The International Meeting on Air Emissions Inventory and Atmospheric Air Pollution Monitoring and Modeling was held in Almaty during 8-10 October, 2003 in the Conference-Hall of Kazhydromet by the UN ECE Working Group on Environmental Monitoring in cooperation with Kazhydromet and under support of European Community (TACIS).

The Meeting was held within the joint project of UN ECE and European Environmental Agency «Support of activity of the UN ECE Working Group on Environmental Monitoring». One of the major tasks within this project is assessment of needs and development of recommendations to improve air pollution monitoring in Kazakhstan as well as countries of Eastern Europe, Caucasus, and Central Asia. Also it is aimed at improvement of data collection system and emissions reporting to meet obligations under the Convention on Long-range Transboundary Air Pollution (hereinafter – Convention).

More than 50 participants took part in the Meeting. They are representatives from the Ministry of Environmental Protection, Kazhydromet, Almaty city Department of Environment Protection, National Agency for Statistics, Space Research Institute, Kazakh National University, Climate Change Coordination Center, Kazakhstan Association of Nature Users, as well as representatives from the UN ECE, European Environmental Agency, international EMEP experts and experts from Azerbaijan Republic, Georgia, Kyrgyz Republic, Republic of Moldova, Tajikistan and Uzbekistan. List of participants is enclosed (Annex 1).
Welcome speeches were made by Mr. Bek-Bolat Eleushov, Ministry of Environmental Protection of the Republic of Kazakhstan, Mr. Tursynbek Kudekov, Kazhydromet and Mr. Bo Libert, UN ECE.

This Meeting was preceded by the National Workshops on Air Emissions Inventory and Atmospheric Air Pollution Monitoring and Modeling, held during 26-28 May, 2003 in Almaty.

The National Workshops allowed developing an extensive outline of the National Report on Air Emissions Inventory and Atmospheric Air Pollution Monitoring and Modeling in Kazakhstan within the Convention on Long-Range Transboundary Air Pollution.

Following the Workshops national experts in cooperation with international experts had developed the National Report, which was discussed at the International Meeting.

According to the Meeting Agenda (Annex 2) presentation of the Report on Air Emissions Inventory and Atmospheric Air Pollution Monitoring and Modeling in Kazakhstan was made by Ms. Galina Grigoryeva (Kazhydromet).

The Report consists of Introduction and two main parts: Part 1 – AIR EMISSIONS INVENTORY and Part 2 – ATMOSPHERIC AIR POLLUTION MONITORING AND MODELING. The Introduction provides:

- general information about the Republic of Kazakhstan;
- information on natural resources and structure of economy;
- structure of fuel consumption in Kazakhstan;
- information on Convention on Long-Range Transboundary Air Pollution, its Protocols and Cooperative Program for Monitoring and Evaluation of the Long-Range Transmission of Air Pollutants in Europe;
- information on EMEP International Centers: Chemical Coordinating Center, Meteorological Synthesizing - East, Meteorological Synthesizing Center – West and Center for Integrated Assessment Modeling.

The structure of the two main parts of the Report is built following the same principle:

1. Analysis of existing situation on air emissions inventory and atmospheric air pollution monitoring and modeling in the Republic of Kazakhstan;
2. International requirements to be met within the Convention on Long-Range Transboundary Air Pollution.
3. Recommendations for Kazakhstan on air emissions inventory and atmospheric air pollution monitoring and modeling in compliance with EMEP requirements.

Part 1 – AIR EMISSIONS INVENTORY

Ms. Maira Amirhanova (Statistics Agency of the Republic of Kazakhstan) presented information on legal and regulatory base for existing system of air emissions inventory and state reporting in the field of atmospheric air protection in the Republic of Kazakhstan. Ms. Valentina Massalova (Kazakh Agency of Applied Ecology) described the methods to fill-in a state statistical reporting form 2-tp (air) and methods on air emissions inventory in Kazakhstan. Ms. Irina Eserkepova (Kazakh Research Institute of Environmental Monitoring and Climate) presented a methodology for air emissions inventory ((EMEP/CORINAIR Guidebook, Guidelines for reporting, needs assessment, air quality control/data validation, scenarios of emissions) as well as recommendations on air emissions inventory in Kazakhstan in compliance with EMEP requirements.
Experts from six countries (Azerbaijan Republic, Georgia, Kyrgyz Republic, Republic of Moldova, Tajikistan, Uzbekistan) presented information on the system of air emissions inventory in their countries.

Part 2 – ATMOSPHERIC AIR POLLUTION MONITORING AND MODELING

Mr. Ermek Murtazin (Kazhydromet) made a presentation on the state of atmospheric air pollution monitoring in Kazakhstan – observation network, program of observations and measurements on the state of atmospheric air in populated areas of Kazakhstan, chemical composition of precipitation on the territory of Kazakhstan and at “Borovoe” background monitoring station, as well as the state of modeling. The presentation covered EMEP measurements program and highlighted problems as to ensure EMEP measurements program in Kazakhstan. The main directions were identified to ensure functioning of EMEP monitoring program in Kazakhstan. Priority tasks to develop EMEP observation and measurement program on the national level were tentatively defined.

Practically all the participants of the Meeting took part in discussion of the above-mentioned issues. Special attention in the discussion was given to the recommendations on air emissions inventory and atmospheric air pollution monitoring and modeling for Kazakhstan and countries of Eastern Europe, Caucasus and Central Asia.

These recommendations may be used by the countries of Eastern Europe, Caucasus and Central Asia under development of their national systems of emissions inventory and systems of atmospheric air pollution monitoring and modeling as to complying with commitments within the Convention on Long-Range Transboundary Air Pollution.
UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

UN ECE Working Group on Environmental Monitoring

in cooperation with KAZHYDROMET

under the financial support of European Community

INTERNATIONAL MEETING
ON AIR EMISSIONS INVENTORY AND ATMOSPHERIC
AIR POLLUTION MONITORING AND MODELING

(Almaty, 8-10 October 2003)

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UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

UN ECE Working Group on Environmental Monitoring

in cooperation with KAZHYDROMET

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International Meeting on Air Emissions Inventory and Atmospheric Air Pollution Monitoring and Modeling

Almaty, 8-10 October 2003

Agenda

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9 October, 2003
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<th>Time</th>
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<td>12:00 - 12:30</td>
<td>Discussion of the Recommendations for Emissions Inventory in EECCA Countries</td>
<td>Mr Sergey Dutchak, Director of the EMEP Meteorological Synthesizing Center-East</td>
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<td>Mr Knut Breivik, EMEP Coordinate Chemical Center, Norway Institute for Air Research (NILU).</td>
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<td>Mr Sergey Kakareka, Institute for Problems of Natural Resources Use &amp; Ecology under National Academy</td>
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<td>Sciences of Belarus, National Emission Expert to EMEP</td>
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<tr>
<td>12:30 – 12:50</td>
<td>Discussion of the Recommendations for Emissions Inventory in EECCA Countries</td>
<td>All the participants</td>
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<tr>
<td>12:50 – 13:00</td>
<td>Summing-up of the discussion on the Recommendations for Emissions Inventory in EECCA Countries</td>
<td>Ms Irina Eserkepova, Deputy Director of the Kazakh Research Institute of Environmental Monitoring and</td>
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<td>13:00 – 15:00</td>
<td>Lunch</td>
<td>Mr Roel van Aalst, Manager of the Project on Air Quality of the European Environmental Agency.</td>
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<td>15:00 – 15:20</td>
<td>Air Quality Reporting and Information Exchange in Europe.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<td>15:20 – 15:35</td>
<td>Part II. Section 1. Environment Pollution Monitoring and Modeling in Kazakhstan.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<td>15:35 – 15:50</td>
<td>Часть II. Section 2. EMEP Measurement Program</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<tr>
<td>15:50 – 16:00</td>
<td>Part II. Section 3. Problems in the EMEP Monitoring Program Implementation in Kazakhstan.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<tr>
<td>16:00 – 16:30</td>
<td>Coffee break</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<tr>
<td>16:30 – 16:40</td>
<td>Part II. Section 4. Main Priorities for Development of the EMEP Monitoring Program Elements in Kazakhstan.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<td>16:40 - 17:00</td>
<td>Part II. Section 5. Recommendations for Kazakhstan on Air Pollution Monitoring and Modeling According to the EMEP Requirements.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet.</td>
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<tr>
<td>Time</td>
<td>Session</td>
<td>Speaker, Title</td>
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<td>10:00 – 10:10</td>
<td>Presentation of a new project for the next year</td>
<td><strong>Mr Bo Libert</strong>, UN ECE</td>
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<tr>
<td>10:10 - 10:40</td>
<td>Discussion on Part II of the Report. (continuation)</td>
<td>All the participants</td>
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<tr>
<td>10:40 – 10:50</td>
<td>Summing-up of the discussion on Part II of the Report.</td>
<td><strong>Mr Ermek Murtazin</strong>, Director of Environmental Pollution Monitoring Center of Kazhydromet</td>
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<tr>
<td>10:50 - 11:10</td>
<td>Air Quality Management in Europe: Urban Air Pollution.</td>
<td><strong>Mr Roel van Aalst</strong>, Manager of the Project on Air Quality by European Environment Agency</td>
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<td>11:10 - 11:30</td>
<td>Coffee break</td>
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<td>11:30 – 11:40</td>
<td>Air Pollution Monitoring and Modeling in the Azerbaijan Republic.</td>
<td><strong>Mr Muslimov Mammadgusein</strong> - Chief of Department on Hydrometeorology and Environment Monitoring of Ministry of Ecology and Natural Resources of the Azerbaijan Republic</td>
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<td>11:40 - 11:50</td>
<td>Air Pollution Monitoring and Modeling in Georgia.</td>
<td><strong>Mr Konstantine Kilasonia</strong> – Senior specialist, Main Department of Air Protection, Ministry of Environment of Georgia</td>
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<td>11:50 – 12:00</td>
<td>Air Pollution Monitoring and Modeling in the Kyrgyz Republic.</td>
<td><strong>Mr Turarbek Sadykbekov</strong> – Chief of the Environmental Monitoring Division, Department of Ecology and Use of Nature of Ministry of Environment and Emergencies of the Kyrgyz Republic</td>
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<td>12:00 – 12:10</td>
<td>Air Pollution Monitoring and Modeling in the Moldova Republic.</td>
<td><strong>Mr Konstantin Filatov</strong> – Deputy Head of Department for Water Resources and Atmospheric Air of State Ecological Inspectorate, Ministry of Ecology, Construction and Territorial Development of the Moldova Republic</td>
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<tr>
<td>Time</td>
<td>Event</td>
<td>Speaker(s)</td>
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<td>12:20 – 12:30</td>
<td>Air Pollution Monitoring and Modeling in the Republic of Tajikistan.</td>
<td>Mr Hamidzhon Rasulov, Chief of Anti-hail Service of Tajikistan.</td>
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<td>12:30 – 13:00</td>
<td>Recommendations for Air Pollution Monitoring and Modeling in EECCA Countries.</td>
<td>Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet</td>
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<tr>
<td>13:00 – 15:00</td>
<td>Lunch</td>
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</table>
| 15:00 – 15:20   | Discussion on the Recommendations for Air Pollution Monitoring and Modeling in EECCA Countries | Mr Sergey Dutchak, Director of the EMEP Meteorological Synthesizing Center-East  
Mr Knut Breivik, EMEP Coordinate Chemical Center Norway Institute of Air Research (NILU),  
Mr Sergey Kakareka, Institute for Problems of Natural Resources Use & Ecology, National Academy Sciences of Belarus, National Emission Expert to EMEP |
| 15:20 - 15:40   | Discussion on the Recommendations for Air Pollution Monitoring and Modeling in EECCA Countries | All the participants |
| 15:40 – 16:00   | Summing-up of the discussion on the Recommendations for Air Pollution Monitoring and Modeling in EECCA Countries | Mr Ermek Murtazin, Director of Environmental Pollution Monitoring Center of Kazhydromet |
| 16:00 – 16:30   | Coffee break                                                        |                                                                             |
| 16:30 – 17:00   | Closing of the Meeting                                              | Mr Tursynbek Kudekov, Director-General of Kazhydromet,  
Mr Bo Libert and Mr Yaroslav Bulych, UN ECE. |