



**ECONOMIC COMMISSION FOR EUROPE
UNITED NATIONS**

UNECE Working Group on Environmental Monitoring and Assessment

*in cooperation with the Russian Environmental Federal Information Agency (REFIA)
with the assistance of the European Environment Agency (EEA)
and the financial support of the Fund “Environment for Europe” of the United Kingdom and
of the Ministry of Housing, Spatial Planning and Environment of the Netherlands*

***Workshop on
ELECTRONIC DATABASES FOR ENVIRONMENTAL
REPORTING***

May 13-14, 2004, Moscow, Russian Federation

WORKSHOP MINUTES¹

1. UNECE Working Group on Environmental Monitoring and Assessment (WGEMA) organized the Workshop on Electronic Databases for Environmental Reporting on 13-14 May 2004 in Moscow (Russian Federation) in cooperation with the Russian Environmental Federal Information Agency (REFIA) and the European Environment Agency (EEA).

2. The members of the Working Group on Environmental Monitoring and Assessment from countries of Eastern Europe, Caucasus and Central Asia (EECCA) - national focal points, EECCA governmental representatives, environmental information officials and experts from Russia, representatives of international organizations, the private sector and NGOs participated in the Workshop.

National focal points from countries of Eastern Europe, Caucasus and Central Asia

Armenia – Gennady KOJOYAN, Head of the Hydrometeorology and Environmental Monitoring Agency.

Azerbaijan - Lahuti ALIEV, Director of National Environmental Monitoring Department of the Ministry of Ecology and Natural Resources.

Belarus – Svetlana UTOCHKINA, Head of Monitoring and Analytical Control Unit of the Ministry of Natural Resources and Environmental Protection.

Georgia – Nino SHARASHIDZE, Leading Specialist of Environmental Policy Department of the Ministry of Environment.

Republic of Moldova – Petru COCIRTA, Chief the Monitoring, Ecological Management and Sustainable Development Laboratory.

¹ Informal translation from Russian.

Russian Federation - Olga NOVOSELOVA, Deputy Chief of Planning and Coordination for Environmental Protection Activity Department of the Ministry of Natural Resources.

Tajikistan - Taqinisso NOSSIROVA, Deputy Head of the State Committee for Environmental Protection and Forestry.

Turkmenistan – Irina ATAMURADOVA, Technical Assistant of National Coordinator on Climate Change of the Ministry of Nature Protection.

Officials designated by EECCA countries for cooperation on environmental information systems and networks

Armenia

Lev HARUTYUNYAN, Director of Information and Analytical Centre of the Ministry of Nature Protection.

Azerbaijan

Jeyhun ALIYEV, Head of Website Support Department of State Archived Information Fund on Environment and Natural Resources of the Ministry of Ecology and Natural Resources.

Belarus

Saweliy KOUZMIN, Head of Monitoring Division, Scientific and Research Centre ECOLOGY.

Georgia

Ramaz CHITANAVA, Adviser to the Minister Ministry of Environment.

Kazakhstan

Olga MELNIK, Senior Specialist of the International Programmes and Projects, Informational and Analytical Centre of Environmental Protection.

Kyrgyzstan

Victoria AFANASENKO, Chief of the Information and Analytical Support and Environmental Education Section of the Ministry of Environment and Emergencies.

Tamara SEREDA, Senior Specialist of the Ecology and Use of Natural Resources Department of the Ministry of Environment and Emergencies.

Russian Federation

Jumshid DJANGIROV, Deputy Chief of the Environment Pollution Monitoring Department of Rosgidromet.

Vyacheslav SHERSHAKOV, Deputy General Director of Scientific and Production Association “Typhoon”, Head of the Informational Analytical Center of Rosgidromet.

Sergei TVERITINOV, Head of International Cooperation in the Area of Environmental protection Department of Ministry of Natural Resources of the Russian Federation.

National information agency “Natural Resources” (NIA-Priroda):

Eugeny D.SAMOTESOV, First Deputy Director.

Sergei FILIPPOV, Deputy Director.

Alexander DUMNOV, Head of Statistics Service.

Sergei KONYAEV, Head of Information Service.

Russian Environmental Federal Information Agency (REFIA):

Nikolay RYBALSKY, Director.

Alexey BARSOV, Executive Director.

Alexander FEDOROV, First Deputy Director.

Irina SOSSUNOVA, Head of Sociology Center.

Eugeny E.SAMOTESOV, Head of IT Center.

Tajikistan

Bahtier BEHMOURADOV, Tabiat Centre of the State Committee on Environmental Protection.

Turkmenistan

Amangul OVEZBERDIEVA, Senior Scientist of the Scientific and Research Center for Environmental Monitoring of Ministry of Nature Protection.

Ukraine

Stanislav KOLOTUSHA, Deputy Director of the State Environmental Monitoring Department of Ministry for the Environment Protection.

Anatoly SHMURAK, Chief of State Information Systems and Technologies Unit of the Ministry for Environment Protection.

Uzbekistan

Tatiana YEZHKOVA, Leading Specialist of the State Inspection for Analytical Control of the State Committee for Nature Protection.

United Nations Economic Commission for Europe (UNECE)

Mikhail KOKINE, Secretary to the Working Group on Environmental Monitoring and Assessment.

Michael STANLEY-JONES, Environmental Information Management Officer of the Aarhus Convention Secretariat, UNECE Environment and Human Settlements Division.

Yuri TSATUROV, WGEMA Chair, First Deputy Head of Rosgidromet.

Alexander SVIRCHEVSKY, consultant.

European Environment Agency (EEA)

Stefan JENSEN, Project Data Harmonisation Manager.

United Nations Environment Program (UNEP)

Arcadiy LEVINTANUS, Head of Climate Change and Desertification Division.

Intergovernmental Statistical Committee of the Commonwealth of Independent States (ISC CIS)

Elena VOS'MIRKO.

International Center for Scientific and Technical Information (ICSTI)

Alexey LOVTSOV, Head of Information and Analytical Projects Department.

Non-Governmental Organisations (NGO)

Eldar ZARIPOV, Administrator on Information and Communication of the Russian Regional Environmental Center.

Andrey IVASCHENKO, ECO-ACCORD (Russia), Chemical Safety Project.

Private Sector

Rene JAKOBSON, Managing Director of TietoEnator Eesti AS.

3. The meeting was opened by Nikolay RYBALSKY (REFIA), Olga NOVOSELOVA (MNR of Russia), Stefan JENSEN (EEA) and Mikhail KOKINE (UNECE), who welcomed the Workshop participants and highlighted importance of WGEMA current and perspective activities.

4. Nikolay RYBALSKY (REFIA) and Svetlana UTOCHKINA (Belarus) chaired the Workshop on the first day. Irina ATAMURADOVA (Turkmenistan) and Yuri TSATUROV (Working Group on Environmental Monitoring and Assessment Chair) chaired on the second day.

5. During the first day of the Workshop participants, in particular:

- assessed the achieved results in the cooperation of the EECCA countries on electronic tools and guidelines;
- evaluated the effectiveness and user-friendliness of the electronic database and catalogue established at the UNECE web-site <http://unece.unog.ch/enhs/wgema>;

- discussed ways and means of making this web-site known and visited by officials, experts and the public in the EECCA countries by way of establishing and publicizing cross-links from national environmental web sites,

6. Alexander SVIRCHEVSKY (UNECE) presented results of the evaluation of technical capacities of EECCA environment ministries in the sphere of environmental information. Particularly, it was outlined that significant part of computer equipment in these ministries is outdated. Not every ministry has a local computer network in their premises. Despite the fact that every ministry has Internet access, it is mostly only a dial-up connection rather than a constant on-line connection. This does not allow to manage national web sites in a fast and timely mode, particularly to update its content in time. The presentation gave overview of the current state of official environmental web-sites, information updating regime and availability of information on environment reporting. Only Belarus, Russian Federation and Ukraine are completely ready to start a common network activity and use the group software (Groupware), whereas Armenia, Georgia, Tajikistan and Turkmenistan are not prepared to join this network. The presentation also evaluated the capacity for creating electronic ECOREPORTING catalogue. Most of the countries possess all needed conditions for this project development and maintenance; Tajikistan and Turkmenistan are the last among the EECCA countries in terms of their technical capacity.

7. Mikhail KOKINE (UNECE) presented the results of the work aimed at creating an electronic Catalogue of Data Sources and database, containing information about officials, responsible for data and information flows in the EECCA countries. He mentioned that representatives of environmental ministries of all 12 EECCA countries were trained to use electronic tools and guidelines (designed by EEA); they also received computer equipment, software and relevant support. The electronic catalogue described environmental data sources in the EECCA countries, including state bodies, reports and databases with Internet links to many of these sources. As a result of the conducted work the following data was uploaded on the UNECE web-site: information about 130 representatives in the EECCA countries responsible for the state of the environment data and main information flows; more than 1,500 records about data sources in Eastern Europe, Caucasus and Central Asia linked with more than 600 addresses of organizations and responsible representatives. The weak points of the catalogue were the following: the data entered contained mainly local (not national) level of information, very few sources were accessible directly through the Internet, some entered data referred to the paper information sources (textbooks, manuals, magazines, etc). Some records referred to the statistical forms rather than to environmental data.

8. The following speakers reported on *Internet technologies for environmental information management: EECCA countries' experience*:

from **Azerbaijan** - Jeyhun ALIYEV: spoke on the Ministry structure and internal ways of information exchange; on reporting prepared by different ministerial structures and its availability at the Ministry's site; he also spoke about the plans to develop further the national environmental web-site and to establish electronic databases.

from **Belarus** - Saweliy KOUZMIN: spoke on the organization of information cooperation in the environmental monitoring and protection in Belarus; described the types and forms of environmental information prepared by specialists; information periodicals; system of information flows in the national monitoring system; Internet technologies used for information presentation and dissemination, and shared the future plans for national web-site development;

from **Kazakhstan** - Olga MELNIK: spoke about information cooperation in the Ministry; inter-sectoral problems; information programme for the years 2004-2006; future plans for the national

web-site development aimed at improving the presentation of reporting results on environmental state and monitoring assessment.

from **Kyrgyzstan** - Victoria AFANASENKO: spoke about Internet technologies implementation aimed at increasing environmental awareness in Kyrgyzstan; on Ministry units responsible for information providing; about the data available at the Ministry's site; about future plans to develop the national web-site and on-line databases on environmental pollution.

from **Ukraine** - Anatoly SHMURAK: spoke about the national web-portal structure; the cooperation between the staff members responsible for the network implementation and the administrators; about methodology and approaches to the portal establishing and updating; portal developers; and also about the factors needed for further development of the Ministry portal.

9. The following country representatives participated in further discussions: representatives of Armenia (Gennady Kojoyan and Lev Harutyunyan), Azerbaijan (Lahuti Aliev), Belarus (Svetlana Utochkina), Georgia (Nino Sharashidze and Ramaz Chitanava), Kyrgyzstan (Tamara Sereda), Moldova (Petru Cocirta), Russian Federation (Olga Novosselova and Vyacheslav Shershakov), Tajikistan (Taqiniso Nossirova and Bahtier Behmouradov), Turkmenistan (Irina Atamuradova and Amangul Ovezberdieva), Ukraine (Stanislav Kolotusha), Uzbekistan (Tatiana Yezhkova). They commented on the assessment of the countries' technical capacity, particularly on availability of computer equipment in the ministries, as well as local computer networks and resources for maintenance of the national web-sites. Participants expressed their wishes to create additional tools for information search in the Catalogue of Data Sources (CDS) per record creation time (Ukraine), speed of site operation optimization (Moldova), statistical records of notes (Moldova and Ukraine) and special validation module for links to Internet-resources included in the CDS (Ukraine).

10. It was outlined by EECCA countries' representatives that due to specifics of national conditions it was currently crucial to issue environmental data and information in paper form and that this situation had to be taken into account in the development of information source databases. Some countries' representatives informed about serious difficulties they encountered in producing and publishing national reports on the regular basis.

11. Workshop participants discussed ways and means to increase visitation to the UNECE web-site and the level of public awareness about it. In particular, Stefan JENSEN (EEA) suggested that all accessible information channels, such as official national environmental web-sites and mass media should be used for a wider introduction of this site.

12. Sergei FILIPPOV (NIA-Priroda) presented the structure and administration system of the national portal "Priroda" (The Nature), spoke about the successful implementation and functioning of the integrated environmental electronic database. The database was developed with the UNEP support within the framework of the special information space model of environmental and natural resource complex in Russia. He highlighted the possibilities to choose the ways for maintaining and updating the database including on-line possibilities.

13. Workshop participants discussed the role and place of EECCA countries in other international environmental and reporting databases.

14. Alexey LOVTSOV (ICSTI) made a presentation on International metadata exchange network "Quality of Human Habitat: Atmosphere, Water, Soil and Dwellings". The speaker presented the information on database integrated into International Centre for Scientific and Technical Information site, ways of information collection and publishing. Many EECCA countries are members of this network. There is a partner-organisation responsible for data

collection and transmission in each country. The speaker described the organisational and financial issues between the information holders and the ways of resolving them. Statistical data on work with the records was also presented, - the users employed only 40% of GEMET terms and the database contained no references to e-mail addresses of the organizations.

15. The presentation by Elena VOSMIRKO (ISC CIS) “Experience of the CIS Intergovernmental Statistical Committee in environmental reporting and data collection” was of interest to the participants. Nomenclature and periodicity of issues published by the CIS Intergovernmental Statistics Committee, as well as statistical compendium examples were presented. The speaker answered questions mainly about the ways of data collection, dissemination and its accessibility.

16. Arcadiy LEVINTANUS (UNEP) has informed the Workshop about the “Harmonization of reporting and information flows management for multilateral environmental agreements on biodiversity: UNEP experience”. He spoke about organizational and administrative features of the reporting system; guidelines for reporting coordination in the UNEP countries – information and data collection, verification, summarizing; about establishing the information centre/depositary for biodiversity data; as well as about the availability of modern information technologies and expert training. The speaker also highlighted the importance to provide on-line reports, to establish operational frameworks for interested stakeholders to interact on biodiversity issues and on interrelation between the national reports on the state of the environment and reporting under conventions.

17. In his report on “Aarhus Convention Clearing-house mechanism” Michael STANLEY-JONES (UNECE Aarhus Convention Secretariat) described a new project on creating electronic tools for access to environmental information with active participation of UNEP/GRID-Arendal. Programme decisions for the site www.ecodemos.org were demonstrated. The speaker invited participants to take part in uploading data on this site.

18. Irina SOSUNOVA (REFIA) presented “Public participation Indicators”. She informed participants about the experience of on-line surveys on the national portal “Priroda” (The Nature) for public involvement in decision-making and about the effect of survey results on environmental decision-making in particular.

19. Stefan JENSEN (EEA) presented “The EEA/EIONET information system - current applications (Reportnet, SERIS ...) and further developments”. He described the latest modern EEA electronic tools and guidelines used by EEA members and associated countries, especially ReportNet and its technical features. In answering questions Stefan JENSEN estimated benefits of different database technical solutions, including possible benefits to EECCA countries today of a centralized database.

20. Rene JAKOBSON (Managing Director of TietoEnator Eesti AS) added to Stefan JENSEN’ report by presenting “ReportNet Architecture: Technical Support”. He mentioned technical aspects of ReportNet implementation, which provides a toolkit for collecting, storing, interpreting and presenting data on the environmental state, as well as infrastructure on data providers and suppliers, and doesn’t require replacement of existing sites.

21. Alexander DUMNOV, Head of NIA-Priroda Statistics Center spoke about specifics of operation with statistic indicators, relevant information availability and different methodologies of its processing. Special attention was paid to creation of statistic dynamic lines and their representation on the national portal «Priroda» («The Nature»).

22. Sergei FILIPPOV (NIA-Priroda) reported on «Development stages and methods of establishing the system of regular environmental reporting in EECCA countries: establishing the information system and an environmental portal of EECCA countries». The speaker presented a proposal to create an information system for collection, processing, storage and dissemination environmental information in EECCA countries, coupled with establishing the programme-technological platform for information projects, as well as the creation of an environmental portal of EECCA countries and dissemination of its versions as unified national sub-portals. Each sub-portal should support a minimum of three languages: national and two UN official languages – Russian and English.

23. Eldar ZARIPOV (Russian Regional Environmental Center) informed the participants about the Russian REC project «Environmental Information Cadastre» and data it contains. During the ensuing discussion the speaker was recommended to avoid information duplication and inform potential suppliers and designers of internet-oriented tools prior to completing ToR and action plan design.

24. In the course of the discussion session on *Development of Electronic EcoReporting* the concept of national and international reporting as the next stage for the Working Group on Environmental Monitoring and Assessment project development was presented and discussed.

25. Alexander SVIRCHEVSKY presented a discussion paper on «*Technical aspects of EcoReporting development*». He stressed the necessity of creating «a transmission information in one hand network» as a crucial condition for development through the mechanism of «national administrators», responsible for information data placement and new documents registration at the EcoReporting catalogue. Main modules of EcoReporting were presented, such as: information search per countries and topics, additional information on regular international reports under conventions, as well as an administrative module. A special administrative module for national administrators was envisaged which would allow to screen document list in the country's sub-catalogue, to register and download new documents onto the catalogue or mark internet links. After the registration of a new document an automatic message would be created and sent to a UNECE administrator. Further plans for the catalogue development by means of creating a reporting sub-catalogue on an agreed list of environmental indicators (from the core set of environmental indicators for EECCA countries developed within the WGEMA framework) were presented.

26. During the ensuing discussion the countries' representatives expressed their wishes about additional services and possible interface changes. These changes were directed towards the easier way of new document registration. The main discussion related to the criteria of document selection for the database. Anatoly SHMURAK (Ukraine) proposed criteria of the document selection that were used in Ukrainian Ministry portal (the DPSIR model – Driving forces, Pressure, State, Impact, Response). Other participants expressed their wishes to use a more traditional approach for document sorting.

27. The participants considered the list of environmental reports to be uploaded on the EcoReporting Catalogue. While drafting this list, the UNECE Secretariat took into account the answers to the questionnaire distributed among the EECCA countries' experts. [Annex 2](#) to the Workshop Minutes contains information about the publication of periodical official information reports (state or national reports, compendia and bulletins) on the environment in EECCA countries, obtained by the Secretariat from answers to the questionnaire and specified during the Workshop.

28. As a result of the discussion it was agreed that the EcoReporting would include the following blocks:

1. State and protection of the environment
2. Environmental pollution
3. Atmospheric air
4. Climate change
5. Biodiversity
6. Forests
7. Fisheries
8. Land resources and soils
9. Water
10. Marine environment
11. Waste
12. Environmental health
13. Emergencies
14. Environment statistics
15. Sustainable development

This system will include not only periodicals, but also ad hoc specific state or national reports and relevant action programs and plans. Both parts, national publications and international reporting, will use a unified classification as far as possible. The block on Pollution of the environment will be missing in the part on international reporting.

29. The Workshop participants agreed on an action plan ([Annex 1](#)) for the activities to be implemented over the next few years in the EECCA countries as well as by the Secretariat on creating the EcoReporting catalogue, and also on the work aimed at updating the database on environmental networks and further development of the data source catalogue.

30. Two parallel sessions were conducted during the last Workshop stage. At the plenary session the members of the Working Group on Environmental Monitoring and Assessment from EECCA countries exchanged opinions about their countries' priorities for Working Group activities for the years 2005-2007. Concurrently, the issues of implementing technological means for developing the EcoReporting Catalogue were discussed at the technical session for the EECCA experts on information technologies. The importance of using the software with the open origin code was emphasized. Technical decisions applied by the Russian and Ukrainian specialists in national electronic environmental catalogues were also discussed.

31. Closing the Workshop the participants expressed their thanks to REFIA for supporting the Workshop and help in its conducting, as well as for the warm welcome and hospitality.

ACTION PLAN OF ACTIVITIES TO BE IMPLEMENTED FOR ESTABLISHING THE ECOREPORTING PORTAL FOR EASTERN EUROPE, THE CAUCASUS AND CENTRAL ASIA

Within the framework of a joined UNECE–EEA project the electronic database was created by the countries of Eastern Europe, Caucasus and Central Asia, containing (a) information about national expert networks on environmental monitoring, and (b) the catalogue of data sources and data sets, as well as of organisations, reports and other information environmental products (<http://unece.unog.ch/enhs/wgema/>). The further development of this database will be implemented, mainly, by establishing an environmental reporting sub-system EcoReporting Catalogue (like EEA ReportNet).

Site organization

The EcoReporting catalogue will contain documents of various formats in the UNECE official languages as well as direct links to on-line resources, such as documents at the national and other sites. The site will provide search based on different criteria e.g. per country and per topic, search for specific documents; the site will also have additional information on international reporting and the report publication deadlines. This approach will simplify the information search. Special module for information registration and downloading will be another site feature.

The site will contain the following information:

I. National informational periodicals (state or national reports, bulletins, action programs/plans and reports on their implementation) on the environment in countries of the Eastern Europe, Caucasus and Central Asia. The following classification will be used for information search and downloading:

1. State and protection of the environment
2. Environmental pollution
3. Atmospheric air
4. Climate change
5. Biodiversity
6. Forests
7. Fisheries
8. Land resources and soils
9. Water
10. Marine environment
11. Waste
12. Environmental health
13. Emergencies
14. Environment statistics
15. Sustainable development.

On those sections where official periodicals aren't presently published (for instance, on Climate change, Marine environment, Waste and Sustainable development), national administrators will be able to register either ad hoc official publications or related sections of state and national environmental reports.

II. Reporting related to participation in basic international environmental agreements (Conventions), organizations and programmes obligations, namely:

	Classification	International Agreement, Organization or Program
1.	Environmental state and protection - Pan-European reports	Ministerial Conferences “Environment for Europe”
2.	Environmental state and protection - EIA	Convention on Environmental Impact Assessment in a Transboundary Context and its Protocol
3.	Environmental state and protection - Public Participation	Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention) and its Protocol
4.	Environmental state and protection - Transport	Pan-European Programme “Transport, Health and Environment”
5.	Environmental state and protection - The Arctic	Arctic Monitoring and Assessment Program (AMAP)
6.	Environmental state and protection - Different data	United Nations Environment Programme (UNEP) World Meteorological Organisation (WMO) and the others
7.	Atmospheric Air - Ozone Layer	Vienna Convention for the Protection of the Ozone Layer and Montreal Protocol on Substances That Deplete the Ozone Layer
8.	Atmospheric Air - Chemicals. Air pollution	Stockholm Convention on Persistent Organic Pollutants
9.	Atmospheric Air - Air pollution	Convention on Long-Range Transboundary Air Pollution
10.	Climate change	UN Framework Convention on Climate Change and Kyoto Protocol (1997)
11.	Biodiversity	Convention on Biological Diversity and Cartagena protocol
12.	Biodiversity	Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
13.	Biodiversity	Convention on Conservation of Migratory Species of Wild Animals (CMS)
14.	Biodiversity	Convention on Wetlands Of International Importance Especially as Wildlife Habitat (Ramsar Convention)
15.	Biodiversity	Convention Concerning the Protection of the World Cultural and Natural Heritage
16.	Biodiversity	Convention on the Conservation of European Wildlife and Natural Habitats
17.	Forests	UNECE/FAO Temperate and Boreal Forest Resource Assessment
18.	Land resources	Convention to Combat Desertification
19.	Water	Convention on the Protection and Use of Transboundary Watercourses and International Lakes and its protocols
20.	Water	Convention on Cooperation for the Protection and Sustainable Use of the Danube River

21.	Marine environment	Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter (PIBD)
22.	Marine environment	Convention on Civil Liability for Oil Pollution Damage
23.	Marine environment	Convention on the Protection of the Black Sea Against Pollution
24.	Marine environment	Convention on the Protection of the Marine Environment of the Baltic Sea Area (HELCOM)
25.	Marine environment	Caspian Environmental Program
26.	Wastes	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal
27.	Environmental health	Pan-European Ministerial Conferences on Health and Environment
28.	Emergencies	Convention on the Transboundary Effects of Industrial Accidents and its protocol
29.	Environment statistics	United Nations Statistics Division (UNSD)
30.	Sustainable development	UN Commission on Sustainable Development (CSD)

The main modules for designing the EcoReporting system will be the following: information search per topic, per country, per document; international reporting information; report publication deadlines, information entry module. National representatives («National administrators») will be responsible for technical aspects of information transmission and registration on the UNECE site. National administrator is a person responsible in his/her country for cooperation with the UNECE in the environmental information system sphere.

It is considered that after the EcoReporting Catalogue launch, national administrators will start registering (uploading) environmental national publications and international reports that have been issued or submitted to the international bodies from the beginning of 2004.

Automatic brief message about document registration will be created and sent to the UNECE administrator just after a new document has been uploaded. This mechanism will simplify the UNECE administrator's job, which will manage the database content with the support of an administrative module. The module will allow the administrator to screen all registered records and, after verification of registered data, to authorize the record placement at the UNECE site.

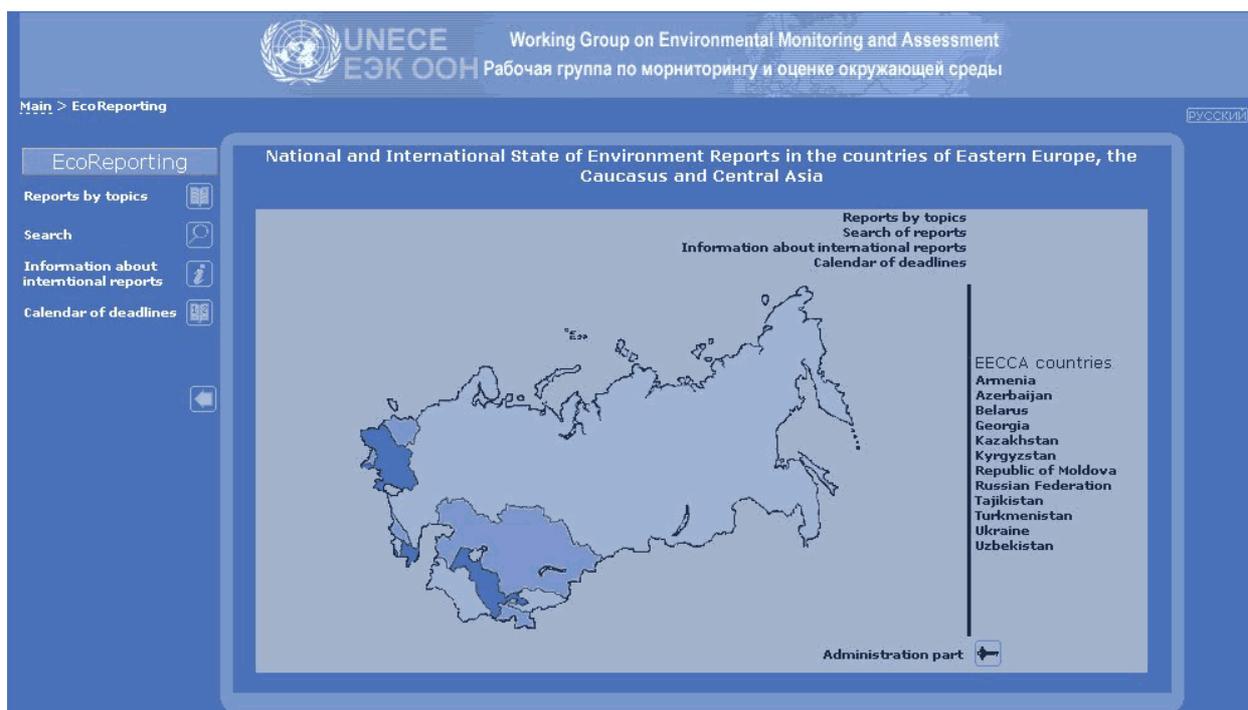
The site mechanism will allow using XML-RDF for facilitating automatic metadata exchange between the sites of the UNECE Working Group and EEA (ReportNet). It will expand the search opportunities since the search will be automatically conducted both through the Working Group's site and ReportNet records.

Brief description of the EcoReporting Catalogue interface

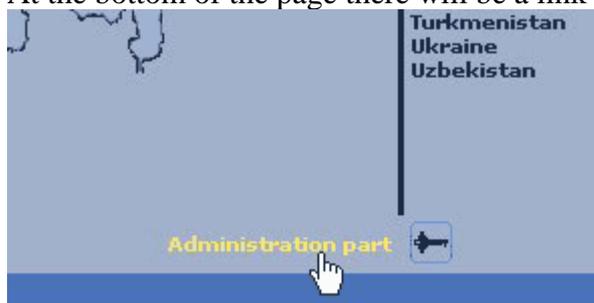
EcoReporting Catalogue interface, just as the whole site, will be bilingual, with full Russian and English support of all modules. For a new document registration it will be obligatory to enter brief information about the document (title, author(s), annotation) in both languages, that's why all information should be identical both for English- and Russian-speaking users.

A start page of the site will offer several options for working with documents: information search according to different criteria or registration for entrance into uploading information module. It will be possible to access further search and upload facilities starting from this page.

At this page links to reporting search modules per country will be placed with the option to use either a country list or a map service.



At the bottom of the page there will be a link to the administrative part of the site.



For comfort of users the links to the other Catalogue sections will be duplicated.

When a user selects a particular country, the list of all reports registered per this topic will appear: national periodical issues and reporting on the international obligations.

The type of source (file or on-line resource) referred to by the link will be shown in the record about the registered document. If it is a document file (PDF, DOC, HTML, ZIP), the file size will be displayed by the file name.

Kazakhstan

Environment State and Protection

	National State of Environment of the Republic of Kazakhstan on 2003 Ministry of Environment Protection of the Republic of Kazakhstan, 2004 год. Direct link	RU	30.09.04
	National State of Environment of the Republic of Kazakhstan on 2003 Ministry of environmental protection of the Republic of Kazakhstan, 2003 File: KZ_NER2003_en.PDF (5.26MB)	EN	30.09.04

Pollution of the environment

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Water

	National Report on State and Using of Water Resources Ministry of Environment Protection of the Republic of Kazakhstan, 2004 год. File: KZ_WATER2003_RU.DOC (1.2MB)	RU	02.10.04
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Athmospheric a [Click to download file](#)

After selecting the menu option «reports per topic» the link to the national and international reports search page will be made.

- *Fish resources*
- *Land resources and soils*
- *Mineral resources*
- *Waste*
- *Health and environment*
- *Emergency situations*
- *Environmental statistics*
- *Sustainable development*

Reporting in connection with the participation to main international environmental agreements (MIEA), international organisations and programmes

1. *Convention for the protection of the Ozone Layer and Montreal protocol*
2. *Convention on the control of transboundary movements of hazardous wastes and their disposal*
3. *Stockholm Convention on Persistent Organic Pollutants*
4. *Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)*
5. *Convention of wetlands of international importance especially as wildlife habitat (Ramsar convention)*
6. *Convention on the conservation of migratory species of wild animals, and related agreements*
7. *Convention on biological diversity*
8. *Convention concerning the protection of the world cultural and natural heritage*

It is enough to select one of the mentioned topics and the complete list of the documents registered per topic will be shown on the search results page.

The menu “Document search” will include two search options:

- search per topic of periodical information issues,

EcoReporting

Search of the Report

Topic **EECCA Countries**

Regular information publications

Select topic

Reporting by international agreements

Select topic

State and Protection of Environment

Pollution of the Environment

Water

Atmospheric air

Climate change

Biodiversity

Timber resources

Fish resources

Land resources and soils

Mineral resources

- search per topic of reporting on the international obligations

Search of the Report

Topic **EECCA Countries**

Regular information publications

Select topic

Reporting by international agreements

Select topic

Land resources

Air pollution

EIA

Water

Industrial accidents

Marine environment

Public participations

Sustainable development

Environmental statistics

Forests

Various data

After selecting the topic and the country (or all countries), the user will be able to see a document/ a list of documents registered per selected topic.

BIODIVERSITY			
Armenia			
Azerbaijan			
National Strategy and Action Plan on Conservation and Sustainable Use of Biodiversity.	EN	30.10.04	
Ministry of Ecology and Natural Resources of Republic of Azerbaijan, 2004 File: NSAR_Bio2004_AZ.pdf 2.5MB			
Belarus			
National Strategy and Action Plan for the Conservation and Sustainable use of Biological Diversity in the Republic of Belarus, 2004	RU	02.11.04	
File: Biodiv2004_BY.pdf 1.5MB			
Georgia			

Information on international reports

This site section will contain convention, organization or programme titles, topics of submitted reporting, as well as the list of participating EECCA countries.

A User will be able to use this page as a link to the official site of the international convention or programme.

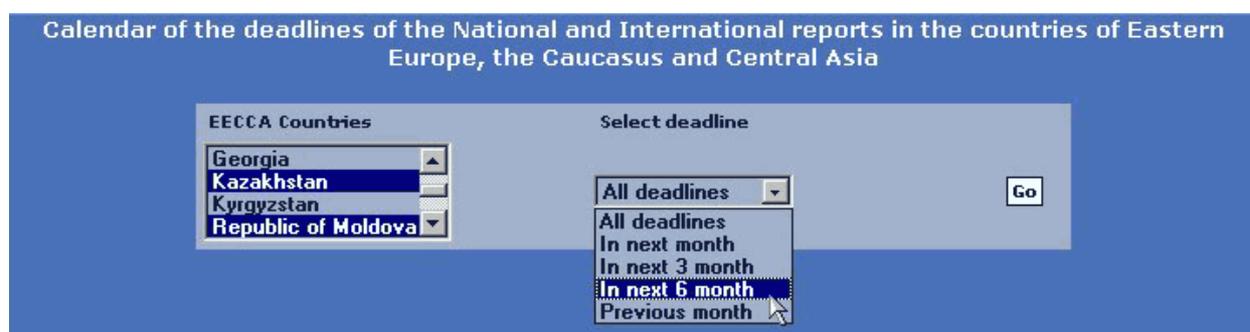
MIEA, organisation, or programme	Issue	Requested data or implementation reports	EECCA countries
Convention for the protection of the Ozone Layer and Montreal protocol	Ozone layer Chemicals	Data on production and use of ozone depleting substances (Chlorofluorocarbons, etc.)	Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Republic of Moldova, Russian Federation, Tajikistan, Turkmenistan, Ukraine, Uzbekistan
Convention on the control of transboundary movements of hazardous wastes and their disposal Basel Convention - http://www.basel.int/	Hazardous and other waste	Data on the production, import, export and transit of hazardous and other waste	Armenia, Azerbaijan, Belarus, Georgia, Kyrgyzstan, Republic of Moldova, Russian Federation, Turkmenistan, Ukraine, Uzbekistan
Stockholm Convention on Persistent Organic Pollutants	Chemicals Air pollution		Armenia, Azerbaijan, Belarus, Republic of Moldova
Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)	Flora and fauna	Data on international trade of fauna and flora species	Azerbaijan, Belarus, Georgia, Kazakhstan, Republic of Moldova, Russian Federation, Ukraine, Uzbekistan

Report publication deadlines

The link to the Calendar will be available from the EcoReporting Catalogue main menu:



With the Calendar service support it will be possible to screen information about time of national and international reports publication per country (countries) with the following search options: next month, next 3 or 6 months, the previous month or for the whole period.



The list of document titles, deadlines for report submission, the next deadlines and the links to these documents (if they have already been registered in the Catalogue) will appear as a result of such request.

Uzbekistan Calendar of the deadlines of reports			
Document	Deadline	Next DL	Link
National reports			
National State of Environment of the Republic of Uzbekistan on 2003	November 2004		
Environment Statistical Yearbook of the Republic of Uzbekistan on 2003	October 2004		
State report on Epidemic and Sanitary Conditions in the Republic of Uzbekistan on 2003	October 2004		Document
State Report on Surface Water Quality in the Republic of Uzbekistan on 2004	September 2005		
International reports			
Convention for the protection of the Ozone Layer and Montreal protocol	February 2005		
Convention on the control of transboundary movements of hazardous wastes and their disposal	November 2004		
Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)	31.10.2004	31.10.2005	
Convention on the conservation of migratory species of wild animals, and related agreements	30.06.2005	30.06.2008	
Convention on biological diversity	February 2006		
Convention concerning the protection of the world cultural and natural heritage			
UN Framework convention on climate change (and 1997 Kyoto Protocol)	15.04.2005		
United Nations Convention to Combat Desertification	31.05.2004	31.05.2005	Document
UN Commission on sustainable development (CSD)	2005/2006		
UN Statistical department (UNSD)	2005		
Forestry resources assessment programme: UNECE and FAO	31.12.2004		

Administrative section

Administrative section for National Administrators

The administrative section of the site will be used to register new documents and to change the content of already existing documents. To access this site section the user's login and password authorization will be required. One user name (login) and one password (pass) will be assigned by the UNECE administrator for each country (each national administrator).

Administration part

User name: adminUNECE

Password: *****

Go!

After login and pass successful authorization national administrators will be able to enter the administrative site section allowing to review/add/change the documents relevant to their countries.

At the right top corner of the screen the user name, country and personal IP-address (Internet-address of the user's personal computer) will be displayed. The list of all documents registered in the catalogue will be displayed below. The Administrator will be able to edit existing records or upload information about new documents.

Administration part

User: Petrov P.P.
Country: Russian Federation
IP: 195.42.165.170

Add new | Edit

Title: Rus Title: Eng

Author(s) Ru: Министерство природных ресурсов Российской Федер
Author(s) En: Ministry of Natural Resources of Russian Federation

Regular information publications Select topic

Reporting by international agreements Select topic

Language of document:

Русский

English

Français

Publisher: Place of publishing:

Quantity of pages: ISBN/ISSN

Annotation (Ru): Annotation (En):

Direct link

Upload file Browse...

Add Reset

It is necessary to select the “Add” option for new document registration. The above screen demonstrates the way the uploading of data on new documents will look.

The following fields will be compulsory for data entering:

- field “Name” – document title in Russian;
- field “Title” – document title in English;
- document topic;
- document language;
- Uploading the direct link to the file/on-line resource or file download to the UNECE server.

Other fields are optional.

Administrative section for the UNECE Administrator

Only the UNECE administrator will have access to this site section. The UNECE administrator will review all records in the catalogue, edit them or delete the outdated ones. The UNECE administrator will have access to all new data entered, review the detailed information on each entry, authorize the record’s publication or delete the entry.

The screenshot shows the 'Administration part' of the UNECE Administrator interface. At the top right, it displays 'User: UNECE Administrator' and 'IP: 62.229.8.90'. The main heading is 'New records'. Below this is a table with the following data:

Name	Country	Registration date			
Environment statistical book on 2003	Republic of Moldova	12.10.04	View	Approve	Delete
State report "State of water resources of Russian Federation on 2003"	Russian Federation	14.10.04	View	Approve	Delete
National report on Environment pollutions in Republic of Belarus on 2003	Belarus	15.10.04	View	Approve	Delete
National report on industrial emergencies and the natural calamities in the Ukraine on 2003	Ukraine	20.10.04	View	Approve	Delete

At the bottom of the interface, there are three navigation buttons: 'National reports', 'International reports', and 'New records'.

Upon the request for detailed information, a separate browser window will open, and it will contain all the uploaded (entered) data. It is also possible to change the record content if necessary.

The screenshot shows a web form for entering report metadata. The fields are as follows:

- Title (Ru): Статистический справочник по окружающей среде
- Title (En): Statistical book on environment, 2003
- Author(s) Ru: Министерство природных ресурсов Российской Федерации
- Author(s) En: Ministry of Natural Resources of Russian Federation
- Publication type: Regular information publications (dropdown: Environmental statistics) or Reporting by international agreements (dropdown: Select topic)
- Language of document: Русский, English, Français
- Publisher: [empty field] Publishing place: [empty field]
- Quantity of pages: [empty field] ISBN/ISSN: [empty field]
- Anotation: [empty text area] Anotation: [empty text area]
- Direct link: <http://www.president.gov.by/Minpriroda/>
- Upload file: [empty field] [Browse...]

Buttons: Edit, Close

The administrative section of the Catalogue will also contain a management module for report publication deadlines. This module will allow uploading new records or change/delete the existing ones. The module will be accessible to the UNECE administrator only.

United action plan table

TASK	DESCRIPTION	RESPONSIBLE	TIME-TABLE
To design the plan of national environmental reports for 2004-2007	The responsible countries' staff members prepare schedules of national environmental reports publication and submit them to the Secretariat	Eastern Europe, Caucasus and Central Asia countries national administrators	September 2004
EcoReporting Catalogue establishment	EcoReporting Catalogue will be located at the main site of the Working Group on Environmental Monitoring and Assessment	UNECE	September 2004
Catalogue operation in a test regime	Test uploading of records by national administrators, final software updating.	Eastern Europe, Caucasus and Central Asia countries national administrators, UNECE	from 15 till 30 September 2004
Site administration	UNECE administrator will verify the uploaded data and will authorize its uploading on the Catalogue. After authorization the information will be accessible for site users.	UNECE	Starting from 15 September 2004
Information uploading and registration	Reporting information uploading and registration by national administrators.	Eastern Europe, Caucasus and Central Asia countries national administrators	Starting from 30 September 2004

Annex II

OFFICIAL PERIODICALS (STATE OR NATIONAL REPORTS, COMPENDIUMS AND BULLETINS) ON THE ENVIRONMENT IN EECCA

	Armenia	Azerbaijan	Belarus	Georgia	Kazakhstan	Kyrgyzstan	Republic of Moldova	Russian Federation	Tajikistan	Turkmenistan	Ukraine	Uzbekistan
State and protection of the Environment <u>1/</u>	Ad hoc <u>2/</u>		Every 4 years <u>3/</u>	Annually	Ad hoc <u>4/</u>	Ad hoc	Annually	Annually	Ad hoc <u>5/</u>	Ad hoc <u>6/</u>	Every 2 years	Every 2 years
Environmental Pollution			Every 4 years					Annually <u>7/</u>				Annually
Atmospheric air	Monthly		Annually <u>8/</u>					Annually		Every 2 years		Annually
Biodiversity	Ad hoc <u>9/</u>	Ad hoc			Ad hoc <u>10/</u>			Ad hoc	Ad hoc <u>11/</u>	Ad hoc <u>12/</u>	Ad hoc <u>13/</u>	Every 2 years
Forests			Annually <u>14/</u>					Annually		Annually		
Fisheries			-					Ad hoc		-		
Land resources and soils			Annually <u>15/</u>					Ad hoc <u>16/</u>		Annually		Annually <u>17/</u>
Water	Monthly		Annually		Ad hoc			Ad hoc <u>18/</u>		Annually	Annually	Annually
Environmental Health <u>19/</u>			Annually			Monthly	Annually	Every 2 years		Annually	Annually	Annually
Emergencies			Annually <u>20/</u>				Annually	Ad hoc <u>21/</u>		Annually		Ad hoc
Environment statistics	Annually	Annually	Annually		Ad hoc	Annually	Annually	Annually	Annually	Annually <u>22/</u>	Annually	Annually
Other			Annually <u>23/</u>									

1/ In some countries such reports include all or many of the subjects listed below as well as climate change, waste and sustainable development for which no independent periodicals are published in EECCA countries.

2/ In 1994 and 2003.

3/ In addition, *State of the natural environment: Environmental bulletin* is published annually.

4/ The last one was published in 2000. The next one will be published in 2004.

- 5/ The last one was published in 1999.
- 6/ Published once in 1999.
- 7/ In addition, the results of monitoring of pesticides in natural objects are published annually.
- 8/ Pollution of atmospheric air in cities and industrial centres.
- 9/ Published once in 1999.
- 10/ Published once in 2002.
- 11/ Published once in 2003.
- 12/ Published once in 2002. Information on nature reserves is published annually.
- 13/ Issued twice as a separate publication.
- 14/ State Forestry Cadastre.
- 15/ State Land Cadastre.
- 16/ Published once in 2002. In addition, a report on soil pollution by toxic substances of industrial origin is published annually.
- 17/ Soil pollution.
- 18/ Published once in 2002. In addition, a report on the state of surface water ecosystems according to hydrobiological indicators is published annually.
- 19/ Report on the health and epidemiological situation.
- 20/ National report on the *Consequences of the Chernobyl Disaster*
- 21/ Published once in 2000.
- 22/ As part of the *Statistical Yearbook*.
- 23/ *National environmental monitoring system: Monitoring results.*