

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	187	4.9	1.2	0.474	1.4	0.388
Deposition to the country						
Total deposition to the country, t	454.79	80.50	6.37	2.60	5.36	4.18
- Anthropogenic deposition from national sources, t	66.82	1.53	0.36	0.15	0.12	0.03
- Anthropogenic deposition from other countries, t	219.32	11.90	2.23	0.54	0.64	0.14
- Intercontinental transport (non-EMEP sources), t	13.23	12.60	0.40	0.41	4.51	3.91
- Secondary sources (wind re-suspension), t	155.42	54.50	3.39	1.51	0.10	0.10
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	60.54	1.22	0.32	0.11	0.10	0.02
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	6.65	0.12	30.97	10.70	7.88	2.16
- Black Sea	0.35	0.01	1.96	0.62	0.52	0.13
- Caspian Sea	0.10	0.001	0.58	0.11	0.25	0.05
- Mediterranean Sea	0.42	0.01	2.49	0.99	0.75	0.23
- North Sea	13.32	0.51	120.53	50.50	18.07	9.65
Mean annual air concentrations, ng/m <sup>3</sup>	1.81	0.20	0.02	0.01	1.49	1.38

## 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	
	22 <sup>b</sup>	7.2 <sup>b</sup>	120	21	125	1.3
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	11762.8	3378.1	2867.5	693.1	9216.5	744.5
- Anthropogenic deposition from national sources	6737.3	2144.6	285.1	47.5	25.2	0.3
- Anthropogenic deposition from other countries	3915.8	909.4	581.0	72.8	44.1	1.6
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	1049.1	374.7	4197.2	332.0
- Secondary sources (re-volatilization) <sup>d</sup>	1109.7	324.0	952.3	198.2	4950.1	410.6
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2853.6	1044.3	128.0	26.3	31.7	0.3
Deposition to the regional seas						
- Baltic Sea	190.84	64.98	4.46	1.17	8.3E-01	8.9E-03
- Black Sea	5.82	2.95	0.40	0.13	1.3E-01	1.0E-03
- Caspian Sea	1.94	0.58	0.16	0.02	4.8E-02	4.2E-04
- Mediterranean Sea	8.37	3.01	1.28	0.30	3.1E-01	3.5E-03
- North Sea	1117.57	279.93	18.13	6.98	1.9E+00	3.0E-02
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.11	0.04	5.20	1.31	184.4	15.12

<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