

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	4415	254	10	6.5	12	8.1
Deposition to the country						
Total deposition to the country, t	2543.09	457.00	16.40	8.77	5.09	4.88
- Anthropogenic deposition from national sources, t	1434.46	96.30	3.37	2.41	1.41	1.06
- Anthropogenic deposition from other countries, t	398.94	25.20	2.93	0.96	0.65	0.25
- Intercontinental transport (non-EMEP sources), t	41.19	31.80	0.58	0.82	2.89	3.41
- Secondary sources (wind re-suspension), t	668.51	304.00	9.52	4.57	0.14	0.15
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	1295.29	68.70	3.07	1.74	0.84	0.53
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	12.34	1.01	28.33	23.00	8.32	7.27
- Black Sea	28.31	1.01	65.09	25.30	14.40	6.61
- Caspian Sea	2.33	0.13	5.34	2.97	2.61	1.51
- Mediterranean Sea	973.85	52.70	2128.02	1400.00	554.51	404.00
- North Sea	18.00	1.17	39.57	26.80	9.40	9.53
Mean annual air concentrations, ng/m <sup>3</sup>	57.83	5.86	0.26	0.09	1.70	1.54

## 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	
	23 <sup>b</sup>	24 <sup>b</sup>	461	272	43	22
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	7502.2	7802.4	6994.0	2234.6	8425.3	682.5
- Anthropogenic deposition from national sources	5119.0	5843.6	989.9	654.1	14.8	6.0
- Anthropogenic deposition from other countries	1553.6	1108.9	485.3	128.4	47.2	4.6
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	564.9	243.3	3067.2	264.3
- Secondary sources (re-volatilization) <sup>d</sup>	829.6	849.9	4938.8	1208.8	5296.2	407.6
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1657.8	1666.2	526.7	257.1	5.0	2.7
Deposition to the regional seas						
- Baltic Sea	18.52	15.74	3.10	1.27	9.7E-03	7.1E-03
- Black Sea	12.03	9.16	3.45	2.22	2.9E-02	1.8E-02
- Caspian Sea	0.38	0.69	0.60	0.52	1.0E-02	5.3E-03
- Mediterranean Sea	1089.31	1217.57	273.84	139.94	1.8E+00	1.2E+00
- North Sea	10.81	8.08	2.22	1.90	1.1E-02	6.9E-03
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.22	0.20	29.50	13.13	189.9	15.26

<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