

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	645*	64*	1.2*	1.2*	2.2*	2.2*
Deposition to the country						
Total deposition to the country, t	515.80	180.00	2.95	6.28	1.83	2.17
- Anthropogenic deposition from national sources, t	161.50	14.80	0.30	0.31	0.07	0.07
- Anthropogenic deposition from other countries, t	204.61	14.40	0.39	0.41	0.12	0.11
- Intercontinental transport (non-EMEP sources), t	74.32	93.50	1.22	4.51	1.61	1.95
- Secondary sources (wind re-suspension), t	75.37	57.20	1.05	1.05	0.04	0.04
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	267.61	22.00	0.45	0.44	0.08	0.08
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.002	0.002	0.04	0.003	0.02
- Black Sea	0.03	0.01	0.04	0.12	0.01	0.03
- Caspian Sea	0.79	0.09	0.91	1.81	0.15	0.23
- Mediterranean Sea	0.005	0.001	0.01	0.02	0.01	0.02
- North Sea	0.001	0.00	0.001	0.005	0.004	0.02
Mean annual air concentrations, ng/m <sup>3</sup>	21.39	5.66	0.06	0.18	1.11	1.27

\* 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	
	2.8	2.8	50	50	0.844	0.844
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	577.8	542.2	1764.6	599.2	2220.0	179.8
- Anthropogenic deposition from national sources	490.7	448.8	99.0	108.6	0.1	0.2
- Anthropogenic deposition from other countries	45.6	54.3	53.4	43.6	1.2	0.3
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	260.9	117.6	1213.8	104.4
- Secondary sources (re-volatilization) <sup>d</sup>	41.5	39.0	1350.4	329.5	1004.9	74.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	312.3	305.4	72.1	60.5	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	0.00	0.02	0.00	0.01	1.8E-06	8.7E-06
- Black Sea	0.02	0.02	0.01	0.01	2.4E-06	1.2E-05
- Caspian Sea	0.13	0.22	0.06	0.07	2.1E-05	8.6E-05
- Mediterranean Sea	0.00	0.00	0.01	0.01	3.6E-06	1.1E-05
- North Sea	0.00	0.02	0.00	0.01	1.3E-06	4.4E-06
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.05	0.05	7.29	5.64	117.1	9.82

<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