

**Appendix A: Tables with measurements available at HELCOM  
stations**

## Observed air concentrations of nitrogen species at HELCOM stations, 2002

Total nitrate (NO<sub>3</sub>+HNO<sub>3</sub>)

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
DE0009R	Zingst	HNO <sub>3</sub> +NO <sub>3</sub>	1.5	0.71	1.5	1.51	1.1	0.77	0.72	0.92	0.77	0.92	1.09	1.03	1.05
DK0005R	Keldsnor	HNO <sub>3</sub> +NO <sub>3</sub>	1.48	0.77	1.94	1.86	1.23	0.75	0.73	1.11	0.89	0.83	1.07	0.88	1.14
DK0008R	Amholt	HNO <sub>3</sub> +NO <sub>3</sub>	0.89	0.42	1.33	1.33	0.89	0.53	0.61	0.59	0.78	0.6	0.63	0.41	0.73
FI0009R	Utrö	HNO <sub>3</sub> +NO <sub>3</sub>	0.48	0.38	0.49	0.68	0.44	0.43	0.48	0.59	0.42	0.23	0.34	0.37	0.45
FI0017R	Virolahti II	HNO <sub>3</sub> +NO <sub>3</sub>	0.36	0.31	0.41	0.52	0.28	0.28	0.28	0.26	0.21	0.16	0.25	0.32	0.3
LT0015R	Preila	HNO <sub>3</sub> +NO <sub>3</sub>	1.02	0.75	1.25	1.1	0.6	0.78	0.58	0.7	0.48	0.38	0.75	1.16	0.78
LV0010R	Rucava	HNO <sub>3</sub> +NO <sub>3</sub>	0.87	0.48	0.83	0.69	0.52	0.57	0.29	0.38	0.29	0.2	0.49	0.39	0.5
LV0016R	Zosemi	HNO <sub>3</sub> +NO <sub>3</sub>	0.61	0.36	0.34	0.33	0.2	0.27	0.28	0.23	0.17	0.12	0.24	0.39	0.29
PL0004R	Leba	HNO <sub>3</sub> +NO <sub>3</sub>	0.78	0.65	1.23	0.98	0.66	0.38	0.41	0.46	0.39	0.47	0.76	0.84	0.78
SE0005R	Bredkälen	HNO <sub>3</sub> +NO <sub>3</sub>	0.05	0.14	0.05	0.09	0.08	0.05	0.06	0.06	0.05	0.03	0.04	0.05	0.06
SE0011R	Vavithil	HNO <sub>3</sub> +NO <sub>3</sub>	0.74	0.73	1.48	1.07	0.43	0.4	0.34	0.33	0.53	0.39	0.54	0.37	0.61
SE0014R	Rådö	HNO <sub>3</sub> +NO <sub>3</sub>	1.07	0.52	1.75	1.22	0.59	0.51	0.71	0.41	0.56	0.39	0.49	0.24	0.7

Total reduced nitrogen (NH<sub>3</sub>+NH<sub>4</sub>)

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
DE0009R	Zingst	NH <sub>3</sub> +NH <sub>4</sub>	1.95	1.26	3.07	3.34	2.6	1.39	1.44	2.12	1.65	1.1	1.44	1.48	1.91
DK0005R	Keldsnor	NH <sub>3</sub> +NH <sub>4</sub>	2.29	1.26	4.13	3.92	2.75	2.16	2.22	3.37	3.04	1.89	1.74	1.63	2.54
DK0008R	Amholt	NH <sub>3</sub> +NH <sub>4</sub>	1.34	0.56	1.92	2.33	1.06	0.89	1.17	1.48	1.3	0.87	0.97	0.67	1.22
FI0009R	Utrö	NH <sub>3</sub> +NH <sub>4</sub>	0.37	0.29	0.57	0.94	0.47	0.54	0.74	1.07	0.68	0.3	0.37	0.24	0.55
FI0017R	Virolahti II	NH <sub>3</sub> +NH <sub>4</sub>	0.48	0.35	0.61	1.27	0.84	0.76	1	1.17	0.74	0.41	0.44	0.38	0.71
LT0015R	Preila	NH <sub>3</sub> +NH <sub>4</sub>	1.45	1.09	1.77	2	1.8	1.41	1.52	2.79	1.87	0.82	1.79	2.08	1.69
LV0010R	Rucava	NH <sub>3</sub> +NH <sub>4</sub>	1.33	0.9	1.36	2.05	1.55	1.22	1.64	2.52	2.83	0.85	1.22	0.96	1.54
LV0016R	Zosemi	NH <sub>3</sub> +NH <sub>4</sub>	1.41	1.15	0.74	1.64	1.27	1.15	1.77	3.07	2.83	0.65	0.86	0.71	1.44
PL0004R	Leba	NH <sub>3</sub> +NH <sub>4</sub>	1.33	1.04	2.00	1.97	1.65	1.54	2.33	3.54	1.51	1.15	1.50	1.33	-
SE0005R	Bredkälen	NH <sub>3</sub> +NH <sub>4</sub>	0.06	0.1	0.08	0.43	0.32	0.18	0.26	0.4	0.14	0.13	0.05	0.1	0.19
SE0011R	Vavithil	NH <sub>3</sub> +NH <sub>4</sub>	0.65	0.63	1.98	2.33	1.21	1.49	1.14	2	1.55	0.68	0.86	0.62	1.26
SE0014R	Rådö	NH <sub>3</sub> +NH <sub>4</sub>	0.94	0.42	1.84	2.11	0.86	0.62	1.04	1.15	1.03	0.6	0.8	0.44	0.99

**Nitrate (NO<sub>3</sub>)**

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
LV0010R	Rucava	µg N/m <sup>3</sup>	0.44	0.37	0.12	0.11	0.07	0.06	0.05	0.07	0.04	0.04	0.04	0.07	0.12
LV0016R	Zoseeni	µg N/m <sup>3</sup>	0.27	0.28	0.05	0.09	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.08	0.08
PL0004R	Leba	µg N/m <sup>3</sup>	0.65	0.49	1.17	0.85	0.54	0.28	0.31	0.37	0.34	0.41	0.76	0.65	0.56

**Ammonium (NH<sub>4</sub>)**

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
LV0010R	Rucava	µg N/m <sup>3</sup>	1.01	0.72	1.14	1.53	0.95	0.82	0.98	1.4	0.82	0.63	1.02	0.82	0.99
LV0016R	Zoseeni	µg N/m <sup>3</sup>	0.9	0.84	0.64	1.57	0.83	0.79	0.74	0.68	0.72	0.42	0.6	0.53	0.77
PL0004R	Leba	µg N/m <sup>3</sup>	1.15	0.88	1.76	1.83	1.15	1.12	1.12	1.24	0.98	0.89	1.44	1.59	1.26

**Nitrogen dioxide (NO<sub>2</sub>)**

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
DE0009R	Zingst	µg N/m <sup>3</sup>	3.6	1.87	2.43	2.3	3.21	1.32	1.66	1.84	1.45	1.88	2.53	2.46	2.21
EE0009R	Lahemaa	µg N/m <sup>3</sup>	0.8	0.57	0.49	0.37	0.33	0.35	0.27	0.39	0.33	0.41	0.69	0.77	0.48
EE0011R	Viisandý	µg N/m <sup>3</sup>	1.06	0.92	0.94	1.3	0.72	0.55	0.42	0.41	0.38	0.35	0.85	0.7	0.7
FI0009R	Utró	µg N/m <sup>3</sup>	1.83	1.15	1.16	1.99	1.21	0.99	1.05	0.7	0.8	0.75	1.68	1.03	1.17
FI0017R	Virolahti II	µg N/m <sup>3</sup>	2.75	1.67	2.16	2.34	1.38	1.25	0.72	0.89	1.01	1.48	1.93	2.63	1.65
LT0015R	Priela	µg N/m <sup>3</sup>	2.22	1.34	1.3	1.18	0.86	0.88	0.99	1.22	1.15	1.2	1.59	1.78	1.29
LV0010R	Rucava	µg N/m <sup>3</sup>	1.31	0.88	0.88	0.98	0.82	0.38	0.49	0.67	0.48	0.26	0.81	0.65	0.68
LV0016R	Zoseeni	µg N/m <sup>3</sup>	1.08	0.77	0.76	0.66	0.42	0.37	0.46	0.67	0.61	0.71	0.74	1.04	0.69
PL0004R	Leba	µg N/m <sup>3</sup>	2.98	1.55	1.45	1.49	0.93	0.74	1.11	1.53	1.02	1.26	2.38	2.75	2.96
SE0005R	Bredválen	µg N/m <sup>3</sup>	0.28	0.25	0.09	0.13	0.07	0.07	0.05	0.15	0.05	0.12	0.17	0.26	0.14
SE0008R	Hoburgem	µg N/m <sup>3</sup>	2	1.45	1.31	1.77	1.47	1.03	0.91	0.62	0.45	0.48	1.06	0.74	1.11
SE0011R	Vavínil	µg N/m <sup>3</sup>	3.92	1.83	1.4	1.07	0.78	0.85	0.76	0.64	0.98	1.14	1.4	1.41	1.39
SE0014R	Rádó	µg N/m <sup>3</sup>	4.01	1.25	1.02	1.63	1.19	0.76	1.01	0.88	1.13	1.01	1.52	1.62	1.38

## Observed air concentrations of metal species at HELCOM stations, 2002

<b>Cadmium</b>			Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
Code	Component	Units													
DE0009R	Zingst	cadmium	0.17	0.08	0.26	0.28	0.12	0.08	0.11	0.19	0.11	0.14	0.25	0.4	0.18
DK0005R	Keldsør	cadmium	0.15	0.08	0.32	0.4	0.1	0.09	0.14	0.19	0.05	0.09	0.26	0.28	0.18
DK0008R	Arnholt	cadmium	0.06	0.08	0.24	0.3	-0.03	0.03	0.11	0.08	0.1	0.09	0.1	0.07	0.1
LT0015R	Prelia	cadmium	0.4	0.22	0.24	0.36	0.2	0.14	0.15	0.24	0.27	0.15	0.26	0.13	0.23
LV0010R	Rucava	cadmium	0.55	0.19	0.24	0.49	0.13	0.11	0.07	0.22	0.23	0.08	0.24	0.18	0.22
LV0016R	Zoseni	cadmium	0.19	0.18	0.17	0.29	0.09	0.1	0.21	1.88	0.14	0.07	0.15	0.23	0.3
SE0005R	Bredkälen	cadmium	0.03	0.01	0.02	0.07	0.04	0.02	0.01	0.03	0.02	0.01	0.01	0.02	0.02
SE0014R	Råö	cadmium	0.16	0.04	0.13	0.2	0.06	0.04	0.06	0.1	0.06	0.05	0.12	0.12	0.09

<b>Lead</b>			Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
Code	Component	Units													
DE0009R	Zingst	lead	8.88	4.78	8.14	7.82	5.14	2.91	3.38	5.27	3.66	5.87	10.78	16.02	6.91
DK0005R	Keldsør	lead	7.8	3.29	9.71	8.16	4.04	3.16	3.91	5.62	4.4	3.43	8.51	10.02	6.05
DK0008R	Arnholt	lead	4.17	1.73	4.39	6.88	2.73	1.76	2.85	3.57	3.3	2.13	3.92	5.27	3.57
LT0015R	Prelia	lead	0.92	7.4	6.55	9.75	6.37	4.75	5.19	6.44	6.77	4.4	9.17	5.24	6.88
LV0010R	Rucava	lead	1.69	5.39	4.61	8.44	5.63	10.07	2.19	3.27	5.15	2.56	5.08	5.4	5.63
LV0016R	Zoseni	lead	6.44	5.66	2.4	4.09	2.44	2.19	1.63	1.42	2.28	1.03	3.17	4.85	3.08
SE0005R	Bredkälen	lead	0.59	0.29	0.42	1.65	0.99	0.56	0.37	0.77	0.5	0.31	0.27	0.46	0.6
SE0014R	Råö	lead	5.17	1.21	4.18	5.55	2.19	1.32	2.5	2.98	2.03	1.25	3.5	3.32	2.89

<b>Mercury</b>			Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
Code	Component	Units													
DE0009R	Zingst	mercury	1.859	1.643	1.438	1.4	1.453	1.666	1.598	1.48	1.53	1.513	1.868	1.808	1.63
SE0014R	Råö	Mercury	1.74	2.13	1.76	1.68	1.72	1.62	1.62	1.48	1.53	1.46	1.88	1.65	1.67

**Observed air concentrations of gamma-HCH at HELCOM stations, 2002**

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual mean
SE0012R	Aspireten	gamma-HCH pg γ-HCH/m <sup>3</sup>	7	2	9	21	21	35	18	8	10	7	6	5	12.69
SE0014R	Rås	gamma_HCH pg γ-HCH/m <sup>3</sup>	8.06	5.14	11.68	21.78	26.27	13.45	11.29	8.9	11.1	7.04	4.1		11.62

**Observed depositions of nitrogen in precipitation at HELCOM stations, 2002**

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year total/N
DE0006R	Zingst	ammonium	22	24.48	31.25	41.47	59.12	30.16	52.04	33.38	13.02	26.94	14.64	9.95	358.58
		nitrate	21.9	27.12	25.57	28.35	38.53	24.91	35.95	25.08	8.54	34.21	25.91	12.32	308.5
		Precipitation_amount	mm	45.98	57.29	38.46	37.43	51.17	88.01	98.93	75.06	24.8	83.81	57.23	16.46
DK0005R	Keldsnor	ammonium	14.38	19.73	15.69	30.59	25.87	37.93	84.83	283.91	13.63	47.84	41.22	13.94	609.55
		nitrate	17.12	20.51	10.06	29.29	18.95	29.21	44.48	22.4	4.86	35.31	53.36	19.74	305.29
		precipitation_amount	mm	40.74	62.79	20.61	35.24	38.89	50.38	113.08	62.34	12.56	110.38	94.41	32.61
DK0006R	Arnholt	ammonium	26.13	12.39	23.64	12.11	18.04	39.37	4.47	41.61	13.91	26.76	33.47	7.27	259.16
		nitrate	41.13	22.14	16.02	12.5	16.82	45.44	16.69	38.03	20.18	44.51	53.93	10.29	337.67
		precipitation_amount	mm	65.11	77.74	27.88	15.62	37.62	86.58	75.09	78.16	58.38	88.77	81.66	19.11
DK0020R	Pedersker	ammonium	20.36	18.89	26.58	67.06	57.72	61.75	41.54	111.03	17.55	31.09	22.99	5.3	481.99
		nitrate	31.73	25.76	26.38	32.23	33.62	41.17	20.1	18.29	16.14	39.06	30.49	7.23	322.38
		precipitation_amount	mm	49.31	59.87	33.33	24.24	42.93	92.47	49.37	33.66	50.26	89.14	44.51	8.52
EE0009R	Lahemaa	ammonium	9.45	7.12	11.27	6.15	2.67	6.59	17.49	0.15	0.22	6.13	8.2	2.27	76.99
		nitrate	18.2	23.1	13.98	7.41	4.31	27.3	21.36	0.41	2.8	6.72	15.37	7.75	148.16
		precipitation_amount	mm	42.26	63.93	36.61	9.17	11.13	101.57	90.97	8.57	34.29	52.63	92.5	15.57

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year total/N
EE0011R Viisandy	ammonium	mg N/m2	10.68	11.7	7.26	9.24	35.27	11.6	3.78	6.39	10.18	4.21	123.42		
	nitrate	mg N/m2	18.32	6.3	60.86	15.38	16.13	4.96	4.69	4.36	15.22	11.99	140.9		264
	precipitation_amount	mm	38.16	39.26	44.99	12.1	11	70.4	9.36	55.5	22.8	39.44	17.86	432.6	
F0009R Uho	ammonium	mg N/m2	4.23	4.74	3.01	10.12	9.6	13.89	55.56	17.09	10.14	7.35	5.15	0.03	141.31
	nitrate	mg N/m2	12.16	11.63	4.96	8.17	6.13	16.84	30.94	8.76	5.95	8.96	10.03	0.14	124.61
	precipitation_amount	mm	19.4	16.2	4.7	4.2	8.9	32.4	79.7	25.1	13.7	33.1	19.4	0.3	257.1
F0017R Virolshill	ammonium	mg N/m2	15.69	14.25	15.34	7.45	13.6	14.19	19.6	1.87	1.49	5.94	22.79	2.21	134.15
	nitrate	mg N/m2	26.14	23.2	17.95	5.71	5.62	9.92	13.67	1.6	1.85	6.65	22.56	5.25	140.27
	precipitation_amount	mm	46.7	50.8	32.2	27.4	14	94.3	55.5	1.6	15	20.8	70.1	7.2	435.6
F0053R Hailuotai	ammonium	mg N/m2	3.63	8.21	8.48	6.1	3.36	5.61	9.55	3.68	2.8	3.57	3.65	1.16	60.19
	nitrate	mg N/m2	8.28	11.65	7.67	4.26	4.37	5.64	10.08	3.31	2.94	2.89	3.36	1.01	65.24
	precipitation_amount	mm	30.2	28.2	21.3	11.3	29.7	30.3	88.4	24.9	34.8	6.3	8.6	1.6	315.4
LT0015R Preila	ammonium	mg N/m2	11.03	14.91	17.78	16.64	24.66	25.67	19.37	25.62	32.65	13.5	14	216.03	
	nitrate	mg N/m2	29.43	36.71	21.46	12.56	16	26.63	20.28	20.44	40.79	21.8	10.72	258.62	
	precipitation_amount	mm	43	41	20	16	41	59	41	0	66	91	24	10	452
LV0010R Rucava	ammonium	mg N/m2	50.62	38.36	40.68	20.43	20.7	30.52	30.88	19.68	20.89	33.81	19.21	327.07	
	nitrate	mg N/m2	63.73	47.47	34.06	15.04	14	27.35	24.85	13.6	36.16	46.89	26.9	350.12	
	precipitation_amount	mm	93.5	82.3	40.3	12.6	25.4	110	61	0	76.1	103.9	59.8	28.1	695
LV0016R Zoseni	ammonium	mg N/m2	29.11	22.91	26.7	19.66	18.5	57.53	35.06	0.18	9.69	11.36	33.67	11.62	279.3
	nitrate	mg N/m2	34.22	33.91	23.94	10.79	12.68	21.45	15.68	1.58	7.49	18.51	45.48	18.51	241.36
	precipitation_amount	mm	71.8	75.4	45.1	23.9	44.7	90	47.8	4.4	45.8	73.5	60.5	34.2	617.1
PL0004R Leba	ammonium	mg N/m2	17.16	13.54	28.51	46.31	56.93	41.42	44.7	17.66	17.03	50.94	9.7	14.82	357.81
	nitrate	mg N/m2	22.64	24.17	26.16	32.74	45.62	30.57	22.08	14.63	12.03	58.34	14.61	21.67	326.66
	precipitation_amount	mm	48.8	52.8	36.7	37	122.1	99.8	53.4	19.6	50.5	168	31.4	25.9	746

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year total/N
SE0005R	ammonium	mg N/m2	0.25	0.74	0.84	11.91	4.54	3.73	3.06	10.14	6.38	1.74	0.53	0.29	44.01
	nitrate	mg N/m2	4.82	6.79	3.25	9.32	4.18	4.54	4.57	4.03	3.54	5.09	4.18	1.35	55.67
	precipitation_amount	mm	32.7	27.4	29.5	13.7	12.7	87.8	40.1	28.3	23.8	27	18.1	6.5	347.6
SE0011R	ammonium	mg N/m2	62.73	60.2	126.72	34.1	44.4	24.42	29.21	31.36	7	19.74	19.24	9.24	468.36
	nitrate	mg N/m2	81.09	72.8	82.5	30.69	34.78	24.42	26.67	13.44	4	40.89	27.38	11.88	450.54
	precipitation_amount	mm	153	140	66	31	74	66	127	28	20	141	74	44	964
SE0014R	ammonium	mg N/m2	38.59	10.42	21.47	27.1	41.4	35.43	58.44	14.77	10.74	9.47	38.59	1.02	305.66
	nitrate	mg N/m2	61.82	24.67	18.57	21.1	36.81	36.2	20.35	7.71	10.49	20.27	61.65	3.35	322.19
	precipitation_amount	mm	88.2	65.1	28	19.5	65.5	89.7	87.6	14.4	10.9	67.3	78.8	13.8	626.8

## Observed depositions of cadmium in precipitation at HELCOM stations, 2002

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year total/N
DE0009R	cadmium	µg Cd/m2	1.97	1.89	1.81	3.04	4.8	1.9	3.36	2.7	1	2.53	2.6	0.68	27.77
	precipitation_amount	mm	50.43	60.17	40.6	38.13	50.81	88.54	99	74.31	24.1	84.34	58.97	14.19	683.6
DK0006R	cadmium	µg Cd/m2	3.29	1.04	3.11	2.1	3.1	2.71	1.04	9.68	1.33	2.27	5.37	2.12	37.16
	precipitation_amount	mm	90.18	63.16	24.02	13.5	43.68	74.71	63.37	92.59	51.91	102.11	80.83	17.95	718.02
DK0020R	cadmium	µg Cd/m2	2.68	1.7	1.48	2.51	5.67	3.71	1.81	4.57	1.86	3.85	4.27	0.14	34.09
	precipitation_amount	mm	48.11	58.15	32.21	25.27	41.7	94.4	47.48	38.58	41.31	96.2	44.05	1.47	569.19
EE0009R	cadmium	µg Cd/m2	16.89	3.76	6.25	1.78	0.23	10.64	5.64	0.24	1	1.63	7.5	0.13	55.69
	precipitation_amount	mm	56.3	53.7	32.9	8.9	11.5	106.4	83.4	11.9	33.5	54.3	93.8	12.7	559.3
EE0011R	cadmium	µg Cd/m2	0.45	2.9	3.16	7.2	4.13	1.25	26.89						
	precipitation_amount	mm	45.3	43.6	33.5	10.6	12.5	72.5	79.1	0	55.4	22.8	45.9	11.4	432.6

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
F0009R	cadmium	µg Cd /m2	0.87	0.83	1.78	1.26	1.37	1.35	6.79	1.57	3.29	1.84	3.19	0.87	24.99
	precipitation_amount: mm		28.4	15.8	5.3	5.4	11.7	35.5	89.4	27.5	18.9	11.7	21.7	1.9	289
F0017R	cadmium	µg Cd /m2	3.31	1.93	2.99	1.64	2.04	1.53	3.52	0.28	0.47	1.96	6.28	1.12	27.07
	precipitation_amount: mm		47.9	43.8	17.5	28.2	14.2	95.4	61.7	1.7	14.3	15.8	64.1	7.4	412
F0053R	cadmium	µg Cd /m2	0.39	1.08	1.18	1.2	0.48	0.53	1.15	0.73	0.54	0.34	0.26	0.26	8.15
	precipitation_amount: mm		30.1	27	13.6	7.9	29.8	31.1	88.8	25.3	33.8	6.3	8.8	8.3	310.8
LT0015R	cadmium	µg Cd /m2	2.37	9.34	9.95	27.57	10.91	7.15	5	5.72	8.75	109.38	50.09	163.01	381.58
	precipitation_amount: mm		17.3	56.77	46.23	31.5	54.84	98.94	45.6	3.37	105.38	152.56	72.96	67.17	750.4
LV0010R	cadmium	µg Cd /m2	7.41	4.84	2.14	2.54	17.6	2.28	2.12	3.59	6.18	48.7			
	precipitation_amount: mm		0	82.3	40.3	12.6	25.4	11.0	0	0	78.1	105.9	59.8	28.1	540.5
LV0016R	cadmium	µg Cd /m2	2.28	2.25	1.43	1.34	8.1	0.7	1.83	3.67	4.24	31.46	57.3		
	precipitation_amount: mm		0	75.4	45.1	23.9	44.7	9.0	0	4.4	45.8	73.5	60.5	34.2	497.5
PL0004R	cadmium	µg Cd /m2	2.44	3.17	3.3	4.07	8.55	2.99	1.07	2.16	2.02	5.04	1.26	2.07	38.13
	precipitation_amount: mm		48.8	52.8	36.7	37	122.1	99.8	53.4	19.6	50.5	168	31.4	25.9	746
SE0005R	cadmium	µg Cd /m2	1.23	0.29	1.51	2.27	4.83	0.34	0.28	0.64	0.15	0.28	0.67	0.99	13.28
	precipitation_amount: mm		66.17	57.6	37.54	22.83	29.89	67.71	50.31	31.89	24.06	9.23	22.29	20.49	440
SE0051R	cadmium	µg Cd /m2	5.84	0.52	5.94	2	7.6	0.19	1.44	0.93	0.11	4.56	6.85	7.99	43.7
	precipitation_amount: mm		188	103	99	10	76	19	72	24.5	22.5	114	137	46.97	911.99

### Observed depositions of lead in precipitation at HELCOM stations, 2002

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
DE0009R	lead	µg Pb /m2	41.45	49.95	42.83	74.81	167.11	52.2	144.5	74.08	12.85	70.66	80.48	18.07	818.96
	precipitation_amount: mm		50.43	60.17	40.6	38.13	50.81	88.54	99	74.31	24.1	84.34	58.97	14.19	683.6

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
DK0006R	lead	µg Pb /m2	96.21	55.27	29.63	40.39	98.36	97.82	43.4	214.12	61.12	64.82	154.1	150.79	1125.84
	precipitation_amount:	mm	90.18	63.16	24.02	13.5	43.68	74.71	63.37	92.59	51.91	102.11	60.83	17.95	718.02
DK0020R	lead	µg Pb /m2	26.79	61.04	42.33	68.94	204.2	109.13	47.24	68.48	47.71	91.38	83.33	2.78	853.54
	precipitation_amount:	mm	48.11	58.15	32.21	25.27	41.7	94.4	47.48	38.58	41.31	96.2	44.05	1.47	569.19
EE0009R	lead	µg Pb /m2	70.38	69.81	36.19	36.49	0.57	5.32	4.17	0.59	1.68	2.71	4.69	17.78	250.38
	precipitation_amount:	mm	56.3	53.7	32.9	8.9	11.5	106.4	83.4	11.9	33.5	54.3	93.8	12.7	599.3
EE0011R	lead	µg Pb /m2	86.07	36.25	39.55	27.7	22.95	5.7	304.92						432.6
	precipitation_amount:	mm	45.3	43.6	33.5	10.6	12.5	72.5	79.1	0	55.4	22.8	45.9	11.4	432.6
FI0006R	lead	µg Pb /m2	27.98	21.68	36.04	34.83	42	65.67	110.86	36.85	96.19	50.08	60.33	18.45	602.96
	precipitation_amount:	mm	26.4	15.6	5.3	5.4	11.7	35.5	89.4	27.5	16.9	11.7	21.7	1.9	269
FI0017R	lead	µg Pb /m2	100.5	9	70.52	83.12	30.74	54.67	43.68	83.91	4.2	18.16	33.5	112.17	663.22
	precipitation_amount:	mm	47.9	43.8	17.5	28.2	14.2	95.4	61.7	1.7	14.3	15.8	64.1	7.4	412
FI0033R	lead	µg Pb /m2	30.4	37.26	32.78	33.65	11.03	15.24	39.07	12.4	11.83	8.13	8.71	17.43	257.92
	precipitation_amount:	mm	30.1	27	13.6	7.9	29.8	31.1	88.8	25.3	33.8	6.3	8.8	8.3	310.8
LT0015R	lead	µg Pb /m2	76.08	131.79	163.34	163.8	160.94	167.02	123.85	126.43	377.82	682.07	273.27	270.95	2573.32
	precipitation_amount:	mm	17.3	56.77	46.23	31.5	54.64	96.94	45.6	3.37	105.36	152.56	72.96	67.17	750.4
LV0010R	lead	µg Pb /m2	279.8	2	169.26	3.53	43.18	30.8	6.09	21.18	71.76	50.3	675.91		540.5
	precipitation_amount:	mm	0	82.3	40.3	12.6	25.4	110	0	0	76.1	105.9	59.8	28.1	540.5
LV0016R	lead	µg Pb /m2	196.0	4	85.69	8.84	30.84	58.5	3.96	3.21	8.82	33.88	62.59	492.37	
	precipitation_amount:	mm	0	75.4	45.1	23.9	44.7	90	0	4.4	45.8	73.5	60.5	34.2	497.5
PL0004R	lead	µg Pb /m2	37.09	45.41	40.74	135.42	117.22	102.79	43.79	17.44	34.84	65.52	43.33	30.04	713.64
	precipitation_amount:	mm	48.8	52.8	36.7	37	122.1	99.8	53.4	19.6	50.5	168	31.4	25.9	746

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
SE0005R	Bredkälen	lead µg Pb/m <sup>2</sup> precipitation_amount mm	13.83	11.52	32.43	39.1	27.85	16.25	14.59	18.18	12.83	4.43	10.03	18.53	219.58
			66.17	57.6	37.54	22.83	29.89	67.71	50.31	31.89	24.06	9.23	22.29	20.49	440
SE0001R	Arup	lead µg Pb/m <sup>2</sup> precipitation_amount mm	381.6	4	107.12	181.17	37	199.12	8.55	43.2	29.58	9	119.7	287.7	177.08
			1.88	103	99	10	76	19	72	24.5	22.5	114	137	46.97	911.59

### Observed depositions of mercury in precipitation at HELCOM stations, 2002

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
DE0009R	Zingst	Mercury ng Hg/m <sup>2</sup> precipitation_amount mm	256.6	352.51	284.31	404.92	817.95	666.62	978.14	566.76	186.28	430.25	454	170.54	5568.9
			43.36	53.96	37.39	35.44	47.2	85.26	97.61	69.09	22.3	79.63	55.84	14.83	641.9
SE0005R	Bredkälen	Mercury ng Hg/m <sup>2</sup> precipitation_amount mm	93.31	60.84	80.92	177.6	174	747.84	371.01	286.77	226.8	98.43	69.6	22.23	2409.35
			30.1	16.9	23.8	7.4	11.6	98.4	44.7	36.3	31.5	19.3	12	1.9	333.9
SE0011R	Vavilil	Mercury ng Hg/m <sup>2</sup> precipitation_amount mm	692.0	644.46	365.4	688.55	851.16	1376.8	675.35	388.12	195.3	391.04	282.6	124.64	6675.39
			69.9	93.4	20.3	29.3	69.2	104.3	103.9	31.3	21	83.2	31.4	16.4	673.6
SE0014R	Rås	Mercury ng Hg/m <sup>2</sup> precipitation_amount mm	521.6	348.58	270	1635.33	535.3	1543.0	872.16	496.8	140.25	307.74	390.5	66.36	7127.8
			81.5	60.1	12	38.1	50.5	86.2	94.8	21.6	8.5	66.9	55	8.4	581.6

### Observed depositions of gamma-HCH at HELCOM stations, 2002

Code	Component	Units	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
DE0009R	Zingst	gamma_HCH ng γ-HCH/m <sup>2</sup> precipitation_amount mm	67.68	74.7	81.84	116.28	158.4	84.26	84.26	67.36	24.2	116.4	28.6	11.52	972.42
			37.6	49.8	37.2	30.6	4.8	90.9	76.6	84.2	22	77.6	57.2	14.4	636.1
SE0012R	Aspvreten	gamma_HCH ng γ-HCH/m <sup>2</sup>	10.85	4.76	5.27	57	58.9	42.3	43.71	0.62	9.3	9.61	0.3	0.31	242.9
SE0014R	Rås	gamma_HCH ng γ-HCH/m <sup>2</sup>	0.31	0.028	0.279	0.51	0.527	10.65	11.005	0.93	4.47	4.619	4.2	4.34	41.9