

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	0.666*	7.8	0.478*	0.020	0.493*	0.013
Deposition to the country						
Total deposition to the country, kg	587.26	255	11.46	4.07	3.14	1.74
- Anthropogenic deposition from national sources, kg	3.90	42.00	3.01	0.12	1.30	0.03
- Anthropogenic deposition from other countries, kg	235.08	12.20	1.33	0.41	0.217	0.11
- Intercontinental transport (non-EMEP sources), kg	50.79	26.40	0.642	0.55	1.59	1.55
- Secondary sources (wind re-suspension), kg	297.49	174.00	6.47	2.98	0.036	0.05
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), κr	109.66	1360.00	76.27	3.48	11.16	0.35
Deposition to the regional seas (Pb - kg, Cd, Hg – g):						
- Baltic Sea	0.298	6.56	199.40	15.60	48.27	2.02
- Black Sea	3.72	45.40	2513.86	116	325.97	9.37
- Caspian Sea	0.471	3.71	314.65	9.26	71.96	1.41
- Mediterranean Sea	281.70	3460	212402.00	9260	38527.20	1120
- North Sea	0.603	6.80	407.31	15.80	79.68	2.22
Mean annual air concentrations, ng/m <sup>3</sup>	13.95	4.99	0.28	0.06	1.71	1.45

\* 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	
	0.014 <sup>b</sup>	0.020	8.6 <sup>b</sup>	12	5.2E-04 <sup>b</sup>	5.4E-0.4
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	3.67E-01	3.27E-01	2.21E+00	1.36E+00	1.23E+00	1.05E-01
- Anthropogenic deposition from national sources	6.22E-02	8.63E-02	6.78E-01	8.25E-01	1.73E-06	1.70E-06
- Anthropogenic deposition from other countries	2.93E-01	2.31E-01	4.36E-01	1.33E-01	6.08E-03	9.25E-04
- Intercontinental transport (global sources) <sup>c</sup>	1.66E-07	9.78E-08	3.40E-01	1.55E-01	7.37E-01	6.41E-02
- Secondary sources (re-volatilization) <sup>d</sup>	1.22E-02	9.88E-03	7.53E-01	2.42E-01	4.86E-01	3.97E-02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	3.89E-01	7.23E-01	7.16E+00	1.16E+01	4.07E-05	3.85E-05
Deposition to the regional seas						
- Baltic Sea	1.45E-03	1.52E-03	2.70E-02	3.67E-02	3.86E-08	7.97E-08
- Black Sea	5.00E-03	9.79E-03	7.48E-02	1.40E-01	3.07E-07	3.25E-07
- Caspian Sea	1.48E-04	2.48E-04	1.54E-02	3.05E-02	9.66E-08	1.17E-07
- Mediterranean Sea	8.97E-01	1.43E+00	7.91E+00	1.05E+01	4.78E-05	4.54E-05
- North Sea	6.40E-04	1.02E-03	1.79E-02	4.76E-02	5.23E-08	7.01E-08
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.0	0.0	0.03	0.02	0.19	0.02

<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