

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	3878*	100	54*	2.8	36*	6.8
Deposition to the country						
Total deposition to the country, t	3018.79	497.00	63.00	17.30	14.40	6.97
- Anthropogenic deposition from national sources, t	1408.34	35.50	20.38	1.03	7.08	1.38
- Anthropogenic deposition from other countries, t	699.00	67.70	13.46	3.40	2.21	0.70
- Intercontinental transport (non-EMEP sources), t	29.30	29.50	0.59	0.77	4.91	4.68
- Secondary sources (wind re-suspension), t	882.15	364.00	28.57	12.10	0.20	0.21
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	1867.99	47.90	25.56	1.28	4.61	0.88
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	12.17	0.48	124.02	11.80	22.61	9.56
- Black Sea	273.51	6.27	4015.68	220.00	754.63	94.70
- Caspian Sea	30.91	0.81	473.02	21.40	75.07	14.30
- Mediterranean Sea	50.08	1.33	630.04	40.40	84.71	16.00
- North Sea	3.99	0.09	46.16	2.12	11.45	2.80
Mean annual air concentrations, ng/m <sup>3</sup>	32.64	3.88	0.58	0.14	1.78	1.48

\* expert estimates

## POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions <sup>b</sup>	t		g TEQ <sup>a</sup>		kg	
	74	86	1022	1043	655	655
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	20612.6	20784.0	9899.2	5925.6	18076.8	1618.0
- Anthropogenic deposition from national sources	11309.9	14115.6	2926.7	3039.2	200.8	198.4
- Anthropogenic deposition from other countries	7348.0	4330.7	1614.0	401.2	42.2	2.1
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	597.2	251.0	4718.2	365.6
- Secondary sources (re-volatilization) <sup>d</sup>	1954.7	2337.7	4745.2	2234.4	13115.6	1051.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	10419.1	12622.6	1431.1	1537.7	146.3	146.7
Deposition to the regional seas						
- Baltic Sea	98.48	67.18	10.87	12.46	3.2E-01	6.0E-01
- Black Sea	4811.46	5626.43	145.80	121.51	8.8E+00	7.7E+00
- Caspian Sea	82.81	103.38	6.78	5.84	7.9E-01	6.3E-01
- Mediterranean Sea	146.55	125.44	39.65	30.70	3.6E+00	4.1E+00
- North Sea	24.05	28.14	2.10	7.09	1.6E-01	2.3E-01
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.32	0.33	42.80	31.36	235.9	21.59

<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