

**Economic and Social
Council**Distr.
GENERALCEP/AC.10/2002/19
24 June 2001

ORIGINAL: ENGLISH

ECONOMIC COMMISSION FOR EUROPE**COMMITTEE ON ENVIRONMENTAL POLICY****Ad Hoc Working Group on Environmental Monitoring**

(Third session, 29-30 August 2002)

(Item 6 of the provisional agenda)

**INVENTORY OF MAJOR INTERNATIONAL ENVIRONMENTAL DATABASES
IN THE UNECE REGION**Note by the secretariat

1. The Working Group is mandated, among other things, to promote the coordination of efforts and strengthen international initiatives within the region on environmental monitoring and related areas, in particular, by improving data transfer and use. It therefore decided, at its second session, to compile an inventory of major international environmental databases that are based on data collection from a substantive number of UNECE countries. This inventory should facilitate the consideration by the Working Group, at its third session, of possible measures to improve country coverage in existing environmental databases and to make data contained therein more easily accessible (CEP/AC.10/2002/2, para. 31).

2. In pursuance of this decision, the secretariat sent a questionnaire to a number of international organizations and convention secretariats (see CEP/AC.10/2002/10, para. 7). The response was encouraging and information submitted is presented in annexes I (international environmental databases in the UNECE region) and II (UNECE country participation in international environmental databases) to the present note.

Some general remarks

3. The present inventory lists international environmental databases that are based on data collection from a substantive number of UNECE countries. It covers twenty-five databases, six of which are global, eight regional and eleven subregional in country coverage. These databases contain data on major environment-related areas, namely: climate change, stratospheric ozone layer depletion, air pollution and its effects, inland waters, marine environment, waste, biodiversity, protected areas, land use and degradation, forests, noise, and environment expenditures and revenues.

4. Annex I provides the names of organizations and conventions that collect data, their Internet addresses, the names of databases, information on the type of data collected and time series, intergovernmental holding bodies responsible for data collection, contact details (e-mail addresses of responsible officers) and data accessibility.

5. A number of intergovernmental bodies have collected data for ten years or more using agreed guidelines. Data are collected by relevant secretariats or specialized institutes in lead or coordinating countries. Several databases are easily accessible via the Internet. Data in some databases can be accessed as publications only. Data from some databases can be accessed upon written request. Some holding bodies make maps and graphs easily accessible as publications or via the Internet; access to input data is restricted to participating institutions only, however.

6. As may be concluded from annex II, country coverage in databases is generally dependent on country membership in the international organization or convention. Nevertheless, some holding bodies collect data outside the institutional membership, drawing on data collected by partner organizations. Overall, countries in Southern Europe, Caucasus and Central Asia are the least represented in the databases covered by the inventory. Furthermore, a number of UNECE countries, although members of relevant international organizations and conventions, do not submit data at all or their submissions are either incomplete or does not cover the agreed time intervals. Specific efforts might be required under relevant international organizations and conventions as well as possibly by the Working Group to cover existing gaps.

7. The Working Group may wish to discuss the present inventory and agree on possible recommendations to UNECE countries and secretariats of governing bodies of international organizations and conventions collecting environmental data in the UNECE region.

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Annex I**INTERNATIONAL ENVIRONMENTAL DATABASES IN THE UNECE REGION**

Organization/ Convention	UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)	VIENNA CONVENTION FOR THE PROTECTION OF THE OZONE LAYER AND THE MONTREAL PROTOCOL ON SUBSTANCES THAT DEplete THE OZONE LAYER	BASEL CONVENTION ON THE CONTROL OF TRANBOUNDARY MOVEMENTS OF HAZARDOUS WASTES AND THEIR DISPOSAL
<u>Internet address</u>	http://unfccc.int	www.unep.org/ozone or www.unep.ch/ozone	www.basel.int
<u>Topic</u>	Climate change	Ozone layer	Hazardous and other waste
Type of data and time series	Emissions of greenhouse gases (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆) and emissions of CO, NO _x , NMVOCs, SO ₂ . Data submitted by Annex I Parties (developed countries) and non-Annex I Parties (developing countries). Annex I data available for most of 1990-2000. Non-Annex I Parties data (mostly greenhouse gases) available for some countries for intermittent years between 1990-1998. However, for most countries data are available only for 1990 or 1994.	Production and consumption of ozone-depleting substances (CFCs, halons, HCFCs, methyl chloroform, carbon tetrachloride, methyl bromide). Data available since 1986 for CFCs and halons, 1991 for methyl bromide and 1989 for the rest. Data submitted annually by the Parties to the Montreal Protocol.	Yearly data on generation, import, export and transition of hazardous and other wastes for 1993-1999. The database is expected to become fully functional towards the end of 2002.
Holding body	UNFCCC secretariat: Methods, Inventories & Science Programme.	Ozone secretariat.	Secretariat of the Basel Convention
Contact details	jgrabert@unfccc.int	ozoneinfo@unep.org	nalini.basavaraj@unep.ch
Data accessibility	Reported emissions data are made available on http://unfccc.int/resource/index.html . Annex I emissions data are published annually (latest document FCCC/SBI/2001/13).	As a publication (periodically every two years) and updates on request via e-mail to ozoneinfo@unep.org .	Available for the years 1993 to 1996 as publication only and for the years 1997-1999 both in electronic form www.basel.int/pub/nationreport.html and hard copies.

Organization/ Convention <u>Internet address</u>	CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES OF WILD FAUNA AND FLORA (CITES) www.cites.org	RAMSAR CONVENTION ON WETLANDS OF INTERNATIONAL IMPORTANCE ESPECIALLY AS WATERFOWL HABITAT www.ramsar.org	UNITED NATIONS STATISTICS DIVISION (UNSD) http://www.un.org/depts/unsd
<u>Topic</u>	Species	Wetlands	Environment statistics
Type of data and time series	<p>International wildlife trade data available since 1980 based on Parties' annual reports under Article VIII(7)(a) of the Convention. Some data on legislative, regulatory and administrative measures taken to enforce the Convention based on Parties' biennial reports under Article VIII(7)(b) of the Convention.</p>	<p>Database on Wetlands of International Importance, covering site-specific information according to the Information Sheet on Ramsar Wetlands including geographical information, as well as information on wetland type, criteria of international importance, site map, physical features, hydrological values, ecological features, noteworthy flora and fauna, social and cultural values, land use and tenure, factors affecting the site's ecological character, conservation measures taken, research and education facilities, tourism activities, jurisdiction, management authority and bibliographical references.</p>	<p>Environment statistics on air emissions, air quality, water resources, water pollution and quality of selected rivers, lakes and coastal areas, waste generation and treatment, land use and land degradation mainly for 1990-2000.</p>
Holding body	<p>Under contract with the Secretariat, trade data are held and monitored by the United Nations Environment Programme -World Conservation Monitoring Centre (UNEP-WCMC), Cambridge, United Kingdom (http://www.unep-wcmc.org).</p>	<p>Wetlands International on behalf of the Ramsar Bureau.</p>	<p>UNSD</p>
Contact details	<p>John.Caldwell@unep-wcmc.org</p>	<p>Frazier@wetlands.org</p>	<p>Puolamaa@un.org</p>
Data accessibility	<p>Via written request to UNEP-WCMC or the Secretariat; no internet access at the moment.</p>	<p>Via Internet www.wetlands.org</p>	<p>No Internet access planned, data will be available via special requests in the end of 2002.</p>

Organization/ Convention	UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE (UNECE) AND FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED NATIONS (FAO)	UNECE/ CONVENTION ON LONG RANGE TRANSBOUNDARY AIR POLLUTION (CLRTAP)	UNECE/CLRTAP
<u>Internet address</u>	http://www.unece.org and http://www.fao.org	http://www.unece.org/env/lrtap/	http://www.unece.org/env/lrtap/
<u>Topic</u>	Forests	Air pollution	Air pollution effects - Crops
Type of data and time series	UNECE/FAO temperate and boreal forest resources assessment (TBFRA) includes information on area of forest and other wooded land (OWL): situation and changes, ownership and management status of forest and OWL, wood supply and carbon sequestration: situation and changes, biological diversity and environmental protection, forest conditions and damage to forest and OWL, protective and socio-economic functions.	Emissions of sulphur oxides (SO ₂), nitrogen oxides (NO _x), ammonia (NH ₃), non-methane volatile organic compounds (NMVOCs), methane (CH ₄), carbon monoxide (CO), carbon dioxide (CO ₂), heavy metals (priority metals: cadmium (Cd), mercury (Hg), lead (Pb)) and selected persistent organic pollutants (POPs). Most data are for 1980-1999 and projections for 2010.	Since 1990, data on ozone critical levels and ozone injury of agricultural crops (updated regularly) and data on heavy metal deposition to mosses (periodic surveys – every five years).
Holding body	Joint UNECE/FAO Working Party and Forest Economics and Statistics; UNECE Trade Development and Timber Division, Timber Branch www.unece.org/trade/timber/fra/welcome.htm	Cooperative Programme for Monitoring and Evaluation of the Long-Range Transmission of Air pollutants in Europe (EMEP), Meteorological Synthesizing Centre - West.	Working Group on Effects (http://www.unece.org/env/wge). Task Force on the International Cooperative Programme on Effects of Air Pollution on Natural Vegetation and Crops. Programme Coordinating Centre (PCC): Centre for Ecology and Hydrology, Bangor, United Kingdom.
Contact details	alexander.korotkov@unece.org	vigdis.vestreng@met.no	gmi@ceh.ac.uk
Data accessibility	Via Internet http://www.unece.org/trade/timber/fra/welcome.htm The main TBFRA-2000 Report "Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand" is available in hard paper copy and on CD-Rom.	http://www.emep.int	Summaries and the 1999/2000 report are available on http://icpvegetation.ceh.ac.uk . Other reports upon request from the PCC.

Organization/ Convention	UNECE/CLRTAP	UNECE/CLRTAP	UNECE/CLRTAP
<u>Internet address</u>	http://www.unece.org/env/lrtap/	http://www.unece.org/env/lrtap/	http://www.unece.org/env/lrtap/
<u>Topic</u>	Air pollution effects - Forests	Air pollution effects - Materials	Air pollution effects - Water
Type of data and time series	Since 1986, data on crown condition, foliar condition, growth of trees (submitted annually) and on soil condition, deposition, meteorology, soil solution, ground vegetation (updated regularly).	Since 1986, data reported regularly on effect of sulphur pollutants in combination with NO _x and other pollutants as well as climatic parameters on the atmospheric corrosion (corrosion rates) of important materials (metallic materials, stone materials, paint coatings, electric contact materials, glass materials and polymeric materials).	Since 1986, data on chemistry (including pH, conductivity, alkalinity, nitrate, sulphate, Ca, Cl, Mg, Na, K, Si, Al, dissolved organic carbon and total organic carbon) and biology (invertebrates) of surface waters (reported annually). Preliminary data on Pb, Cd, Zn, Cu and Ni.
Holding body	Working Group on Effects (http://www.unece.org/env/wge). Task Force on the International Cooperative Programme (TF ICP) on Assessment and Monitoring of Air Pollution Effects on Forests. PCC: Federal Ministry for Consumer Protection, Food and Agriculture, Bonn, Germany.	Working Group on Effects (http://www.unece.org/env/wge). TF ICP on Effects of Air Pollution on Materials, Including Historic and Cultural Monuments. PCC: Swedish Corrosion Institute, Stockholm (http://www.corr-institute.se/icp-materials).	Working Group on Effects (http://www.unece.org/env/wge). TF ICP on Assessment and Monitoring of Acidification of Rivers and Lakes (http://www.niva.no/ICP-waters). PCC: Norwegian Institute for Water Research, Oslo.
Contact details	thomas.haussmann@bmvel.bund.de	vk@corr-institute.se	merete.ulstein@niva.no
Data accessibility	Reports are available on http://www.icp-forests.org	Reports upon request from the PCC.	Summaries are available on http://www.niva.no/ICP-waters . Publications upon request from the PCC.

Organization/ Convention	UNECE/CLRTAP	UNECE/CLRTAP	STATISTICAL OFFICE OF THE EUROPEAN COMMUNITIES (EUROSTAT)
<u>Internet address</u>	http://www.unece.org/env/lrtap/	http://www.unece.org/env/lrtap/	http://europa.eu.int/comm/eurostat/
<u>Topic</u>	Air pollution effects - Ecosystems	Air pollution effects - Mappings	Environment statistics
Type of data and time series	Detailed data on chemical, biological and physical state of selected ecosystems, including: air and precipitation chemistry, soil, soil water, groundwater and runoff water chemistry, hydrobiology of streams and lakes (data reported annually)	Data on critical loads of acidity (S and N) and nutrient nitrogen and their exceedances, on critical levels of ozone; preliminary data on critical loads of lead and cadmium. Data since 1990, updated regularly.	Data on waste generation and treatment, on water resources, abstraction, use and treatment, on environmental expenditure, on land use, on various topics related to agri-environment and transport-environment. Data available since 1980, most data are collected through the joint OECD/Eurostat questionnaire biannually
Holding body	Working Group on Effects (http://www.unece.org/env/wge). TF ICP on Integrated Monitoring of Air Pollution Effects on Ecosystems. PCC: Finnish Environment Institute, Helsinki http://www.vyh.fi/eng/intcoop/projects/icp_im/im.htm .	Working Group on Effects (http://www.unece.org/env/wge). TF ICP on Modelling and Mapping of Critical Levels and Loads and Air Pollution Effects, Risks and Trends http://www.oekodata.com/icpmapping/index.html . PCC: National Institute of Public Health and the Environment (RIVM), Bilthoven, Netherlands.	Eurostat Statistical Programme Committee, Working Group "Statistics on the Environment".
Contact details	martin.forsius@ymparisto.fi	jean-paul.hettelingh@rivm.nl	ulrich.wieland@cec.eu.int or antonio.consoli@cec.eu.int
Data accessibility	Charts are available on http://www.vyh.fi/eng/intcoop/projects/icp_im/im.htm . Publications upon request from the PCC.	Maps are available on http://www.rivm.nl/cce .	CD-Rom (Eurostat environment statistics yearbook). A publicly accessible Internet site will be available in mid-2002.

Organization/ Convention	EUROPEAN ENVIRONMENT AGENCY (EEA)	EEA	EEA
<u>Internet address</u>	www.eea.eu.int	www.eea.eu.int	www.eea.eu.int
<u>Topic</u>	Air quality	Air/Greenhouse gas emissions	Water quantity
Type of data and time series	AirBaise database includes data, submitted annually, on air concentrations of pollutants for various station types (urban hot spot, urban background, industrial, rural, etc).	Greenhouse gases (UNFCCC): Emissions of CO ₂ , CH ₄ , N ₂ O, HFC, PFC, SF ₆ , NO _x , CO, NMVOC, SO ₂ . Data available since 1990, submitted annually. Air pollutants (CLRTAP): emissions of SO ₂ , NO _x , NH ₃ , NMVOC, CO, particulate matter, Pb, Cd, Hg, other metals, POPs. Data available since 1980, submitted annually.	Mean annual precipitation dataset. Mean annual discharge for the internal inflow data set. Mean annual discharge for the actual outflow data set. Data collected for station selection procedure. Networks have been tested in 11 volunteer countries. Data sets available since 1990.
Holding body	European Topic Centre on Air Quality and Climate Change (ETC-ACC).	ETC-ACC	ETC Water (http://water.eionet.eu.int/). Centro de Estudios y Experimentación de Obras Públicas (CEDEX) (http://www.cedex.es)
Contact details	keimpe.wieringa@rivm.nl	andre.jol@eea.eu.int and ritterm@ubavie.gv.at	etcwater@cedex.es
Data accessibility	Via the Internet http://etc-acc.eionet.eu.int/databases	For EU countries: ETC-ACC database 2002 v1.0 see http://etc-acc.eionet.eu.int/ or http://dataservice.eea.eu.int/dataservice/ . For other countries: for greenhouse gases, see UNFCCC http://unfccc.int ; and for air pollutants, see UNECE/CLRTAP/EMEP http://www.emep.int	As publication only. Data included in a GIS for map generation.

Organization/ Convention	EEA	EEA	EEA
<u>Internet address</u>	www.eea.eu.int	www.eea.eu.int	www.eea.eu.int
<u>Topic</u>	Groundwater	Marine waters	Land changes
Type of data and time series	Groundwater quality data collected and stored within Eurowaternet Groundwater: groundwater body description, type of sampling sites and groundwater-body boundaries. Collected quality parameter: nitrate, nitrite, ammonium, dissolved oxygen and selected pesticides. Maximum length of time series since 1960. Annual update.	EEA MARINEBASE: harmful substances in marine biota, sediments and water; nutrients and oxygen in seawater. Data available since 1975 (sporadically).	The CORINE land cover database provides a pan-European inventory of biophysical land cover from 1990s. It is made available on a 250m by 250m grid database (and on a 100m by 100m grid database for the PHARE countries) which has been aggregated from the original vector data at 1:100 000. Update for year 2000-2001 is expected to be available end 2003. Subsequent updates every 10 years.
Holding body	ETC Water (http://water.eionet.eu.int/).	ETC Water (http://water.eionet.eu.int/). Norwegian Institute for Water Research (NIVA) (http://www.niva.no)	ETC on Terrestrial Environment (http://terrestrial.eionet.eu.int/)
Contact details	grath@ubavie.gv.at	brage.rygg@niva.no or birger.bjerkeng@niva.no	etcte@uab.es
Data accessibility	Indicator fact sheets and publications. WATERBASE will be available soon on http://water.eionet.eu.int/Databases	On request from NIVA.	As publication only. Data maps are available via EEA data service on the Internet: http://dataservice.eea.eu.int/dataservice/metadetails.asp?table=landcover

Organization/ Convention <u>Internet address</u>	EEA www.eea.eu.int	EEA www.eea.eu.int	EEA www.eea.eu.int
<u>Topic</u>	Species (plants/invertebrates)	Designated areas	Waste
Type of data and time series	European Nature Information System (EUNIS) Species includes information on a selection of plants and invertebrates species (at least those listed under the EC Habitats and Birds Directives, and under the Bern Convention) and all European vertebrates (approx. 2500 species and sub-species): names (scientific and vernaculars in various languages), taxonomy, synonymy, geographic distribution, (including occurrence by country), European threat status, national threat status, and legal status.	European Nature Information System's (EUNIS) Common Database on Designated Areas (CDDA) includes sites designated at national level for nature conservation or sites that contribute to maintain nature and biodiversity. By the end of 2001, there were 46,000 records. Data sets will be updated in 2002-2003. The sites are listed according to the official designations at national level. This list of designation types has about 630 individual designations registered according to national or subnational law. Designation Types constitute a separate table in the CDDA database. The database is part of the European CDDA collaboration on designated areas which is set up between UNEP-WCMC and the Council of Europe	Waste generation and treatment. Data available since 1980. Hazardous waste management facilities: 15 European Union (EU) countries except the United Kingdom. Waste management plans: 9 EU countries. Competent waste authorities and waste management instruments.
Holding body	ETC on Nature Protection and Biodiversity (ETC/NPB) http://nature.eionet.eu.int/	ETC on Nature Protection and Biodiversity (ETC/NPB) http://nature.eionet.eu.int/	ETC on Waste and Material Flows (http://waste.eionet.eu.int)
Contact details	lois@mnhn.fr	sheila.cryan@eea.eu.int	etcw-hj@mst.dk
Data accessibility	Via the Internet http://eunis.eea.eu.int/eunis3/eunis.jsp	Via the Internet http://dataservice.eea.eu.int/dataservice/metadetails.asp?table=desigarea	Via the Internet http://wastebase.eionet.eu.int/

Organization/ Convention <u>Internet address</u>	ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD) SYSTEM OF INFORMATION ON RESOURCES AND THE ENVIRONMENT (SIREN) http://www.oecd.org
Topic	Various
Type of data and time series	<p>A-Data collected every two years since 1981 through the OECD questionnaires on the state of the environment and on environmental expenditure and revenues (joint OECD/Eurostat questionnaire for EU member and accession States, and for countries of the European Free Trade Association (EFTA); cooperation with EEA on topics of common relevance; cooperation with UNSD for countries not covered by OECD). Purpose: provide internationally harmonized basis for environmental indicators and for country environmental performance reviews.</p> <p>B-Topics covered:</p> <ul style="list-style-type: none"> ➤ <u>air</u>: air emissions and air quality (urban, national): all major pollutants; emission data increasingly taken from other international sources such as UNFCCC, CLRTAP; ➤ <u>inland waters</u>: water resources; abstractions by type and by source; waste-water treatment; pollutant discharges into inland waters; river and lake quality; time series since 1970 depending on country and topic; ➤ <u>marine environment</u>: discharges of pollutants into coastal and marine waters; quality of coastal and marine waters (scope and structure of data collection planned to be reviewed with relevant international organizations; low response rate and insufficient quality and comparability of replies) ➤ <u>land</u>: land use, conversions in land use, soil erosion ➤ <u>forest</u>: forest cover, use of forest resources, forest ownership, etc. (cooperation with UNECE/FAO to avoid duplication and double work) ➤ <u>wildlife</u>: species and population status (scope and structure of data collection planned to be reviewed with relevant international organizations; to be linked to ongoing work on biodiversity indicators) ➤ <u>waste</u>: waste generation, management, treatment and disposal; municipal and household waste, industrial waste, hazardous waste (cooperation with the Secretariat of the Basel Convention) ➤ <u>noise</u>: population exposed to different levels of noise ➤ <u>environmental expenditure and revenues</u>: public sector, business sector, households. <p>C-The length of the time series varies among countries and among topics; many data are available since 1970 for some countries, since 1980 or 1990 for other countries; most data are requested annually; some data are requested every five or ten years depending on the topic covered.</p> <p>D These data are systematically complemented with data from other OECD and international sources on 1) environmentally significant trends in selected economic activity sectors (energy, transport, agriculture, industry); 2) environmental topics not covered in the questionnaire (protected areas, natural disasters, industrial accidents, environment-related taxes and policy instruments, water supply prices, multilateral environmental agreements, etc).</p>
Holding body	Working Group on Environmental Information and Outlooks (WGEIO).
Contact details	myriam.linster@oecd.org and frédérique.zegel@oecd.org
Data accessibility	Publications: OECD Environmental Data Compendium (since 1984); OECD Environmental Indicators (since 1991). Summary data and key environmental indicators available on Internet (www.oecd.org/env/)

Annex II**UNECE COUNTRY PARTICIPATION IN INTERNATIONAL ENVIRONMENTAL DATABASES**

Countries	UNFCCC		Ozone Convention/protocol		Basel Convention	
	Participation	Data submission	Participation	Data submission	Participation ¹	Data submission ²
Albania			X		X	Data on hazardous waste and generation
Andorra					X	Data on hw and export
Armenia	X	1990	X	X	X	
Austria	X	1990-2000	X	X	X	Data on hw and others waste generation, import and export
Azerbaijan	X	1990, 1994	X	X	X	
Belarus	X	Not submitted data yet	X	X	X	
Belgium	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Bosnia&Herzegovina			X	X	X	
Bulgaria	X	1990-1999	X	X	X	Data on hw generation and other waste generation, import and data export
Canada	X	1990-2000	X	X	X	Data on import and export
Croatia	X	1990-1995	X	X	X	Data on export
Cyprus			X	X	X	
Czech Republic	X	1990-2000	X	X	X	
Denmark	X	1990-2000	X	X	X	Data on hw generation and other waste, import and export
Estonia	X	1990-2000	X	X	X	
Finland	X	1990-2000	X	X	X	Data on import and export
France	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Georgia	X	1990-1997	X	X	X	Data on import and export
Germany	X	1990-1999	X	X	X	Data on hw generation, import and export
Greece	X	1990-2000	X	X	X	
Hungary	X	1990-2000	X	X	X	
Iceland	X	1990-2000	X	X	X	Data on hw generation and other waste generation, and export
Ireland	X	1990-2000	X	X	X	Data on export
Israel	X	1996	X	X	X	Data on hw generation, import and export
Italy	X	1990-2000	X	X	X	Data on import and export
Kazakhstan	X	1990, 1994	X	X		
Kyrgyzstan			X	X	X	Data on hw generation, other waste generation
Latvia	X	1990-2000	X	X	X	Data on other waste generation and export
Liechtenstein	X	1990	X	X	X	
Lithuania	X	1990, 1995-1998	X	X	X	Data on export

¹ Ratification/Accession/Acceptance/Approval as of 10 April 2002.² Data submission status for the year 1999.

Countries	UNFCCC		Ozone Convention/protocol		Basel Convention	
	Participation	Data submission	Participation	Data submission	Participation ¹	Data submission ²
Luxembourg	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Malta			X	X	X	
Monaco	X	1990-1999	X	X	X	Data on hw generation and other waste generation, import and export
Netherlands	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Norway	X	1990-2000	X	X	X	Data on import and export
Poland	X	1990-2000	X	X	X	Data on hw generation and other waste generation and export
Portugal	X	1990-2000	X	X	X	
Republic of Moldova	X	1990-1998	X	X	X	Data on hw generation
Romania	X	1990-1994	X	X	X	Data on hw generation and other waste generation and export
Russian Federation	X	1990-1996	X	X	X	Data on hw generation and other waste generation and export
San Marino						
Slovakia	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Slovenia	X	1990	X	X	X	Data on hw generation and import and export
Spain	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Sweden	X	1990-2000	X	X	X	Data on hw generation and other waste generation, import and export
Switzerland	X	1990-2000	X	X	X	
Tajikistan			X	X		
TFYR of Macedonia			X	X	X	
Turkey			X	X	X	Data on export
Turkmenistan	X	1994	X	X	X	
Ukraine	X	1990-1998	X	X	X	
United Kingdom	X	1990-2000	X	X	X	Data on hw generation and import and export
United States	X	1990-2000	X	X		
Uzbekistan	X	1990, 1994	X	X	X	Data on hw generation and other waste generation
Yugoslavia			X	X		
Any other	72 more countries worldwide		130 more countries worldwide and the European Community			

Countries	CITES		RAMSAR		UNSD	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania			X	X	X	
Andorra					X	x
Armenia			X	X	X	x
Austria	X	X	X	X		
Azerbaijan	X	(joined in 1999 and no data yet)	X	X	X	X
Belarus	X	X	X	X	X	X
Belgium	X	X	X	X		
Bosnia&Herzegovina			X	X	X	
Bulgaria	X	X	X	X		
Canada	X	X	X	X		
Croatia	X	(joined in 2000 and no data yet)	X	X	X	X
Cyprus	X	X	X	X		
Czech Republic	X	X	X	X		
Denmark	X	X	X	X		
Estonia	X	X	X	X		
Finland	X	X	X	X		
France	X	X	X	X		
Georgia	X	X	X	X	X	X
Germany	X	X	X	X		
Greece	X	X	X	X		
Hungary	X	X	X	X		
Iceland	X	(joined in 2000 and no data yet)	X	X		
Ireland	X	(joined in 2002 and no data yet)	X	X		
Israel	X	X	X	X	X	X
Italy	X	X	X	X		
Kazakhstan	X	(joined in 2000 and no data yet)			X	X
Kyrgyzstan					X	X
Latvia	X	X	X	X		
Liechtenstein	X	X	X	X		
Lithuania	X	(joined in 2000 and no data yet)	X	X		
Luxembourg	X	X	X	X		
Malta	X	X	X	X		
Monaco	X	X	X	X	X	X
Netherlands	X	X	X	X		
Norway	X	X	X	X		
Poland	X	X	X	X		
Portugal	X	X	X	X		
Republic of Moldova	X	(joined in 2001 and no data yet)	X	X	X	X
Romania	X	X	X	X		
Russian Federation	X	X	X	X	X	X
San Marino					X	
Slovakia	X	X	X	X		
Slovenia	X	X	X	X		
Spain	X	X	X	X		
Sweden	X	X	X	X		
Switzerland	X	X	X	X		
Tajikistan			X	X	X	
TFYR of Macedonia	X	(joined in 2000 and no data yet)	X	X	X	X
Turkey	X	X	X	X		
Turkmenistan					X	

Countries	CITES		RAMSAR		UNSD	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Ukraine	X	(joined in 2000 and no data yet)	X	X	X	X
United Kingdom	X	X	X	X		
United States	X	X	X	X		
Uzbekistan	X	X				
Yugoslavia	X	(joined in 2002 and no data yet)		X		
Any other	All other Parties to CITES		Globally: 131 countries at present		All other UN members except OECD and EU accession countries.	

Countries	UNECE/FAO		UNECE/CLRTAP-Air pollution		UNECE/CLRTAP-Crops	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania	X	X				
Andorra						
Armenia	X	X	X	X		
Austria	X	X	X	X	X	X
Azerbaijan	X	X				
Belarus	X	X	X	X		
Belgium	X	X	X	X	X	X
Bosnia&Herzegovina	X	X	X	X		
Bulgaria	X	X	X	X	X	X
Canada	X	X	X	X	X	
Croatia	X	X	X	X		
Cyprus	X	X	X	X		
Czech Republic	X	X	X	X		X
Denmark	X	X	X	X		X
Estonia	X	X	X	X		
Finland	X	X	X	X		X
France	X	X	X	X	X	X
Georgia	X	X	X			
Germany	X	X	X	X	X	X
Greece	X	X	X	X	X	X
Hungary	X	X	X	X		X
Iceland	X	X	X	X		
Ireland	X	X	X	X		
Israel	X	X				
Italy	X	X	X	X	X	X
Kazakhstan	X	X	X			
Kyrgyzstan	X	X	X			
Latvia	X	X	X	X		X
Liechtenstein	X	X	X	X		
Lithuania	X	X	X	X		
Luxembourg	X	X	X	X		
Malta	X	X	X	X		
Monaco			X			
Netherlands	X	X	X	X	X	X
Norway	X	X	X	X	X	X
Poland	X	X	X	X		X
Portugal	X	X	X	X		
Republic of Moldova	X	X	X	X		
Romania	X	X	X	X		
Russian Federation	X	X	X	X	X	X
San Marino	X	X				
Slovakia	X	X	X	X	X	X
Slovenia	X	X	X	X	X	X
Spain	X	X	X	X	X	X
Sweden	X	X	X	X	X	X
Switzerland	X	X	X	X	X	X
Tajikistan	X	X				
TFYR of Macedonia	X	X	X	X		
Turkey	X	X	X	X		
Turkmenistan	X	X				
Ukraine	X	X	X	X		X
United Kingdom	X	X	X	X	X	X
United States	X	X	X	X		X
Uzbekistan	X	X				
Yugoslavia	X	X	X	X		
Any other	Australia, Japan, New Zealand		European Union			

Countries	UNECE/CLRTAP-Forests		UNECE/CLRTAP-Materials		UNECE/CLRTAP-Water	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania	X	X				
Andorra						
Armenia						
Austria	X	X	X		X	X
Azerbaijan						
Belarus	X	X			X	X
Belgium	X	X	X	X	X	X
Bosnia&Herzegovina	X					
Bulgaria	X	X				
Canada	X	X	X	X	X	X
Croatia	X	X				
Cyprus	X	X				
Czech Republic	X	X	X	X	X	X
Denmark	X	X			X	X
Estonia	X	X	X	X	X	X
Finland	X	X	X	X	X	X
France	X	X	X	X	X	X
Georgia						
Germany	X	X	X	X	X	X
Greece	X	X				
Hungary	X	X			X	X
Iceland					X	
Ireland	X	X			X	X
Israel			X	X		
Italy	X	X	X	X	X	X
Kazakhstan						
Kyrgyzstan						
Latvia	X	X			X	X
Liechtenstein	X					
Lithuania	X	X				
Luxembourg	X	X				
Malta						
Monaco						
Netherlands	X	X			X	X
Norway	X	X	X	X	X	X
Poland	X	X	X	X	X	X
Portugal	X	X	X	X		
Republic of Moldova	X	X			X	
Romania	X	X			X	
Russian Federation	X	X	X	X	X	X
San Marino						
Slovakia	X	X			X	X
Slovenia	X	X				
Spain	X	X	X	X	X	X
Sweden	X	X	X	X	X	X
Switzerland	X	X	X	X	X	X
Tajikistan						
TFYR of Macedonia	X					
Turkey	X					
Turkmenistan						
Ukraine	X	X				
United Kingdom	X	X	X	X	X	X
United States	X	X	X	X	X	X
Uzbekistan						
Yugoslavia	X	X				
Any other	European Union					

Countries	UNECE/CLRTAP-Ecosystems		UNECE/CLRTAP-Mapping		EUROSTAT	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania					X	
Andorra						
Armenia						
Austria	X	X	X	X	X	X
Azerbaijan						
Belarus	X	X	X	X		
Belgium			X	X	X	X
Bosnia&Herzegovina					X	
Bulgaria			X	X	X	X
Canada	X	X				
Croatia			X	X	X	X
Cyprus					X	X
Czech Republic	X	X	X	X	X	X
Denmark	X	X	X	X	X	X
Estonia	X	X	X	X	X	X
Finland	X	X	X	X	X	X
France			X	X	X	X
Georgia						
Germany	X	X	X	X	X	X
Greece					X	X
Hungary			X	X	X	X
Iceland		X			X	X
Ireland	X	X	X	X	X	X
Israel					(X)	(X)
Italy	X	X	X	X	X	X
Kazakhstan						
Kyrgyzstan						
Latvia	X	X			X	X
Liechtenstein						
Lithuania	X	X			X	X
Luxembourg					X	X
Malta					X	X
Monaco						
Netherlands	X	X	X	X	X	X
Norway	X	X	X	X	X	X
Poland	X	X	X	X	X	X
Portugal	X	X			X	X
Republic of Moldova			X	X		
Romania					X	X
Russian Federation	X	X	X	X		
San Marino						
Slovakia			X	X	X	X
Slovenia					X	X
Spain	X	X	X	X	X	X
Sweden	X	X	X	X	X	X
Switzerland	X	X	X	X	X	X
Tajikistan						
TFYR of Macedonia					X	
Turkey					X	X
Turkmenistan						
Ukraine						
United Kingdom	X	X	X	X	X	X
United States						
Uzbekistan						
Yugoslavia					X	
Any other					Some data are also available from non-European Mediterranean countries	

Countries	EEA-Air quality		EEA-Air/greenhouse gas emissions		EEA-Water quantity	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania						
Andorra						
Armenia						
Austria	X	X	X	UNFCCC; CLRTAP		
Azerbaijan						
Belarus						
Belgium	X	X	X	UNFCCC; CLRTAP		
Bosnia&Herzegovina						
Bulgaria			X	UNFCCC; CLRTAP		
Canada						
Croatia						
Cyprus			X			
Czech Republic	X	X	X	UNFCCC; CLRTAP		
Denmark	X	X	X	UNFCCC; CLRTAP		X ³
Estonia	X	X	X	UNFCCC; CLRTAP		X ⁴
Finland	X	X	X	UNFCCC; CLRTAP		
France	X	X	X	UNFCCC		X ⁵
Georgia						
Germany	X	X	X	UNFCCC		X ³
Greece	X	X	X	UNFCCC		X ⁴
Hungary	X	X	X			X ³
Iceland	X	X	X			
Ireland	X	X	X	UNFCCC; CLRTAP		
Israel						
Italy	X	X	X	UNFCCC		
Kazakhstan						
Kyrgyzstan						
Latvia	X	X	X	UNFCCC		X ³
Liechtenstein			X			
Lithuania	X	X	X			X ³
Luxembourg	X	X	X	UNFCCC; CLRTAP		
Malta	X	X	X			
Monaco						
Netherlands	X	X	X	UNFCCC; CLRTAP		
Norway	X	X	X	UNFCCC; CLRTAP		
Poland	X	X	X	CLRTAP		
Portugal	X	X	X	UNFCCC		
Republic of Moldova						
Romania	X	X	X			
Russian Federation						
San Marino						
Slovakia	X	X	X	UNFCCC		
Slovenia	X	X	X	UNFCCC; CLRTAP		X ³
Spain	X	X	X	UNFCCC		X ³
Sweden	X	X	X	UNFCCC; CLRTAP		
Switzerland	X	X				
Tajikistan						
TFYR of Macedonia	X	X				
Turkey			X			
Turkmenistan						
Ukraine						
United Kingdom	X	X	X	UNFCCC; CLRTAP		X ³
United States						
Uzbekistan						
Yugoslavia						
Any other						

³ Data submitted for station selection of precipitation, internal inflow and actual outflow data sets.⁴ Data submitted for station selection of precipitation data set.⁵ Data submitted for station selection of internal inflow and actual outflow data sets.

Countries	EEA-Groundwater		EEA-Marine waters		EEA-Land changes	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania	X		X	X (via MEDPOL ⁶)	X	X
Andorra					X	X
Armenia						
Austria	X	X			X	X
Azerbaijan						
Belarus						
Belgium	X	X	X	X	X	X
Bosnia&Herzegovina	X	X	X		X	X
Bulgaria	X	X			X	X
Canada						
Croatia			X		X	
Cyprus						
Czech Republic	X	X			X	X
Denmark	X	X	X	X	X	X
Estonia	X	X	X	X	X	X
Finland	X	X	X	X	X	X
France	X		X	X	X	X
Georgia						
Germany	X	X	X	X	X	X
Greece	X	X	X	X	X	X
Hungary	X	X			X	X
Iceland	X		X	X (via ICES ⁷)		
Ireland	X	X	X	X	X	X
Israel						
Italy	X		X	X	X	X
Kazakhstan						
Kyrgyzstan						
Latvia	X	X	X	X	X	X
Liechtenstein	X				X	Expected 2003
Lithuania	X	X	X	X	X	X
Luxembourg	X				X	X
Malta			X	X (via MEDPOL)		
Monaco					X	X
Netherlands	X	X	X	X	X	X
Norway	X		X	X		
Poland	X	X	X	X (via ICES)	X	X
Portugal	X		X	X (via ICES)	X	X
Republic of Moldova						
Romania	X				X	X
Russian Federation			X	X (via ICES)		
San Marino					X	X
Slovakia	X	X			X	X
Slovenia	X	X	X	X	X	X
Spain	X	X	X	X	X	X
Sweden	X	X	X	X	X	Expected 2003
Switzerland					X	X (only level 2) ⁸
Tajikistan						
TFYR of Macedonia	X	X	X		X	X
Turkey			X	X (via MEDPOL)		
Turkmenistan						
Ukraine						
United Kingdom	X	X	X	X	X	X
United States						
Uzbekistan						
Yugoslavia			X	X (via MEDPOL)		
Any other					Morocco&Tunisia, 50 km coastal area	

⁶ Mediterranean Pollution Monitoring and Research Programme.

⁷ International Council for the Exploration of the Sea.

⁸ Corine Land Cover legend is structured in three different levels of detail. The first one is the more general level, with only five land cover classes, whereas the third one is the more detailed level, with 44 classes. For all countries concerned but Switzerland, level 3 is available.

Countries	EEA-Species		EEA-Designated Areas		EEA-Waste	
	Participation	Data submission	Participation	Data submission	Participation	Data submission
Albania		X	X	X	X	1996-98
Andorra			X			
Armenia			X	X		
Austria		X	X	X	X	1990-99
Azerbaijan		X	X	X		
Belarus						
Belgium		X	X	X	X	1980-99
Bosnia&Herzegovina		X	X	X	X	
Bulgaria		X	X	X	X	1990-98
Canada						
Croatia		X	X	X	X	
Cyprus		X	X	X	X	1985-2000
Czech Republic		X	X	X	X	1990-99
Denmark		X	X	X	X	1980-99
Estonia	X	X	X	X	X	1994-99
Finland	X	X	X	X	X	1985-99
France	X	X	X	X	X	1990-98
Georgia		X	X	X		
Germany		X	X	X	X	1990-96
Greece		X	X	X	X	1980-99
Hungary		X	X	X	X	1980-99
Iceland		X	X	X	X	1992-99
Ireland		X	X	X	X	1984-98
Israel						
Italy		X	X	X	X	1980-98
Kazakhstan		X				
Kyrgyzstan						
Latvia		X	X	X	X	1995-99
Liechtenstein		X	X	X	X	
Lithuania		X	X	X	X	1992-99
Luxembourg		X	X	X	X	1990-98
Malta		X	X	X	X	1999
Monaco			X	X		1994-2000
Netherlands	X	X	X	X	X	1980-2000
Norway		X	X	X	X	1980-99
Poland		X	X	X	X	1980-99
Portugal	X	X	X	X	X	1985-99
Republic of Moldova		X	X	X		
Romania		X	X	X	X	1995-99
Russian Federation		X	X	X		1993-2000
San Marino			X			
Slovakia	X	X	X	X	X	1995-98
Slovenia		X	X	X	X	1993-95
Spain	X	X	X	X	X	1980-99
Sweden		X	X	X	X	1980-98
Switzerland		X	X	X	X	1985-99
Tajikistan						
TFYR of Macedonia		X	X	X	X	
Turkey		X	X	X	X	1994-98
Turkmenistan						
Ukraine		X	X	X		
United Kingdom	X	X	X	X	X	1989-1999
United States						
Uzbekistan						
Yugoslavia		X				
Any other						

Countries	OECD/SIREN	
	Participation	Data submission
Albania		
Andorra		
Armenia		
Austria	X	X
Azerbaijan		
Belarus		
Belgium	X	X
Bosnia&Herzegovina		
Bulgaria	Xx	Xx
Canada	X	X
Croatia		
Cyprus	Xx	Xx
Czech Republic	X	X
Denmark	X	X
Estonia	Xx	Xx
Finland	X	X
France	X	X
Georgia		
Germany	X	X
Greece	X	X
Hungary	X	X
Iceland	X	X
Ireland	X	X
Israel		
Italy	X	X
Kazakhstan		
Kyrgyzstan		
Latvia	Xx	Xx
Liechtenstein		
Lithuania	Xx	Xx
Luxembourg	X	X
Malta	Xx	
Monaco		
Netherlands	X	X
Norway	X	X
Poland	X	X
Portugal	X	X
Republic of Moldova		
Romania	Xx	Xx
Russian Federation	X	X
San Marino		
Slovakia	X	X
Slovenia	Xx	Xx
Spain	X	X
Sweden	X	X
Switzerland	X	X
Tajikistan		
TFYR of Macedonia		
Turkey	X	X
Turkmenistan		
Ukraine		
United Kingdom	X	X
United States	X	X
Uzbekistan		
Yugoslavia		
Any other	<u>Other OECD countries:</u> Australia, Japan, Republic of Korea, Mexico, New Zealand. <u>Other non-OECD countries:</u> covered by UNSD data collection using a simplified version of the OECD questionnaire.	

Legend: X - OECD member and partner countries: data collection and treatment by OECD; jointly with Eurostat for EU Member States and EFTA countries; Xx - non-OECD EU candidate accession countries: data collection and treatment by Eurostat, using the OECD/Eurostat questionnaire.