

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	794	68*	2.1	2.9*	1.1	0.924*
Deposition to the country						
Total deposition to the country, t	944.81	164.00	16.08	5.76	3.25	2.04
- Anthropogenic deposition from national sources, t	297.10	23.80	0.71	1.03	0.09	0.08
- Anthropogenic deposition from other countries, t	378.73	29.80	7.19	1.21	1.07	0.28
- Intercontinental transport (non-EMEP sources), t	6.46	7.13	0.16	0.20	2.02	1.62
- Secondary sources (wind re-suspension), t	262.52	103.00	8.02	3.31	0.08	0.07
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	438.28	37.70	1.26	1.58	0.14	0.11
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	12.18	1.51	23.56	59.10	2.61	3.17
- Black Sea	10.30	0.94	28.18	36.20	1.98	1.70
- Caspian Sea	1.95	0.10	6.01	3.88	0.54	0.31
- Mediterranean Sea	4.63	0.39	11.09	15.00	1.00	1.02
- North Sea	1.50	0.37	3.18	14.20	0.43	1.10
Mean annual air concentrations, ng/m <sup>3</sup>	14.75	2.44	0.17	0.08	1.60	1.44

\* expert estimates

## 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	
	10 <sup>b</sup>	11	22	33	0.482	0.932
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	7759.0	6293.6	1495.6	668.3	7543.8	579.1
- Anthropogenic deposition from national sources	2678.3	2984.5	58.6	82.8	0.1	0.3
- Anthropogenic deposition from other countries	4418.8	2748.6	503.6	277.1	24.9	10.0
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	204.4	80.0	1773.1	129.3
- Secondary sources (re-volatilization) <sup>d</sup>	661.9	560.6	731.7	228.4	5745.7	439.5
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2657.1	2765.9	43.0	68.6	0.2	0.3
Deposition to the regional seas						
- Baltic Sea	66.83	72.99	0.58	1.27	9.7E-04	2.7E-03
- Black Sea	18.05	17.03	0.43	0.48	1.6E-03	2.7E-03
- Caspian Sea	3.57	3.33	0.12	0.10	3.7E-04	4.8E-04
- Mediterranean Sea	8.81	9.96	0.42	0.58	1.7E-03	3.7E-03
- North Sea	9.51	23.61	0.07	0.53	2.3E-04	7.3E-04
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.30	0.26	15.00	10.33	274.8	22.10

<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