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**Development of Water Information Network in
EECCA countries using as an example and on the
basis of the Central Asian Regional Water
Information System “CAREWIB”**

Progress report 2008-2010

Tashkent
December 2010

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Summary

Given project is aimed to improve the main products of the CAREWIB Project¹ - the portal and the information system - by involving the water community from the EECCA countries into the established network and by exchanging information and experience.

Main achievements of the project:

- Established network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia (EECCA NWO), the membership of which includes 60 institutions (by 1.12.2010). The Network is an informative and professional association of water professionals, water users, and other stakeholders to exchange opinions, experience and information on various aspects of water-related activities. The membership of the Network is voluntary and based on professional unity and mutual understanding, with no fees.
- Focal (contact) points established to support Network's activity:
 - Russia – Center for Water Inventory and Cadastre,
 - Byelorussia – Central Research Institute for multipurpose water use,
 - Ukraine – Seversk-Donets BAIS,
 - Central Asia – SIC ICWC,
 - In South Caucasus countries - REC-Caucasus.
- The main tool of information dissemination is the web-site (www.eecca-water.net) – a unique “knowledge hub” of the network that accumulates and informs about best practices and intellectual products of the Network's members.
- Within the framework of the project, in order to back the Network's activity, the following events were organized:
 - Kick-off workshop (Moscow, December 2008)
 - Work meeting, with participation of South Caucasus countries (Tashkent, April 2009)
 - Network development review workshop and Constitutive conference (Moscow, May 2010)
- NWO EECCA was presented at a number of prestigious international forums, including:
 - 5th Asian Regional Conference of the International Commission on Irrigation and Drainage (ICID) (Delhi, India, December 2009),

¹ Central Asia Regional Water Information Base Project (CAREWIB) aims at the improvement of information provision in water and environmental sectors in Central Asian countries in order to promote transparency openness and foster public support for rational natural resources use.

The project is implemented by SIC ICWC in Tashkent in collaboration with UNECE/SPECA and UNEP/GRID-Arendal in Geneva. The project is supported by the Swiss Agency for Development and Cooperation (SDC). More information on www.cawater-info.net.

- 8th General Assembly of the International Network of Basin Organizations (Dakar, Senegal, January 2010),
- International scientific and research conference dedicated to the 100th anniversary of the land reclamation science in Russia and the 85th anniversary of the All-Russian Hydraulic Engineering and Land Reclamation Research Institute (VNIIGiM) (Moscow, Russia, November 2009),
- International Forum «Drop of water is a nugget of gold» (Ashgabat, Turkmenistan, April 2010),
- INBO European Conference for the Implementation of the European Water Framework Directive (Megeve, France, September 22-24, 2010).
- The Regional Coordinator of GWP CACENA V.Sokolov was elected to the INBO Liaison Bureau as a representative of EECCA NWO. This gives a hope of interest and support from the work water community.
- During a work meeting in Tashkent (April 8-9, 2010), the participants from Uzbekistan, Russia and South Caucasus countries exchanged their experience and considered the possibility of developing a regional portal for exchanging information on water resources in South Caucasus, based on experience of the Central Asian Regional water and environmental portal and the Regional information system on water and land use in the Aral Sea basin - CAREWIB.
- The following publications were issued:
 - Integrated solution of water and land use problems in the EECCA region (collection of scientific papers)
 - Ecological and water and land use problems in the EECCA region (collection of scientific papers)
 - Guide on handling the web-site of the network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia
 - Network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia (leaflet)
- EECCA NWO is a partner of the World Water Council and INBO in activities related to preparation to the 6th World Water Forum under the European process

Taking into account that the Network is a non-profit association, the donor support is needed for its future activities.

Introduction

Water resources management in transboundary river basins involves multifaceted interactions among various stakeholders at all levels of water management hierarchy and requires a shared vision of sustainable water resources management and development in Central Asia.

Access to data and information exchange are the key instruments to develop effective and efficient regional cooperation; however, lack of information on water and land use and socio-economic situation in the Aral Sea Basin has been an obstacle for making adequate short- and long-term decisions on transboundary water resources management and on implementation of relevant water policies.

Recognizing a need for cooperation on such issues as water allocation in the Aral Sea basin, an interstate agreement was signed in 1992 to establish the Interstate Commission for Water Coordination (ICWC) in charge of the regional water resources management within the Aral Sea basin. The Scientific-Information Centre (SIC ICWC) was subsequently founded as an ICWC executive body to coordinate regional water management cooperation and improve information exchange among the ICWC member states.

Despite the complexity of the current socio-economic situation in the Central Asian countries, water resources use and management are undergoing positive changes at both on-farm and irrigation system/basin levels and adapt to current developments and meet multifaceted challenges of the transition to participatory water management and market economy. By enhancing information exchange in the water sector, the CAREWIB Project contributes to this development.

Thanks to the good will and support of ICWC members, the Portal and Information System developed during the project Phase-1 offer unique information products that have no analogues in Central Asia.

CAREWIB Project, Phase-2 is aimed at further improving information support of the water and environmental sectors in Central Asia as started under the Phase-1.

The objective of this project is improving main products of the CAREWIB project, such as the portal and information system through the involvement of Russian-speaking water community in the already established and maintained network and the exchange of information and accumulated experience.

Water sector and land reclamation in the EECCA region go through a period of unstable development causing various difficulties and sometimes unexpected results. This is typical for both the countries of the former Soviet Union and the Eastern Europe countries that previously have been considered as a bastion of market economy development (Poland, Hungary, Romania), with enough high economic potential and per capita national income. They also were found unprepared to the present period like all the CIS countries, including such former leaders as Russia, Ukraine and others.

Here, the following common tendencies are notable:

- More than two-fold drop of unit GNP – from 3088 \$/capita in 1985 down to 1086 \$/capita in 2008 (World Bank's data);
- Dramatic reduction of state subsidies for water sector and land reclamation;
- Loss of integrity by the water sector as an independent economic sector (excluding some countries), and continued transformations: water sector as a part of agriculture or environmental management;
- Transfer of water management at lower water-use levels to water users themselves;
- Growing water departmentalism;
- Loss of general water productivity;
- Dramatic reduction of annual operational costs from 60 \$/ha (the 1990-es) to 8-10 \$/ha (present) of irrigated land;
- Abrupt reduction in irrigated areas;
- No accounting and reporting on water use.

What can we oppose against those tendencies?

- Demonstration of water professionalism and the sainthood of water, return to old traditions;
- Water and ethics;
- Water and education;
- Forecasts of the future and their interpretation;
- Propaganda of best practices;
- Exchange of information;
- All-round adoption of IWRM.

The development of EECCA NWO will be oriented exactly towards the above listed directions.

Information is exchanged on the following topics:

- State of water resources (quantity and quality);
- Integrated water management and use;
- Quality and prospects of the use of transboundary water bodies;
- Water pollution;
- Development of e-database for water quality;
- Water-protection practices in implementing integrated management;
- Data reliability in information systems;
- Hydrological and water modeling;
- Ecologically safe water use in transboundary systems;
- Developing water metering and regulation system at river basin level;
- Role of water resources in economic development;
- Information on projects and their results;
- Information technologies;
- Education, life-long training;
- Development of information systems
- Hydrogeological information, climatic data;
- Water strategy;
- Regulations and legal documents.

Project aims and objectives

1. Facilitating exchange of information and experience between Central Asia, Russia, Ukraine, and Caucasus in water and environmental areas through the portal CAWater-Info.
2. Justifying expediency to establish a network of information centers in Post-Soviet space.
3. Demonstrating principles and transferring the methodology of CAREWIB to water-management organizations in Russia, Ukraine, Byelorussia, Kazakhstan, Moldova, Georgia, Armenia, and Azerbaijan in order to improve exchange of information on shared water.
4. Building capacity of Central Asian experts, who are responsible for development and maintenance of IS, on the basis of experience in Russia, Caucasus, and Ukraine.

Project activity over the reporting period

During the reporting period, the following work was completed:

A workshop was held on 11-12 December 2008 under support of the Moscow State University of Environmental Engineering. The participants were familiarized with the INBO activity, the experience of information system development in water sector - in Central Asia (regional system), Russia, Ukraine, Byelorussia, Azerbaijan, Kazakhstan, and Armenia - as well as with the activities of water-management organizations in these countries.



Quite convincing technological and communication achievements of the participants were demonstrated at the workshop.



Center of Scientific-and-Engineering Information of “Meliovodstroy” at the Ministry of Agriculture, Russian Federation (Director N.I.Tupikin) in the scientific-technical journal “Land Reclamation Issues”, No.3-4, 2008 presented results of the Congress of Russian watermen and irrigation engineers held in Moscow and chaired by N.A.Sukhoy. The Congress has adopted an address to the Russian President D.A.Medvediev. The Center’s publications contained an interesting proposal on the development of VNIIG&M Institute’s ideas (D.T.Zuzina) put forward in the fifties of the last century on organization of the so-called periodical irrigation, which combined and planned regular irrigation and rainfed farming, depending on precipitation in steppe zone. The main point of this method is to determine for each farm the shares of rainfed practices and of regular irrigation, depending on total rainfall.

FSUE Center of Russian Registry of Hydrostructures and State Water Cadastre of the Federal Water Agency (Center of Registry and Cadastre, Director S.Ye.Bednaruk) conducts systematic monitoring and forecasting of water availability in Russia. According to its information, increased water availability is kept in Volzhsky-Kamsk cascade of reservoirs, in Novosibirsk reservoir. The Center’s web-site gives free access to unique information products, such as Russian registry of hydrostructures, Information system “Russia’s rivers”, Hydroeconomic zoning in the Russian Federation”.

Information Center “NIA Prirody” (Deputy Director V.A.Omel’yanenko) pays serious attention in its publications to water resources problem. At present, the Nature and Resource Gazette holds a heated discussion on expediency of V.Putin’s initiative put forward in 2007 about creation of transboundary system between the Caspian Sea and the Black Sea, which was supported actively by the President of Kazakhstan N.Nazarbayev. The initiative was evoked by insufficient capacity of the Volga-Don canal. The navigation canal project is put forward against the alternative of canal “Volga-Don-2”, which would pass parallel to the

existing canal. This alternative is advocated by Rostov, Astrakhan, and Volgograd provinces, while Stavropol Territory, Kalmykiya, Dagestan, and Kazakhstan lobby construction of a new canal. Opinions are divided and a fight, which is as strong as previous one regarding the canal connecting Siberia and Central Asia, takes place. The Russia's Ministry of Transport (I.Levitin) is for the idea of large canal, while the Director of Federal Water Agency (R.Khamitov) is against this idea. Fisheries Agency opposes Volga-Don-2. The Director of the Institute of Water Problems Prof. V.I.Danilov-Danilyan is against the both options. In short, even address of the former Mayor of Moscow Yu.Luzhkov regarding withdrawal of a share of Siberian river flow, fist of all, for own needs is aside, while disputes on the Eurasian canal are very heated!

Institute of Water Problems at the Russia's Academy of Sciences has published an interesting report on water availability of agriculture in Russia (A.P.Demin). In 1980-1992, the quantity of water used in agriculture was 37-41 km³, whereas since 1993, it has started to decrease, and by 2004 fell down to 21 km³, as well as freshwater consumption decreased from 25-29 km³ to 11.3 km³.

Since 1970, irrigated areas in Russia have extended from 1.9 Mha to 6.1 Mha but in 2000, according to official data, the irrigated area was reduced to 4.5 Mha. Actually, irrigated land area decreased to 2.4 Mha. As a result, irrigation water use decreased from 20.3 km³ in 1985 to 16.4 km³ in 1990 and down to 7.7 km³ in 2005. Accordingly, withdrawals for agricultural needs were reduced from 4.2 km³ to 0.74 km³. In the recent years, water use efficiency indicator has improved slightly - agricultural output (in prices of the year 1983) increased from 1.8 roubles/m³ in 1995 to 3.5 roubles/m³ in 2005 per 1 m³ of water used. It is notable that production in irrigated land remains profitable and is 3-5 times higher than in rainfed area. Moreover, all-round reconstruction of irrigated lands has started: in 2002 - 2005, 110 thousand ha were reclaimed. In 2006-2010, it is planned to cover 160 thousand ha.

Ukraine has kept water management under responsibility of the Ukraine's State Committee for Water Resources at the head of V.A.Stashuk. Deputy Head of Division at the Committee O.Lisyuk in his presentation "Basin geo-information system for water management and monitoring along large rivers in Ukraine" demonstrated information systems developed for Ukrainian water resources management. An excellent example of basin management is the activity of Seversko-Donetsk basin water management authority.

The development of information system in Ukraine, as well as in Byelorussia runs in line with the provisions of the European Water Directive.

The major result of the workshop is the agreement of all concerned parties on the establishment of a network of Russian-speaking water organizations under umbrella of INBO. Membership in this network is voluntary, which is based on professional community and mutual understanding and organized in form of exchange of opinions, experience, and information on various aspects of water-management activities, without any fees.

Focal (contact) points were established in the Network's member countries:

- Russia – Center for Water Inventory and Cadastre
- Byelorussia – Central Research Institute for multipurpose water use
- Ukraine – Seversk-Donets BAIS
- Central Asia – SIC ICWC

- In South Caucasus countries, the information is to be disseminated by REC-Caucasus.

On the basis of CMS, the web-site (www.eecca-water.net) was developed for the support of the Network of water (basin) organizations in EECCA countries. Information is inputted regularly on the site (information of the network's members and from open Internet sources). The following sections are open:

- News
- Meetings (*information about workshops, conferences, work meetings*)
- Articles
- Publications (*information about published books, brochures, monographs, etc.*)
- Periodicals (*information about journals and newspapers*)
- Information products
- Water sector history
- Network members' profiles



General view of the EECCA NWO web-site

The EECCA NWO was presented at the International scientific and research conference dedicated to the 100th anniversary of the land reclamation science in Russia and the 85th anniversary of the All-Russian Hydraulic Engineering and Land Reclamation Research Institute (VNIIGiM) named by A.N.Kostyakov (November 24-25, 2009, Moscow, Russia). The participants appreciated highly the activity of SIC ICWC, particularly under the projects such as CAREWIB and IWRM-Fergana and expressed positive opinions regarding the portal CAWater-Info and the useful results of IWRM implementation in the region².

The EECCA NWO activity was viewed and supported also at the 5th Asian Regional Conference of the International Commission on Irrigation and Drainage (ICID) and the 60th

² See detailed conference report on <http://sic.icwc-aral.uz/releases/rus/169.htm>

ICID Executive Committee meeting (December 6-12, 2009, Delhi, India). The Central Asian delegation took part in the session of the work team on climate change, had a meeting with the ICID President and the General Secretary, and participated in the special work team “ST Aral”, where they discussed work results together with foreign colleagues. The meeting underlined the great importance of ICWC work in developing the information system CAREWIB, training activity, as well as the success in IWRM development and irrigation system automation.

The participants of this work team meeting have prepared a proposal on transformation of “ST Aral” into the work team “Irrigation and drainage in the countries of socio-economic transformation” due to expiry of the term of the former. The proposal was reported by Prof. V.A.Dukhovny at the meeting of permanent committee on strategic planning. Further on, the proposal was incorporated into a report to ICID Executive Council and approved. Prof. P.I.Kovalenko, ICID Vice-president was elected as the Chairman of the work team, while Honorable ICID Vice-president Prof. V.A.Dukhovny as his Deputy Chairman.³

The EECCA NWO was presented at the 8th General Assembly of International Network of Basin Organizations (INBO) (Dakar, Senegal, January 21-23, 2010) and widely supported. The regional coordinator of CWP CACENA V.Sokolov was elected to the INBO Liaison Bureau as a representative of the Russian-speaking Network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia⁴.



Special session on the Aral Sea basin «Water and food security in Central Asia» during the 5th Asian Regional Conference of ICID

³ See report on 5th Asian Regional Conference on <http://sic.icwc-aral.uz/releases/rus/170.htm>

⁴ See report on 8th GA INBO on <http://sic.icwc-aral.uz/releases/rus/173.htm>

«Dakar Declaration» and GA Resolution are available on www.cawater-info.net/int_org/inbo/activity.htm



Plenary session of the INBO General Assembly

The NWO EECCA was presented as well at the International Forum “Drop of water is a nugget of gold” (Ashgabad, Turkmenistan, April 2-4, 2010), where representatives from Russia, Ukraine, Byelorussia, Turkey, Israel, and Central Asia participated. The Project manager I.Beglov made presentation of the portal CAWater-Info and of EECCA NWO.

Information about staff of water-management organizations in Central Asia, Russia, Byelorussia, Ukraine, Moldova, Azerbaijan, Armenia, and Georgia was inputted into the database “Who is who in the water sector”. The database is available on-line both in Russian and English (www.cawater-info.net/whoiswho/).

The database “Water atlas” contains information about water organizations in the EECCA countries. The database is available on-line both in Russian and English (www.cawater-info.net/atlas/).

A work meeting was held with representatives from Uzbekistan, Russia and South Caucasus in the city of Tashkent in April 8-9, 2010. The participants exchanged their expertise and discussed a possibility of creating a regional portal for exchange of information on water resources of South Caucasus based on experience of the Central Asia regional water-environmental portal and the regional information system on water and land resources in the Aral Sea basin – CAREWIB.

The following presentations were made during the meeting:

- Uzbekistan on the way of overcoming the Aral Sea crisis (Prof. V.A.Dukhovny, SIC ICWC)
- Central Asian water and environmental knowledge portal - CAWater-Info as a striking example of the regional cooperation (I. Beglov, SIC ICWC)
- The Russian-speaking Network of Water Organizations (I. Beglov, SIC ICWC)
- Demonstrating the IS CAREWIB capabilities (D. Sorokin, SIC ICWC)
- The analytical tools of CAREWIB (A. Sorokin, SIC ICWC)

- State of and needs for water-environmental information in Azerbaijan (A. Yusifova, Ministry of environment and natural resources, Azerbaijan Republic)
- Water resources management in Armenia (G. Zakaryan, Ministry of Environmental Conservation, Water Management Agency, Republic of Armenia)
- The information system of the Armenia's State Water Cadastre (V. Tonoyan, Republic of Armenia)
- Review of water-environmental information and its exchange in Georgia (Z. Djincharadze, Zoi Environment Network, Tbilisi office, Georgia)
- Experience in water-related information integration and the information exchange in South Caucasus (Z. Djincharadze, Zoi Environment Network, Tbilisi office, Georgia)
- The regional initiatives towards the sustainable development of REC-Caucasus (M. Shukurova, REC-Caucasus, Georgia)
- State of and needs for water-environmental information in the Russian Federation (N. Rudnitskaya, FSUE «Russian water use and protection research institute»)



Work meeting with representatives of Uzbekistan, Russia and South Caucasus

The review workshop of the Network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia countries (EECCA NWO) was held in Moscow on the 31st of May, 2010 under support of the Moscow State University of Environmental Engineering. 50 representatives of research, design, manufacturing and information institutions from Russia, Ukraine, Byelorussia, Moldova, Uzbekistan, Kazakhstan, Kyrgyzstan, Tajikistan, and Azerbaijan took part in the workshop.

The participants were welcomed by:

- Deputy Director of the Federal Water Resources Agency (Russian Federation) Sergey Natal'tchuk
- Rector of the Moscow State University of Environmental Engineering Prof. Dmitry Kozlov
- President of JSC “Vodstroy” Polad Polad-zadeh
- Head of Land Reclamation Department at the Ministry of Agriculture of the Russian Federation A.Petrov

Presentations were made by:

- Prof. V.Dykhovny (SIC ICWC, Uzbekistan) – Current water sector trends in EECCA countries
- Prof. P.Kovalenko (UkrNIIGiM, Ukraine) – Sustainable operation of irrigation and drainage systems under socio-economic transformation in East Europe countries
- V.Sokolov (GWP CACENA, Uzbekistan) – International Network of Basin Organizations and our participation in this Network
- I.Beglov (SIC ICWC, Uzbekistan) – Status of information exchange and the development of NWO EECCA
- Prof. M.Kalinin (International State Ecological University, Byelorussia) – The Byelorussian contribution to international cooperation on water resources improvement
- S.Trophantchuk (Seversk-Donets Basin Department, Ukraine) – Experience of integrated water resources management and development of water network and data exchange on water resources in the Seversk Donets river basin
- S.Tanatbayeva (Water Resources Committee, Kazakhstan) – Development of water sector in the Republic of Kazakhstan
- N.Mamataliev (Kyrgyz branch of SIC ICWC, Kyrgyzstan) - Development of water sector in the Kyrgyz Republic
- Prof. T.Karlykhanov (Executive Committee of IFAS, Kazakhstan) – Review of a network of water organizations in Central Asia
- G.Stulina (SIC ICWC, Uzbekistan) – Gender and water
- Kh.Mukhitdinov (ICWC Secretariat, Tajikistan) – Institutional development for the integrated water resources management in Tajikistan
- A.Mamedov (Institute “Sukanal”, Azerbaijan) – Challenges and prospects of water management in Azerbaijan
- Prof. M.Korobochkin (State University of Land Management, Russia) – Automated system for optimal design of vertical leveling
- I.Trombitskiy (Eco-Tiras, Moldova)
- N.Prokhorova (RosNIIVH, Russia)
- Ye.Finoshina (Meliovodinform, Russia)

The delegation of the EECCA NWO was invited by the INBO Secretary General Jean-Francois Donzier to a regular INBO European Conference that was held in South France in the city of Megeve. The delegation was comprised of:

- Academician Polad-zadeh P.A. – Network President;
- Prof. Dukhovny V.A. – Network Executive Secretary;

Board of Directors' members:

- Prof. Prokhorova N.B. – Director, Russian Research Institute of Multipurpose Use and Protection of Water Resources, Russian Federation
- Prof. Kovalenko P.I. – Director of Institute of Hydraulic Engineering and Land Reclamation, Ukraine
- Prof. Kalinin M.Yu. – member of the Network's Board of Directors, Byelorussia
- Prof. Karlykhanov T. – member of EC IFAS, Kazakhstan
- Bednaruk S.Ye. – Director of Center for Russian Waterworks Inventory and State Water Cadastre, Russian Federation.



The Conference was held simultaneously with the 3rd International Congress on «New water governance in mountains is needed to face climate change!» and involved discussion of the European INBO with the representatives of all regional INBO.

More than 600 people, including 177 members of “Europe-INBO” participated at the Conference.

The participants were welcomed by the Mr. Jean-Paul Amoudry, Senator, President of the Alpine Economic Company of Upper Savoy, the presidents of the several water agencies from France, Spain, and Portugal, the Commissioner to the protection against floods at the Hungarian Ministry for Rural Development, Mr. Jean Claude Vial, Deputy Director of Water and Biodiversity, French Ministry of Ecology, Energy, Sustainable Development and the Sea, and Mrs. Danielle Mitterrand, President of the Association «France Libertés» and spouse of

the late President of France Mitterrand. Prof. Dukhovny V.A. read out the welcome speech of Mr. Polad-Zadeh P.A. on behalf of the newly established Network.

The participants from European countries and from other regional networks of INBO have presented their efforts in improving their water sectors in compliance with the European Water Framework Directive (WFD). Particular attention was paid to a need for consideration of permanent impact of climate change.

A special meeting of non-European membership of INBO was dedicated, mainly, to reports by EECCA NWO. The meeting was chaired by Sergey Bednaruk, Director of Center for Russian Waterworks Inventory and State Water Cadastre at the Russian Federal Agency for Water Resources.

Prof. Dukhovny V.A. made an introductory presentation on goals, objectives, and approaches to addressing of regional problems. He also demonstrated results of the Network's activity over one and a half year from its establishment. Prof. Dukhovny also expressed his thanks to the UN European Economic Commission (UNECE) and the Swiss Development and Cooperation Agency (SDC) for financial and organizational support.



Prof. Kovalenko P.I. in his report focused on the problems in the Ukrainian water sector, the poor public and stakeholder participation in water management and use, and the lack of funding for modernization and reconstruction of irrigation systems. The country has 7 international partners, with whom treaties were signed. The partnership between Russia and Ukraine on the North Donets river basin is a good example of cooperation, where water management follows to WFD scenarios. The automation of the control system for Dnieper river between Ukraine and Byelorussia and the remote flood control system along the Tisza river (Hungary) are under development and a program for radical improvement of national water management is planned.

Byelorussia, as mentioned Prof. M.Yu.Kalinin in his report, has its own transboundary problems on five large rivers. Conclusion of bilateral agreement with Poland, Russia, Lithuania, and Latvia is delayed due to conditions over which the country has no control. The meetings of international work groups on transboundary watercourses are irregular. This year the National Government has approved the National Water Use Strategy. In 2009, the Government started to develop a plan for integrated water use and management in the Niemen river basin. Moreover, the inventory of national water bodies is close to completion. Besides, he underlined a need for transfer from administrative boundary-based approach to basin water management.



Although Russia is one of water-rich countries, plenty of small and medium-size rivers creates local water deficits. An interesting report by N.B.Prokhorova demonstrated application of result-oriented approaches in basin management through the Tuzlov river case-study in Rostov province. Moreover, principles applied in the management are based on the development of basin management plans that are similar to WFD plans and involve basin approach, minimized negative effect, water charges, and public participation.

A very interesting report on adoption of basin approach in the Russian Federation was presented by S.Bednaruk. In 2006, the hydro-environmental and hydrographic zoning of the country was made. It included 20 basin districts, 66 hydrographic units, 85 sub-basins, and 133 unique hydrographic units. Using the Lena river case-study, he showed adoption of this approach in practices of water-management agencies.

Georgy Arzumanyan, Director of the Caucasus REC showed the complex situation related to transboundary water sharing in Transcaucasia. Major problem is connected with the Kura and Arax basin, which is shared by 3 Caucasus countries plus Turkey, Russia, and Iran. Here, water quantity and quality problems, shortage, and flood control problems are also notable.



The Constitutive convention of the Regional network of (basin) water organizations from Eastern Europe, Caucasus and Central Asia was gathered in Moscow on 31st May 2010. 50 representatives of research, design, manufacturing and information institutions from Russia, Ukraine, Byelorussia, Moldova, Uzbekistan, Kazakhstan, Kyrgyzstan, Tajikistan, and Azerbaijan took part in the Convention.

Participants of the Convention meeting considered the following agenda:

- Approval of the Charter of EECCA NWO
- Election of the Network's President
- Election of the Board of Directors
- Review and approval of the Statute of Secretariat – the Network's executive body
- Assigning of the Executive Secretary of the Network – the head of the Secretariat

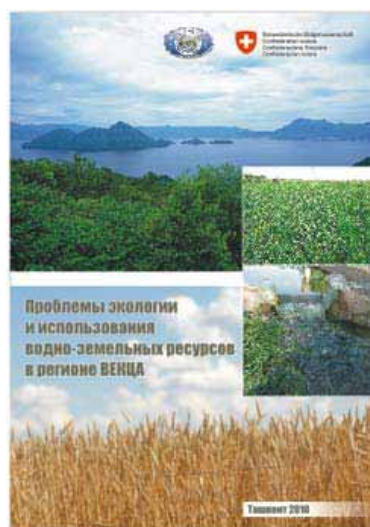
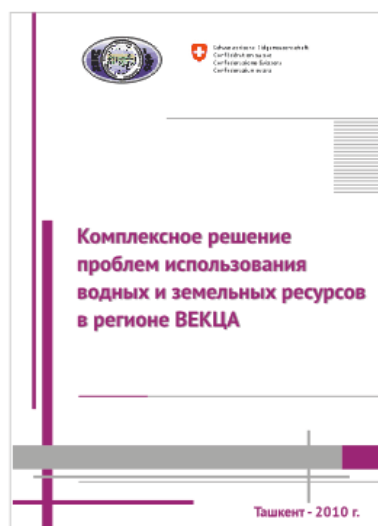
P.A.Polad-zadeh was elected unanimously the President of the Network, while Prof. V.A.Dukhovny – the Executive Secretary of the Network.

The following members were elected to the Network's Board of Directors:

- Prof. Dmitry Kozlov, Moscow State University of Environmental Engineering, Rector, Russian Federation
- Sergey Bednaruk, Center for Russian Waterworks Inventory and State Water Cadastre, Director, Russian Federation
- Sergey Natal'tchuk, Federal Water Resources Agency, Deputy Director, Russian Federation
- Prof. Petro Kovalenko, Institute of Hydraulic Engineering and Land Reclamation of Ukrainian Academy of agrarian sciences, Director, ICID Vice-President, Ukraine
- Sergey Trophantchuk, Seversk-Donets Basin Department, Chief Engineer, Ukraine
- Prof. Victor Dukhovny, SIC ICWC, Director, Governor of the World Water Council's Board of Governors, Uzbekistan – Executive Secretary, Director of the Network's Secretariat
- Makhmud Khamidov, Basin Water Organization "Syrdarya", Uzbekistan
- Prof. Mikhail Kalinin, International State University of Ecology named by A.D.Sakharov, Byelorussia
- Akhmed Mammadov, Research and Design Institute "Sukanal", Deputy Director, Azerbaijan
- Khairullo Mukhitdinov, ICWC Secretariat, Director, Tajikistan
- Nurgazy Mamataliev, IWRM-Fergana Regional Project, National Coordinator for Kyrgyzstan
- Ilya Trombitzkiy, International Environmental Association for Saving the Dniester River "ECO-TIRAS", Executive Director, Moldova
- Prof. Torekhan Karlikhanov, Executive Committee of the International Fund for Saving the Aral Sea, Director of Information-Analytical Center, Kazakhstan
- Nadezhda Prokhorova, Russian Research Institute of Multipurpose Use and Protection of Water Resources, Director, Russian Federation
- Nikolay Tupikin, Scientific and Technological Information Center "Meliovodinform", Director, Russian Federation

The following two collections of scientific papers were published:

- Integrated solution of water and land use problems in the EECCA region. Collection of scientific papers // Edited by V.A.Dukhovny – Tashkent: SIC ICWC: 2010. – 172 p. ISBN 978-601-278-261-5
- Ecological and water and land use problems in the EECCA region. Collection of scientific papers // Edited by V.A.Dukhovny – Tashkent: SIC ICWC, 2010. – 208 p. ISBN 978-601-278-268-4



Lessons learnt

1. Most information systems developed in the former Soviet Union's republics are built by basin principle as opposed to the IS CAREWIB, which presents information by province in CA countries. In the future, we should envisage presentation of information by basin in IS CAREWIB. This would be especially relevant in view of the large-scale implementation of integrated water resources management in the Aral Sea basin countries.
2. An information system on water use and management was developed in each country in South Caucasus. All the IS's were developed under the donor-financed projects. The common problem for all the IS's is that their functioning depends on financial support under the projects and, usually, discontinues upon completion of the project financing. Thus, one of the challenges in developing the national/regional information systems is achieving the sustainability of IS's upon cessation of donor financing.

Annex 1. Members of the Russian-speaking network of water organizations

as of December 1, 2010

№	Organization	Manager / Contact person	E-mail, Website	Phone Fax	Address
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	SIC ICWC	Dukhovny Victor - Director, Network Executive Secretary	dukh@icwc-aral.uz dukh@rol.uz	Phone (998 71) 265 92 95, 266 41 96 Fax (998 71) 265 27 97	Karasu-4/11, Tashkent, 100 187, Republic of Uzbekistan
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4.	Association of enterprises of water supply and sanitation of the Republic of Kazakhstan - "Kazakhstan Su Arnasy"	Syundyukov Valeriy Vladimirovich- prezident Syundukova Yevgenia – chief editor of journal "Water resources and water use"	kazsu@astanainfo.kz Syundyukova_e@mail.ru www.kazsu.astanainfo.kz	7 (7172) 37 67 54 7 (7172) 37 66 85 Cell.: 7 (701) 544 59 45 Cell.: 7 (701) 552 88 32	Kazakhstan, 010008, Astana, Prospect Abaya, 223
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33	OOO Publishing house «Ecomedia», Water Journal	Shiryaeva Marina – Director General		Phone: (495) 380 11 48 Fax: (495) 380-20-18	b.2, Golovinskoye road 8, Moscow, 125212, Russia
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41	International Ecological Association of river savers «Eco-TIRAS»	Trombitskiy Ilya - chief executive officer	ecotiras@mtc.md www.eco-tiras.org	Tel./Fax: (+373-22) 550953, 225615	Moldova, 2012, Kishinev c., Teatralniy avenue, 11A
42	State Water Design Institute "Acvaproiect"	Katrinesku Valeriy Ivanovich - director	acvaproiect@acva.md; ank@acva.md www.acva.md	Phone: 438122 Fax: 449761	str. Russo Alecu 1, Chisinau, MD-2068, Moldova
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44.	Design and technological institute "Hydrological automation and metrology" (PKTI «Wodavtomatika & metrologiya »)/ Coordination metrological center of ICWC	Makarov Oleg Stepanovich - director	pkti@elcat.kg www.icwc-aral.uz/cm_c_ru.htm	Phone. (996 312) 54 11 50 Fax (996 312) 54 11 59	Toktonaliyeva str., 4a, Bishkek, 720055, Kyrgyz Republic

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49.	Talas Water Administration, State Enterprise «Irrigation» at the Ministry of Nature Resources of Kyrgyz Republic	Tashtanaliev K.D. – Head, Domira Omorovna – contact person		Phone: 03422-52827 031254-90-79 Fax: 03422- 53400	1 st of May, 212, Talas, 722720, Kyrgyz Republic
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54.	Kirov Reservoir Authority, State Enterprise «Irrigation» at the Ministry of Nature Resources of Kyrgyz Republic	Katchybekov Nurlan - Head		Phone: 03459-6-00-13 0312-29-67-12 Phone: 03459-6-00-13	UKV. Chon-Kapka village, 724004, Kyrgyz Republic
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56.	Osh Water Administration, State Enterprise «Irrigation» at the Ministry of Nature Resources of Kyrgyz Republic	Abibillaev P.A. - Head		Phone: 03222-5-76-25 Fax: 03222-5-91-72	Kurmanjan Datka, 234, Osh, 714000, Kyrgyz Republic
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Appendix 2. Charter of the Regional network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia (EECCA NWO)

*Approved by the Constitutive Convention of the Network,
Minutes No. 1 of 31.05.2010, Moscow, Russian Federation*

General

International Network of Basin Organizations (INBO) was established during the constitutive assembly in 1994 at Aix-les-Bains, France.

The regional networks of water (basin) organizations have been and are established for the development of INBO in various regions all over the world.

The Charter sets the goal, objectives, structure and functions of the regional network of water (basin) organizations from Eastern Europe, Caucasus and Central Asia (NWO EECCA).

Given an importance of communication establishment in the region both among water (basin) organizations and land-reclamation organizations, it will be possible for organizations dealing with irrigation and land reclamation to join the network as well.

1. Legal status of NWO EECCA

1.1. NWO EECCA is an independent, non-profit, non-partisan international network of water organizations.

1.2. The regional network of water (basin) organizations of EECCA countries is a part of INBO and, at the same time, it collaborates with the UN Economic Commission for Europe and ICID.

2. The Network Goal and Objectives

2.1. Network goal is to develop the integrated water resources management and create conditions for comprehensive and environmentally friendly rational use of water and reclaimed land.

2.2. Network objectives

Based on the goal, NWO EECCA:

- Establishes ties among organizations interested in the Network goal and promotes exchange of experience and expertise among Network's members;
- Provides assistance in exchanging and disseminating information on water and land reclamation;

- Provides access to national, regional and international databases on water and land reclamation by using existing frameworks and tools;
- Facilitates education, professional training, and internships in field of water and land reclamation, with particular focus on incorporation of these fields into general education;
- Organizes events in order to attract attention of managers at various levels and the public to water-related and land reclamation issues;
- Develops international and regional (including, scientific) programs, conducts search for donors and implements them;
- Promotes public participation in decision making on transboundary, basin water issues;
- Initiates discussions on transboundary water issues and policies related to efficient water use and promotes dialogues among governmental, non-governmental community organizations and other stakeholders;
- Contributes to the development of regional cooperation among governmental, public agencies and non-governmental organizations in area of integrated water resources management and improved irrigated agriculture;
- Attracts new members to the NWO EECCA;
- Popularizes measures to prevent negative anthropogenic impact on water bodies;
- Establishes cooperation with other regional networks of water (basin) organizations in sharing experiences and information.

3. The Network Structure

3.1. The NWO EECCA is open to basin, research, educational, design, information, non-governmental, community-based organizations dealing with the water sector and land reclamation and signing Memorandum or Agreement on joining the NWO EECCA.

3.2. An organization, which is applying to enter the Network, is willing to participate, to the extent possible, in the Network activities, inform the Network about its activity, exchange experiences in know-how to maintain and multiply available scientific capacity and establish closer cooperation among the members. Such organization also agrees to share its knowledge via the Network's knowledge dissemination tools (web-site www.cawater-info.net and newsletter). Moreover, it is also planned to develop cooperation with the GWP for Central Asia and Caucasus and the ICID work team "Irrigation and drainage in the EECCA countries under conditions of socio-economic transformation".

3.3. The managerial body of NWO EECCA is the Convention of members, which is gathered every two years, and the Board of directors elected by the Convention for two years, between the meetings of the Convention.

3.4. NWO EECCA is chaired by the President, who is elected by the Convention for two years.

3.5. The executive body of the Network is Secretariat.

3.6. The Secretariat is headed by the Executive Secretary, who is elected by the Board of Directors for two years.

3.7. The official working languages of the Network are Russian and English.

3.8. The Network excludes membership fees.

3.9. The membership is terminated upon receipt of the formal letter of resignation in Secretariat or upon decision of the Convention for non-fulfillment on a regular basis of member's obligations.

3.10. The Network's Convention is made up of all the members (representatives).

3.11. The chairman of the Convention is the President of NWO EECCA.

3.12. Ordinary Conventions are called successively in different geographic locations of the network.

3.13. Extraordinary Conventions may be called:

- either on the President's initiative, which should be agreed by the Board of Directors;
- or on the Board's of Directors initiative;
- or upon the written request of half the Network's members plus one.

3.14. The President notifies the members about the next Convention meeting 2 months in advance.

3.15. The Convention meeting agenda is initiated by the President and then approved by the Board of Directors.

Working papers are disseminated upon prior notification.

3.16. The President and Executive Secretary of the International Network of Basin Organizations (INBO) should be invited to the NWO EECCA Board of Directors and the Convention meetings.

3.17. The President and Executive Secretary of the Network, together with two other representatives elected by the Board of Directors represent the NWO EECCA in the INBO Liaison Bureau.

3.18. The Charter of the Network is approved by the Convention and submitted to the INBO for recording.

4. Network's Board of Directors

4.1. The Network's Board of Directors is a managerial body of the Network between meetings of the Network's supreme body – the Convention.

4.2. The Board of Directors is authorized to the following:

4.2.1. Sets general principles and priority directions of activity, based on the Network goal and objectives (para. 2);

4.2.2. Approves organizational and managerial regulations of the Network;

- 4.2.3. Approves work plan of the Network;
 - 4.2.4. Approves Statute of Secretariat;
 - 4.2.5. Approves organizational structure and staff responsibilities of the Secretariat;
 - 4.2.6. Approves and dismisses the head of Secretariat – Executive Secretary of the Network;
 - 4.2.7. Reviews and approves programs and projects for mobilizing investments;
 - 4.2.8. Distributes grants among the Network members.
 - 4.2.9. Exercises periodical financial and performance supervision over the Secretariat's activity.
- 4.3. The Board of Directors is made of 15 members.
- 4.4. The Board of Directors is headed by the President.
- 4.5. The head of Secretariat – Executive Secretary of the Network is a member of the Board of Directors ex officio;
- 4.6. Upon agreement of the Board of Directors, the President may invite to the Board reputable individuals one-time or on regular basis. However, those have no a voting right in the process of making decisions;
- 4.7. Members of the Board are elected by the Convention for 1-2 persons per country (excluding regional organizations, which representatives do not count as national representatives);

5. Executive Body - Secretariat

- 5.1. The permanent executive body of the Network is the Secretariat, which is based in Tashkent, Uzbekistan;
- 5.2. The Secretariat simultaneously serves as headquarters of the Network;
- 5.3. Activities of the Secretariat are regulated by its Statute approved by the Board of Directors;
- 5.4. In its activity Secretariat follows the objectives of NWO EECCA, decisions of the Conventions, assignments of the Board of Directors and the Statute of Secretariat;

6. Duration of the Network

The duration of the Network is unlimited.

7. Termination of the Network

Functioning of the Network is terminated upon decision of the Network's Convention

Appendix 3. Statute concerning Secretariat of the Regional network of (basin) water organizations from Eastern Europe, Caucasus and Central Asia (NWO EECCA)

General

In December 2008, during the workshop on “Development of a Water Information Network in CIS countries by the example of and through the Central Asian Regional Water Information Base – CAREWIB” in Moscow the question of establishing a network of water organizations in EECCA countries was initiated.

UNECE has supported this proposal and organized two work meetings.

By April 2010, 44 organizations have joined the network, including: Azerbaijan – 2; Byelorussia – 3; Russia – 6; Moldova – 2; Kazakhstan – 6; Tajikistan – 3; Turkmenistan – 1; Kyrgyzstan – 3; Uzbekistan – 10; Georgia – 1; and, Ukraine – 7.

On 31st May 2010 in Moscow, the Constitutive Convention of the Regional network of (basin) water organizations from Eastern Europe, Caucasus and Central Asia (NWO EECCA) approved the Charter of the Network, elected the President and formed the Board of Directors and the Secretariat as an executive body. The headquarters of the Network are located in the city of Tashkent.

1. Legal Status of the Secretariat

1.1. The Secretariat is a legal entity having a status of international organization (as stated in the NWO EECCA Charter, para.1) and has a right:

- to sign contracts, set structure and number of staff upon agreement with the Board of Directors;
- to procure and dispose of property upon agreement with the Board of Directors, get grants, subsidies and loans related to NWO EECCA’s activity, according to the Charter.

1.2. Upon agreement with the Board of Directors, the Secretariat may establish its offices and open settlement and currency accounts in order to fulfill functions as assigned in the Charter of NWO EECCA and given Statute of Secretariat.

1.3. The Secretariat and its property is exempted from all kinds of taxes, duties and other obligatory charges to the budget as an international organization as stipulated under legislation of the state, within the boundaries and under jurisdiction of which the Secretariat is located.

1.4. The Secretariat is exempted from customs duties and restrictions regarding items, property, furniture that Secretariat imports or exports for formal use as stipulated under legislation of the founder-states of Secretariat.

Funding from international donors and organizations is exempted from taxes and duties.

1.5. The Secretariat's officials enjoy privileges and immunities for free fulfillment of their functions as stipulated for staff of international organizations within the boundaries of the founder-states of Secretariat.

1.6. Without prejudice to privileges and immunities and other benefits as stipulated above, all persons enjoying such privileges and benefits, according to this article, must comply with laws and regulations of a founder-state of Secretariat, within the boundaries of which and under the jurisdiction of which they are located.

1.7. The Secretariat's officials have a right to use an ID card of NWO EECCA's format approved by the Board of Directors.

1.8. Visa applications, if required, from the Secretariat's officials having the ID cards, who travel to any country for fulfillment of their functions, should be processed in the first order. These persons are given benefits for prompt and problem-free traveling.

1.9. The official working languages of the Network are Russian and English.

2. Location and governance of the Secretariat

2.1. The Secretariat is a Permanent executive body of the Network.

2.2. Simultaneously, the Secretariat is the headquarters of the Network.

2.3. The Secretariat is located in Tashkent, Uzbekistan.

2.4. The Secretariat is governed by the Network's Executive Secretary, who is assigned by the Board of Directors.

2.5. The term of office of the Executive Secretary is set by the Board of Directors.

3. Scope of activity

3.1. According to objectives and tasks as set in the Charter of NWO EECCA (para 2), the Secretariat fulfils them in practice in the territory of EECCA countries.

3.2. In this context, the Secretariat bends their efforts to the development of long-term relationships between organizations of the Network and to the promotion of experience exchange.

3.3. Facilitates adoption of tools applicable in institutional and financial management for generation of water knowledge and creation of water banks, for coordinated preparation of mid- and long-term action programs.

3.4. Takes part in the development of information and training programs for Network's members and various concerned parties.

3.5. Takes part in events aimed at promotion of people's education in efficient water use and health related to water.

3.6. Promotes principles of international cooperation in water protection and use and mobilizes financing of the water programs.

3.7. Assesses current actions undertaken by member-organizations and informs other members on their results.

3.8. Organizes a Network development fund.

4. Property

4.1. The property of Secretariat includes current assets and any other property.

4.2. The sources of the Secretariat's property are as follows:

- Property transferred by property owners;
- Property donated by physical or legal entities;
- Property procured at expense of income generated from Secretariat's activity;
- Other sources allowed by legislation.

4.3. Upon termination of the Secretariat, the property is distributed among founders, according to their shares in procuring the property and based on decisions of the Board of Directors.

5. Duration of the Secretariat

The duration of the Secretariat is unlimited.

6. Termination of the Secretariat

Functioning of the Secretariat is terminated upon decision of the Network's Convention.

Appendix 4

Meeting agenda

“Development of Water Information Network in CIS using as an example and on the basis of the Information System and Water Portal “CAREWIB”

SIC ICWC, UNECE, JSC “Vodstroy”, GWP CACENA

Moscow, 11-12 December 2008

10 December, Wednesday	
	Arrival and accommodation of participants (hotel «Molodiejnaya»)
11 December, Thursday	
9.30-10.00	Registration of participants
10.00-10.25	<p>Opening:</p> <ul style="list-style-type: none"> - President of JSC “Vodstroy” Polad-zade P.A. <p>Welcome speeches:</p> <ul style="list-style-type: none"> - Rector of SOU Moscow State University of Environmental Engineering, Prof. Kozlov D.V. - Deputy Director of the Land Reclamation Department, Ministry of Agriculture, Russia, Petrov A.Yu. - Director of SIC ICWC, Prof. Dukhovny V.A. - Chairman of the Union of watermen and irrigators, Russian Federation, Sukhoy N.A. - Chairman of Association of Water-Management Organizations Viksna A.A.
9.20-9.40	<p>Report of Director of SIC ICWC Prof. Dukhovny V.A.</p> <p>«International network of basin organizations (INBO) - an example to follow»</p>
10.40-10.55	<p>Report of the President of JSC “Vodstroy” Polad-zade P.A. «For community of water idea in CIS countries!»</p>
10.55-11.20	<p>Report of leading specialist of SIC ICWC Beglov I.F. «Water and environmental knowledge portal in Central Asia»</p>
11.20-11.40	<p>Report of the Director of Center of Registry and Cadastre, RF, S.Ye.Bednaruk «Russian registry of hydrostructures and information system «Russia’s rivers»</p>
11.40-12.00	<p>Report of the Head of Regional Information-Computing Center, SIC ICWC, Sorokin D.A. «Central Asian Regional Water Information Base «CAREWIB»</p>
12.00-12.20	<i>Coffee-break</i>
12.20-12.50	<p>Report of leading researcher Sorokin A.G. «Potential of analytical applications of IS «CAREWIB»</p>
12.50-13.10	<p>Report of Deputy Head of Division, Water Resources Committee, Ukraine, Lisyuk O.G. and of Chief Engineer of Seversko-Donetsk BWRA Trophanchuk</p>

	S.I. «Basin geo-information systems of monitoring and integrated management of large rivers in Ukraine»
13.10-13.30	Report of Deputy Director of Engineering-Consulting Company JINJ Ltd. Melkonyan E. «Water Information System in Armenia»
13.30-13.50	Discussion
14.00-15.00	<i>Lunch</i>
15.00-15.20	Report of Deputy Director of Central Research Institute of Integrated Water Resources Use Korneyev V.N. «Water Information System in Byelorussia»
15.20-15.40	Report of Director of Azerbaijan Research Institute of Water Problems Ganbarov E. «Water Information System in Azerbaijan»
15.40-16.10	Report of water use and protection regulation expert, Committee for Water Resources, Kazakhstan, Tanatbayeva S.S. and Deputy Head of Aralo-Syrdarya Basin Inspection on water regulation and protection, Kystubayev O. «Water Information System in Kazakhstan»
16.10-16.30	Report of Deputy Director, SIC ICWC, Sokolov V.I. «IWRM - important potential for better water availability in Central Asia»
16.30-17.00	<i>Coffee-break</i>
17.00-18.50	Discussion on follow-up program
18.50-19.00	Summing up
12 December, Friday	
9.00-11.00	Discussion on follow-up program
11.00-11.30	<i>Coffee-break</i>
11.30-13.00	Discussion on follow-up program
13.00-14.30	<i>Lunch</i>
14.30-16.00	Discussion on follow-up program
16.00-16.30	<i>Coffee-break</i>
16.30-17.30	Drawing up of final document
17.30-18.00	Meeting conclusion

Appendix 5

List of meeting participants “Development of Water Information Network in CIS using as an example and on the basis of the Information System and Water Portal “CAREWIB”»

Moscow, 11-12 December 2008

№	Name	Position, place of work
1.	Asarin A.Ye.	JSC “Gidropro”
2.	Beglov I.F.	SIC ICWC, Tashkent
3.	Bednaruk S.Ye.	Director, Center of Registry and Cadastre
4.	Bessonov N.D.	Chief editor, journal “Land reclamation and water management”
5.	Viksne A.A.	Chairman of Association of Water-Management Organizations
6.	Ganbarov E.	Director, Azerbaijan research institute of water problems, Baku
7.	Grishenko N.S.	Sovintervod Ltd.
8.	Petrov A.Yu.	Deputy Director, Land reclamation department, Ministry of Agriculture, Russia
9.	Dukhovny V.A.	Prof., Director, SIC ICWC, Tashkent
10.	Korneyev V.N.	Deputy Director of Central Research Institute of Integrated Water Resources Use, Minsk, Byelorussia
11.	Kizyaev B.M.	Director, VNIIG&M
12.	Kozlov D.V.	Rector of SOU Moscow State University of Environmental Engineering
13.	Kystaubayev O.	Deputy Head of Aralo-Syrdarya Basin Inspection on water regulation and protection, Kazakhstan
14.	Lisyuk O.P.	Report of Deputy Head of Division, Water Resources Committee, Ukraine, Kiev
15.	Melkonyan E.	Deputy Director, Engineering-Consulting Company 3 JINJ Ltd., Armenia
16.	Mikheyev N.N.	Minister Counselor
17.	Omelianenko V.A.	Deputy Director, Scientific Information Agency “Natural Resources”
18.	Piven’ N.N.	Deputy Head of Division, Don BWO
19.	Polad-zade P.A.	President, JSC “Vodstroy”
20.	Svintsov I.P.	Secretary-Academician Russian Academy of Agricultural

№	Name	Position, place of work
		Sciences
21.	Sorokin A.G.	Head of Division, SIC ICWC, Tashkent
22.	Sorokin D.A.	Head of Regional Information-Computing Center, SIC ICWC, Tashkent
23.	Sokolov V.I.	Regional coordinator, Global Water Partnership for Central Asia and Caucasus (GWP CACENA), Tashkent
24.	Sukhoy N.A.	Chairman, Union of watermen and irrigators
25.	Tanatbayeva S.S.	Water use and protection regulation expert, Committee for Water Resources, Kazakhstan
26.	Trophanchuk S.I.	Chief Engineer, Seversko-Donetsk BWO, Ukraine
27.	Tupikin N.I.	Director, Center for Scientific and Technological Information «Meliovodinform»
28.	Shedrin V.N.	Director, FGNU ROSNIIPM
29.	Lisichkin V.S.	journal “Land reclamation and water management”
30.	Krasnoshekov V.N.	Pro-rector, Moscow State University of Environmental Engineering
31.	Bondarin I.G.	VNIIG&M
32.	Zeliger A.M.	Center for Geo-hydroinformatics, Moscow State University of Environmental Engineering
33.	Kudryashov A.N.	Union of watermen and irrigators
34.	Bulgakov V.I.	All-Russian Research Institute of Irrigation and Rural Water Supply Systems «Radouga»
35.	Kukharyev N.A.	All-Russian Research Institute of Irrigation and Rural Water Supply Systems «Radouga»
36.	Stepanova T.G.	Center for Scientific and Technological Information «Meliovodinform»
37.	Golovanov A.I.	Prof., Head of land reclamation sub-faculty, Moscow State University of Environmental Engineering
38.	Khanov N.V.	Hydraulics sub-faculty, prof., Moscow State University of Environmental Engineering
39.	Roubin M.G.	Deputy Director, Gosecomeliovod

Appendix 6

Meeting resolution

“Development of Water Information Network in CIS using as an example and on the basis of the Information System and Water Portal “CAREWIB”»

Moscow, 11-12 December 2008

1. Extend thanks to the UN Economic Commission for Europe for the support of this event and the active involvement in its preparation.
2. Recognize an importance of information and professional union of watermen, water users and stakeholders in the post-Soviet space.
3. Recognize as interesting the experience of ICWC in exchange of information, implementation of IWRM, development of regional and national information systems CAREWIB, etc.
4. Support proposal of the initiative group and INBO on the establishment of INBO network in Russian-speaking post-Soviet space.
5. Request INBO, UNECE, GWP CACENA, and SDC to support the development of this network from trainings and workshops.
6. Establish voluntary nature of the network. The membership in this network is voluntary, which is based on professional community and mutual understanding and organized in form of exchange of opinions, experience, and information on various aspects of water-management activities, without any financial contributions.
7. Establish permanent Secretariat to coordinate activities of the network. Exchange of information should be provided through the portal CAWater-Info and the Russian-speaking segment of the INBO web-site.
8. Within the framework of existing work group of the Russian NCID, consider it advisable to request the ICID Headquarters to focus activities of this NCID on facilitation of exchange of information on water management, irrigation, and land reclamation in CIS countries.

Appendix 7

Work meeting agenda “Development of Water Information Network in EECCA using as an example and on the basis of the Information System and Water Portal “CAREWIB”»

Tashkent, April 8-9, 2010

April 7

Arrival of participants

April 8

8.30-9.00	Registration
9.00-9.20	Welcome speech of SIC ICWC (Dukhovny V.A.)
9.20-9.40	Organization of work on the Project CAREWIB and network of correspondents (I. Beglov)
9.40-10.20	Demonstrating capabilities and services of the portal CAWater-Info (I. Beglov)
10.20-11.00	Demonstrating the IS CAREWIB capabilities (D. Sorokin)
11.00-11.40	Coffee-break
11.40-12.10	The analytical tools of CAREWIB (A. Sorokin)
12.10-12.50	Presentation on the state of and needs for water-environmental information in Azerbaijan
13.00-14.00	Lunch
14.00-14.40	Presentation on the state of and needs for water-environmental information in Armenia
14.40-15.20	Presentation on the state of and needs for water-environmental information in Georgia
15.20-16.00	Experience in water-related information integration and the information exchange in South Caucasus (Z. Djincharadze, ZOI)
16.00-16.30	Coffee-break
16.30-17.10	Presentation on the state of and needs for water-environmental information in Russia

17.10-17.50 Presentation on the state of and needs for water-environmental information in Ukraine

17.50-18.00 Summary

19.00 Dinner

April 9

9.00-11.00 Developing vision (concept) of CAREWIB analogue in Caucasus

11.00-11.40 Coffee-break

11.40-13.00 Developing vision (concept) of CAREWIB analogue in Caucasus

13.00-14.00 Lunch

14.00-16.00 Developing vision (concept) of CAREWIB analogue in Caucasus

16.00-16.30 Coffee-break

16.30-* Closing

April 10

Departure of participants

Appendix 8

List of work meeting participants
“Development of Water Information Network in EECCA using as an example and on the basis of the Information System and Water Portal “CAREWIB”»

Tashkent, April 8-9, 2010, hotel “Shodlik Palace”

- | | | |
|-----|---------------------|---|
| 1. | Ayten Yusifova | Responsible for sectoral issues, Ministry of Environment and Natural Resources, Department for environmental monitoring, Azerbaijan |
| 2. | Alakbar Hasanalyev | NGO «International Hydrological Program», Azerbaijan |
| 3. | Vahagn Tonoyan | National coordinator, Project on “Transboundary water management in the Kura River basin” (phase II), Armenia |
| 4. | Hrant Zaqaryan | Senior officer, Ministry of Environmental Conservation, Agency for Water Resources Management, Armenia |
| 5. | Malak Shukurova | Executive director, Regional Environmental Center for Caucasus (REC-Caucasus), Georgia |
| 6. | Zurab Jincharadze | Project coordinator, Zoi, Tbilisi office, Georgia |
| 7. | Natalya Rudnitskaya | Academic secretary, FSUE «RosNIIVH», Russia |
| 8. | Victor Dukhovny | Director, SIC ICWC |
| 9. | Iskander Beglov | Project manager, SIC ICWC |
| 10. | Anatoly Sorokin | Head of division, SIC ICWC |
| 11. | Denis Sorokin | Head of division, SIC ICWC |
| 12. | Kamilla Yuldasheva | Technician, SIC ICWC |
| 13. | Grigory Poltarev | System administrator, SIC ICWC |
| 14. | Ferdinand Beglov | Head of division, SIC ICWC |

Appendix 9

Work meeting resolution

“Development of Water Information Network in EECCA using as an example and on the basis of the Information System and Water Portal “CAREWIB”»

Tashkent, April 8-9, 2010

1. Recognize an importance of the information and professional integration of water experts, users and interested parties in the EECCA countries.
2. Recognize the expertise of SIC ICWC in information exchange, IWRM implementation, regional and national information systems development under CAREWIB, etc.
3. Acknowledge a quite high degree of elaboration of information systems in South Caucasus countries, as well as financial instability and dependence on donors' support.
4. Given the absence in South Caucasus of a basin water commission similar to ICWC and the difficult political situation, start developing the portal and IS on South Caucasus on the base of and with the involvement of non-governmental organizations.
5. Zoi takes an obligation to develop draft model of information exchange, design architecture of the portal and submit this to all interested parties.
6. The participants should submit to their respective ministries and departments proposals on the development of water and environmental information network in South Caucasus in order to identify potential members.
7. After discussion and agreement by all the parties, Zoi under support of UNECE shall prepare draft proposal for financing and submit it to donors.
8. The participants expressed their view regarding inclusion into the information exchange of all on-going relevant projects in this sub-region (Kura-Arax, phase 2, EC-financed, etc.), as well as planned ones (UNDP/GEF).
9. Make special mention of SIC's efforts in developing the network of water organizations in EECCA countries (NWO EECCA). The participants support the idea to join the network and undertake to consider this question in their country organizations.
10. The participants express gratitude to UNECE and the Government of the Russian Federation for the support of this event and to SIC ICWC for organization.

Appendix 10

**Program
of events dedicated to the development of the Network of Water Organizations from
Eastern Europe, Caucasus, and Central Asia
(NWO EECCA)**

Moscow, May 31, 2010

Conference hall of the Moscow State University of Environmental Engineering
(Pryanishnikova str., 19)

**Review workshop of the Network of Water Organizations from Eastern Europe,
Caucasus, and Central Asia (NWO EECCA)**

Opening:

Welcome speech by the Head of the Russian Federal Agency for Water Resources
Seliverstova M.V.

Welcome speech by the Chancellor of the Moscow State University of Environmental
Engineering Prof. Kozlov D.V.

Welcome speech by the President of AO “Vodstroy” Polad-zadeh P.A.

Welcome speech by Chairman of NP “Union of watermen and irrigation engineers”
Sukhoi N.A.

Welcome speech by UNECE regional adviser on environment Libert B.

Presentations:

Prof. V.Dykhovny – Current water sector trends in EECCA countries

Prof. P.Kovalenko – Issues in establishing the ICID work group “Irrigation and
drainage in the countries facing socio-economic transformation”

V.Sokolov – International Network of Basin Organizations and our participation in this
Network

I.Beglov – Status of information exchange and the development of NWO EECCA

Presentations of national organizations:

- Prokhorova N.B. (Russian Federation)

- Trophantchuk S. (Seversk-Donets Basin Department, Ukraine)

- Trombitskiy I. (Eco-Tiras, Moldova)

- Prof. Kalinin M. (International State Ecological University, Byelorussia)
- Mamadov A. (Institute “Sukanal”, Azerbaijan)
- Tanatbayeva S. (Water Resources Committee, Kazakhstan)
- Mamataliev N. (Kyrgyz branch of SIC ICWC, Kyrgyzstan)
- Gadoev I.M. (Tajik branch of SIC ICWC, Tajikistan)
- Ernazarov N. (Ministry of Agriculture and Water Resources, Uzbekistan)

Presentations of regional organizations:

Prof. Karlykhanov T. – Review of a network of water organizations in Central Asia (Executive Committee of IFAS)

Stulina G. – Gender and water (SIC ICWC)

Mukhitdinov Kh. – Institutional development for the integrated water resources management in Tajikistan (ICWC Secretariat)

Discussion and wrap-up

Constitutive Convention of NWO EECCA

Approval of the Charter of NWO EECCA

Election of the Network’s President

Election of the Board of Directors

Meeting of the Board of Directors of NWO EECCA

Approval of Statute concerning the Secretariat as an executive body of the Network

Assigning the Network’s Executive Secretary – head of the Secretariat

Appendix 11

List of participants of the events dedicated to the development of the Network of Water Organizations from Eastern Europe, Caucasus, and Central Asia (NWO EECCA)

Moscow, May 31, 2010

Conference hall of the Moscow State University of Environmental Engineering
(Pryanishnikova str., 19)

#	Name	Affiliation, position
1.	Anatenko A.R.	Dean of MF
2.	Arent K.	Professor of MSUEE
3.	Bakshthanin A.Sh.	Dean of FPK
4.	Beglov F.F.	Chief of division, SIC ICWC
5.	Beglov I.F.	Manager of the regional project «CAREWIB»
6.	Bessonov N.D.	Chief editor, journal “Land reclamation and water management”
7.	Bednaruk S.Ye.	Director, Center of Registry and Cadastre
8.	Varyvdin A.V.	Dean of E&P
9.	Viksne A.A.	Association of Water-Management Organizations
10.	Volshanik V.V.	Russian Engineering Academy
11.	Gadoev I.	Leader of Tajik group, the project «CAREWIB»
12.	Grishenko N.S.	Sovintervod Ltd.
13.	Gurive A.R.	KIVR
14.	Dukhovny V.A.	Director, SIC ICWC
15.	Kalinin M.Yu.	Professor of International Sakharov State Environmental University (Byelorussia)
16.	Karlikhanov T.	Representative of EC IFAS (Almaty)
17.	Karobochkin M.I.	Head of sub-department «IT for land management»
18.	Kvasova V.N.	Dean of Ecological Department
19.	Kizyaev B.M.	Director, VNIIG&M
20.	Kovalenko P.I.	Director of UkrNIG&M, ICID Vice-president for EECCA
21.	Kozlov D.V.	Rector of SOU Moscow State University of Environmental Engineering
22.	Krasnoshykov V.N.	Vice-chancellor on economic matters, MSUEE
23.	Lisichkin V.S.	Journal “Land reclamation and water management”

24.	Mamataliev N.	National coordinator of the Regional IWRM-Fergana Project for Kyrgyzstan
25.	Mammadov A.	Deputy Director of “Sukanal”, Azerbaijan
26.	Metelsky P.Z.	Director, IVD MSUEE
27.	Morozov A.V.	Deputy Dean of FDOP
28.	Mukhitdinov Kh.E.	Head of ICWC Secretariat, Tajikistan
29.	Nataltchuk S.I.	Rosvodresursy
30.	Omelianenko V.A.	Scientific Information Agency “Natural Resources”
31.	Polad-zade P.A.	President, AO “Vodstroy”
32.	Prokhorova N.B.	ROSNIIVH
33.	Roubin M.G.	Gosecomeliobod
34.	Siltchenkov I.S.	Dean of distance education department
35.	Sokolov V.I.	Member of INBO supervisory committee for EECCA
36.	Sorokin A.G.	Head of Division, SIC ICWC
37.	Startchevoi V.F.	Vice-chancellor on educational matters, MSUEE
38.	Stepanov A.A.	Vice-chancellor on FGK
39.	Stepanova T.G.	Center for Scientific and Technological Information «Meliovodinform»
40.	Stulina G.V.	Manager of regional project “Gender and Water”
41.	Tanatbayeva S.S.	Water use and protection regulation expert, Committee for Water Resources, Kazakhstan
42.	Trophanchuk S.I.	Chief Engineer, Seversko-Donetsk BWO, Ukraine
43.	Trombitskiy I.	Director «ECO-TIRAS», Moldova
44.	Tupikin N.I.	Center for Scientific and Technological Information «Meliovodinform»
45.	Phinomina Ye.Yu.	Deputy Director FTO “Nauka”, Meliovodinform
46.	Khamidov M.Kh.	Head of BWO “Syrdarya”, Tashkent
47.	Ernazarov N.Sh.	Deputy chief of Central Administration for Water Resources, MAWR RUz
48.	Yurtchenko N.I.	Vice-chancellor on economic matters, MSUEE

Appendix 12

Resolution of the review workshop of the Network of Water Organizations from Eastern Europe, Caucasus, and Central Asia (NWO EECCA)

Moscow, May 31, 2010

1. Recognize an importance of information-based and professional integration of water professionals, land reclamation experts, water users and other stakeholders in EECCA countries.
2. Deem it expedient to support a proposal of the International Network of Basin Organizations regarding the establishment of a regional sub-network and establish NWO EECCA within this Network.
3. Take the goals, objectives and methods of the International Network of Basin Organizations as a basis – i.e. promoting the adoption of the integrated water resources management at a river basin level as the main tool of sustainable development – and complement them by specific goals and objectives of NWO EECCA, such as creating conditions for comprehensive and environmentally friendly rational use of water and reclaimed land.
4. Make special mention of SIC's efforts in developing the Network of Water Organizations in EECCA countries (NWO EECCA).
5. The participants appreciate support of the UN Economic Commission for Europe and the Government of the Russian Federation for this event and thank SIC ICWC and the Moscow State University of Environmental Engineering for organization of the event.