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ECONOMIC COMMISSION FOR EUROPE
EXECUTIVE BODY FOR THE CONVENTION ON
LONG-RANGE TRANSBOUNDARY AIR POLLUTION

Steering Body to the Cooperative Programme for Monitoring and Evaluation
of the Long-range Transmission of Air Pollutants in Europe (EMEP)
(Twenty-sixth session, Geneva, 2-4 September 2002)
Item 5 (f) of the provisional agenda

PRESENT STATE OF EMISSION DATA

Note by the Meteorological Synthesizing Centre-West
prepared in consultation with the secretariat

Corrigendum**I. INTRODUCTION**

1. This corrigendum contains late submissions of non-gridded data including updates of data from previous years which were not included in the original document (EB.AIR/GE.1/2002/8), of: anthropogenic emissions of SO₂, NO_x, NH₃, NMVOC, CO, particulate matter (PM₁₀), heavy metals and selected persistent organic pollutants for 1980-2000 and projections for 2010 and 2020 from the following Parties: Finland, Germany, Greece, Italy, Netherlands, Portugal and the European Community. Due to technical difficulties, submissions from Belgium and the Ukraine were not reflected in the original document (EB.AIR/GE.1/2002/8) and are included below. Late submissions of gridded data were received from Austria, Spain and the United Kingdom. Data reflected in the original document is available through <http://webdab.emep.int/>, which is updated once a year in June.

Documents prepared under the auspices or at the request of the Executive Body for the Convention on Long-range Transboundary Air Pollution for GENERAL circulation should be considered provisional unless APPROVED by the Executive Body.

II. INFORMATION ON INDIVIDUAL SUBMISSIONS

2. A submission from **Belgium** with updates and final emission data on SO_x, NO_x, NH₃, NMVOC, CO, POPs and heavy metals for 1990-1999 was received on 8 February 2002 and a later submission on 26 February 2002 including preliminary data for 2000. An estimated figure for the base year (1988) for NMVOCs was received on 8 August 2002.
3. A correction from **Finland** to the national total for NH₃ for 2000 was received on 14 April 2002, and a revised NMVOC emission time series for 1988-2000 was received on 27 August 2002.
4. A submission from **Germany** of final emission data for 2000 on SO_x, NO_x, NH₃, NMVOC, CO and TSP was received on 1 August 2002.
5. A submission from **Greece** of final emission data for 2000 on SO₂ and NO_x was received on 3 April 2002, further updated on 22 May 2002 by revisions to NO_x figures from 1987-2000.
6. A submission from **Italy** of final emission data for 2000 on SO_x, NO_x, NH₃, CO, and revisions to NMVOC data from 1990-2000 was received on 10 September 2002.
7. A submission from the **Netherlands** of final emission data for 2000 on SO_x, NO_x, NH₃, CO, NMVOCs, TSP, PM₁₀, HMs and POPs was received on 6 September 2002.
8. A submission from **Portugal** of final emission data for 2000 and updates from 1990-1999 on SO_x, NO_x, NH₃, NMVOC and CO was received on 2 May 2002.
9. A submission from **Ukraine** of gridded data that also included totals for Main Pollutants, PM, HMs and POPS (not included in the original document) were received on 26 February 2002.
10. A submission from the **European Community** of preliminary emission data for 1990-2000 for SO_x, NO_x, CO, NMVOC, CO₂ and CH₄, as well as updates for HMs, POPs and NH₃ was received on 9 July 2002.

Table 1. Anthropogenic emissions of sulphur in the ECE region (Gg SO₂ per year)

In table 1 replace or add, as appropriate, the following data:

Party/Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Portugal											339	326	387
EC											16363	14825	13652

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010
Belgium ^{1/}								181	
Germany			1939	1340	1087	874	804	795	523
Greece								483	
Italy								759	
Netherlands								92	
Portugal	346	315	363	316	330	365	381	344	
Ukraine								1002	
EC	12429	11277	10198	8885	8071	7665	6932	5750	

Notes:

1/ Provisional data

Table 2. Anthropogenic emissions of nitrogen oxides in the ECE region (Gg NO₂ per year)

In table 2, replace or add, as appropriate, the following data:

Party/Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Belgium													
Germany								3349	3230	3011	2729	2514	2323
Greece								285	N.A.	N.A.	290	298	297
Portugal											282	297	318
EC ^{1/}								13446	13464	13563	13389	13281	12977

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Belgium ^{2/}								304		
Germany	2208	2055	1984	1897	1800	1724	1676	1600	1113	
Greece	292	299	296	306	310	334	326	320		
Italy								1373		
Netherlands								413		
Portugal	312	315	329	323						
Ukraine								354		
EC			11567	11360	10896	10556	10215	9497		

Notes:

1 / The data on NO_x emissions 1987-1989 may not be entirely consistent with the time series 1990-2000 due to the lack of consistent data from member states.

2 / Provisional data.

Table 3: Anthropogenic emissions of ammonia in the ECE region (Gg NH₃ per year)

In table 3, replace or add, as appropriate, the following data:

Party/Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Germany											736	653	636
Portugal											111	107	112
EC											3780		

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Belgium ^{1/}								86		
Finland								236		
Germany	616	594	603	607	599	605	605	598		
Italy								438		
Netherlands								152		
Portugal	106	99	107	104	103	105	111	110		
Ukraine								11		
EC			3549	3527	3587	3582				

Notes:

1/ Provisional data

Table 4: Anthropogenic emissions of non-methane volatile organic compounds in the ECE region (Gg NMVOC per year)

In table 4, replace or add, as appropriate, the following data:

Party/Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Finland									225	227	224	210	204
Italy											2220	2268	2312
Portugal											381	410	437
EC											16231	15687	15187

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Belgium								287		
Finland	196	194	188	182	175	171	166	161		
Germany			2020	1892	1823	1739	1675	1600	1192	
Italy	2238	2177	2154	2107	2041	1935	1845	1681		
Netherlands								281		
Portugal	445	444	463	439	500	488	494	499		
Ukraine								261		
EC	14540	14376	13043	13525	13336	12511	12103	11562		

Table 5: Anthropogenic emission of carbon monoxide in the ECE region (Gg CO per year)

In table 5, replace or add, as appropriate, the following data:

Party/Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Italy											2220	2268	2312
Portugal											1113	1188	1283
EC											50205	48326	46474

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Germany			6532	6109	5955	5425	5143	4768		
Italy								5237		
Netherlands								679		
Portugal	1268	1233	1201	1178	1144	1106	1077	1048		
Ukraine								2776		
EC	44154	42041	40490	39029	37423	35673	33848	30817		

Table 6: Anthropogenic emissions of total suspended particulates in the ECE region (Mg TSP per year)

In table 6, replace or add, as appropriate, the following data:

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Germany								255		
Netherlands								43		

Table 7: Anthropogenic emissions of particulate matter in the ECE region (Mg PM10 per year)

In table 7, replace or add, as appropriate, the following data:

Party/Year	1993	1994	1995	1996	1997	1998	1999	2000	2010	2020
Netherlands								36		

Table 9: Anthropogenic emissions of persistent organic pollutants in the ECE region (kg per year, except for dioxins and furans which are g I-Teq per year; PAHs are Mg per year)

In table 9, replace or add, as appropriate, the following data:

Party	Year	ANNEX I							ANNEX II			ANNEX III			OTHER					
		Aldrin	Chlor-dane	Chlor-decone	Dieldrin	Endrin	Heptachlor	Hexabromobiphenyl	Mirex	Toxaphene	HCH	DDT	PCBs	Dioxins and furans	PAHs	HCB	PCP	SCCP	PER	TRI
Netherlands	2000												3.06E-05	636.33		2400				

Table 10: Anthropogenic emissions of heavy metals in the ECE region (Mg per year)

In table 10, replace or add, as appropriate, the following data:

HEAVY METALS	Party	Year	PRIORITY METALS			OTHER METALS						
			Lead	Cadmium	Mercury	Arsenic	Chromium	Copper	Nickel	Selenium	Zinc	
	Greece	1996	470.0	3.00	13.00	4.00	10.00	14.00	101.0		.20	52.00
	Netherlands	2000	29.07	0.91	0.59	1.03	4.68	19.77	29.99		0.44	94.90
	Ukraine	2000	420	7	9	115	196	145	81		25	732