

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	125	14	0.851	0.292	0.866	0.563
Deposition to the country						
Total deposition to the country, t	124.73	28.90	1.88	0.80	0.96	0.71
- Anthropogenic deposition from national sources, t	16.92	2.08	0.13	0.05	0.07	0.05
- Anthropogenic deposition from other countries, t	47.99	2.01	0.38	0.07	0.14	0.03
- Intercontinental transport (non-EMEP sources), t	4.81	2.87	0.13	0.09	0.73	0.62
- Secondary sources (wind re-suspension), t	55.01	21.90	1.23	0.58	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	39.55	3.85	0.25	0.08	0.07	0.04
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.78	0.14	10.75	2.54	2.62	1.28
- Black Sea	0.14	0.01	0.84	0.19	0.29	0.14
- Caspian Sea	0.03	0.001	0.23	0.03	0.13	0.05
- Mediterranean Sea	0.70	0.11	4.41	2.00	1.10	0.87
- North Sea	15.56	1.29	96.68	24.60	23.56	11.80
Mean annual air concentrations, ng/m <sup>3</sup>	9.38	1.76	0.11	0.04	1.59	1.44

## POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions	t		g TEQ <sup>a</sup>		kg	
	15	8.2	66	30	41	1.7
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	5344.3	2813.7	1081.4	421.9	1356.3	105.6
- Anthropogenic deposition from national sources	4163.6	2266.4	175.9	79.2	6.0	0.3
- Anthropogenic deposition from other countries	461.5	165.8	103.8	36.6	17.8	0.3
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	352.4	153.3	752.9	62.6
- Secondary sources (re-volatilization) <sup>d</sup>	719.2	381.5	450.8	152.7	579.6	42.4
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2039.5	1005.6	73.2	29.7	9.3	0.3
Deposition to the regional seas						
- Baltic Sea	57.80	27.03	1.16	0.39	1.2E-01	4.7E-03
- Black Sea	4.48	2.08	0.19	0.08	3.0E-02	9.7E-04
- Caspian Sea	0.91	0.27	0.06	0.02	1.2E-02	3.9E-04
- Mediterranean Sea	9.77	8.52	0.88	0.52	1.4E-01	6.5E-03
- North Sea	317.91	126.64	4.92	1.90	4.4E-01	1.6E-02
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.29	0.17	8.40	4.09	203.6	15.44

<sup>a</sup> Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

<sup>b</sup> Expert estimate

<sup>c</sup> Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

<sup>d</sup> Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year