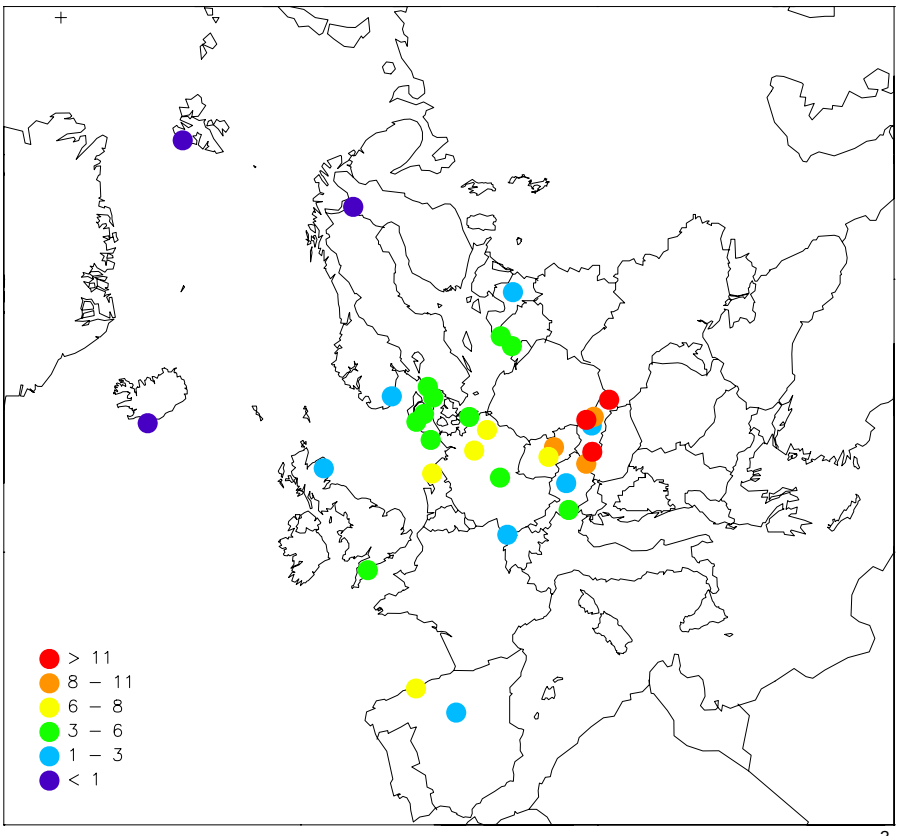
EMEP/CCC-Report 7/2006

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

Heavy metals and POP measurements, 2004

Wenche Aas and Knut Breivik



Pb in aerosols 2004, ng/m^3

Norwegian Institute for Air Research
PO Box 100, NO-2027 Kjeller, Norway
Chemical Co-ordinating Centre of EMEP (CCC)

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Heavy metals and POP measurements, 2004

1. Introduction

Heavy metals and persistent organic pollutants (POPs) were included in EMEP's monitoring program in 1999. However, earlier data has been available and collected, and the EMEP database thus also includes older data, even back to 1988 for a few sites. A number of countries have been reporting heavy metals and POPs within the EMEP area in connection with different national and international programmes such as HELCOM, AMAP and OSPARCOM.

During the seventh phase of EMEP (EB.AIR/GE.1/1998/8) it was recommended that the future works under the Convention should concentrate on eight priority elements: lead (Pb), mercury (Hg), cadmium (Cd), chromium (Cr), nickel (Ni), zinc (Zn), copper (Cu) and arsenic (As). Particular attention should be paid to the first three elements.

The strategic long-term plans on POPs (EB.AIR/GE.1/1997/8) recommended to take a stepwise approach, and the following compounds or groups of compounds should be included in the first step: polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), HCB, chlordane, lindane, α-HCH, DDT/DDE.

These recommendations for heavy metals and POPs are implemented in the new EMEP monitoring strategy and measurement program for 2004–2009 (EB.AIR/GE.1/2004/5).

So far, ten reports have been published (EMEP/CCC-Reports 8/96, 9/97, 7/98, 7/99, 2/2000, 9/2001, 9/2002, 1/2003, 7/2004, 9/2005) which present data on heavy metals and POPs from national and international measurement programmes for the period 1987 to 2003. All these data are also available from the EMEP's homepage, http://www.nilu.no/projects/ccc/emepdata.html. In this report data from 2004 are presented.

2. Measurement programme

The site codes used in this report are the codes used for data submission and storage in the EMEP database, or codes used in the AMAP, OSPARCOM or HELCOM programmes. 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).

2.1 Monitoring sites for heavy metals

The locations of the measurement sites, which have delivered data on heavy metals for 2004, are found in Figure 1 and Table 1. The sites are divided in those measuring both concentrations in air and in precipitation, and those measuring only one of them. In 2004 there were 26 sites measuring heavy metals in both air and precipitation, and altogether there were 63 measurement sites. It was 18 sites measuring at least one form of mercury (Figure 2). Notice that Nuuk in Greenland

is outside the map in Figure 1. From Figure 1 one can see that the spatial resolution in east and southern Europe is unsatisfactory. In addition, it is too few sites measuring both in air and precipitation. The adopted EMEP monitoring strategy for 2004-2009 (EB.AIR/GE.1/2004/5) will expectantly improve this situation

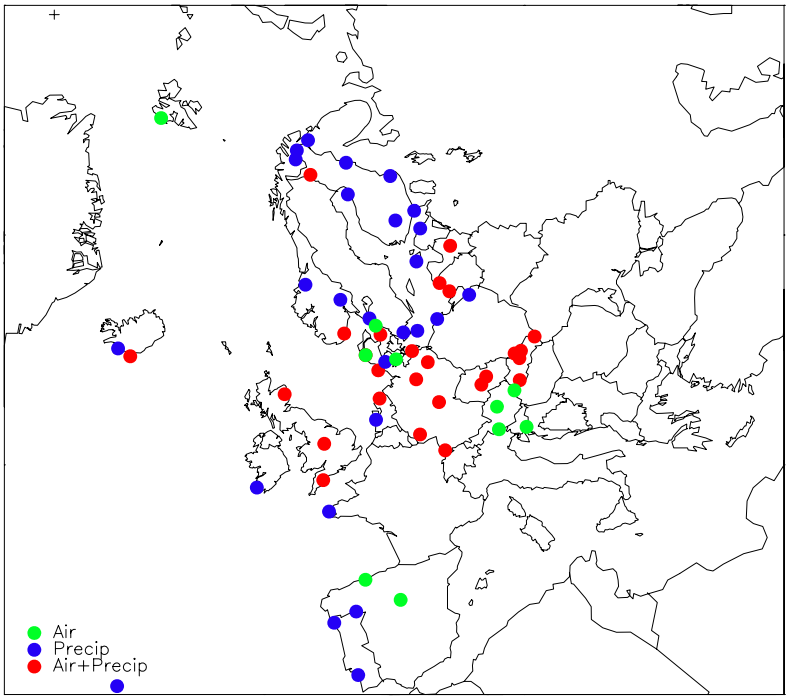

Figure 1: Measurement network of heavy metals, 2004.

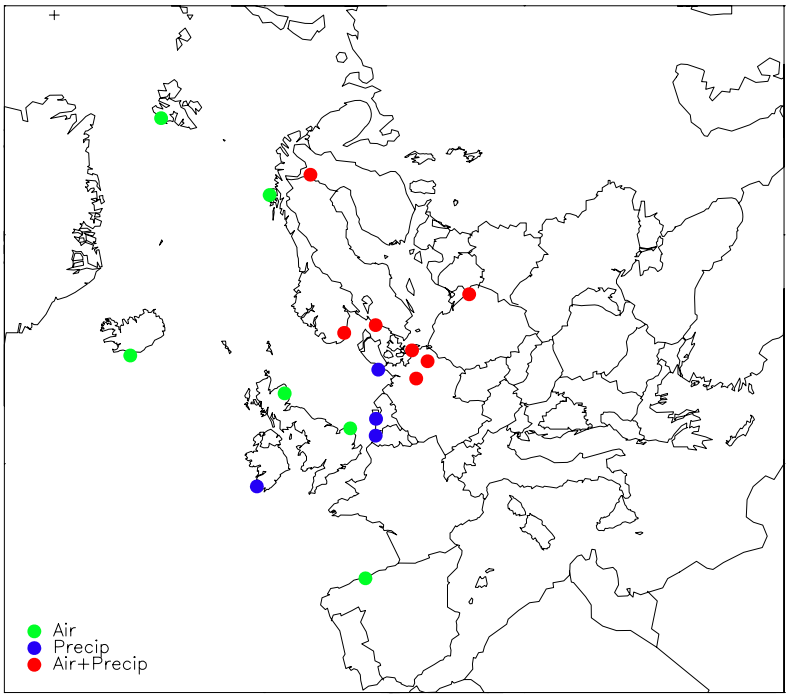

Figure 2: Measurement network of mercury, 2004.

Table 1: Monitoring stations and the sampling program of heavy metals, 2004.

Country	Code	Station name	Latitude				Longitude				hosl	Metals in air	Metals in precipitation
Austria	AT0002R	Illmitz	47	46	0	N	16	46	0	E	117	As, Cd, Pb, Ni	
	AT0005R	Vorhegg	46	40	40	N	12	58	20	E	1020	Cd, Pb	
	AT0048	Zoebelboden	47	50	19	N	14	26	29	E	899	Cd, Pb	
Belgium	BE0004R	Knokke	51	21	36	N	3	20	0	E	0		Hg
Czech Republic	CZ0001R	Svratouch	49	44	0	N	16	2	0	E	737	Cd, Pb	Cd, Pb, Mn, Ni
	CZ0003R	Košetice	49	35	0	N	15	5	0	E	534	Cd, Pb	Cd, Pb, Mn, Ni
Germany	DE0001R	Westerland	54	55	32	N	8	18	35	E	12	As, Cd, Cu, Fe, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, V, Zn
	DE0002R	Langenbrügge	52	48	8	N	10	45	34	E	74	As, Cd, Cu, Fe, Hg, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, V, Zn
	DE0003R	Schauinsland	47	54	53	N	7	54	31	E	1205	As, Cd, Cu, Fe, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, V, Zn
	DE0007R	Neuglobsow	53	10	0	N	13	2	0	E	65	As, Cd, Cu, Fe, Hg, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, V, Zn
	DE0008R	Schmücke	50	39	0	N	10	46	0	E	937	As, Cu, Fe, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, V, Zn
	DE0009R	Zingst	54	26	0	N	12	44	0	E	1	As, Cd, Cu, Fe, Hg, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, V, Zn
Denmark	DK0003R	Tange	56	21	0	N	9	36	0	E	13	As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Zn	
	DK0008R	Anholt	56	43	0	N	11	31	0	E	40	As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
	DK0011G	Nuuk	64	10	48	N	51	39	0	W	320	Al, As, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn	
	DK0020R	Pedersker	55	1	1	N	14	56	45	E	5		As, Cd, Cr, Cu, Pb, Ni, Zn
	DK0022R	Sepstrup Sande	55	5	0	N	9	36	0	E	60		As, Cd, Cr, Cu, Pb, Ni, Zn
	DK0031R	Ulborg	56	17	0	N	8	26	0	E	10	As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
Estonia	EE0009R	Lahemaa	59	30	0	N	25	54	0	E	32		As, Cd, Cu, Pb, Zn
	EE0011R	Vilsandy	58	23	0	N	21	49	0	E	6		As, Cd, Cu, Pb, Zn
Spain	ES0008R	Niembro	43	26	32	N	4	51	1	W	134	As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
	ES0009R	Campisábalos	41	16	52	N	3	8	34	W	1360	As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
Finland	FI0008R	Kevo	69	45	0	N	27	0	0	E	80		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni
	FI0017R	Virolahti II	60	31	36	N	27	41	10	E	8		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	FI0022R	Oulanka	66	19	13	N	29	24	6	E	310		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	FI0036R	Matarova	68	0	0	N	24	14	23	E	340	As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn	As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	FI0053R	Hailuoto II	65	0	0	N	24	41	39	E	4		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni
	FI0092R	Hietajarvi	63	10	0	N	30	43	0	E	173		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	FI0093R	Kotinen	61	13	48	N	25	4	0	E	158		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	FI0096R	Pallas	67	58	0	N	24	7	0	E	566	Hg	Hg
France	FR0090	Porspoder	48	31	0	N	4	45	0	W	50		As, Cd, Cr, Cu, Pb, Ni, Zn
	GB0006R	Lough Navar	54	26	35	N	7	52	12	W	126		As, Cd, Cr, Cu, Pb, Ni, Zn
	GB0013R	Yarner Wood	50	35	47	N	3	42	47	W	11	As, Cd, Cr, Cu, Pb, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
Great Britain	GB0017R	Heigham Holmes	54	45	14	N	1	38	22	W	267	As, Cd, Cr, Cu, Pb, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn
	GB0091R	Banchory	57	5	0	N	2	32	0	W	120	As, Cd, Cr, Cu, Pb, Ni, Zn	Cd, Cr, Cu, Pb, Ni, Zn

Table 1, cont.

Country	Code	Station name	Latitude				Longitude				hosl	Metals in air	Metals in precipitation
Ireland	IE0001R	Valentina Obs.	51	56	23	N	10	14	40	W	11		Al, As, Cd, Cr, Cu, Pb, Mn, Hg, Ni, V, Zn
Iceland	IS0090R	Reykjavik	64	8	0	N	21	54	0	W	52		Al, As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	IS0091R	Storhofdi	63	24	0	N	20	17	0	W	118	Al, As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, V, Zn	Al, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Zn
Lithuania	LT0015R	Preila	55	21	0	N	21	4	0	E	5	Cd, Cu, Pb, Zn	Cd, Cu, Pb, Zn
Latvia	LV0010R	Rucava	56	13	0	N	21	13	0	E	5	Cd, Cu, Pb, Zn	As, Cd, Cu, Pb, Mn, Ni, Zn
	LV0016R	Zoseni	57	7	59	N	25	55	0	E	183	As, Cd, Cu, Pb, Mn, Ni, Zn	As, Cd, Cu, Pb, Mn, Ni, Zn
Netherlands	NL0009R	Kollumerwaard	53	20	2	N	6	16	38	E	1	As, Cd, Pb, Ni, Zn	As, Cd, Cr, Cu, Pb, Ni, Zn,
	NL0091R	De Zilk	52	18	0	N	4	30	0	E	4		As, Cd, Cr, Cu, Pb, Hg, Ni, Zn
Norway	NO0001R	Birkenes	58	23	0	N	8	15	0	E	190	As, Cd, Cr, Co, Cu, Pb, Hg, Ni, V, Zn	As, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, V, Zn
	NO0039R	Kårvatn	62	47	0	N	8	53	0	E	210		Cd, Pb, Zn
	NO0042G	Zeppelin	78	54	0	N	11	53	0	E	474	As, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, V, Zn	
	NO0047R	Svanvik	69	27	0	N	30	1	59	E	30		As, Cd, Cr, Co, Cu, Pb, Ni, Zn
	NO0055R	Karasjok	69	28	0	N	25	13	0	E	333		Cd, Pb, Zn
	NO0056R	Hurdal	60	22	0	N	11	4	0	E	300		Cd, Pb, Zn
	NO0090R	Andøya (Alomar)	69	16	42	N	16	0	42	E	38	Hg	
Poland	PL0004R	Leba	54	45	0	N	17	32	0	E	2		Cd, Cr, Cu, Pb, Ni, Zn
	PL0005R	Diabla Gora	54	9	0	N	22	4	0	E	157	Hg	As, Cd, Cr, Cu, Pb, Hg, Ni, Zn
Portugal	PT0001R	Braganca	41	48	0	N	6	43	58	W	690		Cd, Cu, Pb, Mn, Ni, Zn
	PT0003R	Viana do Castelo	41	42	0	N	8	48	0	W	16		Cd, Cu, Pb, Mn, Ni, Zn
	PT0004R	Monte Velho	38	5	0	N	8	48	0	W	43		Cd, Cu, Pb, Mn, Ni, Zn
	PT0010R	Angra do Heroismo	38	40	0	N	27	13	0	W	74		Cd, Cu, Pb, Mn, Ni, Zn
	SE0014R	Råö	57	23	0	N	11	53	0	E	10	As, Cd, Pb, Hg, Ni	Hg
	SE0051R	Arup	55	45	0	N	13	40	0	E	157		As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, V, Zn
	SE0097R	Gårdsjön	58	3	0	N	12	1	0	E	126		As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, V, Zn
Slovenia	SI0008R	Iskrba	45	34	0	N	14	52	0	E	520	As, Cd, Cr, Cu, Pb, Ni	
Slovakia	SK0002R	Chopok	48	56	0	N	19	35	0	E	2008	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn
	SK0004R	Stará Lesná	49	9	0	N	20	17	0	E	808	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn
	SK0005R	Liesek	49	22	0	N	19	40	59	E	892	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn
	SK0006R	Starina	49	3	0	N	22	16	0	E	345	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn
	SK0007R	Topolniky	47	57	36	N	17	51	38	E	113	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn	As, Cd, Cr, Cu, Pb, Mn, Ni, Zn

2.2 Monitoring sites for POPs

The locations of the measurement sites, which have delivered POPs for 2004, are shown in Figure 3 and Table 2. In 2004 there were 6 sites measuring POPs in both compartments, and altogether there were 15 measurement sites, an increase of 3 sites (in ES, GB, LV) since the previous year. Spain has however only reported data for December 2004.

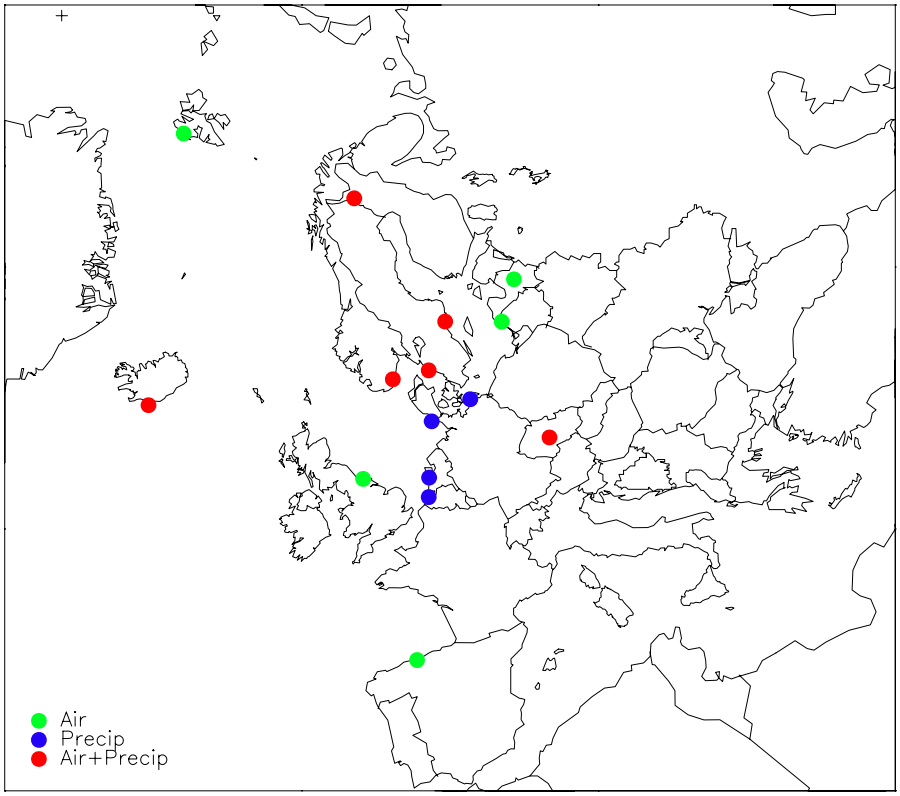

Figure 3: Monitoring network of POPs in EMEP, 2004.

As for heavy metal measurements, the distribution and number of sites measuring POPs are insufficient. However there are some positive tendencies; i.e. Spain, Latvia and Great Britain have started to measure POPs. In addition, CCC will coordinate a passive air sampling campaign in 2006 covering whole of Europe as well as central Asia to evaluate the spatial patterns in air. The results from that campaign will be available next year.

2.3 Sampling and analytical techniques

A brief summary of the sampling and analytical techniques used for the 2004-data are given in Table 4 and Table 3 for POPs and heavy metals respectively.

Table 2: Monitoring stations and their sampling program of POP, 2004.

Country	Code	Name	Latitude				Longitude				hasl	POPs in air and aerosol	POPs in precipitation
Belgium	BE0004R	Knokke	51	21	36	N	3	20	0	E	0		Pesticides, HCHs
Czech rep.	CZ0003R	Košetice	49	35	0	N	15	5	0	E	534	PAHs, PCBs, pesticides, HCHs	PAHs, PCBs, pesticides, HCH
Germany	DE0001R	Westerland	54	55	32	N	8	18	35	E	12		PAHs, PCBs, pesticides, HCB, HCHs
	DE0009R	Zingst	54	26	0	N	12	44	0	E	1		PAHs, PCBs, pesticides, HCB, HCHs
Finland	FI0096R	Pallas	67	58	0	N	24	7	0	E	566	PAHs, PCBs, pesticides, HCHs	PAHs, PCBs, HCHs
Great Britain	GB0014	High Muffles	54	20		N	0	48		W		PAHs, PCBs	
Island	IS0091R	Storhofdi	63	24	0	N	20	17	0	W	118	PCBs, pesticides, HCB, HCHs	PCBs, pesticides, HCB, HCHs
Netherlands	NL0091R	De Zilk	52	18	0	N	4	30	0	E	4		gHCH
Norway	NO0042G	Spitsbergen	78	54	0	N	11	53	0	E	474	PAHs, PCBs, pesticides, HCHs, HCB	
	NO0001R	Birkenes	58	23	0	N	8	15	0	E	190	PCB, HCB, HCHs	PCBs, HCB, HCHs
Sweden	SE0012R	Aspvreten	58	48	0	N	17	23	0	E	20	PAHs, PCBs, pesticides	PAHs, PCBs, HCHs
	SE0014R	Råö	57	23	38	N	11	55	50	E	5	PAHs, PCBs, pesticides	PAHs, PCBs, HCHs

Table 3: Measurement methods for POPs, 2004.

Country	Precipitation		Air and aerosols		Laboratory method
	Sampling method	Frequency	Sampling method	Frequency	
Belgium	Wet only	Monthly			Dual column GC-ECD
Czech rep.	Wet only	Daily	HV-GRASEBY,PUR-foam 300-400 m^3/day	1d a week	HPLC, GC-MS
Germany	Wet only	Monthly			GC-MS
Spain			High vol	14 -20 Dec, daily	GC-MS
Finland	Bulk (precip. + dry dep.)	1 w a month	High vol.	1 w a month	HPLC, GC-MS
Great Britain			High Vol. Whatman GF filter + 2 PUR foams.5m3/h	Biweekly sampling, 3 monthly analysis	GC-MS
Iceland	bulk, (Steel funnel 1m2/PUF foam)	Biweekly	PUF-foam 1000m^3/15days	Biweekly	GC-ECD
Latvia				Monthly	GC-MS
Netherlands	bulk	4 weekly			GC-MS
Norway	bulk, funnel and bottle of glass	Weekly	High Vol. Gelman AE filter + 2 PUR foams. 20m3/h	NO01: 24h a week; NO42: 48h a week	GC-MS
Sweden	Bulk (precip. + dry dep.)	monthly	High vol.	SE14 biweekly; SE12: 1 w a month	HPLC, GC-MS

HPLC: High Performance Liquid Chromatography
GC -MS: Gas Chromatograph with Mass Spectrometry
GC - ECD: Gas Chromatograph with Electron Capture Detector
TLC: Thin Layer Chromatography

Table 4: Measurement methods for heavy metals, 2004.

Country	Precipitation		Air and aerosols		Laboratory method	Participate in EMEP lab. Intercomp.[1]
	Field method	Frequency	Field method	Frequency		
Austria			PM_{10}, $PM_{2.5}$, PM_1 (High-vol)	24h a week	ICP-MS	Yes
Belgium	Wet only	Weekly			CV-AAS	Yes
Hg						
Czech Republic	Bulk	Weekly	Filter-1pack	Every 2nd day	GF-AAS, Zn: F-AAS. Air and aerosols: ICP-MS	Yes
Germany	Wet only	Weekly	Low volume sampler	Weekly	ICP-MS	Yes
Hg	Wet only	Weekly	TGM:gold trap	Daily	CV-AFS	
Denmark	Bulk	Monthly	Filter-3pack	Daily at DK03,08,31, weekly at DK11	Precip.: GF-AAS Aerosols: PIXE	Yes
Hg	Bulk (Hg)	Monthly	Hg-monitor (Tekran)	Hourly		
Estonia	Bulk	Monthly			GF-AAS, Zn: F-AAS	Yes
Spain	Wet only	Weekly	High-vol, PM_{10}	24h a week	GF-AAS	No
Finland	Bulk	Monthly	Teflon, Millipore, Fluoropore, 3 µm, 50 l/min, cut off 15 µm	Weekly	ICP-MS	Yes
Hg	Bulk (Hg)	Monthly	Hg: gold traps (TGM)	2 X 24 h a week	CV-AFS	
			Hg: mini traps (TPM)	Weekly	CV-AFS	
France	Bulk	Monthly			GF-AAS	Yes
Great Britain	Bulk	GB06,17: monthly GB13,91: weekly	PM_{10}, low volume sampler	Weekly	ICP-MS	Yes
Ireland	Bulk				ICP-MS	No
Hg	Bulk	Monthly			ICP-MS	
Iceland	Bulk	Weekly	High vol.	Biweekly	ICP-MS	(Yes)[2]
Hg					CV-AAS	
Lithuania	Bulk	Weekly	Low vol. 0.5-2 m3/h	Weekly	GF-AAS	Yes
Latvia	Bulk	Weekly	Filter-1pack	Weekly	Cd, Cu, Pb, Ni, As: GF-AAS, Mn, Zn: F-AAS	Yes
Netherlands	Wet-only	4 weekly	Low volume sampler	24h every 2 days	ICP-MS	Yes
Hg	Wet-only	Weekly			CV-AFS	
Norway	Bulk	Weekly	NO42: High Vol, 20 l/h, W41	48h a week	ICP-MS	Yes
			NO01: PM_{10} KFG 2.3 l/h, quartz	Weekly		
Hg	Bulk (Hg)	Monthly	Tekran monitor	Continuously	CV-AFS	

Table 4, cont.

Country	Precipitation		Air and aerosols		Laboratory method	Participate in EMEP lab. Intercomp.[1]
	Field method	**Frequency**	**Field method**	**Frequency**		
Poland, PL04	Wet-only	Biveekly			GF-AAS; Zn: F-AAS	Yes
Poland PL05	Wet-only	Weekly			GF-AAS; Zn: F-AAS	Yes
Hg	Bulk (Hg)	Weekly	Hg: gold traps (TGM)	24h a week	AAS-AMAanalyzer	
Portugal	PT10: Wet-only, PT01,03,04: bulk	Weekly Daily			GF-AAS, Zn: F-AAS	No
Sweden	Bulk	Monthly	Low volume sampler, teflon filter	Weekly	ICP-MS	(Yes)[2]
Hg	Bulk (Hg)	Monthly	Hg: gold traps (TGM)	2 X 24 h a week	CV-AFS	
			Hg: mini traps (TPM)	2 X 24 h a week	CV-AFS	
Slovenia			Low volume, PM_{10}, quartz filters	Weekly, from seven daily filters	ICP-MS	No
Slovakia	Wet-only: SK04, SK05, SK06, SK07. Bulk: SK02	Monthly	Filter-1pack, Nitrocellulose filters Sartorius 47mm, 6-24 m^3/day, SPM: SK02, SK07, PM_{10}/Partisol R&P/: SK04, SK05, SK06	Weekly	Precipitation: GF-AAS; Zn: F-AAS, As: MHS; Air: ICP-MS	Yes

[1] Countries participated in the intercomparison in 2004 (Uggerud et al., 2005)
[2] Samples shipped to NILU, Norway for analysis

AAS: Atomic Absorption Spectroscopy
GF-AAS: Graphic Furnace Atomic Absorption Spectroscopy
F-AAS: Furnace Atomic Absorption Spectroscopy
ICP-MS: Inductively Coupled Plasma - Mass Spectrometry
CV-AAS: Cold Vapour Atomic Fluorescence Spectroscopy

3. Presentation of the measurement data

3.1 Heavy metal concentrations over Europe

The annual concentrations of heavy metals in air and precipitation are found in Table 5 and Table 6. Maps illustrating the annual averages of Pb, Cd and Hg from the 2004 precipitation and air data are presented in Figure 4 – Figure 9. An increasing gradient can in general be seen southeast, but the concentration levels are not evenly distributed, there are some "hotspots" for some elements. The yearly mean concentrations in precipitation have been calculated from daily, weekly or monthly reported values as precipitation-weighted averages. When discussing the regional distribution of the concentration fields, it should be noticed that few countries in Southern- and Eastern Europe have reported data for heavy metals in precipitation or in air.

For heavy metal measurements there are two major problems with the data, firstly the detection limit for the method is not always adequate for the respective sampling site, and the data coverage is also in general much poorer than e.g. for main components. In the EMEP data quality objectives (EMEP/CCC, 1996) it says that the data completeness should be 90%; in addition, 75% of the data should be above the detection limit. As seen in Annex 1 and Annex 2, these two criteria are often not met. However, several countries analyse heavy metals in air on one or two samples weekly from daily aerosol samples. This will give poor data completeness, but the seasonal distribution and data coverage is anyhow satisfactory and the estimate of the annual average is probably quite OK.

Most of the Portuguese and Irish heavy metal measurements have in general very high detection limits and these data are regarded as very uncertain. Also other countries like Spain, Latvia, Estonia and Austria experience relatively high concentration levels but a large fraction of the data are undetectable which increases the uncertainty also of some of these measurements. In Norway, Denmark and Sweden the concentration levels are relatively low, and a high percentage of these data in both air and precipitation are also below the detection limits.

3.1.1 Lead in precipitation

Precipitation data from Portugal and Ireland should be looked as upper limits because most of the data are below the detection limits.

The highest concentrations are seen in Slovakia, but elevated levels are also seen in hotspots like e.g. in Lithuania and the Benelux countries. The Lithuanian lead data however are very high in April, May, August, September and October, and one may suspect some local influence or contamination problems. There are also high lead levels in the precipitation in Spain, but the detection limit is too high for these measurements (2 μg/l). The lowest concentrations of Pb during 2004 are found in the Nordic countries and in Great Britain (Figure 4).

3.1.2 Cadmium in precipitation

The lowest cadmium levels are seen in the Nordic countries, Great Britain, and northern France (Figure 5). An increasing gradient can be seen southeast. The highest cadmium concentrations in precipitation are seen in Slovakia, Lithuania

and Spain. For Spain the detection limit for Cd is too high (0.15 ug/) and the concentration level should be looked at as an upper limit. The cadmium precipitation measurements in Portugal are not included in Figure 5 due to very high detection limits (0.85 μg/l).

3.1.3 Mercury in precipitation

Only a few stations are measuring mercury in precipitation in Europe, and most of them are related to the OSPARCOM programme. Belgium, Irish and Polish stations have too high detection limits and these measurements are not really useful for EMEP. The concentrations of mercury at the different sites are decreasing from north to south, but these differences are quite small.

3.1.4 Lead in aerosols

Figure 7 presents the annual averages of Pb in air in 2004. The lowest concentrations (below 1 ng Pb/m^3) can be seen in the arctic sites (NO42, FI36, DK11). Concentration maxima are seen in Slovakia with concentrations between around 12 ng Pb/m^3. There are also sites in Austria, Germany and the Czech republic with high concentrations.

3.1.5 Cadmium in aerosols

Cadmium in aerosols is presented in Figure 8. The lowest concentrations (below 0.05 ng Cd/m^3) are reported from the Nordic countries and Great Britain. There are also relatively low concentrations in central Europe (Germany) and in Spain. An increasing gradient can be seen south-eastward. The highest cadmium concentrations are observed in Slovakia, as well as in Austria and the Czech Republic.

3.1.6 Mercury in air

Concentrations of mercury in air are in the range 1.4–1.9 ng/m^3 for all the stations (Figure 9), highest levels are seen in Germany. PL05 is not included in the figure due to unrealistic large variability in the data, 0.045 – 7.7 ng/m^3 As for mercury in precipitation, there are only a few stations delivering data on mercury in air, and they are mainly related to the AMAP and the OSPAR programme.

Table 5: Annual average concentration of heavy metals in precipitation in 2004 (μg/l). Data in Italic are considered very uncertain.

Code	Pb	Cd	Zn	Hg	Ni	As	Cu	Co	Cr	Mn	V	Fe	mm
BE0004R	-	-	-	*36.76*	-	-	-	-	-	-	-	-	797
CZ0001R	1.08	0.082	-	-	1.19	-	-	-	-	5.08	-	-	866
CZ0003R	1.61	0.098	-	-	1.26	-	-	-	-	4.34	-	-	647
DE0001R	0.79	0.024	5.3	8.14	0.30	0.10	0.52	0.02	0.12	1.40	0.55	18	712
DE0002R	1.51	0.039	6.1	11.78	0.34	0.13	1.17	0.03	0.13	2.51	0.48	33	625
DE0003R	0.95	0.022	4.8	-	0.19	0.06	1.04	0.02	0.08	1.49	0.27	19	1418
DE0007R	1.15	0.038	6.6	12.16	0.28	0.12	1.09	0.03	0.09	2.74	0.36	23	533
DE0008R	1.32	0.032	5.9	-	0.28	0.08	0.89	0.02	0.11	1.44	0.33	17	1264
DE0009R	1.23	0.041	8.2	10.83	0.35	0.12	2.78	0.02	0.12	2.23	0.60	25	587
DK0008R	1.32	0.050	18.1	-	0.48	0.23	1.63	-	0.18	-	-	-	596
DK0020R	1.38	0.183	16.7	-	0.50	0.13	2.86	-	0.15	-	-	-	473
DK0022R	0.98	0.026	5.4	-	0.25	0.11	0.71	-	0.11	-	-	-	985
DK0031R	0.70	0.033	7.8	-	0.43	0.10	3.72	-	0.10	-	-	-	1014
EE0009R	1.22	0.034	7.1	-	-	0.29	12.28	-	-	-	-	-	769
EE0011R	0.87	0.067	10.3	-	-	0.36	15.63	-	-	-	-	-	634
ES0008R	*3.54*	*0.158*	136.0	-	50.71	*0.75*	21.81	-	30.05	-	-	-	1105
ES0009R	*5.17*	*0.219*	-	-	17.00	-	12.55	-	11.21	-	-	-	395
FI0008R	0.60	0.026	-	-	0.62	0.09	1.32	-	0.26	1.98	-	18	299
FI0017R	1.35	0.058	4.6	-	0.46	0.14	1.01	-	0.63	2.67	0.54	38	578
FI0022R	0.52	0.025	1.8	-	0.27	0.08	0.74	-	0.34	1.32	0.19	13	497
FI0036R	0.58	0.024	3.0	-	0.26	0.07	0.76	-	0.12	1.23	0.15	11	741
FI0053R	0.71	0.032	-	-	0.32	0.07	0.94	-	0.29	2.01	-	32	453
FI0092R	0.79	0.036	2.2	-	0.18	0.06	0.59	-	0.18	1.27	0.22	14	828
FI0093R	0.70	0.030	3.3	-	0.18	0.08	0.63	-	0.20	1.47	0.30	16	776
FI0096G	-	-	-	6.26	-	-	-	-	-	-	-	-	369
FR0090R	0.57	0.022	2.0	-	0.55	0.28	1.44	-	0.17	-	-	-	1059
GB0006R	0.29	0.012	2.4	-	0.06	0.24	0.43	-	0.11	-	-	-	1639
GB0013R	0.65	0.026	5.1	-	0.24	0.09	0.50	-	0.07	-	-	-	1288
GB0017R	1.60	0.041	6.0	-	0.27	0.14	1.13	-	0.08	-	-	-	735
GB0091R	1.13	0.028	5.8	-	0.33	-	0.49	-	0.10	-	-	-	811
IE0001R	*1.27*	0.063	31.8	*50.00*	2.45	0.50	8.74	-	0.55	8.68	0.50	-	1367
IS0090R	0.39	0.009	7.2	-	0.55	0.18	1.61	-	0.24	2.75	1.29	119	971
IS0091R	0.38	0.011	11.9	-	0.33	-	1.37	-	0.34	3.88	-	259	1607
LT0015R	*12.78*	0.207	135.9	-	-	-	1.71	-	-	-	-	-	655
LV0010R	1.44	0.104	23.9	-	1.65	0.37	1.62	-	-	5.90	-	-	649
LV0016R	1.02	0.066	16.4	-	1.35	0.30	1.30	-	-	5.84	-	-	724
NL0009R	1.23	0.045	4.7	-	0.24	0.13	1.03	-	0.26	-	-	-	762
NL0091R	2.32	0.029	5.6	15.16	0.31	0.08	1.80	-	0.26	-	-	-	685
NO0001R	1.30	0.040	4.1	9.85	0.21	0.12	0.35	0.01	0.11	-	0.61	-	1709
NO0039R	0.13	0.005	1.2	-	-	-	-	-	-	-	-	-	1775
NO0047R*	1.32	0.084	6.5	-	36.93	0.91	31.02	0.95	0.39	-	-	-	367
NO0055R	0.74	0.014	4.0	-	-	-	-	-	-	-	-	-	312
NO0056R	0.89	0.041	10.0	-	-	-	-	-	-	-	-	-	904
PL0004R	*0.96*	*0.036*	4.7	-	0.19	-	0.80	-	0.09	-	-	-	826
PL0005R	*1.33*	*0.111*	5.1	*271.00*	1.23	0.23	1.79	-	0.09	-	-	-	717
PT0001R	3.85	0.425	17.0	-	0.81	-	1.47	-	-	4.65	-	-	456
PT0003R	1.77	0.426	9.1	-	1.30	-	7.79	-	-	1.50	-	-	2233
PT0004R	3.09	0.425	7.7	-	1.26	-	0.56	-	-	1.62	-	-	357
SE0014R	-	-	-	14.65	-	-	-	-	-	-	-	-	554
SE0051R	1.32	0.046	6.6	-	0.30	0.13	0.91	-	0.05	5.10	0.62	-	549
SE0097R	0.91	0.032	4.3	-	0.32	0.08	0.57	0.01	0.14	1.22	0.65	-	1091
SK0002R	2.57	0.520	-	-	0.54	0.28	1.76	-	0.21	-	-	-	1077
SK0004R	2.59	0.216	-	-	0.15	0.29	1.55	-	0.04	-	-	-	786
SK0005R	2.39	0.121	-	-	0.28	0.34	1.56	-	0.08	-	-	-	802
SK0006R	3.07	0.166	-	-	0.08	0.38	1.64	-	0.05	-	-	-	922
SK0007R	1.31	0.059	-	-	0.13	0.23	0.51	-	0.03	-	-	-	529

* NO47 is not an EMEP site and is very influenced by emission in Nikel, Russia.

Table 6: Annual average concentration of heavy metals in air in 2004 (ng/m^3).

Code	Pb	Cd	Zn	Hg(g)	Ni	As	Cu	Co	Cr	Mn	V	Fe
AT0002R	8.24	0.229	-	-	-	-	-	-	-	-	-	-
AT0005R	3.61	0.125	-	-	-	-	-	-	-	-	-	-
AT0048R	2.67	0.087	-	-	-	-	-	-	-	-	-	-
CZ0001R	8.56	0.255	-	-	-	-	-	-	-	-	-	-
CZ0003R	6.54	0.225	-	-	-	-	-	-	-	-	-	-
DE0001R	3.82	0.079	-	-	1.35	-	1.65	-	-	1.77	3.25	6
DE0002R	7.89	0.159	10.7	1.95	1.00	0.48	2.47	-	-	3.98	1.15	12
DE0003R	2.40	0.053	-	-	0.54	-	1.24	-	-	1.70	0.56	8
DE0007R	7.69	0.212	17.2	1.78	0.92	0.69	2.61	-	-	3.43	1.58	7
DE0008R	4.04	-	-	-	0.94	-	2.01	-	-	2.47	0.71	7
DE0009R	5.38	0.197	15.4	1.65	1.57	-	1.42	-	-	2.47	4.40	6
DK0003R	4.61	0.154	16.6	-	1.13	0.64	1.54	-	0.49	3.81	-	10
DK0008R	3.91	0.120	9.5	-	1.87	0.33	1.03	-	0.21	1.92	-	5
DK0011G	0.25	-	1.1	1.38	0.09	0.02	0.20	-	0.06	0.31	-	1
DK0031R	3.03	0.098	8.1	-	0.96	0.26	0.80	-	0.19	1.79	-	5
ES0008R	7.04	0.091	-	-	-	-	21.70	-	-	-	-	-
ES0009R	1.68	0.046	-	-	-	-	39.82	-	-	-	-	-
FI0036R	0.86	0.034	3.0	-	0.36	0.12	0.32	-	0.09	0.66	0.42	2
FI0096G	-	-	-	1.40	-	-	-	-	-	-	-	-
GB0013R	4.43	0.075	14.2	-	1.51	0.56	1.96	-	1.20	-	-	-
GB0091R	2.44	0.046	14.3	-	0.72	0.28	1.14	-	1.05	-	-	-
IS0091R	0.92	0.118	20.6	-	6.89	0.19	1.11	-	10.88	10.35	2.65	72
LT0015R	5.86	0.191	15.1	-	-	-	1.61	-	-	-	-	-
LV0010R	4.44	0.171	21.2	-	0.81	-	0.82	-	-	4.55	-	-
LV0016R	2.69	0.133	11.0	-	0.74	0.29	0.78	-	-	9.41	-	-
NL0009R	6.27	0.146	18.5	-	1.68	0.48	-	-	-	-	-	-
NO0001R	1.63	0.045	3.9	1.70	0.59	0.21	0.84	0.002	0.29	-	0.72	-
NO0042G	0.63	0.018	4.1	1.50	0.10	0.07	0.31	0.004	0.11	0.40	0.08	-
NO0090R	-	-	-	1.66	-	-	-	-	-	-	-	-
PL0005R	-	-	-	1.80	-	-	-	-	-	-	-	-
SE0014R	3.81	0.114	-	1.62	1.80	0.53	-	-	-	-	-	-
SK0002R	2.37	0.073	5.1	-	0.60	0.19	0.41	-	1.05	1.47	-	-
SK0004R	8.48	0.247	16.5	-	0.80	0.66	1.69	-	1.38	4.01	-	-
SK0005R	11.76	0.413	31.0	-	0.72	1.94	2.06	-	0.60	20.21	-	-
SK0006R	12.80	0.512	17.7	-	0.71	0.60	1.73	-	0.62	3.86	-	-
SK0007R	11.93	0.292	17.3	-	1.12	0.98	2.99	-	1.23	6.49	-	-

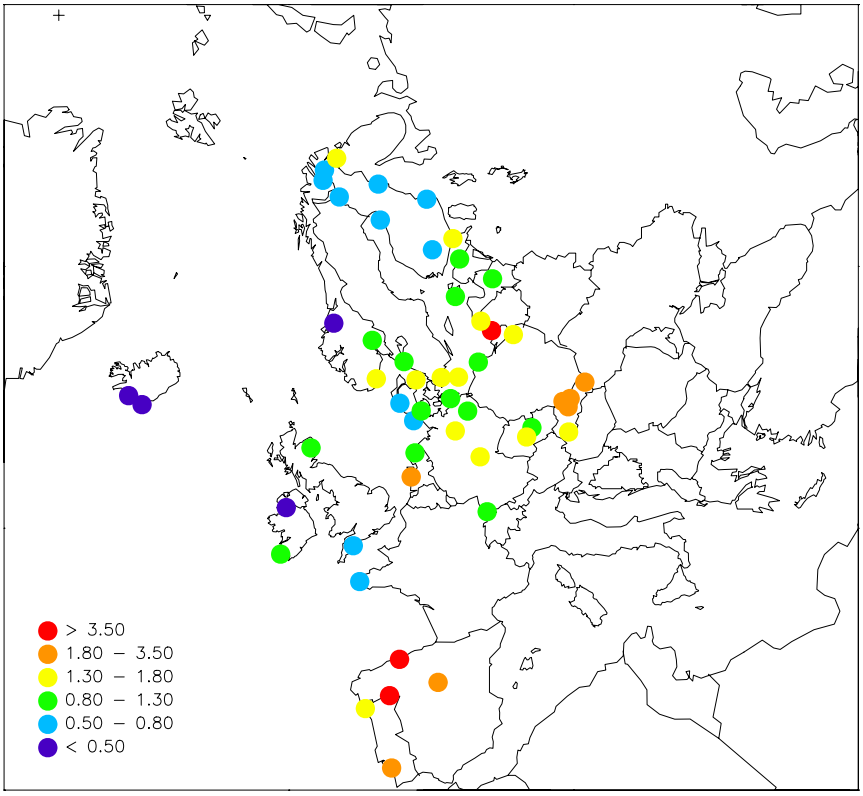

Figure 4: Lead in precipitation, 2004 (µg/l).

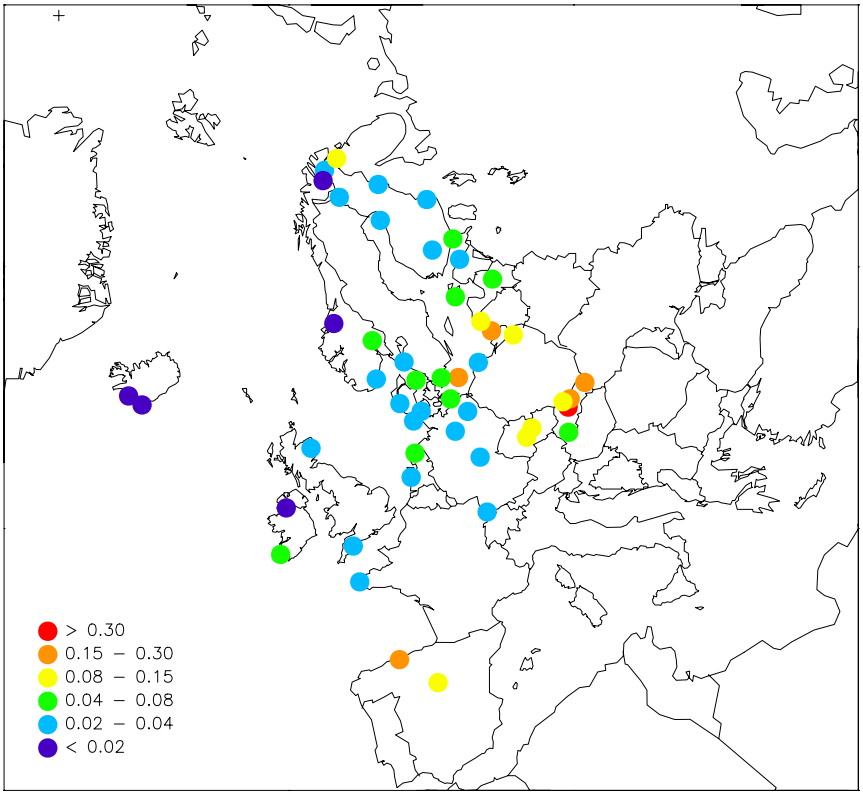

Figure 5: Cadmium in precipitation, 2004 (µg/l).

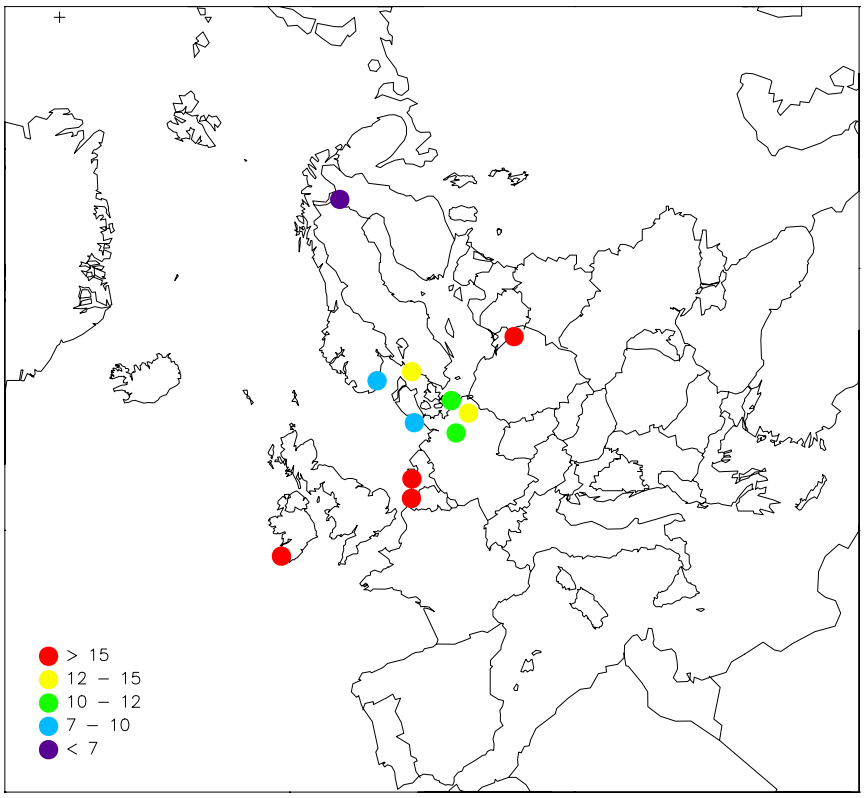

Figure 6: Mercury in precipitation, 2004 (ng/l).

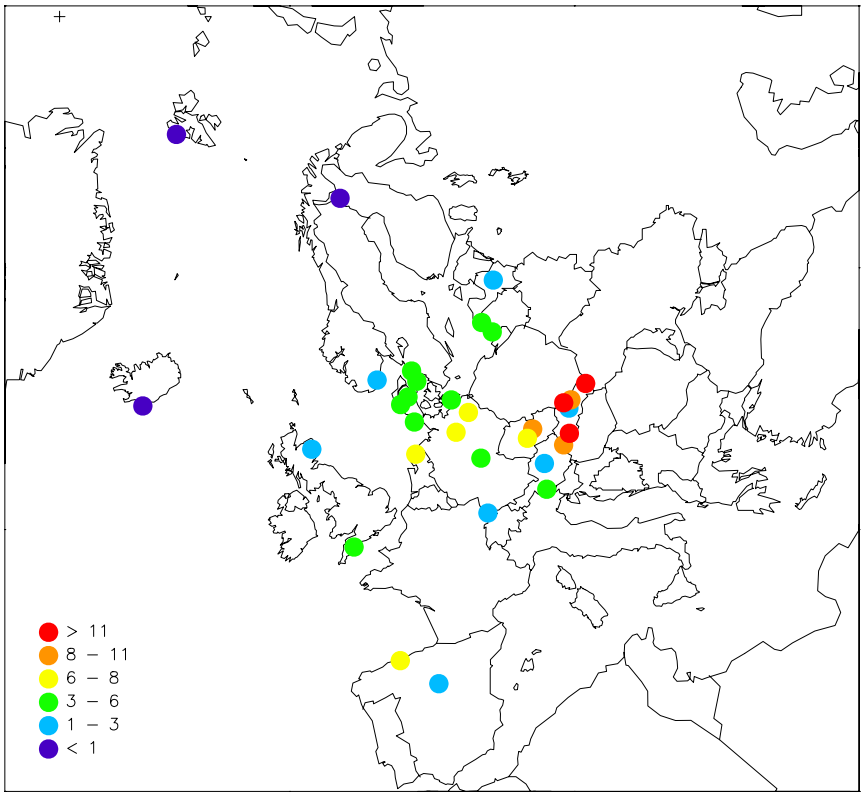

Figure 7: Lead in aerosols, 2004 (ng/m³).

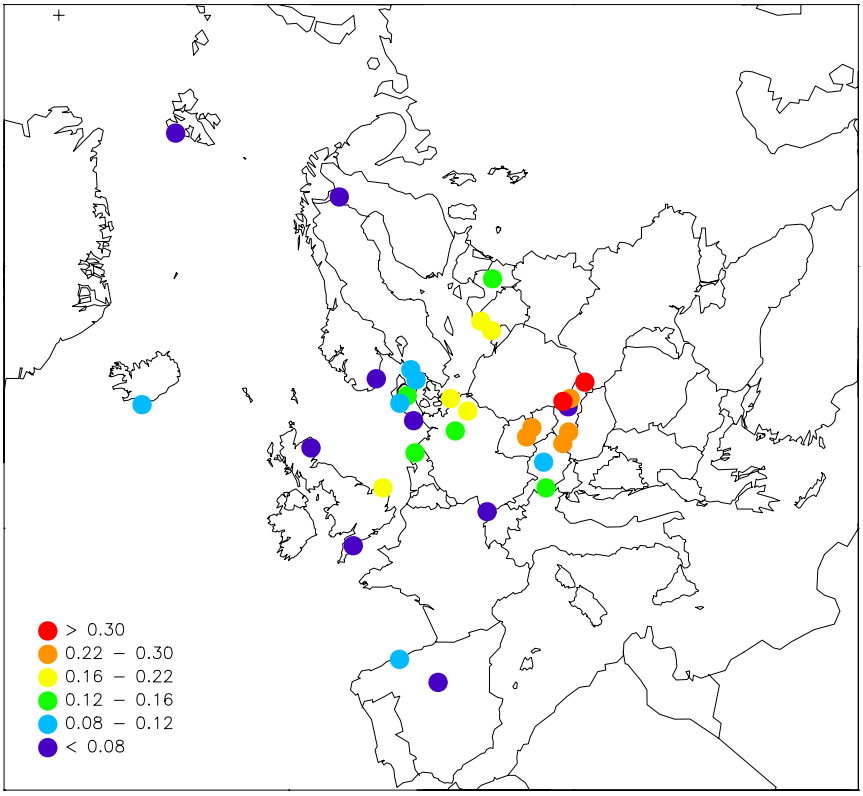

Figure 8: Cadmium in aerosols, 2004 (ng/m³).

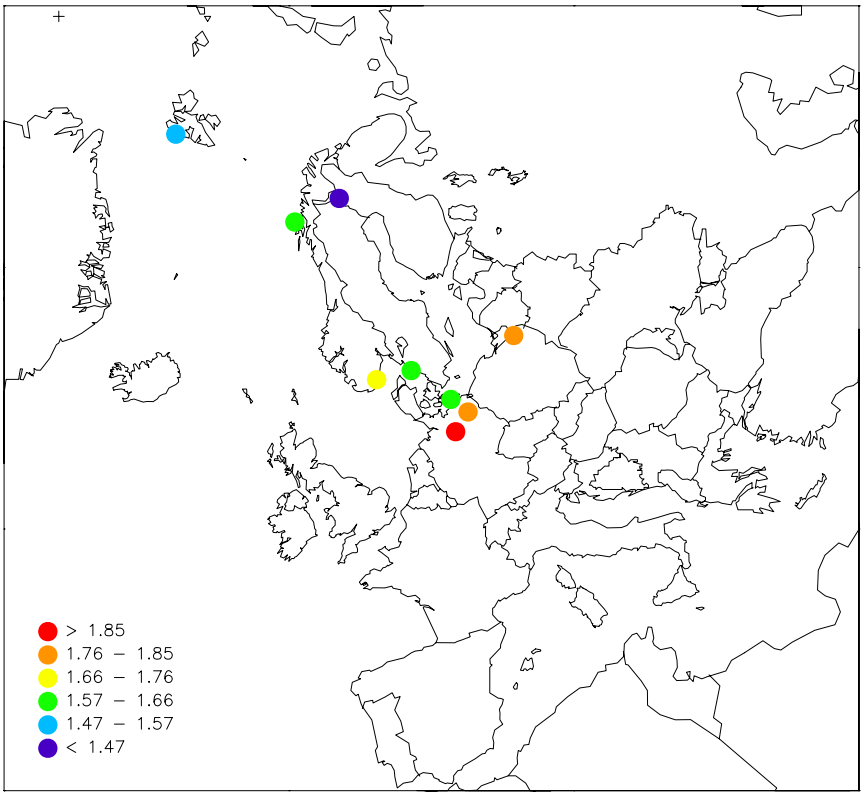

Figure 9: Mercury in air, 2004 (ng/m³).

3.2 Concentrations of POPs

It is generally difficult to give full credit to the information content in the POP data. Different sampling and analysis techniques make it difficult to compare data, especially for precipitation. For example, SE02, SE12 and FI96 have a precipitation sampler with 1 m^2 collection area and these results are given as deposition rates, ng/m^2 day. The rationale is that this includes both wet deposition and some dry deposition on the exposed collector surface. To compare the spatial pattern in Europe, air concentrations are used. High detection limit can also be a problem. Much of the data from Ireland and Belgium, and to some extent from Iceland, are mainly below the detection limits and here one can only say something about the upper concentration limits. Germany has two dataset for precipitation. One set with precipitation measurements only, and one that includes rinsing solution from the wet-only funnel. This latter will then include particle bound POPs in precipitation that is retained on the funnel surface. Both datasets are given in Annex 3, otherwise only the precipitation measurements are given.

In Figure 10–Figure 21 it is shown maps with annual averaged air concentrations of some of the main PAH, PCBs and pesticides. In general the concentrations decrease from south to north, except for α-HCH where the highest concentration is seen in Svalbard. The concentration in the Czech Republic is much higher than those observed in the Nordic countries for all the different POPs. For PCB it is explained by the high historical usage of in central Europe (Breivik et al., 2002). It is also known that PCBs were produced in former Czechoslovakia in significant amounts until 1984 (Taniyasu et al., 2003). Large differences in atmospheric PCB levels across Europe were also noted by Jaward et al. (2004). They carried out a campaign during the summer of 2002, deploying 71 passive air samplers throughout Europe, and found that the atmospheric levels of PCBs were found to vary by as much as two orders of magnitude. Elevated levels were found in urban areas, suggesting that densely populated regions tend to be key contemporary source regions of PCBs to the atmosphere.

The presence of HCH in environments far away from the sources is due to long-range atmospheric transport. The relatively high concentrations of α-HCH measured at higher latitudes have also been observed in seawater. Preferential deposition and accumulation in polar latitudes of α-HCH are expected according to the hypothesis of global fractionation and cold condensation (Wania and Mackay, 1996). Iceland is influenced by westerly air masses, which may explain the lower concentrations seen at IS0091.

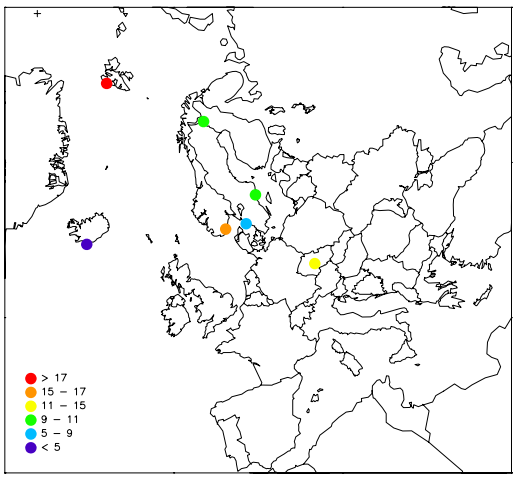

Figure 10: α-HCH in air, 2004 (pg/m^3).

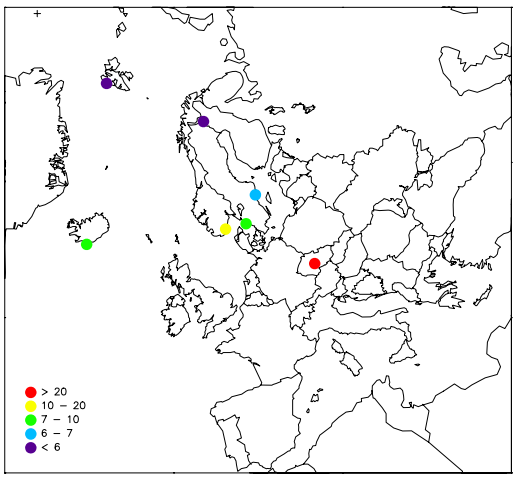

Figure 11: γ– HCH in air, 2004 (pg/m^3).

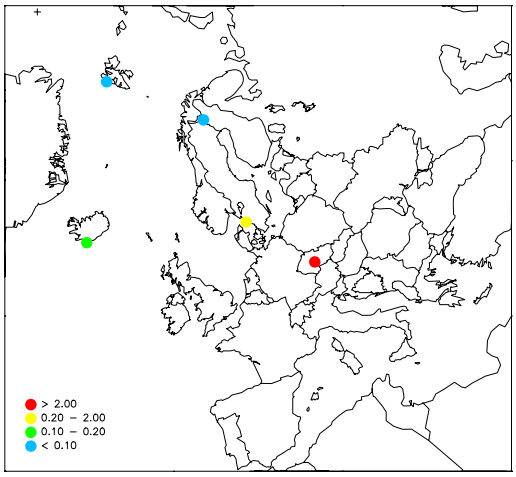

Figure 12: pp-DDD in air, 2004 (pg/m^3).

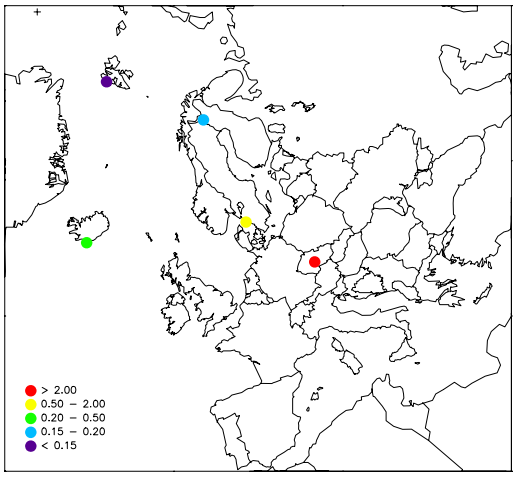

Figure 13: pp-DDT in air, 2004 (pg/m^3).

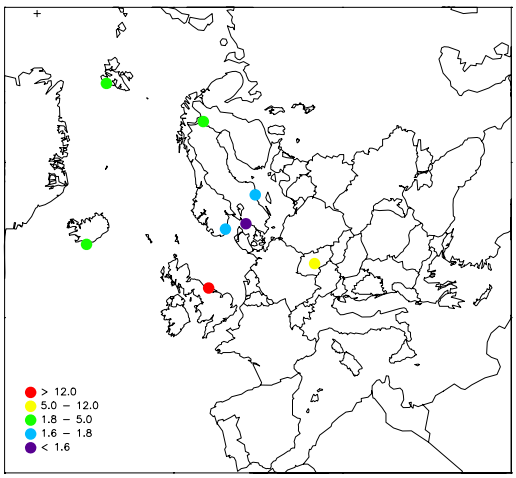

Figure 14: PCB-28 in air, 2004 (pg/m^3).

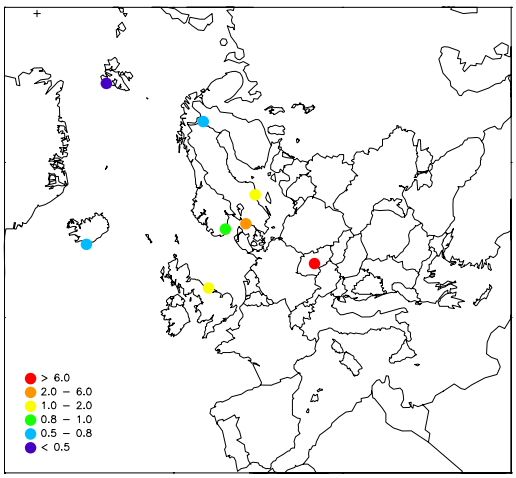

Figure 15: PCB-101 in air, 2004 (pg/m^3).

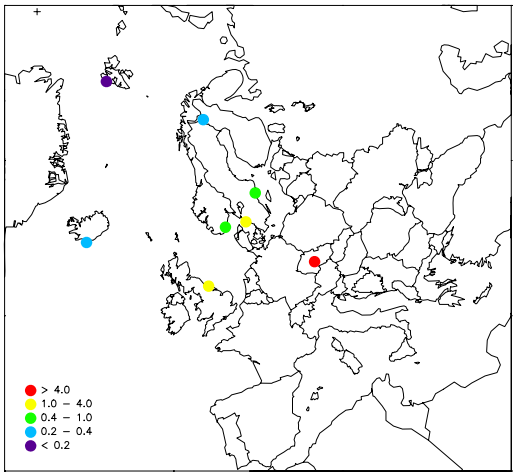

Figure 16: PCB-153 in air, 2004 (pg/m^3).

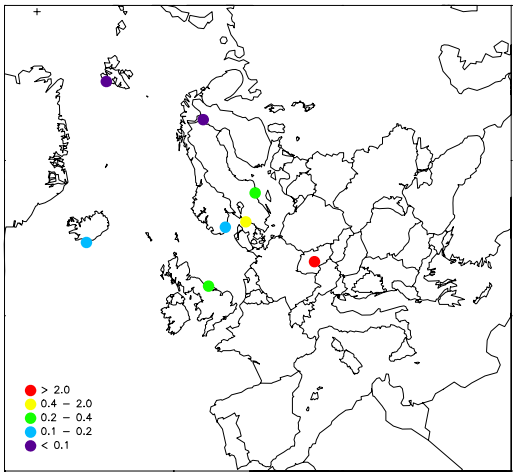

Figure 17: PCB-180 in air, 2004 (pg/m^3).

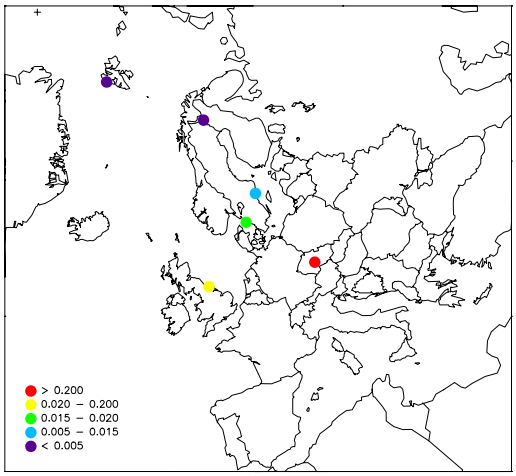

Figure 18: Anthracene in air, 2004 (pg/m^3).

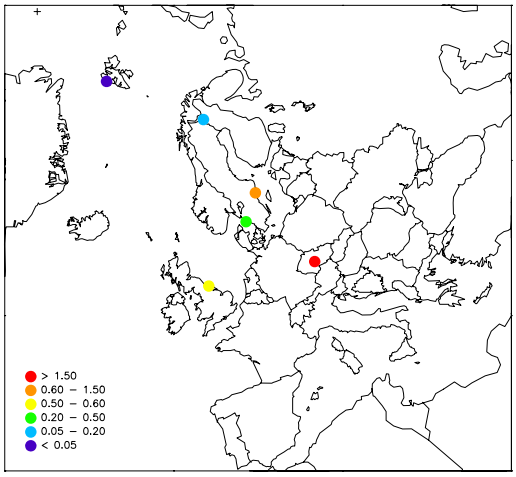

Figure 19: Fluoranthene in air, 2004 (pg/m^3).

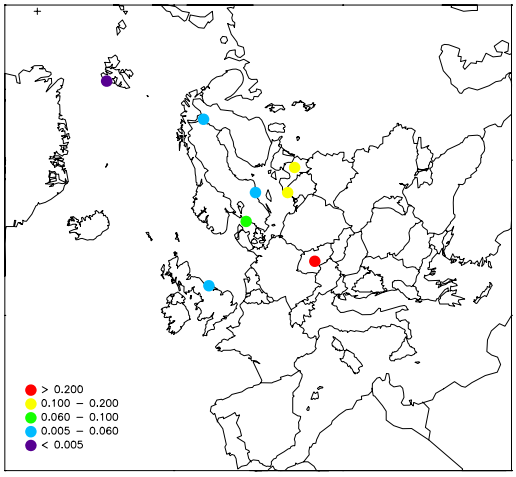

Figure 20: Benzo-a-pyrene (BaP) in air, 2004 (ng/m^3).

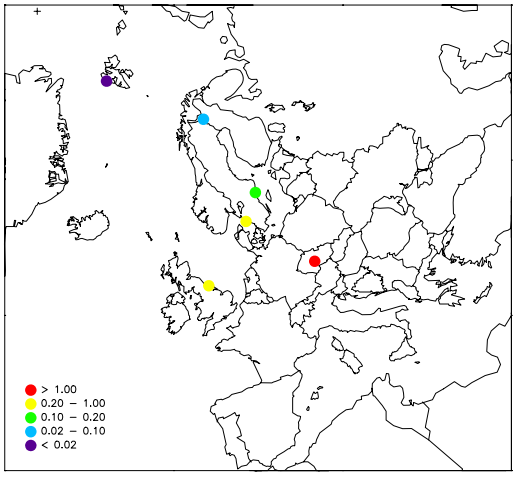

Figure 21: Pyrene in air, 2004 (ng/m^3).

3.3 Annual summaries

Annual summaries of heavy metals in precipitation and air are given in Annex 1 and Annex 2, respectively. Annual summaries for POP data are seen in Annex 3 and Annex 4. The precipitation component summaries contain:

- the precipitation weighted arithmetic mean value,
- the minimum and maximum daily concentrations,
- the number of data below the detection limit,
- the number of samples for a specified component

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.

For air components the arithmetic mean and the geometric mean have been computed together with their standard deviations. The definitions are given on the next three pages. The geometric standard deviation is a dimensionless factor. As a measure of the completeness of the dataset, the number of samples analysed in the period has been printed.

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

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

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

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

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.

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

$$\overline{c_a} = \frac{1}{N} \sum_i c_i$$

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

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

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

$$\overline{lnc} = \frac{1}{N} \cdot \sum_i lnc_i$$

$$\overline{c_g} = exp\left(\overline{lnc}\right)$$

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

$$sd_g = exp\,(sdlnc)$$

Min — is the minimum value reported for a specific component, and it is printed both for precipitation and air components. Some countries report negative values and even though these are not "real" values, it is statistically correct to include these.

5%, 50%, 95% — is the 5, 50 and 95 percentile, defined as above and computed for air data only.

Max — is the maximum value reported for a specific component, and it is given for precipitation and air components.

Num bel — is the number of data below the detection limit (not used for precipitation amount).

Num samples — is the number of samples for a specific component.

The units used for the results in this report are given in Table 7.

Table 7: Units used for the measured components.

Components	Units for W. mean, Min Max	Units for depositions
Amount precipitation	mm	mm
Heavy metals in precipitation	μg/l	μg/m^2
Mercury in precipitation	ng/l	ng/m^2
Heavy metals in air	ng/m^3	
Mercury in air	ng/m^3	
POPs in precipitation	ng/l	ng/m^2
PAHs in air	ng/m^3	
Pesticides, HCB and PCBs in air	pg/m^3	

3.4 Monthly summaries

Monthly averages of heavy metals are given in Annexes 5-8. The monthly mean values of precipitation data are precipitation weighted arithmetic averages. Average air concentrations are arithmetic averages of the reported values.

Data, which do not have monthly resolution, but have parts of the sample in one month and parts in the following, have estimated monthly means. The precipitation data have been treated like this: If e.g. a weekly sample has 5 days in one month and 2 days in the next, 5/7 parts of the precipitation will be assigned to the first month and 2/7 parts to the next month, while the concentrations are

assumed to be equal. The precipitation weighted monthly averages are then calculated as the estimated monthly deposition divided by the monthly precipitation amount.

For air samples starting and ending in different months weighted averages are calculated in a similar way. All values are multiplied with the number of days within a given month. The average is obtained by dividing the sum of these values with the number of days with measurements in that month.

3.5 Update

The data compiled in this report represent the best data available at present. If any further errors are detected, the data will be corrected in the database. It is important that the users make certain that they have access to the most recent version of the database. For the data presented here the latest alteration is 1 June 2004. Scientific use of the EMEP data should be based on fresh copies of the data. Copies can be requested from the CCC (e-mail: wenche.aas@nilu.no or annehj@nilu.no). The newest updates will be downloadable from EMEP's homepage as well, http://www.nilu.no/projects/ccc/emepdata.html. Information about the EMEP measurement network can be found at CCC's internet pages at http://www.nilu.no/projects/ccc/index.html.

4. Conclusions and recommendations

The lowest concentrations of Pb and Cd are generally observed in northern Scandinavia, Greenland, Iceland, and the westernmost part of Europe. Increasing gradients can be seen south and eastward.

There is a general need for more measurement sites with high quality data. Few stations in central parts of Europe, the Mediterranean region and the most eastern part of Europe have reported data for heavy metals in precipitation. The site density is also low for heavy metals in air in Scandinavia, the Mediterranean region and Eastern Europe. Data for POPs have been reported only from countries around the North and Baltic Seas, in the Arctic and from the Czech Republic.

It is important that all the countries deliver data on schedule every year so they can be included in the data report. Data delivered after the deadline will be included in the database only, which reduce the availability of the data. CCC will still appreciate receiving old data for the database. These data will be quality checked and transferred to the database in the same way as newer data. It is important that the participants give information on sampling, analytical methods and quality control.

5. Acknowledgements

A large number of anonymous co-workers in participating countries have been involved in this work. A list of participating institutes, which have provided data for 2004, can be seen below. The staff at CCC wishes to express their gratitude and appreciation for continued good co-operation and efforts. The email address to the data reporter/contact persons can be accessed by contacting CCC.

Country	Institute	Data reporter
Austria	Umweltbundesamt, Wien	Marina Fröhlich
Belgium	Flemish Environmental Agency	Jasmine Dumollin
Czech Republic	Czech Hydrometeorological Institute	Jaroslav Pekarek
Denmark	National Environmental Research Institute	Kåre Kemp
Estonia	Estonian Environmental Research Centre	Toivo Truuts
Finland	Finnish Meteorological Institute	Sirkka Leppanen
Germany	Umweltbundesamt, Berlin	Elke Bieber
Iceland	The Icelandic Meteorological Office	Johanna Thorlacius
Ireland	Environmental Protection Agency (EPA)	Ciaran O'Donnell
Latvia	Latvian Hydrometeorological Agency	Iraida Lyulko
Lithuania	Institute of Physics	Darius Valiulis
Netherlands	National Institute for Public Health and Environmental Protection (RIVM)	Arien Stolk
Norway	Norwegian Institute for Air Research (NILU)	Marit Vadset/Stein Manø
Poland	Institute of Meteorology and Water Management	Gabriela Przybylska
	PL05: Institute of Environmental Protection	Anna Degorska
Portugal	Ministerio do Ambiente, Instituto de Meteorologia	Amelia Lopez
Slovakia	Slovakian Hydrometereological Institute	Marta Mitosinkova
Slovenia	Environmental Agency of the Republic of Slovenia	Tanja Bolte
Spain	Dirección General de Calidad y Evaluacíon Ambiental	Alberto Gonzalez Ortiz
Sweden	Swedish Water and Air Pollution Research Institute (IVL)	Karin Sjöberg
United Kingdom	AEA Technology and CEH	Peter Coleman and Alan Mc Donald

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Annex 1

Annual statistics for heavy metals in precipitation

BE0004R Knokke Belgium

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Hg	36.76	5.00	170.00	29313.7	100.0	4	12
Precip	-	31.8	136.2	797.5	94.0	0	12

CZ0001R Svratouch Czech Republic

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.08	0.01	0.86	70.9	100.0	4	51
Mn	5.08	0.21	81.90	4401.6	100.0	3	51
Ni	1.19	0.50	20.90	1028.4	100.0	31	51
Pb	1.08	0.26	10.50	937.8	100.0	24	51
Precip	-	0.1	75.4	865.6	100.0	0	53

CZ0003R Košetice Czech Republic

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.10	0.02	0.99	63.7	98.1	0	47
Mn	4.34	0.21	41.50	2809.7	98.1	3	47
Ni	1.26	0.50	18.80	818.4	98.1	29	47
Pb	1.61	0.26	7.60	1041.1	98.1	10	47
Precip	-	0.0	59.6	647.4	100.0	4	53

DE0001R Westerland Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.10	0.03	0.52	71.6	99.4	0	45
Cd	0.02	0.00	0.12	16.8	99.4	0	45
Co	0.02	0.01	0.12	13.2	99.4	0	45
Cr	0.12	0.05	0.41	87.3	96.4	0	44
Cu	0.52	0.03	3.92	372.8	97.1	0	44
Fe	18.23	2.90	108.80	12976.9	99.4	0	45
Hg	8.14	3.20	34.60	5608.8	100.0	0	48
Mn	1.40	0.28	13.22	999.3	99.4	0	45
Ni	0.30	0.09	1.10	215.6	99.4	0	45
Pb	0.79	0.12	4.50	559.8	99.4	0	45
Precip	-	0.0	41.1	711.9	100.0	4	53
V	0.55	0.18	2.40	389.0	99.4	0	45
Zn	5.32	1.50	33.10	3789.5	97.1	0	44

DE0002R Langenbrugge Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.13	0.04	0.44	79.1	98.4	0	43
Cd	0.04	0.02	0.12	24.4	98.4	0	43
Co	0.03	0.01	0.10	18.0	98.4	0	43
Cr	0.13	0.04	0.37	83.4	98.4	0	43
Cu	1.17	0.21	3.27	731.1	98.4	0	43
Fe	32.58	5.00	149.20	20370.2	98.4	0	43
Hg	11.78	4.00	31.80	7317.6	99.7	0	49
Mn	2.51	0.43	8.54	1570.4	98.4	0	43
Ni	0.34	0.14	0.92	215.7	98.4	0	43
Pb	1.51	0.34	6.19	941.5	98.4	0	43
Precip	-	0.0	53.0	625.2	100.0	3	53
V	0.48	0.16	1.41	297.9	98.4	0	43
Zn	6.14	2.70	20.70	3839.2	98.4	0	43

DE0003R Schauinsland Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.06	0.00	0.24	85.1	90.7	0	45
Cd	0.02	0.00	0.09	31.0	90.7	0	45
Co	0.02	0.00	0.29	32.5	90.7	0	45
Cr	0.08	0.04	0.34	118.5	90.7	0	45
Cu	1.04	0.18	4.75	1469.7	85.8	0	44
Fe	18.69	3.60	122.90	26510.2	90.7	0	45
Mn	1.49	0.19	8.15	2115.5	90.7	0	45
Ni	0.19	0.04	0.81	266.0	90.7	0	45
Pb	0.95	0.16	5.34	1344.9	90.7	0	45
Precip	-	0.0	135.3	1418.3	100.0	4	53
V	0.27	0.03	1.00	389.1	90.7	0	45
Zn	4.78	1.80	17.00	6774.8	90.7	0	45

DE0007R Neuglobsow Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.12	0.03	0.42	63.6	76.1	0	36
Cd	0.04	0.01	0.12	20.0	74.8	0	35
Co	0.03	0.01	0.17	14.2	76.1	0	36
Cr	0.09	0.04	0.35	48.4	76.1	0	36
Cu	1.09	0.27	3.37	582.8	76.1	0	36
Fe	22.80	5.30	136.40	12151.1	76.1	0	36
Hg	12.16	4.40	24.50	6480.4	74.0	0	34
Mn	2.74	0.50	13.30	1461.9	75.1	0	35
Ni	0.28	0.10	1.34	151.9	76.1	0	36
Pb	1.15	0.23	3.88	614.2	76.1	0	36
Precip	-	0.0	39.3	533.0	100.0	5	53
V	0.36	0.13	1.00	193.9	76.1	0	36
Zn	6.62	3.30	19.10	3529.5	76.1	0	36

DE0008R Schmucke Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.08	0.03	0.97	106.3	99.7	0	44
Cd	0.03	0.01	0.23	40.1	99.7	0	44
Co	0.02	0.01	0.18	25.9	97.2	0	42
Cr	0.11	0.04	0.35	137.8	99.7	0	44
Cu	0.89	0.13	2.93	1122.4	99.7	0	44
Fe	16.65	5.10	80.80	21056.6	99.7	0	44
Mn	1.44	0.30	6.85	1821.2	99.7	0	44
Ni	0.28	0.11	1.07	353.6	99.7	0	44
Pb	1.32	0.33	5.73	1668.4	99.7	0	44
Precip	-	0.0	139.6	1264.4	100.0	4	53
V	0.33	0.09	1.80	412.1	99.7	0	44
Zn	5.88	1.60	26.00	7435.3	99.7	0	44

DE0009R Zingst Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.12	0.04	0.72	68.2	99.9	0	49
Cd	0.04	0.01	0.27	24.0	99.9	0	49
Co	0.02	0.01	0.13	14.3	99.9	0	49
Cr	0.12	0.04	0.70	70.3	99.9	0	49
Cu	2.78	0.55	19.28	1631.1	99.3	0	48
Fe	24.65	6.00	125.00	14476.6	99.9	0	49
Hg	10.83	4.00	55.80	5870.5	100.0	0	49
Mn	2.23	0.47	15.30	1307.7	99.9	0	49
Ni	0.35	0.11	3.37	207.3	99.9	0	49
Pb	1.23	0.15	10.95	721.4	99.9	0	49
Precip	-	0.0	45.8	587.2	100.0	4	53
V	0.60	0.23	2.57	355.1	99.8	0	48
Zn	8.18	2.90	39.00	4805.6	99.3	0	48

DK0008R Anholt Denmark

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.23	0.16	0.42	135.1	100.0	0	11
Cd	0.05	0.02	0.15	30.1	100.0	0	11
Cr	0.18	0.09	0.39	106.9	100.0	0	11
Cu	1.63	0.53	9.35	973.9	100.0	0	11
Ni	0.48	0.17	1.88	286.3	100.0	0	11
Pb	1.32	0.81	3.52	787.7	100.0	0	11
Precip	-	25.3	110.8	595.9	91.9	0	11
Zn	18.09	6.80	50.39	10779.2	100.0	0	11

DK0020R Pedersker, Bornholm Denmark

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.13	0.06	0.30	60.9	100.0	0	12
Cd	0.18	0.03	1.33	86.7	100.0	0	12
Cr	0.15	0.06	0.39	70.8	100.0	0	12
Cu	2.86	0.61	18.42	1353.5	100.0	0	12
Ni	0.50	0.21	1.88	235.4	100.0	0	12
Pb	1.38	0.52	5.22	652.3	100.0	0	12
Precip	-	11.2	110.8	473.3	92.2	0	12
Zn	16.70	7.54	41.80	7902.5	100.0	0	12

DK0022R Sepstrup Sande Denmark

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.11	0.05	0.25	109.9	100.0	0	12
Cd	0.03	0.01	0.07	26.0	100.0	0	12
Cr	0.11	0.06	0.27	108.9	100.0	0	12
Cu	0.71	0.28	1.68	696.6	100.0	0	12
Ni	0.25	0.19	0.41	242.3	100.0	0	12
Pb	0.98	0.30	2.74	967.1	100.0	0	12
Precip	-	38.9	147.5	984.9	99.8	0	12
Zn	5.38	2.79	11.22	5299.4	100.0	0	12

DK0031R Ulborg Denmark

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.10	0.03	0.30	101.1	100.0	0	12
Cd	0.03	0.01	0.07	33.4	100.0	0	12
Cr	0.10	0.03	0.35	101.8	100.0	0	12
Cu	3.72	0.24	17.50	3769.5	100.0	0	12
Ni	0.43	0.13	1.63	439.3	100.0	0	12
Pb	0.70	0.21	1.61	712.3	100.0	0	12
Precip	-	11.8	143.2	1013.6	99.8	0	12
Zn	7.81	3.41	20.99	7911.7	100.0	0	12

EE0009R Lahemaa Estonia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.29	0.10	1.30	220.1	100.0	7	12
Cd	0.03	0.01	0.22	26.2	100.0	4	12
Cu	12.28	1.30	41.60	9447.5	100.0	0	12
Pb	1.22	0.50	3.70	940.0	100.0	10	12
Precip	-	7.9	155.5	769.1	99.9	0	12
Zn	7.07	5.00	27.00	5436.1	100.0	11	12

EE0011R Vilsandi Estonia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.36	0.10	1.70	227.0	100.0	8	12
Cd	0.07	0.01	0.35	42.8	100.0	2	12
Cu	15.63	2.30	47.30	9907.6	100.0	0	12
Pb	0.87	0.50	1.50	549.0	100.0	9	12
Precip	-	4.0	120.9	633.9	99.9	0	12
Zn	10.32	5.00	32.00	6543.0	100.0	4	12

ES0008R Niembro Spain

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.75	0.75	0.75	828.8	100.0	48	48
Cd	0.16	0.07	0.96	175.1	100.0	29	48
Cr	30.05	2.50	485.14	33213.5	100.0	0	48
Cu	21.81	2.51	143.84	24105.1	100.0	0	48
Ni	50.71	5.73	781.00	56039.9	100.0	0	48
Pb	3.54	1.03	22.04	3910.2	100.0	12	48
Precip	-	0.4	82.2	1105.1	98.6	0	48
Zn	136.03	18.00	3011.87	150324.1	100.0	0	48

ES0009R Campisabalos Spain

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As*	2.07	1.74	2.07	817.3	5.9	31	2
Cd	0.22	0.16	0.32	86.8	16.1	25	8
Cr	11.21	4.78	79.91	4433.2	96.0	1	32
Cu	12.55	4.93	43.89	4964.5	100.0	0	33
Ni	17.00	4.69	91.69	6722.6	64.1	7	26
Pb	5.17	2.66	24.78	2044.8	39.6	17	16
Precip	-	0.2	50.3	395.5	95.6	0	33

* Jan, Aug only

FI0008R Kevo Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.09	0.02	2.36	26.7	100.0	0	12
Cd	0.03	0.01	0.68	7.8	100.0	0	12
Cr	0.26	0.04	1.77	78.9	100.0	0	12
Cu	1.32	0.73	34.38	395.8	100.0	0	12
Fe	18.23	8.72	260.38	5451.5	100.0	0	12
Mn	1.98	0.23	22.58	591.5	100.0	0	12
Ni	0.62	0.18	16.77	185.4	100.0	0	12
Pb	0.60	0.19	19.07	179.5	100.0	0	12
Precip	-	1.6	65.9	299.1	99.9	0	12

FI0017R Virolahti II Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.14	0.05	0.26	79.8	100.0	0	12
Cd	0.06	0.02	0.12	33.5	100.0	0	12
Cr	0.63	0.09	4.29	363.4	100.0	0	12
Cu	1.01	0.53	2.32	585.5	100.0	0	12
Fe	37.93	11.73	249.09	21925.0	100.0	0	12
Mn	2.67	0.81	15.91	1545.1	100.0	0	12
Ni	0.46	0.11	1.98	265.7	100.0	0	12
Pb	1.35	0.51	2.53	783.2	100.0	0	12
Precip	-	7.9	119.4	578.0	99.9	0	12
V	0.54	0.23	1.02	313.7	100.0	0	12
Zn	4.62	1.97	8.27	2668.5	100.0	0	12

FI0022R Oulanka Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.08	0.03	0.25	38.5	100.0	0	12
Cd	0.03	0.01	0.06	12.7	100.0	0	12
Cr	0.34	0.01	3.50	169.2	100.0	2	12
Cu	0.74	0.36	1.59	368.8	100.0	0	12
Fe	12.68	5.61	36.55	6301.4	100.0	0	12
Mn	1.32	0.33	6.16	654.3	100.0	0	12
Ni	0.27	0.09	1.60	135.3	100.0	0	12
Pb	0.52	0.19	0.98	256.4	100.0	0	12
Precip	-	12.0	81.4	497.1	99.9	0	12
V	0.19	0.12	0.34	95.6	100.0	0	12
Zn	1.77	0.71	6.93	877.7	100.0	0	12

FI0036R Matorova Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.07	0.02	0.13	54.2	100.0	0	12
Cd	0.02	0.01	0.04	17.6	100.0	0	12
Cr	0.12	0.01	0.31	92.2	100.0	3	12
Cu	0.76	0.60	1.67	564.1	100.0	0	12
Fe	11.03	0.75	24.64	8174.5	100.0	1	12
Mn	1.23	0.20	2.59	911.2	100.0	0	12
Ni	0.26	0.04	0.92	189.7	100.0	0	12
Pb	0.58	0.15	1.44	427.5	100.0	0	12
Precip	-	10.5	226.9	741.1	99.9	0	12
V	0.15	0.06	0.43	114.1	100.0	0	12
Zn	2.97	0.95	7.87	2204.0	100.0	0	12

FI0053R Hailuoto Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.07	0.04	0.21	33.5	100.0	0	12
Cd	0.03	0.02	0.07	14.4	100.0	0	12
Cr	0.29	0.04	2.92	132.3	100.0	0	12
Cu	0.94	0.55	2.74	424.3	100.0	0	12
Fe	32.26	8.64	149.70	14617.9	100.0	0	12
Mn	2.01	0.84	7.01	912.0	100.0	0	12
Ni	0.32	0.15	1.57	143.5	100.0	0	12
Pb	0.71	0.40	2.09	322.4	100.0	0	12
Precip	-	8.2	97.4	453.1	99.9	0	12

FI0092R Hietajarvi Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.06	0.03	0.11	48.2	100.0	0	12
Cd	0.04	0.01	0.09	29.6	100.0	0	12
Cr	0.18	0.01	1.10	149.5	100.0	2	12
Cu	0.59	0.26	1.35	493.0	100.0	0	12
Fe	13.61	5.16	26.42	11270.6	100.0	0	12
Mn	1.27	0.28	3.60	1055.3	100.0	0	12
Ni	0.18	0.05	0.56	147.2	100.0	0	12
Pb	0.79	0.33	2.19	655.4	100.0	0	12
Precip	-	22.5	147.0	828.3	99.9	0	12
V	0.22	0.07	0.48	180.1	100.0	0	12
Zn	2.22	1.13	4.73	1836.5	100.0	0	12

FI0093R Kotinen Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.08	0.04	0.14	59.4	100.0	0	12
Cd	0.03	0.01	0.09	23.5	100.0	0	12
Cr	0.20	0.02	0.77	154.0	100.0	0	12
Cu	0.63	0.35	2.87	487.2	100.0	0	12
Fe	15.96	6.92	36.79	12392.8	100.0	0	12
Mn	1.47	0.48	3.91	1143.7	100.0	0	12
Ni	0.18	0.11	0.49	142.8	100.0	0	12
Pb	0.70	0.28	1.54	540.3	100.0	0	12
Precip	-	7.0	191.8	776.3	99.9	0	12
V	0.30	0.16	0.53	233.1	100.0	0	12
Zn	3.26	1.82	7.65	2533.0	100.0	0	12

FI0096G Pallas Finland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Hg	6.26	1.80	9.80	2309.1	100.0	0	10
Precip	-	3.6	95.6	368.9	96.7	2	12

FR0090R Porspoder France

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.28	0.15	0.47	293.6	100.0	0	12
Cd	0.02	0.01	0.04	23.1	100.0	0	12
Cr	0.17	0.08	0.41	182.2	100.0	0	12
Cu	1.44	0.75	3.79	1527.2	100.0	0	12
Ni	0.55	0.34	1.02	580.4	100.0	0	12
Pb	0.57	0.02	1.50	602.9	100.0	0	12
Precip	-	39.0	173.0	1059.0	99.7	0	12
Zn	2.05	1.00	4.58	2170.3	100.0	0	12

GB0006R Lough Navar United Kingdom

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.24	0.08	0.72	396.1	100.0	0	12
Cd	0.01	0.00	0.05	19.4	100.0	1	12
Cr	0.11	0.02	0.26	185.3	100.0	2	12
Cu	0.43	0.15	0.81	701.9	100.0	0	12
Ni	0.06	0.02	0.12	96.4	100.0	0	12
Pb	0.29	0.03	1.20	482.9	100.0	1	12
Precip	-	68.6	218.7	1639.3	99.9	0	12
Zn	2.43	0.50	6.48	3987.2	100.0	1	12

GB0013R Yarner Wood United Kingdom

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.09	0.00	1.21	119.2	100.0	0	50
Cd	0.03	0.00	0.32	33.4	99.1	4	49
Cr	0.07	0.00	0.84	95.9	100.0	7	50
Cu	0.50	0.00	9.59	643.3	100.0	0	50
Ni	0.24	0.00	4.32	305.3	100.0	0	50
Pb	0.65	0.00	11.60	838.4	100.0	1	50
Precip	-	0.0	110.4	1287.7	95.4	9	50
Zn	5.14	0.00	34.60	6615.8	100.0	2	50

GB0017R

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.14	0.12	0.18	99.0	100.0	0	5
Cd	0.04	0.02	0.06	30.0	100.0	0	5
Cr	0.08	0.02	0.15	61.3	100.0	1	5
Cu	1.13	0.90	1.31	826.9	100.0	0	5
Ni	0.27	0.22	0.34	197.8	100.0	0	5
Pb	1.60	1.30	1.84	1173.9	100.0	0	5
Precip	-	31.2	347.7	734.6	87.8	0	5
Zn	6.00	5.62	8.34	4407.9	100.0	0	5

GB0091R Banchory United Kingdom

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.03	0.00	0.22	22.4	95.8	4	50
Cr	0.10	0.02	0.59	81.2	95.8	5	50
Cu	0.49	0.04	2.70	396.8	94.4	0	49
Ni	0.33	0.03	3.35	270.5	95.5	0	49
Pb	1.13	0.03	6.32	912.9	95.8	1	50
Precip	-	0.0	67.5	810.7	87.4	1	46
Zn	5.81	0.05	22.92	4707.8	95.8	1	50

IE0001R Valentia Obs. Ireland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Al	12.39	5.00	59.10	16942.0	100.0	5	12
As	0.50	0.50	0.50	683.5	100.0	12	12
Cd	0.06	0.05	0.27	85.7	100.0	11	12
Cr	0.55	0.50	2.40	757.6	100.0	11	12
Cu	8.74	2.00	76.60	11948.9	100.0	0	12
Hg	50.00	50.00	50.00	68350.0	100.0	12	12
Mn	8.68	0.50	36.50	11861.6	100.0	1	12
Ni	2.45	0.50	30.40	3351.5	100.0	10	12
Pb	1.27	0.50	4.40	1732.4	100.0	7	12
Precip	-	39.0	213.0	1367.0	99.7	0	12
V	0.50	0.50	0.50	683.5	100.0	12	12
Zn	31.77	3.70	157.50	43433.6	100.0	0	12

IS0090R Reykjavik Iceland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Al	153.32	18.00	2074.00	148843.6	98.2	0	48
As	0.18	0.03	0.88	175.2	98.2	8	48
Cd	0.01	0.01	0.07	8.8	98.2	31	48
Cr	0.24	0.05	10.14	237.5	98.2	15	48
Cu	1.61	0.52	13.94	1564.9	98.2	0	48
Fe	118.83	5.00	2021.00	115355.1	98.2	3	48
Mn	2.75	0.40	31.99	2665.8	98.2	0	48
Ni	0.55	0.05	17.88	535.6	98.2	1	48
Pb	0.39	0.12	2.94	374.3	98.2	0	48
Precip	-	0.0	69.1	970.8	100.0	6	59
V	1.29	0.27	5.51	1256.0	98.2	0	48
Zn	7.18	0.32	142.70	6970.5	98.2	0	48

IS0091R Storhofdi Iceland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Al	165.86	13.40	3063.00	266554.6	99.9	0	54
Cd	0.01	0.01	0.10	16.9	99.9	28	54
Cr	0.34	0.05	2.94	539.8	99.9	13	54
Cu	1.37	0.28	11.27	2208.8	99.9	0	54
Fe	259.40	5.00	5171.00	416878.2	99.9	1	54
Mn	3.88	0.26	88.11	6239.9	99.9	0	54
Ni	0.33	0.05	2.83	537.1	99.9	9	54
Pb	0.38	0.11	2.31	602.8	99.9	0	54
Precip	-	0.0	94.6	1607.1	100.0	2	59
Zn	11.86	1.81	67.92	19056.9	99.9	0	54

LT0015R Preila Lithuania

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.21	0.03	1.37	135.5	100.0	0	43
Cu	1.71	0.40	21.50	1118.9	100.0	0	43
Pb	12.78	0.60	107.00	8364.6	100.0	0	43
Precip	-	0.0	79.2	654.7	100.0	10	53
Zn	135.90	8.00	862.00	88979.2	100.0	0	43

LV0010R Rucava Latvia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.37	0.00	1.45	238.6	96.3	38	45
Cd	0.10	0.02	0.61	67.2	96.3	2	44
Cu	1.62	0.10	13.80	1049.4	96.3	6	44
Mn	5.90	0.86	62.13	3831.2	96.1	33	43
Ni	1.65	0.25	15.59	1072.3	96.3	18	44
Pb	1.44	0.30	5.30	933.5	94.7	3	43
Precip	-	0.0	48.0	649.0	102.2	8	55
Zn	23.91	5.04	134.10	15518.5	96.1	16	43

LV0016R Zoseni Latvia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.30	0.04	2.79	214.6	99.2	42	44
Cd	0.07	0.01	0.49	48.0	98.5	8	43
Cu	1.30	0.20	24.50	939.8	99.3	7	45
Mn	5.84	0.42	28.85	4228.5	99.3	39	45
Ni	1.35	0.02	9.21	979.6	99.3	22	45
Pb	1.02	0.15	7.10	738.0	99.3	6	45
Precip	-	0.0	42.8	724.2	100.0	4	53
Zn	16.45	6.24	126.92	11909.7	99.2	25	44

NL0009R Kollumerwaard Netherlands

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.13	0.07	0.42	101.0	68.3	5	9
Cd	0.04	0.02	0.14	34.5	84.1	2	10
Cr	0.26	0.26	0.26	198.1	84.1	10	10
Cu	1.03	0.41	6.66	783.8	84.1	0	10
Ni	0.24	0.20	0.55	184.7	84.1	7	10
Pb	1.23	0.46	2.15	934.5	84.1	0	10
Precip	-	9.5	131.6	762.0	88.8	0	12
Zn	4.74	1.95	12.70	3611.0	84.1	2	10

NL0091R De Zilk Netherlands

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.08	0.07	0.30	59.4	100.0	11	12
Cd	0.03	0.02	0.09	21.1	100.0	6	12
Cr	0.26	0.26	0.26	187.2	100.0	12	12
Cu	1.80	0.84	5.54	1294.1	100.0	0	12
Hg	15.16	4.00	75.00	10379.9	90.7	0	40
Ni	0.31	0.20	0.67	222.7	100.0	6	12
Pb	2.32	1.47	3.61	1670.7	100.0	0	12
Precip	-	22.3	132.5	720.1	90.4	2	48
Zn	5.57	4.00	17.70	4009.5	100.0	0	12

NO0001R Birkenes Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.12	0.05	0.60	211.7	100.0	26	53
Cd	0.04	0.00	0.24	68.3	100.0	48	53
Co	0.01	0.01	0.15	19.5	100.0	52	53
Cr	0.11	0.10	0.70	188.1	100.0	52	53
Cu	0.35	0.05	3.78	593.7	100.0	32	53
Hg	9.85	1.90	25.40	14102.8	100.0	0	17
Ni	0.21	0.10	0.87	356.6	100.0	48	53
Pb	1.30	0.11	7.57	2231.2	100.0	0	53
Precip	-	7.3	185.0	1709.3	99.9	3	62
V	0.61	0.05	1.44	1046.4	100.0	24	53
Zn	4.12	0.39	32.65	7049.8	100.0	0	53

NO0039R Kaarvatn Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.01	0.00	0.21	9.7	100.0	51	52
Pb	0.13	0.01	4.58	232.9	100.0	14	52
Precip	-	0.0	177.3	1775.2	99.9	5	62
Zn	1.25	0.05	18.87	2212.6	100.0	3	52

NO0047R Svanvik Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.91	0.05	16.12	334.5	99.5	4	44
Cd	0.08	0.01	1.02	30.7	99.5	27	44
Co	0.95	0.01	12.70	349.7	99.5	5	44
Cr	0.39	0.10	4.09	143.9	99.5	16	44
Cu	31.02	0.16	491.10	11373.7	99.5	0	44
Ni	36.93	0.48	456.00	13537.1	99.5	0	44
Pb	1.32	0.14	12.55	484.7	99.5	0	44
Precip	-	0.0	32.7	366.5	98.8	6	59
Zn	6.50	1.07	44.06	2382.7	99.5	0	44

NO0055R Karasjok Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.01	0.00	0.12	4.2	99.4	11	41
Pb	0.74	0.11	15.77	230.8	99.4	0	41
Precip	-	0.0	52.7	312.2	99.9	8	61
Zn	4.03	0.94	49.96	1258.6	99.4	0	41

NO0056R Hurdal Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.04	0.00	0.50	37.3	99.9	45	51
Pb	0.89	0.12	7.21	802.2	99.9	0	51
Precip	-	0.0	77.9	904.1	99.9	5	61
Zn	10.00	0.84	202.60	9047.9	99.9	0	51

PL0004R Leba Poland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.04	0.02	0.06	29.9	100.0	0	12
Cr	0.09	0.04	0.39	71.5	100.0	0	12
Cu	0.80	0.28	1.41	661.8	100.0	0	12
Ni	0.19	0.06	0.63	159.1	100.0	0	12
Pb	0.96	0.27	2.04	794.5	100.0	0	12
Precip	-	20.4	147.2	826.5	99.7	0	12
Zn	4.73	3.44	8.98	3908.8	77.4	0	10

PL0005R Diabla Gora Poland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.23	0.05	0.95	165.6	99.0	0	49
Cd	0.11	0.02	0.51	79.3	99.0	0	49
Cr	0.09	0.02	0.39	62.7	99.0	0	49
Cu	1.79	0.07	5.50	1284.7	99.0	0	49
Hg	270	20.0	1630	194000	76.7	23	42
Ni	1.23	0.03	4.00	884.4	99.0	0	49
Pb	1.33	0.19	5.20	957.1	99.0	0	49
Precip	-	0.0	59.3	717.0	99.5	1	52
Zn	5.06	0.40	28.40	3625.1	99.0	0	49

PT0001R Braganca Portugal

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.42	0.42	0.42	193.7	74.3	21	21
Cu	1.47	0.33	9.43	668.1	74.3	7	21
Mn	4.65	1.07	23.43	2119.5	74.3	12	21
Ni	0.81	0.78	3.08	370.0	74.3	20	21
Pb	3.85	0.65	19.84	1756.4	74.3	13	21
Precip off	-	0.00	39.70	455.8	99.6	267	365
Zn	17.00	2.00	243.00	7746.2	74.3	0	21

PT0003R V. Do Castelo Portugal

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.43	0.42	0.85	951.5	94.4	62	63
Cu	7.79	0.33	19.46	17385.2	94.4	20	63
Mn	1.50	1.07	16.47	3349.7	94.4	44	63
Ni	1.30	0.78	2.52	2909.1	94.4	59	63
Pb	1.77	0.65	20.02	3963.1	94.4	43	63
Precip off	-	0.00	1318.00	2233.0	99.9	231	366
Zn	9.09	1.00	93.00	20295.5	94.4	0	63

PT0004R Monte Velho Portugal

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.42	0.42	0.42	151.7	89.0	21	21
Cu	0.56	0.33	5.60	199.3	89.0	15	21
Mn	1.62	1.07	12.68	577.1	89.0	16	21
Ni	1.26	0.78	10.52	449.4	89.0	19	21
Pb	3.09	0.65	20.96	1103.5	89.0	14	21
Precip off	-	0.00	36.00	357.0	99.9	331	366
Zn	7.68	1.00	28.00	2740.2	89.0	0	21

PT0010R Angro do Heroismo Portugal

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Cd	0.42	0.42	0.42	272.6	58.2	10	10
Cu	0.33	0.33	0.33	208.5	58.2	10	10
Mn	3.60	1.07	11.52	2309.7	58.2	7	10
Ni	7.07	0.78	23.19	4536.0	58.2	4	10
Pb	0.68	0.65	2.04	433.6	58.2	9	10
Precip off	-	0.00	74.00	641.4	97.4	3	51
Zn	24.83	4.00	74.00	15924.1	58.2	0	10

SE0014R Råö Sweden

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Hg	14.65	5.40	46.00	8113.9	100.0	0	11
Precip	-	3.4	100.6	553.9	96.7	1	12

SE0051R Arup Sweden

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.13	0.03	0.23	73.2	100.0	2	13
Cd	0.05	0.01	0.18	25.1	100.0	1	13
Cr	0.05	0.03	0.32	27.7	100.0	8	13
Cu	0.91	0.39	3.25	500.3	100.0	0	13
Mn	5.10	1.60	19.90	2799.5	99.0	0	12
Ni	0.30	0.15	0.74	162.3	100.0	0	13
Pb	1.32	0.24	2.75	723.0	100.0	0	13
Precip	-	5.0	99.0	548.5	100.3	0	13
V	0.62	0.28	1.09	341.0	100.0	0	13
Zn	6.58	2.03	19.32	3609.6	100.0	0	13

SE0097R Gårdsjon Sweden

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.08	0.03	0.34	84.4	100.0	6	12
Cd	0.03	0.01	0.10	35.2	100.0	0	12
Co	0.01	0.00	0.07	15.2	100.0	2	12
Cr	0.14	0.03	0.48	150.6	100.0	4	12
Cu	0.57	0.32	1.40	626.6	100.0	0	12
Mn	1.22	0.00	2.50	1326.4	100.0	0	12
Ni	0.32	0.20	0.49	343.6	100.0	0	12
Pb	0.91	0.34	1.55	988.2	100.0	0	12
Precip	-	36.0	156.0	1091.0	97.0	0	12
V	0.65	0.22	1.50	705.4	100.0	0	12
Zn	4.33	3.09	9.55	4727.3	100.0	0	12

SK0002R Chopok Slovakia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.28	0.05	0.79	306.7	100.0	0	12
Cd	0.52	0.08	0.98	560.2	97.0	0	11
Cr	0.21	0.05	0.94	228.8	100.0	0	12
Cu	1.76	0.60	3.81	1896.5	87.3	0	11
Ni	0.54	0.05	1.68	585.6	100.0	1	12
Pb	2.57	0.92	4.50	2767.6	100.0	0	12
Precip	-	32.0	185.5	1077.0	99.5	0	12
Zn	23.55	16.00	31.00	25357.5	55.6	0	5

SK0004R Stara Lesna Slovakia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.29	0.01	0.64	227.8	100.0	1	12
Cd	0.22	0.06	0.68	170.0	100.0	0	12
Cr	0.04	0.02	0.10	35.5	100.0	1	12
Cu	1.55	0.66	5.86	1219.4	100.0	0	12
Ni	0.15	0.05	0.81	121.4	100.0	3	12
Pb	2.59	1.24	7.81	2039.0	100.0	0	12
Precip	-	14.5	146.2	786.2	99.5	0	12
Zn	7.28	1.07	14.00	5726.8	68.7	0	6

SK0005R Liesek Slovakia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.34	0.02	0.67	276.6	100.0	1	12
Cd	0.12	0.05	0.35	97.0	100.0	0	12
Cr	0.08	0.02	0.18	66.3	100.0	1	12
Cu	1.56	0.43	2.86	1252.6	100.0	0	12
Ni	0.28	0.03	1.75	227.0	100.0	1	12
Pb	2.39	0.66	4.73	1916.2	100.0	0	12
Precip	-	12.2	171.3	802.3	99.5	0	12
Zn	7.38	1.89	17.00	5920.7	67.8	0	6

SK0006R Starina Slovakia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.38	0.05	1.29	353.3	100.0	0	12
Cd	0.17	0.03	0.57	153.3	100.0	0	12
Cr	0.05	0.01	0.23	46.3	100.0	1	12
Cu	1.64	0.74	3.37	1507.9	100.0	0	12
Ni	0.08	0.03	0.28	76.1	89.3	4	11
Pb	3.07	1.44	8.67	2829.9	100.0	0	12
Precip	-	21.0	174.4	921.9	99.5	0	12
Zn	9.63	3.00	16.00	8878.9	32.6	0	4

SK0007R Topoliniky Slovakia

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
As	0.23	0.02	0.62	120.4	100.0	1	12
Cd	0.06	0.02	0.08	31.0	100.0	0	12
Cr	0.03	0.01	0.07	17.7	89.1	1	11
Cu	0.51	0.18	0.86	269.9	100.0	0	12
Ni	0.13	0.03	0.87	71.0	100.0	5	12
Pb	1.31	0.32	4.96	691.7	100.0	0	12
Precip	-	21.7	147.3	529.1	99.5	0	12
Zn	5.84	1.34	11.00	3092.5	72.8	0	7

Annex 2

Annual statistics for heavy metals in air

AT0002R Illmitz Austria

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	1.27	0.83	1.03	1.99	0.40	0.40	1.10	3.10	3.10	4.1	4	15
Cd	0.23	0.18	0.16	2.43	0.04	0.04	0.18	0.61	0.67	16.4	12	60
Ni	2.25	0.87	2.03	1.67	0.80	0.80	2.48	3.27	3.27	4.1	3	15
Pb	8.24	5.95	6.32	2.15	1.10	1.42	5.95	20.95	26.00	16.4	0	60

AT0005R Vorhegg Austria

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.12	0.16	0.08	2.19	0.05	0.05	0.05	0.41	1.00	15.6	36	57
Pb	3.61	2.95	2.51	2.55	0.40	0.40	2.90	11.35	13.50	15.6	6	57

AT0048R Zoebelboden Austria

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.09	0.09	0.07	1.81	0.05	0.05	0.05	0.30	0.60	15.8	43	58
Pb	2.67	1.96	2.08	2.10	0.40	0.40	2.05	7.22	9.50	15.8	5	58

CZ0001R Svratouch Czech Republic

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.26	0.20	0.20	2.05	0.03	0.06	0.22	0.64	1.72	46.4	0	170
Pb	8.56	6.16	6.89	1.94	1.35	2.17	6.85	20.53	47.91	46.4	0	170

CZ0003R Kosetice Czech Republic

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.23	0.21	0.17	2.11	0.04	0.05	0.17	0.58	1.90	49.1	0	180
Pb	6.54	5.95	4.92	2.09	0.86	1.77	4.78	17.01	52.47	49.1	0	180

DE0001R Westerland Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.08	0.07	0.05	2.86	0.01	0.01	0.07	0.23	0.26	97.5	0	51
Cu	1.65	1.11	1.21	2.54	0.09	0.17	1.41	3.80	5.27	97.5	0	51
Fe	60.33	42.77	44.13	2.53	2.00	8.20	52.00	142.20	223.00	97.5	0	51
Mn	1.77	1.16	1.34	2.48	0.03	0.25	1.59	3.52	6.63	97.5	0	51
Ni	1.35	0.73	1.10	2.09	0.12	0.21	1.42	2.59	3.12	91.8	0	48
Pb	3.82	2.64	2.92	2.26	0.24	0.49	3.01	10.25	11.13	97.5	0	51
V	3.25	1.75	2.73	1.93	0.37	0.56	2.81	6.51	8.46	97.5	0	51

DE0002R Langenbrugge Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.48	0.33	0.40	1.78	0.14	0.15	0.37	1.08	2.02	97.5	0	51
Cd	0.16	0.12	0.12	2.00	0.03	0.04	0.13	0.44	0.62	97.5	0	51
Cu	2.47	1.00	2.27	1.52	0.79	1.00	2.44	4.79	5.18	97.5	0	51
Fe	121.75	60.89	108.87	1.61	31.00	42.00	101.00	283.00	301.00	97.5	0	51
Mn	3.98	2.06	3.55	1.63	0.97	1.25	3.30	9.26	11.45	97.5	0	51
Ni	1.00	0.34	0.94	1.43	0.29	0.51	0.95	1.70	1.99	97.5	0	51
Pb	7.89	5.63	6.45	1.88	1.61	2.19	5.62	19.64	32.21	97.5	0	51
V	1.15	0.47	1.07	1.44	0.49	0.56	1.09	1.82	3.39	97.5	0	51
Zn	10.66	7.93	8.14	2.18	1.85	1.85	7.84	26.52	42.74	97.5	0	51
Hg (TGM)	1.95	0.36	1.93	1.19	1.08	1.49	1.89	2.68	3.51	99.5	0	365

DE0003R Schauinsland Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.05	0.04	0.04	1.84	0.01	0.02	0.04	0.15	0.21	97.5	0	51
Cu	1.24	0.93	0.91	2.38	0.08	0.18	0.96	3.47	3.92	97.5	0	51
Fe	82.37	105.97	44.65	3.25	2.00	7.60	55.00	322.20	587.00	97.5	0	51
Mn	1.70	1.70	1.13	2.58	0.08	0.30	1.30	5.69	8.40	97.5	0	51
Ni	0.54	0.48	0.41	2.06	0.10	0.13	0.37	1.67	2.49	97.5	0	51
Pb	2.40	1.57	1.88	2.16	0.28	0.31	1.96	5.74	6.32	97.5	0	51
V	0.56	0.39	0.43	2.21	0.04	0.14	0.47	1.37	1.80	97.5	0	51

DE0007R Neuglobsow Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.69	0.59	0.53	2.04	0.15	0.20	0.48	2.06	3.07	99.2	0	52
Cd	0.21	0.17	0.16	2.15	0.04	0.05	0.16	0.58	0.88	99.2	0	52
Cu	2.61	1.20	2.35	1.62	1.03	1.05	2.58	4.75	5.96	99.2	0	52
Fe	78.82	50.34	63.88	1.97	16.00	19.30	71.00	188.00	225.00	99.2	0	52
Mn	3.43	1.84	3.02	1.66	1.15	1.23	2.96	7.79	9.05	99.2	0	52
Ni	0.92	0.57	0.79	1.76	0.10	0.34	0.84	1.70	4.00	99.2	0	52
Pb	7.69	6.11	5.90	2.09	1.52	1.84	5.16	20.84	31.04	99.2	0	52
V	1.58	0.57	1.49	1.43	0.62	0.79	1.48	2.91	3.19	99.2	0	52
Zn	17.21	13.39	12.17	2.50	1.85	1.85	13.86	48.67	59.13	99.2	0	52
Hg (TGM)	1.78	0.40	1.74	1.24	1.02	1.29	1.69	2.60	3.17	74.9	0	275

DE0008R Schmucke Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cu	2.01	0.84	1.80	1.67	0.45	0.45	2.06	3.44	3.83	97.5	0	51
Fe	76.12	49.78	56.36	2.54	2.00	7.60	74.00	172.00	212.00	97.5	0	51
Mn	2.47	1.33	2.09	1.86	0.54	0.62	2.45	5.59	5.65	97.5	0	51
Ni	0.94	0.58	0.79	1.82	0.22	0.23	0.76	1.90	3.21	97.5	0	51
Pb	4.04	3.31	3.41	1.70	1.31	1.57	3.23	9.11	23.50	97.5	0	51
V	0.71	0.33	0.64	1.62	0.23	0.26	0.67	1.37	1.59	97.5	0	51

DE0009R Zingst Germany

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.20	0.19	0.14	2.41	0.03	0.03	0.13	0.73	0.83	97.8	0	51
Cu	1.42	1.13	0.98	2.58	0.17	0.17	1.07	3.82	4.79	97.8	0	51
Fe	62.68	34.08	53.22	1.85	10.00	12.20	57.00	137.20	150.00	97.8	0	51
Mn	2.47	1.20	2.20	1.63	0.75	0.90	2.26	5.22	5.36	95.9	0	50
Ni	1.57	0.77	1.39	1.66	0.51	0.64	1.39	2.99	3.55	95.9	0	50
Pb	5.38	4.38	3.92	2.29	0.65	0.80	3.65	16.63	17.39	97.8	0	51
V	4.40	2.51	3.84	1.69	1.28	1.64	3.65	9.34	14.09	97.8	0	51
Hg (TGM)	1.65	0.26	1.63	1.16	1.19	1.29	1.61	2.17	2.71	100.0	0	367

DK0003R Tange Denmark

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.64	0.65	0.41	2.74	-0.18	0.06	0.46	1.98	4.79	99.4	26	364
Cd	0.15	0.35	0.20	2.91	-3.54	-0.23	0.12	0.68	1.39	99.4	303	364
Cr	0.49	5.02	0.33	3.19	-37.46	-0.38	0.24	1.37	87.21	99.4	221	364
Cu	1.54	3.72	1.07	2.62	-17.89	0.07	1.15	3.63	49.76	99.4	29	364
Fe	104.33	151.32	54.41	3.05	-54.79	9.32	50.78	389.47	1229.90	99.4	0	364
Mn	3.81	4.64	2.42	2.63	-18.08	0.55	2.27	13.37	31.87	99.4	5	364
Ni	1.13	0.95	0.78	2.75	-0.74	0.12	0.88	2.82	6.64	99.4	20	364
Pb	4.61	5.48	2.83	2.76	0.00	0.52	2.87	16.75	45.75	99.4	0	364
Zn	16.64	46.40	9.69	2.56	-19.57	2.08	10.25	38.18	786.39	99.4	11	364

DK0008R Anholt Denmark

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.33	0.32	0.23	2.51	-0.03	0.05	0.26	0.80	3.45	99.6	41	365
Cd	0.12	0.29	0.17	2.97	-0.53	-0.28	0.09	0.57	2.06	99.6	326	365
Cr	0.21	0.73	0.31	2.84	-2.54	-0.86	0.19	1.05	8.63	99.6	246	365
Cu	1.03	1.58	0.69	2.92	-0.94	-0.06	0.70	3.04	17.52	99.6	61	365
Fe	52.70	62.62	31.21	2.79	2.05	5.74	30.09	192.31	417.42	99.6	1	365
Mn	1.92	1.87	1.30	2.54	-0.11	0.26	1.29	6.09	10.53	99.6	33	365
Ni	1.87	1.93	1.29	2.53	-0.03	0.24	1.34	5.37	24.32	99.6	9	365
Pb	3.91	5.14	2.03	3.41	-0.06	0.28	2.19	13.76	34.20	99.6	10	365
Zn	9.45	9.43	6.02	2.79	0.09	0.89	6.44	28.76	57.77	99.6	28	365

DK0011G Nuuk, Greenland Denmark

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Al	18.09	23.99	13.55	3.44	-4.53	-1.63	10.67	80.51	88.05	82.8	16	48
As	0.02	0.04	0.01	2.91	-0.01	-0.00	0.01	0.11	0.21	82.8	28	48
Cr	0.06	0.07	0.05	2.36	-0.12	-0.05	0.06	0.20	0.23	82.8	19	48
Cu	0.20	0.23	0.18	2.60	-0.21	-0.11	0.15	0.72	0.77	82.8	14	48
Fe	16.64	20.89	8.05	3.98	0.54	0.73	9.46	64.10	94.11	82.8	0	48
Hg	1.38	0.18	1.37	1.16	0.54	1.02	1.41	1.61	2.34	73.5	0	6460
Mn	0.31	0.38	0.15	5.18	-0.03	-0.01	0.21	1.26	1.58	82.8	11	48
Ni	0.09	0.08	0.07	2.54	-0.01	-0.01	0.06	0.27	0.28	82.8	10	48
Pb	0.25	0.27	0.15	3.21	0.01	0.01	0.17	0.97	1.27	82.8	5	48
Se	0.04	0.04	0.03	3.19	-0.00	-0.00	0.04	0.15	0.21	82.8	8	48
Zn	1.11	1.35	0.55	4.05	0.01	0.03	0.62	4.14	6.06	82.8	13	48

DK0031R Ulborg Denmark

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.26	0.29	0.16	3.15	-0.12	-0.00	0.17	0.81	2.44	85.4	79	313
Cd	0.10	0.23	0.16	2.63	-0.45	-0.27	0.10	0.51	0.93	85.4	278	313
Cr	0.19	0.44	0.24	3.23	-1.26	-0.45	0.14	0.94	1.83	85.4	222	313
Cu	0.80	2.27	0.48	3.53	-1.08	-0.14	0.47	2.55	37.83	85.4	99	313
Fe	50.08	75.72	23.70	3.68	0.03	2.82	23.01	195.67	880.50	85.4	11	313
Mn	1.79	2.13	1.03	3.09	-0.30	0.11	1.03	6.60	15.00	85.4	61	313
Ni	0.96	1.73	0.63	2.80	-0.04	0.06	0.68	2.17	28.23	85.4	30	313
Pb	3.03	3.79	1.44	4.28	-0.18	0.07	1.70	11.79	23.29	85.4	27	313
Zn	8.08	8.24	5.20	3.04	-1.51	0.07	5.54	25.44	50.03	85.4	43	313

ES0008R Niembro Spain

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.09	0.10	0.08	2.34	0.00	0.00	0.06	0.36	0.39	10.1	6	37
Cu	21.70	18.47	15.97	2.27	2.80	3.61	19.70	83.49	85.20	10.1	0	37
Pb	7.04	13.55	3.25	3.62	0.20	0.20	3.34	25.35	82.40	10.1	3	37

ES0009R Campisabalos Spain

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.05	0.04	0.04	1.98	0.00	0.00	0.04	0.12	0.14	12.6	6	46
Cu	39.82	40.35	21.26	4.17	0.09	1.80	33.55	103.79	228.70	12.6	1	46
Pb	1.68	1.38	0.99	3.27	0.20	0.20	1.72	4.19	5.66	12.6	14	46

FI0036R Matorova Finland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.12	0.14	0.07	2.65	0.01	0.01	0.07	0.41	0.76	99.9	1	53
Cd	0.03	0.04	0.02	2.95	0.00	0.00	0.02	0.14	0.18	99.9	0	53
Cr	0.09	0.09	0.04	4.59	0.00	0.00	0.06	0.29	0.32	99.9	10	53
Cu	0.32	0.34	0.20	2.61	0.02	0.04	0.23	1.03	2.04	99.9	0	53
Fe	24.86	29.47	16.93	2.27	3.51	4.88	16.65	80.94	174.69	99.9	0	53
Mn	0.66	0.70	0.44	2.46	0.07	0.10	0.39	1.93	4.00	99.9	0	53
Ni	0.36	0.42	0.22	2.95	0.02	0.02	0.27	1.06	2.72	99.9	0	53
Pb	0.86	0.95	0.53	2.69	0.07	0.09	0.53	3.38	4.33	99.9	0	53
V	0.42	0.54	0.24	2.93	0.02	0.04	0.26	1.43	3.30	99.9	0	53
Zn	2.98	3.54	1.74	2.71	0.32	0.35	1.58	10.64	17.79	99.9	0	53

FI0096G Pallas Finland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Hg (tub_denuder)	2.16	2.04	1.53	2.21	0.40	0.48	1.55	8.44	9.80	68.8	0	36
Hg (amalg_tube)	1.40	0.21	1.39	1.15	0.90	1.11	1.40	1.80	2.40	22.4	0	82

GB0013R Yarner Wood United Kingdom

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.56	0.36	0.46	1.91	0.11	0.16	0.50	1.27	1.65	99.7	0	53
Cd	0.07	0.09	0.05	2.20	0.03	0.03	0.03	0.28	0.55	99.7	33	53
Cr	1.20	0.52	1.10	1.52	0.34	0.54	1.16	2.33	3.00	99.7	0	53
Cu	1.96	2.53	1.34	2.30	0.17	0.17	1.28	6.16	17.10	99.7	3	53
Ni	1.51	1.37	1.10	2.18	0.19	0.30	1.21	5.12	7.04	99.7	0	53
Pb	4.43	3.50	3.36	2.17	0.74	0.88	3.70	13.30	16.03	99.7	0	53
Zn	14.24	13.39	11.22	1.93	3.36	3.64	13.71	33.35	94.46	99.7	0	53

GB0091R Banchory United Kingdom

January 2004 - December 2004, PM_{10} fraction

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.28	0.18	0.24	2.02	0.04	0.07	0.27	0.72	0.73	66.1	1	35
Cd	0.05	0.04	0.04	1.71	0.03	0.03	0.03	0.16	0.17	66.1	27	35
Cr	1.05	0.52	1.00	1.55	0.49	0.51	0.94	2.32	2.72	66.1	0	35
Cu	1.14	1.37	0.77	2.37	0.17	0.17	0.65	5.37	6.73	66.1	3	35
Ni	0.72	0.70	0.48	2.75	0.04	0.04	0.52	2.48	2.53	66.1	2	35
Pb	2.44	2.00	1.70	2.67	0.06	0.45	1.86	7.56	8.61	66.1	1	35
Zn	14.31	18.07	11.01	2.21	2.57	2.71	11.94	81.50	84.76	66.1	0	35

IS0091R Storhofdi Iceland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Al	581.46	828.71	293.25	3.77	20.80	22.65	383.50	3329.20	3942.40	99.1	0	24
As	0.19	0.08	0.17	1.54	0.07	0.07	0.19	0.36	0.36	95.5	0	23
Cd	0.12	0.18	0.05	4.43	0.00	0.00	0.03	0.65	0.68	92.1	1	23
Cr	10.88	11.55	7.33	2.78	0.70	0.83	7.40	41.30	43.37	99.8	0	25
Cu	1.11	0.67	0.94	1.87	0.21	0.24	0.98	2.92	3.18	95.5	0	23
Fe	725.11	962.30	419.68	3.08	55.50	59.88	459.90	3922.65	4535.40	99.1	0	24
Hg	3.73	2.69	3.15	1.81	1.00	1.10	3.50	12.30	14.50	99.1	0	24
Mn	10.35	8.33	7.20	2.64	0.98	1.03	9.37	32.58	33.60	95.5	0	23
Ni	6.89	5.44	5.06	2.27	0.69	0.92	4.88	21.41	21.69	99.1	0	24
Pb	0.92	1.08	0.57	3.05	0.10	0.10	0.48	3.44	3.59	92.1	0	23
V	2.65	1.67	2.18	1.94	0.79	0.80	2.42	6.94	7.10	95.5	0	23
Zn	20.65	31.18	10.11	3.74	2.11	2.15	7.30	103.55	113.10	96.3	0	24

LT0015R Preila Lithuania

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.19	0.15	0.14	2.27	0.02	0.04	0.17	0.56	0.71	99.3	0	52
Cu	1.61	0.72	1.47	1.54	0.60	0.77	1.50	3.10	3.80	99.3	0	52
Pb	5.86	3.65	4.83	1.92	0.70	1.78	5.05	13.76	17.90	99.3	0	52
Zn	15.12	8.66	12.95	1.77	3.00	5.65	13.00	31.35	46.00	99.3	0	52

LV0010R Rucava Latvia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Cd	0.17	0.15	0.10	3.18	0.01	0.01	0.13	0.53	0.55	98.1	2	52
Cu	0.82	0.46	0.65	2.16	0.03	0.16	0.73	1.69	1.79	100.0	1	53
Mn	4.55	5.08	2.72	2.88	0.12	0.33	2.62	17.75	23.15	98.1	1	52
Ni	0.81	0.63	0.62	2.10	0.09	0.14	0.72	1.85	3.92	100.0	2	53
Pb	4.44	5.39	2.14	4.18	0.01	0.12	2.31	18.10	28.27	100.0	1	53
Zn	21.19	20.32	11.37	4.34	0.03	0.33	14.85	70.69	89.99	98.1	3	52

LV0016R Zoseni Latvia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.29	0.25	0.22	2.23	0.01	0.07	0.21	0.71	1.64	100.0	2	53
Cd	0.13	0.10	0.10	2.38	0.01	0.02	0.10	0.39	0.45	100.0	1	53
Cu	0.78	0.54	0.64	1.86	0.10	0.25	0.63	1.98	3.20	100.0	0	53
Mn	9.41	11.99	5.09	3.05	0.17	1.04	4.07	38.81	54.00	100.0	1	53
Ni	0.74	0.56	0.56	2.28	0.02	0.16	0.61	2.50	2.74	96.2	5	51
Pb	2.69	2.71	1.90	2.38	0.16	0.25	1.87	10.26	14.81	100.0	0	53
Zn	10.97	6.99	9.28	1.81	1.28	3.23	9.21	27.89	37.79	100.0	0	53

NL0009R Kollumerwaard Netherlands

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.48	0.44	0.33	2.47	0.04	0.09	0.37	1.47	2.58	50.0	33	183
Cd	0.15	0.16	0.08	2.98	0.02	0.02	0.09	0.50	0.81	50.0	49	183
Ni	1.68	1.44	1.29	1.97	0.70	0.70	1.11	4.89	8.46	50.0	79	183
Pb	6.27	6.00	3.84	2.99	0.20	0.47	4.68	18.91	30.08	50.0	0	183
Zn	18.52	15.35	14.75	1.93	0.00	7.70	12.92	47.29	105.31	50.0	73	183

NO0001R Birkenes Norway

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.21	0.14	0.14	2.23	0.02	0.06	0.15	0.51	0.64	95.9	42	102
Cd	0.04	0.05	0.02	2.66	0.00	0.01	0.02	0.15	0.30	95.9	22	102
Co	0.02	0.02	0.02	2.08	0.00	0.00	0.01	0.06	0.11	95.9	61	102
Cr	0.29	0.41	0.25	2.68	0.07	0.07	0.45	1.24	2.17	95.9	100	102
Cu	0.84	1.12	0.46	2.89	0.04	0.10	0.43	3.77	6.87	95.9	47	102
Ni	0.59	0.51	0.40	2.76	0.02	0.10	0.49	1.85	2.41	95.9	32	102
Pb	1.63	1.78	0.87	2.78	0.14	0.15	0.91	5.75	11.08	95.9	23	102
V	0.72	0.61	0.40	2.88	0.02	0.10	0.51	2.04	3.16	95.9	24	102
Zn	3.87	3.27	2.62	2.66	0.19	0.45	2.75	11.26	14.40	95.9	16	102
Hg												

NO0042G Zeppelin, Spitsbergen Norway

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.07	0.12	0.03	3.32	0.01	0.01	0.02	0.29	0.76	28.1	24	49
Cd	0.02	0.02	0.01	5.24	0.00	0.00	0.01	0.07	0.11	28.4	19	50
Co	0.04	0.12	0.01	3.15	0.00	0.00	0.01	0.11	0.87	28.4	4	50
Cr	0.11	0.08	0.07	2.38	0.02	0.02	0.07	0.29	0.37	28.4	39	50
Cu	0.31	0.38	0.19	2.66	0.01	0.03	0.20	1.46	1.97	28.4	12	50
Hg	1.50	0.19	1.49	1.15	0.36	1.22	1.48	1.82	2.48	85.1	0	7477
Mn	0.40	0.33	0.24	2.74	0.02	0.04	0.27	1.13	1.46	28.4	0	50
Ni	0.10	0.10	0.06	2.70	0.01	0.01	0.07	0.27	0.60	28.4	15	50
Pb	0.63	0.86	0.24	4.54	0.02	0.02	0.28	2.61	4.53	28.4	1	50
V	0.08	0.07	0.05	2.49	0.01	0.02	0.05	0.23	0.34	28.4	15	50
Zn	4.12	12.98	1.05	3.65	0.14	0.18	0.85	21.37	85.63	28.1	24	49

NO0090R Alomar,Andøya Norway

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Hg	1.66	0.17	1.65	1.11	0.64	1.36	1.67	1.90	2.09	67.0	0	5885

PL0005R Diabla Gora Poland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
Hg	1.80	1.73	0.82	4.78	0.04	0.04	1.72	5.20	7.68	13.4	3	49

SE0014R Råö Sweden

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.53	0.26	0.52	1.54	0.25	0.25	0.52	1.06	1.06	97.5	0	18
Cd	0.11	0.07	0.10	1.81	0.04	0.04	0.11	0.24	0.24	97.5	0	18
Ni	1.80	0.54	1.72	1.36	1.11	1.11	1.81	2.71	2.71	97.5	0	18
Pb	3.81	2.58	3.36	1.79	1.31	1.31	3.01	10.99	10.99	97.5	0	18
Hg (amalg_tube)	1.62	0.25	1.60	1.15	1.20	1.30	1.60	2.02	3.00	26.2	0	9
Hg (tub_denuder)	13.23	8.88	11.03	1.81	2.70	4.50	10.55	31.02	50.00	23.5	0	8

SK0002R Chopok Slovakia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.19	0.14	0.14	2.31	0.04	0.04	0.17	0.54	0.63	99.7	12	53
Cd	0.07	0.05	0.05	2.46	0.01	0.01	0.06	0.19	0.23	89.6	0	48
Cr	1.05	1.15	0.43	5.32	0.03	0.03	0.79	4.08	4.75	90.2	10	48
Cu	0.41	0.45	0.17	4.49	0.01	0.01	0.28	1.41	1.78	99.7	15	53
Mn	1.47	1.05	1.09	2.35	0.18	0.21	1.32	3.68	3.82	95.9	0	51
Ni	0.60	0.70	0.30	3.58	0.02	0.02	0.33	2.27	3.24	95.9	2	51
Pb	2.37	1.75	1.66	2.56	0.20	0.29	1.99	6.09	6.94	95.9	0	51
Zn	5.07	4.75	3.18	2.71	0.65	0.70	2.10	15.06	15.23	97.8	12	52

SK0004R Stara Lesna Slovakia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.66	0.41	0.52	2.30	0.01	0.13	0.59	1.45	1.95	84.2	1	44
Cd	0.25	0.15	0.21	1.78	0.05	0.08	0.21	0.60	0.70	86.1	0	45
Cr	1.38	1.00	0.98	2.56	0.03	0.26	1.34	3.79	4.40	78.4	1	41
Cu	1.69	0.99	1.44	1.74	0.30	0.69	1.37	4.29	4.65	84.2	0	44
Mn	4.01	1.21	3.83	1.39	1.46	2.02	3.88	6.21	6.32	84.2	0	44
Ni	0.80	0.55	0.61	2.27	0.06	0.07	0.66	2.25	2.31	79.8	0	42
Pb	8.48	3.67	7.72	1.55	2.73	3.59	7.94	16.83	18.15	86.1	0	45
Zn	16.46	9.51	13.40	2.12	0.60	4.29	15.47	38.09	42.52	84.2	1	44

SK0005R Liesek Slovakia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	1.94	1.61	1.45	2.15	0.42	0.51	1.21	5.86	6.31	98.9	0	53
Cd	0.41	0.20	0.38	1.65	0.14	0.16	0.40	0.91	1.08	97.0	0	52
Cr	0.60	0.41	0.41	3.06	0.03	0.03	0.56	1.31	2.07	98.9	5	53
Cu	2.06	0.66	1.98	1.36	0.93	1.18	2.02	3.37	3.97	97.0	0	52
Mn	20.21	11.88	16.57	1.89	4.37	5.45	16.60	42.19	45.40	93.2	0	50
Ni	0.72	0.51	0.58	1.95	0.09	0.16	0.58	2.01	2.48	95.1	0	51
Pb	11.76	5.30	11.11	1.53	3.48	5.13	11.64	21.74	34.51	95.1	0	51
Zn	31.00	15.01	28.72	1.55	11.68	13.54	28.46	72.16	79.99	97.0	0	52

SK0006R Starina Slovakia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.60	0.35	0.50	2.00	0.03	0.16	0.56	1.35	1.64	90.4	0	48
Cd	0.51	0.39	0.41	2.02	0.09	0.13	0.37	1.53	1.71	88.5	0	47
Cr	0.62	0.42	0.49	2.15	0.03	0.10	0.51	1.67	2.27	98.6	1	52
Cu	1.73	0.84	1.53	1.68	0.32	0.57	1.66	3.72	4.21	96.7	0	51
Mn	3.86	1.47	3.59	1.47	1.71	1.76	3.73	6.70	8.27	94.8	0	50
Ni	0.71	0.41	0.59	2.07	0.03	0.14	0.70	1.72	1.91	98.6	1	52
Pb	12.80	6.88	10.94	1.97	0.57	3.15	11.52	28.70	31.09	86.6	0	46
Zn	17.71	7.07	16.46	1.53	5.41	6.39	17.05	31.10	35.95	90.4	0	48

SK0007R Topoliniky Slovakia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
As	0.98	0.65	0.76	2.18	0.12	0.16	0.96	2.34	2.87	96.7	0	51
Cd	0.29	0.20	0.24	1.96	0.07	0.07	0.27	0.75	1.09	92.3	0	49
Cr	1.23	0.66	1.06	1.91	0.05	0.40	1.13	2.75	3.25	94.3	0	50
Cu	2.99	1.12	2.62	2.11	0.03	1.52	2.89	5.12	5.88	96.7	1	51
Mn	6.49	2.39	6.07	1.45	2.46	3.40	6.06	10.68	14.17	96.7	0	51
Ni	1.12	0.56	0.97	1.77	0.17	0.31	1.00	2.27	2.43	96.7	0	51
Pb	11.93	7.21	9.44	2.31	0.38	2.51	10.94	29.85	32.82	96.7	0	51
Zn	17.29	11.69	12.99	2.34	1.35	2.03	15.82	34.55	63.74	96.7	2	51

Annex 3

Annual statistics for POPs in precipitation

BE0004R Knokke Belgium

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Precip	-	31.8	136.2	797.5	94.0	0	12
alpha_HCH	0.50	0.50	0.50	398.7	100.0	12	12
dieldrin	1.00	1.00	1.00	797.5	100.0	12	12
endrin	1.50	1.50	1.50	1196.2	100.0	12	12
gamma_HCH	3.90	1.00	15.00	3110.7	100.0	6	12
heptachlor	1.00	1.00	1.00	797.5	100.0	12	12
pp_DDD	0.50	0.50	0.50	398.7	100.0	12	12
pp_DDE	1.00	1.00	1.00	797.5	100.0	12	12

CZ0003R Kosetice Czech Republic

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
PCB_101	0.064	0.050	0.800	40.8	91.3	83	90
PCB_118	0.051	0.050	0.200	32.1	91.3	89	90
PCB_138	0.073	0.050	1.300	46.2	91.3	80	90
PCB_153	0.078	0.050	1.300	49.3	91.3	76	90
PCB_180	0.089	0.050	2.300	56.8	91.3	74	90
PCB_28	0.074	0.050	0.500	47.2	91.3	73	90
PCB_52	0.054	0.050	0.200	34.3	91.3	88	90
Precip	-	0.0	49.3	635.1	99.9	188	366
benz_a_anthracene	4.22	0.10	37.00	2678.7	91.3	1	90
benzo_a_pyrene	4.624	0.100	35.100	2937.1	91.3	1	90
benzo_b_fluoranthene	7.67	0.10	57.60	4873.3	91.3	0	90
benzo_k_fluoranthene	4.33	0.10	28.50	2748.0	91.3	0	90
chrysene	10.53	0.10	72.70	6687.5	91.3	0	90
dibenzo_ah_anthracene	0.42	0.10	4.30	264.9	91.3	39	90
gamma_HCH	3.32	0.05	13.90	2106.0	91.3	13	90
phenanthrene	22.17	2.30	126.00	14079.7	91.3	0	90
pp_DDD	0.32	0.05	3.50	201.6	91.3	50	90
pp_DDE	0.28	0.05	4.30	175.1	91.3	45	90
pp_DDT	0.33	0.05	2.70	211.1	91.3	57	90
pyrene	17.10	0.70	121.80	10860.8	91.3	0	90

DE0001R Westerland Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
HCB	0.24	0.01	1.65	132.4	100.0	0	12
PCB_101	0.107	0.030	0.260	59.1	94.2	0	11
PCB_118	0.110	0.020	0.530	61.0	100.0	0	12
PCB_138	0.317	0.040	2.740	175.7	100.0	0	12
PCB_153	0.170	0.020	1.270	94.5	100.0	0	12
PCB_180	0.132	0.020	0.810	73.3	100.0	0	12
PCB_28	0.130	0.020	0.310	72.1	94.2	0	11
PCB_52	0.069	0.010	0.150	38.1	94.2	0	11
Precip	-	10.5	90.7	698.6	99.7	0	12
alpha_HCH	0.35	0.11	0.46	195.4	100.0	0	12
anthracene	0.89	0.39	3.66	494.4	100.0	0	12
benz_a_anthracene	1.47	0.19	5.83	817.2	100.0	0	12
benzo_a_pyrene	1.453	0.240	6.120	805.7	100.0	0	12
benzo_b_fluoranthene	7.63	2.20	24.70	4230.4	100.0	0	12
benzo_ghi_perylene	2.24	0.65	7.98	1243.9	100.0	0	12
chrysene	5.08	0.80	13.70	2817.2	100.0	0	12
dibenzo_ah_anthracene	0.48	0.15	1.59	338.3	100.0	0	12
dieldrin	0.13	0.07	0.26	72.0	100.0	0	12
endrin	0.07	0.04	0.48	40.1	100.0	0	12
fluoranthene	10.21	4.90	23.80	5658.6	100.0	0	12
gamma_HCH	1.70	0.83	5.49	943.0	100.0	0	12
heptachlor	0.03	0.01	0.18	15.4	100.0	0	12
inden_123cd_pyrene	1.92	0.56	4.73	1065.3	100.0	0	12
op_DDD	0.03	0.01	0.09	21.8	100.0	0	12
op_DDE	0.05	0.01	0.16	33.5	100.0	0	12
op_DDT	0.13	0.03	0.45	91.6	87.3	0	11
phenanthrene	24.42	4.30	144.00	13536.2	100.0	0	12
pp_DDD	0.06	0.01	0.25	40.3	100.0	0	12
pp_DDE	0.15	0.01	0.67	102.0	100.0	0	12
pp_DDT	0.21	0.04	0.60	145.5	100.0	0	12
pyrene	6.51	1.70	17.50	3607.9	100.0	0	12

DE0009R Zingst Germany

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
HCB	0.04	0.01	0.08	19.6	89.3	0	11
PCB_101	0.160	0.030	0.650	90.0	100.0	0	12
PCB_118	0.097	0.010	0.370	54.4	100.0	0	12
PCB_138	0.296	0.030	1.040	166.0	100.0	0	12
PCB_153	0.180	0.030	0.690	101.1	100.0	0	12
PCB_180	0.137	0.010	0.650	76.8	100.0	0	12
PCB_28	0.065	0.020	0.150	36.6	89.3	0	11
PCB_52	0.094	0.010	0.490	52.5	100.0	0	12
Precip	-	25.6	67.0	561.6	99.2	0	12
alpha_HCH	0.39	0.25	0.61	220.6	100.0	0	12
anthracene	1.52	0.47	2.96	855.2	100.0	0	12
benz_a_anthracene	2.77	0.53	6.59	1555.9	100.0	0	12
benzo_a_pyrene	2.423	0.200	6.900	1360.6	100.0	0	12
benzo_b_fluoranthene	13.32	1.60	31.30	7479.0	100.0	0	12
benzo_ghi_perylene	3.48	0.27	9.02	1956.0	100.0	0	12
chrysene	10.12	1.10	22.70	5680.8	100.0	0	12
dibenzo_ah_anthracene	0.70	0.21	1.51	395.3	100.0	0	12
dieldrin	0.07	0.03	0.12	41.0	100.0	0	12
endrin	0.07	0.04	0.13	39.1	100.0	0	12
fluoranthene	17.67	4.10	40.50	9923.6	100.0	0	12
gamma_HCH	2.14	1.38	3.58	1201.8	100.0	0	12
heptachlor	0.03	0.02	0.07	18.0	100.0	0	12
inden_123cd_pyrene	3.14	0.54	8.80	1761.5	100.0	0	12
op_DDD	0.04	0.01	0.12	23.1	100.0	0	12
op_DDE	0.02	0.01	0.03	9.2	100.0	0	12
op_DDT	0.14	0.04	0.31	77.2	100.0	0	12
phenanthrene	23.43	4.70	84.00	13159.6	100.0	0	12
pp_DDD	0.10	0.03	0.29	58.7	100.0	0	12
pp_DDE	0.13	0.04	0.35	75.3	100.0	0	12
pp_DDT	0.34	0.05	1.01	191.7	100.0	0	12
pyrene	11.77	3.20	26.60	6611.2	100.0	0	12

FI0096R Pallas Finland

January 2004 - December 2004. Precipitation + dry deposition (ng/m^3 day)

Component	W. mean	Min	Max	% anal	Num bel	Num sampl
PCB_101	0.080	0.040	0.140	13.4	0	7
PCB_118	0.071	0.040	0.110	13.4	0	7
PCB_138	0.074	0.060	0.090	13.4	0	7
PCB_153	0.137	0.080	0.170	13.4	0	7
PCB_180	0.044	0.005	0.080	13.4	1	7
PCB_28	0.005	0.005	0.005	23.0	12	12
PCB_52	0.056	0.005	0.110	13.4	2	7
alpha_HCH	0.24	0.01	2.00	23.0	0	12
anthracene	0.75	0.00	4.00	23.0	0	12
benz_a_anthracene	5.08	0.00	26.00	23.0	0	12
benzo_a_pyrene	7.417	0.000	37.000	23.0	0	12
benzo_b_flouranthene	13.17	1.00	54.00	23.0	0	12
benzo_ghi_perylene	10.58	1.00	48.00	23.0	0	12
benzo_k_fluoranthene	5.33	0.00	25.00	23.0	0	12
fluoranthene	25.58	2.00	110.00	23.0	0	12
gamma_HCH	0.23	0.01	1.50	21.0	0	11
inden_123cd_pyrene	9.00	0.00	41.00	23.0	0	12
phenanthrene	18.92	3.00	78.00	23.0	0	12
pyrene	18.50	1.00	88.00	23.0	0	12

IS0091R Storhofdi Iceland

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
HCB	0.02	0.01	0.12	12.2	100.0	0	25
PCB_101	0.004	0.001	0.040	2.9	100.0	20	25
PCB_105	0.00	0.00	0.01	1.9	100.0	25	25
PCB_118	0.004	0.002	0.023	2.9	100.0	22	25
PCB_138	0.006	0.002	0.063	4.1	100.0	18	25
PCB_153	0.009	0.002	0.092	6.7	100.0	10	25
PCB_156	0.00	0.00	0.01	2.4	100.0	25	25
PCB_180	0.005	0.002	0.056	3.7	100.0	19	25
PCB_28	0.045	0.004	0.191	32.3	100.0	24	25
PCB_31	0.042	0.003	0.184	29.7	100.0	24	25
PCB_52	0.013	0.001	0.054	9.0	100.0	21	25
Precip	-	8.0	64.0	711.0	100.0	0	25
alpha_HCH	0.09	0.05	0.18	67.0	100.0	0	25
beta_HCH	0.01	0.00	0.02	4.3	100.0	25	25
cis_CD	0.01	0.00	0.01	3.5	100.0	9	25
dieldrin	0.03	0.02	0.06	20.5	100.0	0	25
gamma_HCH	0.06	0.02	0.12	39.4	100.0	0	25
op_DDT	0.01	0.00	0.03	5.0	100.0	11	25
pp_DDD	0.01	0.00	0.02	4.2	100.0	15	25
pp_DDE	0.00	0.00	0.01	3.0	100.0	21	25
pp_DDT	0.01	0.00	0.04	6.2	100.0	19	25
trans_CD	0.00	0.00	0.01	1.8	100.0	19	25
trans_NO	0.00	0.00	0.01	2.6	100.0	13	25

NL0091R De Zilk Netherlands

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
Precip	-	25.9	150.3	926.8	100.0	0	14
gamma_HCH	5.36	5.00	11.00	4966.9	100.0	13	14

NO0001R Birkenes Norway

January 2004 - December 2004

Component	W. mean	Min	Max	Dep	% anal	Num bel	Num sampl
HCB	0.12	0.02	1.23	160.5	100.0	0	55
PCB_101	0.039	0.005	0.184	54.7	100.0	2	55
PCB_118	0.025	0.004	0.136	34.6	100.0	3	55
PCB_138	0.028	0.005	0.186	39.6	100.0	0	55
PCB_153	0.048	0.007	0.259	67.9	100.0	0	55
PCB_180	0.014	0.001	0.136	19.4	100.0	5	55
PCB_28	0.016	0.005	0.082	22.5	100.0	0	55
PCB_52	0.027	0.006	0.152	38.0	100.0	0	55
Precip	-	0.1	82.7	1399.2	72.5	0	55
alpha_HCH	0.38	0.22	1.19	537.3	100.0	0	55
gamma_HCH	0.88	0.13	5.48	1229.3	100.0	0	55

SE0012R Aspvreten Sweden

January 2004 - December 2004. Precipitation + dry deposition (ng/m^3 day).

Component	W. mean	Min	Max	Dep	Num bel	Num sampl
PCB_101	0.019	0.010	0.140	1.5	0	11
PCB_118	0.010	0.010	0.110	0.8	0	11
PCB_138	0.022	0.010	0.150	1.7	0	11
PCB_153	0.021	0.010	0.130	1.7	0	11
PCB_180	0.023	0.010	0.100	1.8	0	11
PCB_28	0.041	0.005	0.150	3.2	1	11
PCB_52	0.026	0.005	0.110	2.0	2	11
alpha_HCH	0.47	0.02	2.90	43.7	4	10
anthracene	1.07	0.00	7.00	120.0	0	12
benzo_a_pyrene	3.375	1.000	14.000	424.0	0	12
benzo_ghi_perylene	1.88	1.00	13.00	214.0	0	12
fluoranthene	19.38	0.00	136.00	1875.0	0	12
gamma_HCH	0.82	0.02	4.10	81.8	1	11
inden_123cd_pyrene	2.79	1.00	24.00	367.0	0	12
phenanthrene	65.29	6.00	430.00	7194.0	0	12
pyrene	11.34	1.00	29.00	1325.0	0	12

SE0014R Råö Sweden

January 2004 - December 2004. Precipitation + dry deposition (ng/m^3 day).

Component	W. mean	Min	Max	Dep	Num bel	Num sampl
PCB_101	0.094	0.050	0.170	31.6	0	11
PCB_118	0.087	0.030	0.240	29.2	0	11
PCB_138	0.353	0.090	0.770	118.4	0	11
PCB_153	0.331	0.120	0.670	111.1	0	11
PCB_180	0.221	0.050	0.390	74.1	0	11
PCB_28	0.005	0.005	0.005	1.7	11	11
PCB_52	0.152	0.005	0.440	51.3	1	11
alpha_HCH	0.34	0.17	0.53	104.6	0	10
anthracene	0.65	0.00	1.00	218.0	0	11
benz_a_anthracene	3.42	1.00	8.00	1031.0	0	10
benzo_a_pyrene	4.966	2.000	9.000	1673.0	0	11
benzo_b_flouranthene	7.50	2.00	17.00	2538.0	0	11
benzo_ghi_perylene	6.51	3.00	11.00	2196.0	0	11
benzo_k_fluoranthene	3.30	1.00	7.00	1117.0	0	11
fluoranthene	19.71	6.00	39.00	6656.0	0	11
gamma_HCH	0.84	0.23	1.50	256.1	0	10
inden_123cd_pyrene	5.50	2.00	13.00	1861.0	0	11
phenanthrene	16.04	5.00	31.00	5408.0	0	11
pyrene	13.23	4.00	28.00	4467.0	0	11

Annex 4

Annual statistics for POPs in air

CZ0003R Kosetice Czech Republic

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PCB_101	6.736	6.341	4.393	2.740	0.500	0.500	4.750	20.300	32.250	14.2	0	52
PCB_118	2.303	3.522	1.139	2.935	0.500	0.500	0.500	9.600	19.250	14.2	28	52
PCB_138	5.779	3.099	5.014	1.731	1.250	2.250	5.000	12.050	15.000	14.2	0	52
PCB_153	4.769	3.278	3.822	2.014	0.500	1.250	4.000	12.700	16.000	14.2	1	52
PCB_180	2.462	2.845	1.715	2.205	0.500	0.500	1.250	8.050	17.250	14.2	6	52
PCB_28	9.562	5.237	7.604	2.286	0.500	0.987	9.000	19.600	21.250	14.2	0	52
PCB_52	15.341	6.956	13.887	1.582	4.250	6.650	14.500	29.788	39.000	14.2	0	52
alpha_HCH	11.57	5.75	10.30	1.64	3.25	4.25	10.12	23.14	29.25	14.2	0	52
anthracene	0.24	0.33	0.11	3.62	0.01	0.02	0.12	1.03	1.52	14.2	0	52
benz_a_anthracene	0.25	0.41	0.09	5.00	0.01	0.01	0.11	0.82	2.66	14.2	0	52
benzo_a_pyrene	0.279	0.529	0.092	5.191	0.002	0.005	0.110	1.096	3.486	14.2	2	52
fluoranthene	1.98	1.90	1.15	3.18	0.10	0.18	1.32	5.42	9.06	14.2	0	52
fluorene	2.71	2.75	1.52	3.21	0.15	0.25	1.68	8.90	10.87	14.2	0	52
gamma_HCH	23.05	19.15	18.68	1.88	5.00	6.30	19.12	48.05	133.00	14.2	0	52
inden_123cd_pyrene	0.30	0.54	0.09	5.67	0.00	0.00	0.13	1.20	3.45	14.2	2	52
phenanthrene	5.89	5.09	3.80	2.76	0.44	0.67	4.09	17.01	18.85	14.2	0	52
pp_DDD	2.30	2.95	1.24	2.89	0.50	0.50	0.88	9.95	12.25	14.2	26	52
pp_DDE	21.45	10.70	19.28	1.59	7.00	8.30	18.62	46.85	58.00	14.2	0	52
pp_DDT	7.52	5.41	5.97	1.99	1.25	1.90	5.25	19.65	25.00	14.2	0	52
pyrene	1.28	1.37	0.68	3.45	0.06	0.11	0.91	3.75	7.33	14.2	0	52

ES0008R Niembro Spain

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
anthracene	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.01	0.01	1.6	0	6
benz_a_anthracene	0.08	0.01	0.07	1.17	0.07	0.07	0.08	0.08	0.08	0.5	4	2
benzo_a_pyrene	0.046	0.026	0.042	1.563	0.029	0.029	0.038	0.097	0.097	1.6	0	6
benzo_b_fluoranthene	0.10	0.12	0.07	2.44	0.03	0.03	0.05	0.34	0.34	1.6	0	6
benzo_ghi_perylene	0.04	0.04	0.03	2.27	0.01	0.01	0.03	0.13	0.13	1.6	0	6
benzo_k_fluoranthene	0.05	0.04	0.04	1.65	0.03	0.03	0.04	0.12	0.12	1.6	0	6
chrysene	0.06	0.05	0.05	1.78	0.03	0.03	0.04	0.15	0.15	1.6	0	6
dibenzo_ah_anthracene	0.04	0.01	0.04	1.17	0.03	0.03	0.04	0.05	0.05	1.6	0	6
fluoranthene	0.08	0.12	0.05	3.00	0.01	0.01	0.04	0.32	0.32	1.6	0	6
inden_123cd_pyrene	0.04	0.05	0.02	2.89	0.01	0.01	0.02	0.14	0.14	1.6	0	6
phenanthrene	0.05	0.04	0.04	1.85	0.02	0.02	0.03	0.12	0.12	1.6	0	6
pyrene	0.10	0.09	0.03	8.71	0.00	0.00	0.09	0.22	0.22	1.6	0	6

FI0096R Pallas Finland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PCB_101	0.733	0.526	0.594	1.961	0.170	0.170	0.555	1.800	1.800	23.0	0	12
PCB_118	0.265	0.124	0.241	1.577	0.130	0.130	0.250	0.540	0.540	21.0	0	11
PCB_138	0.268	0.106	0.251	1.461	0.150	0.150	0.220	0.440	0.440	23.0	0	12
PCB_153	0.357	0.155	0.331	1.499	0.190	0.190	0.330	0.700	0.700	21.0	0	11
PCB_180	0.060	0.035	0.048	2.355	0.005	0.005	0.051	0.130	0.130	21.0	1	11
PCB_28	1.929	1.395	1.597	1.836	0.720	0.720	1.250	5.200	5.200	23.0	0	12
PCB_52	1.915	1.530	1.495	2.040	0.500	0.500	1.300	5.400	5.400	23.0	0	12
alpha_HCH	9.42	4.12	8.58	1.58	4.00	4.00	8.50	15.00	15.00	23.0	0	12
anthracene	0.01	0.00	0.00	2.07	0.00	0.00	0.00	0.01	0.01	23.0	0	12
benz_a_anthracene	0.03	0.08	0.01	4.71	0.00	0.00	0.01	0.26	0.26	19.1	0	10
benzo_a_pyrene	0.033	0.044	0.015	3.903	0.003	0.003	0.016	0.140	0.140	21.0	0	11
benzo_b_fluoranthene	0.04	0.06	0.02	3.01	0.00	0.00	0.02	0.22	0.22	23.0	0	12
benzo_ghi_perylene	0.03	0.03	0.01	3.29	0.00	0.00	0.01	0.12	0.12	23.0	0	12
benzo_k_fluoranthene	0.04	0.06	0.02	3.01	0.00	0.00	0.02	0.22	0.22	23.0	0	12
chrysene_triphenylene	0.08	0.10	0.04	3.04	0.01	0.01	0.03	0.30	0.30	19.1	0	10
fluoranthene	0.15	0.14	0.11	2.21	0.03	0.03	0.09	0.50	0.50	23.0	0	12
gamma_HCH	3.08	1.56	2.73	1.69	1.00	1.00	2.50	6.00	6.00	23.0	0	12
inden_123cd_pyrene	0.01	0.01	0.01	2.30	0.00	0.00	0.01	0.04	0.04	23.0	0	12
phenanthrene	0.47	0.29	0.39	1.84	0.15	0.15	0.39	1.00	1.00	23.0	0	12
pp_DDD	0.08	0.06	0.05	3.28	0.01	0.01	0.07	0.19	0.19	23.0	2	12
pp_DDE	0.52	0.25	0.47	1.64	0.17	0.17	0.47	1.00	1.00	23.0	0	12
pp_DDT	0.18	0.11	0.16	1.70	0.09	0.09	0.14	0.37	0.37	23.0	0	12
pyrene	0.09	0.09	0.06	2.50	0.01	0.01	0.05	0.32	0.32	23.0	0	12

GB0014R High Muffles United Kingdom

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PCB_101	1.422	0.818	1.272	1.716	0.700	0.700	1.200	2.600	2.600	99.1	0	4
PCB_118	0.954	0.415	0.867	1.726	0.395	0.395	1.010	1.400	1.400	99.1	1	4
PCB_138	1.125	0.709	0.957	1.972	0.400	0.400	1.000	2.100	2.100	99.1	0	4
PCB_153	1.200	0.572	1.095	1.657	0.600	0.600	1.150	1.900	1.900	99.1	0	4
PCB_180	0.250	0.100	0.238	1.414	0.200	0.200	0.200	0.400	0.400	99.1	0	4
PCB_28	12.645	5.723	11.511	1.699	5.600	5.600	13.000	19.000	19.000	99.1	0	4
PCB_52	7.453	4.789	6.270	2.028	2.500	2.500	6.650	14.000	14.000	99.1	0	4
anthracene	0.13	0.11	0.09	3.16	0.02	0.02	0.12	0.26	0.26	99.1	0	4
benz_a_anthracene	0.03	0.02	0.02	2.30	0.01	0.01	0.01	0.06	0.06	99.1	2	4
benzo_a_pyrene	0.023	0.024	0.017	2.345	0.010	0.010	0.011	0.059	0.059	99.1	1	4
benzo_ghi_perylene	0.03	0.04	0.02	2.68	0.01	0.01	0.01	0.08	0.08	99.1	1	4
chrysene	0.05	0.05	0.04	2.84	0.01	0.01	0.03	0.13	0.13	99.1	1	4
fluoranthene	0.54	0.20	0.51	1.46	0.34	0.34	0.52	0.79	0.79	99.1	0	4
inden_123cd_pyrene	0.02	0.03	0.02	2.81	0.00	0.00	0.01	0.07	0.07	99.1	1	4
phenanthrene	3.15	1.18	2.94	1.59	1.50	1.50	3.40	4.30	4.30	99.1	0	4
pyrene	0.30	0.15	0.27	1.65	0.16	0.16	0.28	0.49	0.49	99.1	0	4

IS0091R Storhofdi Iceland

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HCB	2.68	1.03	2.57	1.48	1.09	1.14	2.74	5.16	5.62	100.0	0	25
PCB_101	0.650	0.224	0.585	1.533	0.220	0.224	0.600	1.001	1.010	100.0	1	25
PCB_105	0.09	0.02	0.09	1.17	0.07	0.07	0.09	0.14	0.15	100.0	25	25
PCB_118	0.187	0.059	0.182	1.269	0.135	0.141	0.170	0.385	0.400	100.0	23	25
PCB_138	0.137	0.070	0.130	1.514	0.070	0.073	0.155	0.351	0.400	100.0	24	25
PCB_153	0.247	0.105	0.231	1.442	0.155	0.156	0.235	0.529	0.550	100.0	12	25
PCB_156	0.13	0.04	0.12	1.41	0.07	0.07	0.11	0.20	0.20	100.0	25	25
PCB_180	0.165	0.046	0.158	1.361	0.080	0.083	0.165	0.265	0.280	100.0	18	25
PCB_28	4.520	1.249	4.447	1.259	3.150	3.258	4.305	8.399	9.140	100.0	13	25
PCB_31	3.494	0.926	3.468	1.289	1.920	1.956	3.565	6.141	6.550	100.0	13	25
PCB_52	2.239	0.858	2.033	1.552	1.045	1.048	2.480	3.785	4.040	100.0	8	25
alpha_HCH	4.98	1.46	4.78	1.39	2.34	2.38	5.39	7.38	7.40	100.0	0	25
beta_HCH	0.33	0.21	0.27	1.77	0.15	0.16	0.23	0.81	0.83	100.0	18	25
cis_CD	0.54	0.15	0.54	1.27	0.39	0.39	0.53	0.96	1.04	100.0	0	25
dieldrin	0.57	0.18	0.54	1.41	0.22	0.24	0.54	0.96	0.96	100.0	0	25
gamma_HCH	7.57	1.46	7.39	1.22	4.81	4.91	7.42	9.99	10.17	100.0	0	25
op_DDT	0.13	0.05	0.12	1.47	0.07	0.08	0.14	0.21	0.21	100.0	25	25
pp_DDD	0.19	0.07	0.18	1.28	0.14	0.14	0.17	0.43	0.52	100.0	24	25
pp_DDE	0.18	0.04	0.18	1.19	0.14	0.14	0.17	0.31	0.34	100.0	24	25
pp_DDT	0.24	0.31	0.20	1.64	0.14	0.14	0.17	1.32	1.72	100.0	24	25
trans_CD	0.19	0.07	0.18	1.46	0.09	0.09	0.19	0.33	0.34	100.0	4	25
trans_NO	0.29	0.10	0.27	1.44	0.10	0.12	0.26	0.49	0.49	100.0	1	25

LV0010R Rucava Latvia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
benzo_a_pyrene	0.163	0.203	0.065	4.570	0.012	0.012	0.063	0.640	0.640	100.0	0	12

LV0016R Zoseni Latvia

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
benzo_a_pyrene	0.180	0.267	0.078	3.759	0.014	0.014	0.070	0.800	0.800	100.0	0	12

NO0001R Birkenes Norway

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HCB	63.90	13.45	62.80	1.20	44.04	47.92	61.97	82.33	133.76	13.7	0	50
PCB_101	0.821	0.411	0.739	1.578	0.248	0.388	0.685	1.677	2.398	13.7	0	50
PCB_118	0.317	0.228	0.260	1.853	0.062	0.107	0.248	0.758	1.284	13.7	0	50
PCB_138	0.364	0.249	0.303	1.823	0.069	0.122	0.286	1.004	1.225	13.7	0	50
PCB_153	0.650	0.540	0.513	1.943	0.110	0.195	0.478	1.896	2.932	13.7	0	50
PCB_180	0.195	0.183	0.144	2.122	0.029	0.047	0.129	0.631	0.977	13.7	0	50
PCB_28	1.636	0.680	1.510	1.497	0.625	0.838	1.458	3.172	3.507	13.7	0	50
PCB_52	1.396	0.596	1.287	1.495	0.510	0.746	1.211	2.629	3.260	13.7	0	50
alpha_HCH	16.52	9.55	14.43	1.67	6.49	6.72	13.48	37.74	51.89	12.3	0	45
gamma_HCH	10.14	8.14	7.76	2.06	2.19	2.53	6.36	29.49	36.97	12.3	0	45

NO0042G Zeppelin, Spitsbergen Norway

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
HCB	65.12	6.28	64.74	1.10	54.03	55.05	65.97	75.40	79.55	29.6	0	54
N1methylphenanthrene	0.01	0.00	0.00	1.90	0.00	0.00	0.00	0.01	0.02	28.9	0	52
N2methylanthracene	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	28.9	47	52
N2methylphenanthrene	0.01	0.01	0.01	1.82	0.00	0.00	0.01	0.02	0.03	28.9	0	52
PCB_101	0.425	0.192	0.397	1.421	0.214	0.239	0.374	0.807	1.310	29.6	0	54
PCB_105	0.04	0.04	0.04	1.71	0.01	0.02	0.03	0.10	0.34	29.6	0	54
PCB_114	0.01	0.00	0.01	1.08	0.01	0.01	0.01	0.01	0.02	29.6	52	54
PCB_118	0.142	0.102	0.123	1.622	0.049	0.063	0.115	0.309	0.733	29.6	0	54
PCB_122	0.01	0.00	0.01	1.00	0.01	0.01	0.01	0.01	0.01	29.6	53	54
PCB_123	0.01	0.00	0.01	1.09	0.01	0.01	0.01	0.01	0.02	29.6	53	54
PCB_128	0.02	0.01	0.02	1.54	0.01	0.01	0.02	0.05	0.05	29.6	5	54
PCB_138	0.121	0.065	0.109	1.563	0.045	0.057	0.101	0.308	0.353	29.6	0	54
PCB_141	0.03	0.01	0.03	1.50	0.01	0.01	0.02	0.06	0.07	29.6	0	54
PCB_149	0.206	0.086	0.193	1.418	0.094	0.116	0.181	0.397	0.592	29.6	0	54
PCB_153	0.184	0.097	0.166	1.556	0.069	0.088	0.155	0.442	0.536	29.6	0	54
PCB_156	0.01	0.00	0.01	1.24	0.01	0.01	0.01	0.02	0.02	29.6	43	54
PCB_157	0.01	0.00	0.01	1.02	0.01	0.01	0.01	0.01	0.01	29.6	54	54
PCB_167	0.01	0.00	0.01	1.02	0.01	0.01	0.01	0.01	0.01	29.6	51	54
PCB_170	0.01	0.01	0.01	1.52	0.01	0.01	0.01	0.04	0.07	29.6	24	54
PCB_18	2.045	1.135	1.900	1.409	1.170	1.260	1.801	3.817	8.693	29.6	0	54
PCB_180	0.039	0.042	0.031	1.822	0.011	0.013	0.029	0.096	0.309	29.6	2	54
PCB_183	0.01	0.01	0.01	1.48	0.01	0.01	0.01	0.03	0.07	29.6	2	54
PCB_187	0.04	0.03	0.04	1.64	0.02	0.02	0.03	0.09	0.24	29.6	0	54
PCB_189	0.01	0.00	0.01	1.10	0.01	0.01	0.01	0.01	0.02	29.6	54	54
PCB_194	0.01	0.01	0.01	1.37	0.01	0.01	0.01	0.01	0.10	29.6	52	54
PCB_206	0.01	0.01	0.01	1.25	0.01	0.01	0.01	0.01	0.05	29.6	53	54
PCB_209	0.01	0.00	0.01	1.11	0.01	0.01	0.01	0.01	0.02	29.6	51	54
PCB_28	1.969	1.633	1.696	1.601	0.892	1.045	1.518	4.883	11.321	29.6	0	54
PCB_31	1.865	1.556	1.604	1.606	0.854	0.994	1.443	4.655	10.785	29.6	0	54
PCB_33	1.45	1.34	1.20	1.71	0.54	0.68	1.10	3.89	8.96	29.6	0	54
PCB_37	0.24	0.24	0.19	1.83	0.07	0.09	0.17	0.66	1.61	29.6	0	54
PCB_47	0.51	0.33	0.46	1.51	0.27	0.27	0.43	1.12	2.35	29.6	0	54
PCB_52	1.004	0.497	0.939	1.393	0.599	0.640	0.879	1.883	3.826	29.6	0	54
PCB_66	0.32	0.33	0.26	1.66	0.15	0.16	0.23	0.91	2.27	29.6	0	54
PCB_74	0.19	0.16	0.17	1.58	0.10	0.11	0.15	0.52	1.04	29.6	0	54
PCB_99	0.17	0.09	0.15	1.53	0.07	0.07	0.14	0.33	0.57	29.6	0	54
alpha_HCH	17.12	6.78	15.77	1.49	7.12	9.32	14.27	29.24	32.00	29.6	0	54
anthanthrene	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00	0.00	28.9	44	52
anthracene	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.01	0.01	28.9	28	52
benz_a_anthracene	0.00	0.01	0.00	2.72	0.00	0.00	0.00	0.03	0.03	28.9	26	52
benzo_a_pyrene	0.003	0.006	0.001	2.431	0.001	0.001	0.001	0.023	0.032	28.9	34	52
benzo_e_pyrene	0.01	0.01	0.00	3.22	0.00	0.00	0.00	0.03	0.05	28.9	24	52
benzo_ghi_perylene	0.01	0.01	0.00	3.13	0.00	0.00	0.00	0.03	0.04	28.9	25	52
beta_HCH	0.15	0.48	0.07	2.42	0.01	0.02	0.07	0.25	3.56	29.6	4	54
biphenyl	0.41	0.61	0.13	5.70	0.01	0.01	0.14	1.83	2.57	28.9	0	52
chrysene_triphenylene	0.01	0.02	0.00	4.46	0.00	0.00	0.00	0.07	0.10	28.9	8	52
cis_CD	0.66	0.14	0.65	1.24	0.40	0.46	0.66	0.92	1.05	29.1	0	53
cis_NO	0.07	0.03	0.07	1.62	0.02	0.03	0.07	0.13	0.14	29.1	0	53
coronene	0.00	0.01	0.00	2.91	0.00	0.00	0.00	0.03	0.04	28.9	29	52
cyclopenta_cd_pyrene	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.01	0.01	28.9	41	52
dibenzo_ac_ah_anthracenes	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.01	28.9	44	52
dibenzofuran	0.52	0.64	0.23	4.07	0.03	0.03	0.24	2.04	2.77	28.9	0	52
dibenzothiophene	0.01	0.01	0.01	3.00	0.00	0.00	0.00	0.03	0.05	28.9	1	52
fluoranthene	0.03	0.05	0.01	3.59	0.00	0.00	0.01	0.16	0.24	28.9	0	52
fluorene	0.21	0.30	0.08	4.26	0.01	0.01	0.05	1.09	1.21	28.9	0	52
gamma_HCH	2.75	0.92	2.62	1.35	1.30	1.67	2.44	4.79	6.45	29.6	1	54
inden_123cd_pyrene	0.01	0.01	0.00	2.96	0.00	0.00	0.00	0.03	0.04	28.9	28	52
naphtalene	0.47	0.85	0.16	4.11	0.03	0.04	0.08	3.02	3.94	28.9	0	52
op_DDD	0.02	0.01	0.02	1.65	0.01	0.01	0.02	0.04	0.07	29.6	16	54
op_DDE	0.10	0.08	0.07	2.73	0.01	0.01	0.09	0.29	0.34	29.6	0	54
op_DDT	0.22	0.15	0.17	2.15	0.02	0.06	0.21	0.61	0.72	29.6	1	54
perylene	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	28.9	44	52
phenanthrene	0.07	0.08	0.04	2.56	0.01	0.01	0.03	0.31	0.33	28.9	0	52
pp_DDD	0.03	0.05	0.02	2.24	0.01	0.01	0.01	0.16	0.27	29.6	21	54
pp_DDE	0.55	0.51	0.38	2.51	0.08	0.09	0.42	1.80	2.36	29.6	0	54
pp_DDT	0.10	0.07	0.08	2.07	0.01	0.03	0.08	0.25	0.37	29.6	2	54
pyrene	0.02	0.03	0.01	3.72	0.00	0.00	0.01	0.11	0.16	28.9	0	52
trans_CD	0.25	0.14	0.21	1.81	0.07	0.08	0.24	0.57	0.62	29.1	0	53
trans_NO	0.56	0.14	0.55	1.28	0.34	0.35	0.54	0.82	0.97	29.1	0	53

SE0012R Aspvreten Sweden

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PCB_101	1.861	1.455	1.425	2.137	0.580	0.580	1.420	4.620	4.620	21.0	0	11
PCB_118	0.607	0.401	0.495	1.970	0.200	0.200	0.530	1.340	1.340	21.0	0	11
PCB_138	0.675	0.302	0.619	1.533	0.330	0.330	0.540	1.200	1.200	21.0	0	11
PCB_153	0.809	0.406	0.730	1.589	0.400	0.400	0.620	1.540	1.540	21.0	0	11
PCB_180	0.218	0.057	0.211	1.332	0.120	0.120	0.220	0.290	0.290	21.0	0	11
PCB_28	1.634	0.903	1.463	1.601	0.760	0.760	1.240	3.900	3.900	21.0	0	11
PCB_52	1.474	0.764	1.303	1.683	0.650	0.650	1.090	2.630	2.630	21.0	0	11
alpha_HCH	9.36	4.67	8.18	1.78	3.00	3.00	9.00	16.00	16.00	21.0	0	11
anthracene	0.01	0.02	0.01	4.75	0.00	0.00	0.00	0.06	0.06	21.0	0	11
benz_a_anthracene	0.02	0.02	0.01	2.82	0.00	0.00	0.02	0.07	0.07	21.0	0	11
benzo_a_pyrene	0.029	0.025	0.015	4.590	0.001	0.001	0.024	0.083	0.083	21.0	1	11
benzo_ghi_perylene	0.05	0.04	0.03	3.79	0.00	0.00	0.05	0.14	0.14	21.0	0	11
fluoranthene	0.66	0.83	0.32	3.70	0.04	0.04	0.40	2.64	2.64	21.0	0	11
gamma_HCH	6.91	4.76	5.56	2.00	2.00	2.00	4.00	16.00	16.00	21.0	0	11
inden_123cd_pyrene	0.06	0.06	0.03	5.88	0.00	0.00	0.06	0.21	0.21	21.0	1	11
phenanthrene	1.14	0.83	0.80	3.06	0.04	0.04	0.76	2.75	2.75	21.0	0	11
pp_DDE	3.15	3.51	2.24	2.14	1.10	1.10	1.70	12.60	12.60	21.0	0	11
pyrene	0.18	0.16	0.13	2.77	0.00	0.00	0.12	0.48	0.48	21.0	0	11

SE0014R Råö Sweden

January 2004 - December 2004

Component	Arit mean	Arit sd	Geom mean	Geom sd	Min	5%	50%	95%	Max	% anal	Num bel	Num sampl
PCB_101	2.262	1.471	1.878	1.736	0.930	0.951	1.700	6.440	6.800	90.9	0	25
PCB_118	0.753	0.501	0.620	1.755	0.320	0.326	0.510	2.180	2.300	90.9	0	25
PCB_138	1.694	1.309	1.328	1.863	0.640	0.640	1.100	5.610	6.000	90.9	0	25
PCB_153	1.874	1.392	1.500	1.810	0.800	0.800	1.300	6.050	6.500	90.9	0	25
PCB_180	0.632	0.488	0.490	1.894	0.170	0.170	0.440	2.080	2.200	90.9	0	25
PCB_28	1.570	0.561	1.469	1.409	0.700	0.760	1.400	2.910	3.000	90.9	0	25
PCB_52	1.918	0.897	1.721	1.553	0.650	0.755	1.600	4.020	4.200	90.9	0	25
alpha_HCH	8.17	3.16	7.54	1.43	4.00	4.00	7.00	16.90	19.00	90.9	0	25
anthracene	0.02	0.02	0.01	2.94	0.00	0.00	0.01	0.06	0.07	90.9	0	25
benz_a_anthracene	0.06	0.06	0.03	3.11	0.01	0.01	0.05	0.24	0.27	83.0	0	23
benzo_a_pyrene	0.068	0.071	0.040	3.154	0.004	0.005	0.054	0.283	0.340	90.9	0	25
benzo_b_fluoranthene	0.10	0.10	0.06	3.26	0.01	0.01	0.09	0.36	0.41	90.9	0	25
benzo_ghi_perylene	0.07	0.07	0.04	3.31	0.01	0.01	0.06	0.28	0.31	90.9	0	25
benzo_k_fluoranthene	0.10	0.10	0.06	3.26	0.01	0.01	0.09	0.36	0.41	90.9	0	25
chrysene_triphenylene	0.14	0.11	0.10	2.56	0.01	0.01	0.12	0.46	0.54	90.9	0	25
fluoranthene	0.42	0.35	0.29	2.54	0.08	0.08	0.41	1.35	1.50	90.9	0	25
gamma_HCH	7.39	3.56	6.37	1.74	2.00	2.30	7.00	14.40	15.00	90.9	0	25
inden_123cd_pyrene	0.07	0.07	0.04	3.32	0.01	0.01	0.06	0.26	0.29	90.9	3	25
phenanthrene	1.08	0.71	0.88	2.03	0.31	0.31	0.82	2.66	2.90	90.9	0	25
pp_DDD	0.25	0.18	0.19	2.25	0.02	0.04	0.21	0.68	0.75	90.9	0	25
pp_DDE	2.29	1.08	2.07	1.60	0.80	0.92	2.10	4.61	4.70	90.9	0	25
pp_DDT	0.90	0.43	0.77	1.72	0.29	0.29	0.85	1.67	1.70	90.9	0	25
pyrene	0.28	0.26	0.17	3.00	0.04	0.04	0.26	0.95	1.10	90.9	0	25

Annex 5

Monthly and annual mean values for heavy metals in precipitation

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
IE0001R	aluminium	5.00	24.67	24.03	15.26	55.28	11.71	15.27	5.00	5.00	5.00	5.47	13.90	12.39
IS0090R	aluminium	59.89	269.90	238.12	147.28	168.93	329.18	324.79	113.44	69.81	141.18	49.21	128.62	153.32
IS0091R	aluminium	244.98	233.07	123.18	213.49	412.12	432.69	90.40	118.92	81.85	248.20	129.83	52.03	165.86
DE0001R	arsenic	0.06	0.08	0.21	0.24	0.23	0.08	0.07	0.05	0.11	0.09	0.12	0.14	0.10
DE0002R	arsenic	0.06	0.12	0.22	0.22	0.11	0.15	0.17	0.14	0.13	0.08	0.08	0.08	0.13
DE0003R	arsenic	0.05	0.10	0.13	0.09	0.07	0.06	0.08	0.04	0.06	0.04	0.06	0.03	0.06
DE0007R	arsenic	-	-	0.15	0.26	0.21	0.13	0.14	0.07	0.05	0.09	0.11	0.09	0.12
DE0008R	arsenic	0.09	0.11	0.25	0.11	0.06	0.09	0.07	0.04	0.07	0.09	0.10	0.09	0.08
DE0009R	arsenic	0.07	0.09	0.16	0.21	0.17	0.08	0.14	0.12	0.08	0.11	0.14	0.13	0.12
DK0008R	arsenic	0.35	0.27	0.27	0.28	0.41	0.27	0.17	0.16	0.17	0.16	0.22	0.29	0.23
DK0020R	arsenic	0.20	0.08	0.22	0.29	0.26	0.14	0.17	0.08	0.08	0.07	0.12	0.12	0.13
DK0022R	arsenic	0.10	0.06	0.10	0.20	0.24	0.12	0.06	0.11	0.05	0.09	0.19	0.16	0.11
DK0031R	arsenic	0.07	0.03	0.12	0.16	0.27	0.14	0.17	0.11	0.08	0.09	0.09	0.11	0.10
EE0009R	arsenic	0.49	0.10	0.10	0.10	0.10	0.40	0.10	0.10	0.40	0.12	0.20	1.30	0.29
EE0011R	arsenic	0.20	0.12	0.70	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.40	1.70	0.36
ES0008R	arsenic	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
ES0009R	arsenic	1.74	-	-	-	-	-	-	2.07	-	-	-	-	-
FI0008R	arsenic	0.05	0.04	0.37	2.36	0.10	0.06	0.13	0.06	0.07	0.05	0.06	0.02	0.09
FI0017R	arsenic	0.26	0.14	0.19	0.20	0.25	0.05	0.14	0.10	0.13	0.14	0.17	0.22	0.14
FI0022R	arsenic	0.05	0.03	0.25	0.14	0.10	0.09	0.07	0.07	0.07	0.04	0.05	0.10	0.08
FI0036R	arsenic	0.05	0.02	0.13	0.13	0.09	0.02	0.12	0.03	0.07	0.10	0.03	0.03	0.07
FI0053R	arsenic	0.13	0.06	0.21	0.11	0.10	0.07	0.04	0.05	0.08	0.08	0.17	0.13	0.07
FI0092R	arsenic	0.06	0.04	0.11	0.07	0.10	0.08	0.03	0.03	0.07	0.10	0.04	0.05	0.06
FI0093R	arsenic	0.11	0.05	0.08	0.14	0.08	0.06	0.04	0.13	0.14	0.09	0.06	0.09	0.08
FR0090R	arsenic	0.15	0.28	0.21	0.42	0.46	0.28	0.30	0.31	0.31	0.17	0.34	0.32	0.28
GB0006R	arsenic	0.20	0.21	0.43	0.30	0.26	0.71	0.13	0.18	0.09	0.18	0.08	0.11	0.24
GB0013R	arsenic	0.06	0.12	0.19	0.12	0.15	0.09	0.12	0.07	0.06	0.08	0.12	0.03	0.09
GB0017R	arsenic	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.13	0.15	0.14	0.18	-	0.14
IE0001R	arsenic	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
IS0090R	arsenic	0.26	0.63	0.31	0.16	0.04	0.05	0.10	0.07	0.23	0.23	0.07	0.16	0.18
LV0010R	arsenic	0.38	0.31	0.21	0.21	0.18	0.59	0.48	0.87	0.49	0.19	0.20	0.33	0.37
LV0016R	arsenic	0.38	0.20	0.70	0.66	0.17	0.42	0.22	0.24	0.35	0.14	0.14	0.28	0.30
NL0009R	arsenic	0.08	0.08	0.08	0.36	0.41	0.08	0.08	0.08	-	0.28	0.21	0.18	0.13
NL0091R	arsenic	0.08	0.08	0.08	0.22	0.11	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
NO0001R	arsenic	0.24	0.10	0.19	0.29	0.16	0.06	0.06	0.05	0.06	0.07	0.13	0.15	0.12
NO0047R	arsenic	0.41	0.89	2.62	1.99	0.81	0.46	0.36	0.75	2.44	0.11	0.43	0.49	0.91
PL0005R	arsenic	0.15	0.21	0.10	0.47	0.21	0.15	0.24	0.33	0.27	0.26	0.23	0.26	0.23
SE0051R	arsenic	0.21	0.21	0.23	0.20	0.16	0.14	0.03	0.03	0.12	0.10	0.12	0.13	0.13
SE0097R	arsenic	0.17	0.18	0.18	0.15	0.34	0.03	0.03	0.03	0.03	0.03	0.03	0.14	0.08

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SK0002R	arsenic	0.54	0.14	0.30	0.38	0.20	0.07	0.36	0.46	0.47	0.05	0.06	0.79	0.29
SK0004R	arsenic	0.41	0.38	0.64	0.42	0.30	0.02	0.48	0.08	0.23	0.04	0.23	0.01	0.29
SK0005R	arsenic	0.67	0.42	0.27	0.61	0.40	0.08	0.46	0.25	0.02	0.52	0.30	0.64	0.35
SK0006R	arsenic	0.51	0.35	0.42	0.14	0.23	0.23	0.58	0.27	0.82	0.05	0.05	1.29	0.38
SK0007R	arsenic	0.49	0.31	0.41	0.30	0.12	0.02	0.62	0.24	0.29	0.47	0.02	0.25	0.23
CZ0001R	cadmium	0.07	0.16	0.20	0.08	0.07	0.09	0.01	0.04	0.03	0.10	0.08	0.08	0.08
CZ0003R	cadmium	0.10	0.15	0.11	0.10	0.10	0.13	0.07	0.05	0.08	0.08	0.10	0.10	0.10
DE0001R	cadmium	0.02	0.02	0.07	0.06	0.07	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.02
DE0002R	cadmium	0.02	0.05	0.07	0.08	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04
DE0003R	cadmium	0.02	0.04	0.05	0.04	0.03	0.03	0.03	0.01	0.02	0.01	0.03	0.00	0.02
DE0007R	cadmium	-	-	0.07	0.09	0.06	0.04	0.03	0.03	0.02	0.03	0.04	0.04	0.04
DE0008R	cadmium	0.03	0.04	0.07	0.04	0.04	0.03	0.02	0.02	0.03	0.04	0.03	0.04	0.03
DE0009R	cadmium	0.03	0.04	0.07	0.08	0.07	0.02	0.04	0.03	0.02	0.04	0.05	0.05	0.04
DK0008R	cadmium	0.06	0.05	0.05	0.07	0.10	0.03	0.04	0.03	0.02	0.05	0.04	0.15	0.05
DK0020R	cadmium	0.09	0.05	0.15	1.33	0.36	0.21	0.35	0.07	0.03	0.04	0.09	0.09	0.18
DK0022R	cadmium	0.03	0.02	0.04	0.04	0.07	0.02	0.02	0.02	0.01	0.03	0.03	0.03	0.03
DK0031R	cadmium	0.02	0.02	0.05	0.03	0.05	0.02	0.07	0.03	0.02	0.06	0.02	0.03	0.03
EE0009R	cadmium	0.08	0.01	0.05	0.22	0.03	0.04	0.01	0.05	0.01	0.01	0.04	0.10	0.03
EE0011R	cadmium	0.08	0.02	0.03	0.35	0.03	0.05	0.14	0.05	0.09	0.02	0.01	0.10	0.07
ES0008R	cadmium	0.08	0.08	0.13	0.43	0.20	0.14	0.13	0.31	0.19	0.08	0.13	0.08	0.16
ES0009R	cadmium	0.24	-	-	0.32	0.32	0.25	0.25	0.18	0.18	0.19	-	-	0.22
FI0008R	cadmium	0.02	0.01	0.04	0.68	0.03	0.02	0.03	0.02	0.03	0.01	0.01	0.01	0.03
FI0017R	cadmium	0.09	0.04	0.10	0.12	0.05	0.02	0.06	0.06	0.07	0.06	0.04	0.09	0.06
FI0022R	cadmium	0.03	0.01	0.02	0.06	0.03	0.03	0.02	0.01	0.06	0.01	0.01	0.02	0.03
FI0036R	cadmium	0.03	0.01	0.05	0.05	0.03	0.01	0.03	0.01	0.04	0.02	0.01	0.01	0.02
FI0053R	cadmium	0.07	0.06	0.07	0.05	0.03	0.03	0.02	0.02	0.03	0.03	0.05	0.05	0.03
FI0092R	cadmium	0.04	0.02	0.06	0.05	0.09	0.03	0.03	0.02	0.03	0.05	0.01	0.03	0.04
FI0093R	cadmium	0.06	0.02	0.05	0.09	0.03	0.02	0.02	0.06	0.04	0.05	0.02	0.04	0.03
FR0090R	cadmium	0.03	0.02	0.02	0.02	0.04	0.03	0.02	0.02	0.03	0.01	0.01	0.03	0.02
GB0006R	cadmium	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.04	0.01	0.01	0.05	0.00	0.01
GB0013R	cadmium	0.01	0.02	0.03	0.17	0.03	0.01	0.03	0.01	0.00	0.01	0.02	0.00	0.03
GB0017R	cadmium	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.02	0.03	0.03	-	0.04
GB0091R	cadmium	0.01	0.01	0.07	0.03	0.03	0.01	0.01	0.03	0.02	0.04	0.01	0.00	0.03
IE0001R	cadmium	0.05	0.26	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
IS0090R	cadmium	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
IS0091R	cadmium	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LT0015R	cadmium	0.38	0.15	0.18	0.59	0.32	0.10	0.13	0.27	0.15	0.23	0.11	0.26	0.21
LV0010R	cadmium	0.11	0.12	0.24	0.24	0.14	0.13	0.12	0.13	0.07	0.04	0.06	0.08	0.10
LV0016R	cadmium	0.14	0.07	0.14	0.09	0.05	0.08	0.03	0.09	0.05	0.04	0.06	0.03	0.07

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NL0009R	cadmium	0.02	0.02	0.04	0.14	0.12	0.05	0.02	0.04	-	0.07	0.06	0.09	0.05
NL0091R	cadmium	0.02	0.03	0.06	0.08	0.08	0.05	0.02	0.03	0.03	0.02	0.02	0.02	0.03
NO0001R	cadmium	0.05	0.01	0.08	0.12	0.07	0.01	0.02	0.02	0.01	0.05	0.03	0.03	0.04
NO0039R	cadmium	0.00	0.00	0.04	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01
NO0047R	cadmium	0.06	0.08	0.18	0.15	0.11	0.05	0.04	0.08	0.19	0.02	0.06	0.03	0.08
NO0055R	cadmium	0.01	0.01	0.01	0.09	0.04	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.01
NO0056R	cadmium	0.05	0.02	0.04	0.09	0.09	0.01	0.01	0.02	0.02	0.09	0.03	0.04	0.04
PL0004R	cadmium	0.04	0.04	0.05	0.06	0.06	0.03	0.03	0.04	0.02	0.04	0.04	0.03	0.04
PL0005R	cadmium	0.14	0.07	0.07	0.20	0.08	0.12	0.05	0.15	0.09	0.15	0.10	0.13	0.11
PT0001R	cadmium	0.43	-	0.43	0.43	0.43	0.43	-	0.43	0.43	0.43	0.43	0.43	0.43
PT0003R	cadmium	0.44	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
PT0004R	cadmium	0.43	0.43	0.43	0.43	0.43	-	-	-	0.43	0.43	0.43	0.43	0.43
PT0010R	cadmium	0.43	0.43	0.43	-	-	-	-	-	-	-	-	-	-
SE0051R	cadmium	0.06	0.03	0.06	0.11	0.10	0.02	0.01	0.02	0.07	0.18	0.05	0.05	0.05
SE0097R	cadmium	0.03	0.02	0.04	0.06	0.10	0.01	0.02	0.02	0.01	0.06	0.03	0.04	0.03
SK0002R	cadmium	0.08	0.76	0.98	0.32	0.34	0.38	0.94	0.44	-	0.36	0.37	0.12	0.52
SK0004R	cadmium	0.68	0.20	0.61	0.41	0.21	0.20	0.06	0.19	0.13	0.18	0.08	0.19	0.22
SK0005R	cadmium	0.19	0.16	0.21	0.35	0.15	0.07	0.06	0.16	0.05	0.05	0.08	0.15	0.12
SK0006R	cadmium	0.57	0.16	0.18	0.22	0.15	0.22	0.11	0.07	0.03	0.31	0.10	0.28	0.17
SK0007R	cadmium	0.05	0.05	0.08	0.08	0.08	0.06	0.05	0.06	0.02	0.05	0.03	0.04	0.06
DE0001R	chromium	0.17	0.14	0.28	0.16	0.24	0.11	0.10	0.08	0.10	0.07	0.10	0.13	0.12
DE0002R	chromium	0.11	0.23	0.25	0.21	0.11	0.16	0.11	0.13	0.16	0.11	0.05	0.12	0.13
DE0003R	chromium	0.06	0.16	0.15	0.11	0.07	0.06	0.13	0.06	0.06	0.07	0.12	0.07	0.08
DE0007R	chromium	-	-	0.25	0.17	0.19	0.11	0.08	0.09	0.06	0.08	0.07	0.06	0.09
DE0008R	chromium	0.11	0.16	0.17	0.14	0.19	0.14	0.12	0.07	0.08	0.11	0.07	0.05	0.11
DE0009R	chromium	0.18	0.11	0.17	0.15	0.27	0.11	0.12	0.09	0.09	0.05	0.14	0.09	0.12
DK0008R	chromium	0.21	0.39	0.38	0.32	0.38	0.20	0.15	0.14	0.16	0.09	0.12	0.16	0.18
DK0020R	chromium	0.13	0.38	0.31	0.21	0.28	0.11	0.18	0.11	0.10	0.06	0.10	0.10	0.15
DK0022R	chromium	0.11	0.07	0.11	0.16	0.25	0.09	0.08	0.10	0.06	0.07	0.19	0.19	0.11
DK0031R	chromium	0.05	0.03	0.10	0.12	0.30	0.07	0.29	0.14	0.06	0.09	0.09	0.13	0.10
ES0008R	chromium	15.18	14.59	9.21	17.28	13.95	146.67	110.47	45.03	22.79	16.61	10.54	30.56	30.06
ES0009R	chromium	7.79	11.52	11.15	18.64	6.56	29.26	22.06	14.48	16.79	5.37	5.56	5.29	11.21
FI0008R	chromium	0.04	0.10	0.44	1.29	0.16	0.18	0.25	0.04	0.04	0.12	0.08	1.77	0.26
FI0017R	chromium	0.14	0.20	0.32	0.86	0.41	0.13	0.64	0.44	0.10	0.22	0.09	4.29	0.63
FI0022R	chromium	0.01	0.10	0.28	0.76	0.14	0.22	0.06	0.02	0.04	0.07	0.01	3.50	0.34
FI0036R	chromium	0.01	0.08	0.21	0.21	0.14	0.07	0.31	0.01	0.02	0.03	0.01	0.04	0.12
FI0053R	chromium	0.26	0.31	0.59	0.49	0.35	0.57	0.07	0.18	0.04	0.14	0.27	2.92	0.29
FI0092R	chromium	0.01	0.20	0.54	0.61	0.16	0.09	0.02	0.04	0.02	0.12	0.01	1.10	0.18
FI0093R	chromium	0.19	0.10	0.11	0.69	0.15	0.10	0.02	0.36	0.33	0.12	0.05	0.77	0.20
FR0090R	chromium	0.18	0.35	0.11	0.31	0.40	0.18	0.10	0.08	0.16	0.17	0.14	0.13	0.17

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
GB0006R	chromium	0.18	0.17	0.26	0.05	0.18	0.16	0.10	0.06	0.02	0.06	0.06	0.08	0.11
GB0013R	chromium	0.11	0.17	0.09	0.05	0.12	0.09	0.08	0.05	0.05	0.04	0.09	0.02	0.08
GB0017R	chromium	0.02	0.02	0.02	0.04	0.12	0.12	0.12	0.13	0.12	0.07	0.09	-	0.08
GB0091R	chromium	0.19	0.22	0.12	0.05	0.14	0.07	0.11	0.10	0.23	0.08	0.11	0.17	0.10
IE0001R	chromium	0.50	0.50	0.50	0.53	2.25	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.55
IS0090R	chromium	0.14	0.41	0.39	0.30	0.12	0.31	0.28	0.14	0.10	0.38	0.34	0.15	0.25
IS0091R	chromium	0.35	0.12	0.33	0.30	0.38	0.41	0.10	0.29	0.64	0.21	0.29	0.20	0.34
NL0009R	chromium	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	-	0.26	0.26	0.26	0.26
NL0091R	chromium	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
NO0001R	chromium	0.10	0.10	0.10	0.19	0.12	0.10	0.10	0.11	0.10	0.10	0.16	0.10	0.11
NO0047R	chromium	0.10	0.21	0.56	0.68	0.38	0.23	0.24	0.31	1.12	0.19	0.52	0.11	0.39
PL0004R	chromium	0.18	0.16	0.38	0.12	0.14	0.10	0.04	0.04	0.07	0.04	0.10	0.04	0.09
PL0005R	chromium	0.15	0.08	0.13	0.12	0.04	0.08	0.14	0.08	0.14	0.09	0.05	0.03	0.09
SE0051R	chromium	0.03	0.03	0.14	0.32	0.13	0.03	0.03	0.03	0.11	0.03	0.03	0.03	0.05
SE0097R	chromium	0.03	0.14	0.03	0.15	0.21	0.14	0.48	0.17	0.04	0.03	0.16	0.18	0.14
SK0002R	chromium	0.13	0.25	0.31	0.94	0.39	0.05	0.12	0.11	0.12	0.08	0.09	0.16	0.21
SK0004R	chromium	0.04	0.02	0.09	0.03	0.02	0.02	0.07	0.04	0.10	0.09	0.03	0.03	0.05
SK0005R	chromium	0.15	0.18	0.09	0.06	0.12	0.02	0.07	0.10	0.05	0.12	0.07	0.07	0.08
SK0006R	chromium	0.06	0.08	0.06	0.02	0.05	0.01	0.05	0.04	0.02	0.23	0.05	0.07	0.05
SK0007R	chromium	0.07	0.01	0.03	0.02	-	0.02	0.05	0.05	0.02	0.07	0.05	0.05	0.03
DE0001R	cobalt	0.01	0.02	0.06	0.05	0.08	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
DE0002R	cobalt	0.01	0.05	0.05	0.05	0.04	0.03	0.02	0.03	0.03	0.02	0.01	0.02	0.03
DE0003R	cobalt	0.01	0.07	0.03	0.03	0.02	0.03	0.07	0.02	0.02	0.02	0.01	0.00	0.02
DE0007R	cobalt	-	-	0.08	0.06	0.08	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.03
DE0008R	cobalt	0.01	0.03	0.05	0.03	0.03	0.03	0.02	0.01	0.02	0.05	0.01	0.01	0.02
DE0009R	cobalt	0.01	0.03	0.06	0.03	0.06	0.02	0.03	0.02	0.03	0.01	0.03	0.02	0.02
NO0001R	cobalt	0.01	0.01	0.01	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01
NO0047R	cobalt	0.22	0.62	2.02	2.21	0.94	0.28	0.36	0.96	3.12	0.05	0.66	0.20	0.95
SE0097R	cobalt	0.01	0.02	0.02	0.03	0.07	0.02	0.02	0.02	0.00	0.00	0.01	0.01	0.01
DE0001R	copper	0.34	0.41	1.05	1.98	1.33	0.81	0.93	0.47	0.43	0.25	0.25	0.34	0.52
DE0002R	copper	0.39	1.59	1.00	1.53	0.65	1.56	1.35	1.41	2.05	1.03	0.75	0.84	1.17
DE0003R	copper	0.22	1.09	1.46	1.37	0.94	1.19	1.66	1.06	0.81	0.68	1.44	0.95	1.04
DE0007R	copper	-	-	1.51	1.53	2.07	1.64	1.22	0.77	0.94	0.67	0.89	0.52	1.09
DE0008R	copper	0.96	0.86	1.14	1.15	2.51	1.29	1.00	0.71	0.36	0.53	0.28	0.25	0.89
DE0009R	copper	2.58	0.64	2.25	1.87	1.46	1.12	6.34	1.12	1.21	2.12	5.15	8.03	2.78
DK0008R	copper	0.92	1.88	2.09	9.18	3.37	1.01	2.14	1.09	1.52	0.53	0.75	1.19	1.63
DK0020R	copper	1.20	2.84	2.80	18.42	6.23	4.30	4.52	0.98	0.76	0.61	1.19	1.19	2.86
DK0022R	copper	0.93	0.67	1.03	1.38	1.61	0.71	0.57	0.80	0.29	0.47	0.61	0.49	0.71
DK0031R	copper	0.30	0.24	0.50	0.63	1.37	0.42	0.84	1.19	1.02	17.28	7.51	1.57	3.72

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
EE0009R	copper	3.49	3.24	5.90	5.10	1.80	3.60	4.40	16.20	25.60	27.86	1.30	41.60	12.28
EE0011R	copper	6.31	6.72	4.30	14.20	2.80	7.70	8.90	16.20	23.00	24.57	2.30	47.30	15.63
ES0008R	copper	10.53	11.10	16.93	29.85	24.46	34.20	41.05	36.93	19.45	11.75	34.42	13.84	21.81
ES0009R	copper	13.13	9.91	11.52	20.94	9.04	21.50	22.40	9.93	15.36	7.34	14.86	14.15	12.55
FI0008R	copper	1.09	1.86	6.96	34.38	1.03	1.41	0.93	0.73	0.86	1.27	1.12	1.59	1.32
FI0017R	copper	0.87	1.17	1.44	2.18	2.32	0.53	2.01	0.75	0.90	0.78	1.14	1.19	1.01
FI0022R	copper	0.66	0.71	1.06	1.59	0.87	0.66	0.57	0.93	0.36	0.68	0.49	1.45	0.74
FI0036R	copper	1.03	0.63	1.50	1.50	0.92	0.68	0.69	0.61	0.60	1.67	0.69	0.77	0.76
FI0053R	copper	1.69	2.09	2.74	1.10	0.87	1.22	0.76	0.55	0.60	1.00	1.31	2.20	0.94
FI0092R	copper	0.58	0.62	0.96	1.35	1.22	0.56	0.26	0.55	0.53	0.49	0.34	0.57	0.60
FI0093R	copper	0.51	0.77	1.12	2.87	0.76	0.35	0.36	1.14	0.78	0.75	0.97	0.54	0.63
FR0090R	copper	1.17	1.92	0.98	2.61	2.99	1.47	0.95	1.09	1.54	0.77	3.61	1.47	1.44
GB0006R	copper	0.40	0.17	0.47	0.39	0.32	0.53	0.78	0.74	0.18	0.46	0.67	0.15	0.43
GB0013R	copper	0.23	0.51	0.47	1.97	0.77	0.46	1.21	0.39	0.28	0.31	0.46	0.10	0.50
GB0017R	copper	0.96	0.96	0.96	1.02	1.28	1.28	1.28	1.28	1.19	0.97	0.90	-	1.13
GB0091R	copper	0.32	0.42	0.85	0.43	0.75	0.31	0.48	0.57	0.79	0.52	0.18	0.33	0.49
IE0001R	copper	2.00	72.17	4.86	8.20	20.05	2.31	2.81	3.17	4.59	4.32	5.71	4.10	8.74
IS0090R	copper	1.40	2.49	1.75	1.71	1.58	2.42	1.96	1.52	1.47	1.74	1.05	1.27	1.61
IS0091R	copper	1.33	1.46	2.76	0.70	0.96	3.68	1.20	1.12	0.98	1.05	0.68	0.90	1.37
LT0015R	copper	1.57	1.97	1.38	3.83	1.65	0.95	0.68	1.78	1.71	1.70	1.84	2.39	1.71
LV0010R	copper	2.16	2.39	1.00	8.75	1.11	4.18	2.20	2.51	1.27	0.36	0.37	1.35	1.62
LV0016R	copper	7.15	2.03	2.34	2.39	1.12	1.59	1.00	0.90	0.86	0.39	0.39	0.75	1.30
NL0009R	copper	0.41	1.09	5.82	6.66	2.45	0.99	0.89	0.70	-	1.07	0.98	1.12	1.03
NL0091R	copper	0.84	1.92	3.04	4.57	4.52	2.93	1.58	1.65	1.41	1.14	1.17	0.92	1.80
NO0001R	copper	0.40	0.36	0.50	1.20	0.63	0.13	0.20	0.07	0.11	0.12	0.69	0.65	0.35
NO0047R	copper	10.76	24.17	85.51	73.96	21.36	7.59	8.07	25.36	104.05	2.04	34.52	9.21	31.03
PL0004R	copper	0.97	1.11	1.01	0.28	1.22	1.41	0.57	0.70	0.71	0.75	0.60	1.00	0.80
PL0005R	copper	1.30	2.05	2.26	1.76	1.35	0.87	1.50	2.46	2.85	2.05	2.02	2.23	1.79
PT0001R	copper	1.11	-	0.33	0.84	7.06	1.07	-	0.33	3.32	1.52	2.76	0.86	1.47
PT0003R	copper	1.18	2.50	11.23	0.58	0.60	4.49	5.00	2.56	6.80	1.19	2.17	2.05	7.79
PT0004R	copper	0.33	0.50	1.02	0.76	0.33	-	-	-	0.33	0.69	0.33	0.33	0.56
PT0010R	copper	0.33	0.33	0.33	-	-	-	-	-	-	-	-	-	0.33
SE0051R	copper	1.36	0.82	1.18	1.57	1.83	0.48	0.39	0.50	0.88	3.25	0.45	0.68	0.91
SE0097R	copper	0.54	0.34	0.36	0.95	1.40	0.85	0.48	0.36	0.42	0.72	0.47	0.71	0.57
SK0002R	copper	2.19	1.18	3.81	1.42	-	0.60	1.50	1.88	1.88	3.81	3.38	2.12	1.76
SK0004R	copper	4.60	0.66	0.98	1.75	1.13	1.06	0.77	3.21	5.86	1.09	1.48	0.73	1.55
SK0005R	copper	2.70	2.86	2.55	1.26	1.95	0.81	1.62	1.67	0.43	1.22	1.33	0.61	1.56
SK0006R	copper	2.34	2.06	2.35	0.93	3.37	1.12	1.09	0.74	3.08	1.82	0.97	1.08	1.64
SK0007R	copper	0.65	0.34	0.54	0.35	0.86	0.18	0.68	0.86	0.65	0.60	0.78	0.74	0.51

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
DE0001R	iron	5.24	15.64	72.82	59.55	83.76	27.12	14.77	9.34	13.57	11.85	10.77	11.44	18.23
DE0002R	iron	11.69	58.45	68.52	77.34	49.13	36.94	24.38	34.13	34.96	17.07	7.00	8.96	32.58
DE0003R	iron	4.17	40.93	26.24	24.33	18.16	13.38	30.70	13.40	14.21	21.37	27.50	11.25	18.69
DE0007R	iron	-	-	77.30	43.62	66.44	28.12	23.86	23.64	13.22	12.01	7.94	6.63	22.80
DE0008R	iron	10.07	23.41	34.67	27.82	23.18	28.34	21.05	8.58	14.02	19.97	8.46	7.20	16.65
DE0009R	iron	15.56	19.37	49.10	36.91	70.17	27.14	23.72	25.98	29.19	9.94	18.15	11.11	24.65
FI0008R	iron	13.04	11.88	54.19	260.38	22.13	20.02	23.81	8.72	10.30	11.65	26.23	24.25	18.23
FI0017R	iron	42.53	39.38	65.26	54.49	249.09	11.73	47.78	23.68	18.91	15.10	21.76	56.32	37.93
FI0022R	iron	20.16	9.16	9.71	27.55	25.27	12.16	8.32	5.61	6.20	6.02	7.83	36.55	12.68
FI0036R	iron	0.75	4.77	24.64	24.64	14.74	7.91	16.90	7.93	7.59	8.53	6.59	9.28	11.03
FI0053R	iron	96.99	50.84	74.92	29.46	48.11	22.38	16.83	15.17	12.63	8.64	149.70	90.13	32.26
FI0092R	iron	12.11	25.38	18.85	11.48	26.42	8.70	7.72	16.48	9.97	9.28	5.16	15.77	13.61
FI0093R	iron	15.86	29.70	20.65	33.50	36.79	8.61	7.64	27.66	21.79	9.13	6.92	17.38	15.96
IS0090R	iron	19.57	206.18	190.89	141.10	104.78	290.38	274.57	65.83	58.14	108.08	38.81	79.71	118.83
IS0091R	iron	485.86	294.05	193.89	238.48	554.66	626.47	104.50	160.49	271.03	288.85	162.74	79.50	259.40
CZ0001R	lead	0.61	1.27	3.10	1.43	0.95	2.24	0.30	0.32	0.26	0.84	0.26	0.30	1.08
CZ0003R	lead	2.84	2.47	1.58	1.18	1.23	2.13	1.67	0.27	1.22	2.23	0.30	0.32	1.61
DE0001R	lead	0.94	0.93	1.35	1.66	2.12	0.66	0.60	0.60	0.52	0.52	0.57	1.08	0.79
DE0002R	lead	0.82	1.72	1.50	2.21	1.27	2.34	1.85	1.23	1.95	0.89	1.14	0.91	1.51
DE0003R	lead	0.30	1.25	1.43	1.00	1.72	0.98	1.04	0.42	0.97	0.65	1.79	0.58	0.95
DE0007R	lead	-	-	1.31	2.00	1.95	1.49	1.28	0.81	0.44	0.80	1.22	0.92	1.15
DE0008R	lead	1.28	1.74	2.32	1.15	0.81	1.48	1.06	0.64	1.23	1.81	1.79	1.67	1.32
DE0009R	lead	0.67	1.19	1.70	2.53	2.09	0.84	1.32	0.88	0.65	1.24	1.44	1.33	1.23
DK0008R	lead	2.00	1.89	1.86	1.09	3.34	0.82	0.98	1.02	0.85	1.30	1.13	1.60	1.32
DK0020R	lead	3.38	2.21	1.96	0.52	1.75	1.27	1.25	0.86	0.64	1.13	1.90	1.90	1.38
DK0022R	lead	1.16	0.84	1.41	0.35	2.62	0.94	0.62	0.56	0.48	1.01	1.14	1.57	0.98
DK0031R	lead	0.63	0.37	0.97	0.22	1.38	0.37	0.64	0.63	0.43	1.38	0.68	0.87	0.70
EE0009R	lead	0.50	0.50	0.50	0.50	0.50	0.50	3.70	1.30	0.50	0.50	0.50	0.50	1.22
EE0011R	lead	0.50	0.50	0.50	0.50	0.50	0.50	1.50	1.30	1.50	0.58	0.50	0.50	0.87
ES0008R	lead	3.34	2.09	1.55	4.19	7.40	6.21	5.20	8.25	4.07	1.21	1.49	1.55	3.54
ES0009R	lead	6.99	7.44	2.83	6.66	8.98	3.46	4.24	4.91	2.66	-	-	-	5.17
FI0008R	lead	0.56	0.20	1.14	19.07	0.68	0.48	0.84	0.32	0.65	0.27	0.19	0.21	0.60
FI0017R	lead	2.53	1.20	2.38	1.89	1.60	0.51	0.84	1.10	1.32	1.81	1.27	2.49	1.36
FI0022R	lead	0.59	0.22	0.66	0.98	0.75	0.63	0.51	0.19	0.83	0.30	0.23	0.41	0.52
FI0036R	lead	0.75	0.15	1.44	1.44	0.64	0.18	0.76	0.18	0.86	0.33	0.24	0.31	0.58
FI0053R	lead	1.56	2.09	2.05	0.67	0.83	0.55	0.44	0.40	0.61	0.58	1.58	1.31	0.71
FI0092R	lead	0.91	0.49	1.24	0.71	2.19	0.63	0.50	0.37	0.74	1.10	0.33	0.69	0.79
FI0093R	lead	1.54	0.45	0.74	1.20	0.58	0.39	0.28	1.07	1.05	1.41	0.36	1.06	0.70
FR0090R	lead	0.11	0.91	0.07	1.38	1.44	0.65	0.89	0.16	0.57	0.61	0.72	0.10	0.57

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GB0006R	lead	0.12	0.05	0.34	0.25	0.42	1.17	0.12	0.36	0.14	0.24	0.11	0.08	0.30
GB0013R	lead	0.32	0.98	1.44	0.99	1.80	0.80	1.52	0.24	0.24	0.51	0.52	0.10	0.65
GB0017R	lead	1.33	1.33	1.33	1.42	1.84	1.84	1.84	1.83	1.36	1.41	1.70	-	1.60
GB0091R	lead	0.36	0.28	2.12	1.09	0.97	1.25	0.77	1.23	2.64	1.21	0.23	0.09	1.13
IE0001R	lead	0.50	3.41	0.55	3.20	3.02	2.16	4.24	0.50	0.50	0.50	0.50	0.50	1.27
IS0090R	lead	0.34	0.40	0.41	0.81	0.55	0.53	0.43	0.50	0.24	0.37	0.16	0.21	0.39
IS0091R	lead	0.33	0.49	0.73	0.56	0.47	0.31	0.38	0.40	0.17	0.35	0.29	0.24	0.38
LT0015R	lead	2.08	1.63	2.78	26.93	10.85	6.63	1.56	62.38	12.46	20.52	4.97	4.00	12.78
LV0010R	lead	1.95	1.90	1.61	1.26	1.08	1.40	1.18	2.17	1.03	1.02	1.47	1.78	1.44
LV0016R	lead	3.23	1.79	1.59	0.94	0.51	0.36	0.59	0.77	0.87	1.05	0.91	1.62	1.02
NL0009R	lead	0.86	0.90	1.19	2.15	1.82	0.99	1.71	0.46	-	1.69	1.66	1.70	1.23
NL0091R	lead	2.34	2.54	2.33	3.12	2.49	2.15	1.47	2.45	2.29	2.22	2.92	2.81	2.32
NO0001R	lead	1.70	0.47	2.68	3.67	2.22	0.47	0.65	0.54	0.31	1.06	1.22	1.53	1.30
NO0039R	lead	0.27	0.12	0.40	0.29	0.30	0.10	0.14	0.22	0.02	0.02	0.11	0.11	0.13
NO0047R	lead	1.08	0.95	2.19	2.58	2.04	1.03	0.57	1.18	2.64	0.31	0.68	0.96	1.32
NO0055R	lead	1.19	1.19	3.66	5.01	1.32	0.86	1.37	0.22	0.38	0.22	0.30	0.27	0.74
NO0056R	lead	1.63	0.46	0.86	1.83	2.21	0.30	0.29	0.42	0.35	1.34	0.72	1.05	0.89
PL0004R	lead	1.99	0.94	1.86	0.27	1.63	1.02	1.05	1.07	0.49	0.63	1.13	0.58	0.96
PL0005R	lead	2.34	2.05	2.13	1.71	0.84	0.62	1.31	1.61	1.37	1.61	0.74	1.19	1.34
PT0001R	lead	0.65	-	0.65	0.65	0.65	0.65	-	5.66	4.72	6.58	11.46	0.65	3.85
PT0003R	lead	0.65	0.65	0.65	0.65	0.65	9.38	6.71	9.24	7.06	6.14	4.77	0.65	1.78
PT0004R	lead	0.65	0.65	0.65	0.65	0.65	-	-	-	5.23	9.01	0.65	0.65	3.09
PT0010R	lead	0.65	0.65	0.77	-	-	-	-	-	-	-	-	-	-
SE0051R	lead	2.66	2.14	2.37	1.08	2.18	0.33	0.25	0.53	0.89	2.08	1.07	1.94	1.32
SE0097R	lead	1.16	0.79	1.43	1.08	1.55	0.53	0.54	0.35	0.82	0.97	0.85	1.48	0.91
SK0002R	lead	2.40	3.23	4.50	4.49	2.45	2.33	0.92	2.22	2.25	3.78	3.65	3.59	2.57
SK0004R	lead	7.81	2.12	5.53	4.51	2.65	1.64	1.41	2.19	1.79	3.13	1.24	2.29	2.59
SK0005R	lead	4.59	3.67	4.03	4.12	2.81	1.33	1.49	4.73	1.35	1.24	0.66	3.68	2.39
SK0006R	lead	8.09	4.98	4.86	2.33	2.79	1.94	1.44	1.95	1.54	8.67	2.65	7.41	3.07
SK0007R	lead	4.96	1.01	1.00	0.86	1.24	1.07	1.11	0.94	0.32	1.94	0.90	1.43	1.31
CZ0001R	manganese	1.02	9.09	3.47	3.36	5.17	3.40	1.90	3.45	5.58	26.57	7.21	2.78	5.09
CZ0003R	manganese	0.93	15.78	2.29	5.23	3.30	3.38	4.73	3.86	9.41	4.63	1.20	4.44	4.34
DE0001R	manganese	0.45	0.79	3.70	5.65	6.66	1.87	1.51	1.10	1.18	0.99	0.90	0.81	1.40
DE0002R	manganese	0.78	3.11	4.72	5.44	2.77	3.32	2.37	2.97	3.06	1.67	0.72	1.04	2.51
DE0003R	manganese	0.32	2.64	1.71	2.17	1.47	1.33	3.03	1.27	1.46	1.49	1.02	0.77	1.49
DE0007R	manganese	-	-	4.90	3.47	7.92	2.93	2.59	2.33	1.83	1.73	2.88	1.52	2.74
DE0008R	manganese	0.67	2.06	2.94	2.26	1.80	3.06	1.62	0.94	1.36	1.83	0.64	0.71	1.44
DE0009R	manganese	0.82	1.37	4.32	2.76	5.41	2.31	2.19	2.56	3.54	0.88	3.15	1.36	2.23

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
FI0008R	manganese	0.23	0.97	1.05	22.58	0.95	1.26	6.48	1.04	1.80	0.47	0.52	0.81	1.98
FI0017R	manganese	1.89	1.78	2.99	10.51	15.91	4.23	2.44	1.61	1.57	0.81	1.61	2.67	-
FI0022R	manganese	0.46	0.33	0.83	4.51	1.36	6.16	1.09	0.69	0.99	0.35	0.55	1.05	1.32
FI0036R	manganese	0.25	0.20	1.57	1.57	0.96	0.92	2.59	0.39	0.87	0.27	0.63	0.44	1.23
FI0053R	manganese	5.15	2.35	5.29	3.92	1.83	3.27	1.03	0.96	0.84	1.21	7.01	5.39	2.01
FI0092R	manganese	0.67	0.58	0.72	0.72	3.40	3.60	0.71	0.99	0.96	0.71	0.28	0.47	1.27
FI0093R	manganese	0.71	1.22	1.80	3.91	2.69	2.27	0.66	2.69	1.99	1.02	0.48	0.98	1.47
IE0001R	manganese	16.60	34.40	2.37	0.62	8.19	2.51	6.56	8.33	15.97	2.35	7.03	2.10	8.68
IS0090R	manganese	0.93	4.36	4.03	3.75	2.33	5.42	6.36	2.16	1.66	2.45	1.00	1.50	2.75
IS0091R	manganese	6.57	5.80	2.73	4.66	9.64	10.29	2.69	2.53	2.13	5.35	2.57	1.13	3.88
LV0010R	manganese	3.74	3.61	4.24	6.14	13.94	19.35	8.31	1.57	4.55	3.22	3.94	6.99	5.90
LV0016R	manganese	3.21	10.14	3.09	24.87	11.21	5.49	2.53	5.27	8.29	3.04	6.75	2.55	5.84
PT0001R	manganese	1.08	-	1.08	1.08	1.08	10.69	-	1.08	21.57	2.62	22.29	5.34	4.65
PT0003R	manganese	1.21	1.08	1.17	2.68	1.61	5.43	6.69	2.48	12.38	1.65	1.08	2.57	1.50
PT0004R	manganese	1.08	1.08	1.73	1.83	1.99	-	-	-	1.08	1.88	1.08	2.56	1.62
PT0010R	manganese	1.08	1.08	10.94	-	-	-	-	-	-	-	-	-	-
SE0051R	manganese	5.00	5.90	5.54	18.60	19.90	4.04	1.67	4.77	8.90	3.20	2.30	1.90	5.10
SE0097R	manganese	0.70	1.06	0.91	1.99	0.00	1.40	1.00	1.38	1.05	1.00	2.38	1.20	1.22
BE0004R	mercury	10.12	5.00	28.32	6.70	30.00	140.33	96.24	30.00	30.00	30.00	5.66	-	36.76
DE0001R	mercury	4.24	4.41	9.53	11.49	11.19	13.91	12.78	12.86	6.22	6.37	4.83	5.59	8.14
DE0002R	mercury	5.71	11.97	13.70	13.35	8.53	21.53	15.81	13.26	11.05	16.63	5.67	4.50	11.78
DE0007R	mercury	-	-	-	13.90	17.11	17.46	12.51	14.72	8.16	12.76	7.44	5.05	12.16
DE0009R	mercury	5.02	7.45	13.09	13.77	14.11	13.29	13.51	14.70	12.32	10.18	6.87	6.67	10.83
FI0096G	mercury	-	1.80	7.20	9.70	9.30	9.80	7.50	4.40	4.00	5.50	7.10	-	6.26
IE0001R	mercury	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
NL0091R	mercury	6.71	9.04	10.71	30.52	15.62	17.12	19.65	14.73	14.95	18.62	33.74	13.68	15.16
NO0001R	mercury	-	-	7.19	11.70	13.30	5.13	24.32	13.01	10.30	8.34	9.90	1.90	9.85
PL0005R	mercury	1.11	0.05	0.05	0.52	0.87	0.42	0.05	0.15	0.11	0.05	0.04	0.09	0.27
SE0014R	mercury	9.10	21.40	9.10	46.00	37.00	19.30	11.30	-	9.00	5.40	7.50	11.10	14.65
CZ0001R	nickel	0.72	1.05	2.78	0.50	0.50	0.50	0.62	1.36	0.77	5.49	0.80	0.59	1.19
CZ0003R	nickel	0.95	0.50	0.77	0.54	1.91	3.68	0.61	0.52	0.70	1.11	0.68	0.86	1.26
DE0001R	nickel	0.25	0.32	0.51	0.52	1.08	0.23	0.29	0.30	0.23	0.24	0.28	0.34	0.30
DE0002R	nickel	0.23	0.47	0.46	0.47	0.34	0.51	0.34	0.21	0.50	0.28	0.21	0.25	0.35
DE0003R	nickel	0.11	0.38	0.27	0.25	0.18	0.20	0.27	0.15	0.18	0.14	0.26	0.13	0.19
DE0007R	nickel	-	-	0.40	0.34	0.43	0.41	0.21	0.14	0.30	0.24	0.35	0.44	0.29
DE0008R	nickel	0.23	0.36	0.47	0.26	0.74	0.36	0.21	0.14	0.18	0.21	0.19	0.23	0.28
DE0009R	nickel	0.32	0.30	0.45	0.25	0.44	0.29	0.35	0.22	0.41	0.31	0.73	0.46	0.35

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DK0008R	nickel	0.31	1.88	1.86	1.01	0.67	0.34	0.27	0.29	1.16	0.17	0.26	0.39	0.48
DK0020R	nickel	0.39	1.84	0.51	0.52	1.01	0.63	0.59	0.32	0.28	0.22	0.44	0.44	0.50
DK0022R	nickel	0.21	0.22	0.25	0.30	0.40	0.23	0.24	0.19	0.22	0.24	0.27	0.29	0.25
DK0031R	nickel	0.17	0.13	0.26	0.22	0.52	0.18	0.24	0.20	0.26	1.61	0.38	0.35	0.43
ES0008R	nickel	16.53	39.06	16.90	32.88	33.75	216.23	175.92	54.33	37.24	23.69	15.44	69.76	50.71
ES0009R	nickel	12.59	23.10	11.60	20.10	13.55	36.42	20.86	15.06	8.94	4.91	5.60	-	17.00
FI0008R	nickel	0.27	0.26	6.39	16.77	0.36	0.31	0.68	0.39	0.41	0.18	0.48	0.94	0.62
FI0017R	nickel	0.57	0.35	1.27	0.48	0.61	0.11	0.29	0.22	0.18	0.21	0.37	1.98	0.46
FI0022R	nickel	0.24	0.20	0.29	0.27	0.17	0.23	0.09	0.20	0.13	0.13	0.14	1.60	0.27
FI0036R	nickel	0.13	0.16	0.36	0.36	0.28	0.92	0.20	0.18	0.31	0.42	0.06	0.04	0.26
FI0053R	nickel	0.48	0.50	0.63	0.37	0.25	0.45	0.17	0.16	0.15	0.81	0.39	1.57	0.32
FI0092R	nickel	0.25	0.13	0.24	0.25	0.30	0.15	0.05	0.08	0.14	0.11	0.12	0.56	0.18
FI0093R	nickel	0.19	0.22	0.25	0.49	0.19	0.13	0.11	0.20	0.16	0.12	0.14	0.46	0.18
FR0090R	nickel	0.99	0.57	0.40	0.49	0.64	0.42	0.40	0.34	0.42	0.37	0.91	1.02	0.55
GB0006R	nickel	0.06	0.06	0.08	0.05	0.06	0.09	0.04	0.11	0.03	0.06	0.08	0.02	0.06
GB0013R	nickel	0.17	0.52	0.24	0.21	0.31	0.33	0.57	0.21	0.27	0.22	0.28	0.06	0.24
GB0017R	nickel	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.29	0.24	0.31	-	0.27
GB0091R	nickel	0.12	0.50	0.29	0.18	1.66	0.14	0.73	0.31	0.76	0.21	0.09	0.05	0.33
IE0001R	nickel	0.50	28.67	2.37	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	2.45
IS0090R	nickel	0.46	1.04	0.60	0.54	0.40	0.52	0.52	0.46	0.23	1.14	0.76	0.35	0.55
IS0091R	nickel	0.44	0.30	0.33	0.32	0.36	0.34	0.18	0.31	0.37	0.35	0.41	0.21	0.33
LV0010R	nickel	1.07	0.36	1.45	1.14	1.86	6.61	1.61	1.55	1.79	0.79	1.80	0.88	1.65
LV0016R	nickel	0.58	0.46	0.59	1.29	1.26	1.56	1.55	1.27	1.92	0.77	3.90	0.60	1.35
NL0009R	nickel	0.21	0.25	0.55	0.49	0.23	0.21	0.21	0.21	-	0.45	0.37	0.21	0.24
NL0091R	nickel	0.21	0.21	0.47	0.62	0.53	0.40	0.21	0.54	0.40	0.21	0.31	0.29	0.31
NO0001R	nickel	0.24	0.10	0.21	0.39	0.28	0.16	0.17	0.11	0.13	0.15	0.32	0.39	0.21
NO0047R	nickel	8.80	23.80	75.63	84.34	31.95	9.79	11.57	34.99	129.94	2.81	29.32	8.31	36.93
PL0004R	nickel	0.21	0.10	0.63	0.59	0.29	0.14	0.06	0.12	0.33	0.17	0.14	0.11	0.19
PL0005R	nickel	0.62	1.76	1.12	0.76	0.99	0.57	1.97	1.25	2.46	1.70	0.54	1.92	1.23
PT0001R	nickel	1.15	-	0.78	0.78	0.78	0.78	-	0.78	0.78	0.78	0.78	0.78	0.81
PT0003R	nickel	0.88	0.78	1.59	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	1.30
PT0004R	nickel	0.78	0.89	4.71	0.78	0.78	-	-	-	0.78	0.78	0.78	0.78	1.26
PT0010R	nickel	2.42	1.60	21.96	-	-	-	-	-	-	-	-	-	7.07
SE0051R	nickel	0.29	0.27	0.37	0.58	0.74	0.19	0.15	0.19	0.31	0.41	0.53	0.32	0.30
SE0097R	nickel	0.30	0.47	0.22	0.29	0.48	0.39	0.37	0.23	0.21	0.29	0.32	0.46	0.32
SK0002R	nickel	0.93	0.05	0.47	0.31	0.55	0.11	0.41	1.66	1.68	0.16	0.16	0.32	0.54
SK0004R	nickel	0.24	0.05	0.11	0.05	0.18	0.05	0.10	0.30	0.81	0.11	0.11	0.21	0.15
SK0005R	nickel	1.21	0.27	1.75	0.05	0.34	0.03	0.17	0.12	0.11	0.12	0.07	0.49	0.28
SK0006R	nickel	0.23	0.05	0.03	0.05	-	0.05	0.05	0.08	0.11	0.12	0.12	0.28	0.08
SK0007R	nickel	0.05	0.05	0.05	0.05	0.33	0.05	0.06	0.26	0.12	0.03	0.12	0.87	0.13

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DE0001R	vanadium	0.34	0.53	0.87	1.01	1.14	0.47	0.38	0.44	0.59	0.44	0.59	0.76	0.55
DE0002R	vanadium	0.30	0.64	0.83	0.64	0.35	0.66	0.50	0.24	0.65	0.37	0.41	0.44	0.48
DE0003R	vanadium	0.20	0.40	0.39	0.27	0.21	0.22	0.41	0.24	0.31	0.31	0.44	0.14	0.27
DE0007R	vanadium	-	-	0.44	0.48	0.68	0.51	0.29	0.16	0.26	0.35	0.43	0.54	0.36
DE0008R	vanadium	0.25	0.48	0.62	0.32	0.24	0.44	0.32	0.18	0.28	0.33	0.36	0.41	0.33
DE0009R	vanadium	0.37	0.65	0.74	0.38	0.73	0.61	0.71	0.53	0.62	0.71	0.65	0.62	0.61
FI0017R	vanadium	1.02	0.70	1.00	0.64	0.98	0.23	0.45	0.38	0.35	0.53	0.92	0.94	0.54
FI0022R	vanadium	0.28	0.12	0.29	0.34	0.25	0.24	0.14	0.13	0.19	0.22	0.13	0.22	0.19
FI0036R	vanadium	0.26	0.09	0.43	0.43	0.21	0.06	0.16	0.07	0.19	0.15	0.07	0.16	0.15
FI0092R	vanadium	0.31	0.28	0.48	0.42	0.32	0.14	0.07	0.11	0.24	0.28	0.20	0.31	0.22
FI0093R	vanadium	0.47	0.34	0.53	0.36	0.25	0.23	0.16	0.35	0.37	0.35	0.28	0.46	0.30
IE0001R	vanadium	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
IS0090R	vanadium	1.33	3.41	1.91	1.14	0.52	0.99	1.11	0.58	1.46	1.60	0.65	1.47	1.29
NO0001R	vanadium	0.80	0.43	0.80	0.98	0.62	0.38	0.46	0.32	0.54	0.52	0.61	0.98	0.61
SE0051R	vanadium	0.71	1.09	0.96	0.79	1.03	0.42	0.28	0.39	0.70	0.35	0.72	0.71	0.62
SE0097R	vanadium	0.83	1.16	0.77	0.45	0.40	0.47	0.22	0.22	0.62	0.39	0.86	1.50	0.65
DE0001R	zinc	4.81	6.10	8.76	14.95	10.53	5.71	6.74	3.97	3.26	4.13	4.98	5.73	5.32
DE0002R	zinc	3.88	7.70	7.39	7.38	3.85	8.47	6.95	5.44	9.31	5.08	4.80	4.30	6.14
DE0003R	zinc	1.87	5.93	6.41	6.16	5.55	6.47	3.61	5.29	5.43	2.87	4.94	4.60	4.78
DE0007R	zinc	-	-	7.00	11.30	9.67	7.91	5.71	5.03	5.18	5.39	7.38	6.88	6.62
DE0008R	zinc	4.34	7.94	11.55	6.25	6.16	7.40	5.30	2.65	5.02	6.30	6.37	7.76	5.88
DE0009R	zinc	5.46	5.44	10.02	10.84	10.28	5.66	11.88	7.42	7.38	5.68	13.45	11.14	8.18
DK0008R	zinc	10.04	19.42	19.68	28.63	30.35	48.82	9.38	10.87	9.74	7.26	32.13	21.29	18.09
DK0020R	zinc	16.59	22.69	12.61	41.80	26.49	18.54	29.35	13.63	7.55	7.82	19.02	19.02	16.70
DK0022R	zinc	5.87	4.40	5.58	9.42	10.91	6.55	4.70	4.01	2.84	3.96	6.21	6.66	5.38
DK0031R	zinc	4.16	3.41	6.70	6.35	18.45	7.14	8.29	5.72	4.21	13.22	11.83	11.81	7.81
EE0009R	zinc	5.00	5.00	5.00	5.00	5.00	5.00	5.00	27.00	5.00	5.00	5.00	5.00	7.07
EE0011R	zinc	14.17	19.83	15.00	32.00	11.00	5.00	5.00	27.00	5.00	5.00	15.00	12.00	10.32
ES0008R	zinc	31.08	73.40	79.60	91.83	88.40	234.59	223.09	954.88	198.09	60.42	64.58	42.07	136.03
FI0017R	zinc	6.59	4.74	5.98	8.27	7.69	1.97	6.26	4.89	3.51	5.19	4.69	7.37	4.62
FI0022R	zinc	1.71	1.36	1.77	6.93	2.37	2.98	1.14	0.71	1.91	1.13	1.39	2.11	1.77
FI0036R	zinc	2.86	1.08	7.87	7.87	1.69	0.95	3.46	4.03	2.59	1.75	1.33	2.01	2.97
FI0092R	zinc	2.07	1.65	4.73	2.82	3.73	2.27	1.58	1.27	2.20	4.34	1.13	2.17	2.22
FI0093R	zinc	3.05	2.27	3.39	7.39	2.05	1.82	2.53	7.65	4.87	3.38	3.31	4.09	3.26
FR0090R	zinc	1.51	4.04	4.52	3.03	3.31	2.36	1.01	1.29	2.98	1.08	2.76	1.27	2.05
GB0006R	zinc	2.61	2.36	2.75	1.76	1.95	1.11	3.92	5.80	0.50	2.31	4.80	1.50	2.43
GB0013R	zinc	3.78	4.66	7.29	10.20	6.07	3.65	7.04	2.60	0.94	2.35	9.71	12.01	5.14
GB0017R	zinc	5.62	5.62	5.62	5.69	6.00	6.00	6.00	6.07	7.44	6.08	6.30	-	6.00
GB0091R	zinc	4.22	4.45	8.80	4.58	5.43	5.34	3.98	4.72	8.04	6.05	10.67	4.82	5.81
IE0001R	zinc	115.00	148.85	17.11	12.26	21.25	5.75	3.87	8.24	16.12	5.70	5.17	4.60	31.77

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
IS0090R	zinc	3.51	6.09	7.66	30.62	4.02	6.63	8.73	4.56	4.16	7.15	2.47	3.13	7.18
IS0091R	zinc	10.04	15.83	17.33	29.80	8.42	4.82	8.63	12.24	6.92	7.68	10.51	11.93	11.86
LT0015R	zinc	141.41	142.99	93.20	387.35	293.15	143.94	33.49	154.83	92.24	101.25	78.40	275.77	135.90
LV0010R	zinc	17.66	20.63	19.99	31.14	18.36	39.98	61.14	17.91	28.77	10.76	15.45	32.12	23.91
LV0016R	zinc	37.58	18.95	18.71	18.21	12.28	11.00	10.85	15.51	8.90	17.48	24.50	22.00	16.45
NL0009R	zinc	1.95	2.52	6.50	12.70	9.89	4.41	5.09	1.95	-	6.80	6.45	9.82	4.74
NL0091R	zinc	4.70	5.00	6.10	13.79	8.21	7.65	4.70	4.40	4.24	4.43	5.42	5.04	5.57
NO0001R	zinc	4.74	2.85	4.62	18.19	5.02	1.98	2.95	1.91	0.99	2.31	6.44	4.29	4.12
NO0039R	zinc	3.55	0.61	2.59	1.46	0.96	0.45	7.15	2.00	0.26	1.35	1.56	1.21	1.25
NO0047R	zinc	9.03	10.82	7.43	7.27	9.51	4.78	4.96	8.82	4.91	5.14	5.29	4.00	6.50
NO0055R	zinc	12.29	14.30	31.02	16.99	6.41	5.65	4.07	1.27	2.48	2.10	5.27	1.82	4.03
NO0056R	zinc	4.91	2.96	8.02	76.59	16.39	2.05	4.63	2.91	2.76	7.72	10.40	8.96	10.00
PL0004R	zinc	5.02	4.36	7.54	4.66	5.61	5.82	3.45	3.79	3.44	-	8.98	8.98	4.73
PL0005R	zinc	8.21	5.48	4.23	7.84	3.54	1.60	2.42	5.70	5.73	8.16	5.41	9.72	5.06
PT0001R	zinc	3.84	-	9.00	17.00	2.00	36.00	-	10.00	21.31	5.10	243.00	16.45	17.00
PT0003R	zinc	14.21	27.75	5.22	9.05	11.39	38.98	40.00	15.64	72.00	15.54	8.38	16.52	9.09
PT0004R	zinc	13.00	4.12	6.31	7.57	5.35	-	-	-	3.99	16.07	3.00	1.00	7.68
PT0010R	zinc	10.16	7.95	71.13	-	-	-	-	-	-	-	-	-	24.83
SE0051R	zinc	8.56	4.63	6.86	13.32	12.49	3.01	2.07	3.75	19.32	18.84	5.10	6.06	6.58
SE0097R	zinc	4.01	3.68	3.58	6.90	9.55	4.20	3.09	3.41	3.33	5.58	3.45	5.75	4.33
SK0002R	zinc	-	-	31.00	21.00	25.00	16.00	28.00	-	-	-	-	-	-
SK0004R	zinc	-	-	5.00	10.00	14.00	8.00	1.07	-	-	4.17	-	-	-
SK0005R	zinc	-	-	11.00	12.00	17.00	6.00	3.06	-	1.89	-	-	-	-
SK0006R	zinc	-	-	5.00	3.00	16.00	9.00	-	-	-	-	-	-	-
SK0007R	zinc	-	-	4.00	3.00	11.00	7.00	-	-	2.02	5.34	1.34	-	-
BE0004R	mm	148.99	53.12	38.88	32.99	34.81	68.86	74.22	126.29	71.76	65.41	82.17	0.00	797.48
CZ0001R	mm	102.07	48.31	95.07	59.19	47.09	112.81	118.93	65.07	45.11	42.47	116.21	12.37	865.64
CZ0003R	mm	90.43	38.21	55.56	34.39	34.01	102.53	70.10	64.27	54.51	24.43	63.29	15.27	647.43
DE0001R	mm	90.83	44.49	33.49	21.33	13.20	70.84	45.49	87.10	98.50	73.34	66.26	67.97	711.89
DE0001R	mm (Hg)	80.51	42.67	32.13	22.80	14.89	71.00	46.50	79.06	101.60	69.70	63.74	65.59	689.16
DE0002R	mm	71.10	27.80	25.10	44.21	65.11	68.80	72.93	62.57	58.81	31.99	62.24	34.97	625.16
DE0002R	mm (Hg)	70.20	27.60	25.86	51.70	62.60	66.49	69.17	59.99	57.29	31.39	62.23	37.34	621.31
DE0003R	mm	194.83	36.51	55.76	68.24	181.76	122.36	115.24	208.60	55.64	185.17	78.46	117.01	1418.33
DE0007R	mm	65.50	38.61	24.34	25.10	21.24	46.46	92.11	71.10	38.11	29.29	49.83	32.07	532.99
DE0008R	mm	136.16	72.53	32.57	63.49	121.37	89.26	173.54	108.80	156.06	41.74	176.31	93.40	1264.40
DE0009R	mm	62.47	53.37	25.14	36.09	29.93	60.47	68.17	59.71	39.50	77.60	34.80	41.13	587.20
DE0009R	mm (Hg)	56.60	48.14	23.37	33.11	27.67	56.87	63.30	54.81	37.64	70.61	32.56	38.59	542.06

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
DK0008R	mm	54.03	1.08	33.27	27.48	26.25	53.77	65.21	108.57	41.15	93.54	49.47	41.60	595.95
DK0020R	mm	25.78	29.04	36.13	25.62	17.45	27.82	49.87	58.08	49.83	110.78	39.86	2.66	473.33
DK0022R	mm	72.00	73.61	76.95	56.37	40.32	80.99	70.41	92.33	121.53	145.20	72.52	82.04	984.95
DK0031R	mm	112.15	85.74	63.84	56.22	13.92	75.35	50.18	107.22	125.22	141.73	95.29	85.65	1013.56
EE0009R	mm	28.50	26.45	41.85	7.90	37.80	121.50	155.50	72.30	111.48	63.22	56.30	46.80	769.10
EE0011R	mm	37.02	29.47	30.61	4.00	28.30	57.60	89.10	27.60	117.00	51.30	90.80	71.90	633.93
ES0008R	mm	115.78	119.82	128.60	110.21	106.94	53.83	70.01	52.83	72.48	85.88	86.26	102.45	1105.10
ES0009R	mm	9.17	28.43	38.23	40.92	60.75	13.08	25.69	33.41	11.50	84.38	35.80	14.13	395.49
FI0008R	mm	13.30	17.70	3.90	1.60	38.50	23.20	44.90	65.90	40.80	12.60	11.50	25.40	299.10
FI0017R	mm	24.00	30.50	26.10	7.90	25.80	119.40	29.70	73.90	113.70	39.20	32.30	56.00	578.05
FI0022R	mm	30.60	41.00	20.20	12.00	46.60	36.80	71.60	62.80	81.40	28.90	29.70	35.80	497.11
FI0036R	mm	39.50	25.70	11.90	10.50	38.10	41.80	226.90	126.80	122.80	33.20	26.10	38.10	741.09
FI0053R	mm	8.20	12.70	8.80	11.20	46.30	44.70	97.40	82.00	79.80	24.20	24.40	13.50	453.09
FI0092R	mm	34.50	58.60	25.20	22.50	92.30	74.40	147.00	93.60	116.30	34.10	61.70	68.70	828.35
FI0093R	mm	45.50	38.90	31.20	7.00	55.60	122.10	191.80	41.40	94.10	37.80	37.60	73.90	776.30
FI0096G	mm	0.00	11.90	3.60	9.20	17.50	51.30	95.60	83.70	77.40	12.90	5.80	0.00	368.90
FR0090R	mm	99.00	64.16	67.51	78.59	40.41	81.43	127.45	138.22	56.81	168.72	40.89	95.81	1059.00
GB0006R	mm	194.37	70.25	124.62	105.45	98.30	172.35	134.56	109.10	187.46	151.70	109.74	183.40	1639.33
GB0013R	mm	251.04	67.48	137.66	100.54	54.43	27.99	39.56	163.85	58.03	249.11	46.69	90.13	1287.74
GB0017R	mm	61.42	57.46	61.42	62.64	86.24	83.46	86.24	83.17	46.60	73.61	31.67	0.00	734.57
GB0091R	mm	20.75	3.64	48.63	125.31	44.83	96.65	41.93	138.43	29.91	168.80	54.51	36.44	810.70
IE0001R	mm	174.00	84.19	158.67	84.39	41.04	98.28	80.68	102.84	154.77	208.40	69.41	110.32	1367.00
IS0090R	mm	36.50	42.60	98.90	78.43	79.07	49.50	63.04	68.66	170.72	84.18	105.70	93.50	970.80
IS0091R	mm	117.89	74.51	195.40	110.50	66.39	102.41	96.61	121.49	265.80	75.80	225.30	155.00	1607.10
LT0015R	mm	30.46	47.76	40.06	25.94	31.20	62.10	38.43	36.27	118.54	114.94	68.81	40.99	654.72
LV0010R	mm	36.34	50.59	54.10	9.90	34.00	44.50	34.31	48.63	92.06	108.40	77.37	58.81	649.01
LV0016R	mm	22.81	48.69	50.94	15.80	43.46	109.96	50.46	88.33	68.31	102.86	57.33	65.27	724.21
NL0009R	mm	80.42	51.13	42.73	21.62	19.45	83.45	134.80	112.80	22.69	77.86	61.04	54.07	761.99
NL0091R	mm	85.18	67.81	48.52	31.16	24.93	55.76	109.74	14.33	72.61	87.59	56.67	65.86	720.06
NL0091R	mm (Hg)	94.04	59.04	37.34	22.96	24.11	5.93	91.86	109.50	60.91	74.21	56.67	48.10	684.69
NO0001R	mm	223.82	37.61	115.51	104.14	71.08	146.66	101.50	213.12	123.82	334.90	82.96	156.85	1709.33
NO0001R	mm (Hg)	-	-	121.20	88.30	70.40	151.40	99.10	215.20	128.70	361.20	70.60	126.00	1432.10
NO0039R	mm	34.08	251.34	31.72	76.05	190.16	158.76	60.03	66.59	295.64	57.64	294.87	260.10	1775.24
NO0047R	mm	18.41	23.40	12.61	24.68	32.01	61.12	60.51	35.70	42.71	25.26	14.08	16.11	366.53
NO0055R	mm	14.49	8.89	1.24	7.68	8.31	24.30	57.52	91.72	43.15	15.41	14.46	25.13	312.24
NO0056R	mm	88.03	29.87	51.08	54.40	39.08	79.20	64.24	158.22	95.99	127.52	66.80	50.59	904.14
PL0004R	mm	39.61	48.98	36.27	22.45	20.40	53.50	102.60	147.20	111.70	113.00	75.35	55.45	826.50
PL0005R	mm	35.30	51.49	47.01	29.30	69.57	116.83	67.66	90.01	32.63	77.36	63.77	36.07	717.00
SE0014R	mm	48.40	3.40	28.10	13.90	58.80	100.60	71.00	0.00	72.30	72.20	55.60	29.60	553.90
SE0051R	mm	70.91	46.00	58.16	4.84	25.00	101.45	75.36	55.16	29.03	25.00	36.00	21.00	548.52
SE0097R	mm	66.46	50.86	70.68	42.11	31.89	79.00	104.27	111.96	170.50	146.55	104.87	111.86	1091.00

Site	Comp	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SK0002R	mm	71.80	118.60	49.90	63.00	136.80	164.00	185.50	133.90	32.00	46.30	43.20	32.00	1077.00
SK0004R	mm	23.20	66.10	37.10	73.20	135.80	89.80	146.20	60.90	35.10	58.40	45.90	14.50	786.20
SK0005R	mm	24.20	70.60	50.60	55.70	79.60	136.30	171.30	52.30	50.70	45.70	53.10	12.20	802.30
SK0006R	mm	52.40	87.20	32.60	61.30	98.30	108.70	174.40	154.50	64.50	33.30	33.70	21.00	921.90
SK0007R	mm	32.80	36.80	56.60	35.50	57.60	147.30	21.70	30.70	30.50	28.50	29.00	22.10	529.10
PT0001R	mm	43.90	4.70	48.30	15.30	23.20	21.50	6.00	33.00	24.70	164.70	17.40	53.10	455.80
PT0003R	mm	158.20	38.70	1354.70	104.80	53.80	22.00	16.30	117.50	16.90	222.50	24.30	103.30	2233.00
PT0004R	mm	31.70	56.10	42.10	30.60	18.50	0.00	0.00	3.70	43.80	82.20	12.30	36.00	357.00
PT0010R	mm	121.76	158.27	97.27	33.76	15.56	30.83	14.19	15.10	19.16	63.43	40.81	29.90	641.41

Annex 6

Monthly and annual mean values for heavy metals in air

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
DK0011G	aluminium	aerosol	-2.08	4.93	3.38	9.05	32.02	62.86	28.15	34.40	25.87	5.22	1.32	6.61	18.09
IS0091R	aluminium	aerosol	956.97	600.94	212.59	451.60	884.51	360.35	37.55	153.55	550.95	2183.20	632.90	79.39	581.46
AT0002R	arsenic	pm1	1.05	0.40	0.55	-	-	-	-	-	-	-	-	-	-
AT0002R	arsenic	pm10	1.67	1.03	0.98	-	-	-	-	-	-	-	-	-	-
AT0002R	arsenic	pm25	1.40	0.73	0.80	-	-	-	-	-	-	-	-	-	-
DE0001R	arsenic	aerosol	-	-	-	-	-	0.98	0.71	0.81	0.44	0.59	1.46	1.41	
DE0002R	arsenic	aerosol	0.91	0.57	0.78	0.63	0.31	0.28	0.29	0.42	0.28	0.45	0.38	0.49	0.48
DE0003R	arsenic	aerosol	-	-	-	-	-	0.14	0.16	0.16	0.20	0.11	0.14	0.05	-
DE0007R	arsenic	aerosol	1.75	0.82	0.83	0.80	0.40	0.27	0.33	0.45	0.47	0.73	0.57	0.92	0.69
DE0008R	arsenic	aerosol	-	-	-	-	-	0.23	0.23	0.32	0.27	0.23	0.17	0.16	-
DE0009R	arsenic	aerosol	-	-	-	-	-	0.24	0.22	0.42	0.22	0.49	0.44	0.66	-
DK0003R	arsenic	aerosol	1.04	0.62	0.76	0.72	0.40	0.42	0.33	0.60	0.54	1.00	0.79	0.45	0.64
DK0008R	arsenic	aerosol	0.53	0.27	0.32	0.46	0.30	0.34	0.25	0.32	0.31	0.26	0.28	0.29	0.33
DK0011G	arsenic	aerosol	0.01	0.01	0.01	0.03	0.01	0.01	0.06	0.05	0.01	0.00	0.00	0.01	0.02
DK0031R	arsenic	aerosol	0.49	0.23	0.33	0.27	0.18	0.09	0.20	0.24	0.18	0.37	0.24	0.24	0.26
ES0008R	arsenic	aerosol	-	-	-	-	-	-	0.09	-	-	-	-	0.23	-
ES0009R	arsenic	aerosol	-	-	-	-	-	-	0.18	-	-	-	-	-	-
FI0036R	arsenic	aerosol	0.19	0.25	0.24	0.19	0.12	0.06	0.09	0.07	0.05	0.07	0.03	0.04	0.12
GB0013R	arsenic	pm10	0.43	0.98	0.80	0.56	0.70	0.30	0.33	0.39	0.54	0.48	0.52	0.71	0.56
GB0017R	arsenic	pm10	-	-	-	0.91	0.58	-	-	0.78	0.48	0.65	1.90	-	-
GB0091R	arsenic	pm10	0.43	0.38	0.38	0.21	0.23	0.15	0.16	0.56	-	-	-	0.25	0.28
IS0091R	arsenic	aerosol	0.23	0.22	0.29	0.21	0.21	0.14	0.10	0.22	0.25	0.17	0.12	0.14	0.19
LV0016R	arsenic	aerosol	0.48	0.29	0.21	0.26	0.30	0.13	0.15	0.35	0.16	0.28	0.20	0.63	0.29
NL0009R	arsenic	aerosol	0.40	0.47	0.77	0.43	0.38	0.42	0.32	0.54	0.47	0.46	0.44	0.63	0.48
NO0001R	arsenic	pm10	0.39	0.15	0.26	0.39	0.17	0.16	0.18	0.26	0.17	0.20	0.13	0.14	0.21
NO0042G	arsenic	aerosol	0.25	0.12	0.13	0.12	0.04	0.02	0.01	0.01	0.01	0.01	0.11	0.05	0.07
SE0014R	arsenic	aerosol	0.81	0.49	0.46	0.98	0.51	0.35	0.31	0.49	0.44	0.60	0.56	0.35	0.53
SI0008R	arsenic	pm10	-	-	-	-	-	-	-	-	-	-	0.09	0.19	-
SK0002R	arsenic	aerosol	0.04	0.07	0.10	0.30	0.19	0.11	0.12	0.36	0.26	0.21	0.25	0.22	0.19
SK0004R	arsenic	aerosol	0.79	0.75	0.92	0.65	0.30	0.46	0.37	0.49	0.58	0.83	1.45	-	0.66
SK0005R	arsenic	aerosol	4.90	3.26	2.23	1.44	0.96	0.61	0.67	0.82	1.49	2.30	1.45	3.49	1.94
SK0006R	arsenic	aerosol	0.66	0.61	0.92	0.64	0.35	0.31	0.27	0.37	0.50	0.74	1.00	1.12	0.60
SK0007R	arsenic	aerosol	1.86	1.06	1.36	1.11	0.35	0.39	0.38	0.62	0.53	1.29	1.28	1.74	0.98
AT0002R	cadmium	pm1	0.250	0.167	0.225	-	-	-	-	-	-	-	-	-	-
AT0002R	cadmium	pm10	0.388	0.233	0.355	0.184	0.200	0.077	0.112	0.116	0.178	0.224	0.360	0.268	0.229
AT0002R	cadmium	pm25	0.333	0.200	0.308	-	-	-	-	-	-	-	-	-	-
AT0005R	cadmium	pm10	0.063	0.067	0.250	0.060	0.110	0.120	0.110	0.250	0.200	0.130	0.050	0.050	0.125
AT0048R	cadmium	pm10	0.067	0.063	0.175	0.100	0.200	0.050	0.063	0.060	0.100	0.050	0.050	0.050	0.087

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CZ0001R	cadmium	aerosol	0.202	0.240	0.380	0.433	0.190	0.155	0.183	0.206	0.255	0.249	0.309	0.260	0.255
CZ0003R	cadmium	aerosol	0.206	0.240	0.306	0.437	0.174	0.150	0.104	0.158	0.201	0.284	0.233	0.242	0.225
DE0001R	cadmium	aerosol	0.109	0.105	0.087	0.065	0.038	0.054	0.048	0.070	0.065	0.124	0.111	0.076	0.079
DE0002R	cadmium	aerosol	0.289	0.226	0.243	0.253	0.091	0.074	0.064	0.101	0.079	0.164	0.164	0.189	0.159
DE0003R	cadmium	aerosol	0.036	0.048	0.068	0.044	0.030	0.079	0.063	0.059	0.091	0.037	0.058	0.023	0.053
DE0007R	cadmium	aerosol	0.470	0.212	0.259	0.300	0.126	0.067	0.082	0.114	0.157	0.262	0.212	0.295	0.212
DE0009R	cadmium	aerosol	0.640	0.292	0.272	0.242	0.094	0.113	0.063	0.113	0.059	0.224	0.144	0.179	0.197
DK0003R	cadmium	aerosol	0.282	0.110	0.097	0.209	0.127	0.071	0.150	0.106	0.145	0.297	0.049	0.192	0.154
DK0008R	cadmium	aerosol	0.208	0.050	0.068	0.307	0.055	0.057	0.097	0.101	0.002	0.239	0.091	0.156	0.120
DK0031R	cadmium	aerosol	0.174	0.001	0.131	0.130	0.006	0.136	0.167	0.040	0.043	0.216	-0.016	0.070	0.098
ES0008R	cadmium	aerosol	-	-	-	-	-	-	0.029	-	-	-	-	0.056	-
ES0008R	cadmium	pm10	0.035	0.143	0.327	0.080	0.260	0.100	0.065	0.025	0.042	0.050	0.108	0.040	0.091
ES0009R	cadmium	aerosol	-	-	-	-	-	-	0.040	-	-	-	-	-	-
ES0009R	cadmium	pm10	0.032	0.085	0.098	0.077	0.047	0.037	0.032	0.020	0.028	0.047	0.025	0.022	0.046
FI0036R	cadmium	aerosol	0.072	0.044	0.057	0.076	0.060	0.013	0.021	0.017	0.015	0.016	0.007	0.012	0.034
GB0013R	cadmium	pm10	0.030	0.057	0.137	0.075	0.089	0.032	0.171	0.040	0.030	0.071	0.052	0.118	0.075
GB0017R	cadmium	pm10	-	-	-	0.364	0.139	-	-	0.141	0.082	0.161	0.471	-	-
GB0091R	cadmium	pm10	0.030	0.030	0.054	0.040	0.030	0.070	0.043	0.139	-	-	-	0.054	0.046
IS0091R	cadmium	aerosol	0.016	0.030	0.021	0.058	0.170	0.139	0.083	0.350	0.282	0.137	0.028	0.081	0.118
LT0015R	cadmium	aerosol	0.238	0.220	0.290	0.412	0.129	0.095	0.059	0.113	0.136	0.253	0.200	0.147	0.191
LV0010R	cadmium	aerosol	0.284	0.228	0.205	0.307	0.103	0.159	0.072	0.230	0.155	0.115	0.110	0.105	0.171
LV0016R	cadmium	aerosol	0.244	0.133	0.108	0.207	0.118	0.047	0.064	0.131	0.118	0.143	0.114	0.172	0.133
NL0009R	cadmium	aerosol	0.164	0.143	0.228	0.158	0.096	0.066	0.062	0.132	0.163	0.164	0.130	0.240	0.146
NO0001R	cadmium	pm10	0.061	0.024	0.043	0.110	0.066	0.016	0.021	0.043	0.026	0.081	0.025	0.026	0.045
NO0042G	cadmium	aerosol	0.036	0.032	0.052	0.027	0.013	0.004	0.001	0.001	0.005	0.002	0.016	0.026	0.018
SE0014R	cadmium	aerosol	0.164	0.091	0.118	0.215	0.109	0.050	0.041	0.075	0.154	0.207	0.092	0.057	0.114
SI0008R	cadmium	pm10	-	-	-	-	-	-	-	-	-	-	0.059	0.060	-
SK0002R	cadmium	aerosol	0.026	0.052	0.104	0.113	0.088	0.075	0.068	0.090	0.125	0.070	0.051	0.012	0.073
SK0004R	cadmium	aerosol	0.298	0.246	0.351	0.385	0.202	0.111	0.150	0.175	0.235	0.280	0.332	-	0.247
SK0005R	cadmium	aerosol	0.582	0.477	0.552	0.555	0.349	0.270	0.239	0.272	0.437	0.399	0.382	0.507	0.413
SK0006R	cadmium	aerosol	1.045	0.404	0.722	0.838	0.247	0.322	0.237	0.248	0.599	0.684	0.558	0.551	0.512
SK0007R	cadmium	aerosol	0.653	0.282	0.409	0.352	0.175	0.124	0.161	0.131	0.227	0.399	0.379	0.330	0.292
DK0003R	chromium	aerosol	0.51	0.41	-0.74	0.54	0.32	0.26	0.20	0.53	0.18	3.12	0.17	0.35	0.49
DK0008R	chromium	aerosol	0.30	0.19	0.35	0.83	0.39	0.16	0.18	0.27	0.21	-0.42	-0.07	0.16	0.21
DK0011G	chromium	aerosol	-0.02	0.06	0.06	0.04	0.07	0.12	0.08	0.12	0.10	0.03	0.03	0.01	0.06
DK0031R	chromium	aerosol	0.30	0.21	0.37	0.33	0.24	-0.02	0.02	0.24	0.12	-0.11	0.36	0.24	0.19
ES0008R	chromium	aerosol	-	-	-	-	-	-	0.92	-	-	-	-	0.78	-
ES0009R	chromium	aerosol	-	-	-	-	-	-	1.89	-	-	-	-	-	-
FI0036R	chromium	aerosol	0.12	0.11	0.17	0.14	0.08	0.10	0.16	0.01	0.04	0.08	0.02	0.05	0.09

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GB0013R	chromium	pm10	0.70	1.25	0.83	1.11	1.23	1.24	1.43	1.42	0.89	1.39	1.32	1.63	1.20
GB0017R	chromium	pm10	-	-	-	1.66	1.48	-	-	1.19	1.41	1.61	2.49	-	-
GB0091R	chromium	pm10	0.97	1.14	1.00	0.94	1.19	1.03	0.98	1.41	-	-	-	1.04	1.05
IS0091R	chromium	aerosol	3.62	14.13	21.14	7.75	12.61	9.26	11.54	25.97	11.86	6.82	3.10	3.07	10.88
NO0001R	chromium	pm10	1.02	0.40	0.32	0.34	0.14	0.14	0.13	0.35	0.20	0.13	0.14	0.24	0.29
NO0042G	chromium	aerosol	0.12	0.09	0.21	0.16	0.05	0.05	0.06	0.09	0.14	0.13	0.04	0.12	0.11
SI0008R	chromium	pm10	-	-	-	-	-	-	-	-	-	-	1.66	1.92	-
SK0002R	chromium	aerosol	3.49	1.91	3.48	0.83	0.78	0.29	0.06	1.07	1.32	0.20	0.98	0.53	1.05
SK0004R	chromium	aerosol	1.01	0.81	1.03	1.53	0.90	3.07	1.06	1.45	2.33	1.55	0.49	-	1.38
SK0005R	chromium	aerosol	0.50	0.91	0.96	0.94	0.38	0.49	0.52	0.65	0.47	0.06	0.21	1.07	0.60
SK0006R	chromium	aerosol	0.59	0.60	0.62	0.39	0.34	0.86	1.07	1.14	0.44	0.59	0.47	0.26	0.62
SK0007R	chromium	aerosol	1.49	1.88	1.05	1.25	1.20	0.71	0.89	1.50	1.48	0.55	1.11	1.78	1.23
NO0001R	cobalt	pm10	0.02	0.03	0.03	0.04	0.03	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.02
NO0042G	cobalt	aerosol	0.01	0.01	0.24	0.04	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.04	0.04
DE0001R	copper	aerosol	2.25	1.26	0.93	0.96	1.46	1.94	1.48	2.15	2.13	2.42	1.84	0.96	1.65
DE0002R	copper	aerosol	3.17	2.67	2.97	2.80	1.60	1.62	1.61	2.20	2.14	2.92	2.68	3.46	2.47
DE0003R	copper	aerosol	0.51	0.77	1.47	1.60	1.74	0.65	2.07	1.81	1.97	0.96	0.36	0.79	1.24
DE0007R	copper	aerosol	3.48	2.69	2.61	2.47	1.60	1.30	1.93	1.70	2.84	3.55	2.99	4.30	2.61
DE0008R	copper	aerosol	1.10	1.99	2.83	2.08	2.69	1.76	1.81	1.74	2.32	2.28	1.73	1.64	2.01
DE0009R	copper	aerosol	1.28	0.44	1.17	1.62	0.67	0.33	0.50	1.41	1.65	2.14	2.30	3.66	1.42
DK0003R	copper	aerosol	3.44	1.23	0.86	1.96	0.73	0.93	1.06	1.58	1.71	1.56	1.37	2.44	1.54
DK0008R	copper	aerosol	1.12	0.56	0.92	2.04	0.25	0.70	0.68	1.03	1.19	1.06	1.33	1.65	1.03
DK0011G	copper	aerosol	0.09	0.16	0.26	0.22	0.28	0.30	0.17	0.17	0.10	0.30	0.29	0.02	0.20
DK0031R	copper	aerosol	2.13	0.50	0.76	0.84	0.10	0.21	0.48	0.72	1.13	1.04	0.92	0.80	0.80
ES0008R	copper	aerosol	-	-	-	-	-	-	26.62	-	-	-	-	18.01	-
ES0008R	copper	pm10	13.88	7.43	39.53	3.70	21.80	26.95	38.43	21.30	13.40	18.33	26.40	18.53	21.70
ES0009R	copper	aerosol	-	-	-	-	-	-	62.36	-	-	-	-	-	-
ES0009R	copper	pm10	6.45	40.55	59.28	18.23	23.20	74.90	103.90	50.75	29.03	14.53	53.98	5.53	39.82
FI0036R	copper	aerosol	0.35	0.64	0.54	0.58	0.29	0.18	0.42	0.24	0.22	0.20	0.08	0.11	0.32
GB0013R	copper	pm10	0.59	2.29	1.39	1.46	3.26	4.86	1.11	1.30	1.65	1.77	1.49	2.41	1.96
GB0017R	copper	pm10	-	-	-	6.84	2.46	-	-	2.64	2.78	2.88	7.59	-	-
GB0091R	copper	pm10	0.38	0.57	1.09	1.02	2.18	0.57	0.71	5.03	-	-	-	1.76	1.14
IS0091R	copper	aerosol	1.44	1.10	0.86	1.45	1.95	0.84	0.40	1.17	1.48	1.71	0.76	0.43	1.11
LT0015R	copper	aerosol	1.10	1.33	1.33	1.48	1.25	1.30	0.93	1.52	2.07	2.79	2.03	2.33	1.62
LV0010R	copper	aerosol	0.82	0.97	0.93	1.02	0.56	0.51	0.55	1.22	1.24	0.81	0.54	0.65	0.82
LV0016R	copper	aerosol	0.91	0.83	0.65	0.55	0.37	0.36	0.40	0.85	1.01	1.65	0.73	0.99	0.78
NO0001R	copper	pm10	2.47	1.38	0.68	0.94	0.41	0.65	0.27	0.70	0.35	0.54	1.11	0.79	0.84
NO0042G	copper	aerosol	0.19	0.24	1.06	0.26	0.15	0.10	0.24	0.17	0.38	0.17	0.29	0.48	0.31
SI0008R	copper	pm10	-	-	-	-	-	-	-	-	-	-	1.58	1.61	-

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SK0002R	copper	aerosol	0.48	0.28	0.50	0.69	0.24	0.22	0.48	0.58	0.36	0.09	0.56	0.41	0.41
SK0004R	copper	aerosol	2.48	1.03	1.43	2.45	1.36	1.88	1.41	1.06	1.03	1.72	3.27	-	1.69
SK0005R	copper	aerosol	1.92	1.88	2.25	2.25	1.67	1.53	1.90	1.97	1.76	2.66	1.90	2.93	2.06
SK0006R	copper	aerosol	1.96	1.72	1.44	1.05	1.36	1.50	1.31	1.61	1.66	1.72	3.23	2.60	1.73
SK0007R	copper	aerosol	3.17	2.70	3.44	3.91	1.55	1.92	2.36	3.11	2.94	3.79	3.04	4.24	2.99
DE0001R	iron	aerosol	40.15	58.69	44.23	35.70	58.00	39.23	69.26	109.03	82.53	78.65	64.50	37.04	60.33
DE0002R	iron	aerosol	101.19	180.07	140.03	170.70	106.68	87.77	75.19	152.29	119.63	115.52	90.40	121.26	121.75
DE0003R	iron	aerosol	55.15	124.10	184.65	68.07	75.77	17.37	95.97	61.84	89.77	66.39	16.07	133.82	82.37
DE0007R	iron	aerosol	57.48	88.59	81.61	111.67	62.26	45.07	30.29	80.16	124.40	90.03	63.73	118.41	78.82
DE0008R	iron	aerosol	38.35	108.00	98.26	111.10	116.48	86.07	69.29	97.00	82.03	52.00	17.90	26.22	76.12
DE0009R	iron	aerosol	51.81	61.10	77.29	81.10	66.97	52.23	28.07	77.45	63.20	67.71	54.27	69.75	62.68
DK0003R	iron	aerosol	58.01	91.08	74.15	150.31	154.55	139.77	93.62	246.97	114.21	58.37	38.91	35.64	104.33
DK0008R	iron	aerosol	30.24	33.57	50.48	102.18	110.50	43.41	34.85	75.56	61.30	36.46	22.86	30.86	52.70
DK0011G	iron	aerosol	2.33	5.41	2.76	9.45	23.63	47.18	20.38	39.51	27.08	8.76	1.53	7.22	16.64
DK0031R	iron	aerosol	30.56	61.76	42.43	74.56	70.27	23.05	34.14	81.93	58.90	49.39	32.05	26.28	50.08
FI0036R	iron	aerosol	19.03	24.21	31.53	45.38	42.37	19.89	50.99	15.62	10.40	13.71	14.36	10.33	24.86
IS0091R	iron	aerosol	1351.96	898.44	294.62	606.50	1164.96	525.35	89.57	324.77	762.50	2613.26	114.50	102.73	725.11
AT0002R	lead	pm1	8.98	6.23	8.55	-	-	-	-	-	-	-	-	-	-
AT0002R	lead	pm10	14.23	6.37	12.23	8.94	7.54	3.20	3.74	4.06	5.48	9.20	12.82	8.38	8.25
AT0002R	lead	pm25	12.37	5.70	10.80	-	-	-	-	-	-	-	-	-	-
AT0005R	lead	pm10	3.93	2.60	8.62	1.98	3.36	4.16	2.82	3.54	4.62	3.78	2.06	1.52	3.61
AT0048R	lead	pm10	2.96	3.13	5.67	2.53	2.72	2.08	1.73	2.56	2.32	1.88	2.46	1.26	2.68
CZ0001R	lead	aerosol	7.51	9.07	15.08	13.94	6.94	6.04	5.36	6.68	6.72	8.77	9.25	8.01	8.56
CZ0003R	lead	aerosol	5.96	6.85	8.88	12.52	5.34	4.55	3.58	5.35	5.21	6.98	7.52	6.67	6.54
DE0001R	lead	aerosol	6.26	5.87	5.61	3.33	2.36	2.48	1.66	2.84	3.27	4.68	4.09	3.83	3.82
DE0002R	lead	aerosol	15.67	10.26	11.06	10.25	4.08	4.20	3.83	5.39	4.12	8.83	8.35	10.17	7.89
DE0003R	lead	aerosol	0.91	2.99	3.37	3.05	2.89	1.46	2.98	2.36	3.17	1.52	2.80	0.96	2.40
DE0007R	lead	aerosol	18.10	8.20	9.38	9.00	3.70	3.05	3.02	4.13	4.90	9.10	8.32	11.48	7.69
DE0008R	lead	aerosol	2.68	3.90	5.28	5.55	8.59	3.05	2.62	3.47	3.52	4.19	2.83	2.24	4.04
DE0009R	lead	aerosol	12.60	5.03	7.48	7.44	2.93	2.50	1.84	3.24	2.26	7.31	5.77	7.40	5.38
DK0003R	lead	aerosol	10.04	3.74	5.58	5.87	3.82	2.32	2.44	3.41	3.78	5.38	3.76	5.27	4.61
DK0008R	lead	aerosol	7.22	2.48	4.06	7.26	3.52	1.97	2.00	3.38	2.86	5.11	3.10	3.93	3.91
DK0011G	lead	aerosol	0.19	0.28	0.16	0.48	0.45	0.54	0.14	0.23	0.05	0.17	0.13	0.12	0.25
DK0031R	lead	aerosol	6.01	2.09	3.70	3.19	2.05	0.99	1.48	2.19	2.97	4.81	2.88	3.53	3.03
ES0008R	lead	aerosol	-	-	-	-	-	-	2.06	-	-	-	-	6.04	-
ES0008R	lead	pm10	1.10	6.47	11.14	4.72	18.52	9.18	3.36	2.56	3.55	1.39	26.03	3.90	7.04
ES0009R	lead	aerosol	-	-	-	-	-	-	2.10	-	-	-	-	-	-
ES0009R	lead	pm10	0.63	1.98	1.76	0.76	2.71	2.66	2.60	1.45	1.69	0.99	2.24	0.74	1.68
FI0036R	lead	aerosol	1.81	1.02	1.68	1.51	1.34	0.41	0.70	0.41	0.39	0.43	0.25	0.36	0.86

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GB0013R	lead	pm10	2.61	8.16	5.18	4.69	8.76	2.45	2.78	2.69	1.80	3.82	4.79	5.55	4.43
GB0017R	lead	pm10	-	-	-	13.86	7.88	-	-	7.46	5.66	8.45	30.18	-	-
GB0091R	lead	pm10	1.69	3.45	2.93	2.19	2.19	2.92	1.36	4.91	-	-	-	2.16	2.44
IS0091R	lead	aerosol	0.48	0.36	0.50	0.40	1.47	1.37	0.45	1.90	1.49	1.36	0.62	0.54	0.92
LT0015R	lead	aerosol	7.47	6.87	8.61	9.08	5.56	2.81	2.85	5.04	3.89	7.20	5.87	4.98	5.86
LV0010R	lead	aerosol	2.91	2.07	4.66	9.01	10.20	3.16	2.22	7.11	3.98	3.27	2.38	2.16	4.44
LV0016R	lead	aerosol	2.99	1.25	2.60	4.14	3.35	1.34	1.16	2.43	2.41	4.84	1.97	3.69	2.69
NL0009R	lead	aerosol	7.75	6.15	7.99	6.51	4.77	3.38	3.58	4.73	5.71	7.40	5.64	11.42	6.27
NO0001R	lead	pm10	4.44	0.70	1.37	3.14	2.18	0.71	0.81	1.55	1.12	1.93	0.81	1.18	1.63
NO0042G	lead	aerosol	1.55	0.94	1.65	0.93	0.39	0.11	0.06	0.04	0.43	0.08	0.58	0.60	0.63
SE0014R	lead	aerosol	5.52	2.82	4.34	10.10	3.85	1.72	1.46	3.08	2.71	5.08	2.46	2.89	3.81
SI0008R	lead	pm10	-	-	-	-	-	-	-	-	-	-	2.45	3.71	-
SK0002R	lead	aerosol	0.94	1.45	3.83	3.35	2.77	2.37	2.55	3.97	4.25	1.87	1.18	0.30	2.37
SK0004R	lead	aerosol	11.22	7.89	10.91	11.45	8.07	6.00	6.53	7.52	7.71	6.78	9.88	-	8.48
SK0005R	lead	aerosol	12.53	15.35	16.55	13.84	11.75	9.94	8.36	8.18	11.44	11.13	9.13	13.81	11.76
SK0006R	lead	aerosol	22.23	14.14	17.79	13.41	9.76	9.74	8.36	8.71	15.39	14.58	14.41	10.06	12.80
SK0007R	lead	aerosol	23.11	14.27	17.47	15.51	9.46	9.09	7.95	6.73	9.63	14.23	5.36	11.90	11.93
DE0001R	manganese	aerosol	1.49	1.54	1.52	1.20	1.66	1.32	1.77	3.22	2.36	2.11	1.66	1.20	1.77
DE0002R	manganese	aerosol	3.64	4.67	4.87	5.66	3.23	2.90	2.64	5.19	3.88	3.90	3.07	4.11	3.98
DE0003R	manganese	aerosol	0.92	2.17	3.06	1.40	1.50	0.52	2.43	1.55	2.20	1.35	0.68	2.55	1.70
DE0007R	manganese	aerosol	2.60	2.85	3.69	4.62	3.03	2.44	2.01	3.93	4.93	3.88	2.96	4.42	3.43
DE0008R	manganese	aerosol	2.17	3.30	3.25	3.67	3.36	3.10	1.92	2.65	2.37	1.64	1.02	0.99	2.47
DE0009R	manganese	aerosol	2.50	2.19	2.68	3.48	2.50	2.08	1.24	2.96	2.31	3.07	2.27	2.40	2.47
DK0003R	manganese	aerosol	2.94	3.16	2.44	5.44	4.96	4.49	3.30	8.13	4.67	2.65	2.00	1.64	3.81
DK0008R	manganese	aerosol	1.22	1.50	1.86	3.30	3.90	1.44	1.31	2.72	2.13	1.47	1.12	1.07	1.92
DK0011G	manganese	aerosol	0.04	0.11	0.06	0.24	0.54	0.86	0.39	0.70	0.40	0.15	0.02	0.14	0.31
DK0031R	manganese	aerosol	1.19	1.55	1.81	2.62	2.16	0.85	1.14	3.21	2.23	1.82	1.54	0.96	1.80
FI0036R	manganese	aerosol	0.63	0.42	0.74	1.23	1.22	0.95	1.28	0.46	0.35	0.26	0.17	0.25	0.66
IS0091R	manganese	aerosol	19.83	15.10	5.06	10.84	20.95	9.73	1.59	6.24	13.50	16.40	6.15	1.93	10.35
LV0010R	manganese	aerosol	3.64	2.31	1.82	8.23	7.49	5.14	6.55	10.68	3.32	2.22	1.39	1.17	4.55
LV0016R	manganese	aerosol	3.46	3.50	3.31	17.62	16.65	10.16	18.43	23.47	4.24	3.73	3.38	4.53	9.41
NO0042G	manganese	aerosol	0.23	0.23	0.41	0.79	0.42	0.15	0.17	0.32	0.32	0.41	0.37	0.76	0.40
SK0002R	manganese	aerosol	1.00	1.29	1.75	1.44	1.43	1.74	1.81	2.36	2.31	1.08	1.23	0.30	1.47
SK0004R	manganese	aerosol	2.74	2.71	4.93	5.40	3.85	4.93	3.77	3.86	3.95	4.10	3.89	-	4.02
SK0005R	manganese	aerosol	25.46	11.09	23.51	20.95	15.26	24.09	19.04	14.47	13.84	24.20	18.47	34.97	20.21
SK0006R	manganese	aerosol	2.70	3.08	5.83	4.96	3.96	4.18	4.02	4.03	3.76	2.90	3.27	3.10	3.86
SK0007R	manganese	aerosol	5.42	5.66	7.78	7.36	7.17	4.66	6.80	7.13	9.33	6.38	5.88	4.27	6.49
DK0011G	mercury	air	1.5	1.5	1.3	1.3	1.4	1.4	1.5	1.4	1.3	1.5	1.4	1.2	1.4
ES0008R	mercury	aerosol	-	-	-	-	6.7	-	-	-	-	-	-	-	-

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
FI0096G	mercury	aerosol	1.9	2.0	3.5	6.0	4.2	1.1	2.5	2.3	1.3	0.8	0.7	0.8	2.2
FI0096G	mercury	air+aerosol	1.4	1.5	1.5	1.4	1.7	1.6	1.5	1.3	1.2	1.2	1.3	1.4	1.4
GB0017R	mercury	pm10	-	-	-	1.7	1.7	1.5	1.6	1.6	1.7	2.0	-	-	-
GB0091R	mercury	pm10	-	-	-	-	-	-	1.3	1.3	1.4	1.0	1.5	1.4	1.3
IS0091R	mercury	aerosol	3.8	4.0	3.2	5.1	2.6	3.6	1.4	4.5	3.4	3.3	8.0	2.1	3.7
NO0001R	mercury	air	-	-	7.2	11.7	13.3	5.1	24.3	13.0	10.3	8.3	9.9	1.9	9.8
NO0042G	mercury	air	1.7	1.6	1.7	1.5	1.3	1.6	1.5	1.5	1.4	1.4	1.4	1.5	1.5
NO0090R	mercury	air	-	-	1.8	1.6	1.4	1.7	1.7	1.6	1.7	1.7	1.7	1.6	1.7
PL0005R	mercury	air	6.2	2.8	2.1	3.5	1.9	2.4	2.2	0.7	2.3	0.2	0.1	0.3	1.8
SE0014R	mercury	aerosol	13.9	15.9	19.5	17.5	14.2	13.1	8.7	8.6	9.3	11.2	13.3	9.4	13.2
SE0014R	mercury	air+aerosol	1.7	1.8	1.6	1.5	1.8	1.7	1.6	1.7	1.4	1.4	1.5	1.6	1.6
DE0002R	mercury, TGM	air	2.1	1.8	2.2	2.1	1.7	1.9	1.9	2.1	1.8	1.9	1.9	2.1	2.0
DE0007R	mercury, TGM	air	-	-	-	2.4	2.0	1.7	1.7	1.8	1.5	1.4	1.6	1.8	1.8
DE0009R	mercury, TGM	air	2.0	1.8	1.8	1.8	1.6	1.5	1.5	1.4	1.5	1.6	1.7	1.8	1.6
AT0002R	nickel	pm1	0.95	0.80	1.02	-	-	-	-	-	-	-	-	-	-
AT0002R	nickel	pm10	2.53	1.98	2.10	-	-	-	-	-	-	-	-	-	-
AT0002R	nickel	pm25	1.87	1.81	1.73	-	-	-	-	-	-	-	-	-	-
DE0001R	nickel	aerosol	1.26	1.00	0.93	1.07	0.83	1.44	1.92	1.88	1.30	1.32	1.67	1.37	1.35
DE0002R	nickel	aerosol	1.19	1.37	1.15	1.03	0.71	0.93	0.88	0.74	0.77	0.99	0.94	1.36	1.00
DE0003R	nickel	aerosol	1.05	0.24	0.40	0.23	0.35	0.41	0.75	0.77	0.55	0.75	0.68	0.38	0.54
DE0007R	nickel	aerosol	0.74	0.83	0.79	0.69	0.64	0.51	0.54	0.67	1.32	1.27	1.13	1.99	0.92
DE0008R	nickel	aerosol	0.50	1.28	0.69	1.56	0.76	1.58	0.77	0.77	1.39	0.56	0.50	0.86	0.94
DE0009R	nickel	aerosol	0.92	1.43	1.68	2.25	1.84	1.53	1.81	1.61	1.22	1.23	1.37	1.92	1.57
DK0003R	nickel	aerosol	1.18	1.07	1.35	1.70	1.08	1.03	1.00	1.40	1.07	0.91	0.75	1.07	1.13
DK0008R	nickel	aerosol	1.57	1.55	2.08	3.43	1.89	2.23	2.03	2.71	1.63	1.22	0.97	1.18	1.87
DK0011G	nickel	aerosol	0.07	0.06	0.11	0.01	0.16	0.13	0.13	0.10	0.11	0.09	0.04	0.06	0.09
DK0031R	nickel	aerosol	0.82	2.05	1.12	1.02	0.77	0.59	0.86	0.99	1.05	0.69	0.95	0.91	0.96
ES0008R	nickel	aerosol	-	-	-	-	-	-	1.05	-	-	-	-	1.54	-
ES0009R	nickel	aerosol	-	-	-	-	-	-	1.69	-	-	-	-	-	-
FI0036R	nickel	aerosol	0.50	0.82	0.60	0.62	0.28	0.16	0.45	0.25	0.19	0.24	0.09	0.17	0.36
GB0013R	nickel	pm10	1.13	1.43	1.06	1.40	1.59	2.08	1.24	2.79	0.57	1.61	0.98	2.16	1.51
GB0017R	nickel	pm10	-	-	-	5.53	2.39	-	-	3.52	1.87	1.63	2.00	-	-
GB0091R	nickel	pm10	0.48	0.68	0.49	0.94	0.54	0.43	0.97	1.65	-	-	-	1.08	0.72
IS0091R	nickel	aerosol	3.17	8.53	12.27	5.07	7.77	5.57	6.35	13.54	8.64	7.39	2.86	1.60	6.89
LV0010R	nickel	aerosol	1.01	0.89	1.56	0.58	0.74	0.83	1.30	0.74	0.87	0.35	0.30	0.51	0.81
LV0016R	nickel	aerosol	0.88	1.12	0.75	0.50	0.67	0.68	1.42	0.93	0.61	0.63	0.37	0.40	0.75
NL0009R	nickel	aerosol	1.31	1.51	2.15	2.07	2.31	2.35	1.03	1.55	1.61	1.11	1.30	1.80	1.68
NO0001R	nickel	pm10	0.74	0.37	0.94	1.09	0.40	0.47	0.47	0.64	0.51	0.54	0.39	0.49	0.59
NO0042G	nickel	aerosol	0.08	0.11	0.20	0.12	0.06	0.02	0.09	0.08	0.15	0.05	0.08	0.16	0.10
SE0014R	nickel	aerosol	1.27	2.29	2.71	2.06	2.38	1.93	1.81	2.04	1.48	1.14	1.18	1.41	1.80

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SI0008R	nickel	pm10	-	-	-	-	-	-	-	-	-	-	1.63	0.55	-
SK0002R	nickel	aerosol	1.43	1.17	1.91	0.42	0.32	0.15	0.12	0.62	0.15	0.24	0.67	0.35	0.60
SK0004R	nickel	aerosol	0.56	0.40	0.67	0.89	0.47	1.10	0.48	0.98	1.37	1.38	0.36	-	0.80
SK0005R	nickel	aerosol	0.68	0.61	0.35	1.09	0.47	0.29	0.62	0.79	0.52	0.89	0.51	1.86	0.72
SK0006R	nickel	aerosol	0.84	0.71	0.84	0.56	0.45	0.55	0.48	0.83	0.45	0.86	1.49	0.49	0.71
SK0007R	nickel	aerosol	1.23	1.30	1.38	0.96	0.80	0.55	0.46	1.02	0.97	1.95	1.76	1.13	1.12
DK0011G	selenium	aerosol	0.02	0.04	0.00	0.04	0.08	0.10	0.06	0.09	0.03	0.02	0.01	0.03	0.04
DE0001R	vanadium	aerosol	2.76	3.80	3.55	3.79	3.42	4.66	2.71	3.75	2.59	2.48	2.83	2.57	3.25
DE0002R	vanadium	aerosol	0.98	1.87	1.21	1.31	1.41	1.13	1.10	0.88	0.88	0.91	0.93	1.19	1.15
DE0003R	vanadium	aerosol	0.17	0.63	0.89	0.28	0.48	0.25	1.02	0.68	0.71	0.55	0.46	0.47	0.56
DE0007R	vanadium	aerosol	1.56	1.91	1.72	1.62	1.74	1.32	1.36	1.20	1.56	1.58	1.43	2.01	1.58
DE0008R	vanadium	aerosol	0.52	1.09	1.04	0.75	0.91	0.97	0.71	0.60	0.58	0.53	0.37	0.40	0.71
DE0009R	vanadium	aerosol	2.91	4.74	4.76	6.34	6.02	4.79	6.00	4.07	3.03	2.61	2.87	4.42	4.40
FI0036R	vanadium	aerosol	0.80	0.99	0.73	0.78	0.41	0.22	0.37	0.20	0.16	0.21	0.08	0.16	0.43
IS0091R	vanadium	aerosol	4.64	3.78	2.20	2.90	4.77	2.63	0.81	1.58	3.38	3.62	1.01	0.99	2.65
NO0001R	vanadium	pm10	0.86	0.36	0.71	1.45	0.70	0.76	0.79	0.93	0.81	0.41	0.39	0.54	0.72
NO0042G	vanadium	aerosol	0.10	0.12	0.10	0.14	0.07	0.03	0.04	0.06	0.04	0.06	0.03	0.12	0.08
DE0001R	zinc	aerosol	-	-	-	-	-	6.60	4.98	10.78	9.35	9.52	13.27	11.45	-
DE0002R	zinc	aerosol	20.01	12.07	15.29	12.30	4.32	4.32	5.36	9.16	6.13	13.23	11.52	16.30	10.66
DE0003R	zinc	aerosol	-	-	-	-	-	11.62	8.92	5.62	10.44	3.53	4.88	7.01	-
DE0007R	zinc	aerosol	35.55	16.25	20.61	16.57	5.43	4.94	4.66	8.63	15.18	24.26	22.77	33.20	17.21
DE0008R	zinc	aerosol	-	-	-	-	-	13.07	7.99	8.48	10.75	12.97	10.09	9.96	-
DE0009R	zinc	aerosol	-	-	-	-	-	2.28	5.60	16.17	11.46	22.12	17.78	20.65	-
DK0003R	zinc	aerosol	23.77	12.50	16.77	40.65	9.47	6.98	6.95	14.68	19.81	13.59	13.74	20.67	16.64
DK0008R	zinc	aerosol	15.17	7.48	9.91	15.60	8.02	5.29	5.80	9.50	8.15	10.90	8.10	9.39	9.45
DK0011G	zinc	aerosol	0.95	1.53	0.70	1.88	2.41	2.40	1.03	0.84	0.21	0.69	0.21	0.23	1.11
DK0031R	zinc	aerosol	13.62	4.79	9.94	8.46	6.39	2.77	5.90	7.06	8.96	12.89	11.13	7.09	8.08
ES0008R	zinc	aerosol	-	-	-	-	-	-	47.02	-	-	-	-	13.36	-
ES0009R	zinc	aerosol	-	-	-	-	-	-	64.94	-	-	-	-	-	-
FI0036R	zinc	aerosol	4.43	3.34	5.04	8.03	5.19	1.69	2.28	1.08	1.13	1.18	0.89	1.43	2.98
GB0013R	zinc	pm10	15.74	24.15	16.58	13.18	33.06	6.89	7.63	6.67	10.27	12.74	10.07	13.85	14.24
GB0017R	zinc	pm10	-	-	-	42.55	14.99	-	-	25.85	23.67	18.15	41.39	-	-
GB0091R	zinc	pm10	15.59	16.79	25.51	9.22	24.39	9.22	4.80	15.58	-	-	-	5.90	14.31
IS0091R	zinc	aerosol	7.28	3.97	2.33	38.05	28.03	18.95	6.54	22.74	62.53	54.27	10.86	6.00	20.65
LT0015R	zinc	aerosol	18.42	21.62	19.42	22.47	17.81	9.30	8.52	11.84	10.27	14.87	11.70	15.50	15.12
LV0010R	zinc	aerosol	27.45	27.66	18.37	37.39	20.67	13.81	11.30	40.76	24.11	10.92	12.41	11.39	21.19
LV0016R	zinc	aerosol	14.60	13.39	9.76	13.52	8.01	6.23	6.60	8.84	11.54	13.14	8.52	17.59	10.98
NL0009R	zinc	aerosol	21.30	16.64	22.67	17.71	14.02	12.97	12.08	17.33	17.81	20.20	19.20	29.94	18.52

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NO0001R	zinc	pm10	7.00	2.60	4.71	6.93	4.06	2.06	2.07	3.67	2.67	5.48	2.23	3.29	3.87
NO0042G	zinc	aerosol	2.11	2.06	25.10	1.76	0.79	0.34	0.39	0.45	1.69	0.48	1.93	10.11	4.12
SK0002R	zinc	aerosol	1.69	1.68	8.00	6.68	14.24	4.29	3.64	6.87	7.71	2.42	2.64	1.07	5.07
SK0004R	zinc	aerosol	15.88	12.21	19.42	30.55	14.53	10.22	10.89	15.91	14.37	15.28	22.28	-	16.46
SK0005R	zinc	aerosol	43.11	36.64	34.50	36.86	29.83	22.25	21.14	24.21	29.02	25.31	24.56	44.58	31.00
SK0006R	zinc	aerosol	24.77	21.59	25.31	15.56	16.03	14.53	15.46	12.71	14.37	13.55	21.90	20.39	17.71
SK0007R	zinc	aerosol	29.76	19.05	29.03	22.80	14.84	6.54	4.48	8.11	8.02	19.98	26.29	22.23	17.29

Annex 7

Monthly mean values for POPs in precipitation

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
BE0004R	alpha_HCH	precip	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-	0.5
DE0001R	alpha_HCH	precip	0.349	0.299	0.192	0.252	0.354	0.452	0.125	0.263	0.343	0.45	0.459	0.44	0.353
DE0009R	alpha_HCH	precip	0.42	0.392	0.276	0.424	0.61	0.352	0.324	0.36	0.35	0.46	0.424	0.42	0.393
FI0096R	alpha_HCH	precip+dry_dep	0.09	0.04	0.05	0.02	0.35	2	0.835	0.01	0.03	0.02	0.03	0.02	0.236
IS0091R	alpha_HCH	precip	0.116	0.122	0.078	0.106	0.122	0.125	0.105	0.104	0.067	0.07	0.084	0.101	0.094
NO0001R	alpha_HCH	precip	-	0.312	0.29	0.463	0.831	0.276	0.369	0.324	0.284	0.488	0.382	0.26	0.383
SE0012R	alpha_HCH	precip+dry_dep	-	0.02	0.41	-	0.02	-	0.33	2.9	0.58	0.02	0.1	0.235	0.465
SE0014R	alpha_HCH	precip+dry_dep	-	-	0.231	0.288	0.53	0.28	0.419	0.265	0.461	0.34	0.424	0.17	0.341
IS0091R	beta_HCH	precip	0.008	0.015	0.005	0.007	0.011	0.009	0.006	0.007	0.003	0.006	0.004	0.004	0.006
BE0004R	gamma_HCH	precip	1	1	1.395	14.592	9	6.636	6	1.851	1	5.486	6	-	3.901
CZ0003R	gamma_HCH	precip	3.599	3.935	1.664	6.658	6.274	4.535	4.806	2.834	0.26	0.487	1.824	0.05	3.316
DE0001R	gamma_HCH	precip	1.406	1.292	5.46	4.296	4.656	5.206	1.641	1.364	0.955	1.444	0.836	1.03	1.701
DE0009R	gamma_HCH	precip	1.7	2.778	3.475	3.434	3.08	1.81	1.631	2.03	1.573	2.13	2.014	1.38	2.14
FI0096R	gamma_HCH	precip+dry_dep	0.15	0.07	0.08	0.05	0.27	1.5	0.724	-	0.12	0.02	0.01	0.02	0.234
IS0091R	gamma_HCH	precip	0.033	0.035	0.106	0.077	0.072	0.047	0.05	0.087	0.032	0.05	0.037	0.046	0.055
NL0091R	gamma_HCH	precip	5	5	5	5	5	10.592	5	5	5	5	5	5	5.359
NO0001R	gamma_HCH	precip	-	0.599	0.729	2.996	1.823	0.836	0.781	0.538	0.568	0.851	0.495	0.336	0.877
SE0012R	gamma_HCH	precip+dry_dep	-	0.02	2.2	-	0.1	1	1.1	4.1	1	0.2	0.1	0.345	0.821
SE0014R	gamma_HCH	precip+dry_dep	-	-	0.737	0.917	1.5	0.591	0.917	0.754	0.957	1	0.749	0.23	0.836
DE0001R	anthracene	precip	0.433	0.573	1.856	2.486	3.456	1.935	1.209	0.416	1.061	0.413	0.565	1.45	0.892
DE0009R	anthracene	precip	2.96	2.069	1.274	0.981	2.35	0.562	0.529	1.1	1.533	1.88	1.129	2.53	1.523
FI0096R	anthracene	precip+dry_dep	4	0	0	1	0	1	0.364	0	1	0	0	2	0.75
SE0012R	anthracene	precip+dry_dep	-	7	2	1	0	0	2	1	0	1	0	0.613	1.072
SE0014R	anthracene	precip+dry_dep	-	0	1	1	1	0	0	0.065	1	1	1	1	0.646
CZ0003R	benz_a_anthracene	precip	3.626	5.957	16.758	1.613	2.919	0.874	0.47	0.468	0.759	0.874	12.068	9.639	4.218
DE0001R	benz_a_anthracene	precip	2.566	0.207	1.892	0.93	5.28	1.211	0.468	0.814	0.937	1.499	1.161	3.65	1.474
DE0009R	benz_a_anthracene	precip	5.95	3.249	2.304	2.129	6.59	0.626	0.921	1.41	1.056	3.56	3.171	4.98	2.77
FI0096R	benz_a_anthracene	precip+dry_dep	26	1	0	3	0	1	1.636	2	5	3	1	17	5.083
SE0014R	benz_a_anthracene	precip+dry_dep	-	1	3	3.333	5	1.2	2.613	1.065	2	-	7.929	7	3.421
CZ0003R	benzo_a_pyrene	precip	2.783	5.071	16.46	2.298	2.556	0.999	0.485	7.788	0.594	1.341	9.76	7.892	4.624
DE0001R	benzo_a_pyrene	precip	1.993	0.246	0.807	1.181	5.492	0.853	0.608	1.038	1.002	1.739	1.363	3.57	1.453
DE0009R	benzo_a_pyrene	precip	3.6	2.287	1.244	1.312	6.9	0.33	1.2	1.2	1.133	3.6	3.827	4.7	2.423
FI0096R	benzo_a_pyrene	precip+dry_dep	37	1	1	8	1	3	1.091	3	12	4	0	19	7.417
SE0012R	benzo_a_pyrene	precip+dry_dep	-	4	1	5	4	2	2	1	1	14	1	4.065	3.375
SE0014R	benzo_a_pyrene	precip+dry_dep	-	2	5	5.5	8	2.3	4.419	2.065	3.4	6	8.667	7	4.966

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
FI0096R	benzo_b_flouranthene	precip+dry_dep	54	4	3	8	1	7	3.182	8	19	7	1	45	13.167
SE0014R	benzo_b_flouranthene	precip+dry_dep	-	3	7.903	7.167	8	2.3	4.613	3.065	4.667	9	16.4	16	7.497
CZ0003R	benzo_b_fluoranthene	precip	5.174	11.033	35.44	5.222	4.153	2.666	1.353	2.528	1.357	2.1	13.933	17.578	7.673
DE0001R	benzo_b_fluoranthene	precip	13.144	3.659	9.317	2.694	22.335	4.895	4.61	3.781	3.426	7.777	7.25	19.5	7.631
DE0009R	benzo_b_fluoranthene	precip	28.2	16.103	12.329	8.391	31.3	2.096	4.022	5.2	3.282	19	15.837	26.2	13.317
DE0001R	benzo_ghi_perylene	precip	4.495	0.994	3.355	1.378	7.138	0.923	0.681	0.962	1.052	2.169	2.238	5.32	2.244
DE0009R	benzo_ghi_perylene	precip	8.87	4.613	3.07	1.7	9.02	0.413	0.887	1.05	0.735	4.6	4.472	6.31	3.483
FI0096R	benzo_ghi_perylene	precip+dry_dep	48	2	2	9	1	3	1.727	5	16	7	1	32	10.583
SE0012R	benzo_ghi_perylene	precip+dry_dep	-	6	2	5	2	2	4	2	1	13	1	1.613	1.876
SE0014R	benzo_ghi_perylene	precip+dry_dep	-	3	7.194	9	9	3.2	4.613	3	3.533	7	10.733	11	6.506
CZ0003R	benzo_k_fluoranthene	precip	3.722	4.766	16.758	3.045	2.627	1.993	0.31	1.021	0.933	1.46	10.357	10.998	4.327
FI0096R	benzo_k_fluoranthene	precip+dry_dep	25	1	1	4	0	3	1.091	3	8	3	0	16	5.333
SE0014R	benzo_k_fluoranthene	precip+dry_dep	-	1	3	3.167	4	1.2	2.613	1.065	2.267	4	6.8	7	3.3
CZ0003R	chrysene	precip	13.361	13.247	35.035	8.918	5.936	3.799	1.088	0.586	2.335	6.177	25.529	31.094	10.529
DE0001R	chrysene	precip	8.469	3.614	4.894	1.083	12.422	2.986	2.45	2.885	2.578	5.27	4.347	13	5.082
DE0009R	chrysene	precip	22.7	13.979	11.832	7.942	20.7	1.62	2.831	4.1	2.186	13.7	10.404	18.4	10.115
IS0091R	cis_CD	precip	0.005	0.004	0.005	0.002	0.003	0.004	0.005	0.006	0.005	0.005	0.005	0.008	0.005
CZ0003R	dibenzo_ah_anthracene	precip	0.257	0.299	1.112	0.38	0.255	0.178	0.112	0.1	0.265	0.631	1.236	0.91	0.417
DE0001R	dibenzo_ah_anthracene	precip	0.763	0.254	0.808	1.078	1.361	0.404	0.54	0.169	0.151	0.181	0.265	1.09	0.484
DE0009R	dibenzo_ah_anthracene	precip	1.51	0.807	0.539	0.436	1.2	0.243	0.213	0.24	0.945	0.89	0.507	1.31	0.704
BE0004R	dieldrin	precip	1	1	1	1	1	1	1	1	1	1	1	-	1
DE0001R	dieldrin	precip	0.185	0.17	0.134	0.193	0.253	0.195	0.07	0.072	0.119	0.142	0.084	0.098	0.13
DE0009R	dieldrin	precip	0.079	0.056	0.092	0.087	0.061	0.033	0.064	0.033	0.063	0.114	0.077	0.123	0.073
IS0091R	dieldrin	precip	0.039	0.022	0.031	0.03	0.029	0.021	0.016	0.016	0.027	0.029	0.031	0.044	0.029
BE0004R	endrin	precip	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	-	1.5
DE0001R	endrin	precip	0.063	0.05	0.248	0.356	0.435	0.117	0.12	0.039	0.035	0.044	0.05	0.045	0.072
DE0009R	endrin	precip	0.072	0.051	0.108	0.065	0.112	0.057	0.046	0.068	0.087	0.061	0.118	0.056	0.07
DE0001R	fluoranthene	precip	16.66	7.735	11.047	5.51	22.319	11.248	4.99	5.819	6.401	9.887	9.675	19.3	10.207
DE0009R	fluoranthene	precip	40.5	23.526	25.507	18.834	34.2	4.814	7.234	9.5	5.574	21.2	17.802	22.4	17.67
FI0096R	fluoranthene	precip+dry_dep	110	8	6	20	3	12	5.636	11	39	28	3	65	25.583
SE0012R	fluoranthene	precip+dry_dep	-	71	36	20	6	10	136	26	7	44	23	8.903	19.38
SE0014R	fluoranthene	precip+dry_dep	-	13	23.516	19.5	22	6.6	11.226	8.129	12.267	27	37.933	35	19.707

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
DE0001R	HCB	precip	0.439	0.026	1.61	0.061	0.257	1.312	0.127	0.014	0.127	0.022	0.111	0.13	0.239
DE0009R	HCB	precip	0.08	0.08	0.04	0.033	0.07	0.031	0.032	0.05	0.011	0.02	0.012	0.03	0.035
IS0091R	HCB	precip	0.034	0.079	0.017	0.029	0.031	0.023	0.007	0.008	0.006	0.013	0.007	0.008	0.017
NO0001R	HCB	precip	-	0.075	0.083	0.077	0.193	0.06	0.423	0.118	0.064	0.057	0.294	0.063	0.115
BE0004R	heptachlor	precip	1	1	1	1	1	1	1	1	1	1	1	-	1
DE0001R	heptachlor	precip	0.024	0.019	0.094	0.135	0.166	0.044	0.046	0.015	0.013	0.017	0.019	0.021	0.028
DE0009R	heptachlor	precip	0.027	0.019	0.041	0.025	0.043	0.022	0.02	0.054	0.067	0.023	0.045	0.021	0.032
DE0001R	inden_123cd_pyrene	precip	3.501	0.573	1.856	2.486	3.334	0.939	1.26	0.902	0.989	2.011	2.115	4.73	1.922
DE0009R	inden_123cd_pyrene	precip	6.92	3.422	1.437	1.424	8.8	0.674	1.029	0.54	1.067	4.53	4.723	6.25	3.137
FI0096R	inden_123cd_pyrene	precip+dry_dep	41	1	2	7	1	4	1.455	4	13	4	0	31	9
SE0012R	inden_123cd_pyrene	precip+dry_dep	-	7	3	4	3	2	4	2	1	24	1	4.065	2.786
SE0014R	inden_123cd_pyrene	precip+dry_dep	-	2	5	5.167	6	2.2	3.613	2	2.667	7	12.533	12	5.495
DE0001R	op_DDD	precip	0.01	0.011	0.051	0.062	0.084	0.056	0.026	0.008	0.01	0.011	0.059	0.069	0.031
DE0009R	op_DDD	precip	0.045	0.056	0.027	0.017	0.071	0.033	0.023	0.052	0.017	0.056	0.107	0.013	0.041
DE0001R	op_DDE	precip	0.012	0.012	0.061	0.076	0.093	0.032	0.03	0.009	0.008	0.015	0.14	0.163	0.048
DE0009R	op_DDE	precip	0.015	0.011	0.024	0.016	0.023	0.014	0.011	0.021	0.023	0.012	0.024	0.015	0.016
DE0001R	op_DDT	precip	0.03	0.036	0.258	0.314	0.408	0.223	0.166	0.052	0.147	0.146	0.11	0.128	0.131
DE0009R	op_DDT	precip	0.127	0.146	0.08	0.044	0.072	0.084	0.069	0.309	0.28	0.075	0.153	0.188	0.137
IS0091R	op_DDT	precip	0.013	0.01	0.008	0.014	0.006	0.008	0.007	0.008	0.003	0.007	0.004	0.006	0.007
CZ0003R	PCB_101	precip	0.127	0.05	0.05	0.05	0.05	0.07	0.062	0.05	0.055	0.05	0.05	0.05	0.064
DE0001R	PCB_101	precip	0.147	0.031	0.121	0.162	0.26	0.15	0.143	0.079	0.059	0.044	0.181	0.21	0.107
DE0009R	PCB_101	precip	0.25	0.494	0.409	0.609	0.05	0.031	0.057	0.03	0.039	0.03	0.056	0.05	0.16
FI0096R	PCB_101	precip+dry_dep	0.14	0.09	0.11	0.07	0.04	-	-	0.07	0.04	-	-	-	0.08
IS0091R	PCB_101	precip	0.008	0.007	0.004	0.004	0.005	0.013	0.002	0.002	0.002	0.005	0.001	0.002	0.004
NO0001R	PCB_101	precip	-	0.033	0.035	0.043	0.021	0.014	0.04	0.033	0.083	0.038	0.091	0.012	0.039
SE0012R	PCB_101	precip+dry_dep	-	0.07	0.05	0.05	0.02	0.03	0.09	0.01	0.06	0.01	0.02	0.02	0.019
SE0014R	PCB_101	precip+dry_dep	-	0.05	0.107	0.095	0.17	0.114	0.068	0.099	0.087	0.07	0.113	0.06	0.094
IS0091R	PCB_105	precip	0.004	0.007	0.002	0.004	0.005	0.005	0.002	0.002	0.001	0.002	0.001	0.002	0.003
CZ0003R	PCB_118	precip	0.055	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.051
DE0001R	PCB_118	precip	0.069	0.042	0.202	0.269	0.248	0.519	0.065	0.02	0.03	0.024	0.191	0.23	0.11
DE0009R	PCB_118	precip	0.09	0.353	0.159	0.228	0.07	0.014	0.076	0.04	0.084	0.02	0.021	0.03	0.097
FI0096R	PCB_118	precip+dry_dep	0.09	0.11	0.09	0.06	0.04	-	-	0.06	0.05	-	-	-	0.071
IS0091R	PCB_118	precip	0.007	0.007	0.002	0.004	0.005	0.008	0.003	0.004	0.002	0.007	0.002	0.003	0.004
NO0001R	PCB_118	precip	-	0.032	0.034	0.035	0.017	0.007	0.026	0.023	0.046	0.019	0.049	0.011	0.025

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SE0012R	PCB_118	precip+dry_dep	-	0.04	0.03	0.05	0.02	0.03	0.05	0.01	0.04	0.01	0.01	0.01	0.01
SE0014R	PCB_118	precip+dry_dep	-	0.03	0.079	0.098	0.24	0.103	0.046	0.07	0.071	0.08	0.087	0.05	0.087
CZ0003R	PCB_138	precip	0.151	0.091	0.05	0.05	0.05	0.061	0.106	0.05	0.05	0.05	0.05	0.05	0.073
DE0001R	PCB_138	precip	0.167	0.051	0.152	0.213	0.644	2.704	1.07	0.08	0.069	0.044	0.201	0.24	0.317
DE0009R	PCB_138	precip	0.39	0.812	0.753	0.556	1.04	0.141	0.085	0.04	0.069	0.16	0.045	0.06	0.296
FI0096R	PCB_138	precip+dry_dep	0.08	0.07	0.08	0.09	0.06	-	-	0.06	0.08	-	-	-	0.074
IS0091R	PCB_138	precip	0.006	0.007	0.002	0.004	0.005	0.024	0.004	0.004	0.006	0.007	0.002	0.005	0.006
NO0001R	PCB_138	precip	-	0.035	0.041	0.054	0.028	0.01	0.033	0.029	0.05	0.018	0.033	0.014	0.028
SE0012R	PCB_138	precip+dry_dep	-	0.06	0.05	0.06	0.04	0.04	0.11	0.02	0.08	0.02	0.01	0.01	0.022
SE0014R	PCB_138	precip+dry_dep	-	0.09	0.269	0.345	0.77	0.399	0.241	0.364	0.284	0.31	0.475	0.31	0.353
CZ0003R	PCB_153	precip	0.107	0.145	0.05	0.05	0.05	0.068	0.12	0.05	0.056	0.05	0.086	0.05	0.078
DE0001R	PCB_153	precip	0.098	0.041	0.162	0.219	0.31	1.248	0.3	0.03	0.02	0.025	0.221	0.26	0.17
DE0009R	PCB_153	precip	0.24	0.662	0.385	0.466	0.27	0.034	0.058	0.04	0.06	0.06	0.042	0.03	0.18
FI0096R	PCB_153	precip+dry_dep	0.15	0.16	0.15	0.17	0.13	-	-	0.08	0.12	-	-	-	0.137
IS0091R	PCB_153	precip	0.013	0.007	0.005	0.008	0.009	0.035	0.007	0.005	0.009	0.011	0.005	0.009	0.009
NO0001R	PCB_153	precip	-	0.061	0.063	0.073	0.038	0.015	0.059	0.051	0.098	0.034	0.067	0.019	0.048
SE0012R	PCB_153	precip+dry_dep	-	0.07	0.04	0.06	0.04	0.03	0.1	0.02	0.07	0.01	0.01	0.01	0.021
SE0014R	PCB_153	precip+dry_dep	-	0.12	0.238	0.295	0.67	0.399	0.235	0.339	0.323	0.28	0.51	0.22	0.331
IS0091R	PCB_156	precip	0.004	0.007	0.002	0.004	0.005	0.005	0.003	0.004	0.002	0.004	0.002	0.003	0.003
CZ0003R	PCB_180	precip	0.208	0.125	0.05	0.05	0.05	0.079	0.133	0.05	0.068	0.05	0.05	0.05	0.089
DE0001R	PCB_180	precip	0.049	0.031	0.091	0.132	0.29	0.804	0.506	0.021	0.039	0.024	0.161	0.19	0.132
DE0009R	PCB_180	precip	0.16	0.357	0.285	0.119	0.65	0.057	0.012	0.03	0.05	0.16	0.043	0.02	0.137
FI0096R	PCB_180	precip+dry_dep	0.02	0.005	0.06	0.07	0.02	-	-	0.05	0.08	-	-	-	0.044
IS0091R	PCB_180	precip	0.004	0.007	0.002	0.004	0.005	0.018	0.006	0.005	0.004	0.007	0.002	0.005	0.005
NO0001R	PCB_180	precip	-	0.02	0.025	0.042	0.021	0.006	0.012	0.011	0.012	0.01	0.011	0.01	0.014
SE0012R	PCB_180	precip+dry_dep	-	0.05	0.1	0.03	0.03	0.02	0.07	0.01	0.05	0.01	0.01	0.01	0.023
SE0014R	PCB_180	precip+dry_dep	-	0.05	0.177	0.265	0.39	0.303	0.171	0.255	0.185	0.22	0.275	0.13	0.221
CZ0003R	PCB_28	precip	0.1	0.073	0.05	0.05	0.05	0.115	0.102	0.05	0.055	0.05	0.05	0.05	0.074
DE0001R	PCB_28	precip	0.303	0.051	0.182	0.238	0.15	0.16	0.149	0.051	0.088	0.024	0.181	0.21	0.13
DE0009R	PCB_28	precip	0.15	0.15	0.069	0.049	0.04	0.053	0.133	0.07	0.03	0.03	0.055	0.02	0.065
FI0096R	PCB_28	precip+dry_dep	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
IS0091R	PCB_28	precip	0.091	0.171	0.056	0.087	0.126	0.104	0.013	0.027	0.005	0.011	0.007	0.009	0.045
NO0001R	PCB_28	precip	-	0.015	0.016	0.022	0.015	0.008	0.02	0.012	0.021	0.013	0.045	0.011	0.016
SE0012R	PCB_28	precip+dry_dep	-	0.12	0.1	0.04	0.02	0.02	0.15	0.005	0.08	0.02	0.04	0.04	0.041
SE0014R	PCB_28	precip+dry_dep	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
IS0091R	PCB_31	precip	0.087	0.163	0.054	0.083	0.12	0.1	0.01	0.019	0.004	0.008	0.004	0.006	0.042
CZ0003R	PCB_52	precip	0.05	0.05	0.05	0.116	0.05	0.054	0.05	0.05	0.05	0.05	0.05	0.05	0.054
DE0001R	PCB_52	precip	0.146	0.011	0.111	0.139	0.11	0.08	0.074	0.021	0.039	0.022	0.111	0.13	0.069
DE0009R	PCB_52	precip	0.09	0.465	0.131	0.132	0.03	0.013	0.068	0.05	0.019	0.01	0.028	0.03	0.094
FI0096R	PCB_52	precip+dry_dep	0.11	0.005	0.11	0.06	0.03	-	-	0.07	0.005	-	-	-	0.056
IS0091R	PCB_52	precip	0.026	0.048	0.016	0.024	0.036	0.029	0.003	0.004	0.001	0.005	0.003	0.002	0.013
NO0001R	PCB_52	precip	-	0.021	0.024	0.03	0.015	0.013	0.032	0.019	0.047	0.028	0.073	0.01	0.027
SE0012R	PCB_52	precip+dry_dep	-	0.08	0.07	0.03	0.005	0.03	0.09	0.005	0.05	0.01	0.03	0.03	0.026
SE0014R	PCB_52	precip+dry_dep	-	0.08	0.164	0.112	0.12	0.17	0.084	0.094	0.028	0.18	0.409	0.23	0.152
CZ0003R	phenanthrene	precip	37.283	34.22	69.125	22.321	12.943	7.907	4.853	5.126	6.077	12.903	33.378	62.207	22.168
DE0001R	phenanthrene	precip	51.016	11.195	68.459	8.886	32.349	140.923	11.232	4.555	11.085	7.133	8.614	16.1	24.416
DE0009R	phenanthrene	precip	52.4	82.034	37.251	20.794	18	4.967	7.012	8.1	6.253	15.3	14.716	18.6	23.432
FI0096R	phenanthrene	precip+dry_dep	78	9	6	13	6	11	5.909	18	25	24	8	26	18.917
SE0012R	phenanthrene	precip+dry_dep	-	42	41	21	8	7	430	48	6	51	38	47.806	65.287
SE0014R	phenanthrene	precip+dry_dep	-	15	20.226	13.333	15	5.3	8.387	10.194	14.067	21	29.867	24	16.042
BE0004R	pp_DDD	precip	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-	0.5
CZ0003R	pp_DDD	precip	0.465	1.058	0.073	0.648	0.672	0.22	0.44	0.05	0.068	0.05	0.216	0.15	0.317
DE0001R	pp_DDD	precip	0.033	0.01	0.05	0.056	0.12	0.243	0.12	0.018	0.044	0.01	0.02	0.023	0.058
DE0009R	pp_DDD	precip	0.142	0.161	0.13	0.049	0.293	0.065	0.105	0.187	0.062	0.068	0.058	0.03	0.105
IS0091R	pp_DDD	precip	0.007	0.015	0.008	0.011	0.006	0.007	0.007	0.008	0.002	0.004	0.005	0.003	0.006
BE0004R	pp_DDE	precip	1	1	1	1	1	1	1	1	1	1	1	-	1
CZ0003R	pp_DDE	precip	0.424	0.777	0.106	0.184	0.263	0.125	0.266	0.521	0.073	0.05	0.239	0.453	0.276
DE0001R	pp_DDE	precip	0.12	0.018	0.084	0.112	0.249	0.656	0.111	0.014	0.034	0.02	0.16	0.186	0.146
DE0009R	pp_DDE	precip	0.222	0.344	0.221	0.102	0.304	0.056	0.058	0.15	0.064	0.083	0.043	0.076	0.134
IS0091R	pp_DDE	precip	0.004	0.007	0.002	0.004	0.005	0.005	0.006	0.007	0.004	0.004	0.002	0.005	0.004
CZ0003R	pp_DDT	precip	0.412	1.665	0.086	0.204	0.713	0.25	0.553	0.072	0.08	0.05	0.068	0.05	0.332
DE0001R	pp_DDT	precip	0.075	0.046	0.339	0.414	0.595	0.588	0.219	0.072	0.172	0.192	0.145	0.168	0.208
DE0009R	pp_DDT	precip	0.479	0.469	0.459	0.243	1.008	0.07	0.295	0.434	0.56	0.099	0.201	0.247	0.341
IS0091R	pp_DDT	precip	0.012	0.011	0.01	0.008	0.005	0.005	0.011	0.013	0.005	0.011	0.007	0.009	0.009
CZ0003R	pyrene	precip	21.569	25.396	55.205	10.526	8.999	5.252	2.434	12.987	3.913	5.832	33.801	39.716	17.1
DE0001R	pyrene	precip	10.465	1.752	6.794	3.025	16.592	9.751	3.55	4.015	4.47	6.847	5.033	13.2	6.508
DE0009R	pyrene	precip	16.5	14.437	15.366	15.052	26.6	3.689	5.25	6.7	4.294	15.9	13.061	16.5	11.772
FI0096R	pyrene	precip+dry_dep	88	5	3	16	2	6	2.818	6	27	17	3	48	18.5
SE0012R	pyrene	precip+dry_dep	-	14	6	11	4	6	21	1	3	29	7	11.29	11.344
SE0014R	pyrene	precip+dry_dep	-	7	13.903	13.5	16	4.5	8.226	5.065	7.733	19	27.067	23	13.229

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
IS0091R	trans_CD	precip	0.004	0.004	0.004	0.004	0.003	0.002	0.002	0.002	0.001	0.002	0.002	0.003	0.003
IS0091R	trans_NO	precip	0.005	0.004	0.003	0.005	0.003	0.007	0.002	0.005	0.002	0.003	0.003	0.006	0.004
BE0004R	mm	precip	148.992	53.115	38.875	32.988	34.808	68.863	74.217	126.291	71.755	65.406	82.174	-	797.483
CZ0003R	mm	precip	76.4	44.2	55.7	34.5	34.3	99.5	73.4	64	54.3	26	61.9	11	635.125
DE0001R	mm	precip	71.055	52.471	16.181	12.058	9.012	31.968	24.832	77.179	85.23	73.46	55.082	45.871	554.4
DE0001R	mm	precip	91.834	32.575	25.047	22.282	12.578	71.738	52.342	83.857	88.256	80.334	61.789	75.968	698.6
DE0009R	mm	precip	38.203	59.411	31.107	35.413	25.154	59.072	67.348	48.891	44.429	59.343	37.422	55.807	561.6
IS0091R	mm	precip	54.945	26.751	81.925	51.505	37.602	42.462	55.973	46.382	98.142	59.492	87.333	68.077	710.97
NL0091R	mm	precip	147.879	78.786	57.936	34.757	29.639	59.55	98.025	104.036	80.293	94.243	66.364	75.218	926.775
NO0001R	mm	precip	-	14.259	115.641	88.967	65.576	149.357	101.929	200.443	142.237	332.52	69.7	125.729	1399.154

Annex 8

Monthly mean values on data for POPs in air

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CZ0003R	alpha_HCH	air+aerosol	8.438	7.375	9.85	9.75	8.25	12.05	11.938	18.375	13.65	18.5	13.438	7.95	11.572
FI0096R	alpha_HCH	air+aerosol	5	4	6	8	9	15	15	13	15	10	7	6	9.417
IS0091R	alpha_HCH	air+aerosol	5.627	6.285	5.763	5.21	6.292	7.055	3.909	5.628	4.04	3.883	3.385	2.721	4.982
NO0001R	alpha_HCH	air+aerosol	8.176	7.126	9.401	15.46	-	22.088	22.51	38.983	16.779	-	15.39	11.669	16.523
NO0042G	alpha_HCH	air+aerosol	12.217	11.378	10.238	10.618	12.017	14.872	21.092	25.366	25.235	24.247	20.874	16.689	17.121
SE0012R	alpha_HCH	air+aerosol	4	5	3	15	9	16	14	13	11	-	7	6	9.364
SE0014R	alpha_HCH	air+aerosol	4.3	5.241	5.13	6.867	12.903	9.033	9.065	10.258	9.789	10	7.467	6.387	8.17
IS0091R	beta_HCH	air+aerosol	0.181	0.182	0.16	0.165	0.17	0.16	0.745	0.705	0.43	0.343	0.42	0.265	0.328
NO0042G	beta_HCH	air+aerosol	0.125	0.179	0.097	0.114	0.048	0.03	0.074	0.035	0.034	0.072	0.799	0.078	0.147
CZ0003R	gamma_HCH	air+aerosol	11.312	12.75	11.25	24.062	27.125	23.4	22.188	31.5	17.05	33.812	46.75	20.4	23.048
FI0096R	gamma_HCH	air+aerosol	2	1	2	3	3	5	5.636	4	5	2	2	2	3.083
IS0091R	gamma_HCH	air+aerosol	5.938	8.037	8.141	8.785	7.988	8.17	5.948	7.552	5.565	7.217	8.915	8.729	7.574
NO0001R	gamma_HCH	air+aerosol	4.912	3.821	5.401	16.836	-	17.686	11.219	21.163	6.041	-	9.512	5.491	10.14
NO0042G	gamma_HCH	air+aerosol	2.289	2.455	2.734	3.195	2.978	2.048	3.536	2.282	2.42	3.064	3.769	2.193	2.752
SE0012R	gamma_HCH	air+aerosol	3	4	3	10	4	16	11	13	6	-	2	4	6.909
SE0014R	gamma_HCH	air+aerosol	3	2.759	4.348	9.333	9.839	8.167	10.839	11.581	9	8.5	4.933	4.452	7.39
IS0091R	HCB	air+aerosol	4.674	3.239	3.121	2.475	2.68	3.505	2.068	2.866	2.21	2.147	1.72	1.444	2.682
NO0001R	HCB	air+aerosol	76.227	53.943	66.539	67.849	-	65.888	62.771	60.907	58.484	69.253	62.879	57.531	63.897
NO0042G	HCB	air+aerosol	63.804	60.62	66.75	66.356	68.726	73.379	61.277	71.012	66.435	62.48	61.499	59.376	65.117
NO0042G	anthanthrene	air+aerosol	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
CZ0003R	anthracene	air+aerosol	0.285	0.279	0.226	0.059	0.027	0.034	0.027	0.037	0.091	0.311	0.345	1.056	0.241
ES0008R	anthracene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.004	-
FI0096R	anthracene	air+aerosol	0.012	0.012	0.003	0.002	0.009	0.005	0.003	0.002	0.004	0.002	0.003	0.009	0.005
GB0014R	anthracene	air+aerosol	0.02	0.02	0.02	0.18	0.18	0.18	0.26	0.26	0.26	0.065	0.065	0.065	0.131
NO0042G	anthracene	air+aerosol	0.004	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SE0012R	anthracene	air+aerosol	0.036	0.056	0.002	0.031	0.002	0.002	0.001	0.001	0.003	0.001	-	0.012	0.013
SE0014R	anthracene	air+aerosol	0.06	0.024	0.012	0.008	0.006	0.004	0.004	0.003	0.003	0.026	0.035	0.028	0.017
CZ0003R	benz_a_anthracene	air+aerosol	0.479	0.364	0.418	0.106	0.024	0.017	0.01	0.019	0.059	0.207	0.766	0.55	0.252
ES0008R	benz_a_anthracene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.076	-
FI0096R	benz_a_anthracene	air+aerosol	0.26	0	0.011	0.007	-	-	0.004	0.003	0.005	0.001	0.008	0.022	0.032
GB0014R	benz_a_anthracene	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.017	0.017	0.017	0.061	0.061	0.061	0.025
NO0042G	benz_a_anthracene	air+aerosol	0.018	0.013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.004
SE0012R	benz_a_anthracene	air+aerosol	0.023	0.038	0.03	0.009	0.009	0.005	0.002	0.009	0.021	0.036	-	0.068	0.023
SE0014R	benz_a_anthracene	air+aerosol	0.222	0.098	0.053	0.038	0.069	0.017	0.03	0.006	0.007	0.073	0.065	0.051	0.059

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CZ0003R	benzo_a_pyrene	air+aerosol	0.276	0.214	0.372	0.104	0.022	0.016	0.011	0.034	0.077	0.272	1.035	0.86	0.279
ES0008R	benzo_a_pyrene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.046	-
FI0096R	benzo_a_pyrene	air+aerosol	0.089	0.14	0.021	0.016	-	0.032	0.014	0.003	0.005	0.003	0.012	0.034	0.033
GB0014R	benzo_a_pyrene	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.012	0.012	0.012	0.059	0.059	0.059	0.023
LV0010R	benzo_a_pyrene	aerosol	0.251	0.185	0.099	0.027	0.014	0.017	0.012	0.017	0.015	0.23	0.45	0.64	0.163
LV0016R	benzo_a_pyrene	aerosol	0.17	0.07	0.029	0.07	0.1	0.014	0.016	0.679	0.021	0.06	0.8	0.13	0.18
NO0042G	benzo_a_pyrene	air+aerosol	0.014	0.013	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003
SE0012R	benzo_a_pyrene	air+aerosol	0.043	0.083	0.036	0.024	0.01	0.001	0.003	0.005	0.024	0.035	-	0.056	0.029
SE0014R	benzo_a_pyrene	air+aerosol	0.28	0.133	0.074	0.056	0.046	0.032	0.017	0.007	0.009	0.097	0.073	0.051	0.068
ES0008R	benzo_b_fluoranthene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.1	-
FI0096R	benzo_b_fluoranthene	air+aerosol	0.043	0.22	0.038	0.034	0.004	0.01	0.009	0.011	0.017	0.009	0.015	0.064	0.039
SE0014R	benzo_b_fluoranthene	air+aerosol	0.353	0.201	0.116	0.095	0.029	0.013	0.013	0.013	0.018	0.168	0.139	0.109	0.099
NO0042G	benzo_e_pyrene	air+aerosol	0.024	0.021	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.005	0.005
ES0008R	benzo_ghi_perylene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.042	-
FI0096R	benzo_ghi_perylene	air+aerosol	0.035	0.12	0.028	0.019	0.002	0.004	0.005	0.005	0.011	0.007	0.014	0.05	0.025
GB0014R	benzo_ghi_perylene	air+aerosol	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.083	0.083	0.083	0.031
NO0042G	benzo_ghi_perylene	air+aerosol	0.022	0.02	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.005	0.005
SE0012R	benzo_ghi_perylene	air+aerosol	0.094	0.142	0.052	0.059	0.01	0.002	0.006	0.009	0.038	0.046	-	0.066	0.048
SE0014R	benzo_ghi_perylene	air+aerosol	0.265	0.143	0.075	0.057	0.02	0.011	0.008	0.01	0.013	0.139	0.107	0.084	0.073
ES0008R	benzo_k_fluoranthene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.052	-
FI0096R	benzo_k_fluoranthene	air+aerosol	0.043	0.22	0.038	0.034	0.004	0.01	0.009	0.011	0.017	0.009	0.015	0.064	0.039
SE0014R	benzo_k_fluoranthene	air+aerosol	0.353	0.201	0.116	0.095	0.029	0.013	0.013	0.013	0.018	0.168	0.139	0.109	0.099
NO0042G	biphenyl	air+aerosol	1.41	1.64	0.428	0.121	0.027	0.019	0.017	0.018	0.132	0.1	0.653	0.593	0.412
ES0008R	chrysene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.058	-
GB0014R	chrysene	air+aerosol	0.04	0.04	0.04	0.01	0.01	0.01	0.026	0.026	0.026	0.13	0.13	0.13	0.052
FI0096R	chrysene_triphenylene	air+aerosol	0.3	0.25	0.037	0.041	-	-	0.019	0.014	0.024	0.014	0.021	0.067	0.079
NO0042G	chrysene_triphenylene	air+aerosol	0.054	0.042	0.009	0.003	0.001	0.002	0.001	0.001	0.001	0.001	0.015	0.019	0.012
SE0014R	chrysene_triphenylene	air+aerosol	0.456	0.241	0.136	0.111	0.113	0.07	0.063	0.017	0.022	0.165	0.18	0.155	0.138
IS0091R	cis_CD	air+aerosol	0.563	0.667	0.607	0.695	0.566	0.605	0.538	0.478	0.42	0.496	0.435	0.41	0.54
NO0042G	cis_CD	air+aerosol	0.688	0.637	0.737	0.674	0.605	0.516	0.688	0.658	0.577	0.809	0.737	0.594	0.663
NO0042G	cis_NO	air+aerosol	0.043	0.05	0.047	0.056	0.075	0.088	0.105	0.11	0.087	0.104	0.067	0.04	0.073
NO0042G	coronene	air+aerosol	0.022	0.02	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NO0042G	cyclopenta_cd_pyrene	air+aerosol	0.005	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
NO0042G	dibenzo_ac_ah_anthracenes	air+aerosol	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ES0008R	dibenzo_ah_anthracene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.037	-
NO0042G	dibenzofuran	air+aerosol	1.424	1.781	0.664	0.385	0.073	0.04	0.06	0.04	0.202	0.152	0.681	0.945	0.519
NO0042G	dibenzothiophene	air+aerosol	0.022	0.031	0.011	0.004	0.002	0.002	0.003	0.002	0.003	0.002	0.012	0.024	0.01
IS0091R	dieldrin	air+aerosol	0.68	0.712	0.785	0.83	0.679	0.54	0.499	0.515	0.345	0.491	0.39	0.346	0.567
CZ0003R	fluoranthene	air+aerosol	3.385	2.578	2.729	0.835	0.297	0.374	0.237	0.483	0.933	3.005	4.407	4.377	1.98
ES0008R	fluoranthene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.084	-
FI0096R	fluoranthene	air+aerosol	0.3	0.5	0.18	0.09	0.03	0.06	0.073	0.07	0.1	0.09	0.08	0.28	0.155
GB0014R	fluoranthene	air+aerosol	0.42	0.42	0.42	0.34	0.34	0.34	0.62	0.62	0.62	0.79	0.79	0.79	0.543
NO0042G	fluoranthene	air+aerosol	0.125	0.108	0.035	0.009	0.006	0.011	0.008	0.005	0.004	0.003	0.029	0.063	0.032
SE0012R	fluoranthene	air+aerosol	1.77	2.64	0.4	0.82	0.09	0.11	0.04	0.12	0.18	0.49	-	0.54	0.655
SE0014R	fluoranthene	air+aerosol	1.35	0.79	0.453	0.369	0.146	0.087	0.11	0.104	0.1	0.6	0.589	0.611	0.422
CZ0003R	fluorene	air+aerosol	4.86	3.183	3.797	1.154	0.46	0.602	0.303	0.524	1.447	3.298	3.472	8.546	2.711
NO0042G	fluorene	air+aerosol	0.675	0.706	0.223	0.068	0.02	0.02	0.025	0.018	0.044	0.035	0.264	0.48	0.206
CZ0003R	inden_123cd_pyrene	air+aerosol	0.295	0.159	0.428	0.124	0.021	0.014	0.008	0.038	0.086	0.377	1.068	0.916	0.3
ES0008R	inden_123cd_pyrene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.038	-
FI0096R	inden_123cd_pyrene	air+aerosol	0.021	0.006	0.012	0.009	0.006	0.002	0.003	0.003	0.008	0.007	0.014	0.035	0.011
GB0014R	inden_123cd_pyrene	air+aerosol	0	0	0	0.01	0.01	0.01	0.012	0.012	0.012	0.067	0.067	0.067	0.022
NO0042G	inden_123cd_pyrene	air+aerosol	0.023	0.019	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.005
SE0012R	inden_123cd_pyrene	air+aerosol	0.136	0.207	0.058	0.084	0.014	0.001	0.005	0.008	0.044	0.055	-	0.087	0.064
SE0014R	inden_123cd_pyrene	air+aerosol	0.245	0.138	0.073	0.062	0.026	0.013	0.012	0.006	0.01	0.126	0.083	0.065	0.067
NO0042G	N1methylphenanthrene	air+aerosol	0.011	0.009	0.004	0.002	0.003	0.005	0.005	0.004	0.002	0.002	0.004	0.006	0.005
NO0042G	N2methylanthracene	air+aerosol	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
NO0042G	N2methylphenanthrene	air+aerosol	0.016	0.014	0.007	0.004	0.005	0.008	0.009	0.007	0.004	0.003	0.006	0.013	0.008
NO0042G	naphtalene	air+aerosol	2.359	1.43	0.224	0.072	0.081	0.065	0.048	0.053	0.049	0.061	0.752	0.684	0.466
NO0042G	op_DDD	air+aerosol	0.036	0.042	0.026	0.015	0.012	0.011	0.015	0.012	0.01	0.016	0.018	0.022	0.019
NO0042G	op_DDE	air+aerosol	0.205	0.237	0.18	0.095	0.033	0.016	0.031	0.018	0.02	0.064	0.121	0.157	0.098
IS0091R	op_DDT	air+aerosol	0.094	0.09	0.08	0.082	0.083	0.08	0.162	0.172	0.16	0.202	0.178	0.175	0.13
NO0042G	op_DDT	air+aerosol	0.389	0.473	0.356	0.202	0.094	0.063	0.182	0.102	0.079	0.218	0.273	0.251	0.223

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NO0042G	PCB_18	air+aerosol	2.142	2.065	2.003	2.011	1.592	1.949	4.855	1.662	1.316	1.583	1.827	1.774	2.045
CZ0003R	PCB_28	air+aerosol	13.562	10.5	8.05	8.25	7.5	11.45	13.75	18.188	7.35	4.875	4.375	7.8	9.562
FI0096R	PCB_28	air+aerosol	1.1	0.72	1.2	1.1	1.2	4	4.764	2	2.9	1.5	0.93	1.3	1.929
GB0014R	PCB_28	air+aerosol	5.6	5.6	5.6	15	15	15	19	19	19	11	11	11	12.645
IS0091R	PCB_28	air+aerosol	4.187	4.138	3.676	3.8	3.893	3.658	6.971	6.092	3.775	4.933	4.455	4.563	4.52
NO0001R	PCB_28	air+aerosol	1.361	1.083	1.657	1.827	-	2.072	1.527	2.46	0.979	2.039	1.531	1.689	1.636
NO0042G	PCB_28	air+aerosol	1.512	1.38	1.443	1.54	1.489	2.518	6.364	2.097	1.506	1.452	1.344	1.387	1.969
SE0012R	PCB_28	air+aerosol	1.24	1.27	0.95	3.9	1.22	2.04	2.4	1.92	1.11	-	0.76	1.16	1.634
SE0014R	PCB_28	air+aerosol	1.27	1.031	1.178	1.973	1.848	1.327	1.723	1.945	2.163	1.75	1.293	1.335	1.57
IS0091R	PCB_31	air+aerosol	3.988	3.962	3.519	3.635	3.725	3.5	4.057	2.906	2.255	3.544	3.385	3.427	3.494
NO0042G	PCB_31	air+aerosol	1.43	1.288	1.362	1.441	1.427	2.392	6.06	2.033	1.415	1.373	1.243	1.308	1.865
NO0042G	PCB_33	air+aerosol	1.017	0.889	0.953	1.068	1.12	1.973	5.071	1.701	1.153	1.016	0.889	0.867	1.447
NO0042G	PCB_37	air+aerosol	0.159	0.138	0.134	0.151	0.171	0.334	0.904	0.29	0.2	0.162	0.145	0.168	0.241
NO0042G	PCB_47	air+aerosol	0.413	0.402	0.455	0.396	0.363	0.566	1.376	0.509	0.318	0.378	0.452	0.506	0.507
CZ0003R	PCB_52	air+aerosol	15.812	27.25	13.8	11.5	17	12.65	16.25	21.625	8.35	17	11.5	14.4	15.341
FI0096R	PCB_52	air+aerosol	1	0.72	1.3	1.3	1.3	4.3	5	2.8	2.3	1.1	0.5	0.96	1.915
GB0014R	PCB_52	air+aerosol	2.5	2.5	2.5	6.4	6.4	6.4	14	14	14	6.9	6.9	6.9	7.453
IS0091R	PCB_52	air+aerosol	3.239	1.171	1.734	1.877	1.152	1.988	2.573	2.369	2.115	2.867	2.85	2.907	2.239
NO0001R	PCB_52	air+aerosol	1.261	0.992	1.339	1.5	-	1.703	1.222	2.3	0.888	1.424	1.258	1.626	1.396
NO0042G	PCB_52	air+aerosol	0.988	0.975	1.07	0.978	0.806	0.993	2.194	0.833	0.635	0.79	0.848	1.026	1.004
SE0012R	PCB_52	air+aerosol	1.03	0.97	0.66	2.4	1.17	2.17	2.63	2.43	1.01	-	0.65	1.09	1.474
SE0014R	PCB_52	air+aerosol	1.26	1.11	1.278	1.947	2.226	1.857	2.335	3.494	3.363	1.7	0.997	1.497	1.918
NO0042G	PCB_66	air+aerosol	0.256	0.269	0.251	0.235	0.201	0.281	0.681	0.252	0.186	0.21	0.226	0.735	0.316
NO0042G	PCB_74	air+aerosol	0.174	0.182	0.17	0.165	0.138	0.18	0.417	0.146	0.11	0.135	0.145	0.366	0.194
NO0042G	PCB_99	air+aerosol	0.186	0.206	0.188	0.188	0.138	0.118	0.242	0.096	0.082	0.127	0.158	0.248	0.165
CZ0003R	PCB_101	air+aerosol	5.5	6.25	7.3	10.75	8	7.45	4.25	6	2.25	1.625	1.375	18.05	6.736
FI0096R	PCB_101	air+aerosol	0.64	0.34	0.65	0.57	0.54	1.7	1.764	0.36	1.1	0.47	0.17	0.46	0.733
GB0014R	PCB_101	air+aerosol	1.2	1.2	1.2	2.6	2.6	2.6	1.2	1.2	1.2	0.7	0.7	0.7	1.422
IS0091R	PCB_101	air+aerosol	0.775	0.574	0.544	0.66	0.423	0.405	0.788	0.699	0.6	0.661	0.815	0.862	0.65
NO0001R	PCB_101	air+aerosol	0.673	0.599	0.746	0.9	-	0.972	0.776	1.658	0.533	0.786	0.719	0.804	0.821
NO0042G	PCB_101	air+aerosol	0.443	0.469	0.473	0.448	0.337	0.342	0.753	0.322	0.251	0.341	0.392	0.545	0.425

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SE0012R	PCB_101	air+aerosol	0.79	0.78	0.58	1.42	1.52	3.16	4.62	4.11	2	-	0.59	0.9	1.861
SE0014R	PCB_101	air+aerosol	1.13	1.038	1.118	1.953	2.561	2.107	3.719	5.271	3.4	1.9	1.333	1.19	2.262
IS0091R	PCB_105	air+aerosol	0.094	0.09	0.08	0.082	0.083	0.08	0.082	0.087	0.082	0.101	0.09	0.09	0.087
NO0042G	PCB_105	air+aerosol	0.05	0.059	0.042	0.043	0.032	0.03	0.061	0.025	0.018	0.027	0.036	0.104	0.044
NO0042G	PCB_114	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.011	0.01
CZ0003R	PCB_118	air+aerosol	6.125	7.938	2.75	0.688	1.438	3.15	0.938	2.25	0.8	0.875	0.5	0.65	2.303
FI0096R	PCB_118	air+aerosol	0.21	0.14	0.25	0.21	0.27	0.54	0.438	0.36	0.29	0.14	-	0.13	0.265
GB0014R	PCB_118	air+aerosol	1.01	1.01	1.01	1.01	1.01	1.01	1.4	1.4	1.4	0.395	0.395	0.395	0.954
IS0091R	PCB_118	air+aerosol	0.263	0.278	0.16	0.165	0.17	0.16	0.164	0.172	0.16	0.202	0.178	0.175	0.187
NO0001R	PCB_118	air+aerosol	0.194	0.187	0.379	0.572	-	0.47	0.285	0.491	0.164	0.239	0.184	0.354	0.317
NO0042G	PCB_118	air+aerosol	0.172	0.197	0.147	0.142	0.106	0.098	0.201	0.086	0.061	0.098	0.121	0.26	0.142
SE0012R	PCB_118	air+aerosol	0.29	0.29	0.22	0.75	0.53	0.92	1.34	1.2	0.61	-	0.2	0.33	0.607
SE0014R	PCB_118	air+aerosol	0.373	0.382	0.391	0.612	0.842	0.745	1.254	1.771	1.1	0.655	0.405	0.355	0.753
NO0042G	PCB_122	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO0042G	PCB_123	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.012	0.01
NO0042G	PCB_128	air+aerosol	0.026	0.029	0.023	0.022	0.017	0.015	0.033	0.014	0.01	0.013	0.015	0.023	0.02
CZ0003R	PCB_138	air+aerosol	9.75	6.75	5.8	6	7.312	9.6	4.438	6.312	3.4	3	3.125	3.95	5.779
FI0096R	PCB_138	air+aerosol	0.22	0.15	0.24	0.22	0.2	0.38	0.418	0.44	0.36	0.22	0.16	0.19	0.268
GB0014R	PCB_138	air+aerosol	0.4	0.4	0.4	1	1	1	2.1	2.1	2.1	1	1	1	1.125
IS0091R	PCB_138	air+aerosol	0.181	0.278	0.16	0.165	0.17	0.16	0.085	0.087	0.082	0.101	0.09	0.09	0.137
NO0001R	PCB_138	air+aerosol	0.262	0.238	0.411	0.569	-	0.494	0.333	0.748	0.196	0.33	0.234	0.268	0.364
NO0042G	PCB_138	air+aerosol	0.166	0.194	0.151	0.131	0.1	0.089	0.17	0.075	0.054	0.086	0.097	0.144	0.121
SE0012R	PCB_138	air+aerosol	0.5	0.54	0.33	0.76	0.54	0.89	1.2	1.19	0.63	-	0.4	0.44	0.675
SE0014R	PCB_138	air+aerosol	0.854	0.78	0.735	1.388	1.958	1.483	3.01	4.426	2.084	1.45	0.9	0.732	1.694
NO0042G	PCB_141	air+aerosol	0.035	0.037	0.039	0.031	0.023	0.02	0.041	0.019	0.013	0.021	0.025	0.033	0.028
NO0042G	PCB_149	air+aerosol	0.23	0.254	0.277	0.221	0.169	0.156	0.319	0.157	0.122	0.183	0.181	0.219	0.206
CZ0003R	PCB_153	air+aerosol	7.062	6.625	3.8	4	3.438	5.4	5.375	8.25	3.95	4.062	3.188	2.85	4.769
FI0096R	PCB_153	air+aerosol	0.33	0.21	0.27	0.33	0.29	0.52	0.635	0.49	0.37	0.19	-	0.23	0.357
GB0014R	PCB_153	air+aerosol	0.6	0.6	0.6	1.4	1.4	1.4	1.9	1.9	1.9	0.9	0.9	0.9	1.2
IS0091R	PCB_153	air+aerosol	0.181	0.317	0.16	0.165	0.17	0.16	0.323	0.435	0.25	0.277	0.275	0.245	0.247

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NO0001R	PCB_153	air+aerosol	0.433	0.392	0.818	1.238	-	0.996	0.554	1.204	0.318	0.512	0.384	0.436	0.65
NO0042G	PCB_153	air+aerosol	0.254	0.307	0.246	0.197	0.144	0.129	0.235	0.115	0.084	0.136	0.148	0.224	0.184
SE0012R	PCB_153	air+aerosol	0.55	0.56	0.4	0.86	0.62	1.1	1.54	1.51	0.77	-	0.45	0.54	0.809
SE0014R	PCB_153	air+aerosol	0.93	0.903	0.843	1.533	2.152	1.64	3.358	4.748	2.358	1.6	1.002	0.862	1.874
IS0091R	PCB_156	air+aerosol	0.171	0.182	0.16	0.165	0.17	0.16	0.085	0.087	0.082	0.101	0.09	0.09	0.128
NO0042G	PCB_156	air+aerosol	0.013	0.013	0.01	0.01	0.01	0.01	0.015	0.01	0.01	0.01	0.01	0.012	0.011
NO0042G	PCB_157	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO0042G	PCB_167	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO0042G	PCB_170	air+aerosol	0.013	0.013	0.015	0.014	0.013	0.014	0.033	0.014	0.01	0.011	0.011	0.023	0.015
CZ0003R	PCB_180	air+aerosol	6	5.25	2.2	1.625	2	4.3	1.5	1.688	2	1.25	1.25	0.65	2.462
FI0096R	PCB_180	air+aerosol	0.051	0.005	0.04	0.047	0.036	0.1	0.119	0.1	0.056	0.049	-	0.051	0.06
GB0014R	PCB_180	air+aerosol	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.2	0.2	0.2	0.25
IS0091R	PCB_180	air+aerosol	0.176	0.182	0.16	0.165	0.17	0.16	0.173	0.145	0.138	0.172	0.2	0.138	0.165
NO0001R	PCB_180	air+aerosol	0.143	0.111	0.303	0.381	-	0.229	0.145	0.298	0.081	0.167	0.095	0.219	0.195
NO0042G	PCB_180	air+aerosol	0.038	0.054	0.046	0.038	0.031	0.027	0.06	0.024	0.014	0.022	0.025	0.086	0.039
SE0012R	PCB_180	air+aerosol	0.26	0.28	0.12	0.22	0.18	0.22	0.28	0.29	0.17	-	0.23	0.15	0.218
SE0014R	PCB_180	air+aerosol	0.413	0.35	0.293	0.57	0.729	0.456	1.073	1.671	0.668	0.53	0.388	0.244	0.632
NO0042G	PCB_183	air+aerosol	0.019	0.022	0.018	0.013	0.012	0.01	0.017	0.012	0.01	0.011	0.011	0.025	0.015
NO0042G	PCB_187	air+aerosol	0.051	0.064	0.053	0.038	0.029	0.024	0.043	0.028	0.019	0.029	0.03	0.078	0.041
NO0042G	PCB_189	air+aerosol	0.013	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO0042G	PCB_194	air+aerosol	0.012	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.027	0.012
NO0042G	PCB_206	air+aerosol	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.018	0.011
NO0042G	PCB_209	air+aerosol	0.011	0.013	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NO0042G	perylene	air+aerosol	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
CZ0003R	phenanthrene	air+aerosol	9.376	6.863	6.853	2.408	1.148	1.764	1.023	2.102	3.65	9.676	11.136	14.009	5.891
ES0008R	phenanthrene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.046	-
FI0096R	phenanthrene	air+aerosol	0.84	0.88	0.39	0.19	0.15	0.4	0.483	0.3	0.39	0.31	0.22	1	0.467
GB0014R	phenanthrene	air+aerosol	1.5	1.5	1.5	4.3	4.3	4.3	3.4	3.4	3.4	3.4	3.4	3.4	3.147

Site	Comp	matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NO0042G	phenanthrene	air+aerosol	0.16	0.179	0.062	0.023	0.022	0.038	0.03	0.022	0.019	0.014	0.049	0.197	0.065
SE0012R	phenanthrene	air+aerosol	2.75	2.48	0.74	1.68	0.66	0.72	0.04	0.75	1.04	0.9	-	0.76	1.138
SE0014R	phenanthrene	air+aerosol	2.66	1.69	0.989	0.888	0.514	0.338	0.469	0.464	0.357	1.4	1.753	1.811	1.085
CZ0003R	pp_DDD	air+aerosol	0.5	0.5	0.8	1.125	1.688	2.7	2.125	2.5	1.5	0.938	4.375	7.9	2.298
FI0096R	pp_DDD	air+aerosol	0.005	0.15	0.09	0.19	0.11	0.005	0.04	0.07	0.03	0.06	0.06	0.1	0.078
IS0091R	pp_DDD	air+aerosol	0.176	0.182	0.16	0.165	0.337	0.16	0.164	0.172	0.16	0.202	0.178	0.175	0.186
NO0042G	pp_DDD	air+aerosol	0.064	0.078	0.022	0.013	0.016	0.015	0.03	0.013	0.011	0.015	0.064	0.027	0.031
SE0014R	pp_DDD	air+aerosol	0.452	0.338	0.273	0.421	0.234	0.152	0.174	0.114	0.125	0.595	0.168	0.067	0.254
CZ0003R	pp_DDE	air+aerosol	17.25	17	24.6	24	17.812	20.8	17.312	22.75	17.6	42.75	24.25	13.6	21.452
FI0096R	pp_DDE	air+aerosol	1	0.32	0.52	0.36	0.17	0.62	0.512	0.31	0.92	0.48	0.44	0.68	0.522
IS0091R	pp_DDE	air+aerosol	0.263	0.182	0.16	0.165	0.17	0.16	0.164	0.172	0.16	0.202	0.178	0.175	0.179
NO0042G	pp_DDE	air+aerosol	1.344	1.447	0.897	0.43	0.173	0.152	0.165	0.156	0.084	0.359	0.658	0.77	0.554
SE0012R	pp_DDE	air+aerosol	1.1	1.4	1.6	2.5	1.2	2.1	1.4	2.3	1.7	-	6.8	12.6	3.155
SE0014R	pp_DDE	air+aerosol	2.16	1.552	1.948	3.027	2.716	1.263	1.484	2.361	2.642	3.85	2.827	1.771	2.291
CZ0003R	pp_DDT	air+aerosol	14	10.125	4.25	8.188	9.375	10.25	3.25	7.938	3.2	4.875	6.562	9.05	7.519
FI0096R	pp_DDT	air+aerosol	0.15	0.09	0.12	0.19	0.09	0.37	0.37	0.19	0.3	0.1	0.13	0.1	0.183
IS0091R	pp_DDT	air+aerosol	0.191	0.182	0.16	0.165	0.918	0.16	0.164	0.172	0.16	0.202	0.178	0.175	0.237
NO0042G	pp_DDT	air+aerosol	0.204	0.212	0.124	0.076	0.035	0.034	0.086	0.051	0.029	0.103	0.13	0.121	0.101
SE0014R	pp_DDT	air+aerosol	0.68	0.562	0.587	1.296	1.032	0.747	1.041	1.348	1.2	1.2	0.676	0.351	0.896
CZ0003R	pyrene	air+aerosol	2.065	1.559	1.706	0.507	0.173	0.195	0.118	0.241	0.568	1.854	3.249	3.007	1.278
ES0008R	pyrene	air+aerosol	-	-	-	-	-	-	-	-	-	-	-	0.096	-
FI0096R	pyrene	air+aerosol	0.15	0.32	0.09	0.05	0.01	0.03	0.036	0.03	0.06	0.04	0.05	0.15	0.085
GB0014R	pyrene	air+aerosol	0.21	0.21	0.21	0.16	0.16	0.16	0.34	0.34	0.34	0.49	0.49	0.49	0.3
NO0042G	pyrene	air+aerosol	0.082	0.061	0.016	0.005	0.004	0.007	0.005	0.003	0.002	0.001	0.015	0.02	0.017
SE0012R	pyrene	air+aerosol	0.34	0.48	0.12	0.21	0.04	0.03	0	0.04	0.1	0.27	-	0.35	0.18
SE0014R	pyrene	air+aerosol	0.947	0.506	0.297	0.239	0.08	0.046	0.047	0.054	0.048	0.37	0.477	0.465	0.284
IS0091R	trans_CD	air+aerosol	0.231	0.283	0.228	0.255	0.159	0.14	0.178	0.09	0.172	0.183	0.195	0.2	0.193
NO0042G	trans_CD	air+aerosol	0.42	0.37	0.41	0.322	0.16	0.094	0.137	0.124	0.083	0.233	0.308	0.31	0.25
IS0091R	trans_NO	air+aerosol	0.325	0.418	0.368	0.44	0.316	0.225	0.279	0.226	0.172	0.242	0.225	0.2	0.286
NO0042G	trans_NO	air+aerosol	0.616	0.57	0.668	0.648	0.562	0.466	0.545	0.482	0.42	0.656	0.607	0.488	0.564