0.57	0.56	-	0.59	-	-	1.03	-
DE0003R	air/aerosol	0.23	-	0.38	0.37	0.57	0.31	0.27	-	-	0.9
DE0003R	pm25	-	-	0.3	0.3	-	0.23	-	-	0.52	-
DE0007R	air/aerosol	0.4	1.88	0.54	0.53	0.69	0.53	0.17	-	-	0.83
DE0007R	pm25	-	-	0.57	0.56	-	0.45	-	-	0.87	-
DE0008R	air/aerosol	0.39	1.83	-	-	-	-	-	-	-	0.7
DE0008R	pm25	-	-	0.35	0.34	-	0.31	-	-	0.62	-
DE0009R	air/aerosol	0.3	1.97	-	-	-	-	-	-	-	0.95
DE0009R	pm25	-	-	0.46	0.45	-	0.49	-	-	0.85	-
DE0044R	air/aerosol	-	3	-	-	-	-	-	-	-	-
DE0044R	pm10	-	-	0.75	0.72	-	0.74	-	-	1.14	-
DE0044R	pm25	-	-	0.67	0.66	-	0.57	-	-	1.01	-
DK0003R	air/aerosol	0.09	-	0.62	0.52	0.62	-	-	-	0.77	0.83
DK0005R	air/aerosol	-	7.43	-	-	-	-	-	-	-	-
DK0008R	air/aerosol	0.12	4.4	0.69	0.61	0.6	-	-	-	0.64	0.18
DK0012R	air/aerosol	0.16	7.6	0.72	0.64	0.84	-	-	-	0.94	0.71
EE0009R	air/aerosol	0.75	2.27	0.03	0.01	-	0.04	-	-	1.12	-
EE0011R	air/aerosol	0.41	2.14	-	-	-	-	-	-	-	-
ES0001R	air/aerosol	0.23	0.86	-	-	0.36	-	-	2.14	-	1.36
ES0001R	pm10	-	-	0.36	0.33	-	0.19	-	-	0.4	-
ES0001R	pm25	-	-	0.33	0.32	-	0.07	-	-	0.24	-
ES0005R	air/aerosol	0.3	0.73	-	-	0.22	-	-	1.16	-	-
ES0005R	pm10	-	-	0.36	-	-	0.15	-	-	-	-
ES0006R	air/aerosol	0.15	1.52	-	-	0.56	-	-	1.39	-	-
ES0006R	pm10	-	-	0.87	-	-	0.46	-	-	-	-
ES0007R	air/aerosol	0.54	1.75	-	-	0.56	-	-	1.68	-	1.2
ES0007R	pm10	-	-	0.49	0.45	-	0.26	-	-	0.6	-
ES0007R	pm25	-	-	0.41	0.4	-	0.08	-	-	0.25	-
ES0008R	air/aerosol	0.51	1.53	-	-	0.53	-	-	1.4	-	0.56
ES0008R	pm10	-	-	0.71	0.56	-	0.29	-	-	0.44	-
ES0008R	pm25	-	-	0.51	0.48	-	0.02	-	-	0.17	-
ES0009R	air/aerosol	0.22	0.75	-	-	0.13	-	-	1.01	-	0.75
ES0009R	pm10	-	-	0.3	0.28	-	0.12	-	-	0.28	-
ES0009R	pm25	-	-	0.24	0.24	-	0.04	-	-	0.17	-
ES0010R	air/aerosol	0.25	1.31	-	-	0.68	-	-	1.4	-	-
ES0010R	pm10	-	-	0.65	-	-	0.46	-	-	-	-
ES0011R	air/aerosol	0.21	0.7	-	-	0.25	-	-	0.84	-	-
ES0011R	pm10	-	-	0.44	-	-	0.25	-	-	-	-
ES0012R	air/aerosol	0.26	0.69	-	-	0.44	-	-	1.37	-	-
ES0012R	pm10	-	-	0.49	-	-	0.33	-	-	-	-
ES0013R	air/aerosol	0.18	0.94	-	-	0.32	-	-	1.24	-	-
ES0013R	pm10	-	-	0.3	-	-	0.23	-	-	-	-
ES0014R	air/aerosol	0.36	1.09	-	-	0.44	-	-	2.88	-	2.98
ES0014R	pm10	-	-	0.52	0.48	-	0.27	-	-	0.65	-
ES0014R	pm25	-	-	0.49	0.48	-	0.13	-	-	0.48	-
ES0016R	air/aerosol	0.28	0.9	-	-	0.32	-	-	1.59	-	-
ES0016R	pm10	-	-	0.43	-	-	0.19	-	-	-	-
ES0017R	air/aerosol	0.17	0.55	-	-	0.59	-	-	1.8	-	-
ES0017R	pm10	-	-	0.75	-	-	0.45	-	-	-	-

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
FI0009R	air/aerosol	0.11	0.9	0.28	0.22	0.31	0.21	0.1	0.29	0.21	0.08
FI0018R	air/aerosol	0.22	1.11	0.27	0.25	0.2	0.12	0.08	0.29	0.19	0.1
FI0022R	air/aerosol	0.2	-	0.2	0.19	0.04	0.01	0.03	0.1	0.08	0.02
FI0036R	air/aerosol	0.18	-	0.18	0.16	0.04	0.02	0.02	0.08	0.07	0.02
FI0037R	air/aerosol	0.09	0.49	0.2	0.19	0.1	0.05	0.05	0.18	0.12	0.07
FR0013R	pm25	-	-	0.44	0.44	-	0.08	-	-	0.12	-
FR0023R	pm25	-	-	0.37	0.37	-	0.13	-	-	0.12	-
FR0024R	pm25	-	-	0.36	0.34	-	0.33	-	-	0.19	-
FR0025R	pm25	-	-	0.36	0.36	-	0.27	-	-	0.16	-
FR0030R	air/aerosol	0.32	0.43	-	-	-	-	-	-	-	-
GB0002R	air/aerosol	-	0.67	-	-	-	-	-	-	-	-
GB0013R	air/aerosol	-	1.19	-	-	-	-	-	-	-	-
GB0014R	air/aerosol	-	1.62	-	-	-	-	-	-	-	-
GB0031R	air/aerosol	-	1.01	-	-	-	-	-	-	-	-
GB0033R	air/aerosol	-	1.85	-	-	-	-	-	-	-	-
GB0036R	air/aerosol	0.07	-	-	-	-	-	0.03	-	-	1.69
GB0036R	pm10	-	-	0.5	0.42	-	0.62	-	-	0.78	-
GB0036R	pm25	-	-	0.44	0.4	-	0.53	-	-	0.73	-
GB0037R	air/aerosol	0.83	1.49	-	-	-	-	-	-	-	-
GB0038R	air/aerosol	0.59	2.13	-	-	-	-	-	-	-	-
GB0043R	air/aerosol	0.45	0.83	-	-	-	-	-	-	-	-
GB0045R	air/aerosol	1.43	2.23	-	-	-	-	-	-	-	-
GB0048R	air/aerosol	0.09	-	-	-	-	-	0.02	-	-	0.76
GB0048R	pm10	-	-	0.3	0.25	-	0.28	-	-	0.43	-
GB0048R	pm25	-	-	0.24	0.21	-	0.2	-	-	0.36	-
GB0050R	air/aerosol	-	2.86	-	-	-	-	-	-	-	-
GB0051R	air/aerosol	-	2.75	-	-	-	-	-	-	-	-
GB0053R	air/aerosol	-	1.84	-	-	-	-	-	-	-	-
GR0001R	air/aerosol	2.61	3.69	-	-	-	-	-	-	-	-
HU0002R	air/aerosol	0.68	1.3	0.99	-	0.66	0.49	0.17	2.39	0.89	1.51
IE0001R	air/aerosol	0.14	1.9	0.26	0.09	0.36	-	-	0.69	-	-
IE0005R	air/aerosol	-	-	0.36	-	-	0.35	-	-	0.69	-
IE0006R	air/aerosol	-	-	0.38	-	-	0.22	-	-	0.48	-
IE0008R	air/aerosol	-	-	0.16	-0.13	-	0.31	-	-	0.58	-
IS0002R	air/aerosol	0.29	-	0.24	0.17	-	-	-	-	-	-
IS0091R	air/aerosol	-	-	0.38	-	-	0.02	-	-	-	-
IT0001R	air/aerosol	0.16	5.25	0.55	-	-	0.37	0.22	-	0.84	1.7
IT0001R	pm10_pm25	-	-	0.05	-	-	0.16	-	-	-	-
IT0001R	pm25	-	-	0.5	-	-	0.21	-	-	-	-
IT0004R	air/aerosol	0.37	6.1	-	-	-	-	-	-	-	-
IT0004R	pm25	-	-	0.59	0.59	-	0.71	-	-	1.17	-
LT0015R	air/aerosol	0.16	0.96	0.54	-	0.61	-	-	0.96	-	-
LV0010R	air/aerosol	0.22	0.72	0.31	-	0.44	0.06	0.39	0.83	0.66	0.22
LV0010R	pm25	-	-	0.47	0.46	-	0.14	-	-	0.46	-
ME0008R	air/aerosol	3.12	2.82	-	-	-	-	-	-	-	-
MK0007R	air/aerosol	1.21	-	-	-	-	-	-	-	-	-
MT0001R	air/aerosol	-	0.77	-	-	-	-	-	-	-	-
NL0007R	air/aerosol	0.44	3.88	-	-	-	-	-	-	-	-
NL0009R	air/aerosol	0.21	2.59	-	-	-	-	-	-	-	-
NL0010R	air/aerosol	-	4.94	-	-	-	-	-	-	-	-
NL0091R	air/aerosol	0.57	4.55	-	-	-	-	-	-	-	1.74
NL0091R	pm10	-	-	0.58	-	-	0.8	-	-	0.82	-
NL0644R	air/aerosol	0.41	5.16	-	-	-	-	-	-	-	-
NO0002R	air/aerosol	0.07	0.3	0.29	0.24	0.32	0.27	0.05	0.44	0.27	0.17
NO0015R	air/aerosol	0.02	0.08	0.08	0.06	0.14	0.12	0.02	0.61	0.11	0.5
NO0039R	air/aerosol	0.03	0.11	0.09	0.08	0.14	0.12	0.02	0.51	0.13	0.38
NO0042G	air/aerosol	0.06	-	0.11	0.09	0.12	0.09	0.02	0.22	0.09	0.12
NO0056R	air/aerosol	0.05	0.64	0.14	0.13	0.27	0.24	0.04	0.42	0.24	0.17
PL0002R	air/aerosol	1.19	2.17	1.15	1.14	0.7	0.52	-	2.88	1.04	-
PL0003R	air/aerosol	1.1	1.09	0.84	0.83	0.53	0.4	-	0.77	0.55	-
PL0004R	air/aerosol	0.66	1.41	0.93	0.92	0.53	0.45	-	1.43	0.76	-
PL0005R	air/aerosol	0.27	1.17	0.53	-	0.67	0.22	2.02	0.45	0.73	1.27
PL0005R	pm25	-	-	1.65	1.64	-	1.67	-	-	1.02	-
RS0005R	air/aerosol	6.39	0.56	-	-	-	-	-	-	-	-

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
RU0018R	air/aerosol	0.22	-	0.47	-	-	0.29	-	-	0.4	-
RU0020R	air/aerosol	0.11	-	0.4	-	-	0.15	-	-	0.17	-
SE0005R	air/aerosol	0.06	0.09	0.08	0.07	0.03	-	-	0.1	-	-
SE0011R	air/aerosol	0.15	1.07	0.33	0.27	0.46	-	-	0.76	-	-
SE0012R	air/aerosol	0.13	0.37	0.23	0.19	0.22	-	-	0.3	-	-
SE0014R	air/aerosol	0.19	0.94	0.39	0.2	0.44	-	-	0.55	-	-
SI0008R	air/aerosol	0.23	0.49	0.63	0.62	0.22	0.15	0.08	0.74	0.53	0.22
SI0008R	pm25	-	-	0.69	0.68	-	0.08	-	-	0.64	-
SK0002R	air/aerosol	0.46	0.92	0.33	-	-	0.21	0.05	-	-	-
SK0006R	air/aerosol	0.75	1.16	0.7	0.69	-	0.31	0.06	-	0.65	0.63

Table 5: Annual averages and data capture of base cations and chloride in aerosols in 2015.

Code	Matrix	Na	capture	Ca	capture	Mg	capture	K	capture	Cl	capture
AM0001R	aerosol	0.07	72	0.44	75	0.03	75	0.11	71	0.06	67
CH0002R	aerosol	0.17	100	0.39	100	0.04	100	0.19	100	-	-
CH0005R	aerosol	0.12	96	0.26	96	0.03	96	0.07	96	-	-
CY0002R	pm10	0.15	82	0.18	82	0.03	82	0.09	82	0.04	82
CZ0003R	pm10	0.09	71	0.13	71	0.04	71	0.08	71	-	-
DE0001R	pm25	0.35	17	0.04	17	0.04	17	0.06	17	0.51	17
DE0002R	aerosol	-	-	-	-	-	-	-	-	0.47	100
DE0002R	pm25	0.12	17	0.03	17	0.01	17	0.06	17	0.11	17
DE0003R	aerosol	-	-	-	-	-	-	-	-	0.1	96
DE0003R	pm25	0.03	16	0.02	16	0	16	0.04	16	0.03	16
DE0007R	aerosol	-	-	-	-	-	-	-	-	0.44	98
DE0007R	pm25	0.11	17	0.02	17	0.01	17	0.06	17	0.08	17
DE0008R	pm25	0.04	17	0.02	17	0	17	0.03	17	0.02	17
DE0009R	pm25	0.15	17	0.03	17	0.01	17	0.06	17	0.17	17
DE0044R	pm10	0.28	99	0.15	99	0.04	99	0.13	99	0.28	99
DE0044R	pm25	0.09	98	0.08	98	0.01	97	0.1	98	0.11	98
DK0003R	aerosol	1.29	95	0.14	96	-	-	0.12	97	2.07	98
DK0008R	aerosol	2.11	96	0.17	97	-	-	0.12	97	2.15	91
DK0012R	aerosol	1.08	98	0.17	99	-	-	0.12	98	1.57	99
EE0009R	aerosol	0.46	99	0.59	99	0.08	99	0.13	100	0.31	99
ES0001R	pm10	0.21	100	0.26	100	0.04	100	0.11	100	-	-
ES0001R	pm25	0.08	16	0.07	16	0.01	16	0.09	16	0.08	16
ES0007R	pm10	0.25	99	0.46	99	0.06	99	0.2	99	0.12	16
ES0007R	pm25	0.1	16	0.19	16	0.03	16	0.16	16	0.06	16
ES0008R	pm10	1.68	99	0.25	99	0.22	99	0.16	99	1.79	16
ES0008R	pm25	0.34	16	0.09	16	0.04	16	0.08	16	0.2	16
ES0009R	pm10	0.15	99	0.27	99	0.03	99	0.04	99	0.15	16
ES0009R	pm25	0.06	16	0.11	16	0.01	16	0.04	16	0.13	16
ES0014R	pm10	0.43	95	0.41	95	0.05	95	0.14	95	0.13	16
ES0014R	pm25	0.09	16	0.11	16	0.02	16	0.1	16	0.09	16
FI0009R	aerosol	0.71	98	0.08	98	0.09	98	0.05	98	0.75	98
FI0018R	aerosol	0.23	98	0.08	98	0.03	98	0.05	98	0.15	98
FI0022R	aerosol	0.11	96	0.02	96	0.01	96	0.02	96	0.05	96
FI0036R	aerosol	0.15	96	0.01	95	0.02	96	0.02	96	0.16	96
FI0037R	aerosol	0.15	97	0.03	97	0.02	97	0.04	97	0.08	97
FR0013R	pm25	0.07	5	0.04	5	0.01	5	0.11	5	0.05	5
FR0023R	pm25	0.04	16	0.05	16	0	16	0.04	16	0.04	16
FR0024R	pm25	0.15	16	0.03	16	0.01	16	0.04	16	0.17	16
FR0025R	pm25	0.09	17	0.06	17	0.01	17	0.05	17	0.07	17
GB0036R	pm10	0.98	69	0.11	67	0.13	69	0.09	69	1.52	69
GB0036R	pm25	0.56	70	0.04	68	0.08	70	0.06	69	0.8	69
GB0048R	pm10	0.6	56	0.04	56	0.07	56	0.04	56	1.19	65
GB0048R	pm25	0.34	53	0.02	53	0.04	53	0.02	53	0.63	61
IE0001R	aerosol	2.09	72	0.11	72	0.25	72	0.1	72	3.75	72
IE0005R	aerosol	0.9	68	0.08	68	0.1	68	0.07	68	1.68	68
IE0006R	aerosol	2	99	0.09	99	0.23	99	0.09	99	3.73	99
IE0008R	aerosol	3.53	100	0.16	100	0.43	100	0.16	100	6.34	100
IS0002R	aerosol	0.49	97	0.18	97	0.2	97	0.06	97	1.26	97
IS0091R	aerosol	-	-	-	-	-	-	-	-	7.17	87
IT0004R	pm25	0.12	91	0.03	92	0.01	91	0.25	92	0.08	92
LV0010R	pm25	0.22	82	0.2	82	0.02	82	0.14	82	0.15	82
NL0008R	pm10	0.96	46	0.2	46	0.14	46	-	-	-	-
NL0091R	pm10	-	-	-	-	-	-	-	-	1.76	50
NL0644R	pm25	0.28	24	0.06	24	0.04	24	-	-	-	-
NO0002R	aerosol	0.61	99	0.07	99	0.08	99	0.06	99	0.81	99
NO0015R	aerosol	0.25	98	0.03	98	0.03	98	0.04	98	0.37	98
NO0039R	aerosol	0.16	99	0.03	99	0.02	99	0.03	99	0.21	100
NO0042G	aerosol	0.26	95	0.04	95	0.04	95	0.03	95	0.39	96
NO0056R	aerosol	0.16	96	0.05	96	0.02	96	0.05	96	0.14	96

Table 5 cont.

Code	Matrix	Na	capture	Ca	capture	Mg	capture	K	capture	Cl	capture
PL0002R	aerosol	-	-	-	-	-	-	-	-	0.76	99
PL0003R	aerosol	-	-	-	-	-	-	-	-	0.47	100
PL0004R	aerosol	-	-	-	-	-	-	-	-	1.03	99
PL0005R	pm25	0.15	81	0.08	81	0.02	81	0.11	81	0.06	81
SE0005R	aerosol	0.15	100	0.02	99	0.02	99	0.01	100	0.19	99
SE0011R	aerosol	0.71	96	0.1	95	0.09	95	0.1	96	0.7	96
SE0012R	aerosol	0.42	99	0.07	98	0.06	99	0.05	97	0.34	99
SE0014R	aerosol	2.29	99	0.14	99	0.28	99	0.12	99	3.42	99
SI0008R	aerosol	0.1	91	0.15	91	0.04	91	0.14	91	0.07	91
SI0008R	pm25	0.04	50	0.03	50	0.01	50	0.13	50	0.05	50
SK0002R	aerosol	-	-	-	-	-	-	-	-	0.12	69
SK0006R	aerosol	0.07	67	0.04	67	0.01	68	0.09	68	0.18	77

Table 6: Annual averages and data capture of particulate matter in 2015.

Code	PM10	capture	PM2.5	capture	PM1	capture
AT0002R	19.63	98	14.7	98	10.22	31
AT0005R	6.6	32	-	-	-	-
AT0048R	7.71	33	-	-	-	-
CH0001G	2.33	99	-	-	-	-
CH0002R	13.25	100	9.75	25	-	-
CH0003R	13.19	100	-	-	-	-
CH0004R	7.71	100	-	-	-	-
CH0005R	7.59	100	5.77	23	-	-
CY0002R	22.51	97	9.88	96	-	-
CZ0001R	17.32	48	-	-	-	-
CZ0003R	17.43	93	14.52	50	-	-
CZ0005R	9.02	95	-	-	-	-
DE0001R	19.34	96	-	-	-	-
DE0002R	16.35	98	12.05	100	7.29	100
DE0003R	10.14	98	7.98	92	-	-
DE0007R	14.79	100	10.27	100	-	-
DE0008R	11.29	100	8.11	99	-	-
DE0009R	14.9	98	-	-	-	-
DE0043G	10.15	97	-	-	-	-
DE0044R	19.36	95	14.73	96	-	-
EE0009R	6.54	100	5.21	99	-	-
EE0011R	-	-	4.2	93	-	-
ES0001R	13.51	99	6.62	97	-	-
ES0005R	6.4	81	-	-	-	-
ES0006R	17.99	92	7.03	86	-	-
ES0007R	17.7	98	10.35	92	-	-
ES0008R	16.34	99	7.05	96	-	-
ES0009R	9.1	99	4.82	94	-	-
ES0010R	17.4	94	8.49	90	-	-
ES0011R	15.27	95	8.46	95	-	-
ES0012R	15.11	84	5.96	98	-	-
ES0013R	9.23	94	5.79	90	-	-
ES0014R	14.28	95	8.34	96	-	-
ES0016R	9.84	98	8.31	83	-	-
ES0017R	16.96	97	-	-	-	-
FI0009R	-	-	4.97	99	-	-
FI0018R	9.17	98	5.29	98	-	-
FI0036R	-	-	3.43	97	-	-
FR0009R	-	-	14.91	81	-	-
FR0010R	-	-	9.68	88	-	-
FR0013R	15.83	54	8.72	30	-	-
FR0014R	14.27	90	-	-	-	-
FR0015R	15.43	95	10.55	88	-	-
FR0018R	15.29	97	8.19	93	-	-
FR0023R	8.87	96	6.18	96	-	-
FR0024R	13.88	96	9.03	96	-	-
FR0025R	-	-	11.65	96	-	-
GB0006R	0.81	95	-	-	-	-
GB0036R	4.06	89	2.49	96	-	-
GB0043R	2.62	86	-	-	-	-
GB0048R	1.57	72	0.42	95	-	-
GR0001R	31.86	63	-	-	-	-
HU0002R	-	-	17.35	98	-	-
IT0001R	27.05	96	-	-	-	-
IT0004R	-	-	17.5	91	-	-
LV0010R	15.53	81	10.47	74	-	-
MK0007R	13.08	34	-	-	-	-
NL0007R	17.66	99	-	-	-	-
NL0009R	15.35	99	10.83	36	-	-
NL0010R	19.5	95	12.28	46	-	-

Table 6 cont.

Code	PM10	capture	PM2.5	capture	PM1	capture
NL0091R	16.75	99	9.51	96	-	-
NL0644R	16.93	100	11.31	65	-	-
NO0002R	5.39	96	2.7	90	-	-
NO0039R	2.31	96	1.51	100	-	-
NO0056R	4.15	100	2.75	98	-	-
PL0005R	17.32	96	12.49	96	-	-
PL0009R	17.52	98	-	-	-	-
RS0005R	17.87	79	-	-	-	-
SE0005R	3.46	96	2.26	93	-	-
SE0011R	10.91	52	5.38	34	-	-
SE0012R	7.95	76	5.69	87	-	-
SE0014R	15.15	99	5.02	91	-	-
SI0008R	12.51	98	10.02	100	-	-

Table 7: Annual averages and data capture for carbonaceous compounds in 2015.

Code	Matrix	OC	capture	EC	capture	TC	capture
CH0002R	pm25	2.08	8	0.42	8	-	-
CH0005R	pm25	1.19	8	0.29	8	-	-
CY0002R	pm10	1.48	82	0.17	82	-	-
CZ0003R	pm25	2.36	4	0.44	4	2.79	4
DE0002R	pm25	2.87	17	0.3	17	3.17	17
DE0003R	pm25	1.57	17	0.11	17	1.68	17
DE0007R	pm25	2.81	17	0.33	17	3.14	17
DE0008R	pm25	1.84	17	0.21	17	2.04	17
DE0044R	pm25	2.77	98	0.36	98	3.13	98
ES0001R	pm25	1.99	14	0.14	14	-	-
ES0009R	pm25	1.82	14	0.13	14	-	-
FR0009R	pm25	1.78	16	0.22	16	1.99	16
FR0013R	pm25	2.39	5	0.24	5	2.64	5
FR0023R	pm25	2.37	16	0.19	16	2.56	16
FR0024R	pm25	2.03	16	0.34	16	2.37	16
FR0025R	pm25	2.35	17	0.22	17	2.56	17
HU0002R	pm10	-	-	-	-	7.17	5
IT0004R	pm25	5.58	81	1.2	81	6.78	81
NL0644R	pm25	2.28	25	0.29	25	2.57	25
NO0002R	pm10	0.72	98	0.09	98	0.81	98
NO0002R	pm25	0.52	88	0.08	88	0.6	88
NO0039R	pm10	0.64	98	0.04	98	0.68	98
NO0039R	pm25	0.47	100	0.05	100	0.52	100
NO0056R	pm10	0.99	100	0.14	100	1.14	100
NO0056R	pm25	0.73	100	0.13	100	0.86	100
PL0005R	pm25	3.5	94	0.48	94	-	-
SE0011R	pm10	1.29	99	0.23	99	1.51	99
SI0008R	pm25	3.23	50	0.29	50	-	-

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 29 June, 2017.

Scientific use of the EMEP data should be based on fresh copies of the data. Copies can be requested from the CCC (e-mail: annehj@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

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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
The 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

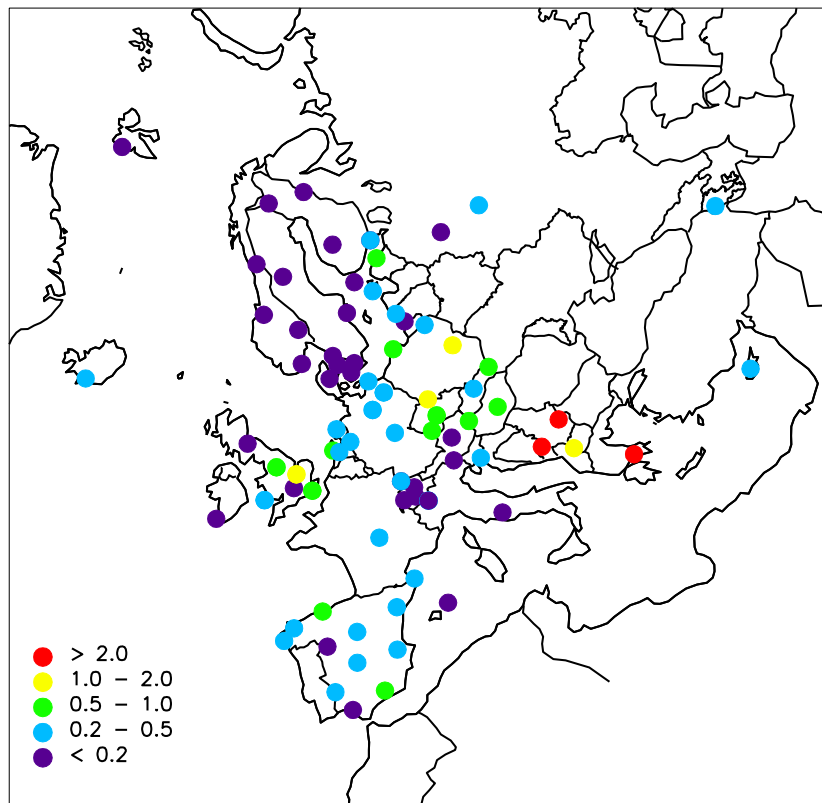


Figure 1.1: Geographical distribution of sulphur dioxide 2015. Unit: $\mu\text{g S}/\text{m}^3$.

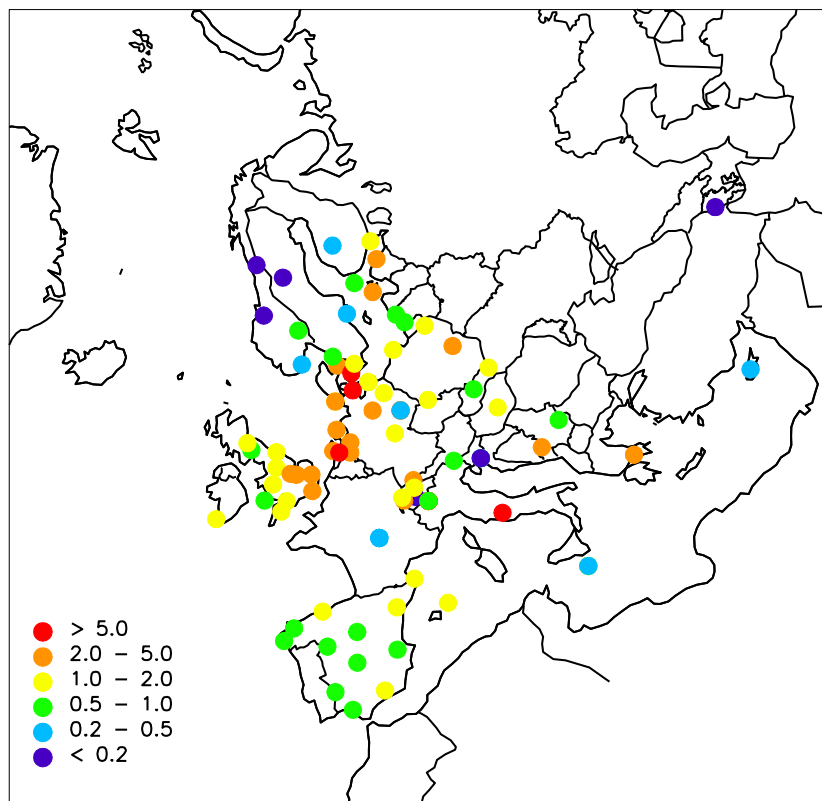


Figure 1.2: Geographical distribution of nitrogen dioxide 2015. Unit: $\mu\text{g N}/\text{m}^3$.

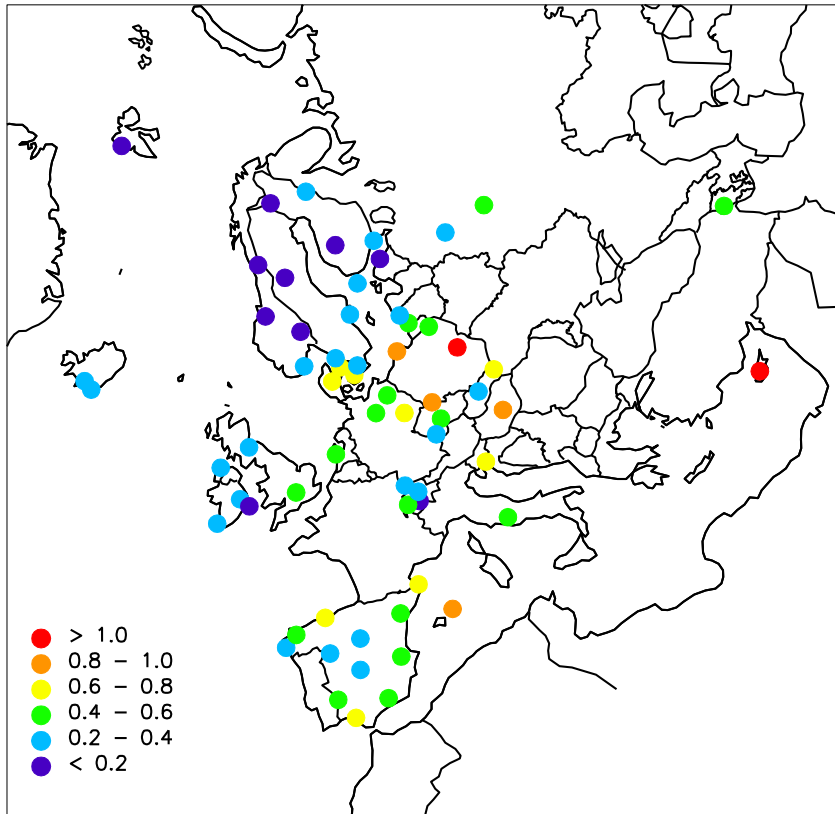


Figure 1.3: Geographical distribution of sulphate in aerosols 2015. Unit: $\mu\text{g S}/\text{m}^3$.

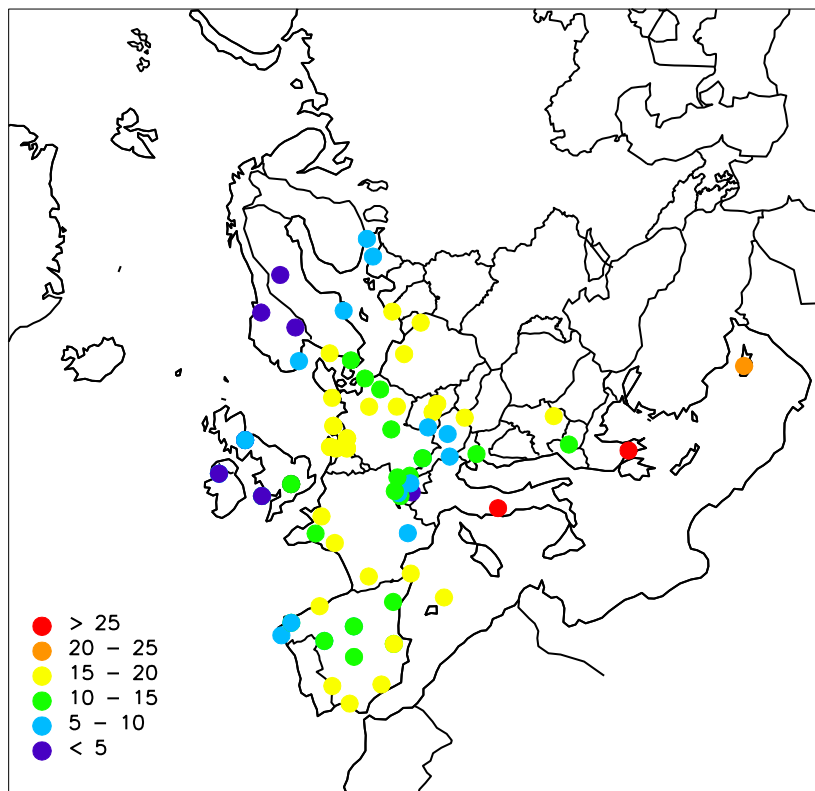


Figure 1.4: Geographical distribution of PM_{10} 2015. Unit: $\mu\text{g}/\text{m}^3$.

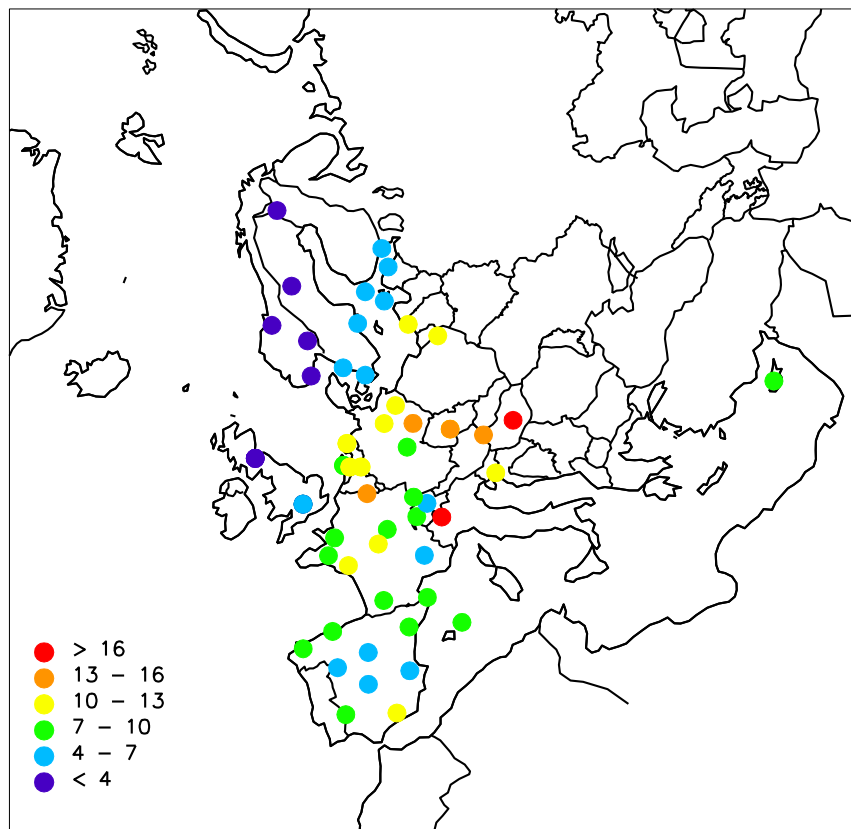


Figure 1.5: Geographical distribution of $PM_{2.5}$ 2015. Unit: $\mu g/m^3$.

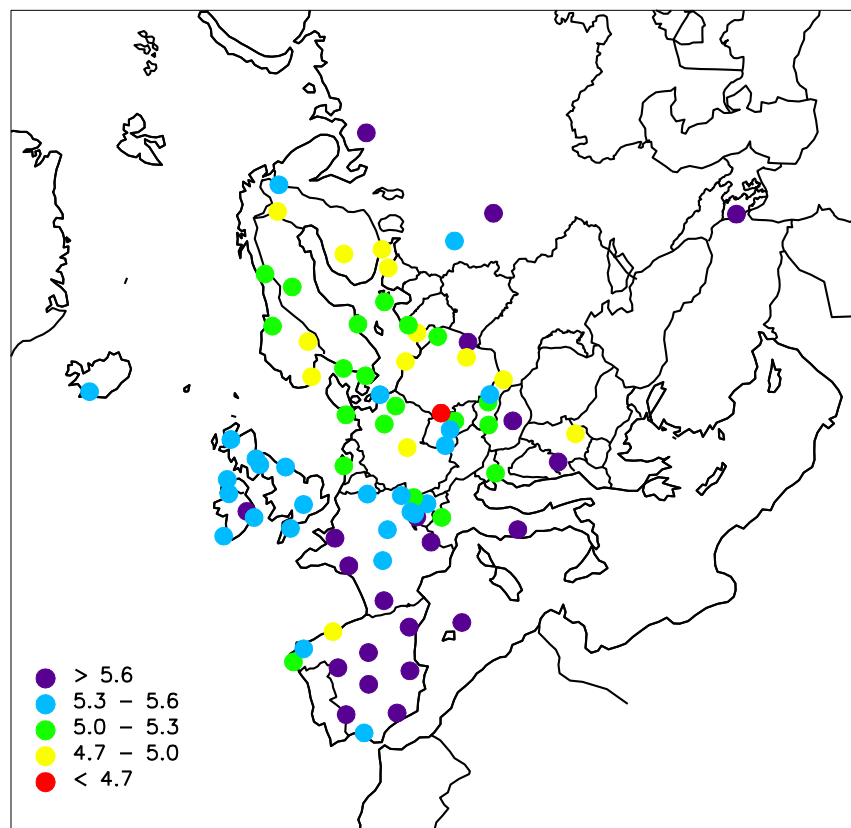


Figure 1.6: Geographical distribution of pH in precipitation 2015. Unit: pH units.

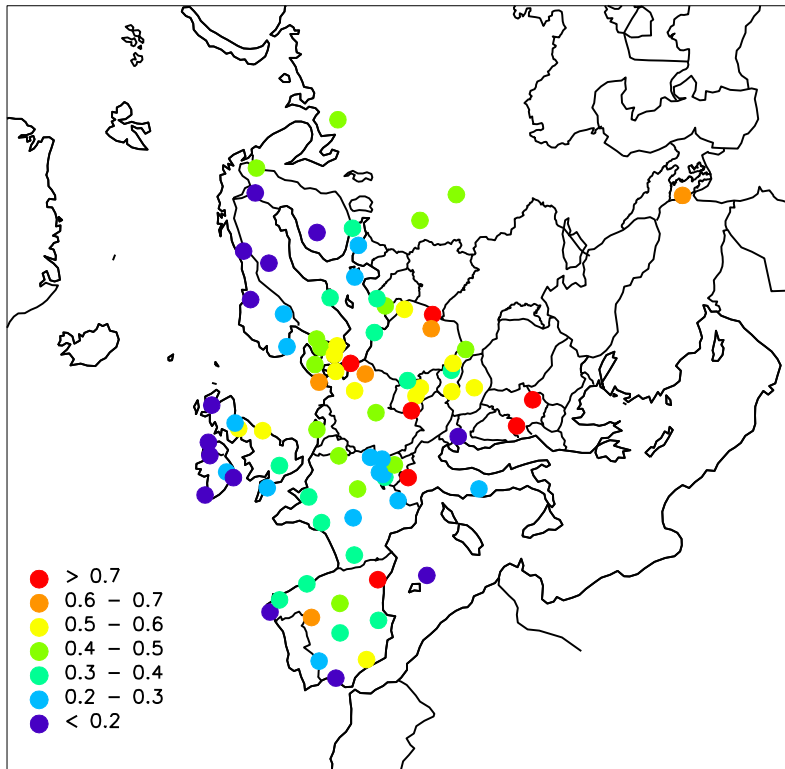


Figure 1.7: Geographical distribution of ammonium in precipitation 2015.
Unit: mg N/l.

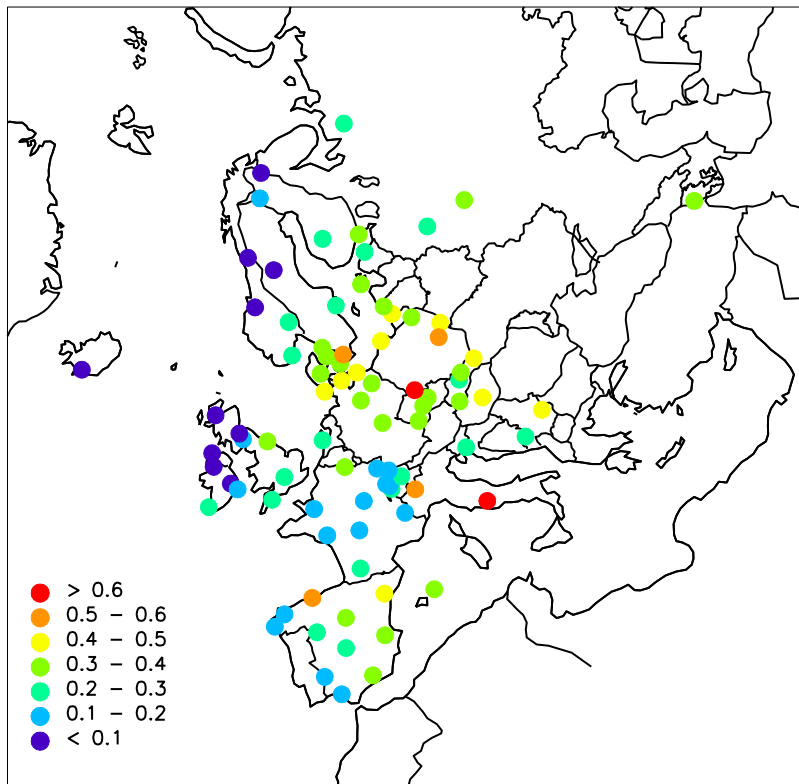


Figure 1.8: Geographical distribution of nitrate in precipitation 2015.
Unit: mg N/l.

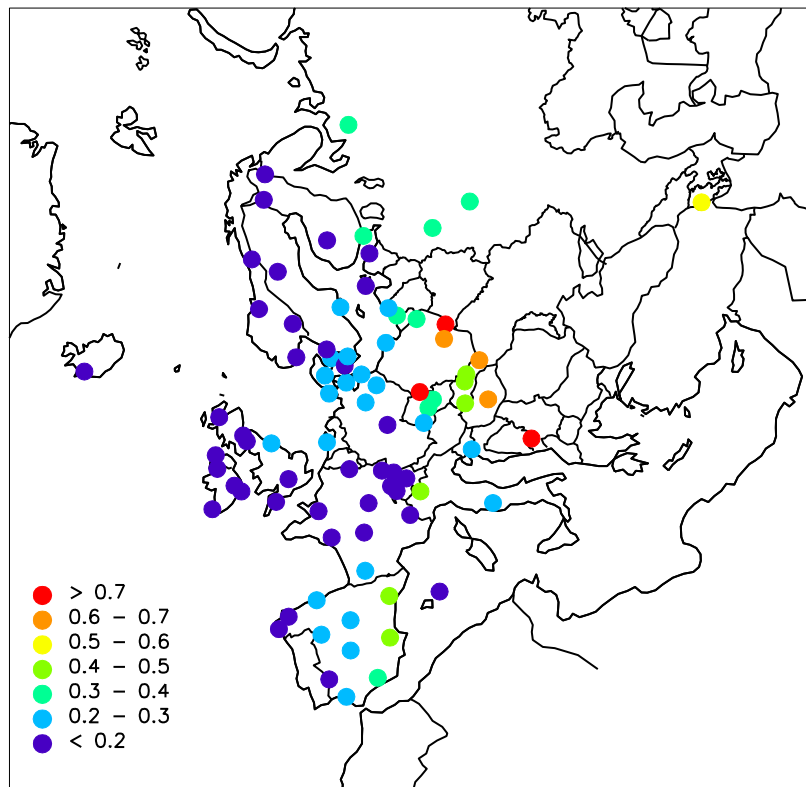


Figure 1.9: Geographical distribution of sulphate in precipitation 2015 (corrected for sea spray). Unit: mg S/l.

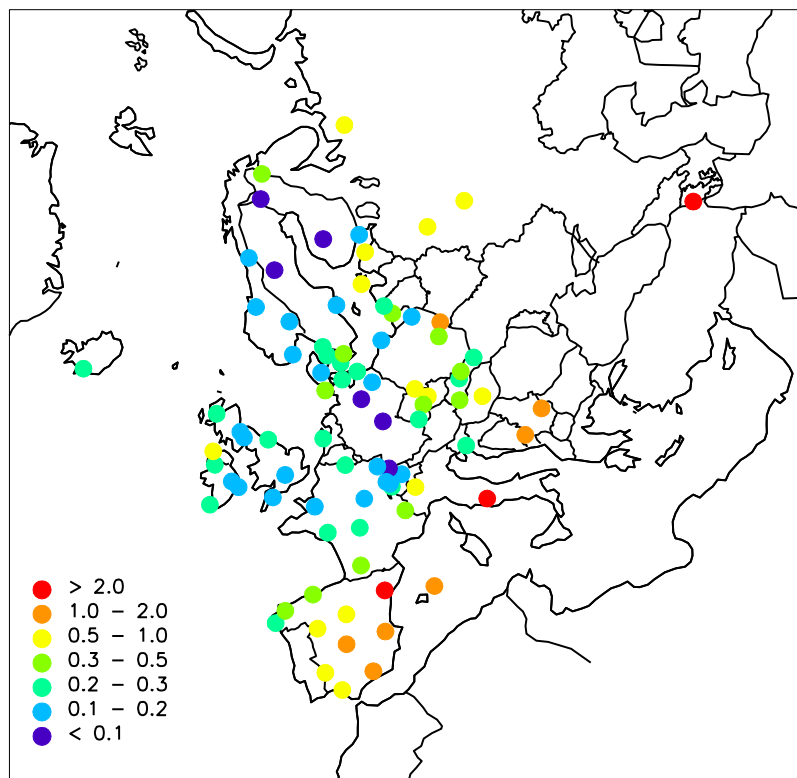


Figure 1.10: Geographical distribution of calcium in precipitation 2015. Unit: mg/l.

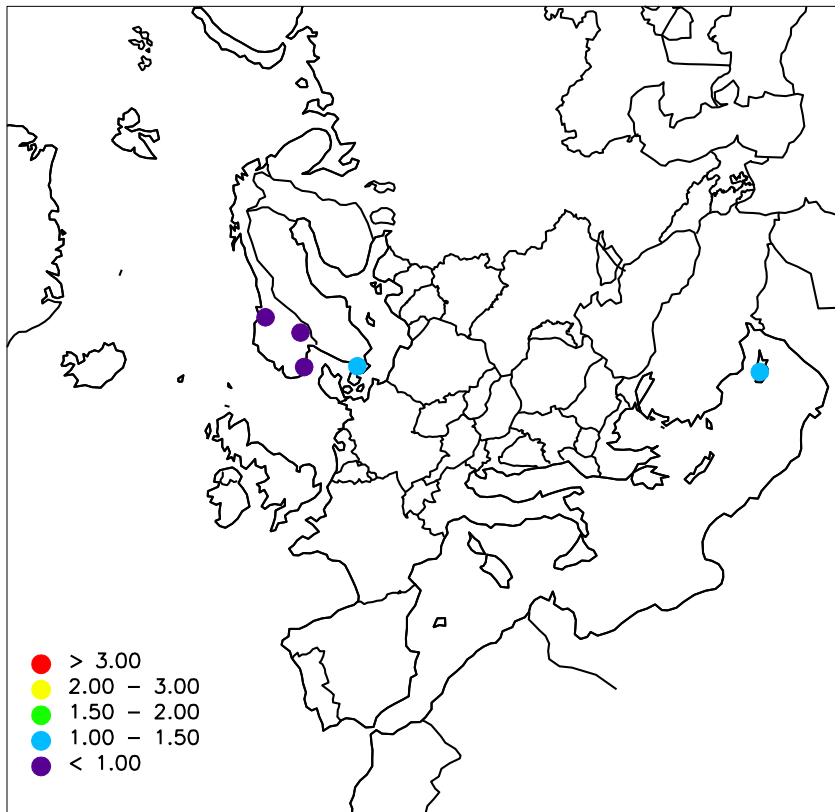


Figure 1.11: Geographical distribution of OC in PM₁₀ 2015. Unit: $\mu\text{g}/\text{m}^3$.

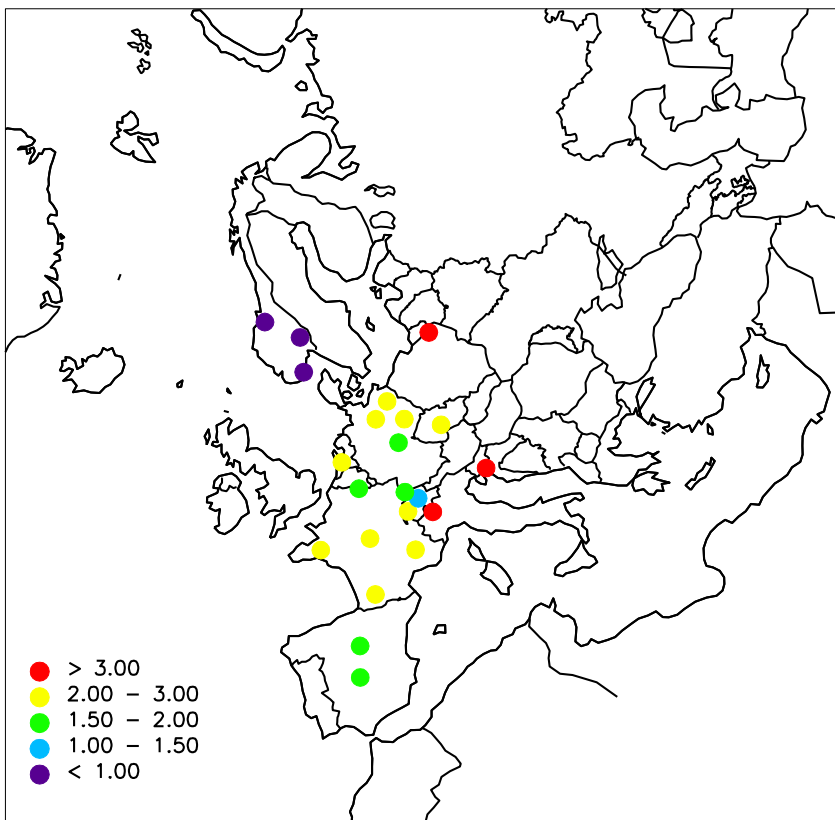


Figure 1.12: Geographical distribution of OC in PM_{2.5} 2015. Unit: $\mu\text{g}/\text{m}^3$.

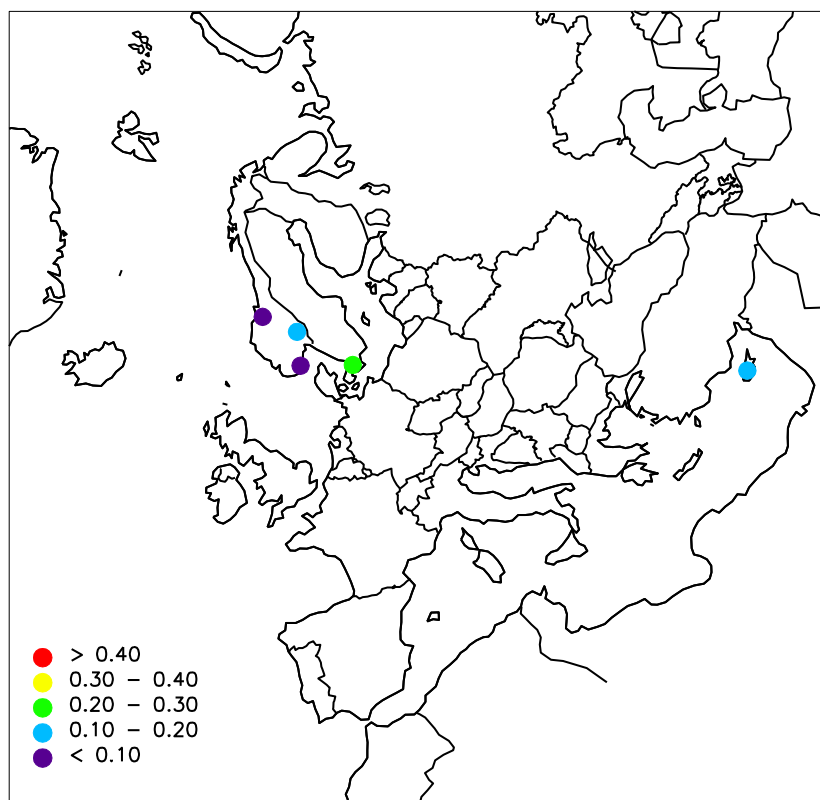


Figure 1.13: Geographical distribution of EC in PM_{10} 2015. Unit: $\mu\text{g}/\text{m}^3$.

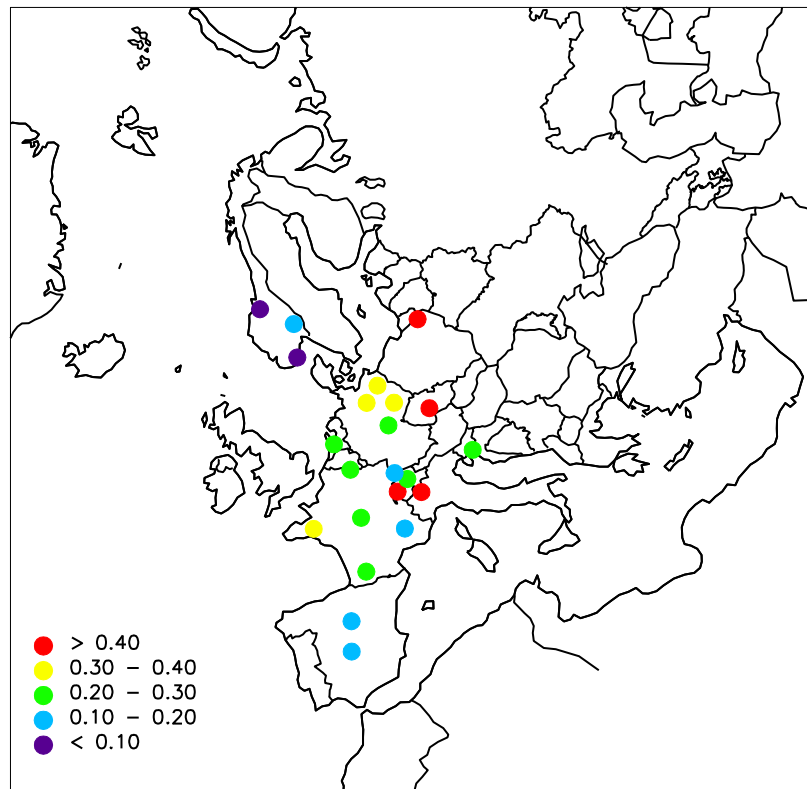


Figure 1.14: Geographical distribution of EC in $PM_{2.5}$ 2015. Unit: $\mu\text{g}/\text{m}^3$.

Annex 2

Annual statistics on precipitation data

AM0001R Amberd
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	3.45	0.19	24.70	1148.1	100.0	0	67
Cl-	precip	1.00	0.06	8.14	333.9	100.0	0	67
K+	precip	0.57	0.03	2.97	189.9	92.9	0	60
Mg++	precip	0.27	0.01	4.29	90.4	100.0	0	67
NH4+	precip	0.61	0.06	1.81	202.0	100.0	0	67
NO3-	precip	0.30	0.01	1.82	100.5	100.0	0	67
Na+	precip	0.56	0.01	3.87	187.7	93.0	0	61
Precip off	precip	-	0.00	17.60	333.0	70.9	0	126
SO4--	precip	0.60	0.02	4.83	199.3	100.0	0	67
SO4-- corr	precip	0.54	-0.14	4.80	180.0	100.0	0	67
cond	precip	29.24	2.60	154.00	9736.6	100.0	0	67
pH	precip	6.34	5.15	7.93	152.6	100.0	0	67

BY0004R Vysokoe
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.90	0.13	14.15	924.6	78.5	0	77
Cl-	precip	1.31	0.23	5.27	635.0	39.9	0	36
K+	precip	0.71	0.04	10.38	344.7	78.5	0	77
Mg++	precip	0.42	0.03	2.94	202.7	78.1	0	76
NH4+	precip	0.90	0.10	6.32	437.3	79.8	0	79
NO3-	precip	0.47	0.14	1.76	230.0	72.5	0	68
Na+	precip	1.58	0.17	12.15	770.3	78.5	0	77
Precip	precip	-	0.00	28.60	486.2	100.0	0	366
SO4--	precip	1.25	0.24	6.76	606.3	69.5	0	68
SO4-- corr	precip	1.09	0.18	6.21	529.5	69.1	0	67
cond	precip	38.22	15.00	62.00	18583.8	80.6	0	81
pH	precip	6.12	5.00	7.10	372.0	80.6	0	81

CH0002R Payerne
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.03	2.88	155.2	99.8	0	45
Cl-	precip	0.15	0.02	0.84	107.0	99.8	0	45
K+	precip	0.03	0.00	0.55	23.2	99.8	0	45
Mg++	precip	0.02	0.00	0.20	13.7	99.8	0	45
NH4+	precip	0.37	0.10	2.98	256.8	99.8	0	45
NO3-	precip	0.22	0.06	2.85	155.9	99.8	0	45
Na+	precip	0.08	0.01	0.60	59.4	99.8	0	45
Precip	precip	-	0.00	102.60	699.6	100.0	0	53
SO4--	precip	0.13	0.03	0.98	89.9	99.8	0	45
SO4-- corr	precip	0.12	0.03	0.93	84.9	99.8	0	45
cond	precip	6.57	2.47	48.57	4593.7	100.0	0	47
pH	precip	5.72	4.49	6.98	1319.9	100.0	0	47

CH0004R Chaumont
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.02	1.55	142.0	99.9	0	46
Cl-	precip	0.11	0.01	1.32	104.8	99.9	0	46
K+	precip	0.02	0.00	1.02	22.1	99.9	0	46
Mg++	precip	0.01	0.00	0.10	13.7	99.9	0	46
NH4+	precip	0.23	0.03	2.54	221.5	99.9	0	46
NO3-	precip	0.16	0.03	1.67	151.1	99.9	0	46
Na+	precip	0.06	0.01	0.73	60.5	99.9	0	46
Precip	precip	-	0.00	139.40	945.4	100.0	0	53
SO4--	precip	0.11	0.02	0.69	106.2	99.9	0	46
SO4-- corr	precip	0.11	0.02	0.68	101.1	99.9	0	46
cond	precip	5.47	1.88	40.78	5168.0	99.9	0	46
pH	precip	5.42	4.30	6.93	3590.0	99.9	0	46

CH0005R Rigi
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.03	1.14	185.3	100.0	0	46
Cl-	precip	0.08	0.01	0.36	102.5	100.0	0	46
K+	precip	0.03	0.01	0.15	35.2	100.0	0	46
Mg++	precip	0.01	0.00	0.07	15.7	100.0	0	46
NH4+	precip	0.45	0.07	1.83	569.6	100.0	0	46
NO3-	precip	0.27	0.05	1.53	348.0	100.0	0	46
Na+	precip	0.05	0.01	0.27	64.8	100.0	0	46
Precip	precip	-	0.00	150.00	1266.0	100.0	0	53
SO4--	precip	0.14	0.01	0.48	182.7	100.0	0	46
SO4-- corr	precip	0.14	0.01	0.47	177.1	100.0	0	46
cond	precip	7.10	1.83	26.77	8991.7	100.0	0	46
pH	precip	5.58	4.76	6.66	3337.2	100.0	0	46

CZ0001R Svratouch
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.00	0.04	12.99	567.3	96.0	0	36
Cl-	precip	0.20	0.03	0.59	114.1	96.0	0	36
K+	precip	0.07	0.01	0.38	38.0	96.0	0	36
Mg++	precip	0.03	0.00	0.14	15.4	96.0	0	36
NH4+	precip	0.51	0.01	2.75	293.2	96.0	2	36
NO3-	precip	0.38	0.02	2.17	215.7	96.0	0	36
Na+	precip	0.12	0.01	0.46	66.5	96.0	0	36
Precip	precip	-	0.00	51.30	570.0	99.9	0	53
SO4--	precip	0.34	0.03	1.33	196.3	96.0	0	36
SO4-- corr	precip	0.33	0.03	1.30	190.5	96.0	0	36
cond	precip	15.61	2.15	56.30	8899.2	96.0	0	36
pH	precip	5.29	4.69	7.00	2890.6	96.0	0	36

CZ0003R Kosetice (NOAK)
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.33	0.01	1.92	194.3	86.0	1	72
Cl-	precip	0.19	0.02	6.42	110.9	86.0	0	72
K+	precip	0.08	0.00	1.25	46.7	86.0	3	72
Mg++	precip	0.03	0.00	0.28	16.3	86.0	0	72
NH4+	precip	0.50	0.04	5.69	293.2	86.0	0	72
NO3-	precip	0.33	0.05	3.06	191.5	86.0	0	72
Na+	precip	0.15	0.01	15.70	88.0	86.0	0	72
Precip	precip	-	0.00	30.20	581.8	100.0	0	366
SO4--	precip	0.32	0.01	3.05	186.8	86.0	1	72
SO4-- corr	precip	0.31	0.00	2.85	181.8	86.0	1	72
cond	precip	14.48	2.27	96.30	8422.8	86.0	0	72
pH	precip	5.32	4.18	6.98	2815.9	86.0	0	72

CZ0005R Churanov
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.26	0.01	1.75	192.2	98.3	1	43
Cl-	precip	0.23	0.00	0.96	168.8	98.3	1	43
K+	precip	0.11	0.01	1.30	83.7	98.3	0	43
Mg++	precip	0.03	0.01	0.15	24.5	98.3	0	43
NH4+	precip	0.72	0.06	12.59	533.2	97.9	0	42
NO3-	precip	0.37	0.12	5.65	275.5	98.3	0	43
Na+	precip	0.13	0.02	0.62	93.9	98.3	0	43
Precip	precip	-	0.00	66.90	743.3	99.9	0	53
SO4--	precip	0.28	0.04	3.77	211.1	98.3	0	43
SO4-- corr	precip	0.27	0.04	3.75	202.9	98.3	0	43
cond	precip	13.07	5.17	51.10	9711.5	98.3	0	43
pH	precip	5.32	4.46	6.81	3534.5	98.3	0	43

DE0001R Westerland
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.35	0.01	3.72	302.1	98.1	1	44
Cl-	precip	12.25	0.39	99.23	10450.1	98.1	0	44
K+	precip	0.27	0.03	2.01	233.1	98.1	0	44
Mg++	precip	0.83	0.01	6.48	703.7	98.1	1	44
NH4+	precip	0.62	0.15	2.94	532.6	98.1	0	44
NO3-	precip	0.43	0.08	1.33	369.9	98.1	0	44
Na+	precip	6.82	0.19	54.17	5816.3	98.1	0	44
Precip	precip	-	0.00	68.63	852.9	97.3	0	51
SO4--	precip	0.79	0.14	5.00	673.9	98.1	0	44
SO4-- corr	precip	0.22	0.03	0.89	187.1	98.1	0	44
cond	precip	56.73	8.53	388.30	48383.5	96.9	0	43
pH	precip	5.23	4.63	6.42	5055.2	98.1	0	44

DE0002R Waldhof
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	1.14	66.8	97.8	31	123
Cl-	precip	0.66	0.01	11.28	465.9	92.0	3	118
K+	precip	0.05	0.00	0.70	34.9	97.8	12	123
Mg++	precip	0.05	0.00	0.72	32.0	97.8	28	123
NH4+	precip	0.57	0.00	2.95	398.3	97.8	1	123
NO3-	precip	0.33	0.05	1.76	229.3	94.7	0	119
Na+	precip	0.34	0.00	5.89	241.4	97.8	12	123
Precip	precip	-	0.00	37.50	703.2	100.0	0	366
SO4--	precip	0.27	0.03	0.92	190.3	94.7	0	119
SO4-- corr	precip	0.24	0.03	0.92	169.7	94.7	0	119
cond	precip	11.78	2.38	51.20	8280.7	95.7	0	121
pH	precip	5.25	4.21	6.58	3959.4	97.8	0	123

DE0003R Schauinsland
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.06	0.01	4.38	81.7	94.5	59	121
Cl-	precip	0.25	0.04	4.58	341.8	94.5	0	121
K+	precip	0.03	0.01	0.44	38.6	94.5	21	121
Mg++	precip	0.01	0.01	0.34	19.7	94.5	68	121
NH4+	precip	0.26	0.00	3.13	356.8	94.5	2	121
NO3-	precip	0.19	0.03	2.23	260.9	94.5	0	121
Na+	precip	0.18	0.01	2.93	238.8	94.5	0	121
Precip	precip	-	0.00	110.00	1350.0	100.0	0	366
SO4--	precip	0.14	0.02	1.07	189.4	94.5	0	121
SO4-- corr	precip	0.13	0.02	1.04	171.8	94.5	0	121
cond	precip	7.20	2.40	56.18	9715.0	94.5	0	121
pH	precip	5.23	4.25	6.82	7969.4	94.5	0	121

DE0007R Neuglobsow
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.01	0.86	70.0	97.3	11	115
Cl-	precip	0.66	0.02	23.93	381.1	97.3	0	115
K+	precip	0.09	0.01	1.21	51.3	97.3	0	115
Mg++	precip	0.05	0.00	1.57	27.6	97.3	19	115
NH4+	precip	0.63	0.00	4.28	362.9	97.3	1	115
NO3-	precip	0.39	0.07	2.20	224.2	97.3	0	115
Na+	precip	0.36	0.00	13.48	210.4	97.3	4	115
Precip	precip	-	0.00	24.70	577.4	100.0	0	366
SO4--	precip	0.27	0.03	1.55	155.3	97.3	0	115
SO4-- corr	precip	0.24	0.03	1.01	138.2	97.3	0	115
cond	precip	12.37	2.84	102.30	7142.7	97.3	0	115
pH	precip	5.09	4.09	6.61	4730.4	97.3	0	115

DE0008R Schmücke
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.03	0.01	1.12	31.4	99.9	31	45
Cl-	precip	0.72	0.05	22.26	728.1	99.9	0	45
K+	precip	0.04	0.01	0.49	37.7	99.9	0	45
Mg++	precip	0.01	0.01	1.43	12.0	99.9	34	45
NH4+	precip	0.47	0.14	2.73	476.2	99.9	0	45
NO3-	precip	0.34	0.17	1.57	344.7	99.9	0	45
Na+	precip	0.43	0.02	11.54	440.6	99.9	0	45
Precip	precip	-	0.00	94.90	1015.1	99.3	0	52
SO4--	precip	0.20	0.07	1.76	205.9	99.9	0	45
SO4-- corr	precip	0.17	0.01	0.79	169.2	99.9	0	45
cond	precip	10.59	4.99	101.70	10747.0	99.9	0	45
pH	precip	4.97	4.17	6.40	10864.5	99.9	0	45

DE0009R Zingst
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.24	0.01	1.33	134.2	99.8	2	44
Cl-	precip	2.79	0.15	20.34	1537.0	99.8	0	44
K+	precip	0.18	0.02	1.02	97.8	99.8	0	44
Mg++	precip	0.20	0.01	1.34	109.9	99.8	1	44
NH4+	precip	0.99	0.10	7.35	546.1	99.8	0	44
NO3-	precip	0.44	0.16	3.30	243.1	99.8	0	44
Na+	precip	1.58	0.06	11.42	871.1	99.8	0	44
Precip	precip	-	0.00	39.68	550.3	99.3	0	52
SO4--	precip	0.42	0.13	2.30	230.6	99.8	0	44
SO4-- corr	precip	0.29	0.05	2.28	157.6	99.8	0	44
cond	precip	23.89	9.05	89.40	13147.4	99.8	0	44
pH	precip	5.32	4.69	7.31	2648.8	99.8	0	44

DK0005R Keldsnor
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.23	0.04	0.77	134.5	93.5	2	20
Cl-	precip	3.80	0.41	20.40	2192.6	98.0	0	21
K+	precip	0.20	0.01	0.55	114.6	98.0	4	21
Mg++	precip	0.27	0.03	1.37	158.2	98.0	3	21
NH4+	precip	0.59	0.18	1.25	338.5	98.0	0	21
NO3-	precip	0.41	0.21	1.19	237.0	98.0	0	21
Precip	precip	-	0.14	65.85	577.6	91.2	0	22
SO4--	precip	0.41	0.10	1.27	236.8	98.0	0	21
SO4-- corr	precip	0.23	0.07	0.89	132.3	98.0	0	21

DK0008R Anholt
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.08	0.58	93.9	99.8	0	18
Cl-	precip	6.49	0.55	26.41	3039.8	96.4	0	18
K+	precip	0.13	0.01	0.53	61.2	99.8	3	18
Mg++	precip	0.38	0.04	1.68	177.3	99.8	1	18
NH4+	precip	0.43	0.12	1.30	201.5	96.4	0	18
NO3-	precip	0.37	0.07	1.26	174.3	96.4	1	17
Precip	precip	-	0.40	60.59	468.5	83.0	0	20
SO4--	precip	0.49	0.22	1.36	230.1	96.4	0	18
SO4-- corr	precip	0.23	0.11	0.62	106.9	96.4	0	18

DK0021R - Risoe
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.04	0.86	113.8	88.6	1	18
Cl-	precip	2.43	0.66	17.23	1369.8	83.0	0	18
K+	precip	0.15	0.00	0.62	84.8	85.8	4	17
Mg++	precip	0.17	0.02	1.08	98.3	86.4	1	18
NH4+	precip	0.51	0.15	1.49	285.2	84.6	0	17
NO3-	precip	0.34	0.13	0.89	192.8	85.0	0	19
Precip	precip	-	1.31	66.72	562.9	91.2	0	22
SO4--	precip	0.30	0.13	0.90	170.9	90.9	0	20
SO4-- corr	precip	0.20	0.03	0.59	110.9	90.9	0	20

DK0022R - Sepstrup Sande
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.05	0.43	88.9	76.0	2	18
Cl-	precip	3.24	0.67	9.45	1873.4	76.0	0	18
K+	precip	0.11	0.01	0.28	65.9	76.0	2	18
Mg++	precip	0.22	0.05	0.63	128.3	76.0	0	18
NH4+	precip	0.45	0.11	1.30	260.6	76.0	0	18
NO3-	precip	0.38	0.17	0.94	216.6	73.0	0	17
Precip	precip	-	0.14	65.85	577.6	91.2	0	22
SO4--	precip	0.37	0.14	0.99	212.5	76.0	0	18
SO4-- corr	precip	0.22	0.06	0.85	127.7	76.0	0	18

EE0009R Lahemaa
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.59	0.02	5.40	321.9	100.0	18	133
Cl-	precip	0.56	0.05	26.00	306.2	100.0	17	133
K+	precip	0.08	0.01	9.70	41.1	100.0	37	133
Mg++	precip	0.09	0.01	0.71	49.8	100.0	26	133
NH4+	precip	0.20	0.01	2.80	110.2	100.0	31	133
NO3-	precip	0.24	0.01	3.50	128.2	99.9	17	132
Na+	precip	0.45	0.01	13.00	247.5	100.0	13	133
Precip	precip	-	0.00	17.52	544.4	100.0	232	366
SO4--	precip	0.22	0.03	2.87	121.2	100.0	0	133
SO4-- corr	precip	0.19	-0.05	2.48	104.2	100.0	0	133
cond	precip	9.09	2.40	51.70	4949.8	99.2	0	126
pH	precip	4.91	3.98	7.00	6774.4	99.2	0	126

EE0011R Vilsandi
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.76	0.00	2.60	399.8	100.0	3	23
Cl-	precip	1.40	0.30	19.00	731.4	100.0	0	23
K+	precip	0.11	0.01	3.10	59.9	100.0	3	23
Mg++	precip	0.23	0.01	1.50	118.1	100.0	3	23
NH4+	precip	0.28	0.01	6.40	146.3	100.0	4	23
NO3-	precip	0.39	0.06	1.80	204.6	100.0	0	23
Na+	precip	1.35	0.02	9.30	708.0	100.0	0	23
Precip	precip	-	0.00	49.40	523.3	45.3	0	24
SO4--	precip	0.27	0.14	1.37	140.0	100.0	0	23
SO4-- corr	precip	0.19	-0.04	0.75	96.9	100.0	0	23
cond	precip	14.23	6.00	81.00	7445.2	100.0	0	23
pH	precip	5.13	4.71	7.62	3868.6	100.0	0	23

ES0001R San Pablo de los Montes
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.04	0.05	7.40	415.0	97.9	3	46
Cl-	precip	0.37	0.15	2.25	146.0	99.2	19	52
K+	precip	0.08	0.03	0.39	33.2	97.9	13	46
Mg++	precip	0.07	0.01	0.28	26.9	97.9	1	46
NH4+	precip	0.33	0.02	1.54	132.1	99.0	4	51
NO3-	precip	0.22	0.04	1.57	87.6	99.2	6	52
Na+	precip	0.24	0.05	1.43	95.0	97.9	7	46
Precip	precip	-	0.00	25.48	397.4	100.0	0	366
SO4--	precip	0.29	0.05	1.35	116.6	99.2	9	52
SO4-- corr	precip	0.27	0.04	1.31	108.4	99.2	9	52
cond	precip	16.16	3.30	1307.00	6420.6	100.0	0	59
pH	precip	5.71	4.34	6.98	778.4	100.0	0	59

ES0005R Noya
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.05	1.88	408.3	99.7	16	132
Cl-	precip	3.03	0.15	25.89	6021.3	100.0	1	138
K+	precip	0.11	0.03	0.58	211.1	99.7	22	132
Mg++	precip	0.24	0.03	2.50	471.7	99.7	0	132
NH4+	precip	0.09	0.02	1.24	179.7	99.9	39	137
NO3-	precip	0.12	0.04	1.53	232.6	100.0	51	138
Na+	precip	2.02	0.17	19.10	4016.0	99.7	0	132
Precip	precip	-	0.00	64.00	1987.3	100.0	0	366
SO4--	precip	0.34	0.05	1.58	684.8	100.0	2	138
SO4-- corr	precip	0.18	-0.38	1.39	356.4	100.0	2	138
cond	precip	17.89	4.20	106.00	35558.0	100.0	0	140
pH	precip	5.20	4.01	6.33	12652.1	100.0	0	140

ES0006R Mahon
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.68	0.29	13.30	876.9	99.0	0	42
Cl-	precip	27.89	5.07	509.87	14578.8	99.5	0	45
K+	precip	0.76	0.16	9.10	398.1	99.0	0	42
Mg++	precip	2.24	0.37	23.50	1169.6	99.0	0	42
NH4+	precip	0.20	0.02	3.58	104.3	99.4	7	44
NO3-	precip	0.39	0.04	3.76	204.4	99.5	2	45
Na+	precip	18.15	3.70	294.00	9487.8	99.0	0	42
Precip	precip	-	0.00	102.00	522.7	99.9	0	365
SO4--	precip	1.66	0.36	24.15	870.0	99.5	0	45
SO4-- corr	precip	0.14	-4.63	4.11	74.5	99.5	0	45
cond	precip	115.88	24.70	1615.00	60572.8	99.5	0	45
pH	precip	5.75	4.71	6.94	930.2	99.5	0	45

ES0007R Viznar
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.62	0.43	11.40	713.6	98.3	0	50
Cl-	precip	0.82	0.15	5.29	359.9	99.8	6	58
K+	precip	0.22	0.05	2.00	98.0	98.3	0	50
Mg++	precip	0.22	0.07	1.50	96.1	98.3	0	50
NH4+	precip	0.53	0.07	2.88	235.6	99.3	0	55
NO3-	precip	0.33	0.04	2.16	143.8	99.8	1	58
Na+	precip	0.31	0.05	2.00	138.7	98.3	6	50
Precip	precip	-	0.00	70.40	440.6	100.0	0	366
SO4--	precip	0.41	0.05	2.10	179.7	99.8	4	58
SO4-- corr	precip	0.38	0.04	2.05	167.0	99.8	4	58
cond	precip	18.51	5.30	82.60	8156.8	100.0	0	60
pH	precip	6.31	5.80	7.54	215.0	100.0	0	60

ES0008R Niembro
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.49	0.05	3.61	537.9	99.8	1	132
Cl-	precip	6.71	0.35	47.05	7442.7	100.0	0	137
K+	precip	0.18	0.03	1.00	198.6	99.8	12	132
Mg++	precip	0.54	0.04	3.50	599.7	99.8	0	132
NH4+	precip	0.32	0.02	4.84	353.4	99.9	1	134
NO3-	precip	0.52	0.04	8.91	572.7	99.9	8	136
Na+	precip	4.52	0.21	31.00	5008.6	99.8	0	132
Precip	precip	-	0.00	50.19	1108.4	100.0	0	366
SO4--	precip	0.61	0.11	2.72	674.8	100.0	0	137
SO4-- corr	precip	0.23	-0.90	1.73	259.1	100.0	0	137
cond	precip	41.15	4.80	271.90	45615.0	99.9	0	136
pH	precip	4.76	3.24	6.66	19074.6	99.9	0	136

ES0009R Campisabalos
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.90	0.10	9.60	305.9	99.2	0	70
Cl-	precip	0.37	0.15	2.46	126.3	99.9	22	75
K+	precip	0.06	0.03	0.53	20.3	99.2	26	70
Mg++	precip	0.07	0.01	0.41	25.4	99.2	2	70
NH4+	precip	0.44	0.02	2.29	148.8	99.8	1	74
NO3-	precip	0.33	0.04	2.28	110.8	99.9	3	75
Na+	precip	0.18	0.05	1.11	61.8	99.2	12	70
Precip	precip	-	0.00	29.67	340.6	100.0	0	366
SO4--	precip	0.25	0.05	2.52	83.5	99.9	9	75
SO4-- corr	precip	0.23	0.04	2.42	77.5	99.9	9	75
cond	precip	12.18	2.70	78.80	4149.7	100.0	0	76
pH	precip	6.05	5.61	7.48	306.3	100.0	0	76

ES0011R Barcarrota
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.52	0.14	2.37	199.0	100.0	0	46
Cl-	precip	0.95	0.15	5.23	361.3	100.0	2	46
K+	precip	0.36	0.03	2.80	137.7	100.0	2	46
Mg++	precip	0.13	0.04	0.80	51.2	100.0	0	46
NH4+	precip	0.29	0.02	3.87	109.6	100.0	3	46
NO3-	precip	0.14	0.04	0.77	54.8	100.0	5	46
Na+	precip	0.59	0.11	4.00	223.6	100.0	0	46
Precip	precip	-	0.00	46.51	380.3	100.0	0	366
SO4--	precip	0.23	0.05	0.80	88.3	100.0	1	46
SO4-- corr	precip	0.18	0.04	0.73	69.1	100.0	1	46
cond	precip	11.85	4.60	45.60	4505.0	100.0	0	46
pH	precip	5.72	5.28	7.00	731.8	100.0	0	46

ES0012R Zarra
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.68	0.23	19.50	580.7	98.7	0	51
Cl-	precip	0.72	0.15	4.21	247.6	99.7	7	60
K+	precip	0.08	0.03	0.64	27.6	98.7	14	51
Mg++	precip	0.12	0.03	1.20	42.4	98.7	0	51
NH4+	precip	0.40	0.09	2.45	136.9	99.7	0	59
NO3-	precip	0.34	0.04	2.34	117.6	99.7	2	60
Na+	precip	0.39	0.05	3.50	134.5	98.7	6	51
Precip	precip	-	0.00	26.81	344.7	100.0	0	366
SO4--	precip	0.47	0.05	6.32	162.3	99.7	4	60
SO4-- corr	precip	0.43	0.04	6.03	148.9	99.7	4	60
cond	precip	16.90	3.90	132.70	5825.4	100.0	0	64
pH	precip	6.04	5.13	7.51	312.2	100.0	0	64

ES0013R Penausende
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.72	0.15	3.80	252.5	99.4	0	65
Cl-	precip	0.55	0.15	6.09	194.3	99.9	10	69
K+	precip	0.17	0.03	2.70	61.6	99.4	7	65
Mg++	precip	0.10	0.03	0.80	35.2	99.4	0	65
NH4+	precip	0.62	0.02	3.12	218.0	99.7	2	67
NO3-	precip	0.25	0.04	1.38	88.0	99.9	9	69
Na+	precip	0.29	0.05	1.69	103.2	99.4	4	65
Precip	precip	-	0.00	30.70	352.2	100.0	0	366
SO4--	precip	0.30	0.05	1.73	104.8	99.9	6	69
SO4-- corr	precip	0.27	-0.01	1.66	95.1	99.9	6	69
cond	precip	13.35	3.30	49.50	4702.4	100.0	0	71
pH	precip	6.01	5.26	6.81	347.2	100.0	0	71

ES0014R Els Torns
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.22	0.37	12.80	568.0	100.0	0	35
Cl-	precip	0.76	0.15	2.75	194.4	100.0	5	35
K+	precip	0.41	0.03	7.00	106.0	100.0	2	35
Mg++	precip	0.18	0.04	1.20	47.3	100.0	0	35
NH4+	precip	0.72	0.17	5.96	184.6	100.0	0	35
NO3-	precip	0.41	0.04	2.51	104.1	100.0	1	35
Na+	precip	0.40	0.05	1.64	103.1	100.0	1	35
Precip	precip	-	0.00	44.19	256.1	100.0	0	366
SO4--	precip	0.52	0.15	1.79	132.7	100.0	0	35
SO4-- corr	precip	0.48	0.14	1.71	123.6	100.0	0	35
cond	precip	22.96	7.30	80.60	5880.6	100.0	0	35
pH	precip	6.29	6.06	7.30	130.3	100.0	0	35

ES0016R O Saviñao
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.35	0.05	8.90	444.9	98.9	3	97
Cl-	precip	1.43	0.15	9.80	1819.9	99.6	3	107
K+	precip	0.19	0.03	5.30	246.4	98.9	17	97
Mg++	precip	0.13	0.02	1.40	162.9	98.9	0	97
NH4+	precip	0.34	0.02	6.93	431.0	99.4	1	104
NO3-	precip	0.18	0.04	3.44	234.8	99.6	24	107
Na+	precip	0.84	0.05	6.90	1070.2	98.9	2	97
Precip	precip	-	0.00	112.80	1269.9	100.0	0	366
SO4--	precip	0.26	0.05	4.20	331.4	99.6	7	107
SO4-- corr	precip	0.19	0.00	3.77	246.4	99.6	7	107
cond	precip	12.83	3.80	164.20	16287.1	100.0	0	117
pH	precip	5.54	4.91	7.04	3681.0	100.0	0	117

ES0017R Doñana
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.51	0.05	22.40	174.5	97.6	1	35
Cl-	precip	2.72	0.15	8.87	941.1	98.9	1	40
K+	precip	0.09	0.03	0.51	30.0	97.6	9	35
Mg++	precip	0.23	0.05	0.90	78.8	97.6	0	35
NH4+	precip	0.12	0.02	0.86	39.9	98.6	9	38
NO3-	precip	0.13	0.04	0.92	44.5	98.9	10	40
Na+	precip	1.86	0.05	6.20	643.4	97.6	1	35
Precip	precip	-	0.00	29.00	345.4	100.0	0	366
SO4--	precip	0.36	0.11	2.43	123.5	98.9	0	40
SO4-- corr	precip	0.21	0.06	2.32	72.7	98.9	0	40
cond	precip	18.20	4.20	100.40	6286.6	100.0	0	49
pH	precip	5.39	4.75	7.85	1417.5	100.0	0	49

FI0004R Añtári
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.06	0.01	0.62	39.4	100.0	0	47
Cl-	precip	0.20	0.04	2.17	136.4	100.0	0	47
K+	precip	0.08	0.00	0.68	54.3	95.4	0	44
Mg++	precip	0.03	0.01	0.16	18.2	100.0	0	47
NH4+	precip	0.13	0.00	1.20	90.9	100.0	0	47
NO3-	precip	0.20	0.01	0.97	135.9	100.0	0	47
Na+	precip	0.12	0.03	1.51	83.9	100.0	0	47
Precip	precip	-	0.00	44.70	679.0	98.9	0	52
SO4--	precip	0.15	0.05	0.69	103.0	100.0	0	47
SO4-- corr	precip	0.14	0.04	0.68	95.9	100.0	0	47
cond	precip	8.57	3.84	35.20	5821.6	100.0	0	47
pH	precip	4.85	4.25	5.63	9645.7	95.4	0	44

FI0018R Virolahti III
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.04	1.42	104.9	99.9	0	45
Cl-	precip	0.57	0.06	5.02	296.7	99.9	0	45
K+	precip	0.10	0.02	0.51	52.7	96.0	0	43
Mg++	precip	0.07	0.01	0.42	35.8	99.9	0	45
NH4+	precip	0.36	0.02	3.93	186.5	99.9	0	45
NO3-	precip	0.38	0.08	3.40	200.2	99.9	0	45
Na+	precip	0.34	0.03	3.09	179.0	99.9	0	45
Precip	precip	-	0.00	36.30	524.2	97.8	0	51
SO4--	precip	0.39	0.10	4.47	206.6	99.9	0	45
SO4-- corr	precip	0.37	0.09	4.28	191.6	99.9	0	45
cond	precip	16.13	5.27	122.10	8454.1	99.9	0	45
pH	precip	4.70	3.83	5.96	10460.0	96.0	0	43

FI0036R Pallas (Matorova)
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.03	0.01	0.22	17.6	99.8	0	45
Cl-	precip	0.12	0.01	1.44	84.4	99.8	0	45
K+	precip	0.02	0.00	0.21	17.6	99.4	0	44
Mg++	precip	0.01	0.00	0.10	7.9	99.8	0	45
NH4+	precip	0.06	0.00	0.59	45.2	99.8	0	45
NO3-	precip	0.10	0.02	0.52	73.5	99.8	0	45
Na+	precip	0.07	0.01	1.02	52.0	99.8	0	45
Precip	precip	-	0.00	63.50	706.6	93.1	0	49
SO4--	precip	0.13	0.03	0.46	91.5	99.8	0	45
SO4-- corr	precip	0.12	0.02	0.45	87.3	99.8	0	45
cond	precip	6.91	2.74	18.90	4882.9	99.8	0	45
pH	precip	4.88	4.55	5.34	9353.1	99.4	0	44

FR0008R Donon
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	3.46	129.5	96.5	19	147
Cl-	precip	0.30	0.03	6.81	388.9	96.5	23	147
K+	precip	0.03	0.01	0.57	39.4	96.5	46	147
Mg++	precip	0.03	0.01	0.47	33.4	96.5	79	147
NH4+	precip	0.22	0.01	2.67	285.9	96.5	5	147
NO3-	precip	0.18	0.01	2.17	227.0	96.5	1	147
Na+	precip	0.18	0.01	4.04	236.0	96.5	15	147
Precip	precip	-	0.00	44.60	1293.6	100.0	14	366
SO4--	precip	0.14	0.01	1.24	177.0	96.5	4	147
SO4-- corr	precip	0.12	0.01	1.10	156.8	96.5	4	147
pH	precip	5.43	4.15	6.70	4764.3	96.6	0	152

FR0009R Revin
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.01	7.50	224.8	88.1	2	144
Cl-	precip	0.91	0.03	11.79	952.4	88.1	5	144
K+	precip	0.06	0.01	1.78	63.7	88.1	17	144
Mg++	precip	0.07	0.01	0.86	69.9	88.1	36	144
NH4+	precip	0.41	0.01	2.40	432.8	88.1	1	144
NO3-	precip	0.30	0.03	3.35	315.6	88.1	0	144
Na+	precip	0.56	0.01	7.99	580.9	88.1	4	144
Precip	precip	-	0.00	35.80	1045.5	100.0	6	366
SO4--	precip	0.23	0.03	2.06	245.6	88.1	0	144
SO4-- corr	precip	0.19	0.03	1.39	197.7	88.1	0	144
pH	precip	5.53	3.85	6.68	3089.3	88.4	0	148

FR0010R Morvan
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.14	0.01	5.45	119.5	84.8	4	126
Cl-	precip	0.71	0.03	7.86	590.6	84.8	5	126
K+	precip	0.15	0.01	2.37	125.3	84.8	10	126
Mg++	precip	0.06	0.01	0.59	47.0	84.8	31	126
NH4+	precip	0.47	0.01	11.41	391.9	84.8	2	126
NO3-	precip	0.18	0.01	3.29	147.8	84.8	1	126
Na+	precip	0.44	0.01	5.05	363.3	84.8	5	126
Precip	precip	-	0.00	41.20	828.6	100.0	10	366
SO4--	precip	0.16	0.01	2.12	136.2	84.8	1	126
SO4-- corr	precip	0.13	-0.32	2.09	105.7	84.8	1	126
pH	precip	5.51	4.35	7.43	2541.8	85.2	0	128

FR0013R Peyrusse Vieille
January 2015 - December 2015

Component	matrix	W.	Min	Max	Dep	%	Num	Num
		mean				anal		
Ca++	precip	0.37	0.01	3.70	212.5	87.1	2	115
Cl-	precip	1.39	0.07	17.98	809.0	87.1	0	115
K+	precip	0.15	0.01	1.70	86.6	87.1	9	115
Mg++	precip	0.11	0.01	1.17	64.9	87.1	13	115
NH4+	precip	0.32	0.01	13.25	183.2	87.1	6	115
NO3-	precip	0.25	0.01	11.62	146.0	87.1	2	115
Na+	precip	0.80	0.03	9.95	466.2	87.1	0	115
Precip	precip	-	0.00	38.20	581.4	100.0	45	366
SO4--	precip	0.27	0.03	6.47	158.0	87.1	0	115
SO4-- corr	precip	0.20	0.01	6.28	118.7	87.1	0	115
pH	precip	5.63	4.39	6.76	1355.8	87.5	0	122

FR0014R Montandon
January 2015 - December 2015

Component	matrix	W.	Min	Max	Dep	%	Num	Num
		mean				anal		
Ca++	precip	0.14	0.01	1.90	138.1	96.0	3	124
Cl-	precip	0.19	0.03	6.72	191.4	96.0	21	124
K+	precip	0.03	0.01	1.07	34.4	96.0	48	124
Mg++	precip	0.02	0.01	0.32	18.6	96.0	66	124
NH4+	precip	0.24	0.01	2.17	244.0	96.0	2	124
NO3-	precip	0.20	0.02	1.77	196.0	96.0	0	124
Na+	precip	0.11	0.01	3.51	112.4	96.0	14	124
Precip	precip	-	0.00	49.20	998.0	100.0	24	366
SO4--	precip	0.13	0.01	0.79	126.7	96.0	4	124
SO4-- corr	precip	0.12	0.01	0.77	118.3	96.0	4	124
pH	precip	5.54	4.12	6.55	2872.2	97.2	0	126

FR0015R La Tardière
January 2015 - December 2015

Component	matrix	W.	Min	Max	Dep	%	Num	Num
		mean				anal		
Ca++	precip	0.21	0.01	4.69	168.4	95.8	1	127
Cl-	precip	1.98	0.03	117.93	1556.8	95.8	2	127
K+	precip	0.08	0.01	2.63	65.9	95.8	9	127
Mg++	precip	0.14	0.01	8.02	113.3	95.8	13	127
NH4+	precip	0.34	0.01	2.41	264.8	95.8	3	127
NO3-	precip	0.19	0.01	3.01	149.1	95.8	2	127
Na+	precip	1.16	0.01	67.69	913.9	95.8	3	127
Precip	precip	-	0.00	48.80	786.0	100.0	33	366
SO4--	precip	0.28	0.04	5.55	219.0	95.8	0	127
SO4-- corr	precip	0.18	-0.12	1.39	142.2	95.8	0	127
pH	precip	5.68	4.29	7.00	1629.7	96.2	0	135

FR0016R Le Casset
January 2015 - December 2015

Component	matrix	W.	Min	Max	Dep	%	Num	Num
		mean				anal		
Ca++	precip	0.46	0.02	19.83	294.9	98.6	0	99
Cl-	precip	0.16	0.03	8.10	101.8	98.6	21	99
K+	precip	0.07	0.01	1.61	44.4	98.6	20	99
Mg++	precip	0.03	0.01	1.06	21.1	98.6	39	99
NH4+	precip	0.23	0.01	3.63	146.5	98.6	19	99
NO3-	precip	0.19	0.01	4.85	121.3	98.6	2	99
Na+	precip	0.09	0.01	3.62	59.1	98.6	20	99
Precip	precip	-	0.00	28.80	637.8	100.0	16	366
SO4--	precip	0.18	0.01	4.04	113.9	98.6	8	99
SO4-- corr	precip	0.17	0.01	3.74	109.3	98.6	8	99
pH	precip	5.66	5.01	6.83	1381.4	98.7	0	102

FR0017R Montfranc
January 2015 - December 2015

Component	matrix	W.	Min	Max	Dep	%	Num	Num
		mean				anal		
Ca++	precip	0.23	0.01	7.60	214.5	88.6	6	120
Cl-	precip	0.60	0.03	13.10	564.4	88.6	10	120
K+	precip	0.03	0.01	0.48	32.1	88.6	34	120
Mg++	precip	0.05	0.01	0.86	47.7	88.6	34	120
NH4+	precip	0.20	0.01	1.14	191.7	88.6	8	120
NO3-	precip	0.16	0.01	1.52	151.3	88.6	1	120
Na+	precip	0.36	0.01	7.47	340.3	88.6	6	120
Precip	precip	-	0.00	45.60	947.1	99.5	15	364
SO4--	precip	0.16	0.01	1.57	154.1	88.6	2	120
SO4-- corr	precip	0.13	0.01	1.41	126.0	88.6	2	120
pH	precip	5.60	4.58	6.75	2395.9	88.7	0	121

FR0018R La Coulonche
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.01	1.98	127.7	93.7	1	147
Cl-	precip	1.59	0.03	25.19	1398.3	93.7	4	147
K+	precip	0.05	0.01	0.60	45.7	93.7	25	147
Mg++	precip	0.12	0.01	1.61	101.8	93.7	18	147
NH4+	precip	0.37	0.06	2.43	323.5	93.7	0	147
NO3-	precip	0.17	0.03	3.38	149.8	93.7	0	147
Na+	precip	0.91	0.01	13.95	801.9	93.7	4	147
Precip	precip	-	0.00	24.00	876.7	100.0	10	366
SO4--	precip	0.22	0.02	1.95	192.7	93.7	0	147
SO4-- corr	precip	0.14	0.01	1.29	125.9	93.7	0	147
pH	precip	5.80	4.08	6.91	1382.4	94.1	0	153

GB0002R Eskdalemuir
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.03	1.59	182.6	100.0	0	21
Cl-	precip	4.19	0.69	29.00	6122.9	100.0	0	21
K+	precip	0.21	0.01	8.16	311.8	100.0	2	21
Mg++	precip	0.24	0.03	1.40	354.6	100.0	0	21
NH4+	precip	0.57	0.05	26.50	839.9	100.0	0	21
NO3-	precip	0.12	0.05	0.80	181.2	100.0	0	21
Na+	precip	2.40	0.40	17.20	3503.0	100.0	0	21
Precip	precip	-	2.25	183.00	1462.4	77.0	0	21
SO4--	precip	0.34	0.13	5.38	501.6	100.0	0	21
SO4-- corr	precip	0.14	0.02	4.84	209.2	100.0	0	21
cond	precip	22.62	6.88	281.00	33072.6	100.0	0	21
pH	precip	5.49	5.09	7.27	4783.5	100.0	0	21

GB0006R Lough Navar
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.03	1.14	457.6	100.0	0	25
Cl-	precip	7.81	0.69	43.70	13436.7	100.0	0	25
K+	precip	0.18	0.01	0.90	309.6	100.0	4	25
Mg++	precip	0.49	0.03	2.51	849.0	100.0	0	25
NH4+	precip	0.10	0.00	0.68	166.4	100.0	5	25
NO3-	precip	0.05	0.00	0.45	87.0	100.0	2	25
Na+	precip	4.43	0.38	24.00	7619.9	100.0	0	25
Precip	precip	-	8.64	163.00	1719.7	100.0	0	25
SO4--	precip	0.43	0.07	2.23	734.4	100.0	0	25
SO4-- corr	precip	0.06	-0.03	0.22	96.6	100.0	0	25
cond	precip	32.51	5.01	170.00	55899.9	100.0	0	25
pH	precip	5.57	4.99	6.31	4615.4	100.0	0	25

GB0013R Yarner Wood
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.07	3.14	154.7	100.0	0	23
Cl-	precip	3.92	0.18	14.10	3121.4	100.0	0	23
K+	precip	0.12	0.01	0.69	92.2	100.0	1	23
Mg++	precip	0.24	0.00	0.91	191.6	100.0	1	23
NH4+	precip	0.27	0.05	1.22	217.6	100.0	0	23
NO3-	precip	0.21	0.04	0.80	169.7	100.0	0	23
Na+	precip	2.27	0.10	8.10	1807.4	100.0	0	23
Precip	precip	-	0.00	183.00	796.3	96.2	0	26
SO4--	precip	0.34	0.15	0.71	272.8	100.0	0	23
SO4-- corr	precip	0.15	0.03	0.40	121.5	100.0	0	23
cond	precip	20.33	5.92	59.90	16186.7	99.1	0	21
pH	precip	5.36	5.01	6.14	3476.0	100.0	0	23

GB0014R High Muffles
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.02	2.32	192.3	100.0	0	26
Cl-	precip	2.86	0.26	17.80	2163.1	100.0	0	26
K+	precip	0.10	0.01	1.30	79.2	100.0	2	26
Mg++	precip	0.17	0.01	0.90	131.3	100.0	0	26
NH4+	precip	0.51	0.11	2.88	389.4	100.0	0	26
NO3-	precip	0.32	0.09	1.49	238.7	100.0	0	26
Na+	precip	1.64	0.18	11.20	1238.6	100.0	0	26
Precip	precip	-	3.81	103.00	757.5	96.2	0	26
SO4--	precip	0.42	0.16	1.72	318.0	100.0	0	26
SO4-- corr	precip	0.28	0.08	1.35	214.6	100.0	0	26
cond	precip	18.57	6.10	99.10	14068.9	100.0	0	26
pH	precip	5.41	4.84	6.44	2932.0	100.0	0	26

GB0015R Strath Vaich Dam
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.24	0.03	0.85	329.6	100.0	1	25
Cl-	precip	10.19	0.37	43.10	13787.3	100.0	1	25
K+	precip	0.19	0.01	0.76	262.5	100.0	2	25
Mg++	precip	0.60	0.02	2.36	812.4	100.0	1	25
NH4+	precip	0.06	0.00	0.36	83.7	100.0	4	25
NO3-	precip	0.05	0.00	0.54	63.8	100.0	3	25
Na+	precip	5.59	0.23	22.80	7562.7	100.0	1	25
Precip	precip	-	3.58	152.00	1353.6	100.0	1	25
SO4--	precip	0.51	0.06	1.97	692.8	100.0	1	25
SO4-- corr	precip	0.04	-0.04	0.19	60.5	100.0	1	25
cond	precip	39.72	3.23	153.00	53765.1	100.0	1	25
pH	precip	5.34	4.76	6.34	6162.9	100.0	0	25

GB0036R Harwell
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.01	4.12	77.2	100.0	3	145
Cl-	precip	2.02	0.06	33.20	849.8	100.0	0	145
K+	precip	0.08	0.01	1.78	31.8	100.0	13	145
Mg++	precip	0.12	0.00	2.37	48.4	100.0	4	145
NH4+	precip	0.37	0.00	4.11	154.3	100.0	1	145
NO3-	precip	0.23	0.02	3.30	95.0	100.0	0	145
Na+	precip	1.17	0.03	20.00	491.9	100.0	0	145
Precip	precip	-	0.00	14.90	420.2	100.0	0	365
SO4--	precip	0.26	0.03	2.12	108.5	100.0	0	145
SO4-- corr	precip	0.16	-0.02	1.83	67.8	100.0	0	145
cond	precip	12.76	2.82	143.00	5361.9	98.0	0	114
pH	precip	5.58	4.60	7.00	1106.2	100.0	0	145

GB0048R Auchencorth Moss
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.01	11.40	118.6	97.0	19	229
Cl-	precip	2.06	0.05	175.00	2081.5	97.0	3	229
K+	precip	0.06	0.01	3.48	57.2	97.0	62	229
Mg++	precip	0.12	0.00	6.24	119.6	97.0	19	229
NH4+	precip	0.21	0.02	31.80	214.2	97.0	3	229
NO3-	precip	0.10	0.00	5.44	98.4	97.0	6	229
Na+	precip	1.18	0.00	98.30	1185.3	97.0	4	229
Precip	precip	-	0.00	35.50	1008.4	100.0	0	365
SO4--	precip	0.19	0.00	14.90	187.1	97.0	4	229
SO4-- corr	precip	0.09	-0.61	6.67	87.9	97.0	4	229
cond	precip	11.22	1.99	140.00	11317.6	95.9	3	188
pH	precip	5.50	4.49	8.75	3160.9	97.0	0	229

HU0002R K-pusztá
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.64	0.14	11.45	236.6	99.6	0	84
Cl-	precip	1.01	0.51	6.60	374.6	99.8	0	92
K+	precip	0.17	0.03	3.59	63.7	99.6	0	84
Mg++	precip	0.12	0.04	1.74	43.7	99.6	0	84
NH4+	precip	0.57	0.00	3.97	210.9	99.0	1	79
NO3-	precip	0.43	0.11	4.69	160.9	99.8	0	92
Na+	precip	1.19	0.60	7.04	442.7	99.6	0	84
Precip	precip	-	0.00	20.80	371.7	99.9	0	365
Precip off	precip	-	0.00	29.90	513.9	99.9	0	365
SO4--	precip	0.73	0.19	9.72	271.5	99.8	0	92
SO4-- corr	precip	0.66	0.17	9.41	245.0	99.8	0	92
cond	precip	17.62	7.00	122.00	6550.5	98.9	0	76
pH	precip	5.99	5.47	7.29	381.7	98.9	0	76

IE0001R Valentia Observatory
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.03	5.05	661.0	99.5	19	230
Cl-	precip	13.21	0.15	161.96	30301.4	99.5	0	230
K+	precip	0.28	0.03	5.24	652.1	99.5	32	230
Mg++	precip	0.93	0.03	15.18	2140.9	99.5	9	230
NH4+	precip	0.05	0.02	2.31	107.3	99.5	130	230
NO3-	precip	0.29	0.03	5.05	661.0	99.5	19	230
Na+	precip	7.33	0.05	130.48	16828.3	99.5	0	230
Precip	precip	-	0.00	40.70	2294.6	99.6	0	364
Precip off	precip	-	0.00	39.80	1727.3	99.9	0	365
SO4--	precip	0.68	0.02	10.56	1571.2	99.5	0	230
SO4-- corr	precip	0.07	-0.36	1.29	161.1	99.5	0	230
cond	precip	54.52	3.30	853.00	125097.9	99.5	0	229
pH	precip	5.31	4.54	6.40	11147.7	99.5	0	229

IE0005R Oak Park
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.03	3.10	85.9	98.0	8	121
Cl-	precip	2.20	0.03	105.82	1253.3	98.0	1	121
K+	precip	0.07	0.03	2.46	39.4	98.0	58	121
Mg++	precip	0.16	0.03	7.34	90.8	98.0	24	121
NH4+	precip	0.22	0.02	7.06	124.1	98.0	13	121
NO3-	precip	0.09	0.01	1.13	48.5	98.0	2	121
Na+	precip	1.21	0.03	56.26	689.3	98.0	3	121
Precip	precip	-	0.00	22.10	570.1	86.3	0	315
Precip off	precip	-	0.00	35.20	928.9	100.0	0	365
SO4--	precip	0.17	0.01	6.20	99.5	98.0	2	121
SO4-- corr	precip	0.07	-0.04	1.49	42.1	98.0	2	121
cond	precip	12.68	2.20	399.00	7226.5	98.0	0	121
pH	precip	5.80	5.26	7.70	910.4	98.0	0	121

IE0006R Malin Head
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.68	0.03	9.78	814.3	98.9	6	215
Cl-	precip	26.36	0.59	413.93	31774.5	98.9	0	215
K+	precip	0.65	0.03	50.50	779.3	98.9	16	215
Mg++	precip	1.93	0.03	31.11	2330.9	98.9	1	215
NH4+	precip	0.11	0.02	4.40	131.6	98.9	104	215
NO3-	precip	0.07	0.01	1.28	86.1	98.9	44	215
Na+	precip	14.86	0.30	235.50	17912.9	98.9	0	215
Precip	precip	-	0.00	59.30	1205.6	98.5	0	360
Precip off	precip	-	0.00	63.20	1464.8	99.3	0	363
SO4--	precip	1.38	0.04	20.40	1667.3	98.9	0	215
SO4-- corr	precip	0.14	-0.14	2.42	166.4	98.9	0	215
cond	precip	107.86	5.50	1603.00	130027.6	98.9	0	215
pH	precip	5.37	4.53	6.75	5143.1	98.9	0	215

IE0009R Johnstown Castle
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.03	1.82	158.9	99.1	14	161
Cl-	precip	6.13	0.16	90.88	5703.8	99.1	0	161
K+	precip	0.13	0.03	2.11	121.7	99.1	41	161
Mg++	precip	0.41	0.03	5.68	379.2	99.1	6	161
NH4+	precip	0.16	0.02	2.89	149.5	98.8	24	159
NO3-	precip	0.11	0.01	2.73	102.6	99.1	11	161
Na+	precip	3.29	0.09	46.81	3059.3	99.1	0	161
Precip	precip	-	0.00	22.70	931.0	97.0	0	354
Precip off	precip	-	0.00	36.60	1063.3	100.0	0	365
SO4--	precip	0.39	0.03	4.40	359.8	99.1	0	161
SO4-- corr	precip	0.11	-0.01	1.29	103.1	99.1	0	161
cond	precip	27.81	3.10	327.00	25891.9	99.1	0	161
pH	precip	5.43	4.39	6.99	3422.0	99.1	0	161

IS0002R Irafoss
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.02	1.67	379.6	96.7	0	167
Cl-	precip	7.02	0.03	69.10	13263.5	96.7	9	167
K+	precip	0.28	0.01	3.69	519.9	96.7	6	167
Mg++	precip	0.46	0.01	3.83	864.1	96.7	0	167
NO3-	precip	0.03	0.00	1.27	51.1	96.7	4	167
Na+	precip	3.78	0.05	31.48	7141.5	96.7	0	167
Precip	precip	-	0.00	70.00	1889.9	99.9	0	365
SO4--	precip	0.34	0.00	3.26	644.6	96.7	14	167
SO4-- corr	precip	0.02	-0.32	0.69	42.8	96.7	14	167
cond	precip	27.65	1.80	179.30	52264.8	93.8	0	135
pH	precip	5.50	4.48	6.76	5954.2	95.3	0	148

IT0001R Montelibretti
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	4.11	1.77	21.25	2140.7	100.0	0	38
Cl-	precip	3.62	0.18	38.16	1885.2	100.0	0	38
K+	precip	0.25	0.07	2.48	128.4	100.0	0	38
Mg++	precip	0.51	0.12	2.54	263.7	100.0	0	38
NH4+	precip	0.25	0.01	5.01	129.2	100.0	0	38
NO3-	precip	0.73	0.15	11.74	380.6	100.0	0	38
Na+	precip	2.09	0.09	20.62	1090.7	100.0	0	38
Precip	precip	-	0.00	32.00	521.0	100.0	0	360
SO4--	precip	0.46	0.10	4.72	242.1	100.0	0	38
SO4-- corr	precip	0.29	-0.03	4.23	150.3	100.0	0	38
cond	precip	39.57	10.60	230.40	20614.7	100.0	0	38
pH	precip	5.80	4.40	7.30	817.0	100.0	0	38

IT0004R Ispra
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.52	0.06	5.42	616.9	99.8	0	84
Cl-	precip	0.30	0.04	15.13	351.9	99.8	0	84
K+	precip	0.07	0.01	0.82	83.4	99.8	7	84
Mg++	precip	0.06	0.01	1.19	71.6	99.8	0	84
NH4+	precip	0.82	0.00	7.63	973.5	99.8	1	84
NO3-	precip	0.54	0.00	7.52	646.4	99.8	2	84
Na+	precip	0.41	0.03	13.52	486.0	99.8	0	84
Precip	precip	-	0.00	102.48	1189.8	99.9	0	366
SO4--	precip	0.44	0.01	3.83	522.9	99.8	1	84
SO4-- corr	precip	0.42	-0.13	3.67	496.3	99.8	1	84
cond	precip	15.81	4.65	91.00	18814.4	99.0	0	70
pH	precip	5.08	3.94	7.18	9797.3	99.3	0	73

LT0015R Preila
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.36	0.06	2.33	161.6	98.5	0	97
Cl-	precip	3.10	0.14	39.20	1382.3	98.5	0	97
K+	precip	0.15	0.03	1.03	66.0	98.5	0	97
Mg++	precip	0.28	0.02	2.94	122.6	98.5	0	97
NH4+	precip	0.48	0.04	4.11	212.0	98.5	0	97
NO3-	precip	0.43	0.09	3.30	191.6	98.5	0	97
Na+	precip	1.83	0.08	22.00	814.7	98.5	0	97
Precip	precip	-	0.00	18.90	445.7	100.0	0	366
SO4--	precip	0.46	0.06	2.58	206.1	98.5	0	97
SO4-- corr	precip	0.31	-1.78	2.38	138.0	98.5	0	97
cond	precip	25.08	5.00	150.00	11177.8	98.5	0	97
pH	precip	4.87	3.95	6.58	5963.7	98.5	0	97

LV0010R Rucava
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.02	2.20	159.8	93.9	32	104
Cl-	precip	1.17	0.07	14.10	874.5	88.5	4	86
K+	precip	0.07	0.01	0.70	51.2	93.9	25	104
Mg++	precip	0.10	0.02	0.80	75.4	93.9	61	104
NH4+	precip	0.34	0.01	2.49	253.6	98.2	31	130
NO3-	precip	0.37	0.07	1.28	272.3	88.5	0	86
Na+	precip	0.54	0.04	6.00	404.9	94.7	49	105
Precip off	precip	-	0.00	27.30	744.4	99.9	0	365
SO4--	precip	0.32	0.04	1.46	238.5	88.5	0	86
SO4-- corr	precip	0.27	0.00	1.44	201.8	88.5	0	86
cond	precip	14.99	3.90	73.30	11162.2	97.0	0	132
pH	precip	5.05	3.80	6.99	6691.1	99.3	0	135

ME0008R Zabljak
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.49	0.54	7.60	1909.3	85.1	0	54
Cl-	precip	1.39	0.49	11.79	1780.0	98.2	0	100
K+	precip	0.56	0.06	15.32	717.1	99.0	0	110
Mg++	precip	0.26	0.01	1.48	333.3	79.3	0	49
NH4+	precip	0.92	0.00	4.90	1173.0	99.9	0	113
NO3-	precip	0.25	0.00	15.99	316.3	99.9	0	113
Na+	precip	0.86	0.21	11.89	1097.0	99.0	0	110
Precip	precip	-	0.00	126.20	1277.7	100.0	0	365
SO4--	precip	0.99	0.00	10.15	1259.1	99.9	0	113
SO4-- corr	precip	0.92	-0.06	9.71	1169.8	99.6	0	111
cond	precip	28.20	4.00	503.00	36033.2	99.9	0	113
pH	precip	6.26	5.45	8.15	700.6	99.9	0	113

NL0091R De Zilk
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.28	0.04	2.06	220.0	95.5	5	121
Cl-	precip	6.44	0.16	67.89	5107.2	98.9	3	153
K+	precip	0.17	0.02	3.57	136.2	95.5	14	121
Mg++	precip	0.44	0.01	4.54	347.6	95.5	3	121
NH4+	precip	0.42	0.04	8.31	329.1	98.0	1	141
NO3-	precip	0.29	0.06	4.57	231.7	98.9	0	153
Na+	precip	3.66	0.06	37.92	2899.1	95.5	0	121
Precip	precip	-	0.00	22.28	792.4	99.7	174	365
SO4--	precip	0.51	0.13	3.16	404.0	98.9	0	153
SO4-- corr	precip	0.20	-0.01	2.56	160.3	98.9	0	153
cond	precip	34.49	6.00	274.00	27331.3	92.8	0	107
pH	precip	5.21	4.37	6.56	4934.7	99.6	0	166

NO0001R Birkenes
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.03	1.34	334.0	99.6	0	186
Cl-	precip	2.27	0.01	59.95	4939.9	99.6	1	186
K+	precip	0.10	0.01	3.42	215.1	99.6	0	186
Mg++	precip	0.16	0.01	3.99	350.3	99.6	4	186
NH4+	precip	0.28	0.01	5.88	614.5	99.6	10	186
NO3-	precip	0.29	0.01	3.51	633.5	99.6	2	186
Na+	precip	1.29	0.02	33.38	2812.0	99.6	0	186
Precip	precip	-	0.00	95.50	2172.6	100.0	0	366
SO4--	precip	0.29	0.03	6.61	622.4	99.6	0	186
SO4-- corr	precip	0.18	-0.12	5.95	387.1	99.6	0	186
cond	precip	17.56	3.00	234.00	38157.4	99.1	0	166
pH	precip	4.91	3.76	6.01	26960.5	99.1	0	166

NO0015R Tustervatn
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.02	1.90	241.8	97.9	0	187
Cl-	precip	3.51	0.02	84.35	5069.5	98.0	0	188
K+	precip	0.15	0.02	1.83	215.2	97.4	0	186
Mg++	precip	0.24	0.01	5.73	351.5	97.9	5	187
NH4+	precip	0.09	0.01	2.42	134.3	97.4	14	186
NO3-	precip	0.07	0.01	2.05	105.8	98.0	3	188
Na+	precip	1.96	0.02	47.74	2831.5	98.0	0	188
Precip	precip	-	0.00	78.70	1443.7	96.7	0	354
SO4--	precip	0.20	0.01	3.85	289.2	97.5	0	187
SO4-- corr	precip	0.05	-0.15	2.13	65.4	98.0	0	188
cond	precip	17.46	2.00	325.00	25207.6	97.3	0	171
pH	precip	5.26	4.32	6.25	7859.0	96.7	0	168

NO0039R Kårvatn
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.02	1.63	198.9	99.6	0	174
Cl-	precip	2.57	0.05	28.79	3449.0	99.8	0	176
K+	precip	0.14	0.03	2.97	189.3	99.5	0	173
Mg++	precip	0.18	0.01	1.95	241.1	99.8	4	176
NH4+	precip	0.09	0.01	5.18	117.8	99.5	9	173
NO3-	precip	0.08	0.01	5.30	111.1	99.8	3	176
Na+	precip	1.49	0.04	16.43	1995.2	99.8	0	176
Precip	precip	-	0.00	54.40	1343.5	99.2	0	363
SO4--	precip	0.18	0.01	1.72	245.8	99.8	0	176
SO4-- corr	precip	0.06	-0.11	0.67	79.2	99.8	0	176
cond	precip	13.97	2.00	173.00	18773.8	99.0	0	156
pH	precip	5.20	4.22	6.36	8480.2	98.7	0	153

NO0056R Hurdal
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.02	0.94	107.6	99.9	0	140
Cl-	precip	0.58	0.01	4.73	615.7	99.9	2	140
K+	precip	0.13	0.01	1.18	138.5	99.8	0	139
Mg++	precip	0.05	0.01	0.33	54.3	99.9	13	140
NH4+	precip	0.24	0.01	4.09	255.4	99.8	12	139
NO3-	precip	0.25	0.01	3.03	267.5	99.9	1	140
Na+	precip	0.35	0.03	2.78	375.3	99.9	0	140
Precip	precip	-	0.00	38.70	1058.6	98.6	0	361
SO4--	precip	0.17	0.02	2.39	180.1	99.9	0	140
SO4-- corr	precip	0.14	0.00	2.33	148.5	99.9	0	140
cond	precip	10.21	3.00	84.00	10811.5	99.5	0	133
pH	precip	4.98	4.13	6.06	11064.7	99.3	0	131

PL0002R Jarczew
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.36	0.05	5.01	156.8	99.8	0	100
Cl-	precip	0.55	0.12	6.21	241.3	99.8	0	100
K+	precip	0.18	0.02	1.68	77.6	99.8	0	100
Mg++	precip	0.06	0.00	0.62	26.5	99.8	0	100
NH4+	precip	0.65	0.16	9.13	283.4	99.8	0	100
NO3-	precip	0.50	0.13	6.10	220.2	99.8	0	100
Na+	precip	0.25	0.04	3.81	110.7	99.8	0	100
Precip	precip	-	0.00	42.60	439.4	91.0	0	333
Precip off	precip	-	0.00	44.70	448.0	91.0	0	333
SO4--	precip	0.62	0.18	10.70	274.6	99.8	0	100
SO4-- corr	precip	0.60	0.16	10.38	264.4	99.8	0	100
cond	precip	17.65	6.00	165.00	7755.1	99.8	0	100
pH	precip	4.91	3.63	6.78	5449.0	99.8	0	100

PL0003R Sniezka
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.56	0.18	1.84	233.6	96.1	0	106
Cl-	precip	0.72	0.31	2.46	299.9	99.5	0	123
K+	precip	0.42	0.01	1.63	173.4	97.4	0	108
Mg++	precip	0.25	0.06	0.77	105.2	97.4	0	108
NH4+	precip	0.38	0.11	1.00	158.2	99.5	0	123
NO3-	precip	0.82	0.41	2.31	341.7	99.5	0	123
Na+	precip	0.79	0.02	2.32	326.4	96.1	0	106
Precip	precip	-	0.00	20.80	414.3	85.8	0	314
Precip off	precip	-	0.00	34.90	727.8	85.8	0	314
SO4--	precip	1.04	0.31	1.89	431.4	99.5	0	123
SO4-- corr	precip	0.98	0.30	1.78	404.2	99.5	0	123
cond	precip	29.61	13.00	58.00	12269.1	100.0	0	127
pH	precip	4.50	4.17	4.77	12977.1	100.0	0	127

PL0004R Leba
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.02	3.34	100.4	99.4	0	145
Cl-	precip	2.32	0.11	64.21	1255.9	99.4	0	145
K+	precip	0.13	0.02	2.33	72.4	99.4	0	145
Mg++	precip	0.16	0.01	4.28	86.9	99.4	0	145
NH4+	precip	0.39	0.04	3.03	212.2	99.4	0	145
NO3-	precip	0.41	0.08	3.64	221.2	99.4	0	145
Na+	precip	1.34	0.04	35.57	725.2	99.4	0	145
Precip	precip	-	0.00	25.30	540.5	97.0	0	355
Precip off	precip	-	0.00	24.60	477.6	97.0	0	355
SO4--	precip	0.35	0.06	3.26	187.6	99.4	0	145
SO4-- corr	precip	0.23	0.03	2.51	126.5	99.4	0	145
cond	precip	19.18	4.00	245.00	10367.5	99.4	0	145
pH	precip	4.97	4.07	7.37	5749.7	99.4	0	145

PL0005R Diabla Gora
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.01	1.45	85.1	94.0	0	99
Cl-	precip	0.57	0.02	7.71	321.6	99.4	0	131
K+	precip	0.07	0.00	0.87	37.6	93.8	0	98
Mg++	precip	0.05	0.01	0.75	29.8	94.0	0	99
NH4+	precip	0.52	0.03	3.04	294.0	98.3	3	126
NO3-	precip	0.37	0.02	2.83	210.2	99.7	0	132
Na+	precip	0.29	0.01	3.73	160.8	94.0	0	99
Precip	precip	-	0.00	26.80	561.1	99.9	0	365
Precip off	precip	-	0.00	28.10	637.6	99.9	0	365
SO4--	precip	0.34	0.04	2.61	192.8	99.7	0	132
SO4-- corr	precip	0.32	0.00	2.59	178.3	99.4	0	131
cond	precip	12.62	3.30	45.00	7081.6	93.9	0	98
pH	precip	5.04	3.83	6.82	5162.5	99.7	0	134

RS0005R Kamenicki vis
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.93	0.11	20.60	1353.3	100.0	0	83
Cl-	precip	0.51	0.04	6.21	356.2	100.0	0	83
K+	precip	1.49	0.00	22.99	1045.5	100.0	0	83
Mg++	precip	0.18	0.03	11.13	130.0	100.0	0	83
NH4+	precip	1.01	0.00	7.90	707.8	100.0	0	83
NO3-	precip	0.48	0.03	7.89	335.5	100.0	0	83
Na+	precip	0.30	0.01	4.27	208.9	100.0	0	83
Precip	precip	-	0.00	58.00	703.0	99.7	0	364
SO4--	precip	1.02	0.21	10.73	715.4	100.0	0	83
SO4-- corr	precip	0.99	0.21	10.71	693.5	100.0	0	83
cond	precip	30.45	12.00	134.30	21403.0	100.0	0	83
pH	precip	4.95	4.32	6.18	7942.2	100.0	0	83

RU0001R Janiskoski
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.40	0.07	3.26	196.6	100.0	0	141
Cl-	precip	2.78	0.09	55.11	1362.7	100.0	0	141
K+	precip	1.64	0.04	32.49	802.0	100.0	0	141
Mg++	precip	0.05	0.00	1.14	24.3	100.0	0	141
NH4+	precip	0.45	0.01	3.60	217.9	100.0	0	141
NO3-	precip	0.10	0.01	1.32	48.2	100.0	0	141
Na+	precip	1.04	0.05	9.71	511.1	100.0	0	141
Precip	precip	-	0.00	24.80	489.4	99.7	0	365
SO4--	precip	0.28	0.01	4.04	138.8	100.0	0	141
SO4-- corr	precip	0.20	-0.64	3.26	96.4	100.0	0	141
cond	precip	19.21	2.40	216.60	9403.1	97.8	0	118
pH	precip	5.51	4.37	7.39	1526.1	98.0	0	120

RU0013R Pinega
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.72	0.14	8.72	379.7	100.0	0	170
Cl-	precip	0.82	0.05	31.62	428.9	100.0	0	170
K+	precip	0.47	0.02	14.23	248.1	100.0	0	170
Mg++	precip	0.15	0.02	2.23	77.2	100.0	0	170
NH4+	precip	0.42	0.02	3.47	222.8	100.0	0	170
NO3-	precip	0.24	0.02	2.41	124.8	100.0	0	170
Na+	precip	0.51	0.03	16.46	269.2	100.0	0	170
Precip	precip	-	0.00	48.20	525.3	100.0	0	366
SO4--	precip	0.38	0.04	3.21	197.1	100.0	0	170
SO4-- corr	precip	0.33	0.02	2.94	175.3	100.0	0	170
cond	precip	11.55	3.50	115.90	6065.0	96.2	0	133
pH	precip	5.96	5.09	6.82	582.2	97.6	0	146

RU0018R Danki
Janu

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.68	0.17	6.25	341.1	100.0	0	128
Cl-	precip	0.30	0.04	4.99	149.9	100.0	0	128
K+	precip	0.21	0.03	4.26	107.2	100.0	0	128
Mg++	precip	0.07	0.02	0.53	34.9	100.0	0	128
NH4+	precip	0.45	0.01	5.03	222.6	100.0	0	128
NO3-	precip	0.31	0.08	2.71	155.0	100.0	0	128
Na+	precip	0.20	0.04	2.26	101.0	100.0	0	128
Precip	precip	-	0.00	33.60	500.2	100.0	0	366
SO4--	precip	0.41	0.06	4.00	203.9	100.0	0	128
SO4-- corr	precip	0.39	0.06	3.85	195.2	100.0	0	128
cond	precip	10.54	3.70	56.50	5274.1	98.1	0	111
pH	precip	5.65	4.64	7.12	1119.8	99.4	0	122

RU0020R Lesnoy
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.51	0.11	3.46	317.2	100.0	0	164
Cl-	precip	0.43	0.03	9.74	263.6	100.0	0	164
K+	precip	0.23	0.02	6.99	141.9	100.0	0	164
Mg++	precip	0.06	0.01	0.69	38.0	100.0	0	164
NH4+	precip	0.44	0.01	3.07	275.2	100.0	0	164
NO3-	precip	0.28	0.01	3.21	173.1	100.0	0	164
Na+	precip	0.34	0.02	5.65	212.8	100.0	0	164
Precip	precip	-	0.00	29.10	620.0	100.0	0	366
SO4--	precip	0.34	0.04	5.06	210.6	100.0	0	164
SO4-- corr	precip	0.32	0.03	5.00	198.1	100.0	0	164
cond	precip	10.15	2.00	67.60	6289.6	96.6	0	134
pH	precip	5.50	4.72	6.61	1963.4	98.7	0	150

SE0005R Bredkålen
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.04	0.01	0.99	27.5	97.8	53	152
Cl-	precip	0.17	0.01	9.19	112.8	98.8	13	153
K+	precip	0.04	0.03	0.67	24.0	95.0	116	150
Mg++	precip	0.02	0.01	0.54	12.2	84.4	101	143
NH4+	precip	0.12	0.01	5.47	82.5	98.6	15	149
NO3-	precip	0.10	0.00	4.00	65.3	98.8	8	152
Na+	precip	0.10	0.01	5.08	63.3	98.8	55	153
Precip	precip	-	0.00	21.00	664.8	99.9	0	366
SO4--	precip	0.08	0.01	1.50	53.8	98.8	12	153
SO4-- corr	precip	0.07	0.00	1.38	48.5	98.8	12	153
cond	precip	5.13	2.00	85.00	3408.8	99.2	0	165
pH	precip	5.22	4.38	6.85	4008.2	99.2	0	165

SE0011R Vavihill
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.43	0.08	3.11	242.5	82.0	0	11
Cl-	precip	1.74	0.51	3.09	973.7	82.0	0	11
K+	precip	0.12	0.03	0.23	69.0	82.0	3	11
Mg++	precip	0.13	0.04	0.24	74.4	82.0	0	11
NH4+	precip	0.60	0.09	1.20	334.1	82.0	0	11
NO3-	precip	0.56	0.32	2.98	314.0	82.0	0	11
Na+	precip	1.03	0.27	1.80	573.2	82.0	0	11
Precip	precip	-	7.00	110.00	558.0	97.5	0	12
SO4--	precip	0.33	0.24	0.43	182.4	82.0	0	11
SO4-- corr	precip	0.24	0.20	0.40	133.9	82.0	0	11
cond	precip	18.50	11.00	46.00	10323.3	82.0	0	11
pH	precip	5.30	4.52	6.53	2823.3	82.0	0	11

SE0012R Aspvreten
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	0.26	80.7	87.3	3	11
Cl-	precip	0.42	0.09	1.10	331.9	87.3	0	11
K+	precip	0.03	0.03	0.24	26.6	87.3	8	11
Mg++	precip	0.03	0.01	0.08	24.3	87.3	5	11
NH4+	precip	0.31	0.10	1.13	247.5	87.3	0	11
NO3-	precip	0.23	0.08	0.69	181.2	87.3	0	11
Na+	precip	0.24	0.01	0.61	189.9	87.3	1	11
Precip	precip	-	3.80	110.00	799.4	98.2	0	12
SO4--	precip	0.22	0.10	0.50	178.3	87.3	0	11
SO4-- corr	precip	0.20	0.08	0.47	160.5	87.3	0	11
cond	precip	8.87	4.00	21.00	7092.4	87.3	0	11
pH	precip	5.21	4.68	6.27	4937.7	87.3	0	11

SE0014R Råö
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.01	14.65	199.7	99.5	7	150
Cl-	precip	9.94	0.09	745.85	7356.7	99.5	0	151
K+	precip	0.22	0.03	14.77	162.2	99.5	45	150
Mg++	precip	0.66	0.01	45.23	485.4	99.5	3	150
NH4+	precip	0.44	0.01	5.64	326.1	99.4	1	148
NO3-	precip	0.36	0.03	4.55	264.4	99.5	0	151
Na+	precip	5.67	0.07	409.89	4196.9	99.5	0	150
Precip	precip	-	0.00	20.00	740.3	100.0	0	366
SO4--	precip	0.62	0.07	33.65	457.6	99.5	0	151
SO4-- corr	precip	0.14	-0.66	1.71	106.3	99.5	0	151
cond	precip	46.44	6.00	1929.00	34381.9	97.5	0	161
pH	precip	5.10	4.48	7.11	5936.9	97.5	0	161

SI0008R Iskrba
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.26	0.02	5.53	318.5	99.8	8	109
Cl-	precip	0.24	0.04	6.02	289.9	99.7	0	108
K+	precip	0.03	0.01	0.95	40.5	99.8	53	109
Mg++	precip	0.03	0.01	0.55	37.4	99.8	45	109
NH4+	precip	0.20	0.01	3.56	239.3	99.8	15	109
NO3-	precip	0.22	0.02	3.24	263.8	99.7	0	108
Na+	precip	0.11	0.01	3.49	137.3	99.8	42	109
Precip	precip	-	0.00	44.60	1212.2	100.0	0	366
Precip off	precip	-	0.00	85.30	1366.2	99.9	0	365
SO4--	precip	0.24	0.03	2.04	295.0	99.7	0	108
SO4-- corr	precip	0.23	0.03	1.75	283.8	99.7	0	108
cond	precip	7.87	2.00	50.00	9538.9	97.7	0	82
pH	precip	5.12	4.10	7.17	9095.7	97.7	0	82

SK0002R Chopok
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.01	1.94	244.4	90.7	0	116
Cl-	precip	0.19	0.03	1.15	191.4	90.2	0	116
K+	precip	0.06	0.01	1.03	57.3	90.8	0	117
Mg++	precip	0.04	0.00	0.45	39.7	90.7	0	116
NH4+	precip	0.38	0.01	2.42	379.9	90.3	0	116
NO3-	precip	0.27	0.05	2.26	272.7	90.8	0	117
Na+	precip	0.13	0.01	1.44	133.3	90.8	0	117
Precip	precip	-	0.00	57.40	992.3	48.6	0	178
SO4--	precip	0.43	0.06	4.52	428.5	90.8	0	117
SO4-- corr	precip	0.42	0.06	4.50	418.1	90.8	0	117
cond	precip	11.60	3.36	42.60	11511.2	77.7	0	76
pH	precip	5.07	4.35	6.14	8455.4	77.7	0	76

SK0004R Stará Lesná
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.32	0.03	1.45	205.7	94.9	0	33
Cl-	precip	0.15	0.02	1.37	96.5	94.9	0	33
K+	precip	0.15	0.00	0.96	93.4	94.9	0	33
Mg++	precip	0.05	0.01	0.16	30.5	94.9	0	33
NH4+	precip	0.52	0.01	1.17	335.6	87.3	0	29
NO3-	precip	0.32	0.06	1.44	205.0	94.9	0	33
Na+	precip	0.16	0.01	1.36	101.1	94.9	0	33
Precip	precip	-	0.00	59.00	640.9	77.3	0	40
SO4--	precip	0.43	0.05	1.03	275.0	94.9	0	33
SO4-- corr	precip	0.42	0.05	1.00	266.8	94.9	0	33
cond	precip	11.79	4.50	28.40	7558.2	88.4	0	26
pH	precip	5.55	4.68	6.32	1804.3	88.4	0	26

SK0006R Starina
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.04	1.61	132.5	78.0	0	42
Cl-	precip	0.22	0.06	0.84	100.8	77.1	0	41
K+	precip	0.17	0.00	0.78	78.6	81.2	0	43
Mg++	precip	0.05	0.01	0.22	23.3	81.2	0	43
NH4+	precip	0.45	0.04	1.54	201.3	73.7	0	40
NO3-	precip	0.43	0.13	1.44	194.2	76.2	0	42
Na+	precip	0.18	0.03	0.76	83.0	82.6	0	44
Precip	precip	-	0.10	43.30	449.5	25.5	0	93
SO4--	precip	0.62	0.16	2.34	280.7	82.6	0	44
SO4-- corr	precip	0.61	0.15	2.32	273.5	82.6	0	44
cond	precip	16.16	6.67	32.50	7262.1	77.0	0	30
pH	precip	4.94	4.29	5.84	5204.7	79.4	0	32

SK0007R Topolniki
January 2015 - December 2015

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.33	0.03	3.81	115.3	96.9	0	27
Cl-	precip	0.14	0.04	0.96	48.4	96.9	0	27
K+	precip	0.08	0.01	0.91	28.0	96.9	0	27
Mg++	precip	0.04	0.01	0.17	15.3	96.9	0	27
NH4+	precip	0.56	0.14	1.54	195.3	96.9	0	27
NO3-	precip	0.32	0.17	1.14	110.8	96.9	0	27
Na+	precip	0.08	0.01	0.59	28.8	96.9	0	27
Precip	precip	-	0.80	51.70	346.8	67.1	0	35
SO4--	precip	0.47	0.09	1.34	164.7	96.9	0	27
SO4-- corr	precip	0.47	0.08	1.29	162.6	96.9	0	27
cond	precip	12.74	7.86	31.80	4417.9	89.5	0	20
pH	precip	5.24	4.54	6.13	1978.8	89.5	0	20

Annex 3

Annual statistics on gases and aerosol data

AM0001R Amberd
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.44	0.49	0.19	5.10	0.00	0.01	0.26	1.49	2.48	75.3	0	275
Cl-	aerosol	0.06	0.07	0.03	3.41	0.00	0.00	0.03	0.21	0.55	66.8	0	244
HNO3	air	0.11	0.09	0.07	2.44	0.00	0.02	0.08	0.32	0.47	74.5	0	272
K+	aerosol	0.11	0.12	0.06	3.23	0.00	0.01	0.07	0.41	0.49	71.2	0	260
Mg++	aerosol	0.03	0.04	0.02	3.55	0.00	0.00	0.02	0.10	0.35	75.1	0	274
NH3	air	0.81	0.47	0.69	1.78	0.05	0.24	0.73	1.82	3.36	75.1	0	274
NH4+	aerosol	0.50	0.33	0.38	2.34	0.01	0.07	0.45	1.07	2.22	72.9	0	266
NO2	air	0.19	0.15	0.13	2.62	0.00	0.02	0.14	0.52	0.68	65.8	0	240
NO3-	aerosol	0.32	0.46	0.17	3.32	0.00	0.02	0.20	0.93	4.68	72.3	0	264
Na+	aerosol	0.07	0.09	0.03	3.68	0.00	0.00	0.04	0.32	0.49	71.8	0	262
SO2	air	0.21	0.19	0.13	2.96	0.00	0.02	0.16	0.60	1.17	73.7	0	269
SO4--	aerosol	0.45	0.54	0.30	2.66	0.01	0.05	0.35	1.10	5.67	74.2	0	271
SO4-- corr	aerosol	0.45	0.54	0.29	2.77	-0.30	0.05	0.35	1.10	5.67	74.2	0	271

AT0002R Illmitz
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM1 mass	pm1	10.22	6.53	8.40	1.91	1.00	3.08	8.25	24.73	34.70	31.2	0	114
PM10 mass	pm10	19.63	12.11	16.51	1.82	2.80	5.70	16.95	44.15	92.40	98.1	0	358
PM25 mass	pm25	14.70	10.17	11.91	1.94	1.80	4.00	12.10	35.10	81.20	98.4	0	359
SO2	air	0.65	0.82	0.43	2.32	0.02	0.14	0.38	2.12	10.48	94.0	0	8233

AT0005R Vorhegg
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.83	0.41	0.76	1.50	0.30	0.45	0.70	1.71	3.25	95.9	0	350
PM10 mass	pm10	6.60	5.06	5.09	2.06	1.20	1.60	4.95	16.79	28.20	31.8	0	116
SO2	air	0.16	0.17	0.11	2.29	0.00	0.03	0.12	0.42	2.10	93.2	0	8168

AT0048R Zoebelboden
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	7.71	5.49	5.85	2.21	0.80	1.30	6.20	18.20	31.50	32.6	0	119
SO2	air	0.18	0.21	0.13	2.10	0.01	0.05	0.12	0.55	4.01	95.0	0	8318

CH0001G Jungfrauoch
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	110.53	19.39	109.02	1.18	62.97	84.54	108.46	140.36	234.81	89.7	0	7860
NO	air	0.01	0.04	0.01	3.88	-0.00	-0.00	0.00	0.05	0.85	74.2	0	6504
NO2	air	0.08	0.20	0.04	2.80	0.00	0.01	0.04	0.24	4.48	72.8	0	6380
PM10 mass	pm10	2.33	3.64	1.29	3.07	-1.30	0.10	1.20	9.15	29.00	98.9	0	361
SO2	air	0.03	0.12	0.02	2.22	-0.04	-0.01	0.02	0.07	3.26	97.4	0	8529
SO4--	aerosol	0.09	0.12	0.05	2.77	0.00	0.01	0.05	0.32	0.84	98.9	0	361

CH0002R Payerne
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.39	0.39	0.24	2.79	0.01	0.04	0.26	1.27	2.84	100.0	0	365
EC	pm25	0.42	0.23	0.37	1.68	0.15	0.16	0.41	1.02	1.03	8.5	0	31
HNO3	air	0.24	0.09	0.22	1.44	0.12	0.12	0.21	0.45	0.49	100.0	0	27
HNO3+NO3-	air+aerosol	0.91	0.87	0.64	2.34	0.06	0.15	0.61	2.60	4.99	99.7	0	364
K+	aerosol	0.19	0.15	0.15	2.08	0.01	0.05	0.14	0.47	1.24	100.0	0	365
Mg++	aerosol	0.04	0.03	0.03	2.34	0.00	0.01	0.03	0.09	0.28	100.0	0	365
NH3	air	2.24	1.03	1.95	1.73	0.45	0.57	2.05	4.43	4.84	100.0	0	27
NH3+NH4+	air+aerosol	3.49	1.91	3.00	1.80	0.33	0.98	3.37	6.38	12.98	100.0	0	365
NH4+	aerosol	1.00	0.70	0.84	1.77	0.40	0.40	0.79	2.97	3.33	100.0	0	27
NO2	air	3.38	2.79	2.37	2.45	0.12	0.46	2.55	9.34	17.68	96.5	0	8452
NO3-	aerosol	0.72	0.55	0.58	1.86	0.27	0.27	0.53	2.24	2.50	100.0	0	27
Na+	aerosol	0.17	0.21	0.10	2.86	-0.03	0.02	0.10	0.56	1.92	100.0	0	365
OC	pm25	2.08	1.54	1.41	2.99	0.03	0.16	1.64	5.35	5.81	8.5	0	31
PM10 mass	pm10	13.25	8.14	11.16	1.82	0.90	4.00	11.10	30.22	47.00	100.0	0	365
PM25 mass	pm25	9.75	7.91	7.44	2.09	1.70	1.96	7.10	28.68	40.60	24.7	0	90
SO2	air	0.18	0.22	0.12	2.77	-0.11	-0.01	0.12	0.55	6.18	95.3	0	8350
SO4--	aerosol	0.41	0.27	0.34	1.89	0.04	0.10	0.36	0.92	1.98	99.7	0	364
SO4-- corr	aerosol	0.39	0.27	0.31	2.01	0.03	0.08	0.34	0.86	1.97	99.7	0	364

CH0003R Tänikon
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	3.93	3.10	3.02	2.07	0.18	0.94	2.92	10.08	21.08	95.3	0	8351
PM10 mass	pm10	13.19	8.04	11.08	1.84	1.50	3.63	11.00	30.04	42.90	100.0	0	365

CH0004R Chaumont
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.69	1.26	1.36	1.90	0.19	0.53	1.29	4.41	11.93	95.4	0	8361
PM10 mass	pm10	7.71	5.94	5.92	2.16	0.20	1.50	6.30	18.81	42.40	100.0	0	365

CH0005R Rigi
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.26	0.30	0.15	3.31	-0.03	0.01	0.15	0.95	1.69	95.9	0	350
EC	pm25	0.29	0.16	0.25	1.69	0.06	0.08	0.27	0.69	0.87	8.2	0	30
HNO3	air	0.18	0.08	0.16	1.52	0.08	0.08	0.15	0.40	0.42	100.0	0	27
HNO3+NO3-	air+aerosol	0.64	0.64	0.44	2.44	0.04	0.09	0.48	1.74	4.26	95.9	0	350
K+	aerosol	0.07	0.06	0.06	1.90	-0.01	0.02	0.06	0.16	0.69	95.9	0	350
Mg++	aerosol	0.03	0.02	0.02	2.09	0.00	0.00	0.02	0.08	0.13	95.9	0	350
NH3	air	1.22	0.85	0.80	2.96	0.07	0.07	1.17	2.65	2.72	95.9	0	26
NH3+NH4+	air+aerosol	1.87	1.51	1.36	2.36	0.09	0.28	1.72	4.04	11.35	95.9	0	350
NH4+	aerosol	0.79	0.54	0.65	1.86	0.25	0.25	0.63	2.24	2.36	100.0	0	27
NO2	air	1.06	1.44	0.62	2.74	0.01	0.13	0.58	3.58	18.60	97.8	0	8563
NO3-	aerosol	0.49	0.35	0.39	1.89	0.13	0.13	0.39	1.48	1.56	100.0	0	27
Na+	aerosol	0.12	0.15	0.07	3.04	-0.01	0.01	0.07	0.39	1.03	95.9	0	350
OC	pm25	1.19	1.11	0.69	3.47	0.02	0.04	0.89	4.07	4.29	8.2	0	30
PM10 mass	pm10	7.59	6.06	5.69	2.27	-0.80	1.40	6.40	19.71	37.70	100.0	0	365
PM25 mass	pm25	5.77	5.28	4.28	2.18	0.50	1.20	4.70	14.24	32.20	22.7	0	83
SO2	air	0.18	0.12	0.15	1.79	0.00	0.06	0.14	0.40	1.97	94.7	0	8297
SO4--	aerosol	0.30	0.23	0.23	2.22	0.01	0.05	0.25	0.77	1.72	97.3	0	355
SO4-- corr	aerosol	0.28	0.23	0.21	2.24	0.00	0.05	0.23	0.71	1.71	97.3	0	355

CY0002R Ayia Marina
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.18	0.48	0.08	2.95	0.02	0.02	0.08	0.65	5.96	81.9	0	299
Cl-	pm10	0.04	0.06	0.03	1.75	0.02	0.02	0.02	0.14	0.57	81.9	0	299
EC	pm10	0.17	0.13	0.14	1.80	0.02	0.06	0.14	0.43	0.98	81.9	0	299
K+	pm10	0.09	0.06	0.07	2.19	0.01	0.01	0.07	0.20	0.34	81.9	0	299
Mg++	pm10	0.03	0.02	0.02	2.02	0.00	0.01	0.03	0.06	0.15	81.9	0	299
NH4+	pm10	0.86	0.53	0.65	2.49	0.03	0.09	0.83	1.83	2.53	81.9	0	299
NO2	air	0.42	0.42	0.28	2.80	0.00	0.03	0.31	1.22	8.91	95.5	0	8369
NO3-	pm10	0.04	0.04	0.02	2.43	0.01	0.01	0.02	0.12	0.19	81.9	0	299
Na+	pm10	0.15	0.10	0.11	2.15	0.01	0.03	0.12	0.33	0.52	81.9	0	299
OC	pm10	1.48	0.79	1.29	1.73	0.33	0.40	1.40	2.68	5.78	81.9	0	299
PM10 mass	pm10	22.51	30.00	17.92	1.80	2.60	7.26	17.30	49.34	478.00	97.3	0	355
PM25 mass	pm25	9.88	6.52	8.42	1.83	0.20	3.40	8.90	18.19	84.70	95.9	0	350
SO2	air	0.49	0.60	0.32	2.45	0.00	0.07	0.32	1.41	8.77	96.0	0	8407
SO4--	pm10	1.16	0.67	0.95	1.97	0.14	0.25	1.07	2.40	3.18	81.9	0	299
SO4-- corr	pm10	1.15	0.67	0.94	1.99	0.13	0.24	1.06	2.39	3.17	81.9	0	299

CZ0001R Svratouch
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	17.32	9.20	14.91	1.83	1.00	5.35	15.80	33.89	67.10	48.3	2	177

CZ0003R Kosetice (NOAK)
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	94.16	28.24	89.19	1.43	22.10	50.68	93.56	140.71	245.68	93.7	220	8205
Ca++	pm10	0.13	0.15	0.08	2.62	0.01	0.02	0.09	0.49	0.81	71.0	1	37
EC	pm25	0.44	0.28	0.34	2.22	0.10	0.10	0.54	0.96	0.96	4.1	0	15
HNO3+NO3-	air+aerosol	0.80	0.55	0.65	1.94	0.07	0.22	0.63	1.85	3.86	100.0	0	366
K+	pm10	0.08	0.05	0.06	1.76	0.03	0.03	0.06	0.20	0.22	71.0	0	37
Mg++	pm10	0.04	0.04	0.03	2.76	0.01	0.01	0.03	0.17	0.19	71.0	9	37
NH3+NH4+	air+aerosol	3.04	1.84	2.62	1.73	0.12	1.04	2.79	5.56	15.28	100.0	0	366
Na+	pm10	0.09	0.10	0.06	2.59	0.03	0.03	0.35	0.40	71.0	21	37	
OC	pm25	2.36	1.61	1.89	2.02	0.58	0.58	2.43	6.42	6.42	4.1	0	15
PM10 mass	pm10	16.26	9.24	13.51	1.97	1.00	4.29	14.60	33.12	58.00	48.6	3	178
PM10 mass	pm10	17.43	11.42	13.81	2.10	1.00	4.00	15.00	40.00	90.00	93.3	133	8172
PM25 mass	pm25	11.62	8.52	8.58	2.36	1.00	1.00	9.00	28.00	77.00	96.4	548	8444
PM25 mass	pm25	14.52	7.14	12.83	1.68	2.00	4.92	13.25	26.75	50.00	49.9	0	182
SO2	air	0.64	0.73	0.39	2.65	0.12	0.12	0.40	1.85	11.06	95.2	2703	8340
SO2	air	0.79	0.62	0.64	1.91	0.08	0.25	0.59	1.85	4.53	100.0	0	366
SO4--	aerosol	0.60	0.55	0.37	3.02	0.02	0.02	0.41	1.66	3.67	100.0	0	366
TC	pm25	2.79	1.88	2.24	2.04	0.68	0.68	2.99	7.38	7.38	4.1	0	15

CZ0005R Churanov
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.44	0.36	0.35	1.93	0.07	0.12	0.33	1.12	2.24	16.7	0	61
NH3+NH4+	air+aerosol	1.24	0.59	1.10	1.67	0.23	0.47	1.15	2.22	2.96	16.7	0	61
PM10 mass	pm10	9.02	6.29	6.82	2.26	1.00	1.00	8.00	22.60	33.00	95.0	20	347
SO2	air	0.58	0.57	0.42	2.13	0.08	0.15	0.38	1.81	3.68	16.7	0	61
SO4--	aerosol	0.27	0.20	0.20	2.21	0.04	0.05	0.21	0.78	0.81	16.7	0	61

DE0001R Westerland
January 2015 - December 2015

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	0.03	1.96	0.00	0.01	0.03	0.07	0.10	16.7	1	61
Cl-	pm25	0.51	0.64	0.25	3.73	0.01	0.01	0.25	2.09	3.09	16.7	4	61
K+	pm25	0.06	0.07	0.03	2.54	0.01	0.01	0.03	0.16	0.50	16.7	13	61
Mg++	pm25	0.04	0.05	0.02	4.60	0.00	0.00	0.02	0.14	0.24	16.7	7	61
NH3	air	1.93	1.52	1.49	2.02	0.39	0.55	1.44	5.94	6.56	99.3	0	52
NH4+	pm25	0.75	1.16	0.32	3.70	0.04	0.04	0.27	3.67	6.18	16.7	0	61
NO	air	0.29	0.94	0.09	3.35	0.01	0.03	0.06	1.15	17.40	94.8	5150	8304
NO2	air	1.65	2.18	0.67	4.48	-0.09	0.06	0.79	6.52	17.81	94.8	1174	8301
NO2	air	2.07	1.75	1.57	2.07	0.46	0.55	1.60	5.89	12.41	96.2	0	351
NO3-	pm25	0.46	0.80	0.19	3.59	0.03	0.03	0.15	2.74	4.21	16.7	0	61
Na+	pm25	0.35	0.39	0.19	3.36	0.01	0.01	0.26	1.26	2.05	16.7	4	61
PM10 mass	pm10	19.34	10.80	16.92	1.67	4.12	7.68	17.19	44.39	65.26	96.4	0	352
SO4--	pm25	0.42	0.42	0.30	2.23	0.05	0.09	0.26	1.44	2.27	16.7	0	61
SO4-- corr	pm25	0.39	0.43	0.25	2.51	0.04	0.05	0.22	1.43	2.27	16.7	0	61

DE0002R Waldhof
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.05	0.02	3.74	0.00	0.00	0.02	0.06	0.40	16.7	6	61
Cl-	aerosol	0.47	0.72	0.19	3.99	0.00	0.02	0.16	1.98	5.32	99.7	91	364
Cl-	pm25	0.11	0.14	0.05	3.53	0.01	0.01	0.05	0.41	0.74	16.7	28	61
EC	pm25	0.30	0.20	0.26	1.77	0.10	0.11	0.25	0.77	0.96	17.0	0	62
HNO3	air	0.21	0.19	0.15	2.42	0.00	0.04	0.16	0.56	1.73	99.4	3	363
HNO3+NO3-	air+aerosol	0.85	0.72	0.65	2.05	0.11	0.21	0.61	2.53	4.91	99.7	0	364
K+	pm25	0.06	0.05	0.04	2.48	0.01	0.01	0.03	0.18	0.25	16.7	11	61
Mg++	pm25	0.01	0.01	0.01	3.77	0.00	0.00	0.01	0.04	0.07	16.7	15	61
NH3	air	1.24	0.91	0.89	2.19	0.17	0.21	0.87	3.52	4.00	97.3	0	50
NH3	air	1.54	0.98	1.23	2.07	-0.03	0.35	1.33	3.39	5.71	98.6	1	360
NH4+	pm25	1.03	1.08	0.66	2.57	0.12	0.17	0.69	3.74	4.81	16.7	0	61
NO2	air	2.66	1.44	2.36	1.62	0.78	1.18	2.25	5.67	9.00	98.4	0	359
NO3-	aerosol	0.64	0.70	0.40	2.63	0.03	0.09	0.39	2.33	4.83	99.7	0	364
NO3-	pm25	0.59	0.81	0.24	4.16	0.02	0.03	0.24	2.34	4.00	16.7	0	61
Na+	pm25	0.12	0.11	0.08	2.69	0.01	0.01	0.08	0.38	0.52	16.7	7	61
OC	pm25	2.87	1.86	2.41	1.80	0.74	0.82	2.09	7.56	8.49	17.0	0	62
PM1 mass	pm1	7.29	5.20	5.79	2.02	0.38	1.78	5.78	17.76	31.59	100.0	0	365
PM10 mass	pm10	16.35	10.81	13.86	1.75	2.27	6.05	13.27	37.88	76.40	98.3	0	359
PM25 mass	pm25	12.05	9.93	9.38	1.99	1.79	3.48	9.02	31.66	76.40	100.0	0	365
SO2	air	0.26	0.29	0.17	2.73	-0.02	0.02	0.18	0.76	3.33	98.9	13	361
SO2	air	0.33	0.30	0.26	1.99	0.05	0.10	0.25	0.89	2.60	99.5	0	364
SO4--	aerosol	0.58	0.42	0.48	1.82	0.08	0.18	0.49	1.31	3.35	99.7	0	364
SO4--	pm25	0.57	0.42	0.46	1.94	0.09	0.14	0.47	1.74	1.94	16.7	0	61
SO4-- corr	aerosol	0.57	0.42	0.47	1.84	0.08	0.16	0.49	1.29	3.35	99.7	0	364
SO4-- corr	pm25	0.56	0.42	0.45	1.96	0.09	0.14	0.45	1.74	1.94	16.7	0	61
TC	pm25	3.17	2.01	2.69	1.77	0.86	0.93	2.35	8.40	9.45	17.0	0	62

DE0003R Schauinsland
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.02	0.03	0.01	5.73	0.00	0.00	0.01	0.09	0.14	16.4	18	60
Cl-	aerosol	0.10	0.24	0.09	3.17	-0.00	0.00	0.03	0.48	2.13	95.6	192	349
Cl-	pm25	0.03	0.03	0.02	1.89	0.01	0.01	0.01	0.12	0.16	16.4	48	60
EC	pm25	0.11	0.07	0.09	2.04	0.01	0.02	0.11	0.23	0.39	16.7	0	61
HNO3	air	0.27	0.28	0.19	2.36	-0.00	0.04	0.18	0.73	2.18	94.8	7	346
HNO3+NO3-	air+aerosol	0.57	0.52	0.42	2.25	-0.00	0.09	0.43	1.49	3.46	95.3	3	348
K+	pm25	0.04	0.03	0.03	2.32	0.01	0.01	0.02	0.13	0.15	16.4	21	60
Mg++	pm25	0.00	0.01	0.00	3.09	0.00	0.00	0.00	0.02	0.03	16.4	37	60
NH3	air	0.61	0.38	0.50	1.99	0.12	0.17	0.57	1.39	1.61	97.8	0	50
NH3	air	0.90	0.76	0.65	2.36	0.06	0.16	0.69	2.30	5.44	94.2	0	344
NH4+	pm25	0.52	0.80	0.29	2.82	0.04	0.05	0.28	1.36	4.59	16.4	0	60
NO3-	aerosol	0.31	0.44	0.17	3.12	0.00	0.02	0.17	1.01	3.33	95.6	10	349
NO3-	pm25	0.23	0.60	0.07	3.64	0.01	0.02	0.06	0.85	3.40	16.4	0	60
Na+	pm25	0.03	0.05	0.02	2.23	0.01	0.01	0.01	0.13	0.27	16.4	40	60
OC	pm25	1.57	1.09	1.25	2.00	0.26	0.39	1.30	4.19	5.11	16.7	0	61
PM10 mass	pm10	10.14	7.78	7.59	2.25	0.47	1.85	8.64	24.63	53.35	97.5	0	356
PM25 mass	pm25	7.98	6.34	6.02	2.19	0.64	1.44	6.38	20.75	42.85	92.0	0	336
SO2	air	0.20	0.23	0.13	2.77	-0.01	0.01	0.13	0.54	2.12	94.8	20	346
SO2	air	0.23	0.16	0.19	1.68	0.10	0.10	0.20	0.45	1.45	99.5	0	364
SO4--	aerosol	0.38	0.29	0.29	2.29	0.00	0.05	0.32	0.91	1.76	95.6	7	349
SO4--	pm25	0.30	0.29	0.20	2.53	0.03	0.05	0.19	1.00	1.33	16.4	0	60
SO4-- corr	aerosol	0.37	0.30	0.30	2.22	-0.41	0.03	0.32	0.91	1.76	95.6	7	349
SO4-- corr	pm25	0.30	0.29	0.20	2.55	0.02	0.04	0.19	1.00	1.33	16.4	0	60
TC	pm25	1.68	1.14	1.35	1.99	0.28	0.40	1.39	4.38	5.30	16.7	0	61

DE0007R Neuglobsow
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.02	0.01	0.02	2.86	0.00	0.00	0.02	0.05	0.07	16.7	4	61
Cl-	aerosol	0.44	0.70	0.21	3.58	0.00	0.00	0.17	1.96	5.30	97.5	71	356
Cl-	pm25	0.08	0.11	0.04	3.03	0.01	0.01	0.03	0.25	0.65	16.7	30	61
EC	pm25	0.33	0.24	0.27	1.83	0.09	0.10	0.25	0.93	1.35	17.0	0	62
HNO3	air	0.17	0.15	0.12	2.68	-0.01	0.02	0.12	0.45	1.14	97.2	12	355
HNO3+NO3-	air+aerosol	0.69	0.60	0.52	2.11	0.06	0.16	0.49	1.86	4.32	97.2	0	355
K+	pm25	0.06	0.05	0.04	2.32	0.01	0.01	0.04	0.16	0.21	16.7	8	61
Mg++	pm25	0.01	0.01	0.00	4.19	0.00	0.00	0.01	0.03	0.07	16.7	21	61
NH3	air	0.70	0.58	0.48	2.46	0.05	0.13	0.49	2.02	2.19	99.3	1	52
NH3	air	0.83	0.70	0.60	2.30	0.04	0.14	0.61	2.35	3.66	97.2	0	355
NH4+	pm25	0.87	0.88	0.57	2.54	0.12	0.12	0.57	3.28	3.98	16.7	0	61
NO2	air	1.88	0.99	1.67	1.59	0.65	0.84	1.58	4.05	5.79	97.8	0	357
NO3-	aerosol	0.53	0.59	0.33	2.67	0.01	0.08	0.30	1.67	4.17	97.5	1	356
NO3-	pm25	0.45	0.66	0.17	4.28	0.01	0.02	0.12	2.02	3.47	16.7	0	61
Na+	pm25	0.11	0.10	0.07	2.52	0.01	0.02	0.07	0.31	0.53	16.7	2	61
OC	pm25	2.81	2.10	2.29	1.87	0.60	0.72	2.01	8.42	10.75	17.0	0	62
PM10 mass	pm10	14.79	9.24	12.68	1.71	3.90	5.59	11.89	33.35	66.08	100.0	0	365
PM25 mass	pm25	10.27	8.48	7.98	1.98	2.22	3.05	7.37	27.75	60.44	100.0	0	365
SO2	air	0.25	0.34	0.15	2.75	-0.01	0.03	0.14	0.88	4.05	96.4	10	352
SO2	air	0.40	0.36	0.33	1.81	0.10	0.15	0.30	1.00	4.05	94.2	0	345
SO4--	aerosol	0.54	0.46	0.41	2.19	0.00	0.11	0.42	1.40	3.18	97.5	1	356
SO4--	pm25	0.57	0.41	0.46	1.92	0.11	0.13	0.46	1.58	2.12	16.7	0	61
SO4-- corr	aerosol	0.53	0.46	0.40	2.21	0.00	0.10	0.40	1.40	3.18	97.5	1	356
SO4-- corr	pm25	0.56	0.41	0.45	1.96	0.10	0.12	0.46	1.58	2.11	16.7	0	61
TC	pm25	3.14	2.31	2.58	1.84	0.74	0.82	2.22	9.33	12.10	17.0	0	62

DE0008R Schmücke
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.02	0.03	0.01	6.31	0.00	0.00	0.01	0.08	0.12	16.7	22	61
Cl-	pm25	0.02	0.02	0.02	1.75	0.01	0.01	0.01	0.09	0.09	16.7	50	61
EC	pm25	0.21	0.15	0.16	2.09	0.01	0.03	0.16	0.61	0.85	16.7	0	61
K+	pm25	0.03	0.03	0.02	2.28	0.01	0.01	0.03	0.09	0.17	16.7	24	61
Mg++	pm25	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.01	0.02	16.7	35	61
NH3	air	0.70	0.52	0.50	2.44	0.04	0.11	0.59	1.76	2.20	99.3	2	52
NH4+	pm25	0.62	0.67	0.33	3.75	0.01	0.02	0.40	2.01	3.73	16.7	0	61
NO2	air	1.83	1.08	1.61	1.61	0.47	0.87	1.45	4.07	7.30	98.3	0	359
NO3-	pm25	0.31	0.52	0.11	4.64	0.01	0.01	0.10	1.68	2.90	16.7	0	61
Na+	pm25	0.04	0.04	0.03	2.28	0.01	0.01	0.01	0.12	0.18	16.7	35	61
OC	pm25	1.84	1.35	1.44	2.06	0.17	0.33	1.37	5.01	6.20	16.7	0	61
PM10 mass	pm10	11.29	7.97	8.76	2.12	0.82	2.16	9.43	26.99	51.28	100.0	0	365
PM25 mass	pm25	8.11	6.18	6.15	2.17	0.42	1.60	6.73	19.97	38.85	99.4	0	363
SO2	air	0.39	0.30	0.32	1.89	0.05	0.15	0.30	1.05	2.65	98.9	0	362
SO4--	pm25	0.35	0.33	0.16	5.18	0.00	0.00	0.24	1.02	1.48	16.7	3	61
SO4-- corr	pm25	0.34	0.33	0.17	5.22	-0.00	0.00	0.24	1.02	1.48	16.7	3	61
TC	pm25	2.04	1.46	1.63	2.02	0.18	0.36	1.55	5.76	6.82	16.7	0	61

DE0009R Zingst
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.04	0.02	2.69	0.00	0.00	0.03	0.05	0.33	16.7	2	61
Cl-	pm25	0.17	0.21	0.08	3.78	0.01	0.01	0.10	0.68	1.05	16.7	18	61
K+	pm25	0.06	0.06	0.05	2.10	0.01	0.01	0.05	0.20	0.31	16.7	5	61
Mg++	pm25	0.01	0.01	0.01	4.56	0.00	0.00	0.01	0.04	0.05	16.7	16	61
NH3	air	0.95	0.69	0.76	1.96	0.20	0.25	0.73	2.57	3.55	99.3	0	49
NH4+	pm25	0.85	0.91	0.51	2.84	0.05	0.08	0.50	3.10	4.23	16.7	0	61
NO	air	0.20	0.54	0.08	3.27	0.00	0.01	0.06	0.68	11.26	93.8	4860	8216
NO2	air	1.53	1.27	1.14	2.19	0.06	0.30	1.16	4.02	10.63	93.8	12	8214
NO2	air	1.97	0.98	1.77	1.57	0.47	0.89	1.71	4.12	5.98	98.1	0	358
NO3-	pm25	0.49	0.68	0.21	3.92	0.02	0.02	0.19	2.30	3.41	16.7	0	61
Na+	pm25	0.15	0.12	0.10	2.60	0.01	0.01	0.12	0.40	0.58	16.7	6	61
PM10 mass	pm10	14.90	9.61	12.71	1.73	2.11	5.36	11.96	36.88	75.86	97.5	0	356
SO2	air	0.30	0.31	0.23	2.17	-0.05	0.00	0.20	0.95	2.05	97.0	20	355
SO4--	pm25	0.46	0.33	0.37	2.04	0.05	0.08	0.37	1.11	1.68	16.7	0	61
SO4-- corr	pm25	0.45	0.33	0.35	2.10	0.05	0.07	0.37	1.10	1.67	16.7	0	61

DE0043G Hohenpeissenberg
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	10.15	6.53	8.25	1.99	1.09	2.18	8.78	23.00	64.33	97.0	0	8501

DE0044R Melpitz
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.15	0.13	0.12	1.95	0.01	0.04	0.12	0.35	1.80	98.9	0	362
Ca++	pm25	0.08	0.09	0.06	2.21	0.00	0.02	0.06	0.16	1.22	97.5	0	357
Cl-	pm10	0.28	0.48	0.12	3.99	0.00	0.01	0.12	1.18	4.84	98.9	0	362
Cl-	pm25	0.11	0.24	0.05	3.67	0.00	0.00	0.04	0.34	2.42	98.1	0	359
EC	pm25	0.36	0.27	0.29	1.95	0.05	0.10	0.27	0.89	1.63	98.1	0	358
K+	pm10	0.13	0.16	0.10	1.98	-0.00	0.03	0.09	0.30	2.58	98.9	0	362
K+	pm25	0.10	0.16	0.06	2.45	0.00	0.02	0.06	0.28	2.41	98.1	0	359
Mg++	pm10	0.04	0.04	0.03	1.99	0.00	0.01	0.03	0.10	0.42	98.9	0	362
Mg++	pm25	0.01	0.02	0.01	2.12	0.00	0.00	0.01	0.03	0.37	96.7	0	354
NH4+	pm10	1.14	1.10	0.79	2.37	0.07	0.20	0.77	3.53	6.56	98.9	0	362
NH4+	pm25	1.01	0.99	0.70	2.41	0.04	0.17	0.66	3.17	6.24	97.8	0	358
NO	air	0.59	1.40	0.30	3.48	-0.91	-0.07	0.26	2.31	25.20	99.8	0	8743
NO2	air	3.00	1.86	2.48	1.89	0.25	0.80	2.62	6.63	12.41	99.8	0	8743
NO3-	pm10	0.74	0.78	0.45	2.79	0.00	0.10	0.41	2.29	4.79	98.9	0	362
NO3-	pm25	0.57	0.72	0.27	3.56	0.02	0.04	0.26	1.85	4.13	97.5	0	357
Na+	pm10	0.28	0.32	0.16	3.18	0.00	0.02	0.16	0.90	2.56	98.9	0	362
Na+	pm25	0.09	0.16	0.05	2.79	-0.00	0.01	0.05	0.26	2.08	98.1	0	359
OC	pm25	2.77	2.00	2.21	1.98	0.35	0.68	2.27	6.07	18.38	98.1	0	358
PM10 mass	pm10	19.36	9.60	17.33	1.60	4.86	7.61	17.15	37.11	71.64	95.3	0	349
PM25 mass	pm25	14.73	8.34	12.81	1.70	1.59	5.42	12.79	30.46	62.33	96.2	0	352
SO4--	pm10	0.75	0.53	0.62	1.83	0.14	0.22	0.61	1.94	4.14	98.9	0	362
SO4--	pm25	0.67	0.49	0.55	1.88	0.13	0.18	0.54	1.67	4.37	97.8	0	358
SO4-- corr	pm10	0.72	0.53	0.59	1.90	0.13	0.20	0.57	1.92	4.12	98.9	0	362
SO4-- corr	pm25	0.66	0.49	0.54	1.90	0.13	0.18	0.53	1.66	4.35	97.8	0	358
TC	pm25	3.13	2.19	2.54	1.93	0.44	0.80	2.62	6.81	20.02	98.1	0	358

DK0003R Tange
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.14	0.13	0.11	2.09	0.00	0.04	0.11	0.35	1.20	96.4	83	353
Cl-	aerosol	2.07	1.98	1.29	2.85	0.10	0.21	1.45	5.67	16.64	97.8	14	358
HNO3+NO3-	air+aerosol	0.62	0.59	0.43	2.35	0.03	0.11	0.42	2.02	3.75	97.5	13	357
K+	aerosol	0.12	0.06	0.10	1.72	0.02	0.04	0.10	0.23	0.40	97.1	18	355
NH3	air	0.83	0.75	0.59	2.55	-0.01	0.13	0.64	2.26	6.67	97.0	14	355
NH4+	aerosol	0.77	0.83	0.51	2.47	0.02	0.13	0.49	2.45	6.48	97.0	11	355
Na+	aerosol	1.29	1.10	0.85	2.86	0.00	0.12	1.00	3.37	7.67	94.8	3	347
SO2	air	0.09	0.13	0.05	2.80	0.00	0.01	0.05	0.33	0.89	97.3	350	356
SO4--	aerosol	0.62	0.50	0.52	1.80	0.11	0.09	0.50	1.39	5.13	97.3	0	356
SO4-- corr	aerosol	0.52	0.52	0.38	2.16	0.05	0.11	0.39	1.38	5.10	97.3	0	356

DK0005R Keldsnor
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.75	1.57	0.40	2.74	-0.31	0.10	0.33	2.63	57.44	82.5	3419	7227
NO2	air	7.43	6.93	4.79	2.74	-0.60	0.85	5.25	21.81	57.81	82.5	2309	7227

DK0008R Anholt
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.17	0.13	0.14	1.99	-0.01	0.04	0.13	0.43	0.93	97.3	51	356
Cl-	aerosol	2.15	2.15	1.18	3.57	0.00	0.13	1.31	6.56	12.05	91.0	34	333
HNO3+NO3-	air+aerosol	0.60	0.55	0.43	2.31	0.03	0.10	0.42	1.89	3.17	98.1	14	359
K+	aerosol	0.12	0.07	0.10	1.72	0.03	0.04	0.10	0.24	0.48	97.1	17	355
NH3	air	0.18	0.20	0.10	3.74	-0.01	0.00	0.13	0.58	1.26	97.0	150	355
NH4+	aerosol	0.64	0.69	0.41	2.56	0.02	0.10	0.41	2.21	3.84	97.3	23	356
NO	air	0.33	0.79	0.17	2.77	-0.03	0.04	0.15	1.17	15.88	75.3	5051	6598
NO2	air	4.40	4.65	2.94	2.42	0.29	0.77	2.78	13.13	42.21	75.3	3414	6598
Na+	aerosol	2.11	1.56	1.55	2.42	0.01	0.32	1.81	5.12	8.69	96.4	1	353
SO2	air	0.12	0.15	0.07	2.51	0.00	0.02	0.08	0.36	1.61	97.0	346	355
SO4--	aerosol	0.69	0.43	0.60	1.68	0.07	0.27	0.59	1.50	3.43	98.1	1	359
SO4-- corr	aerosol	0.61	0.43	0.50	1.93	0.05	0.14	0.53	1.39	3.35	98.1	1	359

DK0012R Risoe
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.17	0.18	0.12	2.26	0.01	0.03	0.12	0.49	1.52	99.2	69	363
Cl-	aerosol	1.57	1.58	0.98	2.79	0.03	0.20	1.01	4.89	9.99	99.2	19	363
HNO3+NO3-	air+aerosol	0.84	0.71	0.61	2.23	0.06	0.16	0.60	2.36	4.22	98.9	6	362
K+	aerosol	0.12	0.09	0.10	1.78	0.01	0.05	0.10	0.27	0.83	97.9	10	358
NH3	air	0.71	0.76	0.43	3.35	-0.00	0.04	0.51	2.27	5.25	99.5	33	364
NH4+	aerosol	0.94	0.88	0.65	2.36	0.05	0.16	0.63	2.75	6.10	99.2	5	363
NO	air	0.82	2.27	0.39	2.83	-0.20	0.07	0.34	2.39	62.82	92.2	3518	8075
NO2	air	7.60	7.91	4.93	2.59	0.07	1.04	5.04	23.14	72.43	92.2	2394	8075
Na+	aerosol	1.08	0.97	0.74	2.61	0.01	0.14	0.77	3.12	5.51	98.4	2	360
SO2	air	0.16	0.20	0.10	2.52	0.00	0.03	0.09	0.55	1.63	98.6	347	361
SO4--	aerosol	0.72	0.56	0.59	1.83	0.08	0.26	0.54	1.80	4.03	98.6	2	361
SO4-- corr	aerosol	0.64	0.58	0.48	2.14	0.03	0.15	0.48	1.79	4.01	98.6	2	361

EE0009R Lahemaa
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	161.67	44.92	156.39	1.28	90.00	120.00	150.00	250.00	580.00	99.9	0	8749
Ca++	aerosol	0.59	0.53	0.42	2.29	0.08	0.13	0.33	1.64	3.51	98.9	0	362
Cl-	aerosol	0.31	0.24	0.24	1.91	0.10	0.10	0.25	0.73	2.25	98.9	2	362
K+	aerosol	0.13	0.17	0.08	2.38	0.02	0.02	0.08	0.40	1.55	99.7	2	365
Mg++	aerosol	0.08	0.11	0.05	2.50	0.02	0.02	0.05	0.25	0.78	98.9	25	362
NH4+	aerosol	1.12	0.46	1.04	1.47	0.16	0.57	1.03	2.02	3.68	98.9	0	362
NO2	air	2.27	1.74	1.87	1.83	0.30	0.72	1.88	5.16	19.25	98.9	1	361
NO3-	aerosol	0.04	0.05	0.03	2.04	0.02	0.02	0.02	0.15	0.32	98.9	36	362
Na+	aerosol	0.46	0.32	0.40	1.64	0.08	0.18	0.40	0.93	4.46	98.9	0	362
PM10 mass	pm10	6.54	3.37	5.78	1.65	1.65	2.21	5.64	13.30	19.19	100.0	0	53
PM25 mass	pm25	5.21	4.32	4.03	2.04	1.00	1.06	4.00	14.57	35.38	98.9	16	361
SO2	air	0.75	0.69	0.59	1.87	0.30	0.30	0.53	1.93	5.95	100.0	75	365
SO4--	aerosol	0.03	0.01	0.03	1.20	0.03	0.03	0.03	0.03	0.14	98.9	2	362
SO4-- corr	aerosol	0.01	0.02	0.02	1.57	-0.10	-0.03	0.01	0.02	0.12	98.8	1	361

EE0011R Vilsandi
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.14	1.79	1.62	2.10	0.30	0.51	1.58	5.78	11.73	95.3	4	348
PM25 mass	pm25	4.20	4.73	2.70	2.46	1.00	1.00	2.40	12.79	33.45	93.4	82	341
SO2	air	0.41	0.29	0.37	1.49	0.30	0.30	0.30	0.92	3.71	96.7	231	353

ES0001R San Pablo de los Montes
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.26	0.29	0.15	3.15	0.02	0.02	0.15	0.98	1.68	99.6	46	364
Ca++	pm25	0.07	0.06	0.05	2.28	0.01	0.01	0.06	0.19	0.31	16.4	1	60
Cl-	pm25	0.08	0.05	0.07	1.61	0.04	0.05	0.05	0.21	0.24	16.4	41	60
EC	pm25	0.14	0.09	0.11	2.27	0.01	0.02	0.12	0.30	0.47	14.2	0	52
HNO3+NO3-	air+aerosol	0.36	0.24	0.29	1.91	0.04	0.13	0.28	0.87	1.80	100.0	11	366
K+	pm10	0.11	0.08	0.08	1.95	0.01	0.03	0.08	0.27	0.55	99.6	1	364
K+	pm25	0.09	0.07	0.07	2.22	0.01	0.01	0.07	0.23	0.36	16.4	1	60
Mg++	pm10	0.04	0.04	0.03	2.33	0.01	0.01	0.03	0.12	0.25	99.6	13	364
Mg++	pm25	0.01	0.01	0.01	1.47	0.01	0.01	0.01	0.03	0.03	16.4	12	60
NH3	air	1.36	0.53	1.25	1.53	0.41	0.53	1.31	2.43	2.80	85.8	0	53
NH3+NH4+	air+aerosol	2.14	0.75	1.99	1.47	0.47	0.98	2.09	3.46	4.34	99.7	0	365
NH4+	pm10	0.40	0.25	0.33	1.86	0.10	0.12	0.34	0.90	1.17	16.4	0	60
NH4+	pm25	0.24	0.17	0.19	1.97	0.05	0.07	0.20	0.54	0.87	16.4	0	60
NO	air	0.05	0.09	0.03	2.49	0.00	0.01	0.02	0.17	2.30	98.9	0	8662
NO2	air	0.86	0.70	0.68	2.04	0.00	0.21	0.69	1.98	11.67	98.9	0	8662
NO3-	pm10	0.19	0.15	0.15	1.98	0.01	0.06	0.15	0.46	1.32	99.6	2	364
NO3-	pm25	0.07	0.08	0.04	2.56	0.01	0.01	0.04	0.25	0.40	16.4	7	60
Na+	pm10	0.21	0.23	0.13	2.62	0.05	0.05	0.12	0.70	1.27	99.6	146	364
Na+	pm25	0.08	0.05	0.07	1.98	0.02	0.02	0.08	0.21	0.26	16.4	10	60
OC	pm25	1.99	0.84	1.81	1.56	0.67	0.77	1.93	3.68	4.07	14.2	0	52
PM10 mass	pm10	13.51	9.73	11.04	1.89	1.00	4.00	12.00	33.00	88.00	99.4	0	363
PM25 mass	pm25	6.62	3.47	5.79	1.69	2.00	2.00	6.00	13.00	27.00	97.5	0	356
SO2	air	0.23	0.23	0.18	1.90	0.02	0.06	0.19	0.50	5.90	98.8	0	8658
SO4--	pm10	0.36	0.21	0.30	1.83	0.07	0.11	0.31	0.74	1.39	99.6	0	364
SO4--	pm25	0.33	0.19	0.28	1.85	0.06	0.10	0.30	0.64	1.05	16.4	0	60
SO4-- corr	pm10	0.33	0.20	0.28	1.88	0.03	0.09	0.29	0.73	1.32	99.6	0	364
SO4-- corr	pm25	0.32	0.19	0.27	1.87	0.06	0.09	0.29	0.63	1.04	16.4	0	60

ES0005R Noya
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.22	0.16	0.18	1.98	0.04	0.04	0.18	0.48	1.31	96.1	42	351
NH3+NH4+	air+aerosol	1.16	0.53	1.06	1.54	0.31	0.55	1.02	2.19	3.67	98.4	0	360
NO	air	0.07	0.15	0.04	2.25	0.00	0.02	0.04	0.19	6.08	90.0	0	7882
NO2	air	0.73	0.57	0.58	1.95	0.01	0.19	0.59	1.67	9.60	90.0	0	7882
NO3-	pm10	0.15	0.15	0.09	3.24	0.01	0.01	0.11	0.42	1.06	83.6	44	305
PM10 mass	pm10	6.40	5.96	4.55	2.34	1.00	1.00	5.00	16.00	56.00	80.5	0	294
SO2	air	0.30	0.52	0.16	2.82	0.01	0.03	0.15	0.99	8.89	83.0	0	7272
SO4--	pm10	0.36	0.25	0.27	2.30	0.02	0.07	0.32	0.84	1.35	83.6	6	305

ES0006R Mahón
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.56	0.26	0.50	1.63	0.04	0.24	0.52	1.07	1.63	93.3	2	341
NH3+NH4+	air+aerosol	1.39	0.56	1.28	1.54	0.37	0.58	1.32	2.37	3.04	97.2	0	355
NO	air	0.11	0.58	0.03	2.89	0.00	0.01	0.02	0.26	18.41	93.2	0	8167
NO2	air	1.52	2.28	0.84	2.98	0.02	0.12	0.89	5.18	30.36	93.2	0	8167
NO3-	pm10	0.46	0.22	0.41	1.72	0.01	0.17	0.43	0.90	1.43	94.4	1	345
PM10 mass	pm10	17.99	7.72	16.57	1.50	6.00	9.00	16.00	33.00	49.00	92.2	0	337
PM25 mass	pm25	7.03	3.79	6.39	1.52	2.00	3.00	6.00	12.30	36.00	85.7	0	313
SO2	air	0.15	0.20	0.11	2.09	0.01	0.04	0.12	0.34	5.01	97.8	0	8566
SO4--	pm10	0.87	0.40	0.79	1.59	0.02	0.41	0.79	1.68	2.58	94.4	1	345

ES0007R Viznar
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.46	0.39	0.32	2.62	0.02	0.05	0.37	1.16	3.06	98.6	10	360
Ca++	pm25	0.19	0.16	0.14	2.37	0.02	0.03	0.14	0.54	0.60	16.4	0	60
Cl-	pm10	0.12	0.10	0.09	1.89	0.06	0.06	0.06	0.38	0.50	16.4	38	60
Cl-	pm25	0.06	0.04	0.05	1.59	0.04	0.04	0.04	0.12	0.22	16.4	40	60
HNO3+NO3-	air+aerosol	0.56	0.26	0.50	1.61	0.12	0.22	0.53	1.01	1.99	98.3	0	359
K+	pm10	0.20	0.16	0.16	2.02	0.01	0.05	0.16	0.57	0.97	98.6	0	360
K+	pm25	0.16	0.11	0.13	1.95	0.01	0.05	0.12	0.38	0.59	16.4	0	60
Mg++	pm10	0.06	0.04	0.04	2.08	0.01	0.01	0.05	0.14	0.20	98.6	4	360
Mg++	pm25	0.03	0.02	0.02	1.91	0.01	0.01	0.02	0.07	0.08	16.4	1	60
NH3	air	1.20	0.55	1.07	1.65	0.26	0.34	1.20	2.55	2.72	87.7	0	25
NH3+NH4+	air+aerosol	1.68	0.69	1.52	1.60	0.30	0.59	1.67	2.88	4.52	98.6	0	360
NH4+	pm10	0.60	0.39	0.49	2.01	0.06	0.13	0.49	1.48	1.90	16.4	0	60
NH4+	pm25	0.25	0.16	0.21	1.84	0.04	0.06	0.18	0.56	0.95	16.4	0	60
NO	air	0.25	0.75	0.08	3.63	0.00	0.01	0.07	1.01	21.93	96.8	0	8478
NO2	air	1.75	1.89	1.15	2.62	0.01	0.24	1.19	5.19	28.16	96.8	0	8478
NO3-	pm10	0.26	0.17	0.22	1.92	0.01	0.07	0.23	0.56	1.44	98.6	1	360
NO3-	pm25	0.08	0.12	0.05	2.31	0.01	0.02	0.05	0.32	0.78	16.4	2	60
Na+	pm10	0.25	0.23	0.16	2.57	0.05	0.05	0.16	0.70	1.61	98.6	105	360
Na+	pm25	0.10	0.05	0.09	1.80	0.02	0.02	0.09	0.21	0.24	16.4	4	60
PM10 mass	pm10	17.70	14.91	14.25	1.91	2.00	5.00	14.00	42.05	200.00	98.0	0	358
PM25 mass	pm25	10.35	5.76	8.94	1.75	2.00	3.00	10.00	21.00	56.00	92.2	0	337
SO2	air	0.54	0.62	0.35	2.61	0.00	0.06	0.39	1.50	14.62	96.9	0	8490
SO4--	pm10	0.49	0.27	0.42	1.77	0.06	0.15	0.43	0.97	1.55	98.6	0	360
SO4--	pm25	0.41	0.25	0.35	1.90	0.05	0.10	0.36	0.83	1.57	16.4	0	60
SO4-- corr	pm10	0.45	0.25	0.38	1.80	0.06	0.13	0.39	0.91	1.47	98.6	0	360
SO4-- corr	pm25	0.40	0.25	0.34	1.92	0.04	0.10	0.35	0.82	1.56	16.4	0	60

ES0008R Niembro
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.25	0.25	0.18	2.18	0.02	0.04	0.19	0.58	2.67	99.5	7	364
Ca++	pm25	0.09	0.09	0.06	2.14	0.02	0.02	0.06	0.36	0.45	16.4	0	60
Cl-	pm10	1.79	2.16	0.87	3.83	0.06	0.06	1.09	6.87	10.77	16.4	5	60
Cl-	pm25	0.20	0.26	0.12	2.47	0.05	0.05	0.12	0.73	1.65	16.4	24	60
HNO3+NO3-	air+aerosol	0.53	0.39	0.42	1.99	0.04	0.16	0.44	1.11	3.25	99.5	8	364
K+	pm10	0.16	0.11	0.13	1.78	0.02	0.05	0.13	0.35	1.22	99.5	0	364
K+	pm25	0.08	0.07	0.06	2.34	0.01	0.01	0.07	0.23	0.40	16.4	0	60
Mg++	pm10	0.22	0.16	0.18	2.02	0.01	0.05	0.17	0.55	1.34	99.5	0	364
Mg++	pm25	0.04	0.03	0.03	2.03	0.01	0.01	0.03	0.14	0.16	16.4	1	60
NH3	air	0.56	0.27	0.48	1.93	0.02	0.18	0.54	1.11	1.32	85.8	0	53
NH3+NH4+	air+aerosol	1.40	0.59	1.28	1.54	0.39	0.58	1.31	2.48	3.77	95.1	0	348
NH4+	pm10	0.44	0.49	0.29	2.39	0.04	0.08	0.29	1.86	2.43	16.4	0	60
NH4+	pm25	0.17	0.19	0.12	2.20	0.03	0.03	0.10	0.54	1.08	16.4	0	60
NO	air	0.23	0.30	0.15	2.34	0.00	0.05	0.13	0.73	5.46	96.6	0	8466
NO2	air	1.53	1.44	1.11	2.21	0.02	0.30	1.12	4.13	18.40	96.6	0	8466
NO3-	pm10	0.29	0.22	0.21	2.39	0.01	0.04	0.23	0.70	1.22	99.5	8	364
NO3-	pm25	0.02	0.03	0.01	2.95	0.00	0.00	0.01	0.05	0.26	16.4	13	60
Na+	pm10	1.68	1.14	1.32	2.12	0.05	0.33	1.34	3.74	7.33	99.5	3	364
Na+	pm25	0.34	0.25	0.28	1.87	0.05	0.11	0.26	0.90	1.40	16.4	0	60
PM10 mass	pm10	16.34	7.58	14.82	1.56	3.00	7.00	15.00	29.00	66.00	99.5	0	364
PM25 mass	pm25	7.05	4.17	6.08	1.73	1.00	3.00	6.00	14.45	34.00	95.8	0	350
SO2	air	0.51	0.65	0.35	2.16	0.01	0.16	0.28	1.62	9.34	97.6	0	8551
SO4--	pm10	0.71	0.48	0.59	1.82	0.04	0.24	0.56	1.64	4.00	99.5	0	364
SO4--	pm25	0.51	0.45	0.38	2.17	0.02	0.12	0.40	1.75	2.65	16.4	1	60
SO4-- corr	pm10	0.56	0.49	0.41	2.30	-0.06	0.10	0.41	1.50	3.92	99.5	0	364
SO4-- corr	pm25	0.48	0.46	0.38	2.08	0.00	0.06	0.36	1.74	2.64	16.4	1	60

ES0009R Campisabalos
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.27	0.37	0.13	3.40	0.02	0.02	0.14	1.10	2.15	98.9	54	362
Ca++	pm25	0.11	0.10	0.08	2.33	0.01	0.02	0.08	0.33	0.53	16.4	0	60
Cl-	pm10	0.15	0.13	0.11	2.06	0.06	0.06	0.06	0.38	0.76	16.4	32	60
Cl-	pm25	0.13	0.16	0.09	2.09	0.04	0.04	0.10	0.27	1.21	16.4	27	60
EC	pm25	0.13	0.08	0.11	1.90	0.00	0.02	0.12	0.30	0.41	13.7	0	50
HNO3+NO3-	air+aerosol	0.13	0.11	0.10	2.03	0.03	0.03	0.10	0.34	0.69	90.7	55	332
K+	pm10	0.04	0.04	0.03	2.15	0.01	0.01	0.04	0.12	0.30	98.9	4	362
K+	pm25	0.04	0.03	0.03	2.04	0.01	0.01	0.03	0.09	0.20	16.4	1	60
Mg++	pm10	0.03	0.02	0.02	2.00	0.00	0.01	0.02	0.07	0.19	98.9	63	362
Mg++	pm25	0.01	0.01	0.01	1.50	0.01	0.01	0.01	0.04	0.04	16.4	16	60
NH3	air	0.75	0.41	0.65	1.75	0.13	0.21	0.67	1.60	2.46	84.1	0	52
NH3+NH4+	air+aerosol	1.01	0.39	0.93	1.50	0.24	0.45	0.98	1.73	2.33	96.7	0	354
NH4+	pm10	0.28	0.17	0.23	1.87	0.04	0.10	0.24	0.66	0.73	16.4	0	60
NH4+	pm25	0.17	0.11	0.14	1.90	0.03	0.03	0.13	0.40	0.51	16.4	0	60
NO	air	0.06	0.06	0.05	1.72	0.00	0.03	0.05	0.15	1.30	96.3	0	8440
NO2	air	0.75	0.43	0.66	1.69	0.04	0.29	0.66	1.46	7.33	96.3	0	8440
NO3-	pm10	0.12	0.08	0.09	2.29	0.01	0.01	0.10	0.28	0.51	98.9	26	362
NO3-	pm25	0.04	0.02	0.03	1.88	0.01	0.01	0.03	0.07	0.14	16.4	8	60
Na+	pm10	0.15	0.16	0.10	2.33	0.05	0.05	0.05	0.46	1.19	98.9	196	362
Na+	pm25	0.06	0.05	0.05	2.03	0.02	0.02	0.06	0.19	0.29	16.4	18	60
OC	pm25	1.82	0.93	1.63	1.58	0.78	0.80	1.53	3.63	5.21	13.7	0	50
PM10 mass	pm10	9.10	7.64	6.86	2.13	1.00	2.00	7.00	26.00	60.00	98.6	0	361
PM10 mass	pm10	11.77	10.58	8.90	2.07	0.76	2.88	8.61	32.18	123.01	94.2	0	8252
PM25 mass	pm25	4.82	3.22	3.86	1.99	1.00	1.00	4.00	11.70	20.00	94.2	0	345
SO2	air	0.22	0.14	0.19	1.71	0.02	0.08	0.20	0.46	2.93	97.4	0	8535
SO4--	pm10	0.30	0.17	0.25	1.84	0.04	0.08	0.27	0.65	1.03	98.9	0	362
SO4--	pm25	0.24	0.13	0.21	1.91	0.02	0.06	0.23	0.47	0.66	16.4	1	60
SO4-- corr	pm10	0.28	0.16	0.23	1.89	0.03	0.07	0.25	0.62	0.90	98.9	0	362
SO4-- corr	pm25	0.24	0.13	0.20	2.02	0.01	0.05	0.22	0.46	0.65	16.4	1	60

ES0010R Cabo de Creus
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.68	0.51	0.55	1.89	0.04	0.21	0.52	1.71	3.70	94.0	1	344
NH3+NH4+	air+aerosol	1.40	0.63	1.27	1.58	0.37	0.56	1.31	2.56	3.64	94.0	0	344
NO	air	0.16	0.29	0.08	3.35	0.00	0.01	0.08	0.53	7.00	96.0	0	8408
NO2	air	1.31	1.10	0.97	2.28	0.01	0.24	1.02	3.33	15.98	96.0	0	8408
NO3-	pm10	0.46	0.30	0.37	1.92	0.04	0.13	0.38	1.06	1.74	94.8	0	347
PM10 mass	pm10	17.40	6.81	16.34	1.41	6.00	10.00	16.00	32.40	65.00	94.2	0	345
PM25 mass	pm25	8.49	5.00	7.46	1.63	2.00	4.00	7.00	19.55	34.00	89.6	0	328
SO2	air	0.25	0.10	0.23	1.44	0.08	0.13	0.24	0.42	1.08	97.6	0	8549
SO4--	pm10	0.65	0.42	0.55	1.75	0.13	0.24	0.54	1.59	2.56	94.8	0	347

ES0011R Barcarrota
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.25	0.15	0.21	1.81	0.03	0.09	0.21	0.57	1.13	96.4	9	353
NH3+NH4+	air+aerosol	0.84	0.38	0.76	1.54	0.17	0.40	0.76	1.71	2.32	96.4	0	353
NO	air	0.07	0.16	0.04	2.19	0.00	0.02	0.03	0.21	5.89	95.1	0	8327
NO2	air	0.70	0.45	0.60	1.69	0.05	0.27	0.58	1.42	5.29	95.1	0	8327
NO3-	pm10	0.25	0.13	0.22	1.68	0.04	0.10	0.22	0.51	0.91	95.1	0	348
PM10 mass	pm10	15.27	9.29	13.19	1.70	2.00	6.00	14.00	33.00	68.00	94.5	0	346
PM25 mass	pm25	8.46	5.12	7.29	1.73	1.00	3.00	8.00	17.00	53.00	94.8	0	347
SO2	air	0.21	0.12	0.19	1.56	0.03	0.10	0.19	0.42	2.32	97.3	0	8524
SO4--	pm10	0.44	0.30	0.37	1.81	0.04	0.16	0.34	1.04	2.39	95.1	0	348

ES0012R Zarra
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.44	0.25	0.36	1.96	0.03	0.10	0.41	0.91	1.51	99.4	3	363
NH3+NH4+	air+aerosol	1.37	0.68	1.18	1.80	0.22	0.38	1.37	2.53	3.28	99.4	0	363
NO	air	0.05	0.07	0.03	2.50	0.00	0.01	0.03	0.16	1.24	98.3	0	8607
NO2	air	0.69	0.43	0.57	1.98	0.01	0.17	0.61	1.52	5.35	98.3	0	8607
NO3-	pm10	0.33	0.19	0.28	1.81	0.04	0.09	0.29	0.73	1.14	98.9	0	362
PM10 mass	pm10	11.77	9.59	9.50	1.91	1.00	3.00	10.00	27.00	123.00	98.6	0	361
PM10 mass	pm10	15.11	13.94	11.69	2.02	0.81	3.69	11.78	38.25	274.18	84.1	0	7363
PM25 mass	pm25	5.96	3.04	5.18	1.75	1.00	2.00	6.00	11.10	22.00	97.5	0	357
SO2	air	0.26	0.18	0.21	1.98	0.02	0.06	0.24	0.57	2.34	97.6	0	8554
SO4--	pm10	0.49	0.30	0.40	1.88	0.10	0.13	0.42	1.08	1.60	98.9	0	362

ES0013R Penausende
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.32	0.20	0.27	1.87	0.03	0.12	0.27	0.76	1.28	95.8	11	350
NH3+NH4+	air+aerosol	1.24	0.61	1.10	1.69	0.21	0.42	1.18	2.41	3.23	97.2	0	355
NO	air	0.09	0.17	0.05	2.44	0.00	0.01	0.05	0.24	4.64	93.4	0	8186
NO2	air	0.94	0.80	0.66	2.59	0.00	0.09	0.74	2.30	10.07	93.4	0	8186
NO3-	pm10	0.23	0.17	0.18	1.99	0.02	0.06	0.18	0.61	0.99	94.5	0	346
PM10 mass	pm10	9.23	6.96	7.43	1.92	1.00	3.00	8.00	21.70	52.00	94.2	0	345
PM10 mass	pm10	11.92	10.04	8.97	2.20	0.00	2.53	9.15	31.43	86.33	97.0	0	8500
PM25 mass	pm25	5.79	3.62	4.79	1.90	1.00	2.00	5.00	12.00	25.00	89.9	0	329
SO2	air	0.18	0.18	0.14	2.13	0.02	0.04	0.13	0.47	2.78	96.9	0	8489
SO4--	pm10	0.30	0.17	0.26	1.70	0.05	0.11	0.26	0.64	1.07	94.5	0	346

ES0014R Els Torms
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.41	0.32	0.32	1.96	0.04	0.12	0.32	1.04	2.43	95.3	0	349
Ca++	pm25	0.11	0.07	0.08	2.36	0.01	0.01	0.09	0.24	0.33	16.4	3	60
Cl-	pm10	0.13	0.11	0.10	1.93	0.04	0.04	0.10	0.32	0.78	16.4	13	60
Cl-	pm25	0.09	0.06	0.08	1.76	0.05	0.05	0.05	0.21	0.23	16.4	34	60
HNO3+NO3-	air+aerosol	0.44	0.35	0.35	1.93	0.04	0.14	0.34	1.14	2.80	96.7	5	354
K+	pm10	0.14	0.15	0.10	2.11	0.02	0.04	0.09	0.45	1.27	95.3	0	349
K+	pm25	0.10	0.11	0.07	2.37	0.02	0.02	0.06	0.26	0.75	16.4	0	60
Mg++	pm10	0.05	0.04	0.04	2.04	0.01	0.01	0.04	0.14	0.27	95.3	5	349
Mg++	pm25	0.02	0.01	0.01	1.57	0.01	0.01	0.01	0.04	0.05	16.4	11	60
NH3	air	2.98	1.52	2.60	1.73	0.53	0.83	2.77	6.43	7.72	85.8	0	53
NH3+NH4+	air+aerosol	2.88	0.85	2.75	1.38	0.74	1.48	2.85	4.36	5.56	98.9	0	362
NH4+	pm10	0.65	0.41	0.52	2.05	0.05	0.18	0.55	1.52	2.11	16.4	0	60
NH4+	pm25	0.48	0.32	0.37	2.21	0.03	0.07	0.38	1.19	1.40	16.4	0	60
NO	air	0.08	0.18	0.04	2.68	0.00	0.01	0.03	0.25	3.03	97.9	0	8574
NO2	air	1.09	0.81	0.87	1.95	0.03	0.31	0.84	2.66	7.78	97.9	0	8574
NO3-	pm10	0.27	0.33	0.18	2.25	0.03	0.06	0.16	0.88	2.88	95.6	0	350
NO3-	pm25	0.13	0.20	0.06	3.51	0.01	0.01	0.05	0.58	1.07	16.4	10	60
Na+	pm10	0.43	0.30	0.35	1.86	0.08	0.14	0.35	0.99	2.16	95.3	0	349
Na+	pm25	0.09	0.06	0.07	1.94	0.02	0.02	0.08	0.18	0.38	16.4	8	60
PM10 mass	pm10	14.28	7.39	12.62	1.65	3.00	5.00	13.00	31.00	43.00	95.3	0	349
PM25 mass	pm25	8.34	4.44	7.31	1.67	2.00	3.00	7.00	16.30	32.00	96.4	0	353
SO2	air	0.36	0.30	0.29	1.92	0.00	0.11	0.28	0.84	6.09	98.2	0	8600
SO4--	pm10	0.52	0.29	0.44	1.79	0.06	0.17	0.46	1.05	1.56	95.6	0	350
SO4--	pm25	0.49	0.25	0.42	1.83	0.05	0.16	0.42	0.99	1.12	16.4	0	60
SO4-- corr	pm10	0.48	0.28	0.40	1.87	0.05	0.15	0.41	1.00	1.50	95.6	0	350
SO4-- corr	pm25	0.48	0.25	0.41	1.84	0.05	0.15	0.41	0.98	1.11	16.4	0	60

ES0016R O Saviñao
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.32	0.20	0.27	1.83	0.04	0.12	0.28	0.67	1.74	97.8	12	358
NH3+NH4+	air+aerosol	1.59	0.68	1.45	1.57	0.44	0.62	1.52	2.94	3.91	98.4	0	360
NO	air	0.14	0.12	0.11	1.82	0.00	0.05	0.11	0.32	2.54	94.8	0	8302
NO2	air	0.90	0.58	0.73	1.97	0.01	0.22	0.79	2.01	5.62	94.8	0	8302
NO3-	pm10	0.19	0.13	0.15	2.14	0.01	0.03	0.16	0.45	0.81	98.6	3	361
PM10 mass	pm10	9.84	7.06	8.18	1.82	0.78	3.04	8.32	21.58	131.78	97.7	0	8555
PM10 mass	pm10	10.02	5.95	8.63	1.75	1.00	3.00	9.00	19.00	46.00	96.7	0	354
PM25 mass	pm25	8.31	5.22	6.84	1.94	1.00	2.00	7.00	17.00	36.00	82.7	0	303
SO2	air	0.28	0.30	0.22	1.83	0.04	0.09	0.22	0.65	7.83	98.6	0	8640
SO4--	pm10	0.43	0.27	0.36	1.83	0.06	0.13	0.37	0.94	1.70	98.6	0	361

ES0017R Doñana
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.59	0.38	0.51	1.72	0.15	0.21	0.51	1.16	4.83	99.5	0	364
NH3+NH4+	air+aerosol	1.80	0.73	1.64	1.54	0.49	0.75	1.66	3.13	3.83	97.8	0	358
NO	air	0.13	0.16	0.09	2.31	0.00	0.02	0.08	0.35	3.36	98.1	0	8590
NO2	air	0.55	0.56	0.35	2.74	0.01	0.05	0.37	1.60	7.24	98.1	0	8590
NO3-	pm10	0.45	0.25	0.38	1.88	0.01	0.13	0.42	0.90	1.68	97.8	1	358
PM10 mass	pm10	16.96	9.09	14.91	1.69	1.00	7.00	15.50	32.00	79.00	96.7	0	354
SO2	air	0.17	0.18	0.13	1.76	0.00	0.06	0.13	0.38	3.89	96.9	0	8488
SO4--	pm10	0.75	0.46	0.63	1.79	0.09	0.26	0.62	1.68	2.54	97.8	0	358

FI0009R Utö
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.08	0.11	0.05	2.29	0.00	0.01	0.05	0.22	1.10	98.4	0	361
Cl-	aerosol	0.75	0.81	0.32	5.07	0.00	0.02	0.44	2.31	4.44	98.4	0	361
HNO3	air	0.10	0.09	0.06	2.72	0.00	0.01	0.07	0.27	0.73	99.3	0	364
HNO3+NO3-	air+aerosol	0.31	0.26	0.22	2.33	0.01	0.05	0.23	0.88	1.72	98.4	0	361
K+	aerosol	0.05	0.04	0.04	2.08	0.00	0.01	0.04	0.12	0.27	98.2	0	360
Mg++	aerosol	0.09	0.06	0.07	2.31	0.01	0.01	0.07	0.20	0.33	98.4	0	361
NH3	air	0.08	0.08	0.05	2.92	0.00	0.00	0.07	0.22	0.82	99.0	0	363
NH3+NH4+	air+aerosol	0.29	0.29	0.20	2.30	0.02	0.05	0.20	0.99	1.81	97.3	0	357
NH4+	aerosol	0.21	0.27	0.12	2.83	0.00	0.02	0.13	0.70	1.73	97.6	0	358
NO2	air	0.90	0.79	0.68	2.09	-0.63	0.22	0.66	2.41	8.54	98.6	0	8635
NO3-	aerosol	0.21	0.22	0.14	2.60	0.01	0.03	0.15	0.68	1.57	98.4	0	361
Na+	aerosol	0.71	0.55	0.50	2.49	0.04	0.10	0.55	1.70	2.90	98.4	0	361
PM25 mass	pm25	4.97	5.18	3.45	2.84	-0.46	-0.04	3.76	14.27	55.16	98.9	0	8662
SO2	air	0.11	0.10	0.07	2.47	0.01	0.02	0.08	0.34	0.53	99.3	0	364
SO4--	aerosol	0.28	0.20	0.22	2.04	0.01	0.06	0.25	0.57	1.58	98.4	0	361
SO4-- corr	aerosol	0.22	0.20	0.15	2.69	0.00	0.02	0.17	0.53	1.51	98.4	0	361

FI0018R Virolahti III
January 2015 - December 2015

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	0.04	3.05	0.00	0.01	0.04	0.31	0.63	97.8	0	357
Cl-	aerosol	0.15	0.24	0.04	6.22	0.00	0.00	0.05	0.62	1.50	97.8	0	357
HNO3	air	0.08	0.06	0.06	2.39	0.00	0.01	0.06	0.20	0.45	99.7	0	364
HNO3+NO3-	air+aerosol	0.20	0.18	0.14	2.31	0.01	0.03	0.15	0.50	1.79	97.8	0	357
K+	aerosol	0.05	0.04	0.04	2.10	0.00	0.01	0.04	0.14	0.33	97.8	0	357
Mg++	aerosol	0.03	0.03	0.02	2.59	0.00	0.00	0.02	0.09	0.15	97.8	0	357
NH3	air	0.10	0.09	0.06	3.38	0.00	0.00	0.08	0.26	0.45	99.4	0	363
NH3+NH4+	air+aerosol	0.29	0.24	0.21	2.20	0.02	0.06	0.23	0.78	2.07	97.2	0	355
NH4+	aerosol	0.19	0.22	0.12	2.82	0.00	0.03	0.13	0.68	2.00	97.5	0	356
NO2	air	1.11	0.99	0.83	2.10	-0.04	0.25	0.81	2.89	12.56	98.2	0	8600
NO3-	aerosol	0.12	0.15	0.07	3.14	0.00	0.01	0.08	0.36	1.60	97.8	0	357
Na+	aerosol	0.23	0.23	0.14	3.03	0.00	0.02	0.15	0.71	1.31	97.8	0	357
PM10 mass	pm10	9.17	8.34	7.01	2.13	-0.28	1.91	7.29	22.31	182.09	98.5	0	8626
PM25 mass	pm25	5.29	4.16	4.19	1.99	-0.46	1.45	4.11	12.78	44.41	98.3	0	8609
SO2	air	0.20	0.21	0.13	2.66	0.01	0.02	0.13	0.67	1.39	99.7	0	364
SO2	air	0.22	0.37	0.11	3.26	-0.04	0.02	0.09	0.86	4.47	98.9	0	8666
SO4--	aerosol	0.27	0.20	0.21	2.12	0.00	0.07	0.22	0.73	1.59	97.8	0	357
SO4-- corr	aerosol	0.25	0.20	0.19	2.31	0.00	0.05	0.20	0.73	1.57	97.8	0	357

FI0022R Oulanka
January 2015 - December 2015

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	2.07	0.00	0.00	0.01	0.06	0.09	95.7	0	51
Cl-	aerosol	0.05	0.11	0.01	18.19	0.00	0.00	0.01	0.29	0.62	95.7	0	51
HNO3	air	0.03	0.02	0.02	2.76	0.00	0.01	0.02	0.07	0.08	97.6	0	52
HNO3+NO3-	air+aerosol	0.04	0.03	0.03	1.86	0.01	0.02	0.03	0.12	0.20	95.7	0	51
K+	aerosol	0.02	0.01	0.02	1.85	0.00	0.01	0.02	0.05	0.06	95.7	0	51
Mg++	aerosol	0.01	0.01	0.01	1.87	0.00	0.00	0.01	0.04	0.06	95.7	0	51
NH3	air	0.02	0.02	0.01	3.98	0.00	0.00	0.02	0.07	0.10	97.6	0	52
NH3+NH4+	air+aerosol	0.10	0.06	0.08	2.08	0.01	0.02	0.09	0.23	0.30	95.7	0	51
NH4+	aerosol	0.08	0.05	0.06	2.13	0.01	0.01	0.07	0.18	0.28	95.7	0	51
NO3-	aerosol	0.01	0.02	0.01	4.60	0.00	0.00	0.01	0.07	0.13	95.7	0	51
Na+	aerosol	0.11	0.09	0.08	2.16	0.02	0.02	0.09	0.29	0.47	95.7	0	51
SO2	air	0.20	0.23	0.10	3.53	0.00	0.02	0.10	0.85	1.05	97.6	0	52
SO4--	aerosol	0.20	0.11	0.17	1.92	0.03	0.05	0.20	0.41	0.43	95.7	0	51
SO4-- corr	aerosol	0.19	0.11	0.16	2.04	0.03	0.04	0.19	0.40	0.42	95.7	0	51

FI0036R Pallas (Matorova)
January 2015 - December 2015

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	2.87	0.00	0.00	0.01	0.04	0.18	95.4	0	356
Cl-	aerosol	0.16	0.29	0.03	8.78	0.00	0.00	0.04	0.75	2.42	95.6	0	357
HNO3	air	0.02	0.03	0.01	2.86	0.00	0.00	0.01	0.06	0.26	97.3	0	363
HNO3+NO3-	air+aerosol	0.04	0.04	0.03	2.24	0.00	0.01	0.03	0.10	0.30	95.1	0	355
K+	aerosol	0.02	0.02	0.01	2.60	0.00	0.00	0.01	0.04	0.17	95.6	0	357
Mg++	aerosol	0.02	0.02	0.01	3.31	0.00	0.00	0.01	0.06	0.17	95.6	0	357
NH3	air	0.02	0.02	0.01	2.69	0.00	0.00	0.01	0.06	0.24	97.0	0	362
NH3+NH4+	air+aerosol	0.08	0.08	0.06	2.47	0.01	0.01	0.06	0.21	0.61	94.6	0	353
NH4+	aerosol	0.07	0.07	0.04	3.38	0.00	0.00	0.05	0.19	0.58	95.4	0	356
NO3-	aerosol	0.02	0.02	0.01	3.06	0.00	0.00	0.01	0.05	0.23	95.6	0	357
Na+	aerosol	0.15	0.19	0.07	4.56	0.00	0.00	0.07	0.52	1.43	95.6	0	357
PM25 mass	pm25	3.43	1.71	3.15	1.48	-1.39	1.99	2.85	6.92	21.75	97.3	0	8527
SO2	air	0.18	0.59	0.03	4.91	0.01	0.01	0.03	0.87	6.57	97.3	0	363
SO4--	aerosol	0.18	0.21	0.10	3.10	0.00	0.01	0.10	0.60	1.83	95.6	0	357
SO4-- corr	aerosol	0.16	0.21	0.08	3.80	0.00	0.01	0.10	0.59	1.83	95.6	0	357

FI0037R Ähtäri II
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.03	0.03	0.02	2.19	0.00	0.00	0.02	0.11	0.13	97.0	0	51
Cl-	aerosol	0.08	0.13	0.02	6.68	0.00	0.00	0.03	0.41	0.60	97.0	0	51
HNO3	air	0.05	0.03	0.03	3.99	0.00	0.00	0.04	0.10	0.15	97.0	0	51
HNO3+NO3-	air+aerosol	0.10	0.07	0.08	2.00	0.01	0.02	0.08	0.20	0.49	95.1	0	50
K+	aerosol	0.04	0.02	0.03	1.76	0.00	0.01	0.04	0.07	0.09	97.0	0	51
Mg++	aerosol	0.02	0.01	0.02	1.82	0.00	0.01	0.02	0.05	0.06	97.0	0	51
NH3	air	0.07	0.05	0.04	3.18	0.00	0.00	0.06	0.16	0.21	98.9	0	52
NH3+NH4+	air+aerosol	0.18	0.10	0.16	1.80	0.04	0.05	0.18	0.30	0.64	95.1	0	50
NH4+	aerosol	0.12	0.10	0.09	2.19	0.02	0.02	0.08	0.27	0.61	95.1	0	50
NO2	air	0.49	0.33	0.42	1.76	0.10	0.18	0.40	1.10	5.04	98.9	0	8665
NO3-	aerosol	0.05	0.06	0.03	2.82	0.00	0.00	0.03	0.12	0.39	97.0	0	51
Na+	aerosol	0.15	0.11	0.12	2.05	0.02	0.04	0.12	0.44	0.48	97.0	0	51
SO2	air	0.09	0.09	0.06	2.71	0.00	0.01	0.06	0.29	0.47	97.0	0	51
SO4--	aerosol	0.20	0.11	0.17	1.83	0.03	0.06	0.19	0.44	0.51	97.0	0	51
SO4-- corr	aerosol	0.19	0.11	0.16	1.92	0.03	0.05	0.18	0.42	0.48	97.0	0	51

FR0009R Revin
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm25	0.22	0.12	0.19	1.67	0.07	0.08	0.19	0.46	0.65	16.2	0	59
OC	pm25	1.78	1.00	1.57	1.64	0.60	0.70	1.47	4.23	5.31	16.2	0	59
PM25 mass	pm25	14.91	10.78	12.19	1.94	0.00	4.00	13.00	33.00	124.00	81.2	0	7110
TC	pm25	1.99	1.09	1.76	1.61	0.71	0.90	1.64	4.58	5.96	16.2	0	59

FR0010R Morvan
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM25 mass	pm25	9.68	7.14	8.03	1.85	0.00	3.00	8.00	20.00	81.00	87.7	0	7682

FR0013R Peyrusse Vieille
January 2015 - December 2015

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	0.03	1.41	0.03	0.03	0.03	0.11	0.11	5.2	17	19
Cl-	pm25	0.05	0.03	0.04	1.43	0.04	0.04	0.04	0.13	0.13	5.2	17	19
EC	pm25	0.24	0.12	0.21	1.89	0.05	0.05	0.26	0.47	0.47	4.9	0	18
K+	pm25	0.11	0.18	0.05	3.33	0.01	0.01	0.05	0.68	0.68	5.2	2	19
Mg++	pm25	0.01	0.01	0.01	2.62	0.00	0.00	0.01	0.04	0.04	5.2	1	19
NH4+	pm25	0.12	0.10	0.08	2.79	0.01	0.01	0.10	0.45	0.45	5.2	0	19
NO3-	pm25	0.08	0.05	0.07	2.02	0.03	0.03	0.08	0.18	0.18	5.2	9	19
Na+	pm25	0.07	0.06	0.05	2.39	0.01	0.01	0.06	0.21	0.21	5.2	0	19
OC	pm25	2.39	1.00	2.19	1.58	0.63	0.63	2.16	4.72	4.72	4.9	0	18
PM10 mass	pm10	15.83	9.22	13.60	1.79	0.00	5.00	14.00	30.00	117.00	53.7	0	4707
PM25 mass	pm25	8.72	5.01	7.33	1.91	0.00	2.00	8.00	18.00	33.00	30.1	0	2641
SO4--	pm25	0.44	0.38	0.32	2.37	0.06	0.06	0.40	1.68	1.68	5.2	0	19
SO4-- corr	pm25	0.44	0.38	0.31	2.44	0.04	0.04	0.39	1.67	1.67	5.2	0	19
TC	pm25	2.64	1.11	2.41	1.59	0.68	0.68	2.39	5.20	5.20	4.9	0	18

FR0014R Montandon
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	14.27	9.11	12.03	1.83	0.00	4.00	12.00	30.00	85.00	89.8	0	7865

FR0015R La Tardière
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	15.43	9.98	13.00	1.83	0.00	5.00	13.00	34.00	115.00	94.6	0	8286
PM25 mass	pm25	10.55	9.84	7.74	2.20	1.00	2.00	8.00	29.00	109.00	88.1	0	7721

FR0018R La Coulonche
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	15.29	10.37	12.30	2.01	0.00	3.00	13.00	35.00	101.00	96.6	0	8461
PM25 mass	pm25	8.19	8.35	6.04	2.32	-1.00	1.00	6.00	24.00	70.00	92.8	0	8125

FR0023R Saint-Nazaire-le-Désert
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.05	0.04	0.04	1.70	0.03	0.03	0.03	0.15	0.19	16.2	44	59
Cl-	pm25	0.04	0.01	0.04	1.16	0.04	0.04	0.04	0.04	0.09	16.2	57	59
EC	pm25	0.19	0.13	0.16	1.85	0.03	0.06	0.16	0.53	0.63	16.2	0	59
K+	pm25	0.04	0.05	0.02	2.88	0.01	0.01	0.02	0.16	0.20	16.2	17	59
Mg++	pm25	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.01	0.02	16.2	8	59
NH4+	pm25	0.12	0.16	0.07	2.58	0.01	0.01	0.07	0.61	0.82	16.2	0	59
NO3-	pm25	0.13	0.36	0.05	2.67	0.03	0.03	0.03	1.24	2.17	16.2	51	59
Na+	pm25	0.04	0.05	0.02	3.14	0.00	0.00	0.03	0.17	0.28	16.2	8	59
OC	pm25	2.37	1.49	2.02	1.76	0.54	0.69	2.03	4.80	9.68	16.2	0	59
PM10 mass	pm10	8.87	6.61	6.81	2.16	0.00	2.00	7.00	21.00	123.00	95.9	0	8400
PM25 mass	pm25	6.18	5.02	4.58	2.24	0.00	1.00	5.00	16.00	38.00	96.0	0	8409
SO4--	pm25	0.37	0.33	0.26	2.33	0.03	0.05	0.26	1.05	1.79	16.2	0	59
SO4-- corr	pm25	0.37	0.33	0.26	2.36	0.03	0.05	0.25	1.05	1.79	16.2	0	59
TC	pm25	2.56	1.60	2.19	1.75	0.57	0.77	2.25	5.33	10.32	16.2	0	59

FR0024R Guipry
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.01	0.03	1.17	0.03	0.03	0.03	0.03	0.08	16.2	57	59
Cl-	pm25	0.17	0.19	0.10	2.64	0.04	0.04	0.09	0.69	0.84	16.2	25	59
EC	pm25	0.34	0.23	0.29	1.76	0.07	0.11	0.28	0.82	1.28	16.2	0	59
K+	pm25	0.04	0.04	0.03	2.74	0.01	0.01	0.03	0.15	0.17	16.2	16	59
Mg++	pm25	0.01	0.01	0.01	2.86	0.00	0.00	0.01	0.04	0.06	16.2	3	59
NH4+	pm25	0.19	0.25	0.10	3.46	0.00	0.02	0.10	0.53	1.71	16.2	1	59
NO3-	pm25	0.33	0.62	0.13	3.73	0.03	0.03	0.12	1.59	4.04	16.2	21	59
Na+	pm25	0.15	0.14	0.10	3.02	0.00	0.01	0.11	0.47	0.67	16.2	1	59
OC	pm25	2.03	1.30	1.68	1.88	0.41	0.56	1.60	4.82	5.73	16.2	0	59
PM10 mass	pm10	13.88	8.41	11.78	1.80	0.00	4.00	12.00	30.00	83.00	96.5	0	8452
PM25 mass	pm25	9.03	8.73	6.64	2.37	0.00	1.00	6.50	25.00	73.00	95.6	0	8376
SO4--	pm25	0.36	0.33	0.26	2.53	0.00	0.09	0.26	0.84	2.18	16.2	1	59
SO4-- corr	pm25	0.34	0.33	0.24	2.67	0.00	0.07	0.25	0.84	2.17	16.2	1	59
TC	pm25	2.37	1.49	1.98	1.85	0.50	0.67	1.85	5.93	6.90	16.2	0	59

FR0025R Verneuill
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.06	0.09	0.04	1.89	0.03	0.03	0.03	0.28	0.55	16.7	52	61
Cl-	pm25	0.07	0.08	0.05	1.83	0.04	0.04	0.04	0.20	0.53	16.7	52	61
EC	pm25	0.22	0.13	0.17	2.58	0.00	0.06	0.18	0.51	0.66	16.7	1	61
K+	pm25	0.05	0.04	0.04	2.50	0.01	0.01	0.04	0.17	0.19	16.7	8	61
Mg++	pm25	0.01	0.01	0.01	2.85	0.00	0.00	0.01	0.03	0.04	16.7	6	61
NH4+	pm25	0.16	0.27	0.08	2.84	0.01	0.01	0.08	0.88	1.46	16.7	0	61
NO3-	pm25	0.27	0.71	0.07	3.54	0.03	0.03	0.03	2.45	3.61	16.7	35	61
Na+	pm25	0.09	0.09	0.05	3.20	0.00	0.00	0.06	0.26	0.49	16.7	3	61
OC	pm25	2.35	1.49	2.01	1.71	0.77	0.93	2.00	6.16	7.71	16.7	0	61
PM25 mass	pm25	11.65	10.01	9.28	1.96	0.00	3.00	9.00	26.00	109.00	96.0	0	8411
SO4--	pm25	0.36	0.29	0.28	2.05	0.07	0.08	0.28	0.95	1.63	16.7	0	61
SO4-- corr	pm25	0.36	0.29	0.27	2.11	0.07	0.08	0.28	0.95	1.63	16.7	0	61
TC	pm25	2.56	1.60	2.20	1.71	0.82	0.98	2.13	6.66	8.37	16.7	0	61

FR0030R Puy de Dôme
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.12	0.23	0.09	1.98	0.01	0.03	0.08	0.29	7.00	95.7	0	8379
NO2	air	0.43	0.50	0.31	2.12	0.02	0.10	0.30	1.16	11.91	95.7	0	8379
SO2	air	0.32	0.21	0.27	1.84	0.02	0.10	0.27	0.69	2.06	71.2	0	6234

GB0002R Eskdalemuir
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.18	0.18	0.16	1.56	0.01	0.09	0.16	0.34	5.15	98.1	8507	8594
NO2	air	0.67	0.86	0.45	2.33	-0.04	0.13	0.42	2.02	11.45	98.1	6313	8594

GB0006R Lough Navar
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	6.59	6.48	5.00	2.51	-4.00	-0.20	5.10	17.90	134.00	94.8	4084	8302

GB0013R Yarner Wood
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.21	0.32	0.17	1.86	-0.03	0.07	0.16	0.49	12.09	98.6	8409	8636
NO2	air	1.19	1.20	0.78	2.60	-0.08	0.16	0.74	3.57	12.29	98.6	4114	8636

GB0014R High Muffles
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.56	0.71	0.47	1.60	0.03	0.26	0.44	1.05	21.06	92.0	7136	8063
NO2	air	1.62	2.00	0.98	2.69	-0.06	0.23	0.90	5.27	17.13	92.0	3292	8062

GB0031R Aston Hill
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.20	0.20	0.16	1.73	0.00	0.08	0.15	0.50	4.65	98.0	8333	8583
NO2	air	1.01	1.29	0.51	3.40	-0.05	0.07	0.45	3.46	12.65	98.0	5316	8582

GB0033R Bush
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.49	0.85	0.34	2.04	0.01	0.14	0.30	1.37	20.99	99.2	7615	8694
NO2	air	1.85	2.20	1.09	2.88	-0.12	0.20	1.04	6.33	23.96	99.2	2990	8693

GB0036R Harwell
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.11	0.16	0.04	7.31	0.00	0.00	0.07	0.37	4.41	66.8	1473	5856
Ca++	pm25	0.04	0.06	0.01	3.96	0.00	0.00	0.00	0.12	0.75	67.5	3072	5915
Cl-	pm10	1.52	1.69	0.51	6.91	0.02	0.02	0.91	5.02	12.16	68.7	1035	6014
Cl-	pm25	0.80	1.00	0.25	6.69	0.02	0.02	0.43	2.81	8.31	69.3	1602	6073
HNO3	air	0.03	0.03	0.02	3.21	0.00	0.00	0.02	0.09	0.32	68.4	785	5989
K+	pm10	0.09	0.07	0.06	2.93	0.00	0.01	0.09	0.21	1.73	68.7	1480	6020
K+	pm25	0.06	0.06	0.03	3.40	0.01	0.01	0.04	0.17	0.55	69.4	2829	6076
Mg++	pm10	0.13	0.13	0.06	4.41	0.00	0.00	0.09	0.40	0.80	68.9	962	6038
Mg++	pm25	0.08	0.08	0.03	4.63	0.00	0.00	0.05	0.24	0.60	69.6	1561	6096
NH3	air	1.69	1.44	1.30	2.01	0.20	0.44	1.24	4.59	12.03	69.7	0	6109
NH4+	pm10	0.78	1.20	0.32	5.08	0.00	0.00	0.38	3.03	10.73	68.7	314	6019
NH4+	pm25	0.73	1.14	0.32	4.37	0.00	0.04	0.35	2.83	10.27	69.3	211	6072
NO3-	pm10	0.62	0.97	0.30	3.35	0.00	0.04	0.29	2.30	9.30	68.7	18	6018
NO3-	pm25	0.53	0.89	0.24	3.56	0.00	0.03	0.23	2.09	8.59	69.3	28	6075
Na+	pm10	0.98	0.92	0.54	3.69	0.01	0.05	0.71	2.88	6.21	68.9	170	6038
Na+	pm25	0.56	0.56	0.28	4.11	0.01	0.01	0.38	1.71	4.25	69.6	429	6094
PM10 mass	pm10	11.63	7.46	10.11	1.65	3.13	5.00	9.50	26.33	54.83	97.8	0	357
PM10 mass	pm10	15.06	9.31	12.88	1.79	-3.10	4.90	13.10	31.80	104.30	89.2	430	7818
PM25 mass	pm25	6.91	6.55	5.31	1.96	0.54	2.04	4.92	19.65	54.29	97.8	17	357
PM25 mass	pm25	8.55	7.85	6.44	2.17	-3.50	1.80	6.20	23.80	70.60	96.1	3057	8414
SO2	air	0.07	0.05	0.07	1.62	0.02	0.04	0.06	0.17	0.73	69.7	1	6110
SO4--	pm10	0.50	0.37	0.41	1.89	0.03	0.14	0.41	1.15	4.65	68.7	0	6018
SO4--	pm25	0.44	0.35	0.35	1.94	0.00	0.12	0.35	1.07	4.43	69.3	1	6074
SO4-- corr	pm10	0.42	0.37	0.31	2.17	0.03	0.09	0.31	1.09	4.64	68.7	0	6017
SO4-- corr	pm25	0.40	0.35	0.29	2.17	0.00	0.08	0.30	1.04	4.42	69.3	1	6073

GB0037R Ladybower Res.
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.97	0.14	0.97	1.14	0.65	0.79	0.96	1.20	1.84	4.4	2	384
NO2	air	1.49	1.58	1.00	3.12	-0.29	-0.11	0.91	4.33	8.84	4.4	166	384
SO2	air	0.83	0.42	0.75	1.58	0.21	0.32	0.80	1.43	3.83	4.4	377	383
SO2	air	0.83	0.45	0.73	1.74	0.00	0.28	0.77	1.54	4.76	4.3	1474	1501

GB0038R Lullington Heath
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.33	0.44	0.23	2.21	-0.04	0.07	0.21	0.97	6.88	66.9	5353	5860
NO2	air	2.13	1.94	1.46	2.61	-0.20	0.26	1.60	5.64	16.83	66.9	1249	5860
SO2	air	0.59	0.41	0.48	2.03	-0.14	0.13	0.52	1.30	6.33	95.2	8236	8336
SO2	air	0.59	0.43	0.50	1.93	-0.14	0.13	0.52	1.33	7.41	94.932800	33255	

GB0043R Narberth
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.35	0.33	0.30	1.59	-0.15	0.16	0.29	0.65	8.65	98.9	8289	8662
NO2	air	0.83	1.07	0.50	2.84	-0.13	0.08	0.48	2.81	13.59	98.9	5590	8662
PM10 mass	pm10	11.56	8.74	8.99	2.20	-3.80	2.10	9.80	27.30	115.90	86.3	1505	7563
SO2	air	0.45	0.41	0.34	2.15	0.00	0.09	0.34	1.12	5.62	96.8	8378	8477
SO2	air	0.45	0.42	0.37	1.99	0.00	0.00	0.37	1.14	6.29	95.833142	33561	

GB0045R Wicken Fen
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.54	1.09	0.33	2.31	-0.02	0.11	0.29	1.62	21.04	96.6	7201	8465
NO2	air	2.23	2.01	1.53	2.63	-0.23	0.25	1.67	6.30	18.48	96.5	1568	8453
SO2	air	1.42	1.49	0.87	2.81	0.00	0.16	0.93	4.72	11.98	49.4	3373	4325
SO2	air	1.43	1.51	0.92	2.71	0.00	0.13	0.95	4.75	12.47	48.513220	16981	

GB0048R Auchencorth Moss
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.04	0.04	0.03	2.66	0.00	0.00	0.03	0.10	0.68	56.3	220	4928
Ca++	pm25	0.02	0.03	0.01	2.92	0.00	0.00	0.01	0.05	0.70	53.2	543	4663
Cl-	pm10	1.19	1.27	0.60	3.90	0.00	0.05	0.73	3.75	8.39	65.3	25	5719
Cl-	pm25	0.63	0.71	0.32	3.83	0.01	0.03	0.38	2.07	5.20	61.5	48	5387
HNO3	air	0.02	0.02	0.01	2.25	0.00	0.00	0.01	0.06	0.23	65.5	22	5738
K+	pm10	0.04	0.03	0.03	2.35	0.00	0.00	0.04	0.09	0.72	56.3	234	4928
K+	pm25	0.02	0.02	0.01	2.80	0.00	0.00	0.02	0.06	0.28	53.2	715	4662
Mg++	pm10	0.07	0.07	0.04	3.29	0.00	0.00	0.04	0.20	0.42	56.3	139	4928
Mg++	pm25	0.04	0.04	0.02	3.70	0.00	0.00	0.02	0.12	0.30	53.2	331	4663
NH3	air	0.76	0.77	0.54	2.23	0.04	0.17	0.50	2.19	11.83	64.7	0	5669
NH4+	pm10	0.43	0.79	0.18	3.77	0.00	0.03	0.17	1.95	7.86	54.6	54	4781
NH4+	pm25	0.36	0.66	0.16	3.42	0.00	0.03	0.15	1.46	5.51	52.9	27	4633
NO3-	pm10	0.28	0.57	0.09	4.15	0.00	0.01	0.08	1.42	4.98	65.5	2	5738
NO3-	pm25	0.20	0.47	0.07	3.98	0.00	0.01	0.06	1.00	4.73	61.7	8	5407
Na+	pm10	0.60	0.59	0.32	3.78	0.00	0.03	0.40	1.78	3.79	55.6	60	4870
Na+	pm25	0.34	0.36	0.18	3.57	0.00	0.02	0.21	1.06	2.65	53.2	63	4663
PM10 mass	pm10	6.06	4.85	4.94	1.88	-0.88	1.79	4.88	15.69	44.17	97.3	24	355
PM10 mass	pm10	7.45	6.79	5.62	2.41	-4.00	0.45	5.80	20.40	78.20	72.1	2665	6317
PM25 mass	pm25	2.96	5.15	2.46	3.19	-4.00	-1.90	1.70	13.10	44.70	95.4	6708	8357
PM25 mass	pm25	3.39	3.90	2.38	2.43	-0.88	0.31	2.38	11.56	28.75	95.9	148	350
SO2	air	0.09	0.24	0.04	2.55	0.00	0.02	0.04	0.33	6.29	65.4	1	5727
SO4--	pm10	0.30	0.31	0.21	2.34	0.00	0.05	0.21	0.86	4.12	65.4	1	5727
SO4--	pm25	0.24	0.22	0.17	2.31	0.01	0.04	0.17	0.70	1.91	61.6	0	5395
SO4-- corr	pm10	0.25	0.31	0.15	2.73	0.00	0.03	0.15	0.82	4.10	65.4	1	5727
SO4-- corr	pm25	0.21	0.23	0.13	2.61	0.01	0.03	0.14	0.69	1.90	61.6	0	5395

GB0050R St. Osyth
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.18	1.51	0.67	3.09	-0.03	0.09	0.72	3.61	25.14	94.2	2609	8251
NO2	air	2.86	2.39	2.16	2.15	0.06	0.61	2.20	7.41	22.72	94.2	151	8248

GB0051R Market Harborough
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.35	1.10	0.16	3.23	-0.06	0.00	0.12	1.22	31.08	94.2	6599	8249
NO2	air	2.75	2.28	2.13	2.01	0.27	0.70	2.07	7.30	19.27	94.1	27	8247

GB0053R Charlton Mackrell
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.48	0.69	0.35	2.05	-0.02	0.13	0.32	1.27	16.96	98.8	7356	8652
NO2	air	1.84	1.58	1.36	2.27	-0.27	0.35	1.41	4.85	17.75	98.8	1693	8652

GR0001R Aliartos
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.80	4.19	0.83	2.55	0.50	0.50	0.50	8.00	47.30	78.2	0	6848
NO2	air	3.69	3.45	2.40	2.60	0.30	0.60	2.40	11.00	22.60	78.2	0	6849
PM10 mass	pm10	31.86	18.53	27.50	1.74	1.00	11.00	28.00	66.00	194.00	63.4	0	5555
SO2	air	2.61	3.78	1.95	1.91	1.00	1.00	2.00	5.50	109.60	77.9	0	6821

HU0002R K-pusztá
January 2015 - December 2015

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	0.17	0.12	0.13	2.15	0.01	0.03	0.14	0.41	0.74	78.6	2	287
HNO3+NO3-	air+aerosol	0.66	0.55	0.50	2.11	0.01	0.17	0.48	1.67	4.74	78.3	1	286
NH3	air	1.51	0.91	1.23	1.97	0.09	0.38	1.34	3.24	4.76	78.6	0	287
NH3+NH4+	air+aerosol	2.39	1.19	2.09	1.74	0.11	0.84	2.22	4.55	6.58	78.6	0	287
NH4+	aerosol	0.89	0.88	0.45	4.60	0.00	0.02	0.63	2.66	5.07	78.6	9	287
NO2	air	1.30	0.72	1.11	1.94	0.01	0.50	1.13	2.88	4.32	99.9	2	365
NO3-	aerosol	0.49	0.55	0.28	2.93	0.01	0.06	0.28	1.50	4.53	78.6	0	287
OC	pm10	-	-	-	-	-	-	-	-	-	0.0	0	0
PM25 mass	pm25	17.35	10.60	14.74	1.78	2.98	5.83	14.73	38.37	92.87	98.0	0	358
SO2	air	0.68	0.81	0.40	2.99	0.01	0.06	0.39	2.41	6.68	78.8	2	288
SO4--	aerosol	0.99	0.76	0.74	2.23	0.03	0.21	0.76	2.48	4.49	78.6	0	287
TC	pm10	7.17	4.54	6.28	1.65	2.70	2.72	6.60	23.24	23.83	5.5	0	20

IE0001R Valentia Observatory
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.11	0.09	0.09	2.06	0.03	0.03	0.10	0.27	0.91	71.8	44	263
Cl-	aerosol	3.75	3.21	2.71	2.40	0.10	0.64	2.96	9.15	32.50	71.5	0	262
HNO3+NO3-	air+aerosol	0.36	1.17	0.21	2.15	0.04	0.06	0.19	0.94	16.65	68.9	0	252
K+	aerosol	0.10	0.07	0.08	2.04	0.03	0.03	0.08	0.21	0.69	72.3	60	265
Mg++	aerosol	0.25	0.21	0.19	2.35	0.03	0.03	0.20	0.62	2.28	72.1	18	264
NH3+NH4+	air+aerosol	0.69	1.25	0.53	1.73	0.14	0.27	0.49	1.39	17.46	68.6	0	251
NO2	air	1.90	2.34	1.07	2.91	0.05	0.20	1.00	6.91	14.00	97.5	2	357
Na+	aerosol	2.09	1.74	1.53	2.43	0.03	0.39	1.76	5.01	18.38	71.8	1	263
SO2	air	0.14	0.16	0.09	2.80	0.01	0.01	0.09	0.45	1.15	72.1	19	264
SO4--	aerosol	0.26	0.17	0.20	2.26	0.01	0.05	0.24	0.54	1.53	71.5	6	262
SO4-- corr	aerosol	0.09	0.12	0.06	2.64	-0.07	-0.03	0.06	0.28	0.97	71.5	6	262

IE0005R Oak Park
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.08	0.07	0.06	2.03	0.01	0.02	0.06	0.18	0.48	68.3	9	250
Cl-	aerosol	1.68	1.29	1.27	2.16	0.09	0.36	1.24	4.32	7.37	68.3	0	250
K+	aerosol	0.07	0.04	0.06	1.67	0.02	0.03	0.06	0.14	0.23	68.3	4	250
Mg++	aerosol	0.10	0.09	0.07	2.26	0.01	0.02	0.07	0.27	0.57	68.3	6	250
NH4+	aerosol	0.69	0.80	0.45	2.31	0.09	0.19	0.34	2.38	4.35	68.3	0	250
NO3-	aerosol	0.35	0.50	0.16	3.29	0.01	0.03	0.14	1.46	3.21	68.3	0	250
Na+	aerosol	0.90	0.72	0.64	2.44	0.03	0.13	0.69	2.32	4.29	68.3	2	250
SO4--	aerosol	0.36	0.28	0.29	1.96	0.01	0.12	0.27	0.94	1.86	68.3	2	250

IE0006R Malin Head
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.09	0.06	0.07	1.87	0.01	0.03	0.07	0.21	0.38	99.5	2	363
Cl-	aerosol	3.73	2.55	2.95	2.03	0.46	0.89	3.11	9.11	13.01	99.5	0	363
K+	aerosol	0.09	0.05	0.08	1.75	0.02	0.03	0.08	0.21	0.33	99.5	0	363
Mg++	aerosol	0.23	0.18	0.16	2.32	0.02	0.04	0.18	0.63	0.93	99.5	1	363
NH4+	aerosol	0.48	0.66	0.30	2.26	0.10	0.13	0.23	2.22	5.19	99.5	0	363
NO3-	aerosol	0.22	0.41	0.07	4.43	0.00	0.01	0.05	1.21	2.39	99.5	4	363
Na+	aerosol	2.00	1.43	1.55	2.11	0.17	0.42	1.63	5.11	7.32	99.5	0	363
SO4--	aerosol	0.38	0.23	0.33	1.63	0.11	0.17	0.32	0.87	1.83	99.5	0	363

IE0008R Carnsore Point
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.16	0.12	0.12	2.19	0.01	0.03	0.12	0.39	0.76	100.0	2	365
Cl-	aerosol	6.34	5.23	4.31	2.62	0.06	0.72	4.69	17.21	32.97	100.0	0	365
K+	aerosol	0.16	0.11	0.13	2.01	0.02	0.04	0.13	0.39	0.73	100.0	1	365
Mg++	aerosol	0.43	0.36	0.28	2.82	0.01	0.04	0.31	1.13	2.18	100.0	2	365
NH4+	aerosol	0.58	0.72	0.38	2.24	0.07	0.17	0.28	2.23	4.80	99.7	0	364
NO3-	aerosol	0.31	0.43	0.15	3.30	0.01	0.02	0.12	1.25	2.40	99.7	0	364
Na+	aerosol	3.53	2.78	2.43	2.65	0.03	0.41	2.67	8.93	16.82	100.0	1	365
SO4--	aerosol	0.16	0.12	0.12	2.19	0.01	0.03	0.12	0.39	0.76	100.0	2	365
SO4-- corr	aerosol	-0.13	0.13	0.03	2.98	-0.65	-0.37	-0.11	0.02	0.42	100.0	2	365

IS0002R Irafoss
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.18	0.15	0.12	2.74	0.00	0.02	0.14	0.47	1.08	97.0	14	354
Cl-	aerosol	1.26	1.61	0.61	3.99	0.01	0.04	0.68	4.73	13.84	97.0	16	354
K+	aerosol	0.06	0.06	0.04	2.58	0.00	0.01	0.04	0.18	0.35	97.0	96	354
Mg++	aerosol	0.20	0.22	0.12	2.97	0.01	0.01	0.12	0.57	1.72	97.0	7	354
Na+	aerosol	0.49	0.95	0.16	4.33	0.01	0.02	0.13	2.81	8.11	97.0	74	354
SO2	air	0.29	1.28	0.06	3.79	0.00	0.01	0.05	0.50	12.20	98.9	87	361
SO4--	aerosol	0.24	0.55	0.05	6.85	0.00	0.00	0.06	1.15	4.88	97.0	43	354
SO4-- corr	aerosol	0.17	0.52	0.07	5.67	-0.44	-0.19	0.04	1.07	4.56	97.0	43	354

IS0091R Storhofdi
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	7.17	3.27	6.72	1.54	3.50	3.52	6.80	15.50	15.90	87.0	0	23
NO3-	aerosol	0.02	0.02	0.01	3.49	0.00	0.00	0.01	0.07	0.08	87.0	0	23
SO4--	aerosol	0.38	0.15	0.36	1.45	0.18	0.19	0.38	0.78	0.81	87.0	0	23

IT0001R Montelibretti
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3	air	0.22	0.15	0.17	2.14	0.03	0.04	0.20	0.54	0.63	14.2	0	52
NH3	air	1.70	0.51	1.61	1.43	0.41	0.70	1.62	2.61	2.74	14.2	0	52
NH4+	aerosol	0.84	0.41	0.73	1.74	0.14	0.22	0.80	1.47	2.31	14.2	0	52
NO2	air	5.25	2.52	4.71	1.60	0.81	2.37	4.50	9.94	16.37	96.2	0	351
NO3-	aerosol	0.37	0.23	0.29	2.20	0.02	0.06	0.30	0.75	0.82	14.2	0	52
NO3-	pm10_pm25	0.16	0.13	0.12	2.44	0.00	0.01	0.13	0.42	0.61	14.2	0	52
NO3-	pm25	0.21	0.19	0.14	2.71	0.02	0.02	0.14	0.60	0.65	14.2	0	52
PM10 mass	pm10	27.05	12.58	23.94	1.70	3.10	9.65	25.50	50.47	73.10	96.4	0	352
SO2	air	0.16	0.12	0.12	2.21	0.02	0.03	0.12	0.40	0.57	14.2	0	52
SO4--	aerosol	0.55	0.37	0.45	1.91	0.09	0.12	0.46	1.35	1.90	14.2	0	52
SO4--	pm10_pm25	0.05	0.05	0.04	2.13	0.00	0.01	0.04	0.17	0.23	14.2	0	52
SO4--	pm25	0.50	0.36	0.40	2.00	0.09	0.10	0.39	1.26	1.87	14.2	0	52

IT0004R Ispra
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	328.77	225.57	275.50	1.75	110.00	144.00	224.00	812.30	1563.00	90.3	0	7906
Ca++	pm25	0.03	0.04	0.03	2.18	-0.02	-0.01	0.02	0.09	0.39	91.7	201	335
Cl-	pm25	0.08	0.12	0.05	3.41	-0.01	-0.01	0.02	0.34	0.83	91.7	160	335
EC	pm25	1.20	1.15	0.79	2.60	0.00	0.22	0.65	3.67	5.20	81.0	3	296
K+	pm25	0.25	0.31	0.13	3.54	-0.02	0.01	0.12	0.97	1.74	91.7	95	335
Mg++	pm25	0.01	0.01	0.01	1.61	0.00	0.00	0.00	0.02	0.14	91.4	150	334
NH4+	pm25	1.17	1.13	0.76	2.71	0.03	0.12	0.84	3.54	6.26	92.0	3	336
NO	air	2.12	5.07	0.38	7.46	-0.05	0.00	0.28	12.05	66.86	82.7	0	43468
NO2	air	5.78	3.92	4.71	1.90	0.46	1.69	4.61	13.95	27.03	78.3	0	6855
NO2	air	6.10	4.28	4.87	1.97	0.39	1.62	4.79	15.02	33.05	82.7	0	43466
NO3-	pm25	0.71	1.05	0.22	6.31	0.00	0.00	0.26	3.27	6.26	92.0	114	336
Na+	pm25	0.12	1.11	0.04	2.56	0.00	0.00	0.04	0.18	20.17	91.1	103	333
OC	pm25	5.58	5.40	3.63	2.68	-0.13	0.69	3.48	16.85	27.50	81.0	5	296
PM25 mass	pm25	17.50	14.73	12.13	2.59	0.07	2.34	12.46	47.13	73.76	90.6	19	331
SO2	air	0.37	0.41	0.26	2.82	-0.24	-0.03	0.26	1.16	5.20	91.0	0	7975
SO4--	pm25	0.59	0.45	0.45	2.28	0.00	0.10	0.48	1.51	2.23	92.0	5	336
SO4-- corr	pm25	0.59	0.45	0.44	2.29	0.00	0.10	0.47	1.51	2.23	92.0	5	336
TC	pm25	6.78	6.47	4.50	2.58	-0.13	1.00	4.19	20.08	32.04	81.0	1	296

LT0015R Preila
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.61	0.53	0.44	2.40	0.01	0.11	0.48	1.57	3.61	83.0	0	304
NH3+NH4+	air+aerosol	0.96	0.95	0.60	2.95	0.01	0.08	0.68	2.63	7.76	83.0	0	304
NO2	air	0.96	0.71	0.76	2.02	0.05	0.22	0.79	2.31	6.31	96.7	0	354
SO2	air	0.16	0.16	0.12	2.30	0.01	0.03	0.11	0.46	1.27	83.0	0	304
SO4--	aerosol	0.54	0.32	0.45	1.99	0.02	0.12	0.48	1.29	1.89	83.0	0	304

LV0010R Rucava
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.20	0.25	0.08	4.72	0.00	0.01	0.11	0.79	0.96	82.5	8	44
Cl-	pm25	0.15	0.48	0.03	4.81	0.00	0.00	0.02	0.81	3.08	82.5	19	44
HNO3	air	0.39	0.37	0.25	2.64	0.01	0.05	0.27	1.22	2.35	98.9	3	362
HNO3+NO3-	air+aerosol	0.44	0.39	0.31	2.33	0.03	0.07	0.31	1.29	2.42	98.5	0	360
K+	pm25	0.14	0.12	0.11	2.07	0.02	0.04	0.10	0.46	0.54	82.5	0	44
Mg++	pm25	0.02	0.01	0.02	2.18	0.00	0.00	0.02	0.06	0.06	82.5	1	44
NH3	air	0.22	0.28	0.10	3.70	0.00	0.02	0.10	0.82	1.71	99.2	166	363
NH3+NH4+	air+aerosol	0.83	0.71	0.56	2.61	0.03	0.09	0.66	2.32	4.01	99.2	176	363
NH4+	aerosol	0.66	0.61	0.44	2.66	0.02	0.09	0.48	1.82	3.92	99.5	17	364
NH4+	pm25	0.46	0.29	0.38	1.82	0.06	0.18	0.32	1.13	1.29	82.5	0	44
NO2	air	0.72	0.53	0.57	2.14	0.01	0.21	0.56	1.64	3.83	97.5	6	357
NO3-	aerosol	0.06	0.07	0.03	3.24	0.00	0.00	0.04	0.16	0.51	99.4	116	363
NO3-	pm25	0.14	0.17	0.08	2.98	0.01	0.01	0.08	0.60	0.70	80.5	0	43
Na+	pm25	0.22	0.30	0.15	2.26	0.03	0.04	0.17	0.73	1.94	82.5	0	44
PM10 mass	pm10	15.53	11.03	12.32	2.00	1.40	4.00	12.00	41.30	53.60	80.5	0	294
PM25 mass	pm25	10.47	8.01	8.03	2.11	0.40	2.35	7.70	26.93	44.10	74.0	0	270
SO2	air	0.22	0.23	0.15	2.42	0.01	0.04	0.14	0.63	1.55	99.7	8	365
SO4--	aerosol	0.31	0.28	0.22	2.36	0.01	0.05	0.23	0.87	2.41	99.7	8	365
SO4--	pm25	0.47	0.22	0.43	1.51	0.19	0.25	0.42	0.97	1.07	82.5	0	44
SO4-- corr	pm25	0.46	0.22	0.42	1.54	0.17	0.23	0.40	0.97	1.07	82.5	0	44

ME0008R Zabljak
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.82	1.46	2.47	1.73	0.76	0.76	2.75	5.50	12.22	99.7	0	364
SO2	air	3.12	1.38	2.81	1.61	1.25	1.25	3.50	4.50	15.02	97.5	0	356

MK0007R Lazaropole
January 2015 - December 2015

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	13.08	13.00	8.92	2.85	0.01	1.94	10.06	31.98	212.40	34.4	0	3010
SO2	air	1.21	1.00	0.94	2.14	0.03	0.24	1.06	2.79	20.93	78.5	0	6876

MT0001R Giordan Lighthouse
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.13	0.12	0.10	2.00	0.00	0.05	0.09	0.30	2.32	95.4	0	8360
NO2	air	0.77	0.74	0.55	2.43	0.00	0.10	0.59	2.13	12.43	95.2	0	8342

NL0007R Eibergen
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.87	2.31	0.34	3.60	-0.72	-0.01	0.28	3.67	30.89	98.3	0	8612
NO2	air	3.88	2.63	3.10	2.01	0.01	0.93	3.18	9.37	17.48	98.2	0	8605
PM10 mass	pm10	17.61	14.14	14.27	2.27	-19.89	0.59	14.67	42.83	120.91	99.2	0	8687
PM10 mass	pm10	17.66	10.16	15.63	1.61	1.55	7.84	15.04	39.51	73.76	98.9	0	361
SO2	air	0.44	0.92	0.54	2.92	-1.50	-0.77	0.33	1.84	10.39	96.4	0	8441

NL0008R Bilthoven
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.20	0.14	0.17	1.80	0.04	0.06	0.17	0.42	1.33	46.0	2	168
Mg++	pm10	0.14	0.10	0.10	2.26	0.01	0.02	0.11	0.35	0.49	46.0	5	168
Na+	pm10	0.96	0.81	0.63	2.80	0.04	0.09	0.77	2.72	4.02	46.0	0	168

NL0009R Kollumerwaard
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.45	1.38	0.22	3.73	-0.72	-0.12	0.14	1.84	25.51	99.1	0	8677
NO2	air	2.59	2.32	1.84	2.37	-1.07	0.44	1.87	7.53	16.69	99.0	0	8675
PM10 mass	pm10	15.33	12.69	12.35	2.27	-18.61	0.59	13.39	38.99	150.35	98.6	0	8633
PM10 mass	pm10	15.35	8.98	13.58	1.60	3.26	6.46	13.02	35.70	70.12	98.9	0	361
PM25 mass	pm25	10.82	13.04	6.37	3.19	-4.37	-0.15	5.58	40.34	104.60	35.8	0	3139
PM25 mass	pm25	10.83	11.46	6.84	2.72	-0.58	1.12	6.09	37.42	57.76	35.9	0	131
SO2	air	0.21	0.54	0.33	2.85	-1.45	-0.61	0.17	1.12	3.97	98.9	0	8667

NL0010R Vredepeel
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.49	3.36	0.53	3.91	-0.29	0.04	0.44	6.99	43.82	97.6	0	8551
NO2	air	4.94	3.41	3.90	2.04	-0.11	1.20	3.92	11.90	25.82	97.6	0	8550
PM10 mass	pm10	19.46	11.23	17.06	1.65	5.12	7.82	16.14	40.32	76.64	93.7	0	342
PM10 mass	pm10	19.50	14.83	15.63	2.17	-18.61	1.87	17.23	46.67	174.67	94.8	0	8307
PM25 mass	pm25	12.26	11.94	8.31	2.70	-4.53	0.92	8.07	37.77	81.85	46.3	0	4054
PM25 mass	pm25	12.28	10.21	9.16	2.15	1.49	2.78	8.37	38.74	50.94	46.3	0	169

NL0091R De Zilk
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	pm10	1.76	1.89	0.90	3.61	0.07	0.09	1.07	5.79	8.49	49.9	11	182
NH3	air	1.74	2.08	1.04	2.79	-0.11	0.21	0.98	6.37	17.94	90.2	0	7898
NH4+	pm10	0.82	1.15	0.35	3.92	0.02	0.04	0.33	3.79	6.97	49.9	2	182
NO	air	1.38	4.02	0.35	5.17	-0.33	-0.06	0.21	7.39	58.01	98.6	0	8633
NO2	air	4.55	4.04	2.99	2.69	-1.09	0.53	3.27	13.09	29.00	98.0	0	8583
NO3-	pm10	0.80	0.80	0.57	2.19	0.07	0.19	0.53	2.59	4.45	49.9	0	182
PM10 mass	pm10	16.72	8.62	15.05	1.57	4.64	7.28	14.51	31.82	70.67	100.0	0	365
PM10 mass	pm10	16.75	13.84	13.77	2.32	-25.01	-0.69	14.67	38.99	344.91	99.3	0	8701
PM25 mass	pm25	9.51	8.64	6.83	2.35	-0.32	1.65	7.08	27.60	63.94	96.7	0	353
PM25 mass	pm25	9.51	10.63	6.61	2.85	-4.95	-0.59	6.67	29.07	219.35	96.3	0	8437
SO2	air	0.57	0.89	0.48	2.66	-0.96	-0.26	0.43	1.87	47.60	99.7	0	8738
SO4--	pm10	0.58	0.35	0.51	1.65	0.15	0.23	0.49	1.26	2.74	49.9	0	182

NL0644R Cabauw Wielsekade
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	176.13	69.03	165.08	1.43	0.74	98.57	159.95	308.58	658.82	99.0	0	8672
Ca++	pm25	0.06	0.03	0.06	1.53	0.02	0.03	0.06	0.12	0.17	24.1	23	88
EC	pm25	0.29	0.14	0.25	1.62	0.09	0.12	0.24	0.59	0.73	25.2	0	92
Mg++	pm25	0.04	0.04	0.03	2.18	0.00	0.01	0.03	0.13	0.19	24.1	28	88
NO	air	1.57	3.80	0.54	4.31	-0.78	-0.19	0.38	8.41	47.68	95.9	0	8399
NO2	air	5.16	3.64	4.01	2.10	-1.26	1.14	4.11	12.76	23.55	95.5	0	8367
Na+	pm25	0.28	0.28	0.19	2.40	0.03	0.04	0.19	1.03	1.54	24.1	2	88
OC	pm25	2.28	1.17	2.04	1.58	1.03	1.11	1.86	4.96	5.53	25.2	0	92
PM10 mass	pm10	16.92	13.55	13.87	2.25	-19.89	-0.69	14.67	41.55	137.55	99.6	0	8726
PM10 mass	pm10	16.93	9.65	14.98	1.61	4.32	7.37	14.19	36.27	70.56	100.0	0	365
PM25 mass	pm25	11.24	11.79	7.71	2.98	-5.00	-0.84	7.73	35.07	98.23	64.9	0	5685
PM25 mass	pm25	11.31	10.00	8.08	2.37	-0.55	1.91	7.85	33.72	59.62	65.5	0	239
SO2	air	0.41	0.78	0.40	3.07	-1.27	-0.48	0.27	1.73	11.87	99.1	0	8685
TC	pm25	2.57	1.26	2.32	1.55	1.22	1.28	2.12	5.55	6.15	25.2	0	92

NO0002R Birkenes II
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.07	0.08	0.04	2.43	0.01	0.01	0.05	0.18	0.78	99.2	12	363
Cl-	aerosol	0.81	1.10	0.27	6.04	0.01	0.01	0.39	3.07	6.67	99.2	37	363
EC	pm10	0.09	0.07	0.07	1.92	0.02	0.03	0.07	0.24	0.35	98.1	0	52
EC	pm25	0.08	0.07	0.06	1.90	0.02	0.02	0.05	0.25	0.34	87.9	0	47
HNO3	air	0.05	0.07	0.03	2.93	0.01	0.01	0.03	0.17	0.62	93.7	159	343
HNO3+NO3-	air+aerosol	0.32	0.41	0.19	2.78	0.01	0.04	0.18	0.97	4.11	93.7	0	343
K+	aerosol	0.06	0.06	0.05	2.20	0.01	0.01	0.05	0.15	0.47	99.2	12	363
Mg++	aerosol	0.08	0.08	0.04	3.12	0.01	0.01	0.05	0.25	0.52	99.2	34	363
NH3	air	0.17	0.14	0.13	2.08	0.02	0.05	0.14	0.40	1.32	95.6	12	350
NH3+NH4+	air+aerosol	0.44	0.52	0.29	2.51	0.03	0.06	0.28	1.27	4.48	95.6	0	350
NH4+	aerosol	0.27	0.48	0.10	4.35	0.01	0.01	0.12	0.89	4.41	95.6	24	350
NO2	air	0.30	0.38	0.20	2.54	0.01	0.04	0.21	0.74	3.74	99.7	17	365
NO3-	aerosol	0.27	0.37	0.15	2.92	0.01	0.03	0.15	0.88	4.02	95.6	2	350
Na+	aerosol	0.61	0.68	0.31	3.87	0.01	0.02	0.41	2.01	4.35	99.2	2	363
OC	pm10	0.72	0.49	0.59	1.89	0.18	0.25	0.61	1.89	2.38	98.1	0	52
OC	pm25	0.52	0.35	0.44	1.81	0.13	0.20	0.39	1.38	1.69	87.9	0	47
PM10 mass	pm10	5.39	2.94	4.76	1.69	1.31	1.87	4.99	11.73	16.64	96.2	0	51
PM10-PM25	pm10_pm25	2.56	1.49	2.15	1.87	0.49	0.67	2.25	5.45	7.77	86.8	0	46
PM25 mass	pm25	2.70	1.84	2.32	1.76	0.63	0.89	2.36	7.59	9.56	90.4	0	48
SO2	air	0.07	0.23	0.03	3.23	0.01	0.01	0.02	0.21	3.79	99.2	180	363
SO4--	aerosol	0.29	0.43	0.17	3.00	0.01	0.02	0.19	0.80	4.77	99.2	9	363
SO4-- corr	aerosol	0.24	0.43	0.12	3.23	-0.02	0.01	0.12	0.75	4.74	99.2	9	363
TC	pm10	0.81	0.55	0.67	1.87	0.20	0.28	0.67	2.23	2.54	98.1	0	52
TC	pm25	0.60	0.42	0.50	1.81	0.16	0.23	0.46	1.66	2.00	87.9	0	47

NO0015R Tustervatn
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.03	0.05	0.02	2.37	0.01	0.01	0.02	0.09	0.65	97.8	46	358
Cl-	aerosol	0.37	0.69	0.09	6.47	0.01	0.01	0.09	1.68	5.72	97.8	112	358
HNO3	air	0.02	0.03	0.01	1.97	0.01	0.01	0.01	0.06	0.45	94.0	265	344
HNO3+NO3-	air+aerosol	0.14	0.22	0.07	2.76	0.01	0.02	0.07	0.66	1.66	94.0	0	344
K+	aerosol	0.04	0.19	0.02	2.49	0.01	0.01	0.02	0.07	3.11	97.8	56	358
Mg++	aerosol	0.03	0.05	0.02	3.00	0.01	0.01	0.02	0.12	0.37	97.8	112	358
NH3	air	0.50	0.55	0.32	2.65	0.01	0.07	0.31	1.78	3.51	94.0	8	344
NH3+NH4+	air+aerosol	0.61	0.61	0.41	2.45	0.02	0.09	0.41	1.91	3.76	94.0	0	344
NH4+	aerosol	0.11	0.20	0.04	4.51	0.01	0.01	0.04	0.54	1.54	94.0	69	344
NO2	air	0.08	0.05	0.06	2.30	0.01	0.01	0.07	0.17	0.31	100.0	78	366
NO3-	aerosol	0.12	0.21	0.05	3.51	0.01	0.01	0.05	0.59	1.64	94.0	31	344
Na+	aerosol	0.25	0.40	0.10	4.49	0.01	0.01	0.11	0.97	3.15	97.8	30	358
SO2	air	0.02	0.07	0.01	2.15	0.01	0.01	0.01	0.07	1.18	97.8	283	358
SO4--	aerosol	0.08	0.09	0.05	3.40	0.01	0.01	0.06	0.27	0.45	97.8	48	358
SO4-- corr	aerosol	0.06	0.08	0.04	3.30	-0.02	0.00	0.03	0.25	0.44	97.8	48	358

NO0039R Kärvatn
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.03	0.04	0.02	2.29	0.01	0.01	0.02	0.08	0.42	99.5	39	364
Cl-	aerosol	0.21	0.46	0.06	5.02	0.01	0.01	0.05	0.91	4.92	99.7	131	365
EC	pm10	0.04	0.03	0.04	1.92	0.01	0.01	0.04	0.11	0.14	98.1	0	52
EC	pm25	0.05	0.03	0.04	1.85	0.01	0.01	0.04	0.11	0.14	100.0	0	53
HNO3	air	0.02	0.02	0.01	1.97	0.01	0.01	0.01	0.07	0.16	95.6	278	350
HNO3+NO3-	air+aerosol	0.14	0.25	0.07	2.72	0.01	0.02	0.06	0.61	1.84	95.6	0	350
K+	aerosol	0.03	0.04	0.02	2.13	0.01	0.01	0.03	0.08	0.56	99.5	30	364
Mg++	aerosol	0.02	0.03	0.01	2.55	0.01	0.01	0.01	0.07	0.34	99.5	121	364
NH3	air	0.38	0.41	0.25	2.59	0.02	0.03	0.26	1.18	2.65	95.3	18	349
NH3+NH4+	air+aerosol	0.51	0.50	0.34	2.47	0.02	0.08	0.34	1.56	3.65	95.3	0	349
NH4+	aerosol	0.13	0.24	0.04	4.70	0.01	0.01	0.04	0.62	1.72	95.3	74	349
NO2	air	0.11	0.13	0.08	2.38	0.01	0.01	0.09	0.26	1.91	100.0	55	366
NO3-	aerosol	0.12	0.25	0.05	3.31	0.00	0.01	0.04	0.59	1.77	95.6	15	350
Na+	aerosol	0.16	0.27	0.06	4.06	0.01	0.01	0.07	0.59	2.95	99.5	33	364
OC	pm10	0.64	0.44	0.51	1.94	0.15	0.19	0.50	1.72	2.18	98.1	0	52
OC	pm25	0.47	0.30	0.40	1.74	0.15	0.16	0.39	1.35	1.49	100.0	0	53
PM10 mass	pm10	2.31	1.42	1.93	1.84	0.48	0.51	1.92	6.18	6.34	96.2	0	51
PM10-PM25	pm10_pm25	0.90	0.72	0.71	2.03	0.08	0.21	0.78	1.90	4.81	93.1	0	49
PM25 mass	pm25	1.51	1.04	1.17	2.17	0.18	0.24	1.30	4.02	4.54	100.0	0	53
SO2	air	0.03	0.19	0.01	2.14	0.01	0.01	0.01	0.08	3.43	99.7	314	365
SO4--	aerosol	0.09	0.12	0.04	3.72	0.00	0.01	0.06	0.29	1.06	99.7	60	365
SO4-- corr	aerosol	0.08	0.12	0.04	3.40	-0.01	0.00	0.04	0.26	1.06	99.7	60	365
TC	pm10	0.68	0.46	0.56	1.90	0.16	0.20	0.55	1.82	2.26	98.1	0	52
TC	pm25	0.52	0.32	0.45	1.72	0.16	0.19	0.42	1.43	1.58	100.0	0	53

NO0042G Zeppelin mountain (Ny-Ålesund)
January 2015 - December 2015

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	2.41	0.01	0.01	0.03	0.09	0.72	95.1	46	348
Cl-	aerosol	0.39	0.78	0.10	5.95	0.01	0.01	0.12	1.76	7.94	95.6	94	350
HNO3	air	0.02	0.06	0.02	2.02	0.01	0.01	0.01	0.07	0.76	94.5	294	346
HNO3+NO3-	air+aerosol	0.12	0.27	0.06	2.73	0.01	0.02	0.05	0.57	2.84	94.2	0	345
K+	aerosol	0.03	0.03	0.02	2.42	0.01	0.01	0.02	0.09	0.21	95.1	54	348
Mg++	aerosol	0.04	0.06	0.02	3.08	0.01	0.01	0.02	0.16	0.60	95.1	86	348
NH3	air	0.12	0.11	0.08	2.46	0.01	0.03	0.09	0.33	0.75	86.7	89	317
NH3+NH4+	air+aerosol	0.22	0.29	0.13	2.62	0.02	0.03	0.12	0.66	2.94	86.7	0	317
NH4+	aerosol	0.09	0.24	0.03	4.46	0.01	0.01	0.03	0.38	2.85	94.2	111	345
NO3-	aerosol	0.09	0.25	0.03	3.62	0.00	0.01	0.03	0.46	2.81	94.8	50	347
Na+	aerosol	0.26	0.39	0.09	5.22	0.01	0.01	0.12	1.01	3.16	95.1	52	348
SO2	air	0.06	0.21	0.02	2.79	0.01	0.01	0.01	0.23	2.53	95.3	283	349
SO4--	aerosol	0.11	0.13	0.05	4.19	0.01	0.01	0.06	0.43	0.83	95.1	63	348
SO4-- corr	aerosol	0.09	0.12	0.04	4.02	-0.02	0.00	0.04	0.38	0.79	95.1	63	348

NO0056R Hurdal
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.05	0.08	0.03	2.61	0.01	0.01	0.03	0.13	0.84	96.2	39	352
Cl-	aerosol	0.14	0.27	0.05	4.40	0.01	0.01	0.04	0.73	2.03	96.2	128	352
EC	pm10	0.14	0.07	0.13	1.59	0.05	0.06	0.13	0.28	0.43	100.0	0	53
EC	pm25	0.13	0.07	0.12	1.62	0.03	0.05	0.12	0.28	0.42	100.0	0	53
HNO3	air	0.04	0.05	0.02	2.53	0.01	0.01	0.02	0.12	0.50	89.9	158	329
HNO3+NO3-	air+aerosol	0.27	0.39	0.15	2.92	0.01	0.03	0.13	0.90	3.19	89.9	0	329
K+	aerosol	0.05	0.05	0.04	2.24	0.01	0.01	0.04	0.13	0.56	96.2	16	352
Mg++	aerosol	0.02	0.03	0.01	2.61	0.00	0.01	0.02	0.07	0.21	96.2	121	352
NH3	air	0.17	0.13	0.13	2.27	0.02	0.02	0.14	0.43	0.83	92.4	34	338
NH3+NH4+	air+aerosol	0.42	0.46	0.27	2.55	0.02	0.04	0.27	1.29	3.73	92.4	0	338
NH4+	aerosol	0.24	0.42	0.09	4.47	0.01	0.01	0.10	0.95	3.58	92.4	25	338
NO2	air	0.64	0.96	0.37	2.81	0.01	0.09	0.38	2.31	7.60	99.7	5	365
NO3-	aerosol	0.24	0.38	0.11	3.42	0.01	0.02	0.10	0.95	3.09	92.4	4	338
Na+	aerosol	0.16	0.23	0.07	3.89	0.01	0.01	0.08	0.58	1.76	96.0	26	351
OC	pm10	0.99	0.48	0.89	1.67	0.30	0.33	0.96	1.89	2.50	100.0	0	53
OC	pm25	0.73	0.35	0.67	1.55	0.25	0.33	0.66	1.56	1.92	100.0	0	53
PM10 mass	pm10	4.15	1.83	3.81	1.56	1.01	1.58	3.89	8.74	9.51	100.0	0	53
PM10-PM25	pm10_pm25	1.50	0.77	1.28	1.86	0.17	0.29	1.38	3.09	3.66	95.0	0	50
PM25 mass	pm25	2.75	1.37	2.48	1.65	0.71	1.09	2.48	5.96	6.27	98.1	0	52
SO2	air	0.05	0.23	0.02	2.71	0.01	0.01	0.01	0.17	3.82	93.8	260	343
SO4--	aerosol	0.14	0.18	0.07	3.70	0.01	0.01	0.10	0.47	2.04	96.2	35	352
SO4-- corr	aerosol	0.13	0.18	0.07	3.48	-0.09	0.00	0.08	0.46	2.03	96.2	35	352
TC	pm10	1.14	0.51	1.03	1.60	0.37	0.41	1.07	2.21	2.70	100.0	0	53
TC	pm25	0.86	0.40	0.79	1.53	0.32	0.38	0.78	1.85	2.13	100.0	0	53

PL0002R Jarczew
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.76	0.45	0.64	1.81	0.13	0.21	0.66	1.70	2.78	98.6	0	361
HNO3+NO3-	air+aerosol	0.70	0.59	0.53	2.07	0.11	0.19	0.48	2.04	3.15	98.9	0	362
NH3+NH4+	air+aerosol	2.88	2.08	2.38	1.82	0.42	0.96	2.25	6.65	16.36	99.2	0	363
NH4+	aerosol	1.04	0.87	0.78	2.19	0.08	0.19	0.77	3.37	4.25	98.6	0	361
NO2	air	2.17	1.04	1.96	1.57	0.70	1.00	1.90	4.10	6.60	97.8	0	358
NO3-	aerosol	0.52	0.49	0.38	2.24	0.04	0.11	0.35	1.79	2.43	98.6	0	361
SO2	air	1.19	0.88	0.89	2.24	0.10	0.20	1.00	3.00	5.20	98.6	4	361
SO4--	aerosol	1.15	0.66	0.97	1.88	0.10	0.31	1.03	2.38	4.24	98.6	5	361
SO4-- corr	aerosol	1.14	0.66	0.96	1.89	0.10	0.31	1.02	2.38	4.24	98.6	5	361

PL0003R Sniezka
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.47	0.26	0.39	1.98	0.05	0.09	0.41	0.89	1.47	100.0	18	366
HNO3+NO3-	air+aerosol	0.53	0.24	0.47	1.63	0.09	0.19	0.50	1.00	1.43	100.0	0	366
NH3+NH4+	air+aerosol	0.77	0.38	0.67	1.77	0.08	0.20	0.71	1.40	2.23	100.0	0	366
NH4+	aerosol	0.55	0.28	0.47	1.92	0.03	0.12	0.54	1.03	1.65	100.0	3	366
NO2	air	1.09	0.45	1.00	1.52	0.30	0.50	1.00	1.90	2.60	100.0	0	366
NO3-	aerosol	0.40	0.18	0.36	1.64	0.05	0.15	0.39	0.74	1.00	100.0	0	366
SO2	air	1.10	0.46	1.00	1.53	0.40	0.50	1.00	2.00	2.60	100.0	0	366
SO4--	aerosol	0.84	0.41	0.71	1.86	0.10	0.21	0.81	1.57	2.25	100.0	11	366
SO4-- corr	aerosol	0.83	0.41	0.71	1.87	0.10	0.20	0.81	1.57	2.25	100.0	11	366

PL0004R Leba
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	1.03	0.64	0.86	1.88	0.05	0.30	0.90	2.42	4.23	98.9	1	362
HNO3+NO3-	air+aerosol	0.53	0.53	0.37	2.32	0.01	0.09	0.35	1.73	3.35	99.5	1	364
NH3+NH4+	air+aerosol	1.43	0.95	1.19	1.82	0.25	0.45	1.17	3.37	6.41	99.5	0	364
NH4+	aerosol	0.76	0.72	0.55	2.24	0.03	0.16	0.52	2.41	4.29	98.9	2	362
NO2	air	1.41	0.94	1.17	1.86	0.20	0.40	1.20	3.40	7.50	99.7	0	365
NO3-	aerosol	0.45	0.51	0.28	2.72	0.01	0.05	0.28	1.62	3.32	98.9	3	362
SO2	air	0.66	0.45	0.52	2.04	0.10	0.20	0.50	1.40	3.20	98.9	13	362
SO4--	aerosol	0.93	0.54	0.78	1.91	0.10	0.22	0.85	1.82	4.72	98.9	9	362
SO4-- corr	aerosol	0.92	0.54	0.77	1.91	-0.04	0.22	0.85	1.80	4.72	98.9	9	362

PL0005R Diabla Gora
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.08	0.04	0.07	1.54	0.03	0.04	0.07	0.16	0.30	80.8	0	50
Cl-	pm25	0.06	0.07	0.02	4.32	0.00	0.00	0.02	0.24	0.30	80.8	0	50
EC	pm25	0.48	0.37	0.37	2.13	0.06	0.10	0.39	1.24	2.51	94.0	0	343
HNO3	air	2.02	1.31	1.68	1.86	0.15	0.61	1.68	4.37	9.27	96.2	0	352
HNO3+NO3-	air+aerosol	0.67	0.66	0.47	2.32	0.05	0.13	0.41	2.06	5.19	98.6	0	361
K+	pm25	0.11	0.18	0.07	2.26	0.02	0.02	0.07	0.22	1.32	80.8	0	50
Mg++	pm25	0.02	0.01	0.01	1.53	0.01	0.01	0.02	0.03	0.04	80.8	0	50
NH3	air	1.27	0.89	1.03	1.92	0.10	0.38	1.03	3.18	6.31	97.0	0	355
NH3+NH4+	air+aerosol	0.45	0.55	0.26	2.87	0.01	0.05	0.22	1.55	4.90	98.9	0	362
NH4+	aerosol	0.73	0.85	0.37	3.67	0.00	0.03	0.37	2.62	6.37	97.5	0	357
NH4+	pm25	1.02	0.92	0.71	2.31	0.16	0.24	0.58	3.17	3.49	80.8	0	50
NO2	air	1.17	0.79	0.95	1.92	0.12	0.35	0.92	2.87	4.64	90.1	0	329
NO3-	aerosol	0.22	0.20	0.17	2.12	0.01	0.06	0.15	0.65	1.37	98.9	0	362
NO3-	pm25	1.67	1.98	0.79	3.70	0.10	0.13	0.82	6.47	8.10	80.8	0	50
Na+	pm25	0.15	0.09	0.12	2.04	0.03	0.04	0.14	0.32	0.44	80.8	0	50
OC	pm25	3.50	2.90	2.75	1.96	0.61	0.95	2.50	9.30	25.53	94.0	0	343
PM10 mass	pm10	17.32	12.38	14.15	1.86	3.29	5.68	13.41	42.83	95.78	96.4	0	352
PM25 mass	pm25	12.49	10.42	9.49	2.07	1.82	3.31	8.62	34.05	72.42	95.9	0	350
SO2	air	0.27	0.28	0.18	2.35	0.03	0.06	0.16	0.97	1.48	97.0	0	355
SO4--	aerosol	0.53	0.48	0.38	2.34	0.01	0.10	0.35	1.58	2.78	98.4	0	360
SO4--	pm25	1.65	1.01	1.43	1.67	0.63	0.73	1.28	4.24	4.69	80.8	0	50
SO4-- corr	pm25	1.64	1.01	1.42	1.67	0.63	0.73	1.27	4.22	4.68	80.8	0	50

PL0009R Zielonka
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	17.52	11.87	14.37	1.88	2.80	5.41	14.11	43.93	64.36	98.1	0	358

RS0005R Kamenicki vis
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.56	0.34	0.48	1.71	0.30	0.30	0.30	1.19	2.28	84.1	165	307
PM10 mass	pm10	17.87	8.76	15.28	1.87	1.83	4.21	17.57	33.22	45.39	78.6	0	287
SO2	air	6.39	4.45	4.49	2.63	0.75	0.75	6.15	14.62	22.60	96.7	59	353

RU0018R Danki
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.40	0.25	0.32	2.20	0.01	0.10	0.34	0.93	1.43	100.0	0	366
NO3-	aerosol	0.29	0.33	0.19	2.46	0.01	0.05	0.19	0.92	2.37	100.0	0	366
SO2	air	0.22	0.27	0.12	3.13	0.01	0.12	0.76	2.91	99.9	0	365	
SO4--	aerosol	0.47	0.42	0.35	2.20	0.01	0.12	0.35	1.33	3.64	100.0	0	366

RU0020R Lesnoy
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.17	0.15	0.15	1.64	0.06	0.08	0.15	0.36	1.09	97.0	0	51
NO3-	aerosol	0.15	0.11	0.12	2.01	0.02	0.03	0.11	0.43	0.53	97.0	0	51
SO2	air	0.11	0.14	0.06	3.07	0.01	0.01	0.06	0.39	0.70	97.0	0	51
SO4--	aerosol	0.40	0.32	0.33	1.86	0.03	0.17	0.31	1.09	2.12	97.0	0	51

SE005R Bredkålen
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.02	0.07	0.01	2.54	0.01	0.01	0.01	0.06	0.97	99.5	304	364
Cl-	aerosol	0.19	0.37	0.04	6.64	0.01	0.01	0.05	0.79	3.51	99.5	137	364
HNO3+NO3-	air+aerosol	0.03	0.04	0.02	2.50	0.01	0.01	0.02	0.10	0.39	99.7	49	365
K+	aerosol	0.01	0.02	0.01	2.34	0.01	0.01	0.01	0.05	0.13	99.7	292	365
Mg++	aerosol	0.02	0.03	0.01	2.64	0.01	0.01	0.01	0.06	0.24	99.5	220	364
NH3+NH4+	air+aerosol	0.10	0.11	0.07	2.43	0.02	0.02	0.07	0.29	0.85	99.5	0	364
NO2	air	0.09	0.09	0.07	1.85	0.04	0.05	0.05	0.28	0.69	99.5	275	364
Na+	aerosol	0.15	0.22	0.06	4.63	0.01	0.01	0.07	0.51	2.03	99.7	79	365
PM10 mass	pm10	3.46	2.53	2.80	1.90	0.40	0.90	2.80	8.18	18.90	95.9	0	351
PM25 mass	pm25	2.26	1.65	1.84	1.88	0.30	0.60	1.80	5.50	13.90	93.1	0	340
SO2	air	0.06	0.09	0.03	3.19	0.01	0.01	0.03	0.18	0.94	99.7	69	365
SO4--	aerosol	0.08	0.09	0.04	3.34	0.01	0.01	0.04	0.27	0.68	99.7	50	365
SO4-- corr	aerosol	0.07	0.09	0.04	3.25	0.00	0.00	0.03	0.27	0.67	99.7	50	365
SPM	aerosol	0.54	0.33	0.48	1.52	0.38	0.38	0.38	0.75	2.80	99.0	342	362

SE0011R Vavihill
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.10	0.13	0.05	3.29	0.01	0.01	0.07	0.28	1.05	95.3	56	349
Cl-	aerosol	0.70	1.05	0.17	7.74	0.01	0.01	0.24	3.43	4.97	95.6	54	350
EC	pm10	0.23	0.24	0.18	1.99	0.00	0.04	0.17	0.74	1.63	98.6	0	120
HNO3+NO3-	air+aerosol	0.46	0.48	0.32	2.45	0.01	0.08	0.33	1.56	3.84	95.3	3	348
K+	aerosol	0.10	0.12	0.07	2.32	0.01	0.01	0.08	0.23	1.48	95.6	19	350
Mg++	aerosol	0.09	0.08	0.06	3.08	0.01	0.01	0.07	0.27	0.35	95.3	41	349
NH3+NH4+	air+aerosol	0.76	0.75	0.51	2.52	0.02	0.11	0.54	2.40	5.62	95.6	0	350
NO2	air	1.07	0.81	0.87	1.86	0.05	0.37	0.77	2.80	5.72	99.2	1	363
Na+	aerosol	0.71	0.67	0.42	3.25	0.01	0.06	0.48	2.24	3.04	95.6	5	350
OC	pm10	1.29	1.06	1.02	1.98	0.10	0.36	1.01	3.10	6.90	98.6	0	120
PM10 mass	pm10	10.91	10.25	7.73	2.60	-3.00	0.80	8.30	30.80	160.40	52.4	0	4588
PM25 mass	pm25	5.38	6.48	3.57	2.36	0.30	1.02	3.45	21.70	40.70	33.9	0	124
SO2	air	0.15	0.21	0.10	2.47	0.01	0.02	0.10	0.45	2.51	95.9	6	351
SO4--	aerosol	0.33	0.31	0.24	2.40	0.01	0.05	0.26	0.96	2.16	95.6	3	350
SO4-- corr	aerosol	0.27	0.32	0.16	2.92	0.01	0.02	0.17	0.94	2.08	95.6	3	350
SPM	aerosol	0.88	1.29	0.58	2.11	0.38	0.38	0.38	3.22	15.22	96.7	299	354
TC	pm10	1.51	1.27	1.19	2.01	0.10	0.42	1.21	3.83	8.54	98.6	0	120

SE0012R Aspvreten
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.07	0.13	0.03	4.15	0.01	0.01	0.04	0.26	1.14	97.8	132	358
Cl-	aerosol	0.34	0.53	0.09	7.25	0.01	0.01	0.12	1.35	3.70	98.9	89	362
HNO3+NO3-	air+aerosol	0.22	0.20	0.16	2.34	0.01	0.04	0.17	0.62	1.57	98.9	1	362
K+	aerosol	0.05	0.13	0.02	3.59	0.01	0.01	0.04	0.14	1.92	97.0	144	355
Mg++	aerosol	0.06	0.05	0.03	3.24	0.01	0.01	0.04	0.15	0.28	98.6	80	361
NH3+NH4+	air+aerosol	0.30	0.32	0.21	2.36	0.03	0.05	0.22	0.84	2.71	98.6	0	361
NO2	air	0.37	0.31	0.26	2.55	0.05	0.05	0.30	0.99	2.58	95.1	68	348
Na+	aerosol	0.42	0.40	0.25	3.18	0.01	0.04	0.28	1.16	2.37	98.9	13	362
PM10 mass	pm10	7.95	5.62	6.51	2.00	-3.30	1.70	6.70	18.50	52.10	75.7	0	6628
PM25 mass	pm25	5.69	4.52	4.42	2.06	0.40	1.29	4.70	13.45	34.30	86.6	0	317
SO2	air	0.13	0.13	0.09	2.50	0.01	0.02	0.09	0.34	1.13	98.9	6	362
SO4--	aerosol	0.23	0.21	0.16	2.56	0.01	0.03	0.18	0.56	1.72	98.9	3	362
SO4-- corr	aerosol	0.19	0.21	0.12	2.89	0.01	0.02	0.14	0.53	1.71	98.9	3	362

SE0014R Råö
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.14	0.13	0.09	3.19	0.01	0.01	0.11	0.36	0.91	98.9	37	362
Cl-	aerosol	3.42	3.83	1.04	8.90	0.01	0.01	2.26	10.48	27.46	98.9	28	362
HNO3+NO3-	air+aerosol	0.44	0.43	0.31	2.34	0.03	0.07	0.31	1.38	2.84	98.9	0	362
K+	aerosol	0.12	0.09	0.08	2.80	0.01	0.01	0.10	0.30	0.55	98.9	30	362
Mg++	aerosol	0.28	0.25	0.15	3.72	0.01	0.01	0.21	0.73	1.76	98.9	20	362
NH3+NH4+	air+aerosol	0.55	0.55	0.39	2.26	0.03	0.10	0.38	1.58	4.14	98.4	0	360
NO2	air	0.94	0.63	0.76	1.98	0.05	0.28	0.77	2.16	3.73	99.2	5	363
Na+	aerosol	2.29	2.19	1.11	4.81	0.01	0.05	1.77	6.17	15.37	98.9	11	362
PM10 mass	pm10	15.15	8.06	13.06	1.76	2.40	4.53	13.70	31.30	51.00	98.9	0	362
PM25 mass	pm25	5.02	2.96	4.31	1.74	0.90	1.80	4.25	10.88	19.70	91.2	0	334
SO2	air	0.19	0.21	0.14	2.04	0.02	0.04	0.14	0.48	1.98	99.2	0	363
SO4--	aerosol	0.39	0.30	0.29	2.41	0.01	0.05	0.34	0.84	2.26	98.9	3	362
SO4-- corr	aerosol	0.20	0.27	0.12	3.14	-0.02	0.01	0.13	0.66	2.17	98.9	3	362

SI0008R Iskrba
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.15	0.16	0.09	2.65	0.00	0.02	0.09	0.40	1.55	90.7	26	332
Ca++	pm25	0.03	0.03	0.02	1.94	0.01	0.01	0.01	0.08	0.27	49.7	150	182
Cl-	aerosol	0.07	0.08	0.05	1.94	0.00	0.02	0.05	0.23	0.73	90.7	23	332
Cl-	pm25	0.05	0.06	0.04	2.37	0.01	0.01	0.05	0.08	0.84	49.7	38	182
EC	pm25	0.29	0.22	0.21	2.64	0.01	0.01	0.22	0.74	1.11	49.7	11	182
HNO3	air	0.08	0.06	0.06	2.23	0.01	0.02	0.07	0.18	0.45	90.7	0	332
HNO3+NO3-	air+aerosol	0.22	0.17	0.17	2.23	0.02	0.04	0.18	0.62	0.91	90.7	0	332
K+	aerosol	0.14	0.08	0.12	1.83	0.00	0.04	0.12	0.30	0.56	90.7	2	332
K+	pm25	0.13	0.08	0.11	1.96	0.00	0.04	0.11	0.29	0.41	49.7	1	182
Mg++	aerosol	0.04	0.04	0.03	2.14	0.00	0.00	0.03	0.11	0.27	90.7	28	332
Mg++	pm25	0.01	0.01	0.00	4.61	0.00	0.00	0.00	0.03	0.05	49.7	102	182
NH3	air	0.22	0.19	0.15	2.60	0.00	0.03	0.16	0.61	1.08	90.7	1	332
NH3+NH4+	air+aerosol	0.74	0.53	0.58	2.14	0.05	0.14	0.63	1.67	3.23	90.7	1	332
NH4+	aerosol	0.53	0.45	0.37	2.53	0.00	0.05	0.41	1.31	3.03	90.7	1	332
NH4+	pm25	0.64	0.51	0.48	2.22	0.04	0.11	0.48	1.58	3.34	49.7	0	182
NO2	air	0.49	0.48	0.32	2.68	-0.10	0.06	0.44	1.31	6.44	91.8	7216	8039
NO3-	aerosol	0.15	0.14	0.09	2.75	0.01	0.02	0.10	0.46	0.86	90.7	0	332
NO3-	pm25	0.08	0.12	0.03	4.62	0.00	0.00	0.03	0.30	0.72	49.7	50	182
Na+	aerosol	0.10	0.13	0.06	2.90	0.00	0.00	0.05	0.36	0.76	90.7	70	332
Na+	pm25	0.04	0.04	0.03	2.83	0.00	0.00	0.03	0.12	0.26	49.7	19	182
OC	pm25	3.23	1.30	3.01	1.47	1.22	1.71	2.93	6.05	7.64	49.7	0	182
PM10 mass	pm10	12.51	6.40	10.96	1.71	1.50	4.09	11.30	24.45	37.70	97.7	0	357
PM25 mass	pm25	10.02	5.45	8.70	1.73	1.50	3.13	8.80	19.64	37.60	99.9	0	365
SO2	air	0.23	0.47	0.11	3.43	0.00	0.00	0.07	1.18	4.98	90.7	41	332
SO4--	aerosol	0.63	0.53	0.45	2.40	0.04	0.10	0.49	1.57	3.52	90.7	0	332
SO4--	pm25	0.69	0.55	0.52	2.20	0.04	0.13	0.52	1.81	3.90	49.7	0	182
SO4-- corr	aerosol	0.62	0.53	0.44	2.41	0.04	0.09	0.48	1.56	3.52	90.7	0	332
SO4-- corr	pm25	0.68	0.55	0.51	2.21	0.04	0.13	0.51	1.81	3.90	49.6	0	181

SI0032R Krvavec
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	143.14	28.73	140.59	1.20	86.21	107.76	137.93	202.59	318.97	93.6	0	8195

SK0002R Chopok
January 2015 - December 2015

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.12	0.08	0.09	2.39	0.00	0.02	0.11	0.25	0.69	68.8	0	251
HNO3	air	0.05	0.05	0.04	2.43	0.00	0.01	0.04	0.15	0.29	70.4	0	257
NO2	air	0.92	0.59	0.73	2.21	0.01	0.21	0.86	2.00	4.00	88.4	0	323
NO3-	aerosol	0.21	0.23	0.12	3.29	0.01	0.02	0.15	0.55	1.73	70.1	0	256
SO2	air	0.46	0.45	0.32	2.48	0.01	0.08	0.30	1.60	2.62	70.5	0	258
SO4--	aerosol	0.33	0.39	0.18	3.52	0.01	0.02	0.23	1.00	3.97	70.1	0	256

SK0006R Starina
January 2015 - December 2015

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	0.03	2.26	0.00	0.01	0.03	0.09	0.37	67.5	0	247
Cl-	aerosol	0.18	0.20	0.15	1.97	0.01	0.05	0.16	0.32	3.00	77.1	0	282
HNO3	air	0.06	0.05	0.05	1.96	0.01	0.01	0.05	0.15	0.57	76.0	0	278
K+	aerosol	0.09	0.09	0.06	2.50	0.00	0.01	0.07	0.23	0.55	68.0	0	249
Mg++	aerosol	0.01	0.01	0.01	2.14	0.00	0.00	0.01	0.02	0.04	67.8	0	248
NH3	air	0.63	0.48	0.44	2.81	0.00	0.05	0.54	1.55	3.30	68.0	0	249
NH4+	aerosol	0.65	0.46	0.54	1.82	0.10	0.21	0.55	1.46	3.36	68.0	0	249
NO2	air	1.16	0.56	1.05	1.56	0.24	0.52	1.04	2.27	4.60	77.6	0	284
NO3-	aerosol	0.31	0.30	0.23	2.12	0.01	0.07	0.23	0.67	2.82	75.7	0	277
Na+	aerosol	0.07	0.05	0.05	2.69	0.00	0.01	0.06	0.16	0.42	67.5	0	247
SO2	air	0.75	1.11	0.43	2.72	0.03	0.09	0.43	2.44	11.60	76.3	0	279
SO4--	aerosol	0.70	0.50	0.52	2.40	0.00	0.10	0.58	1.63	3.21	75.7	0	277
SO4-- corr	aerosol	0.69	0.50	0.52	2.39	-0.00	0.09	0.57	1.63	3.21	75.6	0	276

Annex 4

Overview of sampling and analytical methods 2015

Country: Armenia		Main components- EMEP		Year: 2015	
	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	NaI-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: 2015	
	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: 2015	
	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: 2015	
	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: 2015	
	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: 2015
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount	CY2	WET ONLY EIGENBRODT SAMPLER	DAILY EVENT	SAMPLE VOLUME MEASUREMENT
Precipitation amount, official gauge	CY2	MET ONE TIPPING BUCKET-RECORDED	DAILY EVENT	Mm RECORDED IN DATA LOGGER
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				
Carbon Monoxide	CY02	Non – Dispersive Infrared Spectroscopy (NDIR)	Hourly	NDIR
Ozone	CY02	Instrumental: Ultra Violet (UV) photometry	Hourly	UV absorption
Sulphate PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Nitrate PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Ammonium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Sodium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Calcium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Magnesium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Potassium PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
Chloride PM _{2.5}	CY02	Low volume sampler	Daily	Ion Chromatography
PM ₁₀	CY02	High volume sampler	Daily	Gravimetric
PM _{2.5}	CY02	Low volume sampler	Daily	Gravimetric
PM ₁				
EC in PM _{2.5}	CY02	Low volume sampler	Daily	Sunset Laboratory OC/EC Analyzer
OC in MP _{2.5}	CY02	Low volume sampler	Daily	

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

Facility for Chemical Analyses (FCA)

Energy, Environment and Water Research Center (EEWRC)

The Cyprus Institute

Country: Czech Republic		Main components and ozone - EMEP	Year: 2015-2016	
	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	Gravimetry
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	Gravimetry
OC, EC in PM _{2.5}	CZ3	Filter 47 mm, 55 m ³ /day	Every 6 th day	HD-FID (Thermal-optical method)

Country: Denmark		Main components and ozone - EMEP		Year: 2015	
	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: 2015	
	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: 2015	
	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	
Sulphur dioxide	F118	UV-fluorescence - monitor	Hourly	UV-fluorescence	
Nitrogen dioxide	All	Instrumental: Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid	All	NaOH-impregnated Whatman 40 filters, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Ammonia	All	Oxalic acid-impregnated Whatman 40 filters, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
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	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
Ammonium	All	Teflon filter, Millipore Fluoropore 3 µm, 24 m ³ /day	Daily/Weekly ¹⁾	Ion chromatography	
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	All	Instrumental: beta-ray attenuation	Hourly	Beta-ray attenuation monitor	
PM _{2.5}	All	Instrumental: beta-ray attenuation	Hourly	Beta-ray attenuation monitor	
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: F109 and F117 and F136; Weekly: F122 and F137

Country: France		Main components and ozone - EMEP		Year: 2015	
	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	Tipping bucket rain gauge	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					
Nitrogen dioxide NO ₂ /NO/NO _x	FR09, FR13, FR15, FR30	Instrumental: Chemiluminescence, trace level	Hourly	Chemiluminescence	
Ozone	FR08, FR09, FR10, FR13, FR14, FR15, FR16, FR17, FR18, FR19, FR30, FR23, FR25	UV-monitor	Hourly	UV-absorption	
Sulphate	FR09 FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Nitrate	FR09 FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Ammonium	FR09 FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Sodium	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Calcium	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Magnesium	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Potassium	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
Chloride	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h Every 6 days	Ion chromatography	
PM ₁₀	FR09, FR10, FR13, FR14, FR15, FR18, FR23, FR24	TEOM FDMS, MP101M	Hourly	TEOM FDMS	

Country: France		Main components and ozone - EMEP		Year: 2015	
	Station	Sampling	Sampling frequency	Analysis method	
PM _{2.5}	FR09, FR13, FR15, FR18, FR23, FR24, FR25	TEOM FDMS, MP101M	Hourly	TEOM FDMS	
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
EC/OC	FR09, FR13, FR23, FR24, FR25	TISSUQUARTZ 2500QAT-UP, PM2.5, 720m3/day	24h every 6 days	Thermo optical, EUSAAR 2 protocol	

Country: Georgia		Main components and ozone - EMEP		Year: 2015
	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: 2015	
	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: 2015	
	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: 2015	
	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: 2015	
	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: 2015	
	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: Italy: IT01 (lab.: CNR)		Main components and ozone - EMEP		Year: 2015	
	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: 2015	
	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: 2015	
	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: 2015	
	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-AES	
Sodium	LV10	Wet-only	Daily	ICP-AES	
Chloride	LV10	Wet-only	Daily	Ion chromatography	
Calcium	LV10	Wet-only	Daily	ICP-AES	
Potassium	LV10	Wet-only	Daily	ICP-AES	
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	Nal-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	
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: 2015	
	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: 2015	
	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: 2015	
	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: 2015
	Station	Sampling	Sampling frequency	Analysis method
Precipitation				
Precipitation amount	ME08	Wet-only	daily	
Precipitation amount, official gauge	ME08	Meteorological station	daily	
Sulphate	ME08	Wet-only	daily	Spectrophotometry
Nitrate	ME08	Wet-only	daily	Spectrophotometry
Ammonium	ME08	Wet-only	daily	Spectrophotometry
Magnesium	ME08	Wet-only	daily	By calculation
Sodium	ME08	Wet-only	daily	Flame photometry
Chloride	ME08	Wet-only	daily	Titrimetric method
Calcium	ME08	Wet-only	daily	Titrimetric method
Potassium	ME08	Wet-only	daily	Flame photometry
Conductivity	ME08	Wet-only	daily	Conductivity meter
pH	ME08	Wet-only	daily	pH meter, glass electrode
Acidity	ME08	Wet-only	daily	Titrimetric method
Air				
Sulphur dioxide	ME08	Absorbing solution	Daily	Spectrophotometry
Nitrogen dioxide	ME08	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: 2015	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	NL091	Wet-only	Daily/4-weekly		
Precipitation amount, official gauge					
Sulphate	NL091	Wet-only	Daily/4-weekly	Ion chromatography	
Nitrate	NL091	Wet-only	Daily/4-weekly	Ion chromatography	
Ammonium	NL091	Wet-only	Daily/4-weekly	CFA	
Magnesium	NL091	Wet-only	Daily/4-weekly	HR-ICP/MS	
Sodium	NL091	Wet-only	Daily/4-weekly	HR-ICP/MS	
Chloride	NL091	Wet-only	Daily/4-weekly	Ion chromatography	
Calcium	NL091	Wet-only	Daily/4-weekly	HR-ICP/MS	
Potassium	NL091	Wet-only	Daily/4-weekly	HR-ICP/MS	
Conductivity	NL091	Wet-only	Daily/4-weekly	Conductivity meter	
pH	NL091	Wet-only	Daily/4-weekly	pH meter	
Acidity	NL091	Wet-only	Daily/4-weekly	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	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	
Chloride	NL10,NL91	Whatman QMA filter 47 mm, 55.2 m ³ /day	Daily	Ion chromatography	
Sodium	NL08, NL644R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 55.2 m ³ /day	NL08L(Every other day), NL644R(every 4 day)	HR-ICP/MS	
Calcium	NL08, NL644R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 55.2 m ³ /day	NL08L(Every other day), NL644R(every 4th day)	HR-ICP/MS	
Magnesium	NL08, NL644R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 55.2 m ³ /day	NL08L(Every other day), NL644R(every 4th day)	HR-ICP/MS	
Potassium	NL091				
PM ₁₀	NL07,NL09,NL10,NL91,NL644R	Instrumental: beta absorption	Hourly	Beta absorption	
PM _{2.5}	NL09,NL10,,NL91.NL644R	Instrumental: beta absorption	Hourly	Beta absorption	
Suspended particulate matter					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Norway		Main components and ozone - EMEP	Year: 2015	
	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-NRI)		Main components and ozone - EMEP		Year: 2015	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	Bulk	Daily	By_weight	
Precipitation amount, official gauge	All	Total	Daily	PL02,PL03 Hellman, standard gauge PL04 SEBA_Hydrometrie, automatic 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	Spectrophotometric,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	Spectrophotometric,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: 2015	
	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 Millipore Fluoropore 3 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 Millipore Fluoropore 3 µm+ KOH impregnated Whatman 40 filter, 16 m ³ /day	Daily	Capillary Electrophoresis	
Sum of ammonia and ammonium	PL05	Aerosol Teflon filter Millipore Fluoropore 3 µm + Oxalic acid impregnated Whatman 40 filter, 16 m ³ /day	Daily	Spectrophotometric, Indophenol method	

Country: Romania		Main components and ozone - EMEP		Year: 2015	
	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: 2015	
	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: 2015	
	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: 2015	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	SK02,SK04, SK06, SK07	Bulk: SK02: Wet-only: SK04, SK06, SK07	Daily SK02, SK06 Weekly SK04, SK 07		
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, SK06 Weekly: SK04, SK07	Ion chromatography – Dionex	
Nitrate	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04, SK07	Ion chromatography – Dionex	
Ammonium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04, SK07	Ion chromatography – Dionex	
Magnesium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK4,SK07	Ion chromatography – Dionex	
Sodium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04, SK07	Ion chromatography – Dionex	
Chloride	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04,SK07	Ion chromatography – Dionex	
Calcium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly SK04,SK07	Ion chromatography – Dionex	
Potassium	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04, SK07	Ion chromatography - Dionex	
Conductivity	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04,SK07	Conductivity meter	
pH	SK02,SK04, SK06, SK07	Bulk: SK02 Wet-only: SK04, SK06, SK07	Daily: SK02, SK06 Weekly: SK04,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, 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: 2015	
	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	Continuous measurements: Teledyne API Model T500U CAPS Analyser	Hourly	Cavity-Attenuated Phase-Shift spectroscopy	
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	
PM10	SI08	Low volume sampler, 2.3 m ³ /h, Quartz filter, 47 mm	Daily	Gravimetric method	
PM2.5	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: 2015	
	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	
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	ES01, ES07, ES08, ES09, ES14	Passive sampler	Weekly ES07 (Biweekly)	Visible spectrophotometry, Indophenol method	
PM ₁₀	All	High volume sampler	Daily	Gravimetric method	
PM _{2.5}	ES01, ES06,, 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, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Visible spectrophotometry, Indophenol method	
Sodium PM ₁₀	ES09, ES01, ES07, ES08, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Calcium PM ₁₀	ES09, ES01, ES07, ES08, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Magnesium PM ₁₀	ES09, ES01, ES07, ES08, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Potassium PM ₁₀	ES09, ES01, ES07, ES08, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Chloride PM ₁₀	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Ion chromatography	
Sulphate PM _{2.5}	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Ion chromatography	

Country: Spain		Main components and ozone - EMEP	Year: 2015	
	Station	Sampling	Sampling frequency	Analysis method
Nitrate PM _{2.5}	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Ion chromatography
Sodium PM _{2.5}	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy
Calcium PM _{2.5}	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy
Magnesium PM _{2.5}	ES09, ES01, ES07, ES08, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy

Country: Sweden		Main components and ozone - EMEP		Year: 2015	
	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: 2015	
	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	
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: 2015	
	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

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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

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

and between

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

if the data come from a lognormal distribution.

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 \bar{c}_a is the arithmetic mean value used for air components only, and N is number of days with data:

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

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

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

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

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

$$\bar{c}_g = \exp(\overline{\ln c})$$

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.