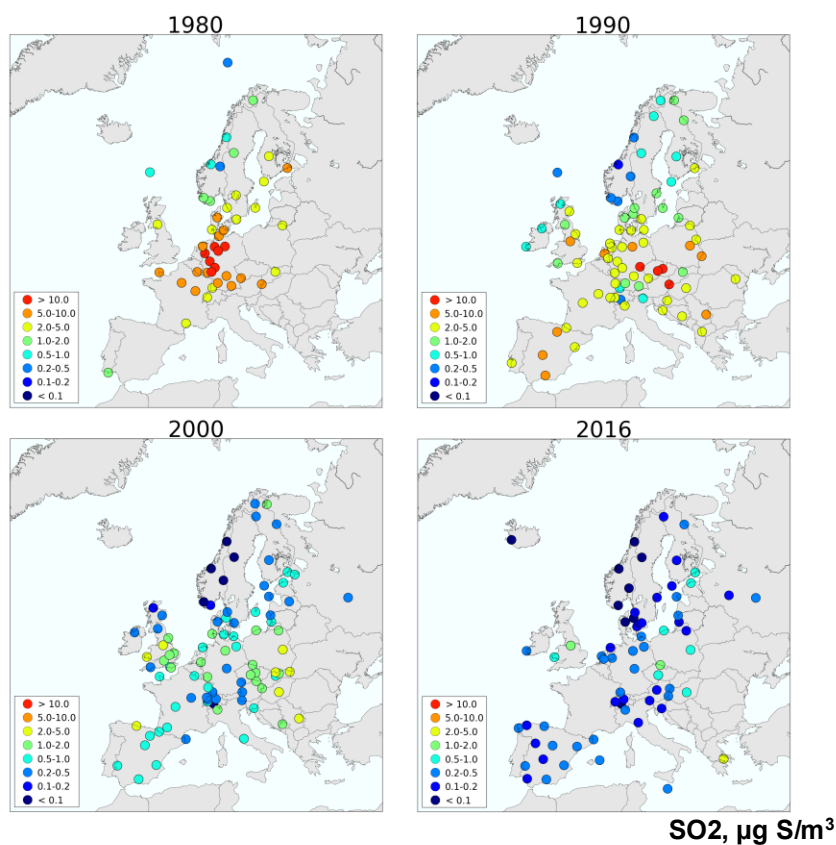


Data Report 2016

Particulate matter, carbonaceous and inorganic compounds

Anne-Gunn Hjellbrekke



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

**Data Report 2016
Particulate matter, carbonaceous and
inorganic compounds**

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Data Report 2016

Particulate matter, carbonaceous and inorganic compounds

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 2016 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 <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 87 stations and air data from 124 stations are presented in this report. The total number of measurement sites in this report is 135.

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 2016.

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	
	AT0034G	Sonnblick	47°03'15"N	012°57'29"E	3106	
	AT0048R	Zoebelboden	47°50'19"N	014°26'29"E	899	
	BY0004R	Vysokoe	52°20'00"N	023°26'00"E	163	
Belarus	BE0001R	Offagne	49°52'40"N	005°12'13"E	430	
	BE0011R	Moerkerke	51°01'00"N	002°35'00"E	0	
	BE0013R	Houtem	51°15'00"N	003°21'00"E	10	
	BE0014R	Koksijde	51°07'17"N	002°39'26"E	4	
	BE0032R	Eupen	50°37'46"N	006°00'04"E	295	
	BE0035R	Veizin	50°30'12"N	004°59'22"E	160	
Belgium	HR0002R	Puntijarka	45°54'00"N	015°58'00"E	988	
	HR0004R	Zavizan	44°49'00"N	014°59'00"E	1594	
Croatia	CY0002R	Agia Marina Xyliatou	35°02'21"N	033°03'29"E	532	
Cyprus	CZ0001R	Svratouch	49°44'00"N	016°03'00"E	737	
Czech Rep.	CZ0003R	Košetice (NOAK)	49°35'00"N	015°05'00"E	534	
	CZ0005R	Churanov	49°04'00"N	013°36'00"E	1118	
	DK0003R	Tange	56°21'00"N	009°36'00"E	13	
Denmark	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	
	EE0009R	Lahemaa	59°30'00"N	025°54'00"E	32	
Estonia	EE0011R	Vilsandi	58°23'00"N	021°49'00"E	6	
	FI0004R	Ähtäri	62°32'00"N	024°13'18"E	162	
Finland	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	
	FI0050R	Hyytiälä	61°51'00"N	024°17'00"E	181	
	FI0096G	Pallas (Sammaltunturi)	67°58'24"N	024°06'58"E	565	
	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	1650
	Germany	DE0001R	Westerland	54°55'32"N	008°18'35"E	12
DE0002R		Waldhof	52°48'08"N	010°45'34"E	74	
DE0003R		Schauinsland	47°54'53"N	007°54'31"E	1205	
DE0007R		Neuglobsow	53°10'00"N	013°02'00"E	62	
DE0008R		Schmücke	50°39'00"N	010°46'00"E	937	
DE0009R		Zingst	54°26'00"N	012°44'00"E	1	
DE0044R		Melpitz	51°31'48"N	012°55'48"E	86	
Greece		GR0001R	Aliartos	38°22'00"N	023°05'00"E	110
Hungary	HU0002R	K-pusztá	46°58'00"N	019°35'00"E	125	
	HU0003R	Farkasfa	46°54'36"N	016°19'12"E	312	
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	IT0004R	Ispra	45°48'00"N	008°38'00"E	209	
	IT0009R	Mt Cimone	44°11'00"N	010°42'00"E	2165	

Table 1, cont.

Country	Station codes	Station name	Location		Height above sea (m)
			Lat	Long.	
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
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	Kârvatn	62°47'00"N	008°53'00"E	210
	NO0042G	Zeppelin mountain (Ny-Ålesund)	78°54'24"N	011°53'18"E	474
	NO0056R	Hurdal	60°22'21"N	011°04'41"E	300
Poland	PL0002R	Jarczew	51°49'00"N	021°59'00"E	180
	PL0003R	Sniezka	50°44'00"N	015°44'00"E	1603
	PL0004R	Leba	54°45'00"N	017°32'00"E	2
	PL0005R	Diabla Gora	54°09'00"N	022°04'00"E	157
	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	Topolniky	47°57'36"N	017°51'38"E	113
Slovenia	SI0008R	Iskrba	45°34'00"N	014°52'00"E	520
	SI0032R	Krvavec	46°17'58"N	014°32'19"E	1740
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	Dofiana	37°01'50"N	006°19'55"W	5
	ES1778R	Montseny	41°46'00"N	002°21'00"E	700
	Sweden	SE0005R	Bredkålen	63°51'00"N	015°20'00"E
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
SE0020R		Hallahus	56°02'34"N	013°08'53"E	190
Switzerland	CH0001G	Jungfrau joch	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

Table 1, cont.

Country	Station codes	Station name	Location		Height above sea (m)
			Lat	Long.	
United Kingdom (cont.)	GB0033R	Bush	55°51'31"N	003°12'18"W	180
	GB0037R	Ladybower Res.	53°23'56"N	001°45'12"W	420
	GB0038R	Lullington Heath	50°47'34"N	000°10'46"E	120
	GB0043R	Narberth	51°14'00"N	004°42'00"W	160
	GB0045R	Wicken Fen	52°17'54"N	000°17'34"W	5
	GB0048R	Auchencorth Moss	55°47'32"N	003°14'34"W	260
	GB0050R	St. Osyth	51°46'41"N	001°04'56"E	8
	GB0051R	Market Harborough	52°33'16"N	000°46'20"W	145
	GB0053R	Charlton Mackrell	51°03'23"N	002°41'00"W	54
	GB1055R	Chilbolton Observatory	51°08'59"N	001°26'18"W	78

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.

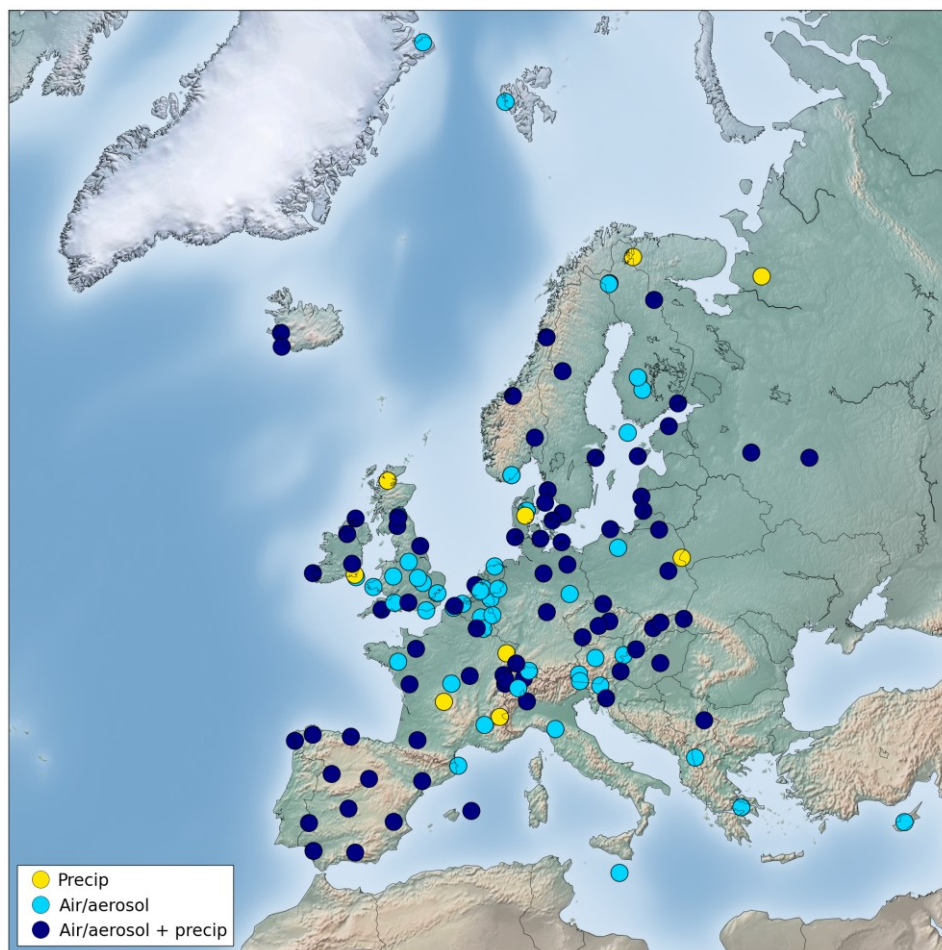


Figure 3.1: Location of the EMEP monitoring stations in operation in 2016. Sites with ozone/heavy metals/VOC measurements only are not included.

4. The measurement programme during 2016

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 discussion of this is found in the Status Report (Fagerli et al., 2018). In this report, inorganic data in air and precipitation, aerosol mass and inorganic and carbonaceous matter in air are presented, ozone (Hjellbrekke and Solberg, 2018); heavy metals and POPs (Aas, Breivik and Nizzetto, 2018) and VOC (Solberg et al. 2018) are reported separately.

A list of data reports from EMEP/CCC can be found in Annex 5.

All data reports are also available in pdf-format at

<http://www.nilu.no/projects/ccc/reports.html>.

Table 2: EMEP's measurement programme 2016.

	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.

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) in addition to guidelines and standard operation procedures developed in co-operating networks and institutions. A list of these is found at the data submission web page: <https://ebas-submit.nilu.no/Standard-Operating-Procedures>. 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 34th laboratory intercomparison is representative for the 2016 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 2016.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
AM0001R	-	342.1	6.43	1.11	1.04	0.66	0.60	0.54	0.301	1.07	3.89	0.67	36
BE0014R	739.1	758.2	5.59	0.42	0.29	0.43	0.27	2.55	0.313	4.73	0.30	0.12	28
BY0004R	828.6	-	6.43	0.79	0.69	0.75	0.37	0.88	0.319	-	1.78	0.48	32
CH0002R	1056.5	-	5.79	0.13	0.12	0.33	0.22	0.08	0.024	0.13	0.25	0.04	6
CH0004R	1148.6	-	5.52	0.11	0.10	0.23	0.18	0.09	0.025	0.14	0.26	0.04	6
CH0005R	1551.3	-	5.62	0.12	0.11	0.35	0.22	0.04	0.012	0.07	0.12	0.03	6
CZ0001R	628.8	-	4.95	0.42	0.41	0.71	0.45	0.10	0.041	0.20	0.45	0.06	18
CZ0003R	601.5	-	5.35	0.27	0.26	0.54	0.32	0.12	0.026	0.23	0.20	0.04	12
CZ0005R	1090.4	-	5.27	0.23	0.22	0.43	0.32	0.06	0.015	0.17	0.12	0.05	11
DE0001R	582.7	-	5.29	0.58	0.19	0.57	0.44	4.64	0.556	8.26	0.27	0.19	41
DE0002R	528.9	-	5.19	0.26	0.24	0.64	0.43	0.25	0.042	0.44	0.10	0.05	12
DE0003R	1706.7	-	5.32	0.12	0.11	0.23	0.20	0.12	0.022	0.19	0.10	0.03	6
DE0007R	472.8	-	5.21	0.27	0.24	0.56	0.40	0.30	0.050	0.53	0.16	0.07	12
DE0008R	1089.7	-	5.10	0.22	0.21	0.40	0.35	0.12	0.026	0.19	0.08	0.04	10
DE0009R	425.4	-	5.26	0.31	0.24	0.64	0.47	0.86	0.106	1.44	0.14	0.08	16
DK0005R	477.0	-	-	0.33	0.21	0.59	0.44	-	0.198	2.60	0.21	0.19	-
DK0008R	423.3	-	-	0.37	0.18	0.33	0.41	-	0.271	3.87	0.15	0.13	-
DK0012R	530.0	-	-	0.28	0.25	0.51	0.41	-	0.097	0.51	0.19	0.14	-
DK0022R	803.6	-	-	0.33	0.18	0.50	0.39	-	0.214	3.12	0.15	0.11	-
EE0009R	1032.8	-	4.97	0.24	0.22	0.10	0.17	0.20	0.033	0.29	0.18	0.04	8
EE0011R	475.8	-	5.18	0.28	0.23	0.36	0.32	0.56	0.123	0.92	0.40	0.14	13
ES0001R	751.0	-	5.44	0.14	0.12	0.18	0.11	0.18	0.039	0.33	0.28	0.08	6
ES0005R	1915.1	-	5.15	0.37	0.13	0.09	0.09	2.89	0.341	4.32	0.21	0.13	23
ES0006R	295.1	-	6.04	1.09	0.29	0.21	0.45	9.56	1.257	14.84	2.50	0.49	72
ES0007R	650.7	-	6.24	0.23	0.20	0.37	0.19	0.23	0.177	0.46	1.03	0.11	12
ES0008R	1088.6	-	4.55	0.47	0.18	0.23	0.54	3.49	0.452	5.49	0.41	0.13	36
ES0009R	388.5	-	5.81	0.16	0.15	0.32	0.24	0.15	0.074	0.31	0.87	0.08	10
ES0011R	630.8	-	5.50	0.15	0.11	0.11	0.12	0.55	0.079	0.89	0.27	0.06	7
ES0012R	485.9	-	5.82	0.26	0.22	0.38	0.27	0.42	0.126	0.70	1.19	0.07	14
ES0013R	681.6	-	5.68	0.11	0.09	0.30	0.10	0.27	0.068	0.48	0.32	0.15	8
ES0014R	365.0	-	6.19	0.38	0.35	0.43	0.32	0.42	0.145	0.70	2.68	0.10	19
ES0016R	2076.8	-	5.41	0.18	0.12	0.31	0.12	0.78	0.113	1.29	0.21	0.15	11
ES0017R	517.3	-	5.35	0.29	0.14	0.12	0.11	1.84	0.214	2.89	0.35	0.07	16
FI0004R	590.3	-	4.91	0.13	0.12	0.10	0.15	0.11	0.022	0.18	0.06	0.07	7
FI0018R	700.0	-	4.82	0.29	0.27	0.23	0.28	0.24	0.042	0.41	0.16	0.05	12
FI0022R	603.0	-	4.85	0.14	0.14	0.07	0.11	0.06	0.011	0.10	0.04	0.03	8
FI0036R	811.5	-	4.92	0.11	0.11	0.05	0.09	0.06	0.010	0.10	0.03	0.02	6
FR0008R	1604.9	-	5.40	0.13	0.11	0.25	0.23	0.18	0.027	0.29	0.13	0.04	-
FR0009R	1037.7	-	5.54	0.20	0.17	0.44	0.31	0.39	0.051	0.66	0.16	0.06	-
FR0010R	1187.7	-	5.52	0.13	0.10	0.23	0.17	0.37	0.044	0.62	0.13	0.07	-
FR0013R	704.1	-	5.62	0.24	0.16	0.30	0.21	0.98	0.128	1.67	0.29	0.14	-
FR0014R	1266.8	-	5.52	0.11	0.10	0.23	0.19	0.12	0.023	0.18	0.21	0.03	-
FR0015R	847.7	-	5.76	0.32	0.13	0.35	0.16	2.33	0.288	4.14	0.28	0.11	-
FR0016R	944.8	-	5.65	0.19	0.18	0.15	0.17	0.12	0.054	0.17	1.00	0.09	-
FR0017R	1313.8	-	5.53	0.13	0.10	0.20	0.13	0.41	0.055	0.70	0.13	0.04	-
FR0018R	786.0	-	5.77	0.22	0.13	0.44	0.19	1.17	0.151	1.92	0.18	0.08	-
GB0002R	1349.9	-	5.43	0.33	0.19	1.51	0.17	1.70	0.188	2.91	0.11	0.25	25
GB0006R	1271.9	-	5.46	0.36	0.08	0.20	0.09	3.42	0.393	6.02	0.20	0.14	28
GB0013R	826.6	-	5.18	0.43	0.09	0.18	0.15	4.02	0.445	7.02	0.20	0.15	32
GB0014R	881.9	-	5.24	0.37	0.22	0.52	0.36	1.70	0.187	3.02	0.18	0.09	20
GB0015R	1034.2	-	5.21	0.39	0.06	0.06	0.07	3.90	0.439	6.81	0.17	0.14	30
GB0048R	773.1	-	5.40	0.21	0.11	0.25	0.17	1.22	0.135	2.12	0.10	0.06	12
GB1055R	539.8	-	-	0.29	0.18	0.53	0.45	1.36	0.144	2.32	0.17	0.09	16
HU0002R	641.0	621.5	5.48	0.67	0.60	0.47	0.40	1.22	0.107	1.20	0.57	0.21	16
HU0003R	857.2	803.9	5.84	0.49	0.41	0.35	0.42	1.46	0.091	1.42	0.39	0.31	15
IE0001R	1959.5	1614.0	5.32	0.77	0.09	0.05	0.05	8.04	1.009	15.33	0.32	0.33	59
IE0005R	475.8	635.7	5.70	0.17	0.10	0.31	0.16	0.87	0.123	1.61	0.15	0.05	11
IE0006R	1056.0	1066.8	5.47	1.37	0.19	0.21	0.08	14.13	1.774	26.47	0.70	0.59	102
IE0009R	809.6	994.0	5.45	0.27	0.11	0.25	0.17	1.98	0.243	3.63	0.12	0.08	19
IS0002R	1856.4	-	2.72	0.33	0.08	-	0.19	2.99	0.351	5.05	0.16	0.23	22
IS0091R	1466.9	1619.5	5.37	4.81	-0.17	0.78	0.11	59.39	7.111	106.33	2.24	2.74	387

Table 3, cont.

Code	mm	mm off	pH	SO ₄	XSO ₄	NH ₄	NO ₃	Na	Mg	Cl	Ca	K	cond
IT0004R	1432.0	1091.9	5.58	0.32	0.29	0.81	0.47	0.23	0.061	0.31	0.58	0.05	14
LT0015R	684.0	-	4.94	0.30	0.20	0.32	0.35	1.13	0.149	2.18	0.22	0.06	17
LV0010R	-	873.6	5.07	0.24	0.21	0.30	0.30	0.36	0.063	0.60	0.16	0.04	12
NL0091R	753.7	-	5.16	0.39	0.19	0.42	0.32	2.30	0.301	4.53	0.19	0.14	27
NO0001R	1413.8	-	4.91	0.28	0.17	0.29	0.35	1.32	0.163	2.27	0.15	0.12	18
NO0015R	1031.4	-	5.24	0.14	0.05	0.09	0.07	1.06	0.132	1.88	0.09	0.11	10
NO0039R	1542.6	-	5.19	0.18	0.07	0.11	0.10	1.30	0.160	2.29	0.10	0.12	13
NO0056R	865.7	-	5.01	0.21	0.18	0.32	0.31	0.29	0.041	0.45	0.13	0.13	10
PL0002R	566.0	558.0	5.04	0.46	0.44	0.52	0.39	0.17	0.046	0.37	0.22	0.14	13
PL0003R	516.2	863.2	4.49	1.26	1.19	0.56	1.06	0.85	0.203	0.80	0.82	0.49	34
PL0004R	708.4	649.9	5.05	0.30	0.20	0.35	0.35	1.12	0.135	1.95	0.16	0.12	17
PL0005R	699.8	776.0	5.17	0.29	0.27	0.41	0.33	0.14	0.039	0.43	0.17	0.06	10
RS0005R	-	763.0	5.10	1.38	1.35	0.86	0.57	0.40	0.087	0.38	1.48	0.34	36
RU0001R	1190.9	-	5.59	0.30	0.24	0.25	0.14	0.85	0.054	1.82	0.38	0.98	13
RU0013R	505.7	-	5.85	0.45	0.40	0.34	0.23	0.54	0.169	0.91	0.83	0.40	12
RU0018R	784.4	-	5.44	0.37	0.35	0.28	0.19	0.15	0.054	0.59	0.44	0.16	8
RU0020R	853.2	-	5.32	0.27	0.25	0.29	0.23	0.15	0.040	0.52	0.45	0.11	8
SE0005R	538.0	-	5.21	0.07	0.07	0.11	0.09	0.05	0.012	0.10	0.02	0.02	5
SE0012R	489.9	-	4.89	0.25	0.23	0.32	0.24	0.26	0.043	0.49	0.11	0.07	10
SE0014R	522.9	-	5.07	0.35	0.15	0.39	0.35	2.36	0.289	4.19	0.18	0.11	25
SE0020R	529.2	-	4.86	0.31	0.23	0.51	0.51	0.95	0.125	1.68	0.16	0.09	19
SI0008R	1580.2	1734.3	5.26	0.25	0.23	0.22	0.21	0.28	0.054	0.47	0.37	0.05	9
SK0002R	1524.4	-	5.11	0.28	0.27	0.29	0.21	0.09	0.020	0.13	0.10	0.04	11
SK0004R	681.8	-	5.27	0.34	0.33	0.39	0.24	0.12	0.029	0.13	0.17	0.06	12
SK0006R	-	-	5.03	0.36	0.34	0.29	0.27	0.14	0.032	0.16	0.27	0.08	12
SK0007R	594.7	-	5.16	0.33	0.32	0.35	0.32	0.06	0.022	0.13	0.09	0.03	12

Table 4: Annual averages of main components in air 2016.

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	0.25	0.23	0.44	0.44	-	0.40	0.08	-	0.51	0.75
AT0002R	air/aerosol	0.45	2.47	-	-	-	-	-	-	-	-
AT0005R	air/aerosol	0.11	0.77	-	-	-	-	-	-	-	-
AT0034G	air/aerosol	-	0.25	-	-	-	-	-	-	-	-
AT0048R	air/aerosol	0.14	1.07	-	-	-	-	-	-	-	-
BE0001R	air/aerosol	-	6.60	-	-	-	-	-	-	-	-
BE0011R	air/aerosol	-	4.83	-	-	-	-	-	-	-	-
BE0013R	air/aerosol	-	3.42	-	-	-	-	-	-	-	-
BE0014R	air/aerosol	-	-	-	-	-	-	-	-	-	2.37
BE0032R	air/aerosol	-	10.42	-	-	-	-	-	-	-	-
BE0035R	air/aerosol	-	11.90	-	-	-	-	-	-	-	-
CH0001G	air/aerosol	0.02	0.08	0.06	-	-	-	-	-	-	-
CH0002R	air/aerosol	0.16	3.29	0.36	0.34	0.81	0.66	0.18	3.05	0.86	1.96
CH0003R	air/aerosol	-	3.62	-	-	-	-	-	-	-	-
CH0004R	air/aerosol	-	1.65	-	-	-	-	-	-	-	-
CH0005R	air/aerosol	0.13	1.51	0.26	0.24	0.58	0.43	0.15	1.55	0.58	0.82
CY0002R	air/aerosol	0.39	0.74	-	-	-	-	-	-	-	-
CY0002R	pm10	-	-	1.01	1.00	-	0.03	-	-	0.79	-
CZ0003R	air/aerosol	0.72	-	0.52	-	0.74	-	-	2.42	-	-
CZ0005R	air/aerosol	0.33	-	0.88	-	0.46	-	-	1.14	-	-
DE0001R	air/aerosol	-	2.22	-	-	-	-	-	-	-	1.67
DE0001R	pm25	-	-	0.34	0.32	-	0.45	-	-	0.70	-
DE0002R	air/aerosol	0.36	2.68	0.54	0.54	0.78	0.56	0.22	-	-	1.44
DE0002R	pm25	-	-	0.47	0.46	-	0.56	-	-	0.92	-
DE0003R	air/aerosol	0.25	-	0.31	0.31	0.52	0.25	0.26	-	-	0.69
DE0003R	pm25	-	-	0.24	0.24	-	0.14	-	-	0.36	-
DE0007R	air/aerosol	0.47	1.88	0.55	0.55	0.69	0.52	0.17	-	-	0.77
DE0007R	pm25	-	-	0.51	0.50	-	0.43	-	-	0.84	-
DE0008R	air/aerosol	0.34	1.77	-	-	-	-	-	-	-	0.53
DE0008R	pm25	-	-	0.31	0.30	-	0.20	-	-	0.46	-
DE0009R	air/aerosol	0.29	2.10	-	-	-	-	-	-	-	0.83
DE0009R	pm25	-	-	0.36	0.36	-	0.36	-	-	0.65	-
DE0044R	air/aerosol	-	2.95	-	-	-	-	-	-	-	-
DK0003R	air/aerosol	0.07	-	0.47	0.39	0.57	-	-	-	0.72	0.91
DK0005R	air/aerosol	-	2.46	-	-	-	-	-	-	-	-
DK0008R	air/aerosol	0.10	1.47	0.53	0.40	0.54	-	-	-	0.58	0.17
DK0010G	air/aerosol	0.03	-	0.07	0.06	0.02	-	-	-	0.02	0.01
DK0012R	air/aerosol	0.13	2.27	0.55	0.47	0.74	-	-	-	0.84	0.61
EE0009R	air/aerosol	0.67	2.17	0.10	0.10	-	0.16	-	-	1.07	-
EE0011R	air/aerosol	0.30	1.51	-	-	-	-	-	-	-	-
ES0001R	air/aerosol	0.16	0.37	-	-	0.35	-	-	1.75	-	2.12
ES0001R	pm10	-	-	0.34	0.31	-	0.16	-	-	0.37	-
ES0001R	pm25	-	-	0.25	0.24	-	0.34	-	-	0.24	-
ES0005R	air/aerosol	0.44	1.13	-	-	0.22	-	-	0.88	-	-
ES0005R	pm10	-	-	0.43	-	-	0.20	-	-	-	-
ES0006R	air/aerosol	0.27	1.01	-	-	0.51	-	-	1.45	-	-
ES0006R	pm10	-	-	0.69	-	-	0.44	-	-	-	-
ES0007R	air/aerosol	0.33	1.13	-	-	0.51	-	-	1.59	-	1.57
ES0007R	pm10	-	-	0.37	0.34	-	0.24	-	-	0.55	-
ES0007R	pm25	-	-	0.29	0.28	-	0.45	-	-	0.23	-
ES0008R	air/aerosol	0.24	0.82	-	-	0.48	-	-	1.31	-	1.10
ES0008R	pm10	-	-	0.64	0.52	-	0.26	-	-	0.32	-
ES0008R	pm25	-	-	0.40	0.38	-	0.07	-	-	0.16	-
ES0009R	air/aerosol	0.24	0.86	-	-	0.31	-	-	1.14	-	1.07
ES0009R	pm10	-	-	0.28	0.27	-	0.10	-	-	0.30	-
ES0009R	pm25	-	-	0.22	0.21	-	0.35	-	-	0.19	-
ES0010R	air/aerosol	0.26	1.43	-	-	0.63	-	-	1.30	-	-
ES0010R	pm10	-	-	0.53	-	-	0.43	-	-	-	-
ES0011R	air/aerosol	0.20	0.66	-	-	0.31	-	-	1.31	-	-
ES0011R	pm10	-	-	0.41	-	-	0.22	-	-	-	-
ES0012R	air/aerosol	0.30	0.80	-	-	0.48	-	-	1.47	-	-
ES0012R	pm10	-	-	0.46	-	-	0.33	-	-	-	-
ES0013R	air/aerosol	0.16	0.31	-	-	0.32	-	-	1.17	-	-
ES0013R	pm10	-	-	0.28	-	-	0.18	-	-	-	-
ES0014R	air/aerosol	0.39	1.04	-	-	0.44	-	-	2.92	-	3.77

Table 4 cont.

Code	Matrix	SO ₂	NO ₂	SO ₄	XSO ₄	SNO ₃	NO ₃	HNO ₃	SNH ₄	NH ₄	NH ₃
ES0014R	pm10	-	-	0.44	0.41	-	0.23	-	-	0.65	-
ES0014R	pm25	-	-	0.42	0.41	-	0.70	-	-	0.41	-
ES0016R	air/aerosol	0.17	0.91	-	-	0.33	-	-	1.65	-	-
ES0016R	pm10	-	-	0.41	-	-	0.16	-	-	-	-
ES0017R	air/aerosol	0.18	0.55	-	-	0.56	-	-	1.56	-	-
ES0017R	pm10	-	-	0.72	-	-	0.41	-	-	-	-
FI0009R	air/aerosol	0.15	0.95	0.29	0.25	0.27	0.16	0.11	0.29	0.21	0.08
FI0018R	air/aerosol	0.56	1.29	0.32	0.30	0.17	0.10	0.08	0.33	0.23	0.11
FI0022R	air/aerosol	0.21	1.33	0.23	0.22	0.04	0.01	0.03	0.12	0.09	0.02
FI0036R	air/aerosol	0.12	-	0.16	0.15	0.04	0.02	0.02	0.09	0.07	0.02
FI0037R	air/aerosol	0.11	0.56	0.22	0.21	0.09	0.03	0.06	0.20	0.13	0.07
FI0096G	air/aerosol	-	0.29	-	-	-	-	-	-	-	-
FR0009R	pm25	-	-	0.45	0.45	-	0.41	-	-	0.21	-
FR0013R	pm25	-	-	0.30	0.29	-	0.09	-	-	0.09	-
FR0023R	pm25	-	-	0.33	0.32	-	0.12	-	-	0.10	-
FR0024R	pm25	-	-	0.36	0.35	-	0.35	-	-	0.19	-
FR0025R	pm25	-	-	0.28	0.27	-	0.22	-	-	0.12	-
GB0002R	air/aerosol	-	0.62	-	-	-	-	-	-	-	-
GB0006R	air/aerosol	-	-	-	-	-	0.15	0.02	-	0.33	0.41
GB0013R	air/aerosol	-	1.36	-	-	-	-	-	-	-	-
GB0014R	air/aerosol	-	1.65	-	-	-	-	-	-	-	-
GB0031R	air/aerosol	-	1.12	-	-	-	-	-	-	-	-
GB0033R	air/aerosol	-	1.95	-	-	-	-	-	-	-	-
GB0037R	air/aerosol	1.17	2.25	-	-	-	-	-	-	-	-
GB0038R	air/aerosol	0.42	2.37	-	-	-	-	-	-	-	-
GB0043R	air/aerosol	0.57	1.17	-	-	-	-	-	-	-	-
GB0045R	air/aerosol	0.41	2.90	-	-	-	-	-	-	-	-
GB0048R	air/aerosol	0.08	-	-	-	-	-	0.02	-	-	1.01
GB0048R	pm10	-	-	0.29	0.24	-	0.31	-	-	0.48	-
GB0048R	pm25	-	-	0.26	0.23	-	0.25	-	-	0.43	-
GB0050R	air/aerosol	-	3.99	-	-	-	-	-	-	-	-
GB0051R	air/aerosol	-	3.25	-	-	-	-	-	-	-	-
GB0053R	air/aerosol	-	2.24	-	-	-	-	-	-	-	-
GB1055R	air/aerosol	0.08	-	-	-	-	-	0.04	-	-	4.84
GB1055R	pm10	-	-	0.51	0.46	-	0.79	-	-	1.05	-
GB1055R	pm25	-	-	0.48	0.45	-	0.67	-	-	0.99	-
GR0001R	air/aerosol	2.88	4.02	-	-	-	-	-	-	-	-
HU0002R	air/aerosol	0.77	1.14	1.04	-	-	0.51	0.21	-	0.77	1.55
HU0003R	air/aerosol	0.27	0.92	0.75	-	0.52	0.32	0.20	1.18	0.50	0.68
IE0001R	air/aerosol	0.24	2.32	0.30	0.13	0.31	-	-	0.73	-	-
IE0005R	air/aerosol	-	-	0.30	0.23	-	0.34	-	-	0.57	-
IE0006R	air/aerosol	-	-	0.34	0.19	-	0.21	-	-	0.41	-
IE0008R	air/aerosol	-	-	0.49	0.25	-	0.36	-	-	0.53	-
IS0002R	air/aerosol	0.07	-	0.20	0.12	-	-	-	-	-	-
IS0091R	air/aerosol	-	-	0.38	0.25	-	0.02	-	-	-	-
IT0004R	air/aerosol	0.41	6.19	-	-	-	-	-	-	-	-
IT0004R	pm25	-	-	0.50	0.50	-	0.68	-	-	1.06	-
IT0009R	air/aerosol	0.10	-	-	-	-	-	-	-	-	-
LT0015R	air/aerosol	0.18	0.94	0.51	0.39	0.61	0.57	-	0.82	0.69	-
LV0010R	air/aerosol	0.20	0.75	0.31	-	0.38	0.06	0.33	0.75	0.58	0.23
LV0010R	pm25	-	-	0.29	0.28	-	0.07	-	-	0.28	-
MK0007R	air/aerosol	0.73	-	-	-	-	-	-	-	-	-
MT0001R	air/aerosol	0.37	4.71	-	-	-	-	-	-	-	-
NL0007R	air/aerosol	0.47	4.27	-	-	-	-	-	-	-	-
NL0009R	air/aerosol	0.18	2.79	-	-	-	-	-	-	-	-
NL0010R	air/aerosol	-	5.07	-	-	-	-	-	-	-	-
NL0010R	pm10	-	-	0.60	0.59	-	1.02	-	-	1.13	-
NL0091R	air/aerosol	0.50	4.54	-	-	-	-	-	-	-	-
NL0091R	pm10	-	-	0.57	-	-	0.76	-	-	0.75	-
NL0644R	air/aerosol	0.32	5.38	-	-	-	-	-	-	-	-
NO0002R	air/aerosol	0.05	0.30	0.20	0.17	0.25	0.21	0.04	0.40	0.23	0.16
NO0015R	air/aerosol	0.04	0.11	0.13	0.11	0.07	0.05	0.02	0.43	0.07	0.36
NO0039R	air/aerosol	0.03	0.15	0.11	0.10	0.07	0.04	0.02	0.44	0.06	0.37
NO0042G	air/aerosol	0.06	-	0.11	0.09	0.05	0.03	0.02	0.17	0.03	0.14
NO0056R	air/aerosol	0.03	0.61	0.17	0.16	0.16	0.13	0.04	0.30	0.15	0.15

Table 4 cont.

Code	Matrix	SO ₂	NO ₂	SO ₄	XSO ₄	SNO ₃	NO ₃	HNO ₃	SNH ₄	NH ₄	NH ₃
PL0002R	air/aerosol	0.95	1.98	0.96	0.96	0.57	0.43	-	2.54	0.88	-
PL0003R	air/aerosol	1.08	1.10	0.92	0.92	0.57	0.44	-	0.81	0.58	-
PL0004R	air/aerosol	0.69	1.45	0.90	0.90	0.47	0.40	-	1.32	0.71	-
PL0005R	air/aerosol	0.16	1.12	0.54	-	0.57	0.39	0.19	1.45	0.70	0.77
PL0005R	pm25	-	-	0.47	0.47	-	0.31	-	-	0.64	-
PL0009R	pm25	-	-	0.56	0.56	-	0.39	-	-	0.69	-
RS0005R	air/aerosol	4.69	0.39	-	-	-	-	-	-	-	-
RU0018R	air/aerosol	0.21	-	0.35	-	-	0.19	-	-	0.38	-
RU0020R	air/aerosol	0.13	-	0.42	-	-	0.11	-	-	0.20	-
SE0005R	air/aerosol	0.03	0.08	0.09	0.09	0.04	0.02	0.02	0.13	0.07	0.06
SE0012R	air/aerosol	0.10	0.44	0.24	0.21	0.20	0.12	0.08	0.33	0.19	0.14
SE0014R	air/aerosol	0.12	1.09	0.33	0.20	0.38	0.27	0.11	0.53	0.26	0.27
SE0020R	air/aerosol	0.13	0.96	0.29	0.25	0.47	0.32	0.15	1.08	0.67	0.41
SI0008R	air/aerosol	0.14	0.51	0.48	0.47	0.18	0.13	0.05	0.68	0.42	0.25
SI0008R	pm25	-	-	0.54	0.53	-	0.07	-	-	0.53	-
SK0002R	air/aerosol	0.27	0.72	0.18	0.16	-	0.10	0.07	-	-	-
SK0006R	air/aerosol	0.50	1.32	0.58	0.57	-	0.26	0.07	-	0.77	1.39

Table 5: Annual averages and data capture of base cations and chloride in aerosols in 2016.

Code	Matrix	Na	capture	Ca	capture	Mg	capture	K	capture	Cl	capture
AM0001R	aerosol	0.06	73	0.34	75	0.04	75	0.09	69	0.13	75
CH0002R	aerosol	0.13	99	0.31	99	0.03	99	0.18	99	-	-
CH0005R	aerosol	0.09	98	0.22	98	0.02	98	0.07	98	-	-
CY0002R	pm10	0.16	96	0.14	96	0.03	96	0.09	96	0.03	96
CZ0003R	pm25	0.03	99	0.04	99	0.01	99	0.08	99	-	-
DE0001R	pm25	0.25	17	0.04	17	0.03	17	0.05	17	0.34	17
DE0002R	aerosol	-	-	-	-	-	-	-	-	0.36	99
DE0002R	pm25	0.12	17	0.03	17	0.02	17	0.07	17	0.13	17
DE0003R	aerosol	-	-	-	-	-	-	-	-	0.08	97
DE0003R	pm25	0.03	17	0.02	17	0.00	17	0.03	17	0.01	17
DE0007R	aerosol	-	-	-	-	-	-	-	-	0.38	99
DE0007R	pm25	0.11	17	0.03	17	0.01	17	0.06	17	0.10	17
DE0008R	pm25	0.04	17	0.02	17	0.01	17	0.03	17	0.02	17
DE0009R	pm25	0.09	16	0.01	16	0.01	16	0.04	16	0.09	16
DK0003R	aerosol	0.92	88	0.12	88	-	-	0.11	88	1.42	88
DK0008R	aerosol	1.52	95	0.13	95	-	-	0.09	94	2.30	93
DK0010G	aerosol	0.14	100	0.02	94	-	-	0.01	94	0.16	100
DK0012R	aerosol	0.76	95	0.16	95	-	-	0.11	94	1.12	96
EE0009R	aerosol	0.09	100	0.09	100	0.02	100	0.07	100	0.14	100
ES0001R	pm10	0.22	100	0.25	100	0.04	100	0.09	100	0.26	16
ES0001R	pm25	0.20	16	0.07	16	0.01	16	0.06	16	0.09	16
ES0007R	pm10	0.23	98	0.41	98	0.05	98	0.12	98	0.20	16
ES0007R	pm25	0.18	14	0.17	14	0.02	14	0.12	14	0.08	14
ES0008R	pm10	1.47	99	0.19	99	0.18	99	0.15	99	1.63	16
ES0008R	pm25	0.40	16	0.07	16	0.03	16	0.08	16	0.25	16
ES0009R	pm10	0.13	98	0.23	98	0.02	98	0.04	98	0.19	16
ES0009R	pm25	0.19	16	0.10	16	0.01	16	0.03	16	0.12	16
ES0014R	pm10	0.34	95	0.29	95	0.04	95	0.11	95	0.15	16
ES0014R	pm25	0.24	16	0.13	16	0.02	16	0.08	16	0.12	16
FI0009R	aerosol	0.48	98	0.06	98	0.06	98	0.04	98	0.48	98
FI0018R	aerosol	0.17	99	0.06	99	0.02	99	0.05	99	0.10	99
FI0022R	aerosol	0.09	97	0.01	97	0.01	97	0.02	97	0.03	97
FI0036R	aerosol	0.11	94	0.01	94	0.01	94	0.01	94	0.12	94
FI0037R	aerosol	0.11	98	0.02	98	0.01	98	0.04	98	0.04	98
FR0009R	pm25	0.08	16	0.03	16	0.01	16	0.05	16	0.03	16
FR0013R	pm25	0.06	11	0.01	11	0.01	11	0.05	11	0.04	11
FR0023R	pm25	0.04	16	0.08	16	0.01	16	0.05	16	0.01	16
FR0024R	pm25	0.15	14	0.01	14	0.02	14	0.05	14	0.18	14
FR0025R	pm25	0.08	16	0.03	16	0.01	16	0.05	16	0.06	16
GB0048R	pm10	0.58	55	0.05	59	0.06	59	0.05	58	1.11	58
GB0048R	pm25	0.31	62	0.02	61	0.03	63	0.03	63	0.59	65
GB1055R	pm10	0.66	51	0.23	51	0.14	51	0.11	51	1.04	51
GB1055R	pm25	0.30	53	0.07	54	0.08	54	0.08	54	0.47	57
IE0001R	aerosol	2.07	80	0.14	80	0.26	80	0.09	80	3.60	80
IE0005R	aerosol	0.73	97	0.07	97	0.08	97	0.06	97	1.44	97
IE0006R	aerosol	1.81	99	0.09	99	0.20	99	0.08	99	3.37	99
IE0008R	aerosol	2.92	100	0.15	100	0.34	100	0.13	100	5.35	100
IS0002R	aerosol	1.00	94	0.12	94	0.07	93	0.14	84	1.50	94
IS0091R	aerosol	-	-	-	-	-	-	-	-	7.74	46
IT0004R	pm25	0.05	97	0.01	96	0.00	97	0.23	97	0.07	97
LT0015R	aerosol	1.53	96	0.24	96	-	-	0.18	96	2.47	96
LV0010R	pm25	0.07	88	0.09	86	0.01	82	0.07	88	0.03	88
NL0008R	pm10	0.74	48	0.18	48	0.11	48	-	-	-	-
NL0010R	pm10	-	-	-	-	-	-	-	-	0.55	49
NL0091R	pm10	-	-	-	-	-	-	-	-	1.44	48
NL0644R	pm25	0.24	25	0.06	25	0.03	25	-	-	-	-
NO0002R	aerosol	0.42	99	0.04	99	0.05	99	0.06	99	0.53	99
NO0015R	aerosol	0.25	97	0.02	97	0.03	97	0.03	97	0.34	97
NO0039R	aerosol	0.15	96	0.02	96	0.02	96	0.03	96	0.17	96
NO0042G	aerosol	0.23	100	0.02	100	0.04	100	0.05	100	0.33	100
NO0056R	aerosol	0.16	90	0.03	90	0.02	90	0.06	90	0.14	90

Table 5 cont.

Code	Matrix	Na	capture	Ca	capture	Mg	capture	K	capture	Cl	capture
PL0002R	aerosol	-	-	-	-	-	-	-	-	0.61	99
PL0003R	aerosol	-	-	-	-	-	-	-	-	0.50	100
PL0004R	aerosol	-	-	-	-	-	-	-	-	0.77	99
PL0005R	pm25	0.10	82	0.04	82	0.01	82	0.07	82	0.05	82
PL0009R	pm25	0.09	80	0.10	80	0.01	80	0.09	80	0.13	80
SE0005R	aerosol	0.10	99	0.01	99	0.01	99	0.01	99	0.12	99
SE0012R	aerosol	0.30	99	0.04	99	0.04	99	0.04	99	0.24	99
SE0014R	aerosol	1.54	99	0.10	99	0.20	99	0.09	99	2.25	99
SE0020R	aerosol	0.50	97	0.08	97	0.07	97	0.07	97	0.52	97
SI0008R	aerosol	0.10	99	0.12	99	0.04	99	0.12	99	0.07	99
SI0008R	pm25	0.03	49	0.02	49	0.01	49	0.12	49	0.02	49
SK0002R	aerosol	-	-	-	-	-	-	-	-	0.13	67
SK0006R	aerosol	0.19	65	0.13	65	0.02	65	0.15	65	0.20	66

Table 6: Annual averages and data capture of particulate matter in 2016.

Code	PM10	capture	PM2.5	capture	PM1	capture
AT0002R	16.78	99	13.20	95	9.36	33
AT0005R	6.60	31	-	-	-	-
AT0048R	6.05	33	-	-	-	-
CH0001G	1.74	98	-	-	-	-
CH0002R	11.56	100	8.09	25	-	-
CH0003R	11.44	100	-	-	-	-
CH0004R	6.44	100	-	-	-	-
CH0005R	6.20	100	4.77	23	-	-
CY0002R	19.91	95	9.78	96	-	-
CZ0001R	15.23	49	-	-	-	-
CZ0003R	16.43	96	13.55	51	-	-
CZ0005R	7.22	100	-	-	-	-
DE0001R	16.22	99	-	-	-	-
DE0002R	15.22	99	11.92	99	7.67	99
DE0003R	9.03	99	7.17	99	-	-
DE0007R	14.80	100	10.94	100	-	-
DE0008R	10.54	98	8.27	100	-	-
DE0009R	13.92	99	-	-	-	-
EE0009R	5.63	99	5.18	100	-	-
EE0011R	-	-	4.38	100	-	-
ES0001R	12.63	99	5.60	93	-	-
ES0005R	8.00	73	-	-	-	-
ES0006R	15.68	87	5.66	87	-	-
ES0007R	17.54	98	9.61	71	-	-
ES0008R	14.92	99	5.54	96	-	-
ES0009R	9.81	96	4.10	81	-	-
ES0010R	15.78	94	6.17	87	-	-
ES0011R	14.83	94	6.52	91	-	-
ES0012R	14.81	88	5.30	98	-	-
ES0013R	8.02	84	4.12	91	-	-
ES0014R	12.00	95	6.19	90	-	-
ES0016R	8.95	94	7.57	70	-	-
ES0017R	17.84	90	-	-	-	-
FI0009R	-	-	3.85	99	-	-
FI0018R	8.90	95	6.03	100	-	-
FI0036R	-	-	2.64	91	-	-
FI0050R	4.93	86	3.81	86	2.90	86
FI0096G	2.82	98	-	-	-	-
FR0009R	10.40	93	7.45	98	-	-
FR0010R	11.33	88	6.53	86	-	-
FR0013R	13.40	83	7.77	65	-	-
FR0014R	12.31	74	-	-	-	-
FR0015R	14.42	94	10.27	89	-	-
FR0018R	13.51	97	8.39	94	-	-
FR0023R	7.63	98	5.35	98	-	-
FR0024R	14.62	94	8.89	86	-	-
FR0025R	-	-	7.93	96	-	-
GB0006R	0.46	80	-	-	-	-
GB0043R	2.92	95	-	-	-	-
GB0048R	1.71	78	0.34	87	-	-
GB1055R	4.05	82	2.87	90	-	-
GR0001R	33.69	65	15.62	78	-	-
HU0002R	17.93	90	13.94	100	-	-
HU0003R	16.65	52	14.95	52	-	-
IT0004R	-	-	14.57	97	-	-
LV0010R	13.26	85	9.08	79	-	-
MK0007R	11.19	65	-	-	-	-
NL0007R	17.13	99	-	-	-	-
NL0009R	14.96	98	8.82	92	-	-
NL0010R	18.64	96	8.81	90	-	-
NL0091R	15.63	97	8.24	90	-	-
NL0644R	15.34	98	8.95	89	-	-

Table 6 cont.

Code	PM10	capture	PM2.5	capture	PM1	capture
NO0002R	4.34	100	2.46	100	NO0002R	4.34
NO0039R	2.52	94	1.64	88	NO0039R	2.52
NO0056R	4.00	100	2.61	98	NO0056R	4.00
PL0005R	15.76	95	11.44	95	PL0005R	15.76
PL0009R	15.62	94	12.21	91	PL0009R	15.62
RS0005R	16.75	78	-	-	RS0005R	16.75
SE0005R	3.09	96	2.11	95	SE0005R	3.09
SE0011R	12.68	85	6.04	14	SE0011R	12.68
SE0012R	7.86	89	4.40	97	SE0012R	7.86
SE0014R	12.57	97	3.77	95	SE0014R	12.57
SI0008R	11.42	96	9.29	97	SI0008R	11.42
SK0004R	4.45	25	-	-	SK0004R	4.45
SK0006R	3.29	31	-	-	SK0006R	3.29
SK0007R	3.90	24	-	-	SK0007R	3.90

Table 7: Annual averages and data capture for carbonaceous compounds in 2016.

Code	Matrix	OC capture		EC capture		TC capture	
CH0002R	pm25	1.48	8	0.43	8	1.91	8
CH0005R	pm25	0.82	8	0.29	8	1.13	8
CY0002R	pm10	1.32	96	0.22	96	1.54	96
DE0002R	pm25	2.57	17	0.27	17	2.84	17
DE0003R	pm25	1.05	17	0.10	17	1.14	17
DE0007R	pm25	2.63	17	0.29	17	2.92	17
DE0008R	pm25	1.36	17	0.16	17	1.52	17
DE0044R	pm10	3.64	100	0.44	100	3.81	99
DE0044R	pm25	3.05	99	0.41	99	3.23	99
ES0001R	pm25	1.76	17	0.11	17	1.87	17
ES0007R	pm25	2.70	16	0.27	16	2.96	16
ES0009R	pm25	1.61	16	0.10	16	1.71	16
ES0012R	pm25	2.31	15	0.18	15	2.49	15
ES0014R	pm25	1.88	15	0.13	15	2.01	15
ES1778R	pm1	1.18	24	0.19	24	1.37	24
ES1778R	pm10	1.36	24	0.21	24	1.57	24
ES1778R	pm25	1.09	15	0.18	15	1.27	15
FR0009R	pm25	1.83	16	0.18	16	2.00	16
FR0013R	pm25	1.89	11	0.17	11	2.06	11
FR0023R	pm25	1.84	16	0.18	16	2.01	16
FR0024R	pm25	1.99	15	0.36	15	2.35	15
FR0025R	pm25	2.11	17	0.19	17	2.30	17
IT0004R	pm25	4.88	97	1.14	97	6.03	97
NL0644R	pm10	2.36	25	0.39	25	2.76	25
NO0002R	pm10	0.73	100	0.06	100	0.80	100
NO0002R	pm10_pm25	0.21	95	-	-	0.21	94
NO0002R	pm25	0.54	100	0.06	100	0.60	100
NO0039R	pm10	0.70	94	0.04	94	0.74	94
NO0039R	pm10_pm25	0.23	85	-	-	0.23	85
NO0039R	pm25	0.49	96	0.04	96	0.53	96
NO0056R	pm10	0.94	100	0.10	100	1.04	100
NO0056R	pm10_pm25	0.30	93	-	-	0.31	91
NO0056R	pm25	0.66	100	0.10	100	0.76	100
PL0005R	pm25	3.02	95	0.47	95	3.49	95
PL0009R	pm25	4.29	46	0.68	46	4.97	46
SI0008R	pm25	2.63	49	0.19	49	2.81	49

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 in August 2018.

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/c3c/>. Information about the EMEP network and measurement data can also be found at <http://www.emep.int>.

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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	CNR - ISAC
Kazakhstan	Hydrometeorological Monitoring
Latvia	Latvian Environment, Geology and Meteorology Agency
Lithuania	Center for Physical Sciences and Technology
Macedonia	Ministry of Environment and Physical Planning
Malta	Department of Geoscience, University of Malta
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

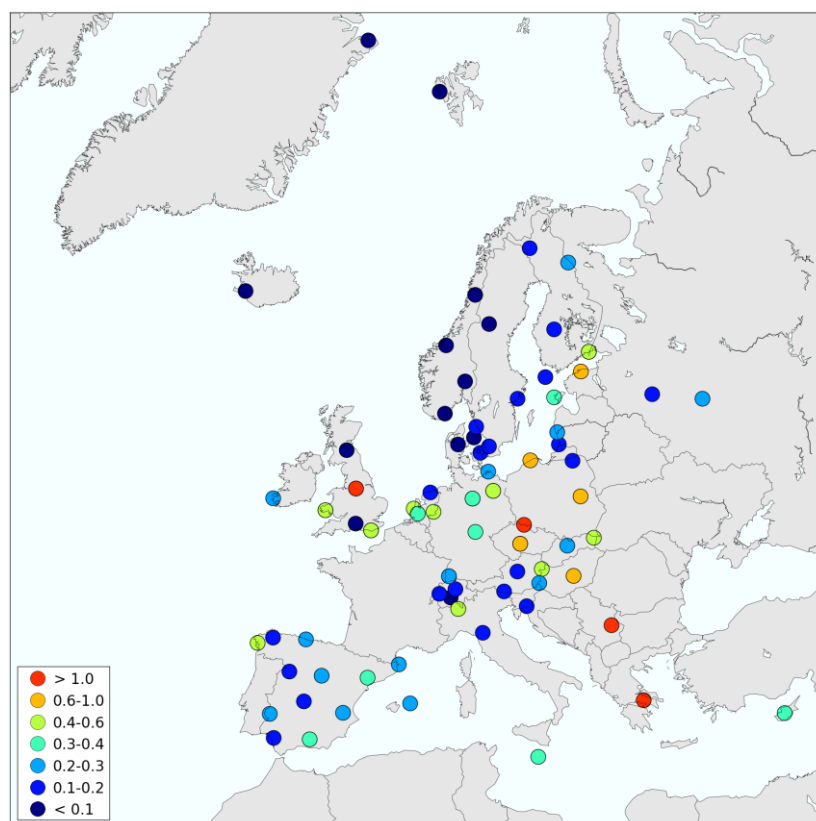


Figure 1.1: Geographical distribution of sulphur dioxide 2016. Unit: $\mu\text{g S/m}^3$.

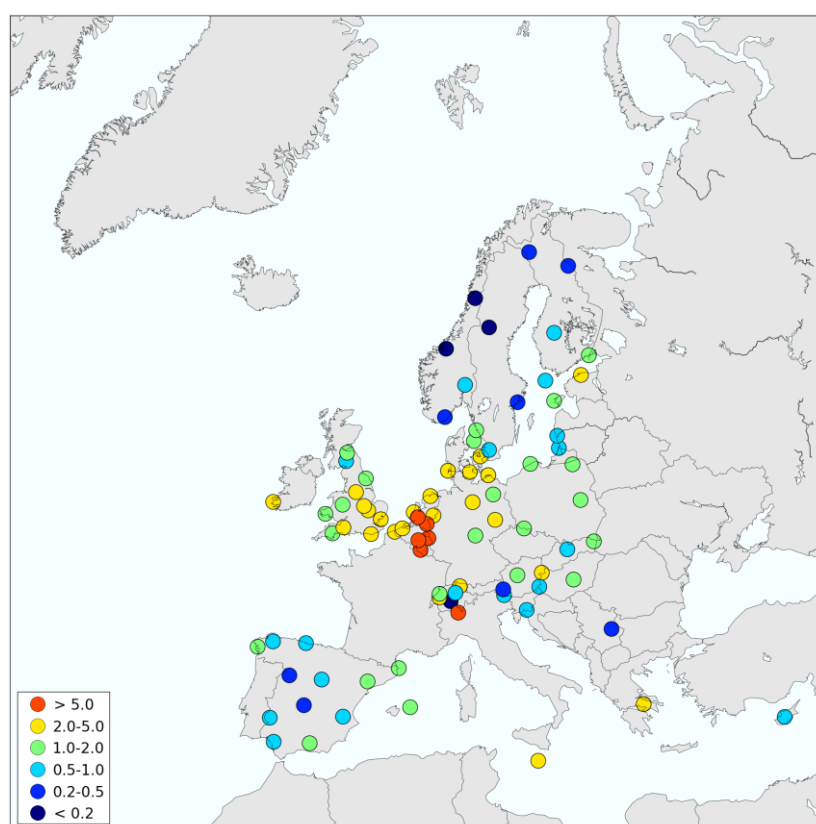


Figure 1.2: Geographical distribution of nitrogen dioxide 2016. Unit: $\mu\text{g N/m}^3$.

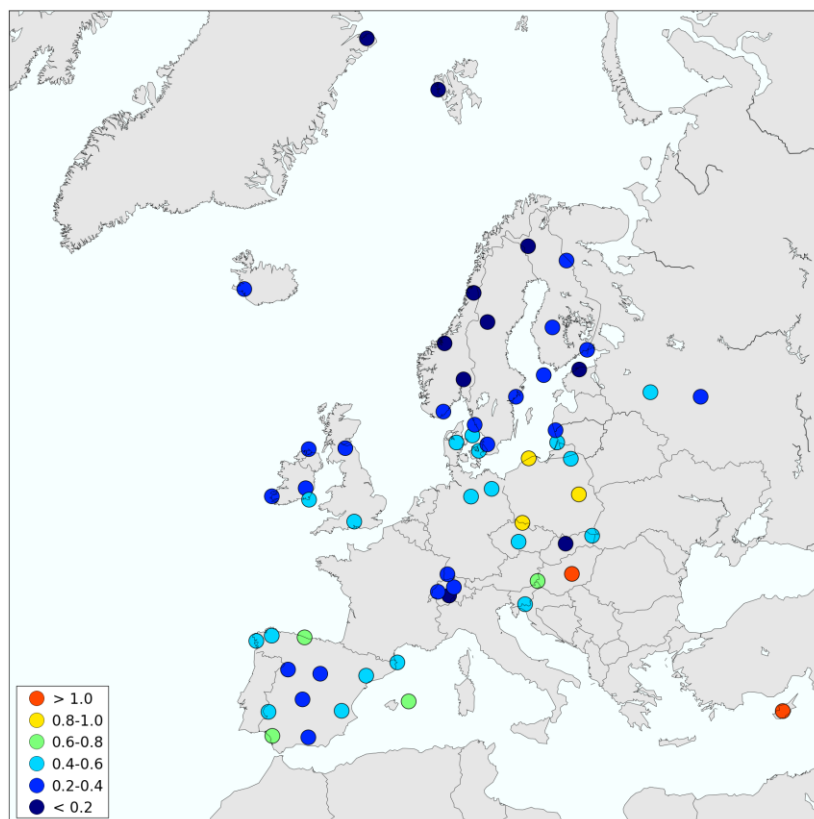


Figure 1.3: Geographical distribution of sulphate in aerosols 2016. Unit: $\mu\text{g S}/\text{m}^3$.

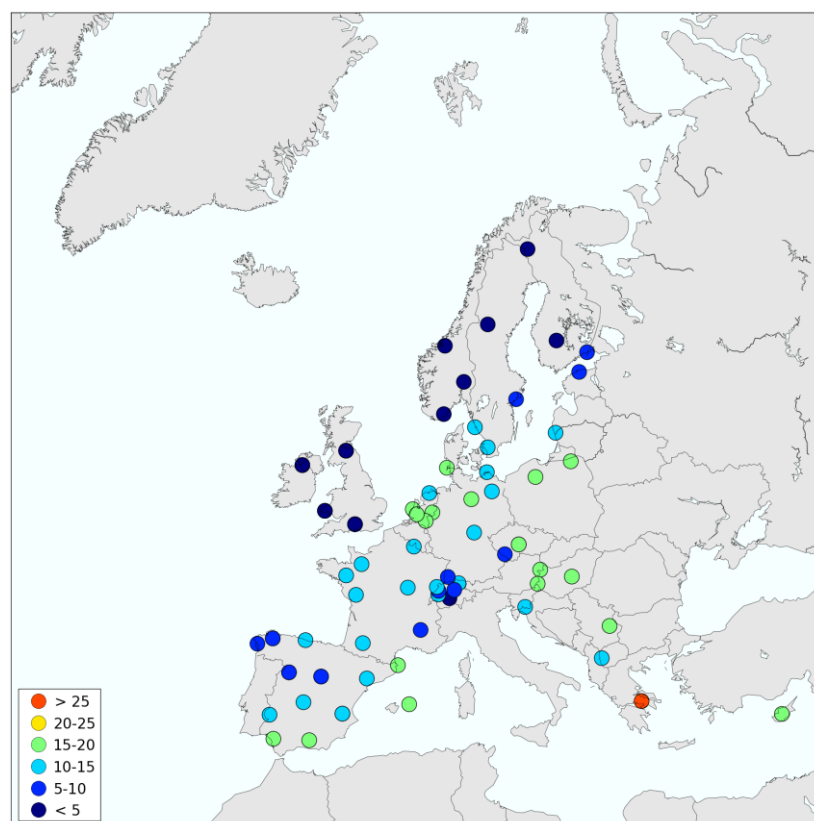


Figure 1.4: Geographical distribution of PM_{10} 2016. Unit: $\mu\text{g}/\text{m}^3$.

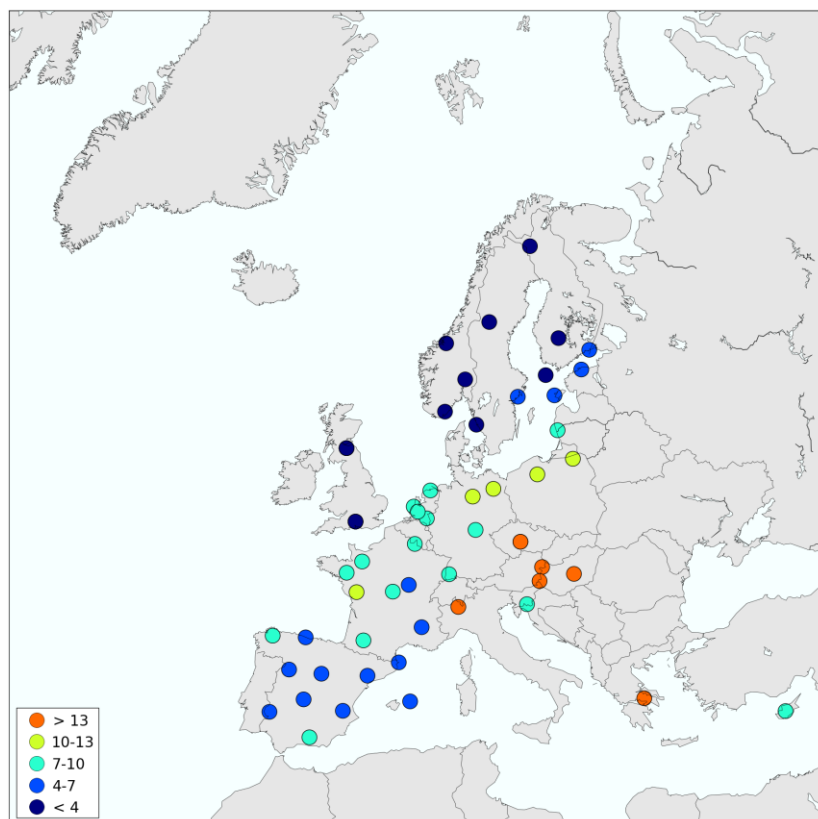


Figure 1.5: Geographical distribution of $fPM_{2.5}$ 2016. Unit: $\mu g/m^3$.

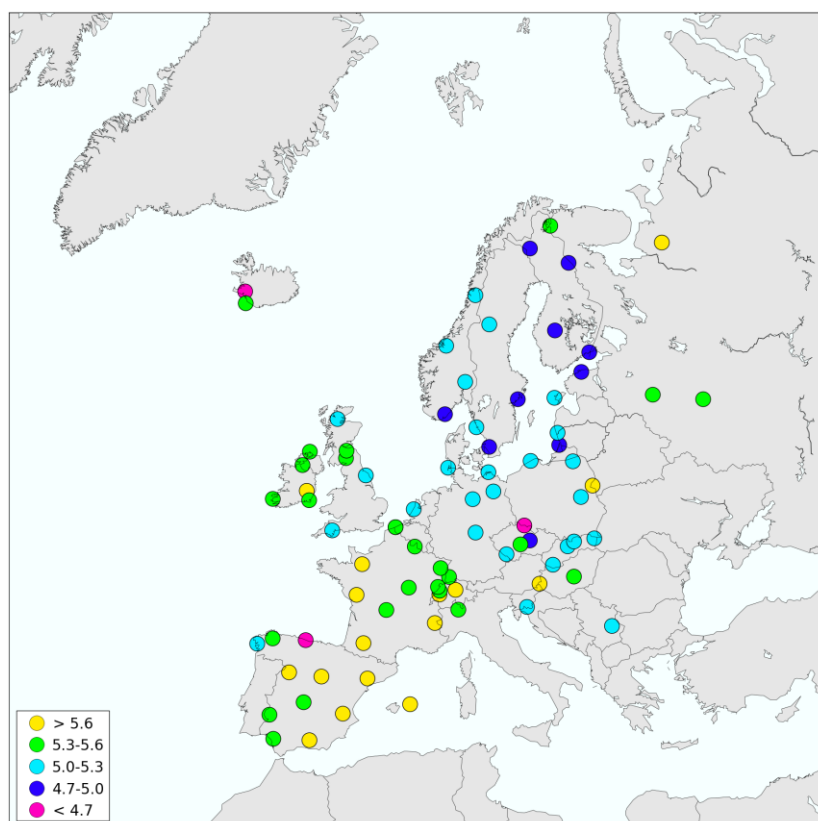


Figure 1.6: Geographical distribution of pH in precipitation 2016. Unit: pH units.

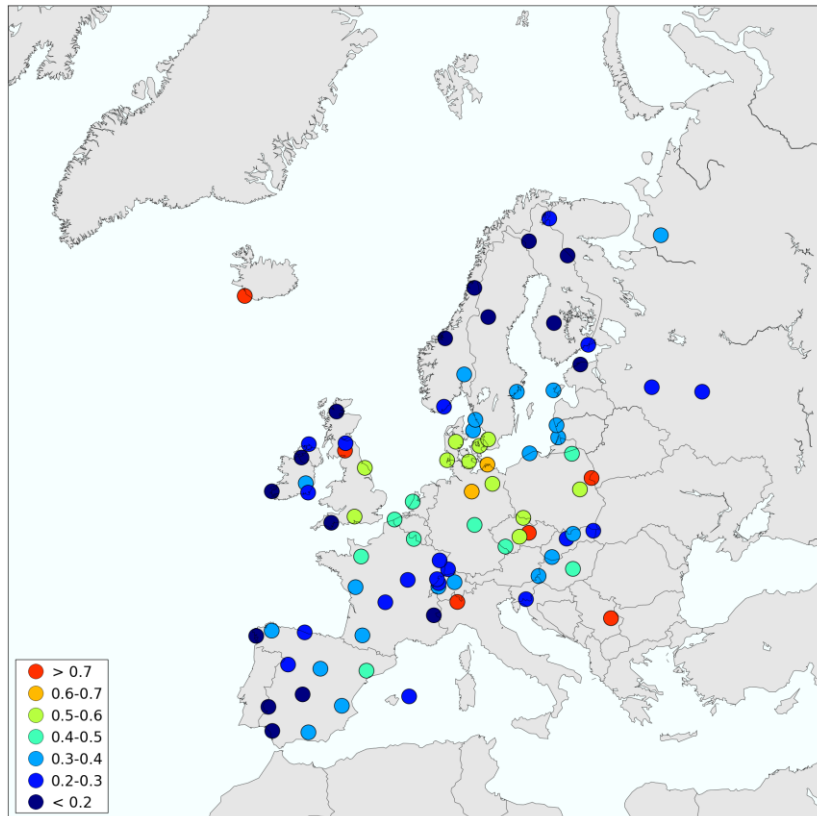


Figure 1.7: Geographical distribution of ammonium in precipitation 2016. Unit: mg N/l.

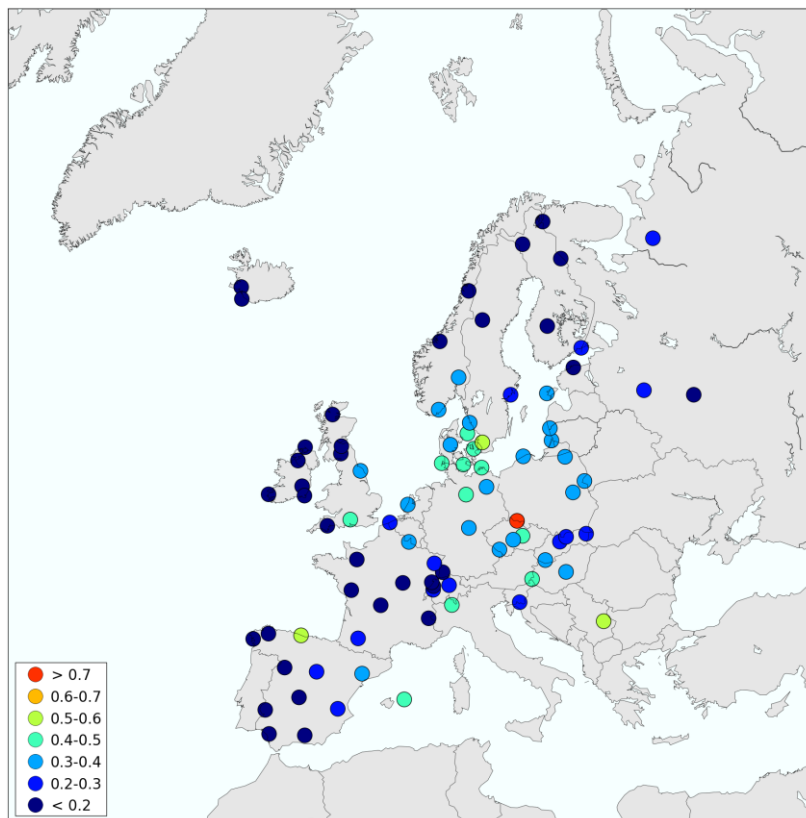


Figure 1.8: Geographical distribution of nitrate in precipitation 2016. Unit: mg N/l.

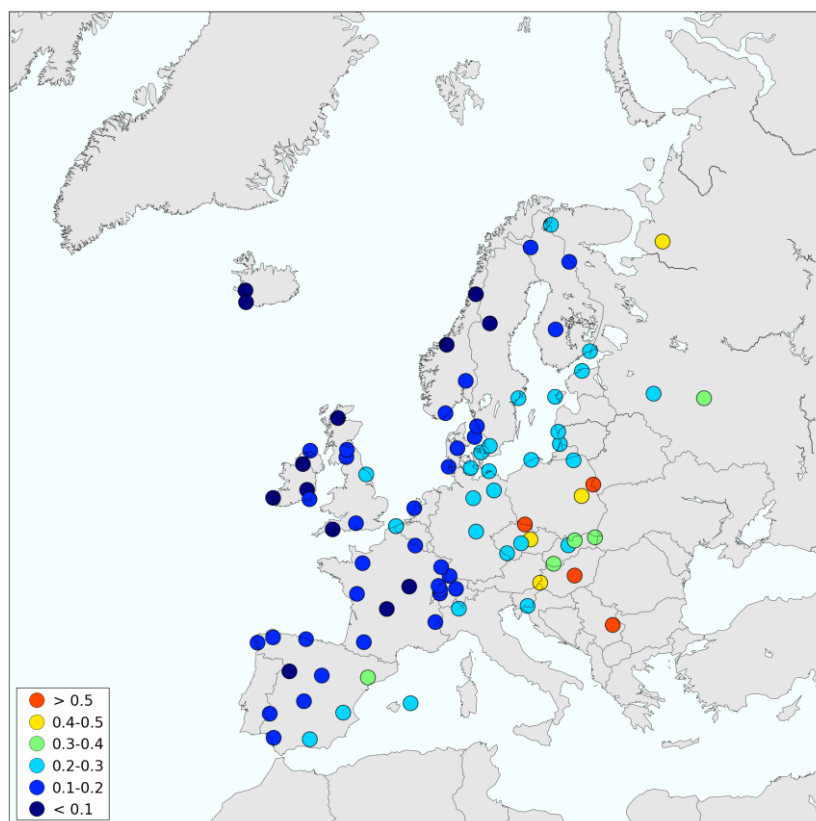


Figure 1.9: Geographical distribution of sulphate in precipitation 2016 (corrected for sea spray). Unit: mg S/l.

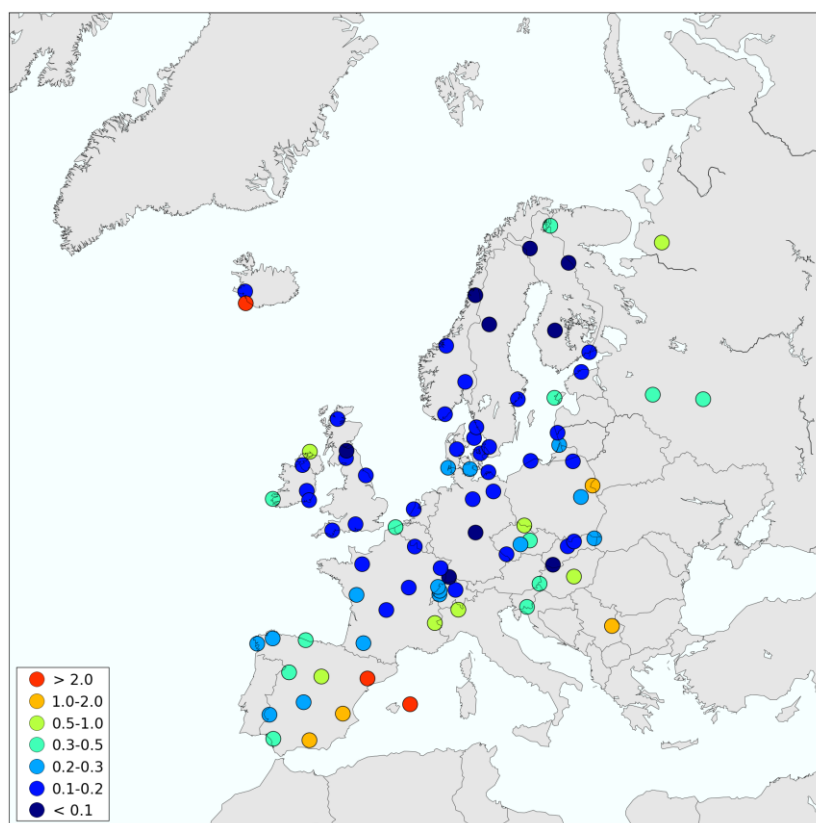


Figure 1.10: Geographical distribution of calcium in precipitation 2016. Unit: mg/l.

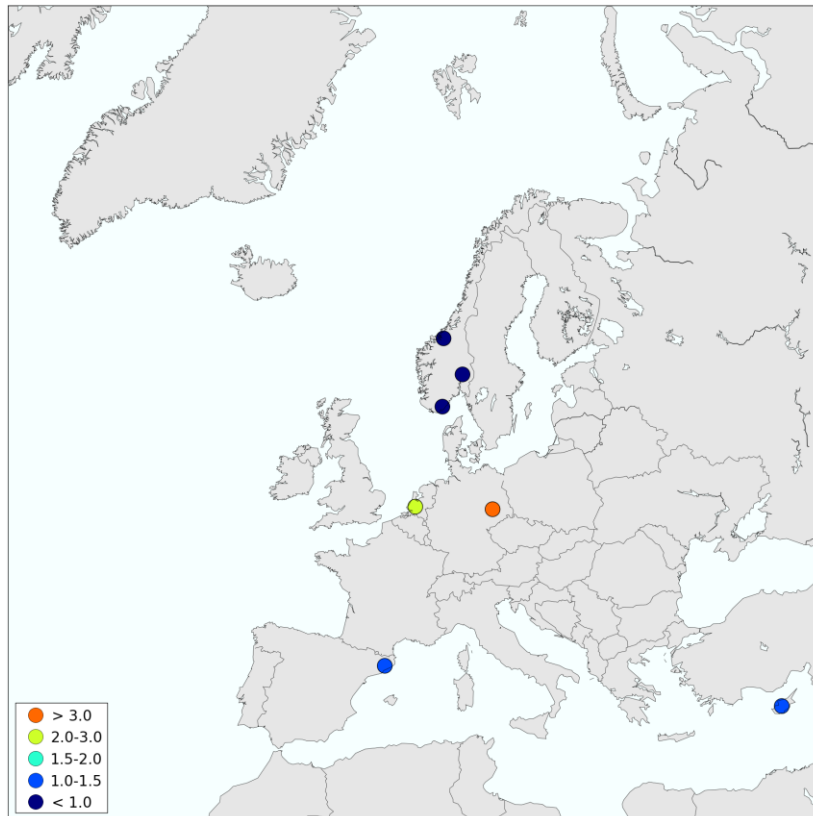


Figure 1.11: Geographical distribution of fOC in PM₁₀ 2016. Unit: $\mu\text{g}/\text{m}^3$.

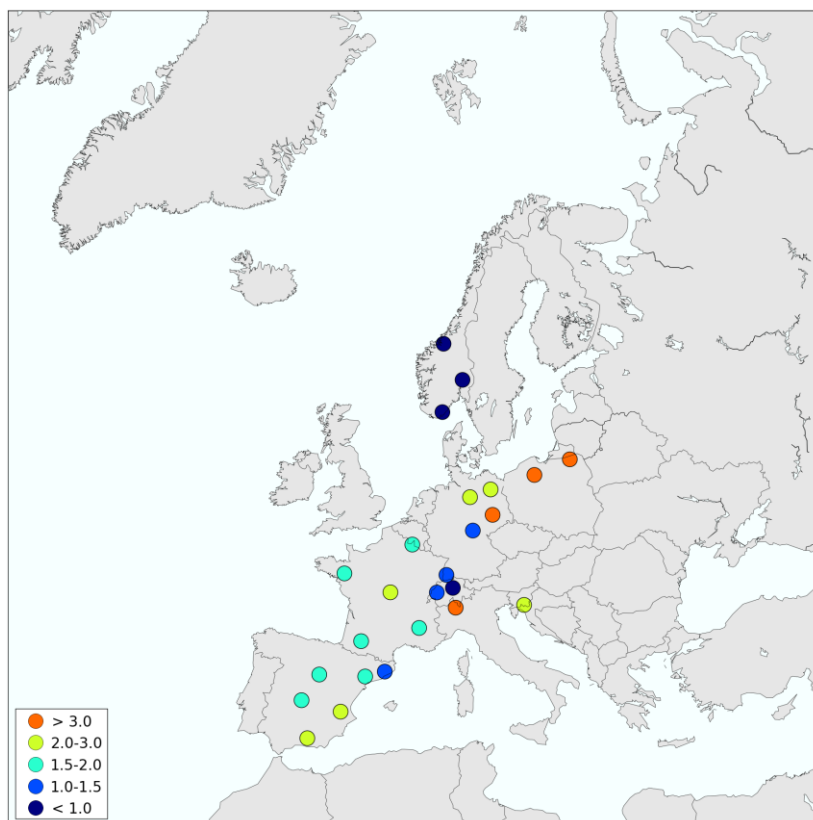


Figure 1.12: Geographical distribution of fOC in PM_{2.5} 2016. Unit: $\mu\text{g}/\text{m}^3$.

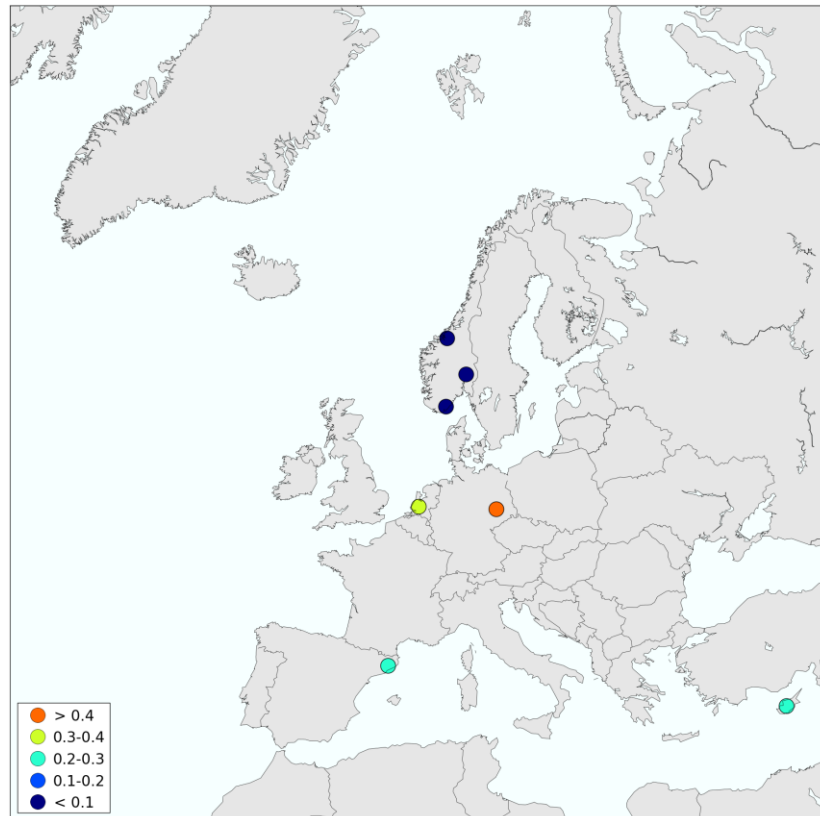


Figure 1.13: Geographical distribution of fEC in PM₁₀ 2016. Unit: $\mu\text{g}/\text{m}^3$.

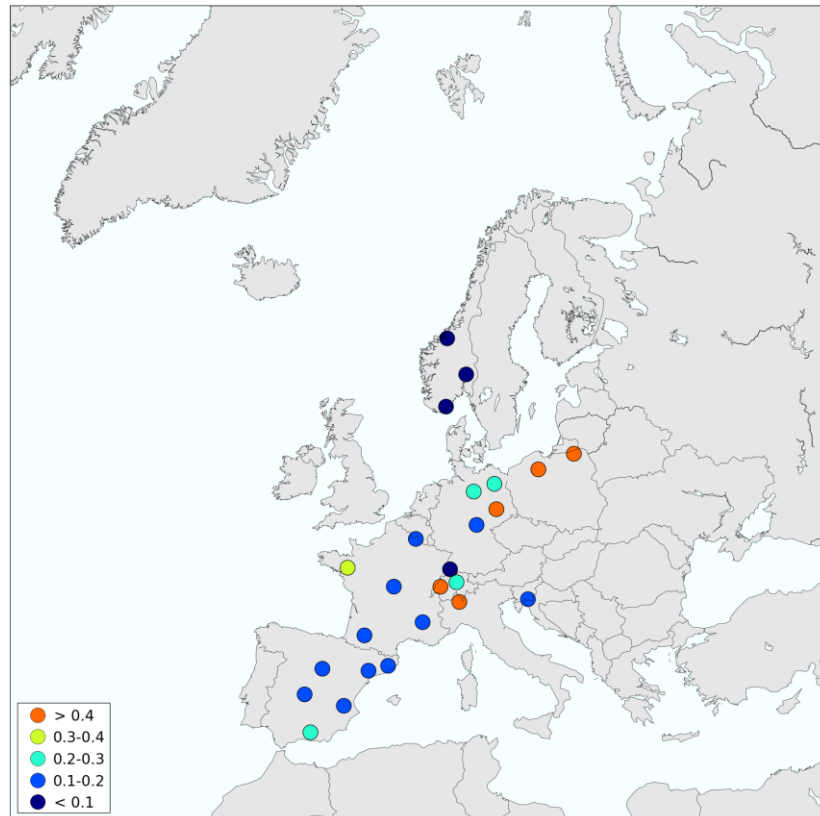


Figure 1.14: Geographical distribution of fEC in PM_{2.5} 2016. Unit: $\mu\text{g}/\text{m}^3$.

Annex 2

Annual statistics on precipitation data

AM0001R Amberd
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	3.89	0.31	35.31	1332.4	100.0	0	62
Cl-	precip	1.07	0.09	4.82	367.1	92.0	0	59
K+	precip	0.67	0.04	3.22	230.5	93.1	0	59
Mg++	precip	0.30	0.04	3.16	103.0	100.0	0	62
NH4+	precip	0.66	0.06	1.90	224.7	100.0	0	62
NO3-	precip	0.60	0.04	2.36	205.3	100.0	0	62
Na+	precip	0.54	0.00	1.93	183.4	90.0	0	59
Precip off	precip	-	0.00	19.70	342.1	73.7	0	122
SO4--	precip	1.11	0.09	3.58	378.4	100.0	0	62
SO4-- corr	precip	1.04	-0.05	3.27	356.4	100.0	0	62
cond	precip	36.42	7.40	235.00	12459.4	100.0	0	62
pH	precip	6.43	5.17	8.14	126.1	100.0	0	62

BE0014R Koksijde
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.30	0.13	0.86	222.4	98.3	0	25
Cl-	precip	4.10	1.62	9.58	874.2	100.0	0	8
Cl-	precip	4.73	0.26	28.00	2488.9	99.8	0	18
K+	precip	0.12	0.02	0.68	87.7	98.3	0	25
Mg++	precip	0.31	0.04	1.85	231.3	98.3	0	25
NH4+	precip	0.43	0.08	1.91	319.0	99.9	0	26
NO3-	precip	0.27	0.11	0.57	200.5	99.9	0	26
Na+	precip	2.55	0.15	15.03	1885.1	98.3	0	25
Precip	precip	-	1.00	83.20	525.8	71.9	0	19
Precip	precip	-	1.00	83.20	739.1	100.0	0	27
Precip	precip	-	4.53	67.05	213.3	28.1	0	8
Precip off	precip	-	1.00	83.40	758.2	100.0	0	27
SO4--	precip	0.41	0.13	1.03	216.6	99.8	1	18
SO4--	precip	0.42	0.28	0.83	90.1	62.5	0	6
SO4-- corr	precip	0.19	-0.22	0.47	98.9	99.8	1	18
SO4-- corr	precip	0.29	0.21	0.41	61.3	62.5	0	6
cond	precip	20.63	9.00	44.00	4400.0	100.0	0	8
cond	precip	28.38	7.20	116.00	14919.9	99.8	0	18
pH	precip	5.48	4.90	6.50	1739.5	99.8	0	18
pH	precip	5.59	5.00	6.50	550.6	100.0	0	8

BY0004R Vysokoe
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.78	0.17	5.78	1477.1	52.5	0	64
Cl-	precip	1.26	0.00	3.67	1040.4	43.3	0	34
K+	precip	0.48	0.10	2.06	401.6	52.5	0	64
Mg++	precip	0.32	0.09	1.12	263.9	52.4	0	63
NH4+	precip	0.75	0.09	2.73	623.9	68.9	0	84
NO3-	precip	0.37	0.09	2.28	310.3	72.2	0	90
Na+	precip	0.88	0.12	3.18	732.3	52.5	0	65
Precip	precip	-	0.00	40.90	828.6	100.0	0	367
SO4--	precip	0.79	0.00	2.44	655.7	72.8	0	87
SO4-- corr	precip	0.69	-0.21	2.33	574.6	61.4	0	62
cond	precip	31.63	15.00	61.00	26209.7	61.5	0	72
pH	precip	6.43	5.00	7.10	309.7	67.9	0	84

CH0002R Payerne
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.25	0.03	2.67	259.8	99.8	0	40
Cl-	precip	0.13	0.03	0.91	137.9	99.8	0	40
K+	precip	0.04	0.01	0.15	38.8	99.8	0	40
Mg++	precip	0.02	0.00	0.18	25.3	99.8	0	40
NH4+	precip	0.33	0.10	1.24	353.3	99.8	0	40
NO3-	precip	0.22	0.07	1.03	227.4	99.8	0	40
Na+	precip	0.08	0.01	0.51	81.7	99.8	0	40
Precip	precip	-	0.00	78.40	1056.5	100.0	0	53
SO4--	precip	0.13	0.03	0.42	132.6	99.8	0	40
SO4-- corr	precip	0.12	0.03	0.41	125.7	99.8	0	40
cond	precip	6.17	2.53	22.24	6520.9	99.9	0	41
pH	precip	5.79	4.96	7.08	1707.9	99.9	0	41

CH0004R Chaumont
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.26	0.03	4.69	300.3	99.9	0	37
Cl-	precip	0.14	0.02	0.85	159.2	99.9	0	37
K+	precip	0.04	0.01	1.70	40.7	99.9	0	37
Mg++	precip	0.03	0.00	0.44	29.2	99.9	0	37
NH4+	precip	0.23	0.04	2.53	259.7	99.9	0	37
NO3-	precip	0.18	0.05	0.73	205.4	99.9	0	37
Na+	precip	0.09	0.01	0.54	97.7	99.9	0	37
Precip	precip	-	0.00	90.70	1148.6	92.3	0	49
SO4--	precip	0.11	0.03	0.89	127.3	99.9	0	37
SO4-- corr	precip	0.10	0.02	0.84	119.1	99.9	0	37
cond	precip	5.79	2.34	40.26	6655.0	99.9	0	38
pH	precip	5.52	4.99	7.34	3491.6	99.9	0	38

CH0005R Rigi
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.00	0.67	192.6	100.0	0	49
Cl-	precip	0.07	0.01	0.43	108.9	100.0	0	49
K+	precip	0.03	0.00	0.24	40.6	100.0	0	49
Mg++	precip	0.01	0.00	0.06	19.2	100.0	0	49
NH4+	precip	0.35	0.04	2.53	537.1	100.0	0	49
NO3-	precip	0.22	0.03	1.71	334.3	100.0	0	49
Na+	precip	0.04	0.00	0.30	63.3	100.0	0	49
Precip	precip	-	0.00	162.30	1551.3	100.0	0	53
SO4--	precip	0.12	0.02	0.68	178.7	100.0	0	49
SO4-- corr	precip	0.11	0.02	0.67	173.3	100.0	0	49
cond	precip	5.69	1.82	29.44	8831.6	100.0	0	49
pH	precip	5.62	4.81	6.59	3724.9	100.0	0	49

CZ0001R Svratouch
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.45	0.04	9.46	285.2	96.3	0	40
Cl-	precip	0.20	0.05	3.12	123.8	96.3	0	40
K+	precip	0.06	0.00	0.75	35.4	96.3	1	40
Mg++	precip	0.04	0.01	0.67	25.6	96.3	0	40
NH4+	precip	0.71	0.21	2.93	445.2	96.3	0	40
NO3-	precip	0.45	0.19	1.63	280.9	96.3	0	40
Na+	precip	0.10	0.01	1.98	65.5	96.3	1	40
Precip	precip	-	0.00	59.70	628.8	100.0	0	53
SO4--	precip	0.42	0.13	2.08	264.7	96.3	0	40
SO4-- corr	precip	0.41	0.12	2.07	258.7	96.3	0	40
cond	precip	17.88	7.50	127.10	11244.2	96.3	0	40
pH	precip	4.95	3.71	6.40	7045.0	96.3	0	40

CZ0003R Kosetice (NOAK)
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.01	2.28	123.0	80.0	2	68
Cl-	precip	0.23	0.03	4.10	138.9	80.0	0	68
K+	precip	0.04	0.00	0.31	25.2	80.0	2	68
Mg++	precip	0.03	0.00	0.29	15.6	80.0	1	68
NH4+	precip	0.54	0.07	1.81	321.9	80.0	0	68
NO3-	precip	0.32	0.00	0.88	194.0	80.0	1	68
Na+	precip	0.12	0.01	2.45	73.8	80.0	3	68
Precip	precip	-	0.00	28.70	601.5	100.0	0	367
SO4--	precip	0.27	0.03	0.97	160.0	80.0	0	68
SO4-- corr	precip	0.26	0.02	0.97	153.5	80.0	0	68
cond	precip	12.03	4.16	34.50	7232.7	79.3	0	67
pH	precip	5.35	4.50	6.37	2705.0	79.3	0	67

CZ0005R Churanov
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.01	0.88	133.3	98.0	5	49
Cl-	precip	0.17	0.00	0.98	182.8	98.0	1	49
K+	precip	0.05	0.01	0.44	55.5	98.0	0	49
Mg++	precip	0.02	0.00	0.08	16.9	98.0	1	49
NH4+	precip	0.43	0.08	1.33	466.6	98.0	0	49
NO3-	precip	0.32	0.13	0.82	344.1	98.0	0	49
Na+	precip	0.06	0.01	0.57	69.7	98.0	3	49
Precip	precip	-	0.00	82.50	1090.4	100.0	0	53
SO4--	precip	0.23	0.06	1.06	249.0	98.0	0	49
SO4-- corr	precip	0.22	0.06	1.05	242.5	98.0	0	49
cond	precip	10.51	4.48	29.60	11458.6	98.0	0	49
pH	precip	5.27	4.52	6.26	5873.9	98.0	0	49

DE0001R Westerland
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.08	1.93	158.9	99.0	0	46
Cl-	precip	8.26	0.57	32.71	4810.5	99.0	0	46
K+	precip	0.19	0.02	0.65	111.4	99.0	0	46
Mg++	precip	0.56	0.05	2.21	324.0	99.0	0	46
NH4+	precip	0.57	0.21	2.44	330.1	99.0	0	46
NO3-	precip	0.44	0.16	1.77	255.7	99.0	0	46
Na+	precip	4.64	0.25	18.31	2706.0	99.0	0	46
Precip	precip	-	0.00	40.47	582.7	100.0	0	53
SO4--	precip	0.58	0.14	1.69	336.7	99.0	0	46
SO4-- corr	precip	0.19	0.03	0.84	110.2	99.0	0	46
cond	precip	40.91	9.70	135.70	23837.4	99.0	0	46
pH	precip	5.29	4.58	6.55	2965.6	99.0	0	46

DE0002R Waldhof
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	1.30	55.1	97.5	1	122
Cl-	precip	0.44	0.01	8.03	230.1	97.5	2	122
K+	precip	0.05	0.00	0.78	27.0	97.5	6	122
Mg++	precip	0.04	0.00	0.54	22.0	97.5	11	122
NH4+	precip	0.64	0.05	2.78	339.7	97.5	0	122
NO3-	precip	0.43	0.07	2.09	228.2	97.5	0	122
Na+	precip	0.25	0.00	4.76	131.7	97.5	1	122
Precip	precip	-	0.00	20.90	528.9	100.0	0	367
SO4--	precip	0.26	0.03	1.40	136.8	97.5	0	122
SO4-- corr	precip	0.24	0.03	1.38	125.7	97.5	0	122
cond	precip	11.93	3.40	49.00	6312.7	97.5	0	122
pH	precip	5.19	4.32	6.82	3402.8	97.5	0	122

DE0003R Schauinsland
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.00	2.49	164.7	99.7	14	153
Cl-	precip	0.19	0.01	2.56	329.8	99.7	0	153
K+	precip	0.03	0.00	0.30	53.7	99.7	18	153
Mg++	precip	0.02	0.00	0.18	38.2	99.7	27	153
NH4+	precip	0.23	0.00	1.86	396.0	99.7	3	153
NO3-	precip	0.20	0.02	1.31	339.3	99.7	0	153
Na+	precip	0.12	0.01	1.43	210.2	99.7	0	153
Precip	precip	-	0.00	77.60	1706.7	97.3	0	357
SO4--	precip	0.12	0.00	0.87	211.8	99.7	4	153
SO4-- corr	precip	0.11	0.00	0.83	195.5	99.7	4	153
cond	precip	6.32	2.50	34.00	10790.5	99.7	0	153
pH	precip	5.32	4.30	6.77	8122.4	99.7	0	153

DE0007R Neuglobsow
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.04	1.58	75.6	97.6	0	124
Cl-	precip	0.53	0.03	7.02	250.3	97.6	0	124
K+	precip	0.07	0.00	0.59	31.6	97.6	1	124
Mg++	precip	0.05	0.00	0.50	23.5	97.6	2	124
NH4+	precip	0.56	0.01	2.95	263.8	97.6	0	124
NO3-	precip	0.40	0.09	1.88	188.3	97.6	0	124
Na+	precip	0.30	0.00	4.48	144.1	97.6	2	124
Precip	precip	-	0.00	17.30	472.8	100.0	0	367
SO4--	precip	0.27	0.04	1.92	126.8	97.6	0	124
SO4-- corr	precip	0.24	0.03	1.89	114.8	97.6	0	124
cond	precip	12.02	3.65	59.90	5681.5	97.6	0	124
pH	precip	5.21	4.28	6.67	2930.1	97.6	0	124

DE0008R SchmÅtcke
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.08	0.01	0.78	89.4	99.9	6	47
Cl-	precip	0.19	0.04	1.22	210.1	99.9	0	47
K+	precip	0.04	0.02	0.18	44.6	99.9	0	47
Mg++	precip	0.03	0.00	0.13	28.6	99.9	2	47
NH4+	precip	0.40	0.09	2.08	441.1	99.9	0	47
NO3-	precip	0.35	0.15	1.01	378.7	99.9	0	47
Na+	precip	0.12	0.00	0.75	126.8	99.9	1	47
Precip	precip	-	0.00	73.90	1089.7	100.0	0	53
SO4--	precip	0.22	0.07	0.75	237.4	99.9	0	47
SO4-- corr	precip	0.21	0.06	0.73	227.0	99.9	0	47
cond	precip	9.71	5.00	23.50	10575.5	99.9	0	47
pH	precip	5.10	4.69	6.32	8751.0	99.9	0	47

DE0009R Zingst
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.14	0.01	1.17	58.2	97.3	3	40
Cl-	precip	1.44	0.16	10.80	611.2	97.3	0	40
K+	precip	0.08	0.03	1.13	35.8	97.3	0	40
Mg++	precip	0.11	0.02	0.77	45.3	97.3	0	40
NH4+	precip	0.64	0.18	2.86	271.8	97.3	0	40
NO3-	precip	0.47	0.22	1.41	202.0	97.3	0	40
Na+	precip	0.86	0.10	5.72	367.8	97.3	0	40
Precip	precip	-	0.00	45.45	425.4	100.0	0	53
SO4--	precip	0.31	0.12	1.19	133.0	97.3	0	40
SO4-- corr	precip	0.24	0.08	0.71	103.1	97.3	0	40
cond	precip	15.96	7.85	43.70	6789.1	96.8	0	39
pH	precip	5.26	4.49	6.70	2344.1	96.8	0	39

DK0005R Keldsnor
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.04	0.47	98.4	95.8	2	21
Cl-	precip	2.60	0.36	14.69	1239.6	92.0	0	21
K+	precip	0.19	0.01	0.71	90.2	95.5	1	20
Mg++	precip	0.20	0.03	0.97	94.2	98.4	3	21
NH4+	precip	0.59	0.22	1.57	280.6	92.0	0	21
NO3-	precip	0.44	0.16	0.85	208.9	92.0	0	21
Precip	precip	-	0.00	57.58	477.0	99.2	0	24
SO4--	precip	0.33	0.11	0.78	156.8	92.0	0	21
SO4-- corr	precip	0.21	0.07	0.48	98.9	92.0	0	21

DK0008R Anholt
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.04	0.78	63.3	96.6	3	20
Cl-	precip	3.87	0.70	32.44	1636.4	96.6	0	20
K+	precip	0.13	0.01	0.72	54.2	96.6	1	20
Mg++	precip	0.27	0.05	2.25	114.7	93.7	0	19
NH4+	precip	0.33	0.11	1.05	138.2	97.2	0	20
NO3-	precip	0.41	0.15	0.89	173.4	96.6	0	20
Precip	precip	-	2.35	60.72	423.3	86.9	0	21
SO4--	precip	0.37	0.15	1.61	155.3	96.6	0	20
SO4-- corr	precip	0.18	0.03	0.48	77.6	96.6	0	20

DK0012R Risoe
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.04	0.90	100.8	94.6	3	21
Cl-	precip	0.51	0.09	1.54	271.1	69.3	0	18
K+	precip	0.14	0.01	0.71	76.5	94.4	1	21
Mg++	precip	0.10	-0.00	1.07	51.5	95.7	4	22
NH4+	precip	0.51	0.09	1.54	271.1	69.3	0	18
NO3-	precip	0.41	0.12	0.94	216.1	98.8	0	22
Precip	precip	-	1.31	86.02	530.0	99.2	0	24
SO4--	precip	0.28	0.03	0.87	148.0	81.7	1	21
SO4-- corr	precip	0.25	0.02	0.77	133.6	81.7	1	21

DK0022R Sepstrup Sande
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.03	0.56	117.4	96.7	4	22
Cl-	precip	3.12	0.27	25.54	2509.7	98.0	0	22
K+	precip	0.11	0.00	0.54	88.1	96.7	2	22
Mg++	precip	0.21	0.03	1.71	171.8	96.7	3	22
NH4+	precip	0.50	0.20	1.36	401.9	100.0	0	23
NO3-	precip	0.39	0.15	0.95	310.8	96.7	0	22
Precip	precip	-	0.82	66.28	803.6	95.1	0	23
SO4--	precip	0.33	0.18	1.27	263.7	96.7	0	22
SO4-- corr	precip	0.18	0.07	0.44	145.3	96.7	0	22

EE0009R Lahemaa
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.02	4.50	183.8	100.0	9	165
Cl-	precip	0.29	0.05	3.70	301.8	100.0	31	165
K+	precip	0.04	0.01	0.86	42.8	100.0	20	165
Mg++	precip	0.03	0.01	0.34	34.2	100.0	34	165
NH4+	precip	0.10	0.01	2.90	103.8	100.0	24	165
NO3-	precip	0.17	0.01	1.70	176.3	100.0	15	165
Na+	precip	0.20	0.01	2.90	206.6	100.0	3	165
Precip	precip	-	0.00	53.50	1032.8	99.8	1	366
SO4--	precip	0.24	0.03	16.33	246.6	100.0	0	165
SO4-- corr	precip	0.22	0.01	16.32	230.5	100.0	0	165
cond	precip	7.87	1.20	45.50	8126.5	99.9	0	164
pH	precip	4.97	3.97	6.43	11018.2	99.8	0	163

EE0011R Vilsandi
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.40	0.10	3.40	189.2	88.5	0	20
Cl-	precip	0.92	0.15	2.70	439.3	88.5	0	20
K+	precip	0.14	0.04	2.40	68.3	88.5	0	20
Mg++	precip	0.12	0.05	0.73	58.4	88.5	0	20
NH4+	precip	0.36	0.04	4.00	169.6	88.5	0	20
NO3-	precip	0.32	0.06	1.50	152.4	88.5	0	20
Na+	precip	0.56	0.08	1.50	265.2	88.5	0	20
Precip	precip	-	0.00	79.90	475.8	100.0	0	53
SO4--	precip	0.28	0.13	1.37	132.2	88.5	0	20
SO4-- corr	precip	0.23	0.09	1.25	109.8	88.5	0	20
cond	precip	12.66	7.00	55.00	6023.2	88.5	0	20
pH	precip	5.18	4.54	6.36	3154.0	88.5	0	20

ES0001R San Pablo de los Montes
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.28	0.02	8.18	207.0	99.1	6	82
Cl-	precip	0.33	0.15	2.50	251.1	99.5	33	86
K+	precip	0.08	0.03	1.40	57.6	99.1	35	82
Mg++	precip	0.04	0.01	0.60	29.1	99.1	5	82
NH4+	precip	0.18	0.02	2.35	135.5	99.4	14	85
NO3-	precip	0.11	0.04	1.24	86.1	99.5	32	86
Na+	precip	0.18	0.05	1.49	138.4	99.1	22	82
Precip	precip	-	0.00	34.80	751.0	100.0	0	367
SO4--	precip	0.14	0.04	1.57	103.0	99.5	20	86
SO4-- corr	precip	0.12	0.01	1.48	90.7	99.5	20	86
cond	precip	6.04	1.90	53.90	4536.4	100.0	0	96
pH	precip	5.44	3.77	6.93	2706.4	100.0	0	96

ES0005R Noya
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.02	2.11	410.0	98.8	7	129
Cl-	precip	4.32	0.16	46.77	8276.2	99.1	1	134
K+	precip	0.13	0.03	2.06	243.9	98.8	20	129
Mg++	precip	0.34	0.03	1.90	652.5	98.8	0	129
NH4+	precip	0.09	0.02	5.19	177.9	99.4	37	133
NO3-	precip	0.09	0.04	1.98	180.6	99.1	44	134
Na+	precip	2.89	0.14	17.10	5543.8	98.8	0	129
Precip	precip	-	0.00	84.60	1915.1	100.0	0	367
SO4--	precip	0.37	0.04	3.39	706.2	99.1	2	134
SO4-- corr	precip	0.13	-0.30	2.99	239.7	99.1	2	134
cond	precip	22.61	2.70	219.30	43294.3	99.6	0	136
pH	precip	5.15	4.32	7.99	13691.1	99.6	0	136

ES0006R Mahã'n
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.50	0.59	23.01	738.9	99.0	0	37
Cl-	precip	14.84	1.09	124.65	4379.1	100.0	0	40
K+	precip	0.49	0.05	6.90	144.1	99.0	0	37
Mg++	precip	1.26	0.17	10.05	371.1	99.0	0	37
NH4+	precip	0.21	0.02	1.51	62.2	100.0	2	40
NO3-	precip	0.45	0.09	3.80	131.8	100.0	0	40
Na+	precip	9.56	0.66	64.80	2819.9	99.0	0	37
Precip	precip	-	0.00	48.80	295.1	100.0	0	367
SO4--	precip	1.09	0.36	10.10	320.7	100.0	0	40
SO4-- corr	precip	0.29	-0.34	4.68	84.6	100.0	0	40
cond	precip	72.14	11.30	518.00	21291.1	100.0	0	40
pH	precip	6.04	5.62	7.25	268.3	100.0	0	40

ES0007R VĀ-znar
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.03	0.27	15.23	668.9	98.3	0	64
Cl-	precip	0.46	0.15	4.51	301.9	99.4	19	71
K+	precip	0.11	0.03	0.82	74.7	98.3	9	64
Mg++	precip	0.18	0.05	1.65	115.1	98.3	0	64
NH4+	precip	0.37	0.02	1.91	237.7	99.2	1	70
NO3-	precip	0.19	0.04	3.03	123.5	99.4	5	71
Na+	precip	0.23	0.05	2.17	150.6	98.3	11	64
Precip	precip	-	0.00	53.60	650.7	100.0	0	367
SO4--	precip	0.23	0.04	3.66	146.9	99.4	5	71
SO4-- corr	precip	0.20	0.03	3.48	131.0	99.4	5	71
cond	precip	12.40	5.10	134.20	8067.6	100.0	0	79
pH	precip	6.24	5.86	7.31	377.2	100.0	0	79

ES0008R Niembro
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.41	0.02	7.40	448.2	99.9	2	137
Cl-	precip	5.49	0.35	58.68	5980.0	100.0	0	140
K+	precip	0.13	0.03	0.95	143.5	99.9	24	137
Mg++	precip	0.45	0.03	3.40	492.5	99.9	0	137
NH4+	precip	0.23	0.02	6.49	250.6	100.0	7	140
NO3-	precip	0.54	0.04	94.71	585.8	100.0	6	140
Na+	precip	3.49	0.16	27.50	3799.1	99.9	0	137
Precip	precip	-	0.00	49.79	1088.6	100.0	0	367
SO4--	precip	0.47	0.04	2.94	512.1	100.0	3	140
SO4-- corr	precip	0.18	-0.26	2.29	195.0	100.0	3	140
cond	precip	35.64	3.50	1734.20	38797.7	100.0	0	140
pH	precip	4.55	2.20	6.57	30716.0	100.0	0	140

ES0009R Campisabalos
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.87	0.10	11.60	336.3	99.3	0	84
Cl-	precip	0.31	0.15	1.66	120.4	99.9	38	90
K+	precip	0.08	0.03	2.70	30.9	99.3	49	84
Mg++	precip	0.07	0.01	0.74	28.9	99.3	2	84
NH4+	precip	0.32	0.02	7.93	125.1	99.7	4	87
NO3-	precip	0.24	0.04	1.82	91.7	99.9	6	90
Na+	precip	0.15	0.05	0.97	59.2	99.3	26	84
Precip	precip	-	0.00	20.00	388.5	100.0	0	367
SO4--	precip	0.16	0.04	1.42	63.8	99.9	33	90
SO4-- corr	precip	0.15	0.02	1.35	58.8	99.9	33	90
cond	precip	9.76	2.20	87.50	3789.9	100.0	0	92
pH	precip	5.81	4.25	7.73	606.0	100.0	0	92

ES0011R Barcarrota
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.02	2.17	168.8	100.0	1	70
Cl-	precip	0.89	0.15	9.19	558.6	100.0	6	70
K+	precip	0.06	0.03	0.37	36.6	100.0	30	70
Mg++	precip	0.08	0.02	0.47	50.0	100.0	0	70
NH4+	precip	0.11	0.02	0.79	66.9	100.0	9	70
NO3-	precip	0.12	0.04	9.07	77.2	100.0	24	70
Na+	precip	0.55	0.05	7.00	345.7	100.0	3	70
Precip	precip	-	0.00	36.28	630.8	100.0	0	367
SO4--	precip	0.15	0.04	0.60	97.6	100.0	9	70
SO4-- corr	precip	0.11	0.00	0.50	69.8	100.0	9	70
cond	precip	7.40	2.90	42.50	4670.6	100.0	0	70
pH	precip	5.50	5.08	6.27	1975.9	100.0	0	70

ES0012R Zarra
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.19	0.02	12.60	577.8	99.4	1	68
Cl-	precip	0.70	0.15	7.81	340.4	99.7	20	72
K+	precip	0.07	0.03	0.70	34.0	99.4	19	68
Mg++	precip	0.13	0.03	0.94	61.3	99.4	0	68
NH4+	precip	0.38	0.02	3.24	183.2	99.6	4	70
NO3-	precip	0.27	0.04	2.38	130.4	99.7	3	72
Na+	precip	0.42	0.05	5.10	204.9	99.4	8	68
Precip	precip	-	0.00	41.13	485.9	100.0	0	367
SO4--	precip	0.26	0.04	1.75	125.7	99.7	8	72
SO4-- corr	precip	0.22	0.03	1.62	107.5	99.7	8	72
cond	precip	13.94	3.60	79.70	6772.8	100.0	0	78
pH	precip	5.82	4.94	8.33	730.7	100.0	0	78

ES0013R Penausende
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.32	0.02	7.60	216.3	99.7	3	103
Cl-	precip	0.48	0.15	6.57	328.3	99.9	24	107
K+	precip	0.15	0.03	6.71	103.4	99.7	34	103
Mg++	precip	0.07	0.01	1.70	46.6	99.7	1	103
NH4+	precip	0.30	0.02	4.95	203.6	99.8	7	105
NO3-	precip	0.10	0.04	3.44	70.0	99.9	46	107
Na+	precip	0.27	0.05	4.30	185.0	99.7	16	103
Precip	precip	-	0.00	45.12	681.6	100.0	0	367
SO4--	precip	0.11	0.04	2.63	76.1	99.9	41	107
SO4-- corr	precip	0.09	0.00	2.47	60.5	99.9	41	107
cond	precip	7.70	1.40	106.00	5251.8	100.0	0	110
pH	precip	5.68	5.14	7.00	1431.4	100.0	0	110

ES0014R Els Torms
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.68	0.25	16.30	976.7	99.7	0	44
Cl-	precip	0.70	0.15	6.50	255.3	100.0	12	46
K+	precip	0.10	0.03	0.57	36.0	99.7	11	44
Mg++	precip	0.15	0.03	0.90	53.1	99.7	0	44
NH4+	precip	0.43	0.10	1.86	158.0	99.8	0	45
NO3-	precip	0.32	0.07	3.60	117.4	100.0	0	46
Na+	precip	0.42	0.05	2.30	155.0	99.7	6	44
Precip	precip	-	0.00	64.65	365.0	100.0	0	367
SO4--	precip	0.38	0.04	19.35	138.9	100.0	5	46
SO4-- corr	precip	0.35	0.03	19.05	126.2	100.0	5	46
cond	precip	18.55	4.20	297.70	6768.9	100.0	0	46
pH	precip	6.19	5.58	8.45	235.7	100.0	0	46

ES0016R O Saviãtao
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.05	3.42	444.4	99.4	9	122
Cl-	precip	1.29	0.15	10.22	2672.2	99.8	16	131
K+	precip	0.15	0.03	4.55	308.8	99.4	29	122
Mg++	precip	0.11	0.02	1.31	233.9	99.4	0	122
NH4+	precip	0.31	0.02	5.09	645.5	99.6	11	126
NO3-	precip	0.12	0.04	2.32	240.7	99.8	48	131
Na+	precip	0.78	0.05	5.60	1626.8	99.4	7	122
Precip	precip	-	0.00	69.20	2076.8	100.0	0	367
SO4--	precip	0.18	0.04	2.49	382.4	99.8	20	131
SO4-- corr	precip	0.12	-0.04	2.19	246.7	99.8	20	131
cond	precip	10.67	2.30	95.60	22159.1	100.0	0	139
pH	precip	5.41	4.74	6.77	8068.6	100.0	0	139

ES0017R Doãtana
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.35	0.05	3.94	180.6	98.4	1	53
Cl-	precip	2.89	0.40	17.34	1496.4	99.2	0	58
K+	precip	0.07	0.03	0.35	36.4	98.4	16	53
Mg++	precip	0.21	0.03	1.20	110.7	98.4	0	53
NH4+	precip	0.12	0.02	1.91	62.0	98.6	22	54
NO3-	precip	0.11	0.04	2.00	54.6	99.2	25	58
Na+	precip	1.84	0.22	10.40	952.7	98.4	0	53
Precip	precip	-	0.00	48.00	517.3	100.0	0	367
SO4--	precip	0.29	0.04	1.58	148.3	99.2	2	58
SO4-- corr	precip	0.14	-0.01	1.46	72.0	99.2	2	58
cond	precip	16.28	4.00	109.60	8421.1	100.0	0	66
pH	precip	5.35	4.69	7.63	2295.2	100.0	0	66

FI0004R ã,htãvri
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.06	0.01	0.35	37.3	99.6	0	42
Cl-	precip	0.18	0.04	2.59	108.6	99.6	0	42
K+	precip	0.07	0.00	0.46	42.3	92.6	0	40
Mg++	precip	0.02	0.01	0.18	12.7	99.6	0	42
NH4+	precip	0.10	0.01	0.60	56.8	99.6	0	42
NO3-	precip	0.15	0.01	0.75	90.5	99.6	0	42
Na+	precip	0.11	0.01	1.71	64.7	99.6	0	42
Precip	precip	-	0.00	42.10	590.3	100.0	0	53
SO4--	precip	0.13	0.04	0.96	78.5	99.6	0	42
SO4-- corr	precip	0.12	0.04	0.93	73.1	99.6	0	42
cond	precip	7.39	3.59	43.40	4361.3	99.6	0	42
pH	precip	4.91	4.10	5.63	7304.9	91.4	0	39

FI0018R Virolahti III
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.02	1.23	114.4	99.4	0	43
Cl-	precip	0.41	0.03	4.72	286.6	99.4	0	43
K+	precip	0.05	0.01	0.55	38.0	99.4	0	43
Mg++	precip	0.04	0.00	0.36	29.5	99.4	0	43
NH4+	precip	0.23	0.01	1.61	162.1	99.4	0	43
NO3-	precip	0.28	0.05	2.09	196.1	99.4	0	43
Na+	precip	0.24	0.03	3.12	167.9	99.4	0	43
Precip	precip	-	0.00	60.70	700.0	100.0	0	54
SO4--	precip	0.29	0.07	0.91	200.4	99.4	0	43
SO4-- corr	precip	0.27	0.07	0.89	186.3	99.4	0	43
cond	precip	11.94	3.95	48.50	8361.1	99.4	0	43
pH	precip	4.82	4.26	5.86	10615.5	99.4	0	43

FI0022R Oulanka
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.04	0.01	0.31	21.4	100.0	0	51
Cl-	precip	0.10	0.03	0.90	60.7	100.0	0	51
K+	precip	0.03	0.00	0.60	15.0	100.0	0	51
Mg++	precip	0.01	0.00	0.08	6.8	100.0	0	51
NH4+	precip	0.07	0.01	1.75	43.6	100.0	0	51
NO3-	precip	0.11	0.03	1.28	68.6	100.0	0	51
Na+	precip	0.06	0.01	0.58	34.1	100.0	0	51
Precip	precip	-	0.00	47.10	603.0	100.0	0	53
SO4--	precip	0.14	0.04	1.92	86.2	100.0	0	51
SO4-- corr	precip	0.14	0.03	1.89	83.3	100.0	0	51
cond	precip	7.52	3.55	56.40	4532.9	100.0	0	51
pH	precip	4.85	4.12	5.12	8584.3	100.0	0	51

FI0036R Pallas (Matorova)
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.03	0.01	0.33	20.9	100.0	0	49
Cl-	precip	0.10	0.03	1.29	82.8	100.0	0	49
K+	precip	0.02	0.00	0.31	16.0	100.0	0	49
Mg++	precip	0.01	0.00	0.10	7.9	100.0	0	49
NH4+	precip	0.05	0.00	0.36	39.9	99.9	0	48
NO3-	precip	0.09	0.03	0.35	70.2	100.0	0	49
Na+	precip	0.06	0.01	0.82	51.1	100.0	0	49
Precip	precip	-	0.00	87.50	811.5	99.9	0	53
SO4--	precip	0.11	0.03	0.56	89.9	100.0	0	49
SO4-- corr	precip	0.11	0.02	0.55	85.8	100.0	0	49
cond	precip	6.26	3.52	23.90	5076.5	100.0	0	49
pH	precip	4.92	4.34	5.25	9855.4	100.0	0	49

FR0008R Donon
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.01	3.70	202.5	96.5	10	172
Cl-	precip	0.29	0.03	4.68	458.5	96.5	26	172
K+	precip	0.04	0.01	1.08	66.4	96.5	32	172
Mg++	precip	0.03	0.01	0.32	43.4	96.5	81	172
NH4+	precip	0.25	0.01	4.30	406.8	96.5	6	172
NO3-	precip	0.23	0.03	3.48	362.8	96.5	0	172
Na+	precip	0.18	0.01	2.75	286.0	96.5	18	172
Precip	precip	-	0.00	41.00	1604.9	100.0	5	367
SO4--	precip	0.13	0.01	1.68	201.7	96.5	4	172
SO4-- corr	precip	0.11	0.00	1.64	178.1	96.5	4	172
pH	precip	5.40	4.14	7.84	6397.4	97.0	0	180

FR0009R Revin
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.01	1.17	165.6	90.1	1	159
Cl-	precip	0.66	0.03	19.73	687.1	90.1	9	159
K+	precip	0.06	0.01	1.65	65.2	90.1	18	159
Mg++	precip	0.05	0.01	1.28	53.0	90.1	34	159
NH4+	precip	0.44	0.01	2.50	458.6	90.1	1	159
NO3-	precip	0.31	0.02	1.95	318.5	90.1	0	159
Na+	precip	0.39	0.01	11.44	405.1	90.1	7	159
Precip	precip	-	0.00	45.40	1037.7	100.0	6	367
SO4--	precip	0.20	0.02	1.18	209.9	90.1	0	159
SO4-- corr	precip	0.17	0.01	0.76	177.0	90.1	0	159
pH	precip	5.54	4.53	7.05	2966.1	90.4	0	167

FR0010R Morvan
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.01	8.54	158.6	92.6	7	160
Cl-	precip	0.62	0.03	11.86	735.2	92.6	16	160
K+	precip	0.07	0.01	2.91	78.6	92.6	28	160
Mg++	precip	0.04	0.01	0.76	52.5	92.6	55	160
NH4+	precip	0.23	0.01	2.29	274.4	92.6	6	160
NO3-	precip	0.17	0.01	2.13	196.1	92.6	1	160
Na+	precip	0.37	0.01	6.74	443.1	92.6	10	160
Precip	precip	-	0.00	41.00	1187.7	100.0	4	367
SO4--	precip	0.13	0.01	2.54	149.9	92.6	8	160
SO4-- corr	precip	0.10	-0.12	2.40	113.4	92.6	8	160
pH	precip	5.52	4.48	7.24	3608.5	94.1	0	165

FR0013R Peyrusse Vieille
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.29	0.01	3.52	207.2	91.2	1	128
Cl-	precip	1.67	0.07	20.27	1177.9	91.2	0	128
K+	precip	0.14	0.01	4.59	101.7	91.2	3	128
Mg++	precip	0.13	0.01	1.40	90.1	91.2	4	128
NH4+	precip	0.30	0.01	5.39	212.1	91.2	12	128
NO3-	precip	0.21	0.01	4.82	148.6	91.2	3	128
Na+	precip	0.98	0.04	11.31	689.1	91.2	0	128
Precip	precip	-	0.00	25.40	704.1	100.0	2	367
SO4--	precip	0.24	0.03	1.58	172.3	91.2	0	128
SO4-- corr	precip	0.16	0.01	1.45	114.8	91.2	0	128
pH	precip	5.62	4.81	6.95	1678.0	95.3	0	148

FR0014R Montandon
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.21	0.01	31.83	263.9	96.6	14	162
Cl-	precip	0.18	0.03	4.54	229.5	96.3	30	161
K+	precip	0.03	0.01	1.06	37.5	96.6	57	162
Mg++	precip	0.02	0.01	0.96	29.5	96.6	85	162
NH4+	precip	0.23	0.01	3.97	291.2	96.6	3	162
NO3-	precip	0.19	0.01	3.58	234.9	96.6	1	162
Na+	precip	0.12	0.01	2.20	156.3	96.3	16	161
Precip	precip	-	0.00	43.20	1266.8	100.0	6	367
SO4--	precip	0.11	0.01	3.73	144.3	96.6	8	162
SO4-- corr	precip	0.10	0.01	3.55	132.1	96.6	8	162
pH	precip	5.52	4.31	7.64	3869.1	97.8	0	172

FR0015R La Tardière
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.28	0.03	7.42	240.3	98.6	0	134
Cl-	precip	4.14	0.03	31.35	3510.8	98.6	1	134
K+	precip	0.11	0.01	0.93	94.0	98.6	10	134
Mg++	precip	0.29	0.01	2.06	243.8	98.6	10	134
NH4+	precip	0.35	0.06	4.32	297.9	98.6	0	134
NO3-	precip	0.16	0.02	2.33	136.0	98.6	0	134
Na+	precip	2.33	0.01	17.54	1972.1	98.6	1	134
Precip	precip	-	0.00	34.00	847.7	100.0	11	367
SO4--	precip	0.32	0.03	1.62	274.4	98.6	0	134
SO4-- corr	precip	0.13	-0.03	1.55	109.2	98.6	0	134
pH	precip	5.76	5.14	7.07	1470.8	99.4	0	148

FR0016R Le Casset
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.00	0.01	30.75	940.4	90.5	1	113
Cl-	precip	0.17	0.03	6.47	163.7	90.5	28	113
K+	precip	0.09	0.01	2.82	83.4	90.5	19	113
Mg++	precip	0.05	0.01	1.68	51.3	90.5	39	113
NH4+	precip	0.15	0.01	2.28	137.5	90.5	23	113
NO3-	precip	0.17	0.01	2.12	160.0	90.5	1	113
Na+	precip	0.12	0.01	5.85	112.1	90.5	21	113
Precip	precip	-	0.00	59.20	944.8	100.0	7	367
SO4--	precip	0.19	0.01	9.20	180.1	90.5	12	113
SO4-- corr	precip	0.18	0.01	8.71	170.5	90.5	12	113
pH	precip	5.65	4.86	7.84	2097.3	90.7	0	119

FR0017R Montfranc
 January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.01	8.82	176.2	93.9	9	141
Cl-	precip	0.70	0.03	8.48	914.0	93.9	6	141
K+	precip	0.04	0.01	1.32	52.2	93.9	36	141
Mg++	precip	0.06	0.01	0.64	72.6	93.9	45	141
NH4+	precip	0.20	0.01	2.89	262.8	93.9	8	140
NO3-	precip	0.13	0.01	2.23	169.2	93.9	2	141
Na+	precip	0.41	0.01	4.76	534.5	93.9	5	141
Precip	precip	-	0.00	55.80	1313.8	100.0	4	367
SO4--	precip	0.13	0.01	2.49	169.2	93.9	3	141
SO4-- corr	precip	0.10	0.01	2.30	125.5	93.9	3	141
pH	precip	5.53	4.49	7.22	3886.9	94.1	0	148

FR0018R La Coulonche
 January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.01	8.58	141.7	95.6	1	146
Cl-	precip	1.92	0.03	23.34	1506.4	95.6	1	146
K+	precip	0.08	0.01	7.66	62.4	95.6	6	146
Mg++	precip	0.15	0.01	1.48	118.4	95.6	13	146
NH4+	precip	0.44	0.01	12.69	346.0	95.6	1	145
NO3-	precip	0.19	0.01	2.39	151.5	95.6	1	146
Na+	precip	1.17	0.02	12.98	920.2	95.6	0	146
Precip	precip	-	0.00	21.80	786.0	100.0	4	367
SO4--	precip	0.22	0.02	2.44	176.5	95.6	0	146
SO4-- corr	precip	0.13	-0.45	2.20	99.6	95.6	0	146
pH	precip	5.77	4.41	7.26	1336.8	96.3	0	157

GB0002R Eskdalemuir
 January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.11	0.03	4.34	149.4	78.9	0	20
Cl-	precip	2.91	0.81	12.70	3932.1	78.9	0	20
K+	precip	0.25	0.01	7.22	334.8	78.9	3	20
Mg++	precip	0.19	0.06	0.87	254.0	78.9	0	20
NH4+	precip	1.51	0.08	49.90	2044.0	78.9	0	20
NO3-	precip	0.17	0.05	1.35	226.7	78.9	0	20
Na+	precip	1.70	0.49	8.98	2299.2	78.9	0	20
Precip	precip	-	0.17	125.18	1349.9	100.0	0	27
SO4--	precip	0.33	0.13	3.21	445.5	78.9	0	20
SO4-- corr	precip	0.19	0.04	3.06	255.6	78.9	0	20
cond	precip	24.94	7.64	373.00	33665.2	78.9	0	19
pH	precip	5.43	4.93	7.40	4960.7	78.9	0	20

GB0006R Lough Navar
 January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.03	3.40	250.9	100.0	0	25
Cl-	precip	6.02	0.09	20.40	7659.2	100.0	0	25
K+	precip	0.14	0.01	0.63	180.6	100.0	3	25
Mg++	precip	0.39	0.03	1.36	500.4	100.0	0	25
NH4+	precip	0.20	0.00	1.81	250.1	100.0	1	25
NO3-	precip	0.09	0.01	0.98	110.8	100.0	0	25
Na+	precip	3.42	0.07	11.57	4351.8	100.0	0	25
Precip	precip	-	0.00	121.36	1271.9	100.0	0	26
SO4--	precip	0.36	0.08	0.99	463.9	100.0	0	25
SO4-- corr	precip	0.08	-0.04	0.52	100.8	100.0	0	25
cond	precip	27.91	6.09	81.80	35505.0	100.0	0	25
pH	precip	5.46	4.90	6.69	4419.1	100.0	0	25

GB0013R Yarner Wood
 January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.20	0.10	1.65	163.2	85.9	0	21
Cl-	precip	7.02	0.55	14.86	5803.5	85.9	0	21
K+	precip	0.15	0.01	1.17	126.8	85.9	1	21
Mg++	precip	0.45	0.05	0.97	368.1	85.9	0	21
NH4+	precip	0.18	0.00	2.92	147.3	85.9	1	21
NO3-	precip	0.15	0.05	1.11	121.4	85.9	0	21
Na+	precip	4.02	0.33	8.41	3319.6	85.9	0	21
Precip	precip	-	0.31	183.00	826.6	100.0	0	27
SO4--	precip	0.43	0.10	0.86	356.0	85.9	0	21
SO4-- corr	precip	0.09	0.01	0.62	78.1	85.9	0	21
cond	precip	32.35	6.50	60.90	26742.1	85.3	0	18
pH	precip	5.18	4.49	7.00	5468.0	85.9	0	20

GB0014R High Muffles
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.04	1.93	158.2	93.3	0	23
Cl-	precip	3.02	0.34	15.30	2661.5	93.3	0	23
K+	precip	0.09	0.01	0.65	81.5	93.3	1	23
Mg++	precip	0.19	0.03	1.02	164.6	93.3	0	23
NH4+	precip	0.52	0.26	3.84	460.3	93.3	0	23
NO3-	precip	0.36	0.19	3.59	315.4	93.3	0	23
Na+	precip	1.70	0.15	8.66	1503.4	93.3	0	23
Precip	precip	-	0.00	103.00	881.9	100.0	0	26
SO4--	precip	0.37	0.13	2.02	324.4	93.3	0	23
SO4-- corr	precip	0.22	0.11	1.54	197.8	93.3	0	23
cond	precip	20.04	7.60	80.00	17674.6	93.3	0	22
pH	precip	5.24	4.75	6.43	5064.5	93.3	0	23

GB0015R Strath Vaich Dam
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	4.48	178.8	100.0	1	24
Cl-	precip	6.81	0.34	41.30	7038.0	100.0	0	24
K+	precip	0.14	0.01	2.26	144.0	100.0	1	24
Mg++	precip	0.44	0.04	2.75	454.0	100.0	0	24
NH4+	precip	0.06	0.00	1.92	58.1	100.0	8	24
NO3-	precip	0.07	0.00	0.63	67.3	100.0	2	24
Na+	precip	3.90	0.18	23.30	4032.1	100.0	0	24
Precip	precip	-	1.88	204.57	1034.2	100.0	0	24
SO4--	precip	0.39	0.11	1.96	399.3	100.0	0	24
SO4-- corr	precip	0.06	-0.07	0.33	62.1	100.0	0	24
cond	precip	30.11	5.21	166.00	31143.9	99.8	0	23
pH	precip	5.21	4.77	6.70	6351.0	100.0	0	24

GB0048R Auchencorth Moss
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	-0.00	4.32	76.9	99.9	12	204
Cl-	precip	2.12	0.01	71.41	1640.7	99.9	1	204
K+	precip	0.06	0.01	1.61	49.8	99.9	44	204
Mg++	precip	0.13	0.00	3.43	104.3	99.9	14	204
NH4+	precip	0.25	0.00	4.03	195.1	99.9	4	204
NO3-	precip	0.17	0.00	9.54	129.7	99.9	1	204
Na+	precip	1.22	0.00	41.50	941.3	99.9	2	204
Precip	precip	-	0.00	27.50	773.1	100.0	0	363
SO4--	precip	0.21	0.02	3.46	162.3	99.9	0	204
SO4-- corr	precip	0.11	-0.17	2.77	83.6	99.9	0	204
cond	precip	12.29	2.25	177.20	9501.2	98.5	0	159
pH	precip	5.40	4.70	6.70	3091.2	99.8	0	198

GB1055R Chilbolton Observatory
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	3.96	89.1	99.8	6	145
Cl-	precip	2.32	0.00	42.81	1250.9	99.8	1	145
K+	precip	0.09	0.01	1.73	49.2	99.8	13	145
Mg++	precip	0.14	0.00	2.33	77.8	99.8	4	145
NH4+	precip	0.53	0.00	8.30	284.3	99.8	3	145
NO3-	precip	0.45	0.00	5.14	242.5	99.8	2	145
Na+	precip	1.36	0.00	24.71	734.8	99.8	2	145
Precip	precip	-	0.00	24.60	539.8	96.2	0	352
SO4--	precip	0.29	0.00	3.13	156.4	99.8	1	145
SO4-- corr	precip	0.18	-0.17	2.83	95.0	99.8	1	145
cond	precip	16.35	2.83	164.00	8827.6	98.8	0	113

HU0002R K-pusza
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.57	0.02	12.25	366.8	99.8	2	103
Cl-	precip	1.20	0.52	8.88	768.2	100.0	0	106
K+	precip	0.21	0.02	8.11	131.9	99.8	2	103
Mg++	precip	0.11	0.01	1.58	68.9	99.8	0	103
NH4+	precip	0.47	0.04	6.38	299.6	99.8	0	102
NO3-	precip	0.40	0.07	4.72	255.6	100.0	0	106
Na+	precip	1.22	0.24	7.67	783.3	99.8	0	103
Precip	precip	-	0.00	37.30	641.0	99.8	0	366
Precip off	precip	-	0.00	27.50	621.5	99.5	0	365
SO4--	precip	0.67	0.15	10.14	427.8	100.0	0	106
SO4-- corr	precip	0.60	0.11	9.56	381.8	100.0	0	106
cond	precip	16.14	7.00	73.00	10343.2	99.2	0	93
pH	precip	5.48	4.14	7.24	2113.9	99.2	0	93

HU0003R Farkasfa
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.39	0.01	9.02	331.5	96.8	2	109
Cl-	precip	1.42	0.42	9.82	1220.5	98.7	0	121
K+	precip	0.31	0.01	2.58	263.0	96.8	1	109
Mg++	precip	0.09	0.02	0.59	78.2	96.8	0	109
NH4+	precip	0.35	0.01	3.70	296.4	99.0	8	119
NO3-	precip	0.42	0.07	8.40	359.5	98.7	0	121
Na+	precip	1.46	0.26	9.38	1249.4	96.8	0	109
Precip	precip	-	0.00	81.00	857.2	99.7	0	365
Precip off	precip	-	0.00	74.30	803.9	99.5	0	364
SO4--	precip	0.49	0.10	4.58	417.1	98.7	0	121
SO4-- corr	precip	0.41	0.03	4.48	355.1	98.7	0	121
cond	precip	14.94	7.00	77.00	12809.2	98.1	0	100
pH	precip	5.84	4.33	7.31	1226.4	98.1	0	100

IE0001R Valentia Observatory
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.32	0.03	8.16	624.6	99.3	23	204
Cl-	precip	15.33	0.16	433.25	30033.9	99.3	0	204
K+	precip	0.33	0.03	8.33	652.4	99.3	33	204
Mg++	precip	1.01	0.03	27.53	1977.8	99.3	13	204
NH4+	precip	0.05	0.02	1.71	102.3	99.3	117	204
NO3-	precip	0.05	0.01	1.40	99.0	99.3	42	204
Na+	precip	8.04	0.06	216.49	15744.6	99.3	0	204
Precip	precip	-	0.00	39.80	1959.5	97.8	0	359
Precip off	precip	-	0.00	124.50	1614.0	100.0	0	367
SO4--	precip	0.77	0.02	20.56	1499.8	99.3	0	204
SO4-- corr	precip	0.09	-0.04	2.44	181.5	99.3	0	204
cond	precip	58.92	3.10	1456.00	115449.9	99.3	0	204
pH	precip	5.32	4.52	6.48	9303.0	99.3	0	204

IE0005R Oak Park
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.03	2.04	72.4	95.1	11	107
Cl-	precip	1.61	0.03	27.20	766.2	95.1	1	107
K+	precip	0.05	0.03	0.55	23.1	95.1	65	107
Mg++	precip	0.12	0.03	1.87	58.6	95.1	26	107
NH4+	precip	0.31	0.02	2.91	149.7	95.1	13	107
NO3-	precip	0.16	0.01	2.42	75.5	95.1	4	107
Na+	precip	0.87	0.03	14.80	414.3	95.1	7	107
Precip	precip	-	0.00	21.80	475.8	84.4	0	309
Precip off	precip	-	0.00	24.00	635.7	91.5	0	335
SO4--	precip	0.17	0.01	1.32	81.3	95.1	2	107
SO4-- corr	precip	0.10	-0.01	1.06	46.4	95.1	2	107
cond	precip	11.44	1.90	106.40	5443.8	95.1	0	107
pH	precip	5.70	4.48	6.63	939.5	95.1	0	107

IE0006R Malin Head
January 2016 - December 2016

Component	matrix	W mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.70	0.08	15.03	740.4	98.3	0	206
Cl-	precip	26.47	0.74	762.73	27948.0	98.3	0	206
K+	precip	0.59	0.03	14.96	621.7	98.3	5	206
Mg++	precip	1.77	0.06	46.93	1872.9	98.3	0	206
NH4+	precip	0.21	0.02	5.21	217.4	98.3	76	206
NO3-	precip	0.08	0.01	0.96	81.4	98.3	77	206
Na+	precip	14.13	0.36	368.33	14918.1	98.3	0	206
Precip	precip	-	0.00	24.40	1056.0	98.9	0	363
Precip off	precip	-	0.00	20.60	1066.8	99.6	0	365
SO4--	precip	1.37	0.07	36.28	1446.1	98.3	0	206
SO4-- corr	precip	0.19	-0.42	5.45	197.3	98.3	0	206
cond	precip	101.79	6.10	2500.00	107487.6	98.3	0	206
pH	precip	5.47	4.59	6.78	3607.6	98.3	0	206

IE0009R Johnstown Castle
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.12	0.03	2.94	97.5	98.8	22	138
Cl-	precip	3.63	0.17	46.59	2940.5	98.8	0	138
K+	precip	0.08	0.03	0.97	64.4	98.8	54	138
Mg++	precip	0.24	0.03	3.07	196.8	98.8	26	138
NH4+	precip	0.25	0.02	3.00	205.2	98.8	12	138
NO3-	precip	0.17	0.01	2.59	133.6	98.8	2	138
Na+	precip	1.98	0.10	24.45	1601.8	98.8	0	138
Precip	precip	-	0.00	21.90	809.6	95.6	0	350
Precip off	precip	-	0.00	30.90	994.0	99.2	0	363
SO4--	precip	0.27	0.03	2.34	220.1	98.8	0	138
SO4-- corr	precip	0.11	-0.02	0.89	85.8	98.8	0	138
cond	precip	18.82	3.30	173.80	15233.2	98.8	0	138
pH	precip	5.45	4.40	6.69	2873.2	98.8	0	138

IS0002R Irafoss
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.01	4.64	292.1	97.6	0	159
Cl-	precip	5.05	0.15	61.00	9378.4	97.6	6	159
K+	precip	0.23	0.01	7.42	424.5	97.5	9	157
Mg++	precip	0.35	0.00	4.20	651.5	97.6	0	159
NO3-	precip	0.19	0.00	6.71	358.9	96.3	0	155
Na+	precip	2.99	0.10	34.80	5550.7	97.6	0	159
Precip	precip	-	0.00	82.40	1856.4	100.0	0	367
SO4--	precip	0.33	0.00	6.82	617.0	97.6	0	159
SO4-- corr	precip	0.08	-0.15	6.48	154.7	97.6	0	159
cond	precip	21.99	0.00	284.00	40812.7	94.7	0	122
pH	precip	2.72	0.00	7.78	3538183.2	96.3	0	133

IS0091R Storhofdi
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	2.24	0.45	5.96	3279.9	100.0	0	12
Cl-	precip	106.33	21.96	325.48	155987.4	100.0	0	12
K+	precip	2.74	0.43	7.93	4014.3	100.0	0	12
Mg++	precip	7.11	1.48	20.64	10430.8	100.0	0	12
NH4+	precip	0.78	0.05	2.70	1147.7	100.0	0	12
NO3-	precip	0.11	0.03	0.28	161.4	100.0	0	12
Na+	precip	59.39	12.49	175.45	87122.1	100.0	0	12
Precip	precip	-	16.50	272.80	1466.9	87.7	0	12
Precip off	precip	-	21.50	315.20	1619.5	87.7	0	12
SO4--	precip	4.81	1.02	14.24	7050.7	100.0	0	12
SO4-- corr	precip	-0.17	-0.78	0.36	-242.3	100.0	0	12
cond	precip	386.71	82.40	1000.00	567283.0	100.0	0	12
pH	precip	5.37	4.97	5.94	6280.7	100.0	0	12

IT0004R Ispra
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.58	0.08	21.93	828.2	99.9	0	129
Cl-	precip	0.31	0.06	12.45	449.5	99.9	0	129
K+	precip	0.05	0.01	1.21	71.9	96.8	15	128
Mg++	precip	0.06	0.01	1.26	86.7	99.9	0	129
NH4+	precip	0.81	0.10	10.26	1164.1	99.9	0	129
NO3-	precip	0.47	0.11	6.38	678.9	99.9	0	129
Na+	precip	0.23	0.04	7.66	326.3	63.2	0	86
Precip	precip	-	0.00	99.58	1432.0	100.0	0	367
Precip off	precip	-	0.00	62.58	1091.9	98.3	0	360
SO4--	precip	0.32	0.05	3.89	454.0	99.9	0	129
SO4-- corr	precip	0.29	0.02	3.63	419.4	99.9	0	129
cond	precip	14.14	3.20	160.00	20252.7	62.4	0	68
pH	precip	5.58	4.65	7.45	3756.3	62.6	0	72

LT0015R Preila
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.02	1.82	149.9	99.1	0	89
Cl-	precip	2.18	0.08	22.21	1490.0	99.1	0	89
K+	precip	0.06	0.02	0.47	43.8	99.1	0	89
Mg++	precip	0.15	0.01	1.97	102.0	99.1	0	89
NH4+	precip	0.32	0.04	1.38	218.0	99.1	0	89
NO3-	precip	0.35	0.02	3.31	238.7	99.1	0	89
Na+	precip	1.13	0.04	9.92	775.8	99.1	0	89
Precip	precip	-	0.00	31.90	684.0	100.0	0	367
SO4--	precip	0.30	0.04	1.60	205.9	99.1	0	89
SO4-- corr	precip	0.20	-0.03	1.04	138.5	99.1	0	89
cond	precip	17.44	2.53	121.00	11930.4	99.1	0	89
pH	precip	4.94	4.10	6.28	7890.4	99.1	0	89

LV0010R Rucava
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.02	2.30	140.1	91.1	43	99
Cl-	precip	0.60	0.04	9.55	524.1	84.3	14	81
K+	precip	0.04	0.01	0.27	35.4	91.3	33	100
Mg++	precip	0.06	0.02	0.60	55.0	91.3	67	100
NH4+	precip	0.30	0.02	1.84	264.5	96.9	33	135
NO3-	precip	0.30	0.04	1.75	262.9	86.1	0	82
Na+	precip	0.36	0.04	6.00	316.1	91.3	55	100
Precip off	precip	-	0.00	42.20	873.6	100.0	0	367
Precip off	precip	-	0.00	110.70	869.2	98.9	0	52
SO4--	precip	0.24	0.04	0.75	207.9	86.1	0	82
SO4-- corr	precip	0.21	0.00	0.73	183.5	86.1	0	82
cond	precip	12.20	3.44	71.90	10660.9	96.8	0	134
pH	precip	5.07	4.03	6.96	7480.9	96.9	0	135

NL0091R De Zilk
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.19	0.02	1.55	143.2	95.4	7	116
Cl-	precip	4.53	0.14	62.95	3414.5	98.7	3	141
H+	precip	3.57	-64.50	90.30	2691.0	98.7	62	152
K+	precip	0.14	0.01	2.57	107.9	96.1	17	117
Mg++	precip	0.30	0.01	4.18	226.8	96.1	5	117
NH4+	precip	0.42	0.06	2.33	316.6	97.0	0	128
NO3-	precip	0.32	0.07	1.58	237.8	98.0	0	140
Na+	precip	2.30	0.04	16.43	1732.6	95.4	1	116
Precip	precip	-	0.00	21.94	753.7	100.0	179	366
SO4--	precip	0.39	0.10	1.73	296.0	98.0	0	140
SO4-- corr	precip	0.19	0.01	0.94	146.3	98.0	0	140
cond	precip	26.92	0.00	254.00	20293.3	93.6	68	105
pH	precip	5.16	4.13	6.69	5213.4	99.4	0	153

NO0001R Birkenes
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.15	0.02	1.60	206.4	99.4	0	166
Cl-	precip	2.27	0.03	49.02	3204.1	99.4	0	166
K+	precip	0.12	0.01	1.62	169.5	99.4	4	165
Mg++	precip	0.16	0.01	3.39	231.0	99.4	2	165
NH4+	precip	0.29	0.01	2.50	414.2	99.4	14	165
NO3-	precip	0.35	0.01	4.57	488.6	99.4	9	166
Na+	precip	1.32	0.01	27.99	1866.8	99.4	0	166
Precip	precip	-	0.00	66.20	1413.8	100.0	0	367
SO4--	precip	0.28	0.03	3.34	401.2	99.4	0	166
SO4-- corr	precip	0.17	-0.04	3.32	244.7	99.4	0	166
cond	precip	17.95	3.00	248.00	25377.5	98.3	0	141
pH	precip	4.91	4.15	6.26	17528.0	98.3	0	141

NO0015R Tustervatn
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.01	0.98	90.7	99.5	0	183
Cl-	precip	1.88	0.03	42.67	1936.1	99.5	0	183
K+	precip	0.11	0.01	1.67	117.8	99.4	5	182
Mg++	precip	0.13	0.01	2.96	135.8	99.5	21	183
NH4+	precip	0.09	0.01	2.03	93.3	99.2	7	181
NO3-	precip	0.07	0.01	1.22	72.6	99.5	9	183
Na+	precip	1.06	0.01	24.38	1092.1	99.5	1	183
Precip	precip	-	0.00	31.90	1031.4	100.0	0	367
SO4--	precip	0.14	0.01	1.93	147.0	99.5	0	183
SO4-- corr	precip	0.05	-0.11	1.02	55.0	99.5	0	183
cond	precip	10.42	2.00	164.00	10748.1	96.9	0	144
pH	precip	5.24	4.33	6.26	5914.3	96.6	0	142

NO0039R Kärvatn
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	1.04	157.8	96.8	1	147
Cl-	precip	2.29	0.03	31.36	3524.8	96.9	0	148
K+	precip	0.12	0.01	1.74	179.2	96.4	3	143
Mg++	precip	0.16	0.01	2.08	246.8	96.7	13	146
NH4+	precip	0.11	0.01	3.51	162.7	96.4	4	143
NO3-	precip	0.10	0.01	4.81	156.5	96.9	7	148
Na+	precip	1.30	0.02	17.92	2001.4	96.8	0	147
Precip	precip	-	0.00	59.90	1542.6	99.2	0	364
SO4--	precip	0.18	0.01	1.54	274.5	96.9	3	148
SO4-- corr	precip	0.07	-0.04	1.36	106.9	96.9	3	148
cond	precip	12.93	2.00	132.00	19940.2	96.4	0	133
pH	precip	5.19	3.58	6.14	9854.2	96.1	0	130

NO0056R Hurdal
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.13	0.01	2.34	111.1	99.8	1	126
Cl-	precip	0.45	0.04	4.22	392.9	99.7	0	124
K+	precip	0.13	0.02	0.95	112.7	99.8	0	126
Mg++	precip	0.04	0.01	0.26	35.9	99.8	12	125
NH4+	precip	0.32	0.01	3.52	280.9	99.8	3	125
NO3-	precip	0.31	0.01	1.94	271.5	99.7	1	124
Na+	precip	0.29	0.02	3.16	254.6	99.8	0	126
Precip	precip	-	0.00	39.20	865.7	99.7	0	366
SO4--	precip	0.21	0.02	0.94	180.4	99.7	0	124
SO4-- corr	precip	0.18	0.02	0.93	159.0	99.7	0	124
cond	precip	9.91	2.00	46.00	8576.9	99.2	0	113
pH	precip	5.01	4.30	6.28	8368.6	99.2	0	113

PL0002R Jarczew
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.22	0.02	4.34	126.3	99.6	0	124
Cl-	precip	0.37	0.06	14.39	211.4	99.6	0	124
K+	precip	0.14	0.02	1.96	78.3	99.6	0	124
Mg++	precip	0.05	0.00	0.91	25.9	99.6	0	124
NH4+	precip	0.52	0.07	9.36	296.3	99.6	0	124
NO3-	precip	0.39	0.06	5.59	222.0	99.6	0	124
Na+	precip	0.17	0.01	8.38	96.2	99.6	0	124
Precip	precip	-	0.00	31.00	566.0	91.5	0	336
Precip off	precip	-	0.00	31.30	558.0	91.5	0	336
SO4--	precip	0.46	0.06	5.35	260.2	99.6	0	124
SO4-- corr	precip	0.44	0.06	5.21	251.6	99.6	0	124
cond	precip	13.42	3.00	145.00	7598.3	99.6	0	124
pH	precip	5.04	4.00	7.12	5216.5	99.6	0	124

PL0003R Sniezka
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.82	0.03	3.99	423.7	97.6	0	157
Cl-	precip	0.80	0.09	2.78	414.5	99.6	0	160
K+	precip	0.49	0.01	3.47	255.0	99.5	0	160
Mg++	precip	0.20	0.01	1.03	105.0	99.5	0	160
NH4+	precip	0.56	0.12	2.11	290.9	99.6	0	161
NO3-	precip	1.06	0.26	3.61	546.2	99.6	0	160
Na+	precip	0.85	0.02	3.48	436.5	99.5	0	160
Precip	precip	-	0.00	33.90	516.2	94.3	0	346
Precip off	precip	-	0.00	50.50	863.2	94.3	0	346
SO4--	precip	1.26	0.23	4.33	652.1	99.6	0	160
SO4-- corr	precip	1.19	0.22	4.22	614.9	99.6	0	160
cond	precip	33.51	13.00	81.00	17296.2	99.8	0	164
pH	precip	4.49	4.13	4.82	16645.3	99.8	0	164

PL0004R Leba
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.02	2.05	112.8	99.6	0	144
Cl-	precip	1.95	0.14	44.83	1378.3	99.6	0	144
K+	precip	0.12	0.02	2.59	86.5	99.6	0	144
Mg++	precip	0.14	0.01	2.92	95.7	99.6	0	144
NH4+	precip	0.35	0.03	2.89	245.0	99.6	0	144
NO3-	precip	0.35	0.07	4.24	247.3	99.6	0	144
Na+	precip	1.12	0.05	24.46	792.0	99.6	0	144
Precip	precip	-	0.00	57.70	708.4	97.5	0	358
Precip off	precip	-	0.00	57.90	649.9	97.5	0	357
SO4--	precip	0.30	0.05	2.04	210.4	99.6	0	144
SO4-- corr	precip	0.20	-0.01	1.81	143.8	99.6	0	144
cond	precip	16.56	4.00	167.00	11729.3	99.6	0	144
pH	precip	5.05	3.67	7.19	6307.9	99.6	0	144

PL0005R Diabla Gora
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.02	8.04	122.4	94.8	0	105
Cl-	precip	0.43	0.04	4.22	302.8	99.9	4	138
K+	precip	0.06	0.01	0.78	41.8	94.8	0	105
Mg++	precip	0.04	0.01	0.71	27.0	94.8	0	105
NH4+	precip	0.41	0.00	3.15	283.4	99.5	6	133
NO3-	precip	0.33	0.03	2.80	228.8	99.9	4	138
Na+	precip	0.14	0.00	1.69	100.8	94.8	2	105
Precip	precip	-	0.00	33.80	699.8	99.9	0	367
Precip off	precip	-	0.00	33.80	776.0	100.0	0	367
SO4--	precip	0.29	0.01	2.12	199.8	99.9	2	138
SO4-- corr	precip	0.27	0.00	2.02	187.8	99.9	2	138
cond	precip	9.66	2.10	35.20	6758.4	95.1	0	104
pH	precip	5.17	4.26	6.88	4761.0	100.0	0	139

RS0005R Kamenicki vis
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	1.48	0.10	8.08	1126.7	99.5	0	107
Cl-	precip	0.38	0.09	2.05	287.0	93.5	0	99
K+	precip	0.34	0.04	4.45	260.7	100.0	0	109
Mg++	precip	0.09	0.03	0.71	66.8	100.0	0	109
NH4+	precip	0.86	0.09	6.41	659.5	100.0	0	109
NO3-	precip	0.57	0.08	7.62	436.5	100.0	0	109
Na+	precip	0.40	0.07	2.55	304.4	100.0	0	109
Precip off	precip	-	0.00	60.30	763.0	100.0	0	366
SO4--	precip	1.38	0.28	6.05	1056.0	100.0	0	109
SO4-- corr	precip	1.35	0.26	5.97	1030.1	100.0	0	109
cond	precip	36.03	2.20	63.70	27492.6	100.0	0	108
pH	precip	5.10	4.45	6.70	6016.6	100.0	0	109

RU0001R Janiskoski
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.38	0.10	2.90	457.7	100.0	0	166
Cl-	precip	1.82	0.09	65.37	2166.9	100.0	0	166
K+	precip	0.98	0.01	65.21	1164.7	100.0	3	166
Mg++	precip	0.05	0.01	3.28	64.5	100.0	0	166
NH4+	precip	0.25	0.01	1.70	295.1	100.0	11	166
NO3-	precip	0.14	0.01	2.10	163.1	100.0	16	166
Na+	precip	0.85	0.05	12.72	1015.6	100.0	0	166
Precip	precip	-	0.00	54.50	1190.9	100.0	0	367
SO4--	precip	0.30	0.03	2.25	354.1	100.0	5	166
SO4-- corr	precip	0.24	-0.19	2.05	283.4	100.0	5	166
cond	precip	13.15	2.90	238.70	15662.9	99.1	0	145
pH	precip	5.59	4.79	6.76	3061.9	99.5	0	151

RU0013R Pinega
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.83	0.17	7.52	417.7	100.0	0	160
Cl-	precip	0.91	0.11	46.27	461.5	100.0	0	160
K+	precip	0.40	0.06	6.77	201.0	100.0	0	160
Mg++	precip	0.17	0.02	1.20	85.4	100.0	0	160
NH4+	precip	0.34	0.03	2.57	173.6	100.0	0	160
NO3-	precip	0.23	0.01	1.91	117.9	100.0	1	160
Na+	precip	0.54	0.08	16.17	271.8	100.0	0	160
Precip	precip	-	0.00	19.20	505.7	100.0	0	367
SO4--	precip	0.45	0.04	7.57	228.7	100.0	1	160
SO4-- corr	precip	0.40	-0.02	6.22	203.1	100.0	1	160
cond	precip	11.84	4.60	77.00	5984.9	91.6	0	117
pH	precip	5.85	4.98	6.90	706.7	98.0	0	139

RU0018R Danki
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.44	0.07	3.05	345.1	100.0	0	151
Cl-	precip	0.59	0.08	3.93	461.1	100.0	0	151
K+	precip	0.16	0.01	1.34	126.4	99.8	4	149
Mg++	precip	0.05	0.01	0.45	42.2	99.5	0	150
NH4+	precip	0.28	0.01	1.32	223.2	100.0	1	151
NO3-	precip	0.19	0.01	1.11	146.1	100.0	6	151
Na+	precip	0.15	0.04	2.98	119.4	100.0	0	151
Precip	precip	-	0.00	42.00	784.4	100.0	0	367
SO4--	precip	0.37	0.03	3.92	293.3	100.0	4	151
SO4-- corr	precip	0.35	0.02	3.67	275.5	100.0	4	151
cond	precip	8.34	0.10	40.20	6541.7	99.1	0	136
pH	precip	5.44	4.46	6.72	2868.3	99.9	0	148

RU0020R Lesnoy
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.45	0.07	3.55	385.3	100.0	0	189
Cl-	precip	0.52	0.02	4.18	445.0	100.0	1	189
K+	precip	0.11	0.01	0.91	97.6	100.0	3	189
Mg++	precip	0.04	0.01	0.38	34.4	100.0	0	189
NH4+	precip	0.29	0.01	1.94	248.6	100.0	2	189
NO3-	precip	0.23	0.04	2.24	192.8	100.0	0	189
Na+	precip	0.15	0.02	1.83	124.5	100.0	0	189
Precip	precip	-	0.00	36.60	853.2	100.0	0	367
SO4--	precip	0.27	0.03	3.77	233.4	100.0	4	189
SO4-- corr	precip	0.25	0.01	3.51	216.4	100.0	4	189
cond	precip	8.24	3.40	49.80	7034.8	97.5	0	156
pH	precip	5.32	4.34	6.36	4109.6	99.1	0	174

SE0005R BredkÅalen
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.02	0.01	0.33	13.0	98.9	84	132
Cl-	precip	0.10	0.01	4.88	54.2	98.9	14	132
K+	precip	0.02	0.01	0.26	11.9	98.9	104	132
Mg++	precip	0.01	0.01	0.31	6.6	98.9	115	132
NH4+	precip	0.11	0.01	1.91	57.1	98.9	6	132
NO3-	precip	0.09	0.00	1.14	49.7	98.9	1	132
Na+	precip	0.05	0.01	2.64	28.3	98.9	72	132
Precip	precip	-	0.00	20.90	538.0	99.9	0	366
SO4--	precip	0.07	0.01	0.74	39.9	98.9	6	132
SO4-- corr	precip	0.07	0.00	0.73	37.6	98.9	6	132
cond	precip	4.75	1.00	34.00	2555.9	99.5	0	146
pH	precip	5.21	4.21	6.60	3284.3	99.5	0	146

SE0012R Aspvreten
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.11	0.01	0.46	55.3	99.2	1	12
Cl-	precip	0.49	0.09	1.36	237.6	99.2	0	12
K+	precip	0.07	0.01	0.23	33.6	99.2	5	12
Mg++	precip	0.04	0.01	0.11	20.8	99.2	5	12
NH4+	precip	0.32	0.07	0.93	157.2	99.2	0	12
NO3-	precip	0.24	0.01	0.85	118.7	99.2	0	12
Na+	precip	0.26	0.01	0.81	125.5	99.2	2	12
Precip	precip	-	22.20	78.00	489.9	99.9	0	13
SO4--	precip	0.25	0.09	0.78	124.9	99.2	0	12
SO4-- corr	precip	0.23	0.06	0.71	113.6	99.2	0	12
cond	precip	10.21	4.00	30.00	5001.8	99.2	0	12
pH	precip	4.89	4.43	6.37	6239.6	99.2	0	12

SE0014R RÅVÄT
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.18	0.01	2.54	93.8	98.8	15	131
Cl-	precip	4.19	0.07	108.78	2190.6	98.8	0	131
K+	precip	0.11	0.01	2.55	57.8	98.8	23	131
Mg++	precip	0.29	0.01	6.73	151.2	98.8	13	131
NH4+	precip	0.39	0.01	3.66	203.1	98.8	3	131
NO3-	precip	0.35	0.00	2.85	184.4	98.8	0	131
Na+	precip	2.36	0.01	61.45	1234.4	98.8	2	131
Precip	precip	-	0.00	20.90	522.9	99.9	0	366
SO4--	precip	0.35	0.02	5.39	180.6	98.8	0	131
SO4-- corr	precip	0.15	-0.16	1.30	77.0	98.8	0	131
cond	precip	25.22	4.00	388.00	13188.0	99.7	0	148
pH	precip	5.07	4.37	6.63	4469.8	99.7	0	148

SE0020R Hallahus
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.16	0.06	0.33	86.6	100.0	0	12
Cl-	precip	1.68	0.15	5.72	887.4	100.0	0	12
K+	precip	0.09	0.01	0.31	46.1	100.0	1	12
Mg++	precip	0.12	0.02	0.43	65.9	100.0	0	12
NH4+	precip	0.51	0.33	1.35	270.1	100.0	0	12
NO3-	precip	0.51	0.12	1.01	268.6	100.0	0	12
Na+	precip	0.95	0.08	3.24	503.3	100.0	0	12
Precip	precip	-	7.40	108.00	529.2	96.9	0	12
SO4--	precip	0.31	0.18	0.47	166.0	100.0	0	12
SO4-- corr	precip	0.23	0.16	0.39	123.6	100.0	0	12
cond	precip	19.35	8.00	46.00	10241.7	100.0	0	12
pH	precip	4.86	4.38	6.11	7325.1	100.0	0	12

SI0008R Iskrba
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.37	0.02	3.97	583.3	99.9	2	150
Cl-	precip	0.47	0.01	8.46	738.6	99.9	7	151
K+	precip	0.05	0.01	6.37	81.6	99.9	46	151
Mg++	precip	0.05	0.01	0.60	85.4	99.9	55	151
NH4+	precip	0.22	0.00	5.13	342.0	99.9	6	151
NO3-	precip	0.21	0.03	2.70	334.2	99.9	0	151
Na+	precip	0.28	0.01	5.33	441.6	99.9	26	150
Precip	precip	-	0.00	50.60	1580.2	99.9	0	367
Precip off	precip	-	0.00	59.50	1734.3	100.0	0	367
SO4--	precip	0.25	0.01	6.59	398.1	99.9	3	151
SO4-- corr	precip	0.23	0.01	6.57	361.4	99.9	3	151
cond	precip	8.97	2.00	39.00	14168.9	97.5	0	115
pH	precip	5.26	4.37	6.98	8645.8	97.5	0	115

SK0002R Chopok
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.10	0.01	2.30	156.3	90.0	6	126
Cl-	precip	0.13	0.00	0.93	194.8	88.6	0	125
K+	precip	0.04	0.00	0.26	54.9	90.5	1	127
Mg++	precip	0.02	0.00	0.38	31.1	90.2	6	126
NH4+	precip	0.29	0.00	1.64	445.6	86.9	0	121
NO3-	precip	0.21	0.03	0.83	313.3	90.2	0	126
Na+	precip	0.09	0.01	0.67	135.5	90.1	0	126
Precip	precip	-	0.00	62.30	1524.4	61.3	0	225
SO4--	precip	0.28	0.06	0.99	424.1	89.3	0	125
SO4-- corr	precip	0.27	0.06	0.98	414.1	89.3	0	125
cond	precip	10.59	3.82	57.30	16136.2	85.6	0	104
pH	precip	5.11	4.37	7.28	11721.2	85.6	0	104

SK0004R Starã; Lesnã;
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.17	0.01	2.87	114.6	94.8	0	39
Cl-	precip	0.13	0.04	0.59	91.8	95.6	0	39
K+	precip	0.06	0.01	0.67	42.7	95.6	0	39
Mg++	precip	0.03	0.00	0.21	19.6	95.6	0	39
NH4+	precip	0.39	0.01	3.20	266.0	94.6	0	39
NO3-	precip	0.24	0.07	0.91	166.2	94.4	0	38
Na+	precip	0.12	0.01	1.29	82.0	95.6	0	39
Precip	precip	-	0.10	50.40	681.8	95.3	0	46
SO4--	precip	0.34	0.06	1.19	230.2	96.3	0	39
SO4-- corr	precip	0.33	0.06	1.12	223.4	96.3	0	39
cond	precip	11.84	5.10	40.70	8075.1	93.0	0	36
pH	precip	5.27	4.54	6.55	3678.8	93.0	0	36

SK0006R Starina
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.27	0.02	4.08	210.8	87.1	0	73
Cl-	precip	0.16	0.01	0.96	127.7	87.5	0	74
K+	precip	0.08	0.01	0.90	65.3	87.4	0	74
Mg++	precip	0.03	0.01	0.25	25.4	87.1	0	73
NH4+	precip	0.29	0.02	1.96	227.3	67.0	0	64
NO3-	precip	0.27	0.01	1.48	212.8	86.9	0	73
Na+	precip	0.14	0.01	0.96	106.1	87.6	0	75
Precip	precip	-	0.00	55.00	784.7	40.5	0	149
SO4--	precip	0.36	0.02	2.60	279.1	87.6	0	75
SO4-- corr	precip	0.34	0.02	2.53	270.3	87.6	0	75
cond	precip	11.74	3.77	32.20	9211.8	78.8	0	48
pH	precip	5.03	4.41	6.33	7279.3	78.8	0	48

SK0007R Topolniky
January 2016 - December 2016

Component	matrix	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Ca++	precip	0.09	0.02	0.76	56.0	95.7	0	36
Cl-	precip	0.13	0.04	0.74	77.8	99.6	0	38
K+	precip	0.03	0.01	0.11	18.5	98.5	0	36
Mg++	precip	0.02	0.01	0.06	12.9	95.4	0	35
NH4+	precip	0.35	0.03	0.88	210.1	98.2	0	35
NO3-	precip	0.32	0.01	1.23	187.6	99.6	1	38
Na+	precip	0.06	0.02	0.29	36.6	96.5	0	37
Precip	precip	-	0.60	72.60	594.7	78.4	0	41
SO4--	precip	0.33	0.05	1.91	196.2	99.6	0	38
SO4-- corr	precip	0.32	0.04	1.89	193.2	99.6	0	38
cond	precip	11.92	3.49	39.20	7086.0	92.9	0	31
pH	precip	5.16	4.48	6.50	4077.2	91.1	0	30

Annex 3

Annual statistics on gases and aerosol data

AM001R Amberd
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.34	0.41	0.16	3.84	0.00	0.02	0.18	1.24	3.14	74.6	2	273
Cl-	aerosol	0.13	0.18	0.05	4.56	0.00	0.00	0.05	0.50	1.16	74.6	32	273
HNO3	air	0.08	0.07	0.06	2.19	0.00	0.02	0.07	0.20	0.50	73.8	4	270
K+	aerosol	0.09	0.09	0.06	3.05	0.00	0.01	0.06	0.30	0.50	68.9	4	252
Mg++	aerosol	0.04	0.06	0.02	3.54	0.00	0.00	0.02	0.13	0.50	74.6	3	273
NH3	air	0.75	0.38	0.64	2.04	0.01	0.19	0.78	1.14	4.23	74.6	6	273
NH4+	aerosol	0.51	0.33	0.40	2.14	0.02	0.09	0.45	1.23	1.66	74.6	4	273
NO2	air	0.23	0.17	0.18	2.11	0.00	0.04	0.16	0.61	0.69	52.7	0	193
NO3-	aerosol	0.40	0.60	0.20	3.51	0.00	0.02	0.20	1.56	4.54	74.6	9	273
Na+	aerosol	0.06	0.08	0.03	3.23	0.00	0.00	0.03	0.21	0.50	73.2	4	268
SO2	air	0.25	0.23	0.16	2.90	0.00	0.02	0.18	0.75	1.12	73.0	4	267
SO4--	aerosol	0.44	0.34	0.31	2.80	0.00	0.06	0.37	1.16	1.99	74.6	0	273
SO4-- corr	aerosol	0.44	0.33	0.31	2.56	-0.04	0.05	0.36	1.15	1.98	74.6	0	273

AT0002R Illmitz
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	2.47	1.44	2.13	1.72	0.36	0.91	2.08	5.65	9.58	97.3	0	356
PM1 mass	pm1	9.36	5.45	7.97	1.79	1.30	2.93	8.00	22.49	28.00	33.1	0	121
PM10 mass	pm10	16.78	10.72	14.11	1.80	2.60	5.50	13.70	38.98	64.10	98.9	0	362
PM25 mass	pm25	13.20	9.40	10.79	1.87	1.90	4.00	10.20	34.22	53.90	94.8	0	347
SO2	air	0.45	0.84	0.32	2.09	0.04	0.11	0.28	1.29	46.33	94.6	0	8314

AT0005R Vorhegg
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.77	0.42	0.68	1.59	0.24	0.33	0.67	1.64	3.34	98.1	0	359
PM10 mass	pm10	6.60	5.41	5.04	2.08	1.10	1.67	5.10	16.60	36.80	30.9	0	113
SO2	air	0.11	0.11	0.09	2.17	0.00	0.02	0.10	0.25	2.53	92.4	0	8116

AT0034G Sonnblick
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.05	0.09	0.03	2.29	0.00	0.01	0.03	0.14	2.99	95.6	0	8394
NO2	air	0.25	0.23	0.21	1.72	0.02	0.10	0.19	0.60	4.41	95.6	0	8394

AT0048R Zoebelboden
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.07	0.75	0.90	1.78	0.18	0.40	0.88	2.40	6.69	97.5	0	357
PM10 mass	pm10	6.05	4.71	4.23	2.62	0.20	0.70	5.10	13.27	29.90	33.3	0	122
SO2	air	0.14	0.12	0.11	1.87	0.02	0.05	0.10	0.37	1.70	80.7	0	7086

BE0001R Offagne
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	6.60	6.56	4.51	2.49	0.00	1.00	4.50	19.50	54.00	97.0	0	8523

BE0011R Moerkerke
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.51	3.98	0.53	3.04	0.30	0.30	0.30	7.50	53.10	94.3	6246	8279
NO2	air	4.83	3.99	3.27	2.67	0.30	0.30	3.70	13.10	27.50	94.3	592	8279

BE0013R Houtem
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.06	2.03	0.68	2.01	0.00	0.50	0.50	4.00	35.20	96.6	6596	8488
NO2	air	3.42	3.13	2.23	2.68	0.30	0.30	2.40	10.00	21.90	96.6	816	8488

BE0014R Koksijde
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH3	air	2.37	1.23	2.01	1.92	0.42	0.42	2.17	4.47	4.47	100.0	0	14

BE0032R Eupen
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	10.42	8.56	7.69	2.21	0.00	2.00	7.50	28.00	72.00	97.5	0	8563

BE0035R Vezin
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	11.90	9.56	8.66	2.32	0.00	2.00	9.00	31.50	68.50	97.4	0	8560

CH0001G Jungfrauoch
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	110.24	21.81	108.08	1.22	56.25	76.35	109.38	145.22	226.93	87.1	0	7652
NO	air	0.02	0.04	0.01	3.62	-0.00	0.00	0.01	0.06	0.75	82.3	0	7226
NO2	air	0.08	0.13	0.04	2.66	0.00	0.01	0.04	0.27	2.06	76.7	0	6741
PM10 mass	pm10	1.74	2.13	1.14	2.49	-0.20	0.29	1.10	5.41	21.20	97.5	0	357
SO2	air	0.02	0.03	0.02	1.87	-0.03	-0.01	0.01	0.05	0.75	97.4	0	8556
SO4--	aerosol	0.06	0.07	0.04	2.50	0.00	0.01	0.04	0.20	0.53	97.5	0	357

CH0002R Fayerne
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.31	0.29	0.20	2.80	0.00	0.03	0.21	0.91	1.39	99.5	0	364
EC	pm25	0.43	0.19	0.39	1.56	0.16	0.17	0.41	0.87	0.97	7.7	0	28
HNO3	air	0.18	0.07	0.17	1.49	0.06	0.08	0.16	0.34	0.36	100.0	0	27
HNO3+NO3-	air+aerosol	0.81	0.82	0.54	2.48	0.05	0.12	0.51	2.67	5.36	100.0	0	366
K+	aerosol	0.18	0.15	0.14	2.21	0.00	0.03	0.13	0.49	0.90	99.5	0	364
Mg++	aerosol	0.03	0.02	0.02	2.33	0.00	0.00	0.03	0.07	0.15	99.5	0	364
NH3	air	1.96	0.82	1.76	1.63	0.58	0.58	1.94	3.46	3.72	100.0	0	27
NH3+NH4+	air+aerosol	3.05	1.76	2.52	1.94	0.26	0.70	2.84	6.18	11.77	100.0	0	366
NH4+	aerosol	0.86	0.57	0.70	1.96	0.19	0.22	0.67	2.09	2.24	100.0	0	27
NO	air	1.15	3.14	0.15	8.12	-0.01	0.01	0.12	6.34	70.30	94.7	0	8315
NO2	air	3.29	2.95	2.22	2.53	0.12	0.44	2.28	9.89	19.73	97.8	0	8593
NO3-	aerosol	0.66	0.44	0.52	2.02	0.13	0.16	0.53	1.64	1.86	100.0	0	27
Na+	aerosol	0.13	0.16	0.08	2.94	-0.01	0.00	0.07	0.45	1.27	99.5	0	364
OC	pm25	1.48	0.86	1.22	1.95	0.31	0.32	1.30	3.28	3.41	7.7	0	28
PM10 mass	pm10	11.56	7.58	9.42	1.94	0.90	2.90	9.75	27.43	49.20	100.0	0	366
PM25 mass	pm25	8.09	6.23	6.31	2.05	1.40	1.90	6.60	19.18	41.80	24.9	0	91
SO2	air	0.16	0.15	0.12	2.49	-0.06	0.01	0.13	0.43	2.15	95.5	0	8387
SO4--	aerosol	0.36	0.24	0.29	2.00	0.04	0.08	0.32	0.77	1.84	100.0	0	366
SO4-- corr	aerosol	0.34	0.24	0.27	2.11	0.03	0.07	0.30	0.76	1.82	100.0	0	366
TC	pm25	1.91	1.00	1.64	1.80	0.54	0.57	1.70	3.81	3.99	7.7	0	28

CH0003R Tännikon
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	3.62	2.99	2.69	2.18	0.06	0.78	2.62	10.05	21.94	95.4	0	8378
PM10 mass	pm10	11.44	7.52	9.22	1.99	1.30	2.73	9.70	26.79	50.50	100.0	0	366

CH0004R Chaumont
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.65	1.19	1.35	1.86	0.23	0.52	1.28	4.16	14.01	94.6	0	8312
PM10 mass	pm10	6.44	5.40	4.72	2.34	-0.60	0.90	5.10	16.26	43.40	100.0	0	366

CH0005R Rigi
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.22	0.26	0.12	3.17	-0.01	0.01	0.12	0.74	1.84	97.5	0	357
EC	pm25	0.29	0.12	0.27	1.46	0.16	0.16	0.27	0.58	0.64	7.7	0	28
HNO3	air	0.15	0.05	0.14	1.40	0.07	0.07	0.14	0.23	0.24	100.0	0	27
HNO3+NO3-	air+aerosol	0.58	0.64	0.37	2.67	0.02	0.07	0.43	1.59	5.49	97.5	0	357
K+	aerosol	0.07	0.04	0.06	1.88	0.00	0.02	0.06	0.14	0.25	97.5	0	357
Mg++	aerosol	0.02	0.02	0.02	2.01	0.00	0.00	0.02	0.07	0.15	97.5	0	357
NH3	air	0.82	0.58	0.61	2.31	0.09	0.13	0.53	1.82	1.83	100.0	0	27
NH3+NH4+	air+aerosol	1.55	1.23	1.12	2.39	0.12	0.22	1.30	3.30	8.25	97.5	0	357
NH4+	aerosol	0.58	0.43	0.47	1.83	0.11	0.15	0.46	1.89	2.04	100.0	0	27
NO	air	0.16	0.45	0.04	4.61	-0.00	0.01	0.02	0.75	7.70	95.3	0	8370
NO2	air	0.84	1.15	0.53	2.48	0.03	0.13	0.48	2.77	16.87	72.5	0	6365
NO2	air	1.51	1.74	0.89	2.82	0.08	0.17	0.86	5.18	11.32	23.8	0	2091
NO3-	aerosol	0.43	0.32	0.35	1.80	0.13	0.14	0.32	1.42	1.63	100.0	0	27
Na+	aerosol	0.09	0.12	0.06	2.68	-0.02	0.00	0.05	0.30	0.84	97.5	0	357
OC	pm25	0.82	0.64	0.60	2.37	0.07	0.07	0.62	2.54	2.58	7.9	0	29
PM10 mass	pm10	6.20	5.48	4.39	2.46	-1.70	0.97	4.60	15.12	42.90	100.0	0	366
PM25 mass	pm25	4.77	4.14	3.66	2.18	0.10	1.33	3.90	11.12	33.20	23.2	0	85
SO2	air	0.13	0.09	0.11	1.84	0.00	0.04	0.11	0.28	2.46	95.4	0	8378
SO4--	aerosol	0.26	0.21	0.19	2.42	0.01	0.04	0.21	0.62	1.75	98.6	0	361
SO4-- corr	aerosol	0.24	0.20	0.17	2.53	0.01	0.03	0.19	0.61	1.74	98.6	0	361
TC	pm25	1.13	0.72	0.94	1.88	0.23	0.26	0.93	2.99	3.09	7.7	0	28

CY0002R Agia Marina Xyliatou / Cyprus Atmospheric Observatory
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.14	0.21	0.07	3.00	0.01	0.01	0.09	0.44	2.49	96.2	0	352
Cl-	pm10	0.03	0.04	0.02	1.82	0.02	0.02	0.09	0.41	0.62	96.2	0	352
EC	pm10	0.22	0.16	0.19	1.74	0.05	0.08	0.18	0.52	1.39	96.2	0	352
K+	pm10	0.09	0.05	0.08	1.78	0.02	0.03	0.08	0.20	0.31	96.2	0	352
Mg++	pm10	0.03	0.02	0.02	2.16	0.00	0.01	0.03	0.06	0.11	96.2	0	352
NH4+	pm10	0.79	0.47	0.64	2.04	0.03	0.17	0.70	1.72	2.38	96.2	0	352
NO2	air	0.74	0.43	0.66	1.63	0.08	0.29	0.66	1.49	12.22	92.9	0	8162
NO3-	pm10	0.03	0.03	0.02	2.22	0.01	0.01	0.02	0.09	0.19	96.2	0	352
Na+	pm10	0.16	0.11	0.13	2.10	0.02	0.03	0.14	0.37	0.59	96.2	0	352
OC	pm10	1.32	0.94	1.14	1.71	0.33	0.43	1.15	2.69	10.36	96.2	0	352
PM10 mass	pm10	19.91	12.79	17.24	1.70	3.78	6.89	17.75	39.77	148.75	95.1	0	348
PM25 mass	pm25	9.78	4.56	8.82	1.59	1.60	3.70	9.00	17.34	39.30	96.2	0	352
SO2	air	0.39	0.52	0.21	3.18	-0.04	0.03	0.23	1.39	9.00	93.5	0	8215
SO4--	pm10	1.01	0.55	0.87	1.75	0.10	0.33	0.88	2.10	2.94	96.2	0	352
SO4-- corr	pm10	1.00	0.55	0.85	1.77	0.09	0.32	0.88	2.08	2.92	96.2	0	352
TC	pm10	1.54	1.04	1.34	1.68	0.38	0.53	1.33	3.17	10.91	96.2	0	352

CZ0001R Svratouch
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	15.23	7.00	13.53	1.69	1.00	4.84	14.30	28.49	42.00	49.5	1	181

CZ0003R Kosectice (NOAK)
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.04	0.05	0.02	2.84	0.01	0.01	0.03	0.14	0.29	98.8	17	52
HNO3+NO3-	air+aerosol	0.74	0.40	0.64	1.73	0.12	0.23	0.65	1.59	2.08	100.0	0	367
K+	pm25	0.08	0.06	0.06	1.76	0.02	0.03	0.07	0.19	0.38	98.8	0	52
Mg++	pm25	0.01	0.01	0.01	1.54	0.01	0.01	0.01	0.03	0.03	98.8	42	52
NH3+NH4+	air+aerosol	2.42	1.05	2.17	1.63	0.32	0.91	2.39	4.12	8.49	100.0	0	367
Na+	pm25	0.03	0.02	0.03	1.45	0.03	0.03	0.03	0.10	0.15	98.8	48	52
PM10 mass	pm10	16.28	6.96	14.54	1.70	1.00	6.00	15.40	29.61	37.30	50.5	2	185
PM10 mass	pm10	16.43	14.37	10.62	2.81	1.00	1.00	12.00	45.05	95.00	95.8	506	8418
PM25 mass	pm25	11.26	10.21	7.31	2.73	1.00	1.00	8.00	31.00	87.00	99.3	812	8720
PM25 mass	pm25	13.55	5.92	12.09	1.69	1.00	4.77	12.90	24.80	33.50	50.8	2	186
SO2	air	0.47	0.26	0.41	1.66	0.08	0.20	0.40	1.04	1.45	100.0	0	367
SO2	air	0.72	0.57	0.55	2.03	0.27	0.27	0.65	1.85	5.76	95.0	3571	8343
SO4--	aerosol	0.52	0.40	0.37	2.52	0.02	0.05	0.42	1.36	2.02	100.0	0	367

CZ0005R Churanov
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.46	0.33	0.36	2.08	0.08	0.09	0.35	1.34	1.51	16.9	0	62
NH3+NH4+	air+aerosol	1.14	0.55	1.02	1.61	0.38	0.48	1.04	2.14	2.90	16.7	0	61
PM10 mass	pm10	7.22	5.46	5.22	2.37	1.00	1.00	6.00	17.00	31.00	100.0	40	367
SO2	air	0.33	0.23	0.28	1.82	0.09	0.12	0.25	0.88	1.07	16.9	0	62
SO4--	aerosol	0.88	0.77	0.61	2.49	0.09	0.11	0.71	2.74	3.57	16.9	0	62

DE0001R Westerland
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.04	0.06	0.03	2.17	0.00	0.02	0.03	0.10	0.48	16.7	1	61
Cl-	pm25	0.34	0.54	0.14	4.02	0.01	0.01	0.14	1.12	3.52	16.7	3	61
K+	pm25	0.05	0.07	0.03	2.67	0.01	0.01	0.04	0.20	0.41	16.7	14	61
Mg++	pm25	0.03	0.04	0.01	4.76	0.00	0.00	0.01	0.10	0.26	16.7	8	61
NH3	air	1.67	1.10	1.36	1.87	0.43	0.48	1.26	4.04	5.43	96.2	0	51
NH4+	pm25	0.70	0.79	0.36	3.41	0.03	0.06	0.32	2.51	3.27	16.7	0	61
NO	air	0.26	0.51	0.11	3.06	0.02	0.04	0.07	1.11	12.03	90.2	4377	7920
NO2	air	1.65	2.04	0.73	4.39	0.00	0.03	0.97	5.69	17.30	90.2	1139	7920
NO2	air	2.22	1.71	1.74	2.01	0.27	0.56	1.71	5.22	11.66	89.3	0	328
NO3-	pm25	0.45	0.63	0.17	4.19	0.02	0.03	0.11	1.93	2.80	16.7	0	61
Na+	pm25	0.25	0.33	0.13	3.16	0.01	0.02	0.13	0.89	2.08	16.7	1	61
PM10 mass	pm10	16.22	7.54	14.54	1.62	3.54	6.03	15.03	31.34	44.73	98.9	0	362
SO4--	pm25	0.34	0.25	0.27	2.03	0.04	0.08	0.30	1.08	1.20	16.7	0	61
SO4-- corr	pm25	0.32	0.25	0.24	2.22	0.03	0.06	0.27	1.08	1.20	16.7	0	61

DE0002R Waldhof
January 2016 - December 2016

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	0.02	1.69	0.00	0.01	0.02	0.05	0.10	16.7	2	61
Cl-	aerosol	0.36	0.72	0.10	6.09	0.00	0.00	0.10	1.69	7.14	99.2	77	363
Cl-	pm25	0.13	0.23	0.03	5.92	0.00	0.00	0.04	0.91	0.98	16.7	19	61
EC	pm25	0.27	0.32	0.20	2.17	0.02	0.05	0.18	0.77	2.22	16.7	0	61
HNO3	air	0.22	0.18	0.16	2.31	0.02	0.04	0.16	0.56	1.33	99.2	0	363
HNO3+NO3-	air+aerosol	0.78	0.54	0.62	1.96	0.12	0.22	0.61	1.95	2.88	98.9	0	362
K+	pm25	0.07	0.07	0.04	2.65	0.01	0.01	0.04	0.25	0.37	16.7	8	61
Mg++	pm25	0.02	0.03	0.01	4.02	0.00	0.00	0.01	0.11	0.12	16.7	10	61
NH3	air	1.19	0.83	0.90	2.18	0.10	0.24	1.06	3.05	3.66	100.0	0	53
NH3	air	1.44	0.99	1.14	2.01	0.13	0.34	1.17	3.40	5.75	99.4	0	364
NH4+	pm25	0.92	0.88	0.57	2.79	0.08	0.10	0.51	2.80	3.65	16.7	0	61
NO2	air	2.68	1.87	2.29	1.69	0.70	1.15	2.06	6.44	13.09	96.2	0	353
NO3-	aerosol	0.56	0.53	0.35	2.87	0.01	0.07	0.35	1.65	2.63	99.2	4	363
NO3-	pm25	0.56	0.69	0.20	5.25	0.01	0.01	0.22	2.06	3.05	16.7	0	61
Na+	pm25	0.12	0.18	0.06	3.08	0.01	0.01	0.06	0.76	0.81	16.7	5	61
OC	pm25	2.57	2.41	2.05	1.89	0.55	0.71	1.96	5.36	18.20	16.7	0	61
PM1 mass	pm1	7.67	4.87	6.57	1.73	1.92	2.60	6.41	15.44	42.96	99.4	0	364
PM10 mass	pm10	15.22	9.44	13.22	1.68	3.22	5.79	13.14	31.09	93.56	99.4	0	364
PM25 mass	pm25	11.92	9.32	9.65	1.88	2.27	3.86	9.05	28.55	89.12	99.4	0	364
SO2	air	0.25	0.36	0.14	3.04	0.00	0.03	0.15	0.83	4.10	99.2	9	363
SO2	air	0.36	0.48	0.28	1.87	0.10	0.15	0.25	0.85	5.66	98.1	0	359
SO4--	aerosol	0.54	0.35	0.46	1.76	0.09	0.17	0.47	1.08	3.28	99.2	0	363
SO4--	pm25	0.47	0.33	0.39	1.90	0.06	0.12	0.38	1.34	1.68	16.7	0	61
SO4-- corr	aerosol	0.54	0.35	0.45	1.78	-0.01	0.17	0.46	1.08	3.26	99.2	0	363
SO4-- corr	pm25	0.46	0.33	0.37	2.00	0.05	0.11	0.37	1.34	1.68	16.7	0	61
TC	pm25	2.84	2.71	2.26	1.89	0.68	0.80	2.11	6.28	20.40	16.7	0	61

DE0003R Schauinsland
January 2016 - December 2016

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	0.00	5.76	0.00	0.00	0.00	0.07	0.24	16.7	27	61
Cl-	aerosol	0.08	0.19	0.02	5.66	0.00	0.00	0.03	0.41	1.87	96.7	230	354
Cl-	pm25	0.01	0.01	0.00	2.29	0.00	0.00	0.00	0.02	0.05	16.7	43	61
EC	pm25	0.10	0.08	0.07	2.57	0.00	0.01	0.06	0.28	0.36	17.2	0	63
HNO3	air	0.26	0.22	0.19	2.37	0.01	0.04	0.19	0.73	1.66	97.5	3	357
HNO3+NO3-	air+aerosol	0.52	0.43	0.39	2.16	0.05	0.10	0.40	1.25	3.82	95.3	0	349
K+	pm25	0.03	0.03	0.02	2.49	0.01	0.01	0.02	0.07	0.17	16.7	29	61
Mg++	pm25	0.00	0.01	0.00	2.76	0.00	0.00	0.00	0.02	0.03	16.7	41	61
NH3	air	0.58	0.44	0.43	2.21	0.12	0.12	0.38	1.52	1.58	79.8	0	43
NH3	air	0.69	0.54	0.49	2.46	0.02	0.10	0.53	1.86	3.00	97.5	4	357
NH4+	pm25	0.36	0.35	0.20	3.51	0.01	0.01	0.25	1.24	1.62	16.7	5	61
NO3-	aerosol	0.25	0.36	0.13	3.46	0.00	0.01	0.14	0.81	3.64	96.7	16	354
NO3-	pm25	0.14	0.21	0.06	3.55	0.01	0.01	0.05	0.65	1.06	16.7	0	61
Na+	pm25	0.03	0.03	0.02	2.58	0.01	0.01	0.02	0.11	0.13	16.7	29	61
OC	pm25	1.05	0.77	0.80	2.11	0.20	0.25	0.72	2.74	2.99	17.2	0	63
PM10 mass	pm10	9.03	6.62	6.91	2.14	1.11	1.93	7.45	20.81	46.35	98.6	0	361
PM25 mass	pm25	7.17	5.01	5.81	1.92	1.18	2.00	6.08	14.85	39.59	98.9	0	362
SO2	air	0.20	0.18	0.13	2.68	0.00	0.02	0.14	0.54	1.18	97.5	8	357
SO2	air	0.25	0.09	0.23	1.40	0.10	0.15	0.20	0.40	0.85	95.9	0	351
SO4--	aerosol	0.31	0.27	0.21	2.73	0.00	0.03	0.26	0.79	1.68	96.7	6	354
SO4--	pm25	0.24	0.21	0.14	3.88	0.00	0.01	0.20	0.76	0.90	16.7	1	61
SO4-- corr	aerosol	0.31	0.27	0.20	2.93	-0.12	0.02	0.26	0.79	1.68	96.7	6	354
SO4-- corr	pm25	0.24	0.21	0.13	4.02	0.00	0.01	0.20	0.76	0.90	16.7	1	61
TC	pm25	1.14	0.85	0.87	2.12	0.23	0.27	0.80	3.00	3.24	17.2	0	63

DE0007R Neuglobsow
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.02	0.02	2.07	0.00	0.01	0.02	0.07	0.15	16.7	0	61
Cl-	aerosol	0.38	0.69	0.12	5.41	0.00	0.00	0.13	1.52	7.19	98.6	92	361
Cl-	pm25	0.10	0.19	0.03	4.28	0.01	0.01	0.03	0.73	0.88	16.7	19	61
EC	pm25	0.29	0.29	0.21	2.22	0.05	0.06	0.20	0.83	1.86	16.9	0	62
HNO3	air	0.17	0.15	0.12	2.27	0.01	0.03	0.11	0.44	0.89	98.9	0	362
HNO3+NO3-	air+aerosol	0.69	0.52	0.54	2.06	0.04	0.16	0.54	1.79	2.94	98.3	0	360
K+	pm25	0.06	0.06	0.04	2.58	0.01	0.01	0.05	0.19	0.27	16.7	7	61
Mg++	pm25	0.01	0.02	0.00	4.39	0.00	0.00	0.00	0.09	0.12	16.7	15	61
NH3	air	0.68	0.51	0.49	2.36	0.06	0.12	0.68	1.58	2.73	100.0	1	52
NH3	air	0.77	0.63	0.53	2.65	0.02	0.09	0.63	1.96	3.48	99.7	6	365
NH4+	pm25	0.84	0.84	0.51	2.93	0.04	0.06	0.48	3.09	3.29	16.7	0	61
NO2	air	1.88	1.14	1.64	1.64	0.43	0.82	1.53	4.31	8.00	94.8	0	348
NO3-	aerosol	0.52	0.53	0.32	2.82	0.02	0.06	0.30	1.61	2.88	98.6	0	361
NO3-	pm25	0.43	0.60	0.14	5.02	0.01	0.02	0.12	1.90	2.60	16.7	0	61
Na+	pm25	0.11	0.17	0.05	3.25	0.01	0.01	0.05	0.63	0.89	16.7	8	61
OC	pm25	2.63	2.52	2.01	2.02	0.57	0.61	1.84	7.60	17.00	16.9	0	62
PM10 mass	pm10	14.80	9.03	12.83	1.69	2.85	5.66	12.44	31.39	76.53	100.0	0	366
PM25 mass	pm25	10.94	8.41	8.79	1.91	2.04	3.20	8.73	27.31	69.29	100.0	0	366
SO2	air	0.23	0.39	0.13	2.92	0.00	0.02	0.12	0.71	4.33	98.9	11	362
SO2	air	0.47	0.48	0.39	1.68	0.15	0.20	0.35	1.00	5.61	98.1	0	359
SO4--	aerosol	0.55	0.40	0.45	1.94	0.01	0.15	0.45	1.34	3.24	98.6	0	361
SO4--	pm25	0.51	0.40	0.40	1.97	0.08	0.13	0.37	1.28	2.17	16.7	0	61
SO4-- corr	aerosol	0.55	0.40	0.44	1.97	0.01	0.14	0.45	1.33	3.22	98.6	0	361
SO4-- corr	pm25	0.50	0.41	0.39	2.06	0.07	0.09	0.37	1.27	2.16	16.7	0	61
TC	pm25	2.92	2.79	2.23	2.01	0.61	0.71	2.04	8.31	18.80	16.9	0	62

DE0008R SchmÄtcke
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.02	0.02	0.01	2.26	0.00	0.00	0.02	0.04	0.10	16.7	12	61
Cl-	pm25	0.02	0.03	0.01	1.91	0.01	0.01	0.01	0.08	0.23	16.7	50	61
EC	pm25	0.16	0.09	0.13	2.29	0.01	0.03	0.16	0.32	0.41	16.7	0	61
K+	pm25	0.03	0.03	0.02	2.32	0.01	0.01	0.02	0.09	0.16	16.7	22	61
Mg++	pm25	0.01	0.01	0.00	3.40	0.00	0.00	0.00	0.02	0.07	16.7	24	61
NH3	air	0.53	0.42	0.38	2.38	0.05	0.07	0.40	1.50	1.68	98.1	3	52
NH4+	pm25	0.46	0.39	0.28	3.45	0.01	0.01	0.35	1.27	1.48	16.7	4	61
NO2	air	1.77	1.15	1.54	1.63	0.42	0.87	1.36	4.15	8.55	95.9	0	352
NO3-	pm25	0.20	0.25	0.09	3.75	0.01	0.01	0.09	0.82	0.98	16.7	0	61
Na+	pm25	0.04	0.07	0.02	2.82	0.01	0.01	0.02	0.15	0.44	16.7	28	61
OC	pm25	1.36	0.79	1.12	1.95	0.15	0.29	1.11	2.88	3.26	16.7	0	61
PM10 mass	pm10	10.54	7.18	8.35	2.05	0.86	2.29	8.86	23.52	45.86	98.1	0	359
PM25 mass	pm25	8.27	6.84	6.34	2.09	0.78	1.88	6.63	20.06	54.08	100.0	0	366
SO2	air	0.34	0.37	0.26	1.91	0.10	0.10	0.25	0.80	3.90	98.6	0	361
SO4--	pm25	0.31	0.25	0.20	2.90	0.01	0.02	0.26	0.87	1.18	16.7	0	61
SO4-- corr	pm25	0.30	0.25	0.20	2.93	0.01	0.02	0.26	0.87	1.18	16.7	0	61
TC	pm25	1.52	0.86	1.26	1.96	0.16	0.31	1.24	3.02	3.57	16.7	0	61

DE0009R Zingst
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.01	0.01	0.01	3.55	0.00	0.00	0.01	0.05	0.05	16.4	11	60
Cl-	pm25	0.09	0.16	0.03	4.36	0.00	0.00	0.03	0.33	1.08	16.4	12	60
K+	pm25	0.04	0.04	0.03	2.36	0.00	0.01	0.03	0.15	0.20	16.4	2	60
Mg++	pm25	0.01	0.01	0.00	3.53	0.00	0.00	0.00	0.02	0.09	16.4	42	60
NH3	air	0.83	0.54	0.65	2.09	0.10	0.13	0.72	2.07	2.63	100.0	0	53
NH4+	pm25	0.65	0.61	0.41	2.77	0.05	0.07	0.44	1.96	3.05	16.4	0	60
NO	air	0.16	0.35	0.06	3.75	0.00	0.01	0.05	0.66	9.49	94.5	5129	8302
NO2	air	1.66	1.50	1.17	2.34	0.03	0.27	1.22	4.68	12.18	94.5	10	8302
NO2	air	2.10	1.21	1.84	1.68	0.33	0.79	1.76	4.84	7.28	97.8	0	359
NO3-	pm25	0.36	0.47	0.13	5.19	0.01	0.01	0.17	1.12	2.55	16.4	0	60
Na+	pm25	0.09	0.13	0.05	2.98	0.01	0.01	0.05	0.29	0.80	16.4	6	60
PM10 mass	pm10	13.92	7.81	12.21	1.65	2.99	5.67	11.45	29.47	49.06	99.4	0	364
SO2	air	0.29	0.29	0.23	1.78	0.05	0.10	0.20	0.77	2.45	91.0	0	333
SO4--	pm25	0.36	0.26	0.29	1.98	0.05	0.09	0.32	0.87	1.41	16.4	0	60
SO4-- corr	pm25	0.36	0.26	0.29	2.02	0.05	0.09	0.32	0.87	1.41	16.4	0	60

DE0044R Melpitz
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm10	0.44	0.35	0.35	1.92	0.04	0.13	0.33	1.03	2.59	100.0	0	366
EC	pm25	0.41	0.34	0.32	1.98	0.06	0.11	0.30	0.98	2.34	99.5	0	364
NO	air	0.70	1.11	0.45	2.22	-0.33	0.16	0.38	2.36	17.61	98.3	0	8633
NO2	air	2.95	2.03	2.39	1.93	0.28	0.78	2.45	7.22	16.57	98.3	0	8633
OC	pm10	3.64	3.46	2.85	1.99	0.43	0.80	3.10	7.01	38.46	100.0	0	366
OC	pm25	3.05	3.01	2.35	2.02	0.25	0.65	2.35	6.22	31.44	99.5	0	364
OC, Fraction=OC1	pm10	0.46	0.36	0.39	1.65	0.13	0.19	0.36	0.89	3.90	100.0	0	366
OC, Fraction=OC1	pm25	0.43	0.30	0.38	1.64	0.14	0.19	0.36	0.81	3.12	99.5	0	364
OC, Fraction=OC2	pm10	0.61	0.48	0.50	1.81	0.12	0.18	0.52	1.22	5.23	100.0	0	366
OC, Fraction=OC2	pm25	0.55	0.41	0.46	1.81	0.09	0.16	0.47	1.08	3.97	99.5	0	364
OC, Fraction=OC3	pm10	0.66	0.43	0.55	1.87	0.13	0.17	0.57	1.45	3.07	100.0	0	366
OC, Fraction=OC3	pm25	0.47	0.36	0.38	1.86	0.07	0.13	0.39	1.02	3.59	99.5	0	364
OC, Fraction=OC4	pm10	0.34	0.16	0.31	1.52	0.10	0.15	0.32	0.56	1.59	100.0	0	366
OC, Fraction=OC4	pm25	0.28	0.14	0.26	1.54	0.08	0.12	0.25	0.50	1.27	99.5	0	364
OC, Fraction=OCPyr	pm10	1.78	2.23	1.24	2.31	0.12	0.26	1.32	3.74	24.91	100.0	0	366
OC, Fraction=OCPyr	pm25	1.52	1.96	1.05	2.32	0.08	0.27	1.03	3.41	20.79	99.5	0	364
TC	pm10	3.81	2.34	3.18	1.87	0.51	1.01	3.47	7.21	18.81	99.2	0	363
TC	pm25	3.23	2.13	2.66	1.90	0.34	0.84	2.62	6.70	16.53	98.6	0	361

DK0003R Tange
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.12	0.11	0.09	2.16	0.00	0.03	0.09	0.35	0.77	88.3	116	324
Cl-	aerosol	1.42	1.64	0.78	3.17	0.01	0.13	0.77	5.00	9.74	88.0	43	323
HNO3+NO3-	air+aerosol	0.57	0.56	0.39	2.45	0.01	0.10	0.38	1.86	3.69	87.7	14	322
K+	aerosol	0.11	0.06	0.09	1.77	0.00	0.04	0.09	0.22	0.47	88.2	20	323
NH3	air	0.91	0.74	0.64	2.62	-0.00	0.12	0.70	2.32	4.57	83.9	10	308
NH4+	aerosol	0.72	0.70	0.49	2.51	0.02	0.10	0.48	2.29	4.50	87.4	17	321
Na+	aerosol	0.92	0.96	0.53	3.20	0.00	0.07	0.57	2.88	5.77	88.3	4	324
SO2	air	0.07	0.08	0.05	2.63	0.00	0.01	0.05	0.22	0.65	88.0	321	323
SO4--	aerosol	0.47	0.27	0.41	1.76	0.01	0.17	0.41	1.01	1.64	87.7	2	322
SO4-- corr	aerosol	0.39	0.29	0.30	2.24	-0.07	0.07	0.32	0.98	1.62	87.7	2	322

DK0005R Keldsno
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.89	2.18	0.45	2.83	-0.45	0.10	0.38	3.23	114.80	85.1	3009	7473
NO2	air	2.46	2.47	1.61	2.58	-0.63	0.32	1.68	7.54	26.69	85.1	2090	7473

DK0008R Anholt
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.13	0.10	0.10	2.23	0.00	0.02	0.11	0.31	0.73	94.5	117	347
Cl-	aerosol	2.30	2.33	1.36	3.09	0.04	0.18	1.50	7.36	12.10	93.4	19	343
HNO3+NO3-	air+aerosol	0.54	0.49	0.38	2.38	0.03	0.08	0.39	1.60	3.34	93.7	23	344
K+	aerosol	0.09	0.10	0.07	1.94	0.00	0.03	0.07	0.19	1.58	94.5	57	346
NH3	air	0.17	0.18	0.09	4.46	-0.00	0.00	0.12	0.54	1.16	94.5	152	347
NH4+	aerosol	0.58	0.58	0.38	2.52	0.03	0.07	0.39	1.85	4.13	94.5	24	347
NO	air	0.36	0.77	0.20	2.74	-1.01	0.04	0.18	1.22	31.75	81.4	4984	7150
NO2	air	1.47	1.64	0.94	2.56	-0.04	0.23	0.91	4.70	17.59	81.4	3498	7150
Na+	aerosol	1.52	1.28	1.06	2.53	0.00	0.18	1.15	4.20	6.73	94.5	1	347
SO2	air	0.10	0.10	0.07	2.43	0.00	0.02	0.07	0.31	0.67	94.5	346	347
SO4--	aerosol	0.53	0.27	0.47	1.76	0.00	0.22	0.49	1.05	1.89	93.4	1	343
SO4-- corr	aerosol	0.40	0.29	0.31	2.22	0.00	0.09	0.34	1.03	1.81	93.4	1	343

DK0010G Villum Research Station, Station Nord
January 2016 - December 2016

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	0.02	2.39	0.00	0.00	0.02	0.06	0.07	94.0	2	50
Cl-	aerosol	0.16	0.26	0.04	6.25	-0.00	0.00	0.03	0.95	1.06	99.7	39	53
HNO3+NO3-	air+aerosol	0.02	0.01	0.01	1.63	0.01	0.01	0.01	0.04	0.07	99.7	53	53
K+	aerosol	0.01	0.01	0.01	2.29	0.00	0.00	0.01	0.04	0.04	94.0	2	50
NH3	air	0.01	0.01	0.00	4.35	0.00	0.00	0.00	0.01	0.01	3.1	2	2
NH4+	aerosol	0.02	0.02	0.01	2.36	0.00	0.00	0.01	0.05	0.06	99.7	53	53
Na+	aerosol	0.14	0.17	0.07	4.10	0.00	0.00	0.07	0.57	0.69	99.7	17	53
SO2	air	0.03	0.05	0.01	4.27	0.00	0.00	0.01	0.15	0.25	99.7	53	53
SO4--	aerosol	0.07	0.08	0.04	2.73	0.00	0.01	0.04	0.25	0.28	99.7	38	53
SO4-- corr	aerosol	0.06	0.07	0.04	3.11	-0.03	0.00	0.02	0.23	0.27	98.6	38	52

DK0012R Risoe
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.16	0.18	0.10	2.46	-0.00	0.03	0.10	0.51	1.30	94.8	108	348
Cl-	aerosol	1.12	1.39	0.60	3.16	0.01	0.09	0.58	3.74	9.56	96.4	64	354
HNO3+NO3-	air+aerosol	0.74	0.60	0.54	2.41	0.00	0.13	0.58	2.04	4.05	96.2	13	353
K+	aerosol	0.11	0.14	0.08	2.10	0.00	0.02	0.08	0.23	2.38	93.9	48	344
NH3	air	0.61	0.51	0.39	3.32	-0.00	0.03	0.46	1.55	2.90	96.2	40	353
NH4+	aerosol	0.84	0.71	0.61	2.38	0.00	0.12	0.64	2.37	5.10	95.4	8	350
NO	air	0.89	3.22	0.36	3.36	-0.36	0.00	0.30	2.73	83.15	91.7	4155	8056
NO2	air	2.27	2.39	1.49	2.61	-0.28	0.28	1.48	7.14	18.75	91.7	2527	8056
Na+	aerosol	0.76	0.77	0.46	2.91	0.00	0.09	0.45	2.30	4.72	94.5	2	347
SO2	air	0.13	0.17	0.08	2.55	0.00	0.02	0.08	0.40	1.43	96.4	347	354
SO4--	aerosol	0.55	0.38	0.45	1.99	0.00	0.18	0.46	1.37	2.58	96.2	5	353
SO4-- corr	aerosol	0.47	0.40	0.35	2.41	0.00	0.09	0.37	1.35	2.57	96.2	5	353

EE0009R Lahemaa
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.09	0.20	0.04	2.96	0.02	0.02	0.02	0.44	2.08	100.0	244	367
Cl-	aerosol	0.14	0.22	0.08	2.38	0.05	0.05	0.05	0.58	1.93	100.0	258	367
K+	aerosol	0.07	0.25	0.02	3.29	0.01	0.01	0.01	0.28	4.45	100.0	224	367
Mg++	aerosol	0.02	0.03	0.01	2.00	0.01	0.01	0.01	0.08	0.30	100.0	303	367
NH4+	aerosol	1.07	0.66	0.86	2.14	0.04	0.24	0.92	2.25	4.75	100.0	8	367
NO2	air	2.17	1.73	1.67	2.09	0.15	0.50	1.74	5.88	11.85	100.0	4	366
NO3-	aerosol	0.16	0.17	0.10	2.45	0.02	0.05	0.05	0.50	1.13	100.0	207	367
Na+	aerosol	0.09	0.19	0.03	4.06	0.01	0.01	0.01	0.43	2.18	100.0	214	367
PM10 mass	pm10	5.63	2.39	5.07	1.67	0.65	2.04	5.47	10.07	11.06	98.7	0	52
PM25 mass	pm25	5.18	3.48	4.08	2.11	0.50	1.12	4.41	12.27	17.44	100.0	14	366
SO2	air	0.67	0.99	0.42	2.60	0.01	0.10	0.42	1.98	12.64	100.0	5	366
SO4--	aerosol	0.10	0.13	0.07	2.06	0.03	0.05	0.05	0.40	0.90	100.0	286	367
SO4-- corr	aerosol	0.10	0.13	0.07	2.10	0.02	0.04	0.05	0.40	0.88	100.0	286	367

EE0011R Vilsandi
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	1.51	1.23	1.16	2.09	0.15	0.39	1.14	3.56	9.98	100.0	8	366
PM25 mass	pm25	4.38	3.79	3.00	2.54	0.50	0.50	3.25	12.34	25.99	100.0	44	366
SO2	air	0.30	0.41	0.18	2.77	0.01	0.02	0.19	0.86	3.85	100.0	18	366

ES0001R San Pablo de los Montes
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.25	0.35	0.13	3.11	0.01	0.02	0.12	0.99	2.07	99.7	36	366
Ca++	pm25	0.07	0.07	0.05	2.28	0.01	0.01	0.05	0.19	0.33	16.4	2	60
Cl-	pm10	0.26	0.41	0.13	2.92	0.04	0.04	0.13	1.52	1.87	16.4	29	60
Cl-	pm25	0.09	0.06	0.08	1.78	0.04	0.04	0.05	0.20	0.32	16.4	31	60
EC	pm25	0.11	0.07	0.09	1.98	0.01	0.03	0.10	0.29	0.35	16.7	0	62
HNO3+NO3-	air+aerosol	0.35	0.21	0.30	1.75	0.03	0.14	0.30	0.74	1.67	100.0	6	367
K+	pm10	0.09	0.07	0.07	2.07	0.01	0.02	0.07	0.20	0.88	99.7	1	366
K+	pm25	0.06	0.05	0.05	2.28	0.01	0.01	0.05	0.13	0.27	16.4	2	60
Mg++	pm10	0.04	0.03	0.03	2.67	0.00	0.01	0.03	0.10	0.17	99.7	44	366
Mg++	pm25	0.01	0.01	0.01	1.52	0.00	0.00	0.01	0.03	0.04	16.4	16	60
NH3	air	2.12	1.48	1.73	1.92	0.28	0.58	1.97	4.00	9.94	85.8	0	53
NH3+NH4+	air+aerosol	1.75	0.95	1.47	1.96	0.03	0.52	1.60	3.61	4.78	100.0	0	367
NH4+	pm10	0.37	0.31	0.28	2.02	0.05	0.08	0.29	0.96	1.93	16.4	0	60
NH4+	pm25	0.24	0.21	0.19	2.00	0.04	0.05	0.18	0.64	1.34	16.4	0	60
NO	air	0.05	0.08	0.03	2.54	0.00	0.00	0.03	0.17	2.10	98.7	0	8673
NO2	air	0.37	0.50	0.23	2.60	0.01	0.05	0.21	1.19	7.69	98.7	0	8673
NO3-	pm10	0.16	0.14	0.12	2.17	0.01	0.03	0.11	0.41	1.10	99.7	6	366
NO3-	pm25	0.34	0.50	0.24	1.99	0.04	0.09	0.22	0.87	3.63	16.4	2	60
Na+	pm10	0.22	0.20	0.14	2.71	0.02	0.02	0.15	0.66	1.14	99.7	114	366
Na+	pm25	0.20	0.15	0.15	2.12	0.02	0.06	0.13	0.44	0.64	16.4	1	60
OC	pm25	1.76	0.84	1.56	1.63	0.57	0.74	1.39	3.23	4.28	16.7	0	62
PM10 mass	pm10	12.63	14.91	8.88	2.24	1.00	3.00	9.00	34.70	175.00	99.5	0	365
PM25 mass	pm25	5.60	4.30	4.39	2.06	1.00	1.00	5.00	12.00	47.00	92.9	0	341
SO2	air	0.16	0.17	0.11	2.22	0.02	0.04	0.10	0.42	8.16	99.0	0	8698
SO4--	pm10	0.34	0.19	0.28	1.87	0.02	0.09	0.30	0.69	0.96	99.7	2	366
SO4--	pm25	0.25	0.15	0.21	1.88	0.04	0.07	0.22	0.51	0.63	16.4	0	60
SO4-- corr	pm10	0.31	0.18	0.25	1.99	0.01	0.07	0.28	0.64	0.91	99.5	2	365
SO4-- corr	pm25	0.24	0.15	0.20	1.98	0.03	0.06	0.21	0.51	0.61	16.4	0	60
TC	pm25	1.87	0.90	1.67	1.63	0.62	0.77	1.46	3.46	4.63	16.7	0	61

ES0005R Noya
January 2016 - December 2016

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	0.15	0.17	2.02	0.03	0.04	0.18	0.54	1.38	97.8	39	359
NH3+NH4+	air+aerosol	0.88	0.54	0.70	2.17	0.03	0.15	0.78	1.99	2.97	98.9	0	363
NO	air	0.12	0.28	0.07	2.34	0.00	0.02	0.06	0.32	9.09	97.1	0	8527
NO2	air	1.13	1.03	0.84	2.20	0.06	0.20	0.89	2.81	17.56	97.1	0	8527
NO3-	pm10	0.20	0.17	0.14	2.78	0.01	0.02	0.16	0.54	1.09	80.0	11	293
PM10 mass	pm10	8.00	6.60	6.18	2.08	1.00	2.00	6.00	20.00	57.00	72.9	0	267
SO2	air	0.44	0.98	0.20	3.27	0.02	0.04	0.19	1.64	35.82	97.5	0	8565
SO4--	pm10	0.43	0.28	0.34	2.20	0.01	0.10	0.35	1.02	1.64	80.0	4	293

ES0006R Mahã'n
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.51	0.24	0.46	1.57	0.13	0.21	0.47	1.00	1.73	96.4	0	354
NH3+NH4+	air+aerosol	1.45	0.71	1.29	1.62	0.17	0.60	1.31	2.70	5.36	98.6	0	362
NO	air	0.12	0.57	0.06	2.26	0.00	0.02	0.05	0.27	35.88	93.5	0	8211
NO2	air	1.01	1.80	0.52	2.96	0.01	0.10	0.51	3.60	30.08	93.5	0	8211
NO3-	pm10	0.44	0.20	0.40	1.62	0.05	0.16	0.41	0.79	1.49	89.9	0	330
PM10 mass	pm10	15.68	7.93	14.42	1.47	6.00	8.05	14.00	27.00	85.00	87.2	0	320
PM25 mass	pm25	5.66	2.16	5.33	1.41	2.00	3.00	5.00	10.00	19.00	87.4	0	321
SO2	air	0.27	0.40	0.23	1.63	0.00	0.12	0.22	0.48	18.93	98.5	0	8648
SO4--	pm10	0.69	0.29	0.65	1.44	0.28	0.35	0.62	1.23	2.13	89.9	0	330

ES0007R VÄ-znar
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.41	0.37	0.26	2.92	0.01	0.04	0.31	1.14	2.85	98.4	10	361
Ca++	pm25	0.17	0.21	0.08	3.30	0.01	0.01	0.07	0.65	1.08	13.7	1	50
Cl-	pm10	0.20	0.31	0.12	2.47	0.04	0.04	0.12	0.71	2.20	16.4	25	60
Cl-	pm25	0.08	0.05	0.07	1.72	0.04	0.04	0.07	0.20	0.24	13.7	24	50
EC	pm25	0.27	0.12	0.24	1.58	0.07	0.09	0.26	0.53	0.67	16.4	0	60
HNO3+NO3-	air+aerosol	0.51	0.25	0.46	1.64	0.03	0.19	0.48	1.00	1.89	99.5	1	365
K+	pm10	0.12	0.08	0.10	2.07	0.01	0.03	0.11	0.28	0.55	98.4	1	361
K+	pm25	0.12	0.08	0.09	2.04	0.02	0.03	0.09	0.30	0.33	13.7	0	50
Mg++	pm10	0.05	0.04	0.04	2.63	0.00	0.01	0.04	0.15	0.29	98.4	21	361
Mg++	pm25	0.02	0.02	0.02	2.07	0.00	0.00	0.01	0.08	0.10	13.7	7	50
NH3	air	1.57	0.93	1.27	2.10	0.20	0.21	1.52	3.73	4.03	91.0	0	27
NH3+NH4+	air+aerosol	1.59	0.78	1.36	1.85	0.09	0.37	1.54	3.02	4.22	99.5	0	365
NH4+	pm10	0.55	0.42	0.44	1.96	0.13	0.14	0.41	1.22	2.23	16.4	0	60
NH4+	pm25	0.23	0.19	0.19	1.78	0.06	0.09	0.17	0.65	1.22	13.7	0	50
NO	air	0.30	0.87	0.09	3.83	0.00	0.01	0.07	1.20	16.22	98.9	0	8689
NO2	air	1.13	1.67	0.53	3.56	0.00	0.06	0.54	4.25	23.23	98.9	0	8689
NO3-	pm10	0.24	0.17	0.19	2.07	0.01	0.06	0.20	0.54	1.48	98.4	2	361
NO3-	pm25	0.45	0.58	0.33	2.01	0.04	0.13	0.31	1.70	3.36	13.7	1	50
Na+	pm10	0.23	0.22	0.15	2.71	0.02	0.02	0.18	0.68	1.37	98.4	93	361
Na+	pm25	0.18	0.12	0.15	1.99	0.02	0.05	0.12	0.40	0.58	13.7	1	50
OC	pm25	2.70	1.56	2.42	1.58	0.62	1.24	2.58	4.20	12.37	16.4	0	60
PM10 mass	pm10	17.54	17.17	12.45	2.34	2.00	3.00	14.00	47.00	218.00	98.4	0	361
PM25 mass	pm25	9.61	8.72	7.27	2.08	1.00	2.00	7.00	22.95	76.00	70.8	0	260
SO2	air	0.33	0.37	0.22	2.73	0.00	0.03	0.26	0.86	11.45	98.1	0	8616
SO4--	pm10	0.37	0.21	0.31	1.89	0.02	0.10	0.33	0.70	1.17	98.4	1	361
SO4--	pm25	0.29	0.16	0.24	1.87	0.04	0.07	0.26	0.64	0.72	13.7	0	50
SO4-- corr	pm10	0.34	0.19	0.28	1.91	-0.05	0.09	0.30	0.66	1.07	98.4	1	361
SO4-- corr	pm25	0.28	0.15	0.23	1.92	0.04	0.06	0.24	0.61	0.71	13.7	0	50
TC	pm25	2.96	1.61	2.68	1.55	0.71	1.40	2.90	4.57	12.62	16.4	0	60

ES0008R Niembro
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.19	0.14	0.15	2.31	0.01	0.02	0.16	0.46	0.82	98.9	26	363
Ca++	pm25	0.07	0.07	0.05	2.07	0.01	0.02	0.05	0.16	0.41	16.4	0	60
Cl-	pm10	1.63	1.89	0.82	3.92	0.04	0.04	1.06	6.40	9.95	16.4	7	60
Cl-	pm25	0.25	0.31	0.14	2.84	0.04	0.04	0.12	1.12	1.22	16.4	20	60
HNO3+NO3-	air+aerosol	0.48	0.34	0.39	1.86	0.04	0.17	0.38	1.26	2.35	100.0	3	367
K+	pm10	0.15	0.08	0.13	1.76	0.01	0.05	0.14	0.31	0.58	98.9	1	363
K+	pm25	0.08	0.07	0.06	2.32	0.01	0.01	0.07	0.26	0.28	16.4	2	60
Mg++	pm10	0.18	0.14	0.14	2.21	0.00	0.03	0.15	0.43	1.31	98.9	1	363
Mg++	pm25	0.03	0.03	0.03	1.86	0.00	0.01	0.03	0.09	0.17	16.4	3	60
NH3	air	1.10	1.00	0.79	2.33	0.06	0.14	0.80	3.19	5.64	85.8	0	53
NH3+NH4+	air+aerosol	1.31	0.62	1.16	1.74	0.02	0.49	1.19	2.58	3.39	100.0	0	367
NH4+	pm10	0.32	0.37	0.21	2.32	0.04	0.06	0.16	1.30	1.83	16.4	0	60
NH4+	pm25	0.16	0.20	0.10	2.38	0.03	0.03	0.09	0.67	1.07	16.4	0	60
NO	air	0.22	0.33	0.14	2.50	0.00	0.03	0.12	0.76	5.86	98.3	0	8631
NO2	air	0.82	0.82	0.53	2.62	0.00	0.10	0.55	2.46	11.34	98.3	0	8631
NO3-	pm10	0.26	0.25	0.18	2.57	0.01	0.04	0.20	0.69	2.00	98.9	9	363
NO3-	pm25	0.07	0.08	0.05	2.49	0.01	0.01	0.05	0.25	0.44	16.4	9	60
Na+	pm10	1.47	1.25	1.07	2.38	0.02	0.22	1.20	3.68	10.59	98.9	3	363
Na+	pm25	0.40	0.25	0.34	1.82	0.10	0.13	0.35	0.85	1.45	16.4	0	60
PM10 mass	pm10	14.92	6.70	13.50	1.59	2.00	6.00	14.00	28.00	50.00	98.9	0	363
PM25 mass	pm25	5.54	3.26	4.78	1.72	1.00	2.00	5.00	12.40	21.00	95.6	0	351
SO2	air	0.24	0.33	0.15	2.45	0.00	0.04	0.15	0.78	5.31	97.5	0	8563
SO4--	pm10	0.64	0.41	0.54	1.77	0.11	0.19	0.55	1.44	3.76	98.9	0	363
SO4--	pm25	0.40	0.28	0.33	1.88	0.08	0.12	0.32	1.03	1.42	16.4	0	60
SO4-- corr	pm10	0.52	0.42	0.40	2.05	-0.11	0.12	0.42	1.37	3.69	98.9	0	363
SO4-- corr	pm25	0.38	0.28	0.30	2.04	0.06	0.07	0.30	1.02	1.38	16.4	0	60

ES0009R Campisabalos
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.23	0.27	0.13	3.13	0.01	0.02	0.12	0.82	1.45	97.5	37	358
Ca++	pm25	0.10	0.14	0.06	2.58	0.01	0.01	0.07	0.32	0.87	16.4	3	60
Cl-	pm10	0.19	0.20	0.13	2.39	0.04	0.04	0.14	0.48	1.13	16.4	24	60
Cl-	pm25	0.12	0.09	0.09	2.00	0.04	0.04	0.10	0.29	0.41	16.4	26	60
EC	pm25	0.10	0.10	0.08	2.27	0.00	0.00	0.08	0.24	0.70	15.8	0	58
HNO3+NO3-	air+aerosol	0.31	0.16	0.27	1.81	0.03	0.13	0.27	0.61	1.32	89.7	13	329
K+	pm10	0.04	0.04	0.03	2.21	0.01	0.01	0.03	0.12	0.27	97.5	36	358
K+	pm25	0.03	0.02	0.02	2.12	0.01	0.01	0.02	0.08	0.12	16.4	11	60
Mg++	pm10	0.02	0.02	0.01	2.93	0.00	0.00	0.02	0.06	0.11	97.5	113	358
Mg++	pm25	0.01	0.01	0.01	1.48	0.00	0.00	0.01	0.03	0.03	16.4	16	60
NH3	air	1.07	0.91	0.79	2.29	0.00	0.13	0.82	3.17	4.70	85.8	0	53
NH3+NH4+	air+aerosol	1.14	0.60	0.91	2.26	0.03	0.11	1.08	2.18	3.22	98.4	0	361
NH4+	pm10	0.30	0.23	0.24	1.95	0.04	0.05	0.22	0.84	1.13	16.4	0	60
NH4+	pm25	0.19	0.14	0.15	1.88	0.04	0.04	0.14	0.49	0.86	16.4	0	60
NO	air	0.07	0.17	0.04	2.47	0.00	0.01	0.04	0.19	11.92	94.8	0	8323
NO2	air	0.86	0.73	0.66	2.04	0.05	0.22	0.61	2.32	11.17	94.8	0	8323
NO3-	pm10	0.10	0.09	0.07	2.38	0.01	0.01	0.07	0.27	0.60	97.5	30	358
NO3-	pm25	0.35	0.43	0.23	2.48	0.04	0.04	0.22	1.19	2.88	16.4	6	60
Na+	pm10	0.13	0.12	0.09	2.51	0.02	0.02	0.09	0.39	0.79	97.5	175	358
Na+	pm25	0.19	0.14	0.14	2.25	0.02	0.04	0.12	0.42	0.46	16.4	2	60
OC	pm25	1.61	0.84	1.41	1.69	0.48	0.54	1.34	3.18	4.11	15.8	0	58
PM10 mass	pm10	9.81	15.38	6.32	2.47	1.00	2.00	7.00	25.00	200.00	96.4	0	354
PM10 mass	pm10	14.04	30.12	8.86	2.34	0.69	2.51	8.31	36.38	796.68	90.2	0	7921
PM25 mass	pm25	4.10	4.32	3.01	2.13	1.00	1.00	3.00	10.00	48.00	81.1	0	298
SO2	air	0.24	0.14	0.21	1.56	0.02	0.10	0.21	0.44	3.80	95.7	0	8404
SO4--	pm10	0.28	0.18	0.22	2.18	0.02	0.06	0.24	0.61	0.86	97.5	5	358
SO4--	pm25	0.22	0.16	0.17	2.12	0.04	0.04	0.18	0.56	0.69	16.4	0	60
SO4-- corr	pm10	0.27	0.18	0.20	2.30	0.01	0.05	0.22	0.58	0.82	97.5	5	358
SO4-- corr	pm25	0.21	0.15	0.16	2.24	0.03	0.03	0.17	0.55	0.68	16.4	0	60
TC	pm25	1.71	0.90	1.49	1.70	0.50	0.55	1.45	3.39	4.35	15.8	0	58

ES0010R Cabo de Creus
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.63	0.52	0.51	1.93	0.03	0.20	0.49	1.61	4.77	97.5	2	358
NH3+NH4+	air+aerosol	1.30	0.55	1.18	1.60	0.19	0.52	1.25	2.24	3.33	94.8	0	348
NO	air	0.17	0.26	0.09	3.13	0.00	0.01	0.07	0.65	5.15	97.5	0	8561
NO2	air	1.43	0.98	1.18	1.88	0.00	0.43	1.17	3.35	12.39	97.5	0	8561
NO3-	pm10	0.43	0.28	0.36	1.87	0.06	0.12	0.35	1.02	1.96	94.8	0	348
PM10 mass	pm10	15.78	6.85	14.68	1.44	5.00	8.00	14.00	26.65	66.00	94.3	0	346
PM25 mass	pm25	6.17	2.72	5.67	1.51	1.00	3.00	6.00	11.00	24.00	87.2	0	320
SO2	air	0.26	0.13	0.23	1.64	0.03	0.10	0.24	0.48	2.08	98.7	0	8672
SO4--	pm10	0.53	0.27	0.47	1.64	0.11	0.22	0.46	1.05	1.48	94.8	0	348

ES0011R Barcarrota
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.31	0.16	0.26	1.96	0.03	0.04	0.28	0.61	0.88	98.6	24	362
NH3+NH4+	air+aerosol	1.31	0.67	1.05	2.29	0.03	0.11	1.26	2.48	3.03	98.4	0	361
NO	air	0.16	0.17	0.11	2.24	0.00	0.03	0.11	0.48	5.94	93.4	0	8204
NO2	air	0.66	0.41	0.53	2.04	0.01	0.12	0.61	1.35	6.74	93.4	0	8204
NO3-	pm10	0.22	0.13	0.19	1.89	0.02	0.06	0.20	0.49	0.80	94.8	0	348
PM10 mass	pm10	14.83	13.69	11.84	1.87	2.00	5.00	11.00	36.65	169.00	94.3	0	346
PM25 mass	pm25	6.52	4.35	5.39	1.86	1.00	2.00	5.00	14.00	33.00	91.3	0	335
SO2	air	0.20	0.14	0.17	1.71	0.02	0.08	0.16	0.45	2.22	96.9	0	8510
SO4--	pm10	0.41	0.27	0.34	1.83	0.02	0.13	0.34	0.94	1.74	94.8	0	348

ES0012R Zarra
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm25	0.18	0.13	0.15	1.85	0.03	0.05	0.15	0.34	0.88	15.3	0	56
HNO3+NO3-	air+aerosol	0.48	0.26	0.42	1.71	0.03	0.17	0.44	0.94	2.18	99.6	2	365
NH3+NH4+	air+aerosol	1.47	0.66	1.25	2.00	0.03	0.46	1.45	2.61	3.66	99.7	0	366
NO	air	0.05	0.06	0.04	2.22	0.00	0.01	0.03	0.14	1.43	98.5	0	8649
NO2	air	0.80	0.47	0.68	1.82	0.01	0.28	0.69	1.73	4.71	98.5	0	8649
NO3-	pm10	0.33	0.18	0.27	2.00	0.01	0.07	0.32	0.67	0.94	98.1	1	360
OC	pm25	2.31	1.06	2.11	1.52	0.71	0.96	2.09	4.16	6.96	15.3	0	56
PM10 mass	pm10	11.79	11.61	9.05	2.01	2.00	3.00	9.00	26.00	152.00	98.1	0	360
PM10 mass	pm10	14.81	16.65	10.76	2.16	0.55	3.08	10.74	37.16	294.55	87.6	0	7694
PM25 mass	pm25	5.30	3.63	4.44	1.83	1.00	2.00	5.00	10.00	44.00	97.5	0	358
SO2	air	0.30	0.13	0.27	1.49	0.06	0.14	0.27	0.56	1.77	99.1	0	8706
SO4--	pm10	0.46	0.29	0.37	2.05	0.01	0.11	0.37	1.00	1.74	98.1	1	360
TC	pm25	2.49	1.10	2.29	1.51	0.78	1.02	2.24	4.44	7.22	15.3	0	56

ES0013R Penausende
January 2016 - December 2016

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	0.28	1.69	0.03	0.15	0.27	0.68	2.03	97.3	5	357
NH3+NH4+	air+aerosol	1.17	0.52	1.06	1.60	0.28	0.45	1.11	2.10	2.83	98.4	0	361
NO	air	0.06	0.09	0.05	2.26	0.00	0.01	0.04	0.17	2.94	98.9	0	8684
NO2	air	0.31	0.29	0.22	2.23	0.01	0.06	0.22	0.81	4.20	98.9	0	8684
NO3-	pm10	0.18	0.16	0.13	2.29	0.01	0.03	0.14	0.54	1.04	86.1	2	316
PM10 mass	pm10	8.02	7.13	6.21	2.01	1.00	2.00	6.00	19.50	66.00	84.2	0	309
PM10 mass	pm10	11.82	13.47	8.10	2.60	0.00	1.58	8.83	30.84	289.11	90.1	0	7916
PM25 mass	pm25	4.12	3.04	3.26	2.01	1.00	1.00	3.00	10.00	26.00	90.6	0	332
SO2	air	0.16	0.16	0.13	1.90	0.03	0.06	0.12	0.40	2.63	98.9	0	8684
SO4--	pm10	0.28	0.16	0.24	1.91	0.03	0.07	0.26	0.59	1.10	86.1	0	316

ES0014R Els Torms
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.29	0.34	0.20	2.44	0.01	0.04	0.22	0.77	4.86	95.1	2	349
Ca++	pm25	0.13	0.10	0.10	2.04	0.02	0.03	0.09	0.34	0.55	16.4	0	60
Cl-	pm10	0.15	0.13	0.12	2.10	0.04	0.04	0.11	0.50	0.60	16.4	12	60
Cl-	pm25	0.12	0.09	0.09	2.08	0.04	0.04	0.05	0.32	0.39	16.4	32	60
EC	pm25	0.13	0.08	0.11	1.78	0.00	0.04	0.11	0.30	0.34	15.3	0	56
HNO3+NO3-	air+aerosol	0.44	0.36	0.35	1.88	0.10	0.14	0.34	1.19	2.46	97.0	0	356
K+	pm10	0.11	0.12	0.08	2.03	0.01	0.03	0.07	0.30	1.21	95.1	1	349
K+	pm25	0.08	0.09	0.06	2.25	0.01	0.02	0.05	0.27	0.52	16.4	0	60
Mg++	pm10	0.04	0.03	0.03	2.65	0.00	0.01	0.04	0.12	0.17	95.1	18	349
Mg++	pm25	0.02	0.01	0.02	1.58	0.00	0.00	0.01	0.03	0.04	16.4	10	60
NH3	air	3.77	1.72	3.37	1.62	1.28	1.41	3.23	7.29	7.67	85.8	0	53
NH3+NH4+	air+aerosol	2.92	1.12	2.67	1.63	0.12	1.32	2.78	4.96	5.92	98.4	0	361
NH4+	pm10	0.65	0.55	0.48	2.27	0.05	0.14	0.49	1.82	3.05	16.4	0	60
NH4+	pm25	0.41	0.35	0.29	2.41	0.04	0.04	0.28	1.33	1.52	16.4	0	60
NO	air	0.10	0.17	0.07	1.96	0.02	0.03	0.06	0.26	3.22	98.4	0	8645
NO2	air	1.04	0.73	0.87	1.77	0.13	0.37	0.85	2.28	11.02	98.4	0	8645
NO3-	pm10	0.23	0.27	0.16	2.14	0.02	0.06	0.15	0.70	2.10	95.1	0	349
NO3-	pm25	0.70	1.16	0.36	2.84	0.04	0.09	0.31	3.58	6.42	16.4	2	60
Na+	pm10	0.34	0.22	0.28	1.97	0.02	0.08	0.29	0.78	1.20	95.1	1	349
Na+	pm25	0.24	0.16	0.19	1.90	0.08	0.08	0.14	0.52	0.55	16.4	0	60
OC	pm25	1.88	0.67	1.75	1.49	0.44	0.84	1.84	3.16	3.98	15.3	0	56
PM10 mass	pm10	12.00	8.42	10.19	1.76	2.00	4.00	11.00	26.00	103.00	95.1	0	349
PM25 mass	pm25	6.19	4.10	5.07	1.93	1.00	2.00	6.00	13.40	29.00	90.2	0	331
SO2	air	0.39	0.24	0.36	1.46	0.14	0.22	0.34	0.76	10.82	98.9	0	8688
SO4--	pm10	0.44	0.28	0.36	1.93	0.06	0.11	0.38	1.00	1.92	95.1	0	349
SO4--	pm25	0.42	0.27	0.34	1.98	0.06	0.09	0.36	1.03	1.28	16.4	0	60
SO4-- corr	pm10	0.41	0.27	0.33	2.02	0.05	0.09	0.35	0.97	1.83	95.1	0	349
SO4-- corr	pm25	0.41	0.27	0.33	2.07	0.04	0.08	0.35	1.01	1.27	16.4	0	60
TC	pm25	2.01	0.73	1.87	1.50	0.44	0.91	1.94	3.38	4.31	15.3	0	56

ES0016R O SaviĀtao
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3+NO3-	air+aerosol	0.33	0.20	0.28	1.76	0.04	0.14	0.29	0.64	2.22	100.0	11	367
NH3+NH4+	air+aerosol	1.65	0.78	1.46	1.67	0.10	0.63	1.50	3.09	4.99	99.2	0	364
NO	air	0.15	0.20	0.11	1.86	0.03	0.05	0.10	0.39	2.81	98.6	0	8658
NO2	air	0.91	0.69	0.70	2.11	0.05	0.19	0.74	2.20	6.12	98.6	0	8658
NO3-	pm10	0.16	0.16	0.12	2.25	0.01	0.02	0.14	0.33	2.42	94.0	7	345
PM10 mass	pm10	8.87	5.96	7.54	1.75	0.66	3.01	7.60	18.30	73.05	94.5	0	8302
PM10 mass	pm10	8.95	5.70	7.75	1.70	2.00	3.00	8.00	17.00	60.00	94.0	0	345
PM25 mass	pm25	7.57	5.35	6.31	1.84	1.00	2.00	7.00	14.00	58.00	70.5	0	259
SO2	air	0.17	0.19	0.14	1.84	0.01	0.06	0.12	0.43	4.36	96.7	0	8498
SO4--	pm10	0.41	0.31	0.33	1.92	0.04	0.10	0.34	0.97	3.80	94.0	0	345

ES0017R DoĀtana
January 2016 - December 2016

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	0.28	0.50	1.62	0.14	0.23	0.49	1.16	1.69	99.2	0	364
NH3+NH4+	air+aerosol	1.56	0.75	1.37	1.75	0.06	0.58	1.44	2.95	5.23	99.5	0	365
NO	air	0.13	0.17	0.10	1.92	0.00	0.04	0.08	0.34	2.99	96.6	0	8481
NO2	air	0.55	0.68	0.35	2.44	0.02	0.10	0.31	1.90	10.78	96.6	0	8481
NO3-	pm10	0.41	0.24	0.34	1.91	0.04	0.10	0.35	0.89	1.54	94.8	0	348
PM10 mass	pm10	17.84	18.81	14.79	1.73	2.00	6.00	14.00	34.00	245.00	90.4	0	332
SO2	air	0.18	0.36	0.15	1.59	0.05	0.08	0.14	0.34	27.54	96.9	0	8510
SO4--	pm10	0.72	0.49	0.59	1.85	0.14	0.21	0.53	1.79	2.65	94.8	0	348

ES1778R Montseny
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
EC	pm1	0.19	0.06	0.18	1.41	0.07	0.09	0.18	0.29	0.47	23.8	0	87
EC	pm10	0.21	0.07	0.20	1.41	0.07	0.10	0.20	0.33	0.57	24.3	0	89
EC	pm25	0.18	0.08	0.16	1.68	0.01	0.07	0.17	0.33	0.48	15.0	0	55
OC	pm1	1.18	0.47	1.09	1.51	0.38	0.50	1.14	2.02	2.66	23.8	0	87
OC	pm10	1.36	0.59	1.24	1.58	0.32	0.56	1.31	2.56	2.94	24.3	0	89
OC	pm25	1.09	0.45	0.99	1.57	0.26	0.43	1.02	1.95	2.20	15.0	0	55
OC, Fraction=OC1	pm1	0.30	0.13	0.28	1.51	0.08	0.14	0.29	0.57	0.77	23.8	0	87
OC, Fraction=OC1	pm10	0.22	0.10	0.20	1.53	0.07	0.10	0.20	0.43	0.55	24.3	0	89
OC, Fraction=OC1	pm25	0.21	0.09	0.19	1.55	0.05	0.09	0.20	0.35	0.60	15.0	0	55
OC, Fraction=OC2	pm1	0.23	0.11	0.21	1.68	0.06	0.08	0.22	0.45	0.57	23.8	0	87
OC, Fraction=OC2	pm10	0.23	0.11	0.20	1.73	0.04	0.08	0.20	0.45	0.58	24.3	0	89
OC, Fraction=OC2	pm25	0.19	0.09	0.16	1.67	0.03	0.06	0.17	0.36	0.45	15.0	0	55
OC, Fraction=OC3	pm1	0.17	0.08	0.15	1.65	0.03	0.05	0.16	0.32	0.40	23.8	0	87
OC, Fraction=OC3	pm10	0.33	0.16	0.30	1.68	0.06	0.12	0.30	0.67	0.83	24.3	0	89
OC, Fraction=OC3	pm25	0.20	0.09	0.17	1.80	0.02	0.05	0.18	0.42	0.47	15.0	0	55
OC, Fraction=OC4	pm1	0.17	0.06	0.16	1.41	0.06	0.08	0.17	0.27	0.30	23.8	0	87
OC, Fraction=OC4	pm10	0.26	0.08	0.24	1.43	0.08	0.13	0.25	0.40	0.50	24.3	0	89
OC, Fraction=OC4	pm25	0.18	0.06	0.17	1.46	0.06	0.08	0.18	0.28	0.38	15.0	0	55
OC, Fraction=OC4Pyr	pm1	0.28	0.16	0.22	2.23	0.01	0.04	0.28	0.59	0.67	23.8	0	87
OC, Fraction=OC4Pyr	pm10	0.30	0.18	0.24	2.05	0.03	0.08	0.26	0.64	0.78	24.3	0	89
OC, Fraction=OC4Pyr	pm25	0.30	0.19	0.24	2.03	0.04	0.07	0.31	0.66	0.84	15.0	0	55
TC	pm1	1.37	0.50	1.28	1.47	0.45	0.65	1.32	2.27	2.95	23.8	0	87
TC	pm10	1.57	0.64	1.44	1.54	0.41	0.68	1.54	2.84	3.28	24.3	0	89
TC	pm25	1.27	0.50	1.17	1.53	0.33	0.54	1.27	2.15	2.68	15.0	0	55

FI0009R UtĀĀ
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.06	0.05	0.04	2.13	0.01	0.01	0.04	0.15	0.41	98.3	0	361
Cl-	aerosol	0.48	0.70	0.15	7.10	0.00	0.00	0.24	2.15	4.62	98.3	32	361
HNO3	air	0.11	0.11	0.06	3.09	0.00	0.01	0.07	0.33	0.86	96.1	4	353
HNO3+NO3-	air+aerosol	0.27	0.23	0.19	2.39	0.02	0.04	0.20	0.70	1.75	95.8	1	352
K+	aerosol	0.04	0.03	0.03	1.97	0.00	0.01	0.03	0.09	0.23	98.3	1	361
Mg++	aerosol	0.06	0.05	0.04	2.41	0.00	0.01	0.05	0.17	0.33	98.3	0	361
NH3	air	0.08	0.08	0.05	3.12	0.00	0.00	0.06	0.25	0.57	98.3	38	361
NH3+NH4+	air+aerosol	0.29	0.28	0.20	2.48	0.01	0.03	0.21	0.89	1.97	98.0	0	360
NH4+	aerosol	0.21	0.25	0.11	3.77	0.00	0.01	0.13	0.71	1.93	98.3	11	361
NO	air	0.23	0.44	0.13	2.42	0.02	0.06	0.09	0.85	9.78	99.5	0	8741
NO2	air	0.95	0.90	0.69	2.20	-0.40	0.20	0.69	2.57	11.39	99.5	0	8741
NO3-	aerosol	0.16	0.19	0.10	2.71	0.00	0.02	0.10	0.51	1.54	98.3	1	361
Na+	aerosol	0.48	0.48	0.31	2.85	0.00	0.04	0.34	1.53	2.93	98.3	2	361
PM25 mass	pm25	3.85	4.12	3.07	2.67	-0.50	-0.50	3.00	11.30	39.10	98.7	0	8668
SO2	air	0.15	0.27	0.09	2.70	0.01	0.02	0.09	0.43	2.93	96.1	11	353
SO4--	aerosol	0.29	0.21	0.22	2.09	0.03	0.06	0.23	0.66	1.17	98.3	0	361
SO4-- corr	aerosol	0.25	0.21	0.16	2.79	-0.01	0.02	0.18	0.64	1.12	98.3	0	361

FI0018R Virolahti III
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.06	0.07	0.04	2.79	0.00	0.01	0.03	0.20	0.43	99.0	4	363
Cl-	aerosol	0.10	0.25	0.02	5.93	0.00	0.00	0.02	0.40	2.06	99.0	91	363
HNO3	air	0.08	0.07	0.05	2.61	0.00	0.01	0.06	0.21	0.47	99.5	3	365
HNO3+NO3-	air+aerosol	0.17	0.16	0.12	2.50	0.01	0.03	0.13	0.47	1.15	99.0	0	363
K+	aerosol	0.05	0.03	0.04	2.09	0.00	0.01	0.04	0.12	0.23	99.0	3	363
Mg++	aerosol	0.02	0.03	0.02	2.71	0.00	0.00	0.02	0.07	0.16	99.0	3	363
NH3	air	0.11	0.11	0.06	3.77	0.00	0.00	0.07	0.35	0.69	99.2	49	364
NH3+NH4+	air+aerosol	0.33	0.26	0.25	2.30	0.01	0.06	0.27	0.86	1.66	98.7	0	362
NH4+	aerosol	0.23	0.22	0.14	3.32	0.00	0.02	0.16	0.70	1.55	99.0	5	363
NO	air	0.27	0.77	0.14	2.50	0.04	0.06	0.10	0.86	16.84	99.6	0	8749
NO2	air	1.29	1.27	0.94	2.17	-0.46	0.28	0.91	3.42	14.65	99.6	0	8749
NO3-	aerosol	0.10	0.12	0.05	3.23	0.00	0.01	0.06	0.29	1.09	99.0	8	363
Na+	aerosol	0.17	0.23	0.09	3.20	0.00	0.02	0.10	0.61	1.54	99.0	2	363
PM10 mass	pm10	8.90	5.76	7.23	1.99	-2.12	2.23	7.69	19.65	54.36	94.7	0	8320
PM25 mass	pm25	6.03	4.11	4.87	1.95	0.20	1.70	4.90	14.30	33.00	99.7	0	8758
SO2	air	0.24	0.45	0.13	2.80	0.01	0.03	0.13	0.67	5.62	99.5	4	365
SO2	air	0.56	1.17	0.27	3.14	-0.01	0.05	0.23	1.99	24.10	99.6	0	8745
SO4--	aerosol	0.32	0.24	0.24	2.30	0.00	0.06	0.27	0.77	2.00	99.0	2	363
SO4-- corr	aerosol	0.30	0.24	0.22	2.48	0.00	0.04	0.26	0.77	1.98	99.0	2	363

FI0022R Oulanka
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.01	0.01	0.01	1.82	0.00	0.00	0.01	0.04	0.07	97.5	0	52
Cl-	aerosol	0.03	0.06	0.01	6.55	0.00	0.00	0.00	0.21	0.29	97.5	22	52
HNO3	air	0.03	0.02	0.03	1.94	0.01	0.01	0.03	0.09	0.12	97.5	0	52
HNO3+NO3-	air+aerosol	0.04	0.02	0.04	1.70	0.02	0.02	0.04	0.09	0.14	97.5	0	52
K+	aerosol	0.02	0.01	0.02	1.61	0.01	0.01	0.02	0.04	0.04	97.5	0	52
Mg++	aerosol	0.01	0.01	0.01	1.80	0.00	0.00	0.01	0.03	0.03	97.5	0	52
NH3	air	0.02	0.02	0.01	4.13	0.00	0.00	0.02	0.08	0.09	95.6	8	51
NH3+NH4+	air+aerosol	0.12	0.07	0.10	1.84	0.03	0.03	0.11	0.23	0.36	95.6	0	51
NH4+	aerosol	0.09	0.06	0.07	1.96	0.02	0.03	0.07	0.23	0.28	97.5	0	52
NO	air	0.11	0.13	0.10	1.24	0.07	0.08	0.10	0.15	11.21	99.3	0	8719
NO2	air	0.33	0.20	0.29	1.64	-0.06	0.15	0.26	0.72	2.15	99.3	0	8719
NO3-	aerosol	0.01	0.01	0.01	2.78	0.00	0.00	0.01	0.04	0.04	97.5	5	52
Na+	aerosol	0.09	0.07	0.06	2.23	0.01	0.02	0.06	0.24	0.29	97.5	0	52
SO2	air	0.21	0.33	0.11	2.90	0.01	0.02	0.11	0.89	2.02	97.5	0	52
SO4--	aerosol	0.23	0.13	0.20	1.69	0.07	0.08	0.19	0.53	0.74	97.5	0	52
SO4-- corr	aerosol	0.22	0.13	0.19	1.74	0.06	0.07	0.19	0.52	0.74	97.5	0	52

FI0036R Pallas (Matorova)
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.01	0.01	0.01	2.75	0.00	0.00	0.01	0.03	0.13	93.7	55	350
Cl-	aerosol	0.12	0.22	0.02	7.43	0.00	0.00	0.02	0.60	1.42	93.7	111	350
HNO3	air	0.02	0.03	0.01	2.76	0.00	0.00	0.01	0.06	0.30	94.2	46	352
HNO3+NO3-	air+aerosol	0.04	0.04	0.03	2.25	0.00	0.01	0.03	0.11	0.38	93.7	27	350
K+	aerosol	0.01	0.01	0.01	2.55	0.00	0.00	0.01	0.03	0.08	93.7	30	350
Mg++	aerosol	0.01	0.02	0.01	3.04	0.00	0.00	0.01	0.05	0.11	93.7	21	350
NH3	air	0.02	0.03	0.01	2.75	0.00	0.00	0.01	0.06	0.28	92.3	140	345
NH3+NH4+	air+aerosol	0.09	0.09	0.07	2.44	0.00	0.01	0.07	0.28	0.75	93.7	0	350
NH4+	aerosol	0.07	0.08	0.04	3.10	0.00	0.01	0.05	0.24	0.47	93.7	4	350
NO3-	aerosol	0.02	0.02	0.01	2.89	0.00	0.00	0.01	0.05	0.23	93.7	69	350
Na+	aerosol	0.11	0.15	0.05	4.18	0.00	0.00	0.06	0.41	0.96	93.7	5	350
PM25 mass	pm25	2.64	2.22	2.50	2.20	-1.60	-0.60	2.60	6.60	18.00	90.9	0	7985
SO2	air	0.12	0.35	0.03	4.02	0.01	0.01	0.03	0.44	3.51	94.2	86	352
SO4--	aerosol	0.16	0.16	0.10	2.63	0.00	0.02	0.11	0.50	0.95	93.7	1	350
SO4-- corr	aerosol	0.15	0.16	0.09	3.21	0.00	0.01	0.10	0.49	0.95	93.7	1	350

FI0037R Ähtäri II
 January 2016 - December 2016

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	2.35	0.00	0.01	0.02	0.05	0.10	98.3	1	52
Cl-	aerosol	0.04	0.09	0.01	7.15	0.00	0.00	0.01	0.22	0.53	98.3	15	52
HNO3	air	0.06	0.03	0.05	2.23	0.00	0.01	0.05	0.13	0.14	98.3	1	52
HNO3+NO3-	air+aerosol	0.09	0.05	0.07	2.10	0.00	0.03	0.08	0.18	0.27	98.3	1	52
K+	aerosol	0.04	0.02	0.03	2.50	0.00	0.01	0.03	0.08	0.09	98.3	1	52
Mg++	aerosol	0.01	0.01	0.01	2.38	0.00	0.00	0.01	0.03	0.05	98.3	1	52
NH3	air	0.07	0.06	0.03	4.54	0.00	0.00	0.04	0.19	0.20	96.4	4	51
NH3+NH4+	air+aerosol	0.20	0.09	0.16	2.37	0.00	0.06	0.19	0.35	0.48	96.4	1	51
NH4+	aerosol	0.13	0.08	0.10	2.61	0.00	0.01	0.11	0.29	0.35	98.3	1	52
NO	air	0.10	0.13	0.08	1.77	-0.01	0.04	0.08	0.18	4.81	99.7	0	8759
NO2	air	0.56	0.47	0.44	1.91	0.05	0.17	0.41	1.47	5.57	99.7	0	8759
NO3-	aerosol	0.03	0.03	0.02	3.73	0.00	0.00	0.02	0.12	0.13	98.3	2	52
Na+	aerosol	0.11	0.08	0.07	3.22	0.00	0.01	0.08	0.29	0.41	98.3	1	52
SO2	air	0.11	0.13	0.07	2.69	0.00	0.02	0.07	0.43	0.70	98.3	1	52
SO4--	aerosol	0.22	0.11	0.18	2.43	0.00	0.05	0.20	0.43	0.49	98.3	1	52
SO4-- corr	aerosol	0.21	0.11	0.17	2.50	0.00	0.04	0.19	0.42	0.47	98.3	1	52

FI0050R Hyttiälä
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM1 mass	pm1	2.90	1.96	2.31	1.99	0.45	0.69	2.67	5.75	12.91	85.8	0	128
PM10 mass	pm10	4.93	3.86	4.05	1.86	0.68	1.54	4.18	11.09	31.65	85.8	0	128
PM25 mass	pm25	3.81	2.55	3.17	1.82	0.60	1.13	3.36	7.64	18.72	85.8	0	128

FI0096G Pallas (Sammaltunturi)
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.03	0.02	0.03	1.52	-0.02	0.02	0.03	0.06	0.28	97.0	0	8522
NO2	air	0.29	0.15	0.27	1.52	0.10	0.15	0.24	0.58	1.68	97.0	0	8523
PM10 mass	pm10	2.82	4.30	1.96	5.11	-0.00	-0.00	2.10	8.28	108.91	98.0	0	8606

FR0009R Revin
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.02	0.02	2.74	0.00	0.00	0.02	0.07	0.10	15.8	13	58
Cl-	pm25	0.03	0.04	0.02	2.23	0.01	0.01	0.01	0.15	0.22	15.8	41	58
EC	pm25	0.18	0.11	0.15	1.95	0.03	0.04	0.14	0.44	0.48	15.8	0	58
K+	pm25	0.05	0.04	0.04	2.18	0.01	0.01	0.03	0.16	0.19	15.8	16	58
Mg++	pm25	0.01	0.01	0.01	2.41	0.00	0.00	0.01	0.03	0.04	15.8	1	58
NH4+	pm25	0.21	0.23	0.13	2.82	0.01	0.02	0.12	0.78	0.99	15.8	0	58
NO3-	pm25	0.41	0.61	0.11	6.13	0.00	0.00	0.11	1.64	3.02	15.8	0	58
Na+	pm25	0.08	0.08	0.05	2.71	0.00	0.01	0.05	0.27	0.39	15.8	1	58
OC	pm25	1.83	0.97	1.60	1.68	0.46	0.67	1.57	4.40	4.80	15.8	0	58
PM10 mass	pm10	10.40	7.89	8.28	2.15	0.00	1.00	9.00	26.00	83.00	92.9	0	8157
PM25 mass	pm25	7.45	6.77	5.83	2.26	0.00	0.00	6.00	21.00	67.00	97.9	0	8603
SO4--	pm25	0.45	0.31	0.36	2.09	0.05	0.08	0.39	1.04	1.70	15.8	0	58
SO4-- corr	pm25	0.45	0.31	0.35	2.13	0.05	0.07	0.39	1.04	1.70	15.8	0	58
TC	pm25	2.00	1.06	1.76	1.68	0.49	0.71	1.72	4.84	5.24	15.8	0	58

FR0010R Morvan
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	11.33	6.68	9.80	1.77	-3.00	4.00	10.00	24.00	69.00	87.9	0	7725
PM25 mass	pm25	6.53	5.92	5.27	2.11	-3.00	0.00	5.00	17.00	59.00	86.0	0	7558

FR0013R Peyrusse Vieille
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.01	0.01	0.01	1.99	0.00	0.00	0.01	0.03	0.03	10.9	16	40
Cl-	pm25	0.04	0.06	0.02	2.51	0.01	0.01	0.01	0.26	0.27	10.9	31	40
EC	pm25	0.17	0.14	0.12	2.16	0.03	0.03	0.13	0.54	0.57	10.9	0	40
K+	pm25	0.05	0.04	0.04	2.26	0.01	0.01	0.03	0.15	0.21	10.9	12	40
Mg++	pm25	0.01	0.01	0.00	2.42	0.00	0.00	0.00	0.02	0.03	10.9	0	40
NH4+	pm25	0.09	0.08	0.05	3.22	0.00	0.01	0.07	0.32	0.33	10.9	0	40
NO3-	pm25	0.09	0.15	0.04	4.11	0.00	0.00	0.04	0.56	0.65	10.9	0	40
Na+	pm25	0.06	0.06	0.04	2.60	0.01	0.01	0.05	0.20	0.24	10.9	0	40
OC	pm25	1.89	1.35	1.55	1.89	0.43	0.48	1.54	4.90	7.45	10.9	0	40
PM10 mass	pm10	13.40	6.14	12.18	1.56	-1.00	6.00	12.00	25.00	57.00	82.6	0	7257
PM25 mass	pm25	7.77	6.29	6.32	2.17	-3.00	0.00	7.00	20.00	47.00	65.4	0	5746
SO4--	pm25	0.30	0.25	0.21	2.29	0.04	0.06	0.22	0.98	1.11	10.9	0	40
SO4-- corr	pm25	0.29	0.25	0.21	2.36	0.03	0.06	0.22	0.98	1.11	10.9	0	40
TC	pm25	2.06	1.47	1.68	1.89	0.46	0.53	1.68	5.44	8.02	10.9	0	40

FR0014R Montandon
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	12.31	8.23	10.19	1.88	-2.00	3.00	10.00	28.00	67.00	74.4	0	6536

FR0015R La Tardière
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	14.42	8.08	12.49	1.74	1.00	5.00	13.00	29.00	78.00	94.5	0	8299
PM25 mass	pm25	10.27	7.83	8.09	2.02	1.00	2.00	8.00	25.00	78.00	89.3	0	7846

FR0018R La Coulonche
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	13.51	10.11	10.49	2.12	0.00	3.00	11.00	33.00	84.00	97.2	0	8535
PM25 mass	pm25	8.39	8.41	6.06	2.36	-2.00	1.00	6.00	25.00	78.00	94.1	0	8270

FR0023R Saint-Nazaire-le-Désert
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.08	0.07	0.05	2.78	0.00	0.00	0.06	0.26	0.35	16.1	4	59
Cl-	pm25	0.01	0.01	0.01	1.39	0.01	0.01	0.01	0.03	0.06	16.1	54	59
EC	pm25	0.18	0.09	0.15	1.81	0.02	0.05	0.17	0.33	0.44	16.1	0	59
K+	pm25	0.05	0.03	0.04	2.08	0.01	0.01	0.04	0.12	0.17	15.6	14	57
Mg++	pm25	0.01	0.01	0.00	2.73	0.00	0.00	0.00	0.02	0.04	16.1	1	59
NH4+	pm25	0.10	0.15	0.07	2.52	0.01	0.01	0.07	0.32	1.08	16.1	0	59
NO3-	pm25	0.12	0.41	0.03	4.76	0.00	0.00	0.02	0.47	3.04	16.1	0	59
Na+	pm25	0.04	0.04	0.02	3.12	0.00	0.00	0.02	0.16	0.17	16.1	2	59
OC	pm25	1.84	0.92	1.55	2.00	0.12	0.53	1.71	3.22	4.28	16.1	2	59
PM10 mass	pm10	7.63	5.98	5.77	2.18	0.00	2.00	6.00	19.00	64.00	97.6	0	8570
PM25 mass	pm25	5.35	4.59	3.90	2.27	0.00	1.00	4.00	14.00	43.00	98.4	0	8644
SO4--	pm25	0.33	0.27	0.24	2.27	0.03	0.07	0.25	0.79	1.40	16.1	0	59
SO4-- corr	pm25	0.32	0.27	0.24	2.28	0.03	0.06	0.25	0.79	1.40	16.1	0	59
TC	pm25	2.01	0.95	1.72	1.96	0.12	0.61	1.80	3.43	4.45	16.1	2	59

FR0024R Guipry
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.01	0.01	0.01	1.80	0.00	0.00	0.01	0.03	0.04	14.5	7	53
Cl-	pm25	0.18	0.28	0.08	3.76	0.01	0.01	0.10	0.59	1.84	14.5	11	53
EC	pm25	0.36	0.30	0.28	1.93	0.08	0.11	0.27	1.02	1.83	14.8	0	54
K+	pm25	0.05	0.06	0.03	2.50	0.01	0.01	0.03	0.18	0.31	14.5	25	53
Mg++	pm25	0.02	0.02	0.01	2.96	0.00	0.00	0.01	0.05	0.10	14.5	0	53
NH4+	pm25	0.19	0.23	0.10	3.69	0.00	0.01	0.10	0.61	1.26	14.5	1	53
NO3-	pm25	0.35	0.61	0.12	4.34	0.01	0.02	0.09	1.38	3.67	14.5	0	53
Na+	pm25	0.15	0.17	0.09	3.10	0.01	0.01	0.12	0.44	1.00	14.5	0	53
OC	pm25	1.99	1.78	1.49	2.08	0.48	0.57	1.21	5.86	9.32	14.8	0	54
PM10 mass	pm10	14.62	9.05	12.29	1.84	-1.00	4.00	12.00	32.00	85.00	94.0	0	8260
PM25 mass	pm25	8.89	7.75	6.73	2.25	-2.00	1.00	7.00	24.00	69.00	86.3	0	7578
SO4--	pm25	0.36	0.30	0.27	2.18	0.03	0.08	0.27	1.18	1.48	14.5	0	53
SO4-- corr	pm25	0.35	0.31	0.24	2.47	0.01	0.05	0.27	1.18	1.47	14.5	0	53
TC	pm25	2.35	2.05	1.79	2.03	0.64	0.69	1.50	6.66	11.14	14.8	0	54

FR0025R Verneuil
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.03	0.07	0.01	3.55	0.00	0.00	0.00	0.21	0.34	16.4	31	60
Cl-	pm25	0.06	0.24	0.02	2.66	0.01	0.01	0.01	0.17	1.83	16.4	47	60
EC	pm25	0.19	0.16	0.13	2.78	0.00	0.04	0.15	0.55	0.81	16.7	1	61
K+	pm25	0.05	0.05	0.03	2.44	0.01	0.01	0.04	0.19	0.24	16.4	23	60
Mg++	pm25	0.01	0.01	0.00	3.35	0.00	0.00	0.01	0.03	0.10	16.4	7	60
NH4+	pm25	0.12	0.16	0.07	3.29	0.00	0.01	0.07	0.52	0.88	16.4	1	60
NO3-	pm25	0.22	0.50	0.03	7.31	0.00	0.00	0.03	1.63	2.64	16.4	2	60
Na+	pm25	0.08	0.14	0.03	4.32	0.00	0.00	0.04	0.26	1.02	16.4	6	60
OC	pm25	2.11	1.38	1.77	1.80	0.51	0.66	1.76	5.25	7.30	16.7	0	61
PM25 mass	pm25	7.93	6.79	6.22	2.12	-3.00	1.00	6.00	22.00	65.00	96.4	0	8468
SO4--	pm25	0.28	0.18	0.22	2.06	0.03	0.06	0.25	0.64	1.04	16.4	0	60
SO4-- corr	pm25	0.27	0.19	0.21	2.19	0.02	0.05	0.25	0.64	1.04	16.4	0	60
TC	pm25	2.30	1.53	1.92	1.82	0.54	0.71	1.93	5.80	7.99	16.7	0	61

GB0002R Eskdalemuir
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.21	0.09	0.20	1.42	0.03	0.12	0.20	0.34	1.85	97.0	8480	8521
NO2	air	0.62	0.65	0.45	2.17	-0.09	0.13	0.44	1.70	7.91	97.0	6254	8521

GB0006R Lough Navar
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3	air	0.02	0.01	0.01	2.29	0.00	0.00	0.01	0.04	0.04	100.0	0	13
NH3	air	0.41	0.28	0.32	1.95	0.12	0.12	0.29	0.91	0.91	100.0	0	13
NH4+	aerosol	0.33	0.17	0.25	2.53	0.02	0.02	0.34	0.56	0.56	100.0	1	13
NO3-	aerosol	0.15	0.10	0.10	3.30	0.01	0.01	0.16	0.29	0.29	100.0	1	13
PM10 mass	pm10	5.42	4.98	4.28	2.58	-4.00	-0.70	4.40	14.90	48.90	80.0	3915	7026

GB0013R Yarner Wood
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.32	0.32	0.26	1.86	0.01	0.10	0.24	0.78	6.10	92.5	7619	8129
NO2	air	1.36	1.23	0.98	2.24	-0.04	0.28	0.91	3.85	11.24	92.5	2872	8128

GB0014R High Muffles
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.60	0.58	0.51	1.69	-0.13	0.24	0.50	1.13	10.91	91.1	6019	8006
NO2	air	1.65	2.00	0.97	2.95	-0.19	0.16	0.95	5.70	15.29	91.1	3217	8006

GB0031R Aston Hill
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.26	0.27	0.22	1.63	0.03	0.12	0.21	0.55	6.06	99.1	8418	8706
NO2	air	1.12	1.43	0.59	3.36	-0.09	0.08	0.56	3.80	17.78	99.1	4890	8706

GB0033R Bush
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.72	1.65	0.48	2.01	0.05	0.21	0.42	1.69	45.07	88.9	6122	7810
NO2	air	1.95	2.32	1.16	2.91	-0.12	0.20	1.20	6.14	29.18	88.9	2431	7809

GB0037R Ladybower Res.
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.58	0.52	0.50	1.64	0.08	0.24	0.47	1.15	14.22	98.3	6897	8639
NO2	air	2.25	2.24	1.53	2.47	-0.08	0.35	1.57	6.48	21.01	98.3	1584	8639
SO2	air	1.17	0.76	1.00	1.77	-0.63	0.38	1.03	2.32	11.55	98.0	7859	8606
SO2	air	1.17	0.81	1.00	1.80	-0.79	0.32	1.06	2.37	17.69	96.0	30699	33726

GB0038R Lullington Heath
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.41	0.63	0.29	2.02	-0.02	0.12	0.26	1.10	18.87	96.3	7519	8457
NO2	air	2.37	2.18	1.68	2.37	-0.03	0.38	1.73	6.35	24.20	96.3	1237	8455
SO2	air	0.42	0.35	0.33	2.06	-0.09	0.09	0.34	1.00	4.86	71.0	6188	6237
SO2	air	0.42	0.36	0.35	1.92	-0.13	0.12	0.37	1.07	9.01	70.8	24624	24859

GB0043R Narberth
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.49	0.43	0.40	1.77	0.04	0.18	0.37	1.02	9.27	55.5	4047	4875
NO2	air	1.17	1.61	0.72	2.70	-0.58	0.14	0.69	3.74	18.61	55.5	2454	4874
PM10 mass	pm10	11.74	7.92	9.43	2.09	-3.50	2.30	10.00	27.10	76.70	94.7	1368	8315
SO2	air	0.56	0.33	0.49	1.73	0.00	0.18	0.51	1.13	6.02	81.2	7106	7134
SO2	air	0.57	0.35	0.49	1.74	0.00	0.14	0.53	1.16	6.73	80.6	28182	28313

GB0045R Wicken Fen
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.09	3.66	0.36	3.16	-0.05	0.09	0.28	3.97	55.06	78.0	5480	6849
NO2	air	2.90	2.60	1.95	2.59	0.01	0.37	2.05	8.67	16.73	77.9	945	6844
SO2	air	0.41	0.25	0.34	1.85	0.00	0.10	0.37	0.92	2.42	38.9	3412	3415
SO2	air	0.41	0.27	0.36	1.80	0.00	0.11	0.40	0.93	3.30	38.113373	13386	

GB0048R Auchencorth Moss
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.05	0.06	0.03	2.67	0.00	0.01	0.03	0.12	1.00	59.1	231	5189
Ca++	pm25	0.02	0.03	0.01	3.06	0.00	0.00	0.02	0.06	0.49	60.9	435	5351
Cl-	pm10	1.11	1.36	0.56	3.54	0.00	0.07	0.58	4.04	9.85	58.3	6	5119
Cl-	pm25	0.59	0.71	0.31	3.36	0.00	0.04	0.32	2.09	5.63	65.5	22	5751
HNO3	air	0.02	0.02	0.02	2.01	0.00	0.01	0.02	0.06	0.17	66.0	15	5794
K+	pm10	0.05	0.04	0.04	2.36	0.00	0.01	0.04	0.11	0.84	57.8	154	5076
K+	pm25	0.03	0.02	0.02	2.86	0.00	0.00	0.02	0.06	0.27	63.3	629	5564
Mg++	pm10	0.06	0.07	0.03	3.47	0.00	0.00	0.04	0.21	0.54	59.3	218	5208
Mg++	pm25	0.03	0.04	0.02	4.04	0.00	0.00	0.02	0.12	0.28	63.3	483	5564
NH3	air	1.01	1.19	0.71	2.25	0.05	0.19	0.71	2.69	18.51	65.8	1	5780
NH4+	pm10	0.48	0.60	0.26	3.38	0.00	0.04	0.25	1.74	6.14	59.1	59	5190
NH4+	pm25	0.43	0.53	0.24	3.10	0.00	0.04	0.23	1.55	5.43	63.2	32	5554
NO3-	pm10	0.31	0.45	0.14	3.61	0.00	0.02	0.14	1.19	5.12	62.8	4	5513
NO3-	pm25	0.25	0.39	0.11	3.62	0.00	0.02	0.11	1.03	4.62	65.5	10	5751
Na+	pm10	0.58	0.67	0.29	3.83	0.00	0.02	0.34	2.00	8.62	54.9	20	4819
Na+	pm25	0.31	0.36	0.15	3.77	0.00	0.01	0.17	1.05	2.67	62.4	43	5479
PM10 mass	pm10	5.81	3.73	4.91	1.81	-0.08	1.92	4.67	13.10	23.46	71.6	16	262
PM10 mass	pm10	7.25	5.48	5.81	2.12	-3.90	1.10	6.20	16.70	55.60	77.6	2617	6820
PM25 mass	pm25	2.55	4.00	2.28	2.96	-4.00	-1.70	1.70	10.10	44.40	87.0	6378	7639
PM25 mass	pm25	2.99	2.25	2.37	2.12	-0.12	0.55	2.42	7.41	14.95	73.5	99	269
SO2	air	0.08	0.20	0.05	2.14	0.01	0.02	0.05	0.22	5.98	66.0	0	5794
SO4--	pm10	0.29	0.23	0.23	2.09	0.02	0.07	0.22	0.76	2.07	62.8	0	5513
SO4--	pm25	0.26	0.21	0.19	2.10	0.00	0.06	0.19	0.68	2.13	65.5	1	5750
SO4-- corr	pm10	0.24	0.22	0.17	2.31	0.02	0.05	0.17	0.69	2.05	62.8	0	5513
SO4-- corr	pm25	0.23	0.21	0.16	2.27	-0.02	0.05	0.15	0.65	2.13	65.5	1	5750

GB0050R St. Osyth
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.49	2.96	0.72	3.16	-0.06	0.13	0.69	5.01	60.40	91.6	2606	8047
NO2	air	3.99	3.25	2.96	2.23	-0.02	0.74	3.00	10.95	27.54	91.5	95	8035

GB0051R Market Harborough
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.61	2.01	0.20	3.55	-0.06	0.02	0.15	1.90	31.04	94.7	6270	8317
NO2	air	3.25	3.16	2.36	2.16	0.24	0.72	2.21	10.21	21.55	94.7	50	8317

GB0053R Charlton Mackrell
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.62	1.77	0.32	2.39	0.02	0.11	0.27	1.59	35.06	99.2	7427	8717
NO2	air	2.24	2.09	1.60	2.27	0.06	0.43	1.57	6.39	17.42	99.2	1367	8710

GB1055R Chilbolton Observatory
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.23	0.26	0.11	4.52	0.00	0.00	0.17	0.65	5.35	50.8	581	4464
Ca++	pm25	0.07	0.08	0.03	3.36	0.00	0.01	0.04	0.21	1.19	53.8	1881	4728
Cl-	pm10	1.04	1.37	0.30	8.19	0.01	0.01	0.56	3.66	15.13	53.7	884	4717
Cl-	pm25	0.47	0.78	0.11	8.39	0.00	0.01	0.18	1.73	13.17	57.4	1533	5044
HNO3	air	0.04	0.04	0.02	4.66	0.00	0.00	0.02	0.11	0.41	57.0	750	5006
K+	pm10	0.11	0.26	0.05	4.52	0.01	0.01	0.10	0.27	13.89	50.6	1435	4448
K+	pm25	0.08	0.35	0.02	5.21	0.00	0.01	0.01	0.24	11.83	53.7	2570	4716
Mg++	pm10	0.14	0.15	0.07	4.74	0.00	0.00	0.10	0.41	1.15	50.7	624	4457
Mg++	pm25	0.08	0.10	0.03	5.10	0.00	0.00	0.05	0.26	0.82	53.8	1305	4729
NH3	air	4.84	6.31	3.11	2.42	0.02	0.85	2.81	16.22	103.66	54.3	1	4772
NH4+	pm10	1.05	1.19	0.60	2.99	0.02	0.08	0.62	3.40	9.94	50.6	193	4447
NH4+	pm25	0.99	1.17	0.52	3.90	0.00	0.06	0.58	3.28	10.07	53.8	157	4728
NO3-	pm10	0.79	0.91	0.45	3.09	0.00	0.07	0.46	2.54	7.69	53.8	5	4727
NO3-	pm25	0.67	0.85	0.37	3.16	0.00	0.06	0.35	2.27	7.62	57.4	7	5044
Na+	pm10	0.66	0.74	0.30	4.96	0.01	0.01	0.42	2.06	6.08	50.6	397	4442
Na+	pm25	0.30	0.38	0.12	5.16	0.01	0.01	0.17	0.97	3.42	53.0	709	4655
PM10 mass	pm10	12.83	7.25	11.34	1.63	2.46	5.27	11.03	27.77	49.92	51.1	0	187
PM10 mass	pm10	14.93	10.76	11.81	2.12	-2.40	3.00	12.60	34.88	181.80	81.9	858	7192
PM25 mass	pm25	6.66	5.09	5.52	1.78	1.05	2.52	5.04	15.86	41.71	57.7	5	211
PM25 mass	pm25	9.45	8.84	6.76	2.51	-3.80	0.80	6.70	26.50	100.50	90.5	2840	7949
SO2	air	0.08	0.08	0.06	1.83	0.00	0.03	0.06	0.20	1.79	57.7	5	5069
SO4--	pm10	0.52	0.35	0.42	1.88	0.01	0.15	0.42	1.22	3.24	53.8	1	4723
SO4--	pm25	0.48	0.35	0.38	1.95	0.02	0.13	0.38	1.17	3.33	57.4	0	5041
SO4-- corr	pm10	0.46	0.36	0.36	2.10	-0.08	0.10	0.36	1.16	3.20	53.8	1	4723
SO4-- corr	pm25	0.45	0.35	0.35	2.08	0.02	0.10	0.36	1.15	3.31	57.4	0	5041

GR001R Aliartos
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	3.34	6.89	1.27	3.28	0.50	0.50	0.90	17.80	54.70	74.6	0	6553
NO2	air	4.02	3.39	2.73	2.55	0.30	0.60	3.10	10.70	19.90	74.6	0	6551
PM10 mass	pm10	33.69	24.44	28.06	1.80	3.00	11.00	27.00	78.00	290.00	65.0	0	5707
PM25 mass	pm25	15.62	14.94	11.66	2.19	0.00	3.00	12.00	44.00	170.00	77.8	0	6838
SO2	air	2.88	2.61	2.29	1.90	1.00	1.00	2.00	6.50	49.00	99.4	0	8732

HU002R K-pusztá
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3	air	0.21	0.11	0.18	1.73	0.01	0.07	0.20	0.41	0.64	97.8	1	359
NH3	air	1.55	0.75	1.34	1.79	0.09	0.46	1.50	2.85	4.92	97.8	0	359
NH4+	aerosol	0.77	0.88	0.42	3.48	0.00	0.05	0.46	2.62	6.00	97.3	14	357
NO2	air	1.14	0.55	1.03	1.56	0.28	0.49	1.00	2.21	3.98	98.6	0	362
NO3-	aerosol	0.51	0.58	0.31	2.72	0.02	0.07	0.28	1.85	2.97	97.3	1	357
PM10 mass	pm10	17.93	11.92	14.58	1.95	1.03	4.32	15.26	42.39	95.32	90.1	0	7912
PM25 mass	pm25	13.94	9.95	11.40	1.89	1.63	4.12	11.23	34.72	60.22	99.7	0	366
SO2	air	0.77	1.00	0.43	2.84	0.02	0.09	0.38	3.08	6.52	97.8	13	359
SO4--	aerosol	1.04	0.73	0.85	1.90	0.08	0.30	0.85	2.33	5.64	97.3	0	357

HU003R Farkasfa
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HNO3	air	0.20	0.12	0.17	1.91	0.00	0.06	0.19	0.40	0.86	99.9	11	366
HNO3+NO3-	air+aerosol	0.52	0.46	0.39	2.13	0.05	0.12	0.35	1.62	2.84	99.9	11	366
NH3	air	0.68	0.40	0.56	1.98	0.01	0.16	0.62	1.48	2.51	99.9	4	366
NH3+NH4+	air+aerosol	1.18	0.68	1.00	1.83	0.06	0.37	1.02	2.56	3.69	99.9	19	366
NH4+	aerosol	0.50	0.62	0.21	4.93	0.00	0.01	0.26	1.90	3.60	99.9	40	366
NO2	air	0.92	0.71	0.74	1.88	0.08	0.32	0.72	2.29	4.82	99.1	0	363
NO3-	aerosol	0.32	0.43	0.17	3.06	0.02	0.03	0.14	1.35	2.67	99.9	0	366
PM10 mass	pm10	16.65	12.34	12.65	2.19	1.00	3.09	13.05	42.95	72.69	52.2	0	4583
PM25 mass	pm25	14.95	11.93	10.99	2.27	1.00	2.55	11.31	41.69	69.49	52.0	0	4565
SO2	air	0.27	0.43	0.16	2.73	0.01	0.03	0.16	0.79	5.22	99.9	56	366
SO4--	aerosol	0.75	0.58	0.58	2.10	0.05	0.16	0.61	1.71	4.13	99.9	0	366

IE0001R Valentia Observatory
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.14	0.18	0.10	2.13	0.03	0.03	0.10	0.32	2.09	80.4	40	295
Cl-	aerosol	3.60	4.82	2.34	2.86	0.03	0.24	2.72	8.47	72.87	79.9	1	293
HNO3+NO3-	air+aerosol	0.31	0.38	0.20	2.34	0.05	0.07	0.18	1.15	2.66	79.0	0	289
K+	aerosol	0.09	0.09	0.07	2.02	0.03	0.03	0.08	0.18	1.37	80.3	73	295
Mg++	aerosol	0.26	0.30	0.18	2.41	0.03	0.03	0.20	0.59	4.43	80.2	24	294
NH3+NH4+	air+aerosol	0.73	0.63	0.59	1.84	0.04	0.29	0.51	1.93	4.99	78.7	1	288
NO2	air	2.32	3.30	1.21	3.14	0.05	0.20	1.10	8.74	25.80	95.9	6	352
Na+	aerosol	2.07	2.61	1.42	2.63	0.03	0.24	1.64	4.69	39.59	79.9	4	293
SO2	air	0.24	0.23	0.17	2.22	0.01	0.05	0.18	0.57	2.26	81.1	2	298
SO4--	aerosol	0.30	0.28	0.21	2.72	0.01	0.02	0.26	0.63	3.62	80.2	14	294
SO4-- corr	aerosol	0.13	0.19	0.09	3.31	-0.14	-0.06	0.06	0.52	1.31	80.2	14	294

IE0005R Oak Park
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.07	0.05	0.06	1.98	0.01	0.02	0.06	0.19	0.37	96.7	15	354
Cl-	aerosol	1.44	1.07	1.13	2.04	0.15	0.31	1.17	3.61	7.03	96.7	0	354
K+	aerosol	0.06	0.03	0.05	1.65	0.01	0.02	0.05	0.12	0.27	96.7	0	354
Mg++	aerosol	0.08	0.06	0.06	2.10	0.01	0.02	0.06	0.21	0.41	96.7	27	354
NH4+	aerosol	0.57	0.54	0.43	2.03	0.12	0.18	0.35	1.86	3.10	96.7	0	354
NO3-	aerosol	0.34	0.43	0.17	3.33	0.01	0.03	0.13	1.35	2.18	96.7	0	354
Na+	aerosol	0.73	0.59	0.53	2.39	0.05	0.10	0.57	1.92	3.61	96.7	0	354
SO4--	aerosol	0.30	0.20	0.25	1.80	0.04	0.11	0.24	0.70	1.31	96.7	0	354
SO4-- corr	aerosol	0.23	0.21	0.16	2.40	0.01	0.04	0.17	0.66	1.29	96.7	0	354

IE0006R Malin Head
January 2016 - December 2016

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	0.08	1.91	0.01	0.02	0.08	0.19	0.54	98.9	6	362
Cl-	aerosol	3.37	2.34	2.65	2.06	0.20	0.73	2.63	8.05	14.44	98.9	0	362
K+	aerosol	0.08	0.05	0.07	1.75	0.02	0.03	0.07	0.17	0.30	98.9	5	362
Mg++	aerosol	0.20	0.15	0.14	2.34	0.02	0.03	0.15	0.51	0.93	98.9	6	362
NH4+	aerosol	0.41	0.46	0.29	2.12	0.02	0.12	0.25	1.51	3.42	98.9	1	362
NO3-	aerosol	0.21	0.34	0.08	3.96	0.00	0.01	0.07	0.94	2.39	98.9	3	362
Na+	aerosol	1.81	1.31	1.33	2.47	0.03	0.28	1.43	4.45	7.66	98.9	4	362
SO4--	aerosol	0.34	0.18	0.31	1.61	0.06	0.14	0.30	0.73	1.24	98.9	0	362
SO4-- corr	aerosol	0.19	0.20	0.12	2.98	-0.25	0.01	0.14	0.59	1.19	98.9	0	362

IE0008R Carnsore Point
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.15	0.09	0.12	1.92	0.02	0.04	0.12	0.33	0.50	100.0	1	366
Cl-	aerosol	5.35	4.43	3.83	2.34	0.40	0.88	3.95	14.13	22.12	100.0	0	366
K+	aerosol	0.13	0.09	0.11	1.85	0.01	0.04	0.10	0.30	0.49	100.0	0	366
Mg++	aerosol	0.34	0.29	0.24	2.48	0.01	0.05	0.26	0.92	1.43	100.0	0	366
NH4+	aerosol	0.53	0.56	0.38	2.12	0.09	0.14	0.33	1.86	3.48	100.0	0	366
NO3-	aerosol	0.36	0.48	0.17	3.49	0.01	0.02	0.14	1.37	2.62	100.0	4	366
Na+	aerosol	2.92	2.33	2.11	2.34	0.18	0.48	2.23	7.72	11.35	100.0	0	366
SO4--	aerosol	0.49	0.24	0.43	1.74	0.01	0.17	0.45	0.94	1.33	100.0	1	366
SO4-- corr	aerosol	0.25	0.22	0.17	2.51	-0.06	0.03	0.18	0.68	1.16	100.0	1	366

IS0002R Itrafoss
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.12	0.16	0.07	2.59	0.01	0.02	0.07	0.37	1.64	94.0	120	344
Cl-	aerosol	1.50	1.66	0.84	3.25	0.04	0.10	0.94	5.13	9.93	94.0	31	344
K+	aerosol	0.14	0.15	0.08	3.29	0.00	0.01	0.10	0.45	0.81	84.4	11	309
Mg++	aerosol	0.07	0.10	0.04	2.82	0.00	0.01	0.04	0.23	0.88	93.2	86	341
Na+	aerosol	1.00	1.07	0.57	3.39	0.00	0.04	0.66	3.38	6.38	93.7	16	343
SO2	air	0.07	0.10	0.04	3.33	0.00	0.00	0.03	0.32	0.84	84.9	78	311
SO4--	aerosol	0.20	0.21	0.13	2.70	0.00	0.02	0.13	0.60	1.78	84.7	1	310
SO4-- corr	aerosol	0.12	0.16	0.06	3.38	-0.08	0.01	0.05	0.49	1.01	84.7	1	310

IS0091R Storhofdi
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	7.74	3.61	6.11	2.13	1.00	1.00	7.70	11.80	11.80	46.4	0	11
NO3-	aerosol	0.02	0.03	0.01	3.62	0.00	0.00	0.01	0.10	0.10	46.4	0	11
SO4--	aerosol	0.38	0.19	0.30	2.14	0.05	0.05	0.35	0.65	0.65	46.4	0	11
SO4-- corr	aerosol	0.25	0.19	0.18	2.69	0.00	0.00	0.22	0.51	0.51	46.4	0	11

IT0004R Ispra
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	294.23	208.91	246.55	1.73	87.00	132.00	202.00	772.00	1519.00	93.4	0	8205
Ca++	pm25	0.01	0.04	0.02	2.13	-0.07	-0.05	0.01	0.07	0.21	95.6	321	351
Cl-	pm25	0.07	0.14	0.05	3.53	-0.03	-0.02	0.02	0.42	0.79	96.7	166	355
EC	pm25	1.14	1.13	0.75	2.55	0.03	0.19	0.65	3.68	5.43	96.7	1	355
K+	pm25	0.23	0.32	0.10	3.99	-0.01	0.01	0.08	0.96	2.46	96.7	54	355
Mg++	pm25	0.00	0.01	0.01	1.71	0.00	0.00	0.00	0.02	0.16	96.7	161	355
NH4+	pm25	1.06	1.17	0.64	2.94	0.02	0.09	0.69	3.33	7.29	96.7	10	355
NO2	air	6.19	4.94	4.72	2.09	0.40	1.54	4.44	16.82	41.75	93.3	0	8193
NO3-	pm25	0.68	1.10	0.17	6.54	0.00	0.01	0.17	2.95	7.34	96.7	49	355
Na+	pm25	0.05	0.04	0.04	2.22	-0.02	0.00	0.03	0.13	0.32	96.7	124	355
OC	pm25	4.88	4.69	3.28	2.55	-0.05	0.66	3.37	16.59	23.47	96.7	1	355
OC, Artifact=negative	pm25	0.26	0.25	0.17	2.57	0.00	0.04	0.18	0.88	1.25	96.7	0	355
OC, Artifact=positive	pm25	0.23	0.22	0.15	2.56	0.00	0.03	0.16	0.78	1.10	96.7	0	355
OC, Fraction=OC_Pyr	pm25	1.14	1.30	0.70	2.76	-0.03	0.13	0.71	4.42	7.60	96.7	21	355
PM25 mass	pm25	14.57	12.83	10.33	2.41	-0.10	2.20	10.80	43.59	68.50	97.0	22	356
SO2	air	0.41	0.36	0.30	2.23	-0.07	0.07	0.30	1.10	4.45	93.4	0	8203
SO4--	pm25	0.50	0.36	0.38	2.35	0.02	0.07	0.42	1.19	2.05	96.7	0	355
SO4-- corr	pm25	0.50	0.36	0.37	2.36	0.02	0.07	0.41	1.18	2.04	96.7	0	355
TC	pm25	6.03	5.75	4.04	2.54	0.17	0.92	4.01	20.22	28.91	96.7	0	355

IT0009R Mt. Cimone
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
SO2	air	0.10	0.19	0.07	2.89	-0.17	-0.01	0.04	0.37	3.55	95.2	0	8363

LT0015R Preila
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.24	0.19	0.18	2.39	0.01	0.03	0.20	0.65	1.34	95.9	3	351
Cl-	aerosol	2.47	2.78	1.17	3.91	0.02	0.14	1.23	7.93	13.83	95.6	5	350
HNO3+NO3-	air+aerosol	0.61	0.56	0.44	2.25	0.03	0.11	0.45	1.74	4.65	96.0	0	352
K+	aerosol	0.18	0.31	0.13	1.94	0.02	0.05	0.13	0.35	4.89	95.9	0	351
NH3+NH4+	air+aerosol	0.82	0.85	0.52	2.87	0.02	0.07	0.60	2.43	7.50	95.9	0	351
NH4+	aerosol	0.69	0.82	0.38	3.37	0.01	0.03	0.47	2.31	7.49	95.6	6	350
NO2	air	0.94	0.73	0.76	1.88	0.08	0.28	0.72	2.35	6.19	96.4	0	354
NO3-	aerosol	0.57	0.56	0.40	2.40	0.02	0.09	0.40	1.71	4.65	95.9	0	351
Na+	aerosol	1.53	1.50	0.87	3.32	0.02	0.11	0.97	4.67	7.59	96.2	0	352
SO2	air	0.18	0.22	0.13	2.12	0.02	0.04	0.12	0.53	2.19	96.5	0	354
SO4--	aerosol	0.51	0.32	0.44	1.68	0.12	0.20	0.44	1.14	2.70	96.0	0	352
SO4-- corr	aerosol	0.39	0.34	0.28	2.41	-0.06	0.05	0.32	1.08	2.63	95.9	0	351

LV0010R Rucava
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.09	0.18	0.02	5.51	0.00	0.00	0.02	0.70	0.89	85.8	22	45
Cl-	pm25	0.03	0.04	0.01	3.57	0.00	0.00	0.01	0.13	0.15	87.7	28	46
HNO3	air	0.33	0.31	0.23	2.42	0.01	0.05	0.24	0.94	2.06	99.7	3	366
HNO3+NO3-	air+aerosol	0.38	0.32	0.28	2.22	0.03	0.08	0.29	1.07	2.28	99.5	104	365
K+	pm25	0.07	0.07	0.04	3.06	0.00	0.01	0.06	0.24	0.29	87.7	11	46
Mg++	pm25	0.01	0.01	0.01	4.82	0.00	0.00	0.01	0.05	0.06	82.0	6	43
NH3	air	0.23	0.28	0.11	3.72	0.02	0.02	0.12	0.82	2.00	97.8	161	359
NH3+NH4+	air+aerosol	0.75	0.57	0.55	2.35	0.04	0.10	0.62	1.93	3.21	97.5	167	358
NH4+	aerosol	0.58	0.50	0.42	2.34	0.02	0.11	0.44	1.60	3.73	98.4	10	361
NH4+	pm25	0.28	0.21	0.22	2.09	0.03	0.05	0.23	0.85	0.96	87.7	0	46
NO2	air	0.75	0.52	0.58	2.49	0.01	0.21	0.64	1.65	4.16	99.7	15	366
NO3-	aerosol	0.06	0.06	0.04	2.96	0.00	0.00	0.04	0.17	0.43	99.5	102	365
NO3-	pm25	0.07	0.11	0.02	4.58	0.00	0.00	0.02	0.29	0.63	87.7	7	46
Na+	pm25	0.07	0.08	0.04	2.92	0.00	0.01	0.06	0.30	0.39	87.7	5	46
PM10 mass	pm10	13.26	9.71	10.39	2.05	0.80	3.40	9.85	33.69	60.10	84.7	0	310
PM25 mass	pm25	9.08	6.69	7.05	2.14	0.10	2.30	7.10	22.95	39.80	79.0	0	289
SO2	air	0.20	0.20	0.14	2.40	0.01	0.03	0.13	0.64	1.28	99.5	17	365
SO4--	aerosol	0.31	0.24	0.23	2.16	0.01	0.07	0.25	0.79	1.47	98.9	2	363
SO4--	pm25	0.29	0.20	0.23	2.16	0.03	0.05	0.25	0.77	0.90	87.7	0	46
SO4-- corr	pm25	0.28	0.20	0.22	2.18	0.03	0.04	0.25	0.77	0.89	87.7	0	46

MK0007R Lazaropole
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	11.19	9.97	7.09	3.40	0.01	1.13	8.72	28.78	145.20	65.1	0	5721
SO2	air	0.73	0.42	0.66	1.52	0.03	0.37	0.64	1.44	3.43	45.5	0	3993

MT0001R Giordan Lighthouse
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.11	0.11	0.09	1.69	0.02	0.06	0.08	0.27	2.22	95.1	0	8353
NO2	air	4.71	152.78	0.77	2.03	0.00	0.27	0.73	2.506247.98	95.1	0	8351	
SO2	air	0.37	0.37	0.23	2.99	0.01	0.03	0.33	0.93	6.20	94.2	0	8271

NL0007R Eibergen
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	1.24	3.47	0.42	4.09	-1.03	-0.06	0.31	6.16	48.57	93.1	0	8175
NO2	air	4.27	3.03	3.39	2.00	0.20	1.07	3.39	10.46	19.06	92.8	0	8155
PM10 mass	pm10	17.13	12.08	14.00	2.13	-16.05	1.87	14.67	37.71	117.07	98.8	0	8678
SO2	air	0.47	0.91	0.57	2.83	-1.49	-0.78	0.40	1.88	8.69	98.0	0	8609

NL0008R Bilthoven
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm10	0.18	0.10	0.16	1.64	0.04	0.07	0.15	0.35	0.91	48.1	0	176
Mg++	pm10	0.11	0.09	0.08	2.15	0.01	0.02	0.07	0.29	0.53	48.1	3	176
Na+	pm10	0.74	0.77	0.47	2.70	0.05	0.09	0.42	2.35	4.80	48.1	0	176

NL0009R Kollumerwaard
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO	air	0.58	2.18	0.22	3.99	-0.46	-0.11	0.14	2.01	35.05	97.4	0	8553
NO2	air	2.79	2.73	1.88	2.48	-0.84	0.44	1.89	8.64	19.59	97.4	0	8552
PM10 mass	pm10	14.96	12.73	12.03	2.35	-18.61	-0.69	13.39	37.71	140.11	98.3	0	8634
PM25 mass	pm25	8.82	9.99	5.70	3.25	-4.95	-0.71	5.63	26.55	83.41	91.8	0	8060
SO2	air	0.18	0.52	0.29	2.74	-1.50	-0.56	0.17	0.92	6.07	96.8	0	8500

NL0010R Vredepeel
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	pm10	0.55	0.69	0.31	2.89	0.06	0.07	0.28	2.01	4.63	49.5	31	181
NH4+	pm10	1.13	1.01	0.72	2.85	0.01	0.14	0.81	3.17	4.63	49.5	1	181
NO	air	2.01	5.08	0.61	4.26	-0.96	0.04	0.49	9.52	67.46	97.3	0	8549
NO2	air	5.07	3.64	3.94	2.09	-0.87	1.14	4.01	12.64	21.07	97.3	0	8543
NO3-	pm10	1.02	0.77	0.76	2.34	0.01	0.19	0.81	2.55	3.95	49.5	1	181
PM10 mass	pm10	18.64	14.68	15.17	2.34	-19.89	-0.69	15.95	45.39	205.39	96.3	0	8459
PM25 mass	pm25	8.81	8.33	6.40	2.91	-4.96	-0.86	6.75	25.43	50.00	89.9	0	7893
SO4--	pm10	0.60	0.33	0.52	1.76	0.02	0.23	0.52	1.25	1.95	49.5	1	181
SO4-- corr	pm10	0.59	0.33	0.51	1.81	0.02	0.20	0.52	1.25	1.95	49.5	1	181

NL0091R De Zilk
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	pm10	1.44	1.85	0.64	3.83	0.07	0.08	0.54	5.20	9.98	48.4	14	177
NH4+	pm10	0.75	0.95	0.32	4.18	0.00	0.03	0.34	2.71	6.31	48.4	6	177
NO	air	1.77	5.82	0.40	5.31	-0.35	-0.07	0.24	8.58	88.98	98.1	0	8615
NO2	air	4.54	4.11	2.92	2.79	-0.42	0.46	3.14	13.46	23.30	98.1	0	8614
NO3-	pm10	0.76	0.68	0.55	2.21	0.08	0.16	0.51	2.10	4.37	48.4	0	177
PM10 mass	pm10	15.63	12.85	13.32	2.31	-19.89	-1.97	14.67	37.71	165.71	97.2	0	8541
PM25 mass	pm25	8.24	9.16	5.88	3.08	-4.99	-1.60	5.56	25.76	108.78	89.9	0	7897
SO2	air	0.50	0.73	0.42	2.78	-0.99	-0.35	0.35	1.87	11.76	87.5	0	7688
SO4--	pm10	0.57	0.33	0.50	1.69	0.13	0.22	0.50	1.20	2.33	48.4	0	177

NL0644R Cabauw Wielsekade
 January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	217.62	92.38	202.93	1.44	-19.80	124.36	192.60	394.991082.69	95.6	0	8398	
Ca++	pm25	0.06	0.03	0.06	1.50	0.02	0.03	0.06	0.12	0.18	24.6	22	90
EC	pm10	0.39	0.29	0.32	1.96	0.00	0.09	0.31	0.92	1.77	24.6	1	90
Mg++	pm25	0.03	0.02	0.02	2.04	0.01	0.01	0.02	0.07	0.13	24.6	37	90
NO	air	2.38	6.20	0.65	4.75	-1.36	0.01	0.50	11.88	89.68	96.3	0	8462
NO2	air	5.38	3.85	4.13	2.14	-1.10	1.11	4.20	13.42	23.39	96.3	0	8463
Na+	pm25	0.24	0.23	0.17	2.14	0.04	0.06	0.16	0.67	1.46	24.6	2	90
OC	pm10	2.36	1.12	2.15	1.54	0.88	1.01	2.08	4.63	6.73	24.6	0	90
OC, Fraction=OC1	pm10	0.62	0.19	0.59	1.40	0.25	0.29	0.62	0.94	1.13	24.6	0	90
OC, Fraction=OC2	pm10	0.46	0.22	0.41	1.59	0.16	0.18	0.42	0.91	1.40	24.6	0	90
OC, Fraction=OC3	pm10	0.33	0.19	0.29	1.64	0.12	0.14	0.27	0.69	1.03	24.6	0	90
OC, Fraction=OC4	pm10	0.30	0.15	0.27	1.57	0.11	0.13	0.26	0.65	0.80	24.6	0	90
OC, Fraction=OCFyr	pm10	0.66	0.52	0.48	2.34	0.07	0.10	0.56	1.67	2.48	24.6	0	90
PM10 mass	pm10	15.34	11.54	12.85	2.27	-17.33	-0.69	13.39	36.43	85.07	98.3	0	8639
PM25 mass	pm25	8.95	9.54	6.52	3.12	-5.00	-1.84	6.28	27.44	85.99	89.1	0	7826
SO2	air	0.32	0.68	0.36	3.07	-1.38	-0.51	0.21	1.42	9.67	96.1	0	8440
TC	pm10	2.76	1.37	2.49	1.57	0.95	1.12	2.44	5.58	8.50	24.6	0	90

NO002R Birkenes II
January 2016 - December 2016

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	0.02	2.71	0.01	0.01	0.03	0.13	0.55	99.5	52	365
Cl-	aerosol	0.53	0.89	0.13	6.34	0.01	0.01	0.12	2.48	6.26	99.5	68	365
EC	pm10	0.06	0.04	0.05	2.09	0.01	0.01	0.05	0.14	0.18	100.0	0	53
EC	pm25	0.06	0.04	0.05	1.87	0.01	0.02	0.05	0.14	0.17	100.0	0	53
HNO3	air	0.04	0.06	0.02	2.81	0.01	0.01	0.01	0.17	0.38	85.0	187	312
HNO3+NO3-	air+aerosol	0.25	0.42	0.12	3.26	0.01	0.02	0.11	1.00	3.56	85.0	0	312
K+	aerosol	0.06	0.07	0.04	2.76	0.01	0.01	0.04	0.20	0.44	99.5	33	365
Mg++	aerosol	0.05	0.07	0.03	3.47	0.01	0.01	0.03	0.19	0.40	99.5	83	365
NH3	air	0.16	0.17	0.10	2.68	0.02	0.02	0.11	0.52	1.35	85.0	53	312
NH3+NH4+	air+aerosol	0.40	0.50	0.23	2.99	0.02	0.03	0.22	1.26	3.55	85.0	0	312
NH4+	aerosol	0.23	0.42	0.07	5.70	0.01	0.01	0.08	0.99	3.41	93.2	70	342
NO2	air	0.30	0.28	0.22	2.21	0.01	0.07	0.22	0.84	2.89	98.4	5	361
NO3-	aerosol	0.21	0.40	0.08	4.20	0.01	0.01	0.08	0.95	3.54	93.2	36	342
Na+	aerosol	0.42	0.56	0.17	4.63	0.01	0.01	0.18	1.55	3.63	99.5	13	365
OC	pm10	0.73	0.48	0.62	1.76	0.21	0.27	0.57	1.79	2.70	100.0	0	53
OC	pm10_pm25	0.21	0.17	0.16	2.37	0.00	0.01	0.15	0.51	0.84	94.7	0	50
OC	pm25	0.54	0.36	0.46	1.72	0.18	0.20	0.43	1.23	2.15	100.0	0	53
OC, Fraction=OC1	pm10	0.04	0.03	0.03	2.15	0.01	0.01	0.03	0.09	0.14	100.0	0	53
OC, Fraction=OC1	pm10_pm25	0.01	0.01	0.01	1.92	0.00	0.00	0.00	0.02	0.02	61.2	0	32
OC, Fraction=OC1	pm25	0.03	0.03	0.03	2.08	0.00	0.01	0.02	0.09	0.16	100.0	0	53
OC, Fraction=OC2	pm10	0.17	0.14	0.13	1.89	0.04	0.06	0.12	0.45	0.87	100.0	0	53
OC, Fraction=OC2	pm10_pm25	0.03	0.04	0.02	2.75	0.00	0.00	0.01	0.11	0.19	87.1	0	46
OC, Fraction=OC2	pm25	0.15	0.12	0.12	1.88	0.03	0.05	0.10	0.38	0.68	100.0	0	53
OC, Fraction=OC3	pm10	0.19	0.13	0.16	1.75	0.04	0.07	0.15	0.47	0.73	100.0	0	53
OC, Fraction=OC3	pm10_pm25	0.08	0.08	0.06	2.63	0.01	0.01	0.05	0.26	0.36	90.9	0	48
OC, Fraction=OC3	pm25	0.11	0.06	0.10	1.57	0.03	0.05	0.10	0.23	0.43	100.0	0	53
OC, Fraction=OC4	pm10	0.10	0.06	0.08	1.68	0.03	0.04	0.08	0.23	0.33	100.0	0	53
OC, Fraction=OC4	pm10_pm25	0.04	0.03	0.03	2.50	0.00	0.01	0.03	0.09	0.15	87.1	0	46
OC, Fraction=OC4	pm25	0.07	0.03	0.06	1.51	0.02	0.03	0.06	0.12	0.23	100.0	0	53
OC, Fraction=OC4Pyr	pm10	0.25	0.16	0.20	1.96	0.03	0.07	0.17	0.60	0.66	100.0	0	53
OC, Fraction=OC4Pyr	pm10_pm25	0.07	0.06	0.05	2.51	0.00	0.01	0.06	0.21	0.23	90.9	0	48
OC, Fraction=OC4Pyr	pm25	0.18	0.15	0.14	2.15	0.02	0.05	0.12	0.51	0.66	100.0	0	53
PM10 mass	pm10	4.34	2.19	3.87	1.65	1.38	1.63	3.74	9.05	9.42	100.0	0	53
PM10-PM25	pm10_pm25	1.88	1.15	1.56	1.95	0.18	0.47	1.71	4.81	5.25	100.0	0	53
PM25 mass	pm25	2.46	1.55	2.10	1.78	0.58	0.79	2.03	5.72	8.40	100.0	0	53
SO2	air	0.05	0.10	0.02	3.12	0.01	0.01	0.01	0.22	1.04	91.3	183	335
SO4--	aerosol	0.20	0.18	0.12	3.71	0.01	0.01	0.16	0.58	1.03	99.5	30	365
SO4-- corr	aerosol	0.17	0.18	0.10	3.51	-0.16	0.00	0.13	0.51	1.03	99.5	30	365
TC	pm10	0.80	0.51	0.68	1.73	0.22	0.31	0.64	1.94	2.81	100.0	0	53
TC	pm10_pm25	0.21	0.17	0.15	2.44	0.02	0.03	0.16	0.53	0.87	93.7	0	49
TC	pm25	0.60	0.38	0.52	1.71	0.20	0.22	0.47	1.35	2.25	100.0	0	53

NO0015R Tustervatn
January 2016 - December 2016

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	2.32	0.01	0.01	0.01	0.06	0.28	97.0	112	356
Cl-	aerosol	0.34	0.63	0.08	6.12	0.01	0.01	0.08	1.51	5.26	97.0	109	356
HNO3	air	0.02	0.03	0.01	1.91	0.01	0.01	0.01	0.07	0.32	90.7	284	333
HNO3+NO3-	air+aerosol	0.07	0.12	0.05	2.33	0.01	0.02	0.04	0.19	1.22	90.7	0	333
K+	aerosol	0.03	0.05	0.02	2.47	0.01	0.01	0.02	0.08	0.59	97.0	57	356
Mg++	aerosol	0.03	0.04	0.02	2.97	0.01	0.01	0.02	0.11	0.36	97.0	115	356
NH3	air	0.36	0.30	0.21	3.36	0.02	0.02	0.29	1.02	1.47	90.7	56	333
NH3+NH4+	air+aerosol	0.43	0.34	0.28	2.90	0.03	0.03	0.36	1.12	1.73	90.7	0	333
NH4+	aerosol	0.07	0.13	0.02	4.48	0.01	0.01	0.02	0.25	1.31	94.8	147	348
NO2	air	0.11	0.07	0.09	1.90	0.01	0.02	0.09	0.23	0.69	98.1	18	360
NO3-	aerosol	0.05	0.11	0.02	3.43	0.01	0.01	0.03	0.14	1.15	94.8	100	348
Na+	aerosol	0.25	0.38	0.09	5.02	0.01	0.01	0.12	0.91	3.01	97.0	45	356
SO2	air	0.04	0.14	0.01	2.39	0.01	0.01	0.01	0.12	2.09	92.9	274	341
SO4--	aerosol	0.13	0.12	0.08	3.20	0.01	0.01	0.10	0.37	0.81	97.0	25	356
SO4-- corr	aerosol	0.11	0.12	0.06	3.37	-0.01	0.01	0.07	0.36	0.80	97.0	25	356

NO0039R K rvatn
January 2016 - December 2016

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	2.41	0.01	0.01	0.01	0.05	0.22	96.2	132	353
Cl-	aerosol	0.17	0.32	0.05	4.70	0.01	0.01	0.04	0.70	2.83	95.9	130	352
EC	pm10	0.04	0.03	0.03	2.17	0.01	0.01	0.03	0.10	0.20	94.0	0	51
EC	pm25	0.04	0.03	0.03	1.96	0.01	0.01	0.03	0.09	0.14	95.9	0	52
HNO3	air	0.02	0.02	0.01	1.72	0.01	0.01	0.01	0.05	0.25	87.2	282	320
HNO3+NO3-	air+aerosol	0.07	0.07	0.05	2.08	0.01	0.02	0.05	0.21	0.55	86.6	0	318
K+	aerosol	0.03	0.02	0.02	2.33	0.01	0.01	0.02	0.08	0.19	96.2	70	353
Mg++	aerosol	0.02	0.03	0.01	2.60	0.01	0.01	0.01	0.07	0.18	96.2	148	353
NH3	air	0.37	0.31	0.24	2.86	0.02	0.02	0.30	0.97	2.15	87.2	33	320
NH3+NH4+	air+aerosol	0.44	0.35	0.31	2.46	0.03	0.04	0.35	1.19	2.51	87.2	0	320
NH4+	aerosol	0.06	0.10	0.03	4.07	0.01	0.01	0.03	0.25	0.78	96.2	121	353
NO2	air	0.15	0.12	0.12	1.96	0.01	0.04	0.12	0.34	1.06	99.5	8	365
NO3-	aerosol	0.04	0.05	0.02	3.10	0.01	0.01	0.03	0.12	0.38	95.9	85	352
Na+	aerosol	0.15	0.21	0.06	4.40	0.01	0.01	0.06	0.60	1.76	96.2	53	353
OC	pm10	0.70	0.57	0.53	2.19	0.13	0.17	0.45	1.94	2.46	94.0	0	51
OC	pm10_pm25	0.23	0.27	0.11	4.02	0.01	0.01	0.12	0.83	1.08	85.4	0	46
OC	pm25	0.49	0.37	0.40	1.96	0.11	0.15	0.40	1.46	1.71	95.9	0	52
OC, Fraction=OC1	pm10	0.03	0.03	0.03	2.22	0.00	0.00	0.03	0.12	0.14	88.5	0	48
OC, Fraction=OC1	pm10_pm25	0.01	0.00	0.01	1.74	0.00	0.00	0.00	0.01	0.01	27.8	0	15
OC, Fraction=OC1	pm25	0.03	0.03	0.03	2.26	0.00	0.00	0.03	0.11	0.15	95.9	0	52
OC, Fraction=OC2	pm10	0.16	0.13	0.12	2.18	0.02	0.03	0.11	0.49	0.64	94.0	0	51
OC, Fraction=OC2	pm10_pm25	0.03	0.03	0.02	3.17	0.00	0.00	0.02	0.10	0.12	70.1	0	38
OC, Fraction=OC2	pm25	0.14	0.11	0.11	2.03	0.03	0.03	0.10	0.42	0.58	95.9	0	52
OC, Fraction=OC3	pm10	0.22	0.18	0.16	2.28	0.05	0.06	0.15	0.58	0.64	94.0	0	51
OC, Fraction=OC3	pm10_pm25	0.11	0.13	0.05	4.72	0.00	0.00	0.06	0.38	0.42	81.6	0	44
OC, Fraction=OC3	pm25	0.13	0.08	0.11	1.82	0.04	0.04	0.10	0.31	0.42	95.9	0	52
OC, Fraction=OC4	pm10	0.10	0.08	0.08	2.04	0.02	0.03	0.08	0.26	0.37	94.0	0	51
OC, Fraction=OC4	pm10_pm25	0.04	0.05	0.02	3.24	0.00	0.00	0.02	0.16	0.24	81.6	0	44
OC, Fraction=OC4	pm25	0.07	0.04	0.06	1.82	0.02	0.02	0.06	0.17	0.22	95.9	0	52
OC, Fraction=OC4Pyr	pm10	0.19	0.17	0.13	2.56	0.02	0.03	0.14	0.55	0.93	94.0	0	51
OC, Fraction=OC4Pyr	pm10_pm25	0.06	0.08	0.03	3.18	0.00	0.00	0.03	0.24	0.38	85.4	0	46
OC, Fraction=OC4Pyr	pm25	0.13	0.12	0.09	2.43	0.02	0.02	0.10	0.42	0.55	95.9	0	52
PM10 mass	pm10	2.52	1.77	2.04	1.99	0.41	0.71	1.92	6.41	8.04	94.0	0	51
PM10-PM25	pm10_pm25	0.95	0.70	0.76	2.28	-0.30	0.11	0.89	2.43	3.00	86.3	0	47
PM25 mass	pm25	1.64	1.30	1.23	2.24	0.24	0.34	1.30	4.87	5.04	88.3	0	48

NO0039R Kärvatn (cont.)
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
SO2	air	0.03	0.05	0.02	2.14	0.01	0.01	0.01	0.08	0.49	87.2	246	320
SO4--	aerosol	0.11	0.13	0.06	3.47	0.01	0.01	0.07	0.38	1.03	95.9	40	352
SO4-- corr	aerosol	0.10	0.13	0.06	3.16	-0.01	0.00	0.06	0.35	1.03	95.9	40	352
TC	pm10	0.74	0.58	0.57	2.12	0.15	0.18	0.52	1.98	2.66	94.0	0	51
TC	pm10_pm25	0.23	0.28	0.12	3.68	0.00	0.01	0.12	0.84	1.14	85.4	0	46
TC	pm25	0.53	0.38	0.43	1.91	0.12	0.17	0.46	1.56	1.76	95.9	0	52

NO0042G Zeppelin mountain (Ny-Å.lesund)
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	110.79	25.06	107.97	1.26	68.33	74.04	108.16	148.88	212.47	92.8	0	8149
Ca++	aerosol	0.02	0.04	0.01	2.59	0.01	0.01	0.02	0.08	0.38	99.7	119	366
Cl-	aerosol	0.33	0.74	0.11	5.09	0.01	0.01	0.14	1.10	7.94	99.7	78	366
HNO3	air	0.02	0.05	0.01	1.57	0.01	0.01	0.01	0.04	0.76	85.8	291	315
HNO3+NO3-	air+aerosol	0.05	0.07	0.04	1.95	0.01	0.02	0.03	0.12	1.12	85.5	0	314
K+	aerosol	0.05	0.11	0.03	2.88	0.01	0.01	0.03	0.15	1.44	99.7	66	366
Mg++	aerosol	0.04	0.05	0.02	2.82	0.01	0.01	0.02	0.11	0.60	99.7	81	366
NH3	air	0.14	0.18	0.10	2.41	0.02	0.03	0.11	0.35	2.38	85.7	70	314
NH3+NH4+	air+aerosol	0.17	0.19	0.13	2.22	0.03	0.03	0.15	0.37	2.43	85.7	0	314
NH4+	aerosol	0.03	0.04	0.01	3.18	0.01	0.01	0.01	0.11	0.25	91.0	196	334
NO3-	aerosol	0.03	0.04	0.02	3.07	0.01	0.01	0.02	0.09	0.36	91.0	143	334
Na+	aerosol	0.23	0.35	0.10	4.27	0.01	0.01	0.14	0.73	3.02	99.7	37	366
SO2	air	0.06	0.17	0.02	2.86	0.01	0.01	0.01	0.33	1.36	94.5	278	347
SO4--	aerosol	0.11	0.13	0.05	3.85	0.01	0.01	0.06	0.38	0.85	99.7	57	366
SO4-- corr	aerosol	0.09	0.13	0.04	3.77	-0.05	0.00	0.04	0.36	0.84	99.7	57	366

NO0056R Hurdal
January 2016 - December 2016

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	2.50	0.01	0.01	0.02	0.08	0.24	90.1	62	330
Cl-	aerosol	0.14	0.23	0.05	4.37	0.01	0.01	0.04	0.66	1.42	89.8	117	329
EC	pm10	0.10	0.05	0.09	1.69	0.03	0.04	0.09	0.19	0.24	100.0	0	53
EC	pm25	0.10	0.05	0.09	1.72	0.03	0.04	0.09	0.20	0.23	100.0	0	53
HNO3	air	0.04	0.06	0.02	2.55	0.01	0.01	0.01	0.12	0.66	80.0	175	293
HNO3+NO3-	air+aerosol	0.16	0.23	0.09	2.92	0.01	0.02	0.08	0.66	1.40	79.7	0	292
K+	aerosol	0.06	0.08	0.03	2.84	0.01	0.01	0.04	0.18	0.88	90.1	39	330
Mg++	aerosol	0.02	0.03	0.01	2.76	0.00	0.01	0.01	0.08	0.25	90.1	141	330
NH3	air	0.15	0.12	0.10	2.51	0.02	0.02	0.12	0.38	0.95	80.0	60	293
NH3+NH4+	air+aerosol	0.30	0.30	0.20	2.64	0.02	0.03	0.21	0.97	1.85	80.0	0	293
NH4+	aerosol	0.15	0.24	0.04	5.62	0.01	0.01	0.05	0.69	1.60	87.1	89	319
NO2	air	0.61	0.79	0.36	2.74	0.01	0.08	0.36	2.32	5.23	99.2	4	364
NO3-	aerosol	0.13	0.20	0.05	4.04	0.01	0.01	0.05	0.53	1.37	86.8	46	318
Na+	aerosol	0.16	0.21	0.07	4.23	0.01	0.01	0.07	0.64	1.68	90.1	39	330
OC	pm10	0.94	0.48	0.83	1.66	0.23	0.38	0.88	2.01	2.62	100.0	0	53
OC	pm10_pm25	0.30	0.28	0.18	3.09	0.01	0.03	0.23	0.94	1.13	93.4	0	49
OC	pm25	0.66	0.33	0.60	1.59	0.28	0.29	0.61	1.21	1.96	100.0	0	53
OC, Fraction=OC1	pm10	0.04	0.03	0.03	1.91	0.01	0.01	0.03	0.09	0.13	100.0	0	53
OC, Fraction=OC1	pm10_pm25	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.01	0.01	51.3	0	27
OC, Fraction=OC1	pm25	0.04	0.04	0.03	2.09	0.01	0.01	0.04	0.11	0.22	100.0	0	53
OC, Fraction=OC2	pm10	0.20	0.12	0.17	1.69	0.06	0.08	0.17	0.45	0.70	100.0	0	53
OC, Fraction=OC2	pm10_pm25	0.03	0.03	0.02	3.03	0.00	0.00	0.02	0.12	0.13	83.8	0	44
OC, Fraction=OC2	pm25	0.18	0.10	0.15	1.68	0.06	0.07	0.16	0.37	0.60	100.0	0	53
OC, Fraction=OC3	pm10	0.26	0.17	0.21	1.90	0.05	0.09	0.19	0.61	0.80	100.0	0	53
OC, Fraction=OC3	pm10_pm25	0.15	0.14	0.07	4.00	0.00	0.01	0.10	0.44	0.49	87.6	0	46
OC, Fraction=OC3	pm25	0.13	0.06	0.12	1.41	0.07	0.08	0.12	0.24	0.45	100.0	0	53
OC, Fraction=OC4	pm10	0.12	0.07	0.11	1.69	0.03	0.05	0.11	0.26	0.34	100.0	0	53
OC, Fraction=OC4	pm10_pm25	0.06	0.05	0.04	2.59	0.00	0.01	0.06	0.17	0.18	76.1	0	40
OC, Fraction=OC4	pm25	0.08	0.04	0.07	1.42	0.04	0.04	0.07	0.16	0.25	100.0	0	53
OC, Fraction=OCFyr	pm10	0.32	0.17	0.28	1.72	0.08	0.09	0.27	0.67	0.76	100.0	0	53
OC, Fraction=OCFyr	pm10_pm25	0.09	0.08	0.06	2.69	0.00	0.01	0.06	0.28	0.34	93.4	0	49
OC, Fraction=OCFyr	pm25	0.23	0.15	0.19	1.92	0.06	0.07	0.18	0.55	0.64	100.0	0	53
PM10 mass	pm10	4.00	1.71	3.63	1.59	0.90	1.63	3.75	7.52	7.70	100.0	0	53
PM10-PM25	pm10_pm25	1.37	0.71	1.13	2.08	0.05	0.23	1.30	2.76	3.24	98.1	0	52
PM25 mass	pm25	2.61	1.40	2.27	1.73	0.85	0.91	2.19	5.50	5.93	98.1	0	52
SO2	air	0.03	0.06	0.02	2.40	0.01	0.01	0.01	0.13	0.67	83.0	216	304
SO4--	aerosol	0.17	0.20	0.10	3.19	0.01	0.01	0.11	0.51	1.96	89.8	11	329
SO4-- corr	aerosol	0.16	0.20	0.09	3.32	-0.04	0.01	0.10	0.49	1.82	89.8	11	329
TC	pm10	1.04	0.50	0.93	1.61	0.28	0.42	0.97	2.15	2.72	100.0	0	53
TC	pm10_pm25	0.31	0.28	0.19	2.93	0.02	0.02	0.21	0.96	1.12	91.5	0	48
TC	pm25	0.76	0.36	0.69	1.57	0.31	0.34	0.69	1.37	2.11	100.0	0	53

PL0002R Jarczew
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.61	0.41	0.50	1.97	0.05	0.13	0.54	1.41	3.11	98.9	2	363
HNO3+NO3-	air+aerosol	0.57	0.41	0.45	2.00	0.04	0.16	0.44	1.39	2.40	98.9	0	363
NH3+NH4+	air+aerosol	2.54	1.41	2.24	1.65	0.57	0.96	2.19	5.21	11.93	98.9	0	363
NH4+	aerosol	0.88	0.53	0.74	1.85	0.06	0.25	0.75	1.90	3.35	98.9	0	363
NO2	air	1.98	1.07	1.75	1.62	0.40	0.90	1.70	4.30	6.60	98.9	0	363
NO3-	aerosol	0.43	0.35	0.31	2.27	0.02	0.09	0.30	1.17	2.00	98.9	0	363
SO2	air	0.95	0.64	0.75	2.06	0.10	0.20	0.80	2.20	4.50	98.9	9	363
SO4--	aerosol	0.96	0.46	0.83	1.83	0.10	0.24	0.94	1.76	2.51	98.9	6	363
SO4-- corr	aerosol	0.96	0.46	0.83	1.83	0.10	0.22	0.94	1.74	2.51	98.9	6	363

PL0003R Sniezka
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.50	0.28	0.42	1.89	0.05	0.13	0.46	0.99	1.78	100.0	4	367
HNO3+NO3-	air+aerosol	0.57	0.20	0.53	1.48	0.11	0.26	0.56	0.89	1.22	100.0	0	367
NH3+NH4+	air+aerosol	0.81	0.42	0.71	1.71	0.12	0.28	0.76	1.50	3.29	100.0	0	367
NH4+	aerosol	0.58	0.31	0.50	1.82	0.06	0.16	0.56	1.14	2.19	100.0	0	367
NO2	air	1.10	0.35	1.04	1.39	0.30	0.60	1.10	1.70	2.40	100.0	0	367
NO3-	aerosol	0.44	0.16	0.41	1.49	0.06	0.21	0.43	0.70	0.90	100.0	0	367
SO2	air	1.08	0.43	1.00	1.45	0.40	0.60	1.00	1.80	3.80	100.0	0	367
SO4--	aerosol	0.92	0.42	0.82	1.64	0.10	0.33	0.87	1.69	2.90	100.0	1	367
SO4-- corr													

PL0004R Leba
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.77	0.51	0.62	2.01	0.05	0.14	0.67	1.80	3.33	99.2	1	364
HNO3+NO3-	air+aerosol	0.47	0.44	0.34	2.25	0.05	0.09	0.33	1.32	2.76	99.2	0	364
NH3+NH4+	air+aerosol	1.32	0.88	1.09	1.87	0.12	0.40	1.09	3.00	6.52	99.2	0	364
NH4+	aerosol	0.71	0.49	0.58	1.95	0.06	0.19	0.58	1.74	3.37	99.2	0	364
NO2	air	1.45	1.01	1.18	1.92	0.20	0.40	1.20	3.75	6.00	98.6	0	362
NO3-	aerosol	0.40	0.43	0.26	2.52	0.02	0.07	0.23	1.23	2.72	99.2	0	364
SO2	air	0.69	0.52	0.55	1.95	0.10	0.20	0.60	1.68	3.40	99.2	6	364
SO4--	aerosol	0.90	0.48	0.77	1.82	0.10	0.26	0.82	1.81	2.37	99.2	3	364
SO4-- corr	aerosol	0.90	0.47	0.76	1.81	0.10	0.26	0.81	1.77	2.37	99.2	3	364

PL0005R Diabla Gora
January 2016 - December 2016

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	2.01	0.00	0.01	0.03	0.08	0.08	81.7	0	50
Cl-	pm25	0.05	0.04	0.03	3.22	0.00	0.00	0.04	0.12	0.17	81.7	0	50
EC	pm25	0.47	0.35	0.37	2.00	0.06	0.12	0.37	1.14	2.72	94.8	0	347
HNO3	air	0.19	0.10	0.17	1.66	0.02	0.07	0.16	0.39	0.83	98.8	0	362
HNO3+NO3-	air+aerosol	0.57	0.45	0.46	1.93	0.08	0.17	0.43	1.46	3.18	99.9	0	366
K+	pm25	0.07	0.06	0.05	2.40	0.01	0.01	0.06	0.20	0.33	81.7	0	50
Mg++	pm25	0.01	0.00	0.01	1.78	0.00	0.00	0.01	0.02	0.02	81.7	0	50
NH3	air	0.77	0.60	0.58	2.19	0.03	0.15	0.62	1.79	5.49	99.4	0	364
NH3+NH4+	air+aerosol	1.45	0.92	1.20	1.92	0.12	0.34	1.25	3.41	5.53	99.4	0	364
NH4+	aerosol	0.70	0.76	0.39	3.33	0.01	0.05	0.44	2.35	5.21	97.5	0	357
NH4+	pm25	0.64	0.52	0.48	2.23	0.04	0.12	0.49	1.78	2.71	81.7	0	50
NO2	air	1.12	0.79	0.93	1.85	0.12	0.35	0.86	2.68	5.70	97.2	0	356
NO3-	aerosol	0.39	0.45	0.24	2.71	0.01	0.06	0.23	1.29	2.96	99.9	0	366
NO3-	pm25	0.31	0.33	0.14	4.03	0.02	0.02	0.24	0.97	1.53	81.7	0	50
Na+	pm25	0.10	0.08	0.08	1.80	0.02	0.03	0.08	0.27	0.45	81.7	0	50
OC	pm25	3.02	2.17	2.45	1.90	0.33	0.81	2.52	7.03	18.07	94.8	0	347
PM10 mass	pm10	15.76	9.96	13.49	1.73	2.61	5.78	12.98	33.36	82.97	95.1	0	348
PM25 mass	pm25	11.44	8.17	9.33	1.88	1.76	3.33	9.20	26.40	65.31	94.8	0	347
SO2	air	0.16	0.16	0.11	2.17	0.02	0.03	0.11	0.48	1.14	98.3	0	360
SO4--	aerosol	0.54	0.42	0.42	2.06	0.02	0.13	0.44	1.41	3.26	99.9	0	366
SO4--	pm25	0.47	0.28	0.42	1.59	0.18	0.20	0.39	1.15	1.75	81.7	0	50
SO4-- corr	pm25	0.47	0.28	0.41	1.60	0.18	0.20	0.38	1.14	1.74	81.7	0	50
TC	pm25	3.49	2.50	2.85	1.88	0.47	0.97	2.93	8.26	20.79	94.8	0	347

PL0009R Zielonka
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	pm25	0.10	0.07	0.08	2.24	0.01	0.01	0.09	0.23	0.37	80.1	0	49
Cl-	pm25	0.13	0.14	0.08	2.75	0.01	0.02	0.07	0.47	0.58	80.1	0	49
EC	pm25	0.68	0.66	0.49	2.34	0.03	0.10	0.50	1.77	6.41	46.2	0	169
K+	pm25	0.09	0.06	0.08	1.83	0.02	0.03	0.08	0.26	0.32	80.1	0	49
Mg++	pm25	0.01	0.01	0.01	2.22	0.00	0.00	0.01	0.03	0.04	80.1	0	49
NH4+	pm25	0.69	0.49	0.54	2.11	0.11	0.12	0.58	1.91	2.15	80.1	0	49
NO3-	pm25	0.39	0.38	0.23	3.13	0.03	0.04	0.25	1.35	1.45	80.1	0	49
Na+	pm25	0.09	0.05	0.08	1.79	0.01	0.03	0.09	0.18	0.25	80.1	0	49
OC	pm25	4.29	3.83	3.23	2.08	0.33	1.14	3.01	11.69	23.99	46.2	0	169
PM10 mass	pm10	15.62	9.90	13.17	1.80	1.93	4.66	13.09	34.88	81.60	94.3	0	345
PM25 mass	pm25	12.21	9.44	9.52	2.04	0.68	2.97	9.47	30.92	73.10	91.0	0	333
SO4--	pm25	0.56	0.29	0.50	1.61	0.17	0.21	0.49	1.25	1.54	80.1	0	49
SO4-- corr	pm25	0.56	0.29	0.49	1.63	0.16	0.21	0.49	1.23	1.53	80.1	0	49
TC	pm25	4.97	4.34	3.80	2.03	0.48	1.40	3.57	13.91	29.85	46.2	0	169

RS0005R Kamenicki vis
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NO2	air	0.39	0.21	0.36	1.46	0.30	0.30	0.30	0.91	1.31	54.6	0	200
PM10 mass	pm10	16.75	10.43	14.03	1.91	0.20	4.40	15.00	33.60	85.10	78.4	0	287
SO2	air	4.69	5.12	2.80	2.82	0.75	0.75	3.10	17.56	28.15	71.9	0	263

RU0018R Danki
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.38	0.30	0.26	2.75	0.01	0.04	0.29	0.94	1.80	97.0	0	356
NO3-	aerosol	0.19	0.22	0.09	3.78	0.01	0.01	0.11	0.66	1.11	97.0	0	356
SO2	air	0.21	0.37	0.09	3.73	0.01	0.01	0.08	0.87	3.54	97.0	0	356
SO4--	aerosol	0.35	0.40	0.18	3.83	0.01	0.01	0.24	1.14	2.42	97.0	0	356

RU0020R Lesnoy
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
NH4+	aerosol	0.20	0.10	0.17	1.94	0.01	0.06	0.19	0.36	0.49	99.1	0	52
NO3-	aerosol	0.11	0.12	0.06	3.14	0.01	0.01	0.07	0.39	0.54	99.1	0	52
SO2	air	0.13	0.12	0.08	2.83	0.01	0.01	0.08	0.39	0.43	99.1	0	52
SO4--	aerosol	0.42	0.34	0.27	3.17	0.01	0.02	0.36	1.06	1.64	99.1	0	52

SE0005R BredkÅulen
January 2016 - December 2016

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	1.93	0.01	0.01	0.01	0.03	0.16	99.1	321	363
Cl-	aerosol	0.12	0.22	0.03	5.98	0.01	0.01	0.03	0.51	1.68	99.1	171	363
HNO3	air	0.02	0.02	0.02	1.89	0.00	0.00	0.01	0.05	0.14	98.9	56	363
HNO3+NO3-	air+aerosol	0.04	0.04	0.02	2.37	0.01	0.01	0.02	0.10	0.33	98.8	36	362
K+	aerosol	0.01	0.02	0.01	2.34	0.01	0.01	0.01	0.04	0.30	99.1	280	363
Mg++	aerosol	0.01	0.02	0.01	2.26	0.01	0.01	0.01	0.04	0.12	98.8	266	362

SE005R Bredkålen (cont.)
January 2016 - December 2016

Component	matrix	Arit	Arit	Geom	Geom	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
		mean	sd	mean	sd								
NH3	air	0.06	0.09	0.03	3.56	0.01	0.01	0.04	0.19	0.87	99.7	101	366
NH3+NH4+	air+aerosol	0.13	0.14	0.08	2.76	0.01	0.01	0.09	0.42	1.01	99.7	0	365
NH4+	aerosol	0.07	0.09	0.03	3.83	0.01	0.01	0.04	0.28	0.51	99.5	97	365
NO2	air	0.08	0.09	0.06	1.84	0.05	0.05	0.05	0.30	0.59	98.6	306	361
NO3-	aerosol	0.02	0.02	0.01	3.20	0.00	0.00	0.01	0.07	0.19	98.9	23	363
Na+	aerosol	0.10	0.12	0.04	4.30	0.01	0.01	0.06	0.34	0.96	99.4	96	364
PM10 mass	pm10	3.09	1.84	2.62	1.81	0.50	1.00	2.60	6.90	11.00	96.2	0	353
PM25 mass	pm25	2.11	1.24	1.80	1.79	0.30	0.70	1.80	4.60	7.20	95.1	0	349
SO2	air	0.03	0.10	0.01	3.25	0.01	0.01	0.01	0.12	1.33	98.9	175	363
SO4--	aerosol	0.09	0.11	0.05	3.10	0.01	0.01	0.05	0.35	0.58	99.4	26	364
SO4-- corr	aerosol	0.09	0.11	0.05	3.28	0.00	0.00	0.05	0.35	0.58	99.4	26	364
SPM	aerosol	0.39	0.14	0.38	1.15	0.38	0.38	0.38	0.38	2.37	95.8	347	351

SE0011R Vavihill
January 2016 - December 2016

Component	matrix	Arit	Arit	Geom	Geom	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
		mean	sd	mean	sd								
PM10 mass	pm10	12.68	6.45	11.09	1.74	-2.60	4.20	11.70	24.57	61.60	85.0	0	7465
PM25 mass	pm25	6.04	7.25	3.93	2.40	0.80	1.00	3.25	21.97	41.40	13.7	0	50

SE0012R Aspveten
January 2016 - December 2016

Component	matrix	Arit	Arit	Geom	Geom	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
		mean	sd	mean	sd								
Ca++	aerosol	0.04	0.08	0.02	3.95	0.01	0.01	0.01	0.14	0.90	98.8	203	362
Cl-	aerosol	0.24	0.49	0.04	7.25	0.01	0.01	0.05	1.07	3.98	99.1	136	363
HNO3	air	0.08	0.07	0.06	2.26	0.00	0.01	0.06	0.22	0.47	99.2	15	364
HNO3+NO3-	air+aerosol	0.20	0.18	0.15	2.16	0.02	0.04	0.16	0.55	1.59	99.1	0	363
K+	aerosol	0.04	0.06	0.02	3.55	0.01	0.01	0.03	0.11	0.59	98.8	170	362
Mg++	aerosol	0.04	0.05	0.02	3.38	0.01	0.01	0.03	0.14	0.32	98.8	136	362
NH3	air	0.14	0.11	0.09	3.15	0.01	0.01	0.11	0.34	0.63	99.2	34	364
NH3+NH4+	air+aerosol	0.33	0.30	0.23	2.33	0.01	0.05	0.24	0.91	2.62	99.1	0	363
NH4+	aerosol	0.19	0.26	0.09	3.73	0.01	0.01	0.12	0.63	2.54	99.2	29	364
NO2	air	0.44	0.32	0.35	2.08	0.05	0.05	0.37	1.06	2.62	98.9	28	362
NO3-	aerosol	0.12	0.15	0.08	2.74	0.00	0.02	0.08	0.39	1.28	99.2	1	364
Na+	aerosol	0.30	0.34	0.17	3.40	0.01	0.01	0.19	0.93	2.46	98.8	18	362
PM10 mass	pm10	7.86	5.36	6.59	1.95	-3.00	1.70	6.80	18.20	48.30	89.0	0	7820
PM25 mass	pm25	4.40	3.52	3.31	2.24	0.00	0.70	3.50	11.90	23.70	97.0	0	356
SO2	air	0.10	0.18	0.05	3.67	0.01	0.01	0.06	0.29	2.23	99.1	61	363
SO4--	aerosol	0.24	0.23	0.16	2.55	0.01	0.03	0.19	0.67	1.46	99.1	1	363
SO4-- corr	aerosol	0.21	0.23	0.13	2.92	0.01	0.02	0.16	0.64	1.45	99.1	1	363

SE0014R RÅVÅT
January 2016 - December 2016

Component	matrix	Arit	Arit	Geom	Geom	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
		mean	sd	mean	sd								
Ca++	aerosol	0.10	0.10	0.05	4.13	0.01	0.01	0.07	0.29	0.54	98.6	87	361
Cl-	aerosol	2.25	3.18	0.42	11.92	0.01	0.01	0.70	9.57	15.44	98.6	59	361
HNO3	air	0.11	0.11	0.08	2.38	0.00	0.01	0.08	0.34	0.65	98.9	8	363
HNO3+NO3-	air+aerosol	0.38	0.37	0.25	2.67	0.01	0.05	0.28	1.11	2.87	98.9	3	363
K+	aerosol	0.09	0.08	0.06	3.07	0.01	0.01	0.07	0.25	0.72	98.8	45	362
Mg++	aerosol	0.20	0.23	0.08	4.86	0.01	0.01	0.11	0.73	1.11	98.6	56	361
NH3	air	0.27	0.25	0.15	3.90	0.01	0.01	0.20	0.78	1.48	98.4	33	361
NH3+NH4+	air+aerosol	0.53	0.47	0.37	2.49	0.01	0.07	0.40	1.59	3.52	98.4	0	361
NH4+	aerosol	0.26	0.36	0.14	3.30	0.01	0.02	0.14	0.98	3.15	98.4	13	361
NO2	air	1.09	0.81	0.87	1.99	0.05	0.33	0.90	2.72	6.27	98.8	4	362
NO3-	aerosol	0.27	0.32	0.14	3.69	0.00	0.02	0.17	0.91	2.63	98.9	4	363
Na+	aerosol	1.54	1.87	0.56	5.86	0.01	0.03	0.79	5.90	9.06	98.8	16	362
PM10 mass	pm10	12.57	7.36	10.57	1.85	1.40	3.70	11.00	26.00	40.00	97.3	0	357
PM25 mass	pm25	3.77	2.51	3.15	1.84	0.40	1.10	3.10	9.10	17.00	95.1	0	349
SO2	air	0.12	0.12	0.06	3.60	0.01	0.01	0.08	0.36	0.73	99.1	50	363
SO4--	aerosol	0.33	0.22	0.24	2.53	0.01	0.04	0.30	0.73	1.23	98.9	6	363
SO4-- corr	aerosol	0.20	0.19	0.13	2.96	-0.01	0.01	0.14	0.60	1.22	98.9	6	363
SPM	aerosol	0.89	0.93	0.61	2.21	0.38	0.38	0.38	2.91	6.66	97.7	258	358

SE0020R Hallahus
January 2016 - December 2016

Component	matrix	Arit	Arit	Geom	Geom	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
		mean	sd	mean	sd								
Ca++	aerosol	0.08	0.11	0.04	3.56	0.01	0.01	0.05	0.26	0.91	96.7	74	354
Cl-	aerosol	0.52	1.01	0.07	9.22	0.01	0.01	0.07	2.69	7.18	96.7	105	354
HNO3	air	0.12	0.11	0.09	2.34	0.00	0.02	0.09	0.34	0.75	96.7	5	354
HNO3	air	0.15	0.02	0.15	1.18	0.11	0.11	0.14	0.18	0.18	83.7	0	10
HNO3+NO3-	air+aerosol	0.39	0.34	0.28	2.44	0.01	0.07	0.30	1.04	2.62	96.7	3	354
HNO3+NO3-	air+aerosol	0.47	0.18	0.44	1.49	0.22	0.22	0.47	0.77	0.77	83.7	0	10
K+	aerosol	0.07	0.05	0.05	2.54	0.01	0.01	0.06	0.15	0.58	96.7	39	354
Mg++	aerosol	0.07	0.08	0.03	3.72	0.01	0.01	0.04	0.24	0.51	96.7	83	354
NH3	air	0.38	0.36	0.24	3.04	0.01	0.04	0.27	1.08	2.39	96.1	8	352
NH3	air	0.41	0.26	0.34	2.01	0.12	0.12	0.40	0.94	0.94	83.7	0	10
NH3+NH4+	air+aerosol	0.69	0.55	0.50	2.40	0.01	0.14	0.55	1.83	3.28	96.1	0	352
NH3+NH4+	air+aerosol	1.08	0.52	1.00	1.53	0.56	0.56	0.89	2.28	2.28	83.7	0	10
NH4+	aerosol	0.31	0.39	0.15	3.75	0.01	0.02	0.17	1.11	2.84	96.1	15	352
NH4+	aerosol	0.67	0.35	0.59	1.74	0.22	0.22	0.63	1.35	1.35	83.7	0	10
NO2	air	0.96	0.71	0.80	1.80	0.05	0.34	0.80	2.25	5.36	97.5	1	357
NO3-	aerosol	0.27	0.29	0.16	3.17	0.00	0.02	0.18	0.81	2.41	96.7	3	354
NO3-	aerosol	0.32	0.17	0.28	1.83	0.09	0.09	0.30	0.64	0.64	83.7	0	10
Na+	aerosol	0.50	0.63	0.23	4.14	0.01	0.02	0.24	1.82	4.11	96.7	17	354
SO2	air	0.13	0.17	0.06	3.56	0.01	0.01	0.06	0.52	1.07	96.7	36	354
SO4--	aerosol	0.29	0.23	0.21	2.48	0.01	0.05	0.24	0.77	1.78	96.7	7	354
SO4-- corr	aerosol	0.25	0.24	0.17	2.76	-0.08	0.02	0.18	0.72	1.73	96.7	7	354
SPM	aerosol	0.74	0.93	0.51	2.01	0.38	0.38	0.38	2.37	7.02	90.4	272	331

SI0008R Iskrba
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.12	0.14	0.08	2.67	0.00	0.01	0.08	0.38	1.13	99.4	40	364
Ca++	pm25	0.02	0.02	0.02	1.58	0.01	0.01	0.01	0.06	0.26	49.2	168	180
Cl-	aerosol	0.07	0.13	0.03	3.19	0.00	0.01	0.03	0.30	1.03	99.4	260	364
Cl-	pm25	0.02	0.02	0.01	2.27	0.01	0.01	0.01	0.06	0.09	49.2	126	180
EC	pm25	0.19	0.20	0.11	3.11	0.01	0.01	0.01	0.63	1.20	49.5	28	181
HNO3	air	0.05	0.04	0.04	2.21	0.00	0.01	0.04	0.12	0.27	99.5	4	365
HNO3+NO3-	air+aerosol	0.18	0.18	0.12	2.39	0.01	0.03	0.12	0.56	1.54	99.5	60	365
K+	aerosol	0.12	0.09	0.09	1.87	0.02	0.04	0.09	0.34	0.72	99.4	46	364
K+	pm25	0.12	0.10	0.08	2.87	0.00	0.00	0.09	0.35	0.61	49.2	10	180
Mg++	aerosol	0.04	0.03	0.03	2.13	0.00	0.00	0.03	0.10	0.20	99.4	150	364
Mg++	pm25	0.01	0.01	0.00	3.93	0.00	0.00	0.00	0.03	0.04	48.9	131	179
NH3	air	0.25	0.17	0.20	2.03	0.01	0.06	0.21	0.56	0.93	99.4	112	364
NH3+NH4+	air+aerosol	0.68	0.43	0.55	1.95	0.08	0.16	0.59	1.50	2.78	99.4	7	364
NH4+	aerosol	0.42	0.38	0.29	2.56	0.02	0.04	0.32	1.21	2.67	99.4	7	364
NH4+	pm25	0.53	0.44	0.36	2.87	0.00	0.06	0.41	1.50	2.31	49.2	2	180
NO2	air	0.51	0.52	0.32	2.89	-0.10	0.06	0.37	1.50	5.12	94.6	3148	8312
NO3-	aerosol	0.13	0.17	0.07	3.10	0.01	0.01	0.07	0.50	1.50	99.5	122	365
NO3-	pm25	0.07	0.14	0.02	5.24	0.00	0.00	0.02	0.41	0.96	49.2	80	180
Na+	aerosol	0.10	0.16	0.05	3.53	0.00	0.01	0.04	0.41	1.05	99.4	231	364
Na+	pm25	0.03	0.05	0.01	3.94	0.00	0.00	0.02	0.15	0.35	49.2	54	180
OC	pm25	2.63	1.61	2.25	1.79	0.23	1.09	2.16	6.23	11.29	49.2	4	180
PM10 mass	pm10	11.42	5.70	10.12	1.66	2.10	3.70	10.20	23.02	38.30	96.2	0	353
PM25 mass	pm25	9.29	5.28	8.04	1.72	1.40	3.19	7.90	19.12	31.80	97.3	0	357
SO2	air	0.14	0.26	0.08	3.23	0.00	0.00	0.05	0.57	2.09	99.5	106	365
SO4--	aerosol	0.48	0.42	0.33	2.53	0.02	0.06	0.38	1.34	2.37	99.5	7	365
SO4--	pm25	0.54	0.45	0.36	2.85	0.01	0.06	0.42	1.46	2.58	49.2	4	180
SO4-- corr	aerosol	0.47	0.42	0.32	2.57	0.02	0.06	0.38	1.34	2.36	99.5	7	365
SO4-- corr	pm25	0.53	0.45	0.35	2.87	0.01	0.06	0.42	1.46	2.57	49.2	4	180
TC	pm25	2.81	1.76	2.40	1.78	0.24	1.12	2.28	6.62	12.48	49.2	2	180

SI0032R Krvavec
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
CO	air	141.18	34.50	141.68	1.20	0.00	103.40	137.90	194.00	331.90	95.4	172	8379

SK0002R Chopok
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cl-	aerosol	0.13	0.06	0.10	2.26	0.00	0.02	0.13	0.23	0.29	66.6	4	244
HNO3	air	0.07	0.06	0.05	2.32	0.01	0.01	0.05	0.18	0.36	67.4	1	247
NO2	air	0.72	0.33	0.59	2.30	0.01	0.14	0.69	1.29	2.40	94.4	6	346
NO3-	aerosol	0.10	0.08	0.07	2.65	0.01	0.01	0.08	0.24	0.53	66.6	0	244
SO2	air	0.27	0.31	0.18	2.47	0.00	0.04	0.19	0.76	2.75	67.4	0	247
SO4--	aerosol	0.18	0.18	0.09	3.94	0.00	0.01	0.13	0.55	1.00	66.6	0	244
SO4-- corr	aerosol	0.16	0.18	0.09	4.17	-0.17	-0.01	0.12	0.51	0.98	66.6	0	244

SK0004R Starã Lesnã
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	4.45	4.32	2.63	3.03	0.39	0.39	2.84	13.50	13.50	24.9	0	14

SK0006R Starina
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Ca++	aerosol	0.13	0.15	0.09	2.36	0.00	0.02	0.09	0.32	1.24	64.7	1	237
Cl-	aerosol	0.20	0.12	0.16	2.32	0.01	0.03	0.18	0.41	0.83	66.3	5	243
HNO3	air	0.07	0.07	0.05	2.03	0.01	0.02	0.05	0.23	0.54	65.2	0	239
K+	aerosol	0.15	0.16	0.10	2.67	0.00	0.02	0.11	0.42	1.13	64.9	2	238
Mg++	aerosol	0.02	0.02	0.02	2.88	0.00	0.00	0.02	0.06	0.13	64.7	23	237
NH3	air	1.39	1.25	0.91	2.59	0.10	0.22	0.92	4.34	4.91	49.6	0	182
NH4+	aerosol	0.77	0.74	0.57	2.25	0.01	0.16	0.57	1.95	5.56	64.4	0	236
NO2	air	1.32	0.66	1.18	1.69	0.04	0.58	1.19	2.85	4.39	95.0	0	348
NO3-	aerosol	0.26	0.30	0.16	2.80	0.00	0.03	0.18	0.98	1.98	66.0	0	242
Na+	aerosol	0.19	0.12	0.15	1.93	0.01	0.05	0.16	0.44	0.77	64.7	0	237
PM10 mass	pm10	3.29	2.27	2.43	2.24	0.81	0.81	2.66	7.03	7.03	30.9	0	17
SO2	air	0.50	0.61	0.34	2.33	0.02	0.08	0.33	1.88	4.78	65.2	0	239
SO4--	aerosol	0.58	0.47	0.40	2.81	0.00	0.04	0.50	1.30	3.44	65.8	0	241
SO4-- corr	aerosol	0.57	0.47	0.39	2.87	-0.01	0.02	0.48	1.29	3.43	65.8	0	241

SK0007R Topolniky
January 2016 - December 2016

Component	matrix	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PM10 mass	pm10	3.90	2.87	3.21	1.84	1.62	1.62	2.95	11.59	11.59	24.3	0	13

Annex 4

Overview of sampling and analytical methods 2016

Country: Armenia		Main components- EMEP		Year: 2016	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
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	
Air					
Sulphur dioxide	AM0001R	KOH-impregnated Whatman 40 filter 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrogen dioxide	AM0001R	Nal-impregnated glass sinters, 0.6 m ³ /day	Daily	Spectrophotometric, Griess method	
Nitric acid	AM0001R	KOH-impregnated Whatman 40 filter 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonia	AM0001R	Oxalic acid-impregnated Whatman 40 filter, 20–25 m ³ /day (Filterpack)	Daily	Spectrophotometric, Nessler method	
Ozone	AM0001R				
Sulphate	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Nitrate	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
Ammonium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Spectrophotometric, Nessler method	
Sodium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Calcium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Magnesium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Potassium	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	ICP-MS	
Chloride	AM0001R	Teflon filter, Pall Zefluor 2 µm, 47 mm diameter, 20–25 m ³ /day (Filterpack)	Daily	Ion chromatography	
PM ₁₀					
PM _{2.5}					
PM ₁					
Sum of nitric acid and nitrate	AM0001R	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	

Country: Austria		Main components and ozone - EMEP		Year: 2016	
	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	
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Belarus		Main components and ozone - EMEP		Year: 2016	
	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}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Belgium		Main components and ozone - EMEP		Year: 2016	
	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}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Croatia		Main components and ozone - EMEP		Year: 2016	
	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}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Cyprus		Main components and ozone - EMEP		Year: 2016	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount					
Precipitation amount, official gauge					
Sulphate					
Nitrate					
Ammonium					
Magnesium					
Sodium					
Chloride					
Calcium					
Potassium					
Conductivity					
pH					
Air					
Sulphur dioxide	CY02	Instrumental: UV-fluorescence	Hourly	UV-fluorescence	
Nitrogen dioxide	CY02	Instrumental: Chemiluminescence	Hourly	Chemiluminescence	
Nitric acid					
Ammonia					
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 PM _{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: 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, 24 m ³ /day	Every 6 th day	HD-FID (Thermal-optical method)

Country: Denmark		Main components and ozone - EMEP		Year: 2016	
	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}					
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: 2016	
	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}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Finland		Main components and ozone - EMEP		Year: 2016	
	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	
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: 2016	
	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	
PM _{2.5}	FR09, FR13, FR15, FR18, FR23, FR24, FR25	TEOM FDMS, MP101M	Hourly	TEOM FDMS	
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: 2016
	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				
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: 2016	
	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	

Country: Greece		Main components and ozone - EMEP		Year: 2016	
	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	Instrumental: UV-monitor	Hourly	UV-absorption	
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	GR01	Instrumental: beta gauge	Hourly	Beta radiation attenuation	
PM _{2.5}	GR01	Instrumental: beta gauge	Hourly	Beta radiation attenuation	
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Hungary		Main components and ozone - EMEP		Year: 2016	
	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	
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					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Iceland		Main components and ozone - EMEP		Year: 2016	
	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	ICP-OES	
Nitrate	IS02	NILU bulk sampler	Daily	Spectrophotometry by FIA	
Ammonium					
Magnesium	IS02	NILU bulk sampler	Daily	ICP-OES	
Sodium	IS02	NILU bulk sampler	Daily	ICP-OES	
Chloride	IS02	NILU bulk sampler	Daily	ICP-OES	
Calcium	IS02	NILU bulk sampler	Daily	ICP-OES	
Potassium	IS02	NILU bulk sampler	Daily	ICP-OES	
Conductivity	IS02	NILU bulk sampler	Daily	Conductivity meter	
pH	IS02	NILU bulk sampler	Daily	pH meter	
Air					
Sulphur dioxide	IS02	KOH impregnated Whatman 40 filter, 30 m ³ /day	Daily	ICP-OES	
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
Nitrate					
Ammonium					
Sodium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
Calcium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
Magnesium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
Potassium	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
Chloride	IS02	Whatman 40 filter, 30 m ³ /day, prefilter for aerosol	Daily	ICP-OES	
PM ₁₀					
PM _{2.5}					
PM ₁					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Ireland: IE01 (lab.: Met Éireann)		Main components and ozone - EMEP		Year: 2016	
	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	Nal 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}					
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, IT04 (lab.: JRC)		Main components and ozone - EMEP		Year: 2016	
	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	
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: 2016	
	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					
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					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Latvia		Main components and ozone - EMEP		Year: 2016	
	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	
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					
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	

Country: Lithuania		Main components and ozone - EMEP		Year: 2016	
	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	
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					
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	

Country: Macedonia		Main components and ozone - EMEP		Year: 2016	
	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					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Malta		Main components and ozone - EMEP		Year: 2016	
	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	MT0001R	Instrumental: UV-fluorescence monitor	Hourly	UV-fluorescence	
Nitrogen dioxide	MT0001R	Instrumental: Chemiluminescence monitor	Hourly	Chemiluminescence (molybdenum converter)	
Nitrogen monoxide	MT0001R	Instrumental: Chemiluminescence monitor	Hourly	Chemiluminescence (molybdenum converter)	
Nitric acid					
Ammonia					
Ozone					
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
PM ₁					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					
Acidity					

Country: Moldova		Main components and ozone - EMEP		Year: 2016	
	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					
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: 2016	
	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	
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					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: The Netherlands		Main components and ozone - EMEP	Year: 2016	
	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
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	miniDOAS: open path UV differential absorption, fingerprint 205-230 nm	Hourly	DOAS
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	Wet-only	Daily/4-weekly	HR-ICP/MS
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
Sum of nitric acid and nitrate				
Sum of ammonia and ammonium				

Country: Norway		Main components and ozone - EMEP		Year: 2016	
	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	Nal-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%	
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: 2016	
	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}					
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: 2016	
	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	Ion chromatography	
Nitrate	PL05	Wet-only	Daily	Ion chromatography	
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	Ion chromatography	
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	
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: 2016	
	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	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					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Russian Federation		Main components and ozone - EMEP		Year: 2016	
	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	RU18	NaOH-impregnated Whatman 40 filter, 20-25 m ³ /day	Daily	Ion chromatography	
Sulphur dioxide	RU20	NaOH-impregnated Whatman 40 filter, 20-25 m ³ /day	Weekly	Ion chromatography	
Nitrogen dioxide					
Nitric acid					
Ammonia					
Ozone					
Sulphate	RU18	Whatman 40 filter, 20-25 m ³ /day	Daily	Ion chromatography	
Sulphate	RU20	Whatman 40 filter, 20-25 m ³ /day	Weekly	Ion chromatography	
Nitrate	RU18	Whatman 40 filter, 20-25 m ³ /day	Daily	Ion chromatography	
Nitrate	RU20	Whatman 40 filter, 20-25 m ³ /day	Weekly	Ion chromatography	
Ammonium	RU18	Whatman 40 filter, 20-25 m ³ /day	Daily	Ion chromatography	
Ammonium	RU20	Whatman 40 filter, 20-25 m ³ /day	Weekly	Ion chromatography	
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀					
PM _{2.5}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Serbia		Main components and ozone - EMEP		Year: 2016	
	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	RS05	UV monitor	Hourly		UV-absorption
Sulphate					
Nitrate					
Ammonium					
Sodium					
Calcium					
Magnesium					
Potassium					
Chloride					
PM ₁₀	RS05	Low Volume Sampler, 2.3 m ³ /day	Daily		Gravimetric method
PM _{2.5}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Slovakia		Main components and ozone - EMEP		Year: 2016	
	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, after March MPNS, Sartorius nitrocellulose filter, 24 m ³ /day	Weekly	Gravimetric method	
PM _{2.5}					
Sum of nitric acid and nitrate					
Sum of ammonia and ammonium					

Country: Slovenia		Main components and ozone - EMEP		Year: 2016	
	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	
Nitrogen dioxide	SI08	Instrumental	Hourly	Cavity-Attenuated Phase-Shift (CAPS) spectroscopy	
Ozone	SI08	Instrumental: Ultra Violet (UV) photometry	Hourly	UV absorption	
Sulphate PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	
Nitrate PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	
Ammonium PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	
Sodium PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	
Calcium PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	
Magnesium PM _{2.5}	SI08	Leckel - Low volume sampler	Daily	Ion chromatography	

Country: Spain		Main components and ozone - EMEP		Year: 2016	
	Station	Sampling	Sampling frequency	Analysis method	
Precipitation					
Precipitation amount	All	Wet-only	Daily		
Sulphate	All	Wet-only	Daily	Ion chromatography	
Nitrate	All	Wet-only	Daily	Ion chromatography	
Ammonium	All	Wet-only	Daily	Visible spectrophotometry, Indophenol method	
Magnesium	All	Wet-only	Daily	Atomic absorption spectroscopy	
Sodium	All	Wet-only	Daily	Atomic absorption spectroscopy	
Chloride	All	Wet-only	Daily	Ion chromatography	
Calcium	All	Wet-only	Daily	Atomic absorption spectroscopy	
Potassium	All	Wet-only	Daily	Atomic absorption spectroscopy	
Conductivity	All	Wet-only	Daily	Conductivity meter	
pH	All	Wet-only	Daily	pH meter	
Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn)	ES08, ES09	Wet-only	Weekly	ICP-mass	
Hg	ES08	Wet-only	Weekly	CVAFS (cold vapour atomic fluorescence spectrometry)	
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	
PM ₁₀	ES09, ES12, ES13, ES16	Monitor de partículas en suspensión TEOM	Hourly	Tapered Element Oscillating Microbalance	
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 (started in 2012), ES07, ES08, ES09, ES10, ES11, ES12, ES13, ES14, ES16	High volume sampler	Daily	Gravimetric method	
Sulphate PM ₁₀	All	Whatman GF/A filter, 720 m ³ /day (ES07, ES08, ES10, ES11, ES12, S13, ES14, ES16) / 1632 m ³ /day (ES01, ES05, ES06, ES09, ES17)	Daily	Ion chromatography	
Nitrate PM ₁₀	All	Whatman GF/A filter, 720 m ³ /day (ES07, ES08, ES10, ES11, ES12, S13, ES14, ES16) / 1632 m ³ /day (ES01, ES05, ES06, ES09, ES17)	Daily	Ion chromatography	
Sum of nitric acid and nitrate	All	NaOH impregnated Whatman 40 filter, 35 m ³ /day	Daily	Ion chromatography	
Sum of ammonia and ammonium	All	Oxalic acid impregnated Whatman 40 filter, 35 m ³ /day	Daily	Visible spectrophotometry, Indophenol method	
Ammonium PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Visible spectrophotometry, Indophenol method	
Sodium PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Calcium PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Magnesium PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	

Country: Spain		Main components and ozone - EMEP		Year: 2016	
	Station	Sampling	Sampling frequency	Analysis method	
Potassium PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	Daily	Atomic absorption spectroscopy	
Chloride PM ₁₀	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Ion chromatography	
Sulphate PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Ion chromatography	
Nitrate PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Ion chromatography	
Sodium PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Calcium PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Magnesium PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Potassium PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Atomic absorption spectroscopy	
Ammonium PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Visible spectrophotometry, Indophenol method	
Chloride PM _{2.5}	ES01, ES07, ES08, ES09, ES14	High volume sampler	24 hour, once a week	Ion chromatography	
VOCs	ES01	Canister	Twice a week	Gas chromatography with FID	
Carbonyls	ES01	Cartridges of silica-DNPH	Twice a week	HPLC with UV-Vis detector	
EC/OC PM _{2.5}	ES01, ES07, ES09, ES12, ES14	PM2.5 low volume sampler (55 m ³ /day)	24 hour, once every 6 days (60 samples per year)	Thermal optical	
Heavy metals PM ₁₀ (As, Cd, Cr, Cu, Ni, Pb, Zn) Cu – only in ES09	ES01, ES07, ES08, ES09, ES14	PM10 high volume sampler	24 hour, once every 6 days (60 samples per year)	ICP mass	
PAHs PM ₁₀	ES01, ES07, ES08, ES12, ES14	PM10 high volume sampler	Composed measurements (10 filters in a month-one sample), 12 monthly data per year	Gas chromatography – mass spectrometry	
Total deposition					
Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn)	ES01, ES07, ES08, ES12, ES14	Bulk sampler	Monthly – 4 months (campaign)	ICP-mass	
PAHs	ES01, ES07, ES08, ES12, ES14	Bulk sampler	Monthly – 4 months (campaign)	Gas chromatography – mass spectrometry	
Hg	ES01, ES07, ES08, ES12, ES14	Bulk sampler	Monthly – 4 months (campaign)	Atomic absorption spectroscopy	

Country: Sweden		Main components and ozone - EMEP		Year: 2016	
	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	I/VL Sampler PModel S10	Daily	Gravimetric	
PM _{2.5}	SE05, SE14	I/VL 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: 2016	
	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
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: 2016	
	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	
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:

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

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

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

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

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

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

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.