

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	151	3.9	0.621	0.433	1.1	0.229
Deposition to the country						
Total deposition to the country, t	267.56	44.90	5.59	1.62	1.01	0.63
- Anthropogenic deposition from national sources, t	38.17	0.96	0.13	0.11	0.07	0.02
- Anthropogenic deposition from other countries, t	117.49	13.90	2.25	0.52	0.31	0.10
- Intercontinental transport (non-EMEP sources), t	2.04	1.53	0.06	0.05	0.60	0.49
- Secondary sources (wind re-suspension), t	109.86	28.50	3.16	0.95	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	96.30	2.31	0.41	0.26	0.18	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	8.17	0.32	50.97	38.70	21.34	5.68
- Black Sea	1.19	0.02	3.96	2.33	1.29	0.23
- Caspian Sea	0.20	0.003	0.69	0.29	0.34	0.05
- Mediterranean Sea	0.71	0.02	2.59	1.61	1.00	0.22
- North Sea	0.61	0.07	2.80	7.69	1.05	0.88
Mean annual air concentrations, ng/m <sup>3</sup>	11.36	2.27	0.17	0.08	1.62	1.46

## 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	
	5.6	3.7	22	17	0.134	0.106
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	3338.9	2094.0	564.9	207.6	2205.7	173.2
- Anthropogenic deposition from national sources	1217.2	846.6	46.8	38.0	0.0	0.0
- Anthropogenic deposition from other countries	1873.2	1078.1	191.0	68.4	8.9	1.5
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	88.2	32.1	653.9	47.6
- Secondary sources (re-volatilization) <sup>d</sup>	248.5	169.3	237.8	69.1	1542.8	124.1
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1664.5	1066.3	52.7	38.8	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	119.54	88.96	2.70	2.93	1.3E-03	1.3E-03
- Black Sea	6.43	3.29	0.27	0.15	3.0E-04	2.0E-04
- Caspian Sea	1.21	0.87	0.06	0.04	7.7E-05	4.4E-05
- Mediterranean Sea	4.40	3.46	0.41	0.28	4.6E-04	3.8E-04
- North Sea	10.21	15.67	0.19	0.57	1.1E-04	1.8E-04
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.36	0.27	15.20	9.44	232.2	18.70

<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