

Swiss Confederation

CLIMATE CHANGE AND SECURITY IN THE DNIESTER RIVER BASIN

as part of the project "Climate Change and Security in Eastern Europe, Central Asia and the Southern Caucasus"

REPORT

on the 13th Meeting of the Working Group on Flood Management and Climate Change Adaptation / Concluding Project Meeting

Hotel Dacia, 135, 31 August 1989 Str., Chisinau, Republic of Moldova, 23 March 2017

- 1. Mr. Igor Morgoci (Deputy Minister of Environment of the Republic of Moldova) thanked the project team and the donors for the project deliverables, particularly the support to transboundary cooperation, and stressed the need to mainstream the Strategic Framework for Adaptation to Climate Change in the Dniester River
 - Basin and the Implementation Plan into the national sectoral policies and to present them to potential investors. Mr. Oleksandr Bon (Ukrainian MOENR) stated that the project deliverables were very important for Ukraine among others in the context of both countries' Association Agreements with the EU. He also informed that the Plenipotentiary under the 1994 Agreement between the Government of the Republic of Moldova and the Government of Ukraine on the Joint Use and Protection of Transboundary Waters had been appointed which makes a meeting of the Plenipotentiaries possible in the near future. Mr. Stephen Young (OSCE) thanked the



project donors and stressed that active participation is a key for success. He underlined that the OSCE in partnership with UNECE will continue to support activities related to water management and climate change adaptation in the Dniester basin within a new Global Environment Facility (GEF) funded project due to start in mid-2017. Mr. Bo Libert (UNECE) reminded the meeting participants that the Dniester experience on adaptation to climate change is one of the most advanced in transboundary watercourses and that activities for many decades ahead have been identified;. He also mentioned thatwhile the application of the project results stays the states responsibility the involved international organizations are open to discuss further support. Mr. Alexandre Darras from the EU Delegation to Moldova underlined the importance of the project to the EU. Mr. Alexander Karner (ADA) noted that ADA has been supporting many water-related projects in both countries and highlighted that climate change is increasingly being noted by the local population,

demanding more comprehensive transboundary cooperation that has been addressed by the project. He also stressed the need for securing the national ownership, and referred to a potential cascade of hydropower plants in the Upper Dniester in Ukraine. In his speech the Moldovan-Ukrainian Working Group on Flood Management and Climate Change Adaptation was highlighted as an example of good practice for the management of natural resources in the river basin. Ms. Christine Kitzler, OSCE, summarized the main achievements of the IfS project Climate Change and Security in Eastern Europe, Central Asia and the Southern Caucasus and outlined the next steps.

- 2. In a presentation on recent global developments on water and climate, Ms. Sonja Koeppel, UNECE, drew attention to several points:
 - only few Intended Nationally Determined Contributions (INDCs) submitted to the UNFCCC mention transboundary issues (about 10), among them the INDC by the Republic of Moldova,
 - water issues were high in the agenda at the UNFCCC COP-22 in Marrakesh in November 2016 (a dedicated water action day was organized),
 - the Dniester CC adaptation activities also described as a case study at the UNFCCC site, Nairobi work programme (UNFCCC / adaptation clearing house mechanism), were presented at a number of events (COP 22 in Marrakesh, World Water Forum in Korea), and might be presented as a case study at the Bonn Climate Conference in May 2017 and the World Water Forum in Brazil in 2018.
 - links with the Paris Pact on water and adaptation to climate change in the basins of rivers, lakes and aquifers developed by INBO and officially opened for signing in 2015 should be further developed by the stakeholders of the Dniester basin (Moldova signed the Pact),
 - with regards to the SDG goal 6 on water, indicator 6.5.2 to measure progress on transboundary water cooperation has been developed and combined with the reporting under the Water Convention. All Parties, including Ukraine and the Republic of Moldova, are asked to submit their national reports by 15 May 2017 to the Water Convention secretariat.
- 3. Mr. Oleksandr Bon, UKR MOENR, informed that the 2012 Dniester Treaty is going through the internal national procedure for the ratification, and suggested that the 1994 Agreement should serve as the basis for co-operation on transboundary water management until the new Treaty is ratified. Mr. Andrei Ursace, MD MOE, informed that the Dniester District Management Plan is to be approved by the government in the near future, and that the MOE is in process of identifying an agency responsible for flood management. Ms. Maryna Shymkus (UKR MOENR) informed that an EU-funded project "Apena" supports the Ukrainian Government in transposing the environment-related EU directives and that the Water Framework Directive (WFD) is the most advanced among the environmental directives in terms of implementation in Ukraine. She added that the water authorities are being reformed at the moment and that the implementation of the EU Nitrates Directive is done together with the agricultural authorities, while the Floods Directive falls under the responsibility of the emergency authorities. Mr. Vasilie Scorpan (Moldovan Climate Office) informed that the Moldovan Government will ratify the Paris Agreement in the near future, stressed that Moldova included adaptation to its INDC, and informed that some local adaptation strategies have been developed. He also added that MD is preparing its 4th National Communication under the UNFCCC which will be complementing the activities implemented in the Dniester river basin. Ms. Anna Platonova (UKR MOENR) told that the State Climate Policy Concept by 2030 was approved in Ukraine in December 2016 and stressed that experiences and deliverables under the Dniester climate change project are very important for the MOENRU and can serve as a basis to attract attention to climate change adaptation.

- 4. Ms. Tamara Kutonova, OSCE consultant, updated on the status of implementation of adaptation measures supported by the project, in particular, that the three monitoring stations are being installed in Ukraine's part of the basin, and procurement of a Doppler device (Acoustic Doppler Current Profiler) for Moldova is in progress. All the measures and their implementation status are reflected in the table below.
- Mr. Yuriy Nabivanets, Ukrainian Hydrometeorological Institute of Ukraine informed that a model for hydrological forecasting of the rain inflow to the Dniester reservoir has

| Support to the information base | | | |
|---|-------------------------------|--|--|
| Monitoring automatization | Launched | | |
| Joint platform for hydromet info exchange | Launched | | |
| Water reservoirs modellina | Done (initial pilot activity) | | |
| Inflow forecasting | Done | | |
| Water balance | Done (details tbc) | | |
| Mapping in the delta | Done | | |
| Information leaflet on floods | Done | | |
| Ecosystems restoration | | | |
| Water exchange btw the river main flow and delta | Done | | |
| Feasibility of construction of a fish nestling | Done | | |
| Afforestation | Done | | |
| Awareness raising | | | |
| Art competition " $\underline{\text{Colours}}$ of the Dniester" and the Dniester expedition | Done | | |
| Afforestation | Done | | |

been finalized and is operational. The model will be handed over to the Ukrainian Hydrometeorological Center by the end of the project (May 2017). Mr. Vitaliy Mokin, Vinnytisa University, gave an update on the recent developments with the water balance, i.e. that the system has been upgraded taking into account comments from some of the potential users. A training on its use was conducted in December 2016, the methodology and lessons learned provide a basis for a relevant piece of legislation on the water balances (ref. the Association Agreement and the WFD) in Ukraine. A draft regulation on the system use and a users agreement have been prepared (a procedure for their approval is tbc by the project end). Mr. Vasiliy Fisunov, Ukrainian Hydrometeorological Centre of Ukraine, made links between the Moldovan-Ukrainian information platform for exchange of hydrometeorological data and water balance system, i.e. that the latter could extract information from the platform; also information from SIRA - the Moldovan national system for exchange of water-related information from the four agencies - will be used for the information platform.

- 6. Mr. Nickolai Denisov, Zoi, presented the final version of the "Implementation Plan for the Strategic Framework for Adaptation to Climate Change in the Dniester River Basin", with the following groups of opportunities for implementation of adaptation measures ("cards on the table"):
 - transboundary IWRM, i.e. consideration of adaptation in the activities of the future Dniester River Basin Commission / the Institute of the Plenipotentiaries and under other bilateral agreements, in the implementation of the RBM plan, in the update of the rules of operation of the Dniester reservoirs,
 - the EU Association Agreement, including obligations under (but not limited to) the WFD and FD which account for the adaption to climate change,
 - national, sectoral and local development plans which are to consider climate change and incorporate the adaptation measures,
 - national climate change policy, including cooperation with the investment agencies, mainstreaming climate change issues into sectoral and local development documents,
 - international technical aid, which demands skills for application to such funds, close cooperation with ongoing and future projects to consider climate change in their design, support to private-public partnerships,
 - information and stakeholders awareness, which includes update of the available data and information, wide dissemination of the project results.

The project consultants, Ms. Katerina Melnicenco (Moldova) and Ms. Iryna Trofimova (Ukraine) briefly explained that the national consultations on the Implementation Plan allowed for useful revisions and inputs (e.g. including adaptation in the management of groundwaters into the Plan), the Plan is seen as a very important document, its development will be listed in the national communications, both states may use the

project results for application for international financing mechanisms (e.g. Green Climate Fund, the banks, EU Green Horizon).

- 7. Mr Alisher Mamadzhanov (UNECE) spoke of the funding for climate change adaptation in transboundary basins with the following key messages:
 - only 7% of international climate change finance is directed for adaptation,
 - there are only few transboundary climate change adaptation projects, only about 10 INDCs mention the transboundary dimension,
 - challenges for the climate finance include low level of awareness of the need for adaptation and sources
 of funding, difficulty in meeting funds' procedures and standards to access finance, lack of coherent
 policies, legal and regulatory frameworks and budget, addressing transboundary basins due to eligibility,
 need for all countries' consent, political difficulties,
 - a variety of financial instruments for climate financing include grants, carbon credits, concessional and commercial loans, guarantees, bonds, crowd funding. There are different levels of concessionality, and a mixture of various instruments is possible. Such funding often links climate, DRR and biodiversity/ecosystem financing mechanisms.

Some of the conclusions of a workshop organized by the Secretariat serving the Water Convention on financing climate change adaptation in transboundary basins (Geneva, September 2016) included a need to address the lack of capacity in river basin organisations (RBOs) and national authorities to prepare bankable project proposals, a need to generate replicable business models for financing climate change adaptation at the basin level, a need to put more emphasis on the transboundary dimension, which should be integrated into national adaptation projects. To address these, a follow up hands-on trainings on project preparation for financing climate change adaptation in transboundary basins under the Water Convention, in cooperation with the World Bank, EIB, AWF, INBO will be conducted in Dakar, Senegal in June 2017 where one representative from each Dniester basin country is invited. A short background report on climate change finance mechanisms for transboundary basins will be prepared for the workshop. He also introduced an INBO project incubation platform aimed to support the development of bankable projects on water and climate change adaptation.

8. A group work on available financing mechanisms for the Implementation Plan resulted in the following conclusions and suggestions.

Group 1. International climate financing

- Bilateral/basin-wide coordination is a must for application to the international funds,
- All the measures selected for implementation should be prioritized at the national level,
- The measures could be grouped into 1) institutional (legal), 2) implementation of concrete projects (the group focused on the ecosystem-based approach) which often require initial modest funding for feasibility studies, 3) development and implementation of demonstration projects
- Small grants could make a lot,
- Small rivers restoration should become a priority in each state (at a legal level),
- Moldova could apply to the Adaptation Fund, GEF and Green Climate Fund,
- Development of the PPP should be formed, it could be more efficient after awareness activities with local business,
- There should be powerful awareness campaigns.



Group 2. DRR-related financing

- Reserve funds should be created to be used for implementation of the adaptation measures,
- Regular public awareness campaigns are needed,
- Support from the country level (national or local level budget) should be obligatory.
- Purchase of new rescue equipment and machines is required.



Group 3. Biodiversity / ecosystem financing

- Development of demonstration projects,
- Creation of regulated fish nesting areas,
- Involvement of business organizations.
- 9. Several presentations on other current projects and their links with the Implementation Plan included:
 - EU-funded regional Clima East project (Moldova, presented by Ms. Rodica Iordanov) will be completed in autumn 2017, in Moldova it has resulted in the development of adaptation measures in 8 communities based on the results of the IfS project on adaptation to climate change in the Dniester basin,
 - ADA/ SDC "Water and sanitation" project (presented by Ms. Ingha Podoroghin, MD MOE) aims at legal, institutional capacity, RBMP implementation, development of the intersectoral water-information system SIRA (started in 2016, duration 3 years),
 - EU Water Initiative Plus (EUWI+, presented by Mr. Alisher Mamadhzanov, UNECE) is based on the National Policy Dialogues since 2006, started in September 2016, duration 3 years, implemented by the UNECE, OECD, International Office for Water in France and the Austrian Environment Agency. The project will work on 1) legal and regulatory framework, 2) RBM planning and monitoring and laboratory strengthening, 3) lessons learnt and communication.
 - One of the activities of a regional OSCE project on support to the Aarhus centres (Mr. Leonid Kalashnyk,
 OSCE) can contribute to promoting the Strategic Framework for Adaptation in the Dniester Basin at local
 level. The project implementation started in early 2017 and will run till late 2018,
 - EU-funded regional PPRD East 2 Programme (presented by Mr. Marco Massabo) focuses on prevention, preparedness and response to natural and man-made disasters in the Eastern Partnership Countries, started in 2014 and is due to be over in 2018. In Moldova and Ukraine it works on the EU Floods Directive, and among others, produced a draft protocol on floods prevention, preparedness and response in the transboundary Dniester basin. The document may guide the work of a relevant working group under the future Dniester River Basin Commission. The IfS project team has kindly requested the beneficiaries to share their feedback on the draft protocol.
 - The transboundary Dniester basin GEF project was presented by Ms. Tamara Kutonova, an OSCE Consultant. The project implementation will tentatively start in autumn 2017 and will be implemented for three years. It will focus on supporting national capacities to meet the requirements of the WFD (basinwide analysis, RBMP) in the context of the Dniester river basin, cooperation with the hydropower sector, and will include several demonstration projects, and support for twinning with the ICPDR. The GEF project will incorporate relevant deliverables of the IfS project.
- 10. At the concluding session the project participants were asked to provide feedback on the project. Those included:
 - the importance of the project for the RBMP under the WFD, and for meeting the obligations under the Paris Agreement was stressed,
 - delivery of valuable knowledge and experience,
 - a good balance between the strategic / policy level and the operational /concrete measures level,
 - there is a further need for strengthening the bilateral cooperation and a continued dialogue,

- there is a need for sustained political will and strong cross-sectoral cooperation (esp. on land use and hydropower),
- there is a need for ratifying and entry into force of the 2012 Dniester River Basin Treaty and restoring operations of the institute of the Plenipotentiaries under the 1994 Agreement.

Proposals for the future included:

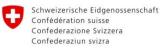
- attracting investments to implement the climate change adaptation measures identified during the current project,
- further activities at the local level,
- more cooperation with the basin councils,
- wide dissemination of the project results, e.g. via the MOEs and water authorities websites, at relevant meetings on the basin, local, sectoral level.
- 11. All the project materials, including the meeting presentations are available at a platform for exchange of experience on adaptation to climate change in transboundary basins (https://ehlm.unece.org/display/ClimateChange/Dniester).











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as part of the project

Climate Change and Security in Eastern Europe, Central Asia and the Southern Caucasus

AGENDA

13th Meeting of the Working Group on Flood Management and Climate Change Adaptation /

Concluding Project Meeting

Hotel Dacia, 135, 31 August 1989 Str., Chisinau, Republic of Moldova, 23 March 2017

The aim of the meeting is to review and discuss the final outcomes of the project and to discuss how to ensure sustainability and next steps.

| | 23 March (Thursday) | | | |
|---------------|---|--|--|--|
| 09:00 – 09:40 | Opening session (moderator - Leonid Kalashnyk, OSCE) Victor Morgoci, Deputy Minister of Environment of the Republic of Moldova (5 min.) Oleksander Bon, Head of Section on Water Ecosystems and Resource, Ministry of Ecology and Natural Resources of Ukraine (5 min.) Stephen Young, Deputy Head of the OSCE Mission to Moldova (5 min.) Bo Libert, Regional Adviser on Environment, UNECE (5 min.) EU Delegation to the Republic of Moldova tbc (5 min.) Alexander Karner, Counsellor & Head of Country Office, ADA Moldova (5 min.) | | | |
| 09:40 – 09:55 | 9:55 Results of the ENVSEC project "Climate Change and Security in Eastern Europe, Central Asia and the Southern Caucasus" funded by the EU Instrument for Stability (IfS) and the Austrian Development Agency (Christine Kitzler, OSCE) | | | |
| 09:55 – 10:45 | Update on global and national developments on water and climate relevant to transboundary cooperation and climate change in the Dniester basin (moderator – Radu Cazacu, Deputy Director of Agency "Apele Moldovei"): Recent global developments on water and climate (Sonja Koeppel, UNECE, 5 min.) The Dniester Treaty (Oleksandr Bon, MENRU, 5 min.) EU Association Agreements, with a focus on provisions on the transboundary cooperation, WFD, Floods and Nitrates Directives (Andrei Ursache, MOE MD, and Maryna Shymkus, MENRU, 10 min. Per country) Developments and linkages with the Implementation Plan and adaptation activities: climate | | | |

| | plans (NDCs, NAPs, etc., Vasile Scorpan, Moldovan Climate Office and Antonina Platonova, MENRU, 10 min. per country) | |
|---------------|---|--|
| | Implementation of adaptation measures within the project (moderator - Oleksandr Bon, MENRU) | |
| 10:45 – 11:00 | Overview of the implementation of the adaptation measures (Tamara Kutonova, OSCE consultant, 15 min.) | |
| 11:00 - 11:20 | Coffee break | |
| 11:20 – 11:40 | Reservoir management Presentation of the results of modelling of inflow to the Dniester reservoir (Yuriy Nabivanets, UHMI, 20 min for presentation and questions) | |
| 11:40 – 12:05 | Automated system of calculation of the water balance for the basin and its implementation in practice (Vitaliy Mokin, Vinnitsa National Technical University, 25 min.) | |
| 12:05 – 12:25 | Information platform Presentation of the joint hydrometeorological platform for data exchange and discussion on its further use, Vasyl Fisunov, Ukrainian Hydromet and TBC, Moldovan Hydromet (20 min.) | |
| | Implementation Plan for the Strategic Framework for Adaptation to Climate Change in the Dniester River Basin and its mainstreaming into national policies (moderator – Nickolai Denisov, Zoi Environment) | |
| 12:25 – 13:00 | Final version of the Implementation Plan (Nickolai Denisov, Zoi Environment, Ecaterina Melnicenco, Moldova and Iryna Trofimova, Ukraine) | |
| 13:00 – 14:00 | Lunch break | |
| 14:00 – 14:15 | Funding climate change adaptation in transboundary basins (Alisher Mamadzhanov, UNECE, 15 min.) | |
| 14:15 – 15:15 | Group Work on the available financing mechanisms for the Implementation Plan (1 hr) Possible questions for discussion: - international climate financing - DRR-related financing - biodiversity / ecosystem financing | |
| 15:15 – 15:30 | Summary of discussions in the groups | |
| 15:30 – 15:50 | Coffee break | |
| 15:50 – 16:20 | Panel discussion on other relevant projects and their contributions to the implementation of the Strategic Framework for Adaptation to Climate Change in the Dniester River Basin (moderator – Inga Podoroghin, MOE MD) - GEF project "Enabling transboundary cooperation and integrated water resources management in the Dniester River Basin" to be executed by the OSCE (Tamara Kutonova, OSCE consultant) - Clima East (tbc) - Austrian-Swiss Water and Sanitation sector project (Cyrille Valett) - EUWI+ (Alisher Mamadzhanov, UNECE) - OSCE project on Aarhus Centres in Eastern Europe (Leonid Kalashnyk, OSCE) - PPRD East 2 (Marco Massabi, CIMA Research Foundation) - Other - Discussion | |

| 16:20 – 17:05 | Concluding discussion on (Sonja Koeppel, UNECE and Tamara Kutonova, OSCE Consultant): - Strengthening of transboundary cooperation in the Dniester basin in the future - Principal project results, lessons learned, sustainability of project achievements and their mainstreaming into national policy - Project evaluation |
|---------------|--|
| 17:05-17:15 | Closing remarks |
| 18:00 | Dinner |

List of participants (in Russian)

СПИСОК УЧАСТНИКОВ

ИЗМЕНЕНИЕ КЛИМАТА И БЕЗОПАСНОСТЬ В БАССЕЙНЕ РЕКИ ДНЕСТР

13-е (заключительное) заседание рабочей группы по

снижению риска паводков и адаптации к изменению климата

Кишинев, Республика Молдова, 23 марта 2017 г.

| Nº | Имя | Организация / Должность | Контактная информация | |
|----|--------------------|--|--|--|
| | МОЛДОВА | | | |
| 1. | Андреев Алексей | Экологическое общество «Биотика» / Глава | Кишинев, Молдова Тел.: +373 22 498 837 Moб.: +373 69 150 554 andreev.biotica@gmail.com, alexei.andreev@mail.ru | |
| 2. | Беженару Герман | Независимый эксперт | Ул. Гренобля, 134, Кишинев – 2072, Молдова Тел.: +373 60 064 000 gherman.bejenaru@gmail.com | |
| 3. | Бужак Виктор | Независимый эксперт | Кишинев, Молдова victor.bujac@blacksea-riverbasins.net | |
| 4. | Завадский Анатолий | Министерство окружающей среды Республики Молдова, Агентство «Апеле Молдовей», Бассейновое водохозяйственное управление | Mo6.: +37379531310 anatolzav@gmail.com | |
| 5. | Игнатьев Иван | НПО «Экоспектр-Бендеры»/ Председатель | Ул. Кишиневская, 33/16, Бендеры 3200, Приднестровье, Молдова Тел.: +373 552 693 04 Моб.: +373 77 774 360, +373 60 446 020 ecospectrum@mail.ru, ecospectrum@gmail.com | |
| 6. | Иорданов Родика | Орхусский центр / Руководитель | Кишинев, Молдова r.iordanov@vox.md | |
| 7. | Желеапов Ана | Институт экологии и географии Республики Молдова | Academiei 1 Str., MD-2028, Chisinau, Moldova Тел.: +373 22 73 15 50 Тел. / факс: +373 22 73 98 38, 21 11 34 anajeleapov@gmail.com | |
| 8. | Казаку Раду | Министерство окружающей среды Республики Молдова, Агентство «Апеле Молдовей» /Заместитель начальника | Кишинев, Молдова Тел.: +373 22 280 962, 280 700 radu.cazacu@apele.gov.md | |

| Nº | Имя | Организация / Должность | Контактная информация |
|-----|------------------|---|---|
| 9. | Кожокару Анна- | Министерство окружающей среды | Кишинев, Молдова |
| | Мария | Республики Молдова / | Тел.: +373 22 20 45 38 |
| | | Консультант | ana.maria.cojocaru@mediu.gov.md, ana- |
| | | · | mariya@mail.ru |
| 10. | Коробов Роман | Международная экологическая | Пер. Театральный, 11а, Кишинев 2012, |
| | | ассоциация хранителей реки «Эко- | Молдова |
| | | ТИРАС» / Эксперт по изменению | Моб.: +373 69 166 687 |
| | | климата | rcorobov@gmail.com |
| | | | |
| 11. | Мачук Борис | Агентстов геологии и минеральных | Кишинев, Молдова |
| | , . | ресурсов Респулики Молдова | geofond@agrm.gov.md |
| | | , | |
| 12. | Мельниченко | Независимый консультант | Ул. Асаки, 69, оф. 33, Кишинев, Молдова |
| | Екатерина | , | Тел.: +373 22 520 860 |
| | ' | | katea.melnicenco@gmail.com |
| | | | |
| 13. | Мельничук | Институт экологии и географии / | Ул. Академическая, 1, Кишинев 2028, Молдова |
| | Орест Николаевич | Начальник лаборатории | Тел.: +373 22 738 015 |
| | | гидрологии | Моб.: +373 68 456 731 |
| | | | melniciuc@rambler.ru |
| 14. | Мутаф Виталий | Служба гражданской защиты и | Кишинев, Молдова |
| | | чрезвычайных ситуаций / | vmutaf@mail.ru |
| | | Заместитель начальника | |
| | | Управления Гражданской Защиты | |
| | | Службы ГЗ и ЧС МВД РМ | |
| 15. | Мэлджиняну | Экологическое общество | Кишинев, Молдова |
| | Габриел | «Биотика» / Член Совета | lex_rex_lex@yahoo.com |
| | | | |
| 16. | Пеньков Михаил | Независимый консультант | Кишинев, Молдова |
| | | | Тел.: +373 79 004 213 |
| | | | Моб.: + 373 69 486 740 |
| | | | penkovmihails@gmail.com |
| 17. | Подорожин Инга | Министерство окружающей среды | Ул. Космонавтов, 9, Кишинев 2005, Молдова |
| | | Республики Молдова / | Тел.: +373 22 20 45 03 |
| 4.0 | 2 7 2 2 2 | Государственный секретарь | inga.podoroghin@mediu.gov.md |
| 18. | Ройбу Михаил | Гидрометеорологическая служба | Кишинев, Молдова |
| | | Республики Молдова / Директор | Тел.: +373 22 77 35 00, 280 700 |
| | | | mihail.roibu@meteo.gov.md, |
| | | | mihail.roibu@gmail.com |
| 19. | Серенко Людмила | Служба гражданской защиты и | Кишинев, Молдова |
| | | чрезвычайных ситуаций / | Тел.:+373 22 738 501; +373 22 738 544 |
| | | Консультант | Моб.: + 373 69 191 034 |
| | | | serenco@meteo.md |
| 20. | Синяева Татьяна | Международная ассоциация | Пер. Театральный, 11а, Кишинев 2012, |
| | | хранителей реки Eco-TIRAS / | Молдова |
| | | Координатор проектов | Тел./факс: +373 22 225 615, +373 22 550 953 |
| | | | ecotiras@mail.ru |
| 21. | Сирбу Ана | Министерство окружающей среды | Ул. Константина Тенасе, 9, Кишинев 2005, |
| | | Республики Молдова, Дирекция по | Молдова |
| | | управлению водами / Консультант | Тел.: +373 22 20 45 30 |
| | | | |

| Nº | Имя | Организация / Должность | | Контактная информация |
|-----|-------------------------|---|-------|--|
| | | | sirbı | u.ana@mediu.gov.md |
| | | | | |
| 22 | C D | | | |
| 22. | Скорпан Василе | Климатический офис Респулики Молдова / Глава | | инев, Молдова orpan@yahoo.com |
| 23. | Сыродоев Геннадий | Институт экологии и географии | | мрапсеуапоо.com Академическая, 1, Кишинев 2028, Молдова |
| 25. | Сыродоев геннадии | Академии наук Молдовы | | : +373 22 739 248 |
| | | Академий паук Молдовы | | .: +373 69 154 003 |
| | | | | doev_g@rambler.ru |
| 24. | Талмазан Игорь | Министерство окружающей среды | | Сонстантина Тенасе, 9, Кишинев 2005, |
| | · | Республики Молдова / Заместитель | Мол | дова |
| | | министра | Тел.: | : +373 22 204 507 |
| | | | | talmazan@mediu.gov.md |
| 25. | Титов Дан | Государственная | | ренобля, 134, Кишинев – 2072, Молдова |
| | | гидрометеорологическая служба | Тел., | /факс: +373 22 773 622 |
| | | Республики Молдова | | |
| 26. | Тромбицкий Илья | Международная ассоциация | Пер. | Театральный, 11а, Кишинев 2012, |
| | | хранителей реки «Эко-ТИРАС» / | Мол | дова |
| | | Директор | Тел., | /факс: +373 22 225 615, +373 22 550 953 |
| | | | | .: +373 69 121 726 |
| | | | | rom@mail.ru, ecotiras@mtc.md |
| 27. | Урсаке Андрей | Министерство окружающей среды | | Константина Тенасе, 9, Кишинев 2005, |
| | | Республики Молдова/Начальник | | дова |
| | | отдела водных ресурсов, почв и | | : +373 22 204 513 che@mediu.gov.md, |
| | | недр | | iesursache@gmail.com |
| 28. | | | | |
| | | | | |
| | | | | |
| 29. | Челак Диана | Независимый эксперт | | инев, Молдова |
| | | | | .: +373 794 52 725 |
| | | | celac | cdi@gmail.com |
| 30. | Череш Валентина | Государственная | Ул. Г | ренобля, 134, Кишинев – 2072, Молдова |
| | | гидрометеорологическая служба | Тел.: | : +373 22 77 35 18 |
| | | Республики Молдова, Отдел | valer | ntina.ceres@meteo.gov.md |
| | | гидрологии | | |
| | | УКРАИНА | | |
| 31. | Бонь Александр | Министерство экологии и природнь | | Ул. Митрополита В. Липковского, 35, |
| | Витальевич | ресурсов Украины / Начальник отде. | ла | Киев – 03035, Украина |
| | | водных экосистем и ресурсов | | Тел.: +380 44 206 31 76 bon@menr.gov.ua |
| 32. | Гайванович Василь | Посольство Украины в Республике | | 17, ул. Василя Лупу, Кишинев, 2008, |
| ٥٤. | ו מאוטמווטפאוז טמכאוווס | Молдова / Второй секретарь по | | 17, ул. василя лупу, кишинев, 2008, Молдова |
| | | экономическим вопросам | | Тел.: + 373 22 582 151 |
| | | | | vasyl.hayvanovych@mfa.gov.ua |
| | 1 | ı | | , , , , , , |

| Nº | Имя | Организация / Должность | Контактная информация |
|-----|--------------------|---|--|
| 33. | Гричулевич Лилия | Черноморский женский клуб / | Одесса, Украина |
| | | Координатор проектов | Моб.: +380 96 319 55 28, +380 95 731 50 |
| | | | 23 |
| | | | michlilya@yandex.ua |
| 34. | Губанов Владимир | Нижнеднестровский национальний | Одесса, Украина |
| | Владимирович | природный парк / Заместитель | Тел.: +380 48 746 53 07 |
| | | директора по науке | Моб.: +380 98 005 59 48 |
| | | | dniestrpark@gmail.com |
| 35. | Дзюба Наталья | Украинский центр экологических и | Киев, Украина |
| | Николавевна | водных проектов / Эксперт | Моб.: +380 93 406 93 43 |
| | | | natadz@mail.ru |
| 36. | Дьяков Олег | Центр региональных исследований / | Ул. Гайдара, 3-а, Одесса — 65074, Украина |
| | | Старший научный сотрудник, менеджер | Тел.: +380 48 799 89 91 |
| | | проектов | Моб.: +380 94 950 19 91б +380 66 325 71 |
| | | | 03 |
| | | | dyakov_oleg@ukr.net, utsc@te.net.ua |
| 37. | Козар Олег | Управление Ивано-Франковского | Тел.: +380 342 52 31 37 |
| | Павлович | облводресурсов / Заместитель | Моб.: +380 6 6831 58 97 |
| | | начальника | 07041971@i.ua |
| 38. | Михальский | Специалист по моделированию | Киев, Украина |
| | Александр | | michalsky.alex@gmail.com |
| 20 | - | D | |
| 39. | Мокин Виталий | Винницкий национальный технический | Ул. Хмельницкое шоссе, 95, Винница |
| | Борисович | Университет /Заведующий кафедры | 21021, Украина о Тел.: +380 432 43 51 35 |
| | | компьютерного эколого-экономическог | моб.: +380 432 43 51 35 Моб.: +380 67 780 49 51 |
| | | мониторинга и инженерной графики | vbmokin@gmail.com |
| 40. | Набиванец | Украинский научно-исследовательский | Пр. Науки, 37, Киев – 03028, Украина |
| 40. | Юрий Богданович | гидрометеорологический институт | Тел.: +380 44 525 87 80 |
| | Торин вогданови т | (УкрНИГМИ) / Заместитель директора | Mo6.: +380 67 986 10 47 |
| | | (экричитину у заместитель директора | Факс: +380 44 525 53 63 |
| | | | krava@uhmi.org.ua |
| 41. | | Специалист по моделированию | oi.pylypenko@gmail.com |
| | Пилипенко Александ | enediamina mellemberania | anpy, ypamic C g.mamacin. |
| | р | | |
| | | | |
| 42. | Платонова Антонина | Министерство экологии и природных | Ул. Митрополита В. Липковского, 35, |
| | | ресурсов Украины, Департамент по | Киев – 03035, Украина |
| | | вопросам климатических изменений и | Моб.: +380 95 301 23 19 |
| | | защиты озонового слоя, Отдел | platonovaantonina@gmail.com |
| | | климатической политики и отчетности / | |
| | | Главный специалист | |
| 43. | Солонинка | Днестровско-Прутское бассейновое | Ул. Красноармейская, 194б, Черновцы, |
| | Станислав | управление водных ресурсов / Начальни | · · |
| | | информационного отдела | Mo6.: +380 95 538 69 33 |
| | | | monit_vod@ukr.net |
| 44. | Трофимова Ирина | Украинский научно-исследовательский | Киев, Украина |
| 44. | трофимова ирина | гидрометеорологический институт | Моб.: +380 50 331 75 31 |
| | | тидрометеорологический институт (УкрНИГМИ) | itrofimova@ukr.net |
| | | (Aubitantani) | ta omnova@akt.net |

| Nº | РМЯ | Организация / Должность | | Контактная информация |
|-----|-----------------------|-----------------------------------|---------|--|
| 45. | Шимкус Марина | Министерство экологии и природнь | IX | Ул. Митрополита В. Липковского, 35, |
| | | ресурсов Украины, Отдел правового |) | Киев – 03035, Украина |
| | | обеспечения и представительства | | Тел.: +380 44 248 49 33 |
| | | интересов | | m.shimkus@menr.gov.ua |
| | | министерства в судебных и | | |
| | | правоохранительных органах, Отдел | л по | |
| | | вопросам адаптации европейского | | |
| | | законодавтельства / Главный | | |
| | | юрисконсульт | | |
| 46. | Фисунов | Украинский гидрометеорологически | ий | Ул. Золотоворотская, 6-В, Киев-01030, |
| | , Василий Иванович | центр / Заместитель директора по | | Украина |
| | | информационным технологиям | | Тел.: +380 44 239 93 66 |
| | | | | vasiliy@meteo.gov.ua |
| | | МЕЖДУНАРОДНЫЕ ОРГА | НИЗА | |
| 47. | Валетт Сирил | Проект «Укрепление | , | isterul Mediului al Republicii Moldova, |
| 47. | Балет Сирил | институциональной базы в области | | Constantin Tănase 9 |
| | | водных ресурсов в Молдове» / | | ul 614 A |
| | | Руководитель команды проекта | | +373 (0) 22.204.510 |
| | | Руководитель команды проекта | | +373 (0) 22.204.310 D.: +373 (0) 680 34 157 |
| | | | | |
| 48. | Augrugorium Conroŭ | PPRD East Programme Phase 2 / | | pe: cyrille.vallet_professional |
| 40. | Анагностини Сергей | _ | | A Akademika Bogomoltsa St, office 101, Kyiv |
| | | Руководитель команды | | 24, Ukraine |
| | | | | +380 44 253 2343 |
| | | | | +380 44 253 0847 +380 95 242 1640 |
| | | | | pe: sergej.anagnosti |
| 49. | Богдан Дана | Бюро Координатора деятельности | | Secretariat / OCEEA, Wallnerstrasse 6, Vienna |
| 45. | Богдан дана | ОБСЕ в сфере экономики и | |), Austria |
| | | · · | | +43 1 51436 6885 |
| | | | | bogdan@osce.org |
| | | Cerpetaphat/Accherent hipoerros | uaria.i | boguari@osce.org |
| 50. | Даррас Александр | Делегация ЕС в Республике | Киш | инев, Молдова |
| | | 1 | | ndre.darras@eeas.europa.eu |
| F4 | . | 2 | 44.4 | 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 |
| 51. | Денисов Николай | Экологическая сеть | | .3 ch. des Anemones, Geneva 1219, |
| | | «Зой»/Региональный директор | Switze | |
| | | | | +41 22 917 8281 |
| | N/ A | 5 | | olai.denisov@zoinet.org |
| 52. | Жовтенко Анна | Бюро Координатора ОБСЕ по | | Стрелецкая, 16, Киев 01034 |
| | | экономической и экологической | | : +380 44 492 03 82 |
| | | деятельности, Координатор | | 5.: +380 50 468 91 45 |
| | | проектов ОБСЕ в Украине / | anna | a.zhovtenko@osce.org |
| E2 | Vалашини Паагия | Ассистент проектов | 000 | E Socretariat / OCEEA MAIlling antiques |
| 53. | Калашник Леонид | Бюро Координатора деятельности | | E Secretariat / OCEEA, Wallnerstrasse |
| | | ОБСЕ в сфере экономики и | | enna - 1010, Austria |
| | | окружающей среды, | | +43 1 514 36 6237 |
| | | Секретариат/Координатор | ieon | id.kalashnyk@osce.org |
| | | экологической программы | | |

| Nº | Имя | Организация / Должность | Контактная информация |
|-----|----------------------|--|--|
| 54. | Мамаджанов Алишер | ЕЭК ООН, Водная Конвенция / Эксперт по вопросам окружающей | Palais des Nations, 1211 Geneva, 10, Switzerland Tel.: +41 22 917 1218 |
| | | среды | Fax: +41 22 917 0107 |
| | | | alisher.mamadzhanov@unece.org |
| 55. | Карнер Александр | Австрийское агентство по развитию / Советник, Глава странового офиса | Ул. Матеевичи 23В, 2009 Кишинев, Молдова |
| 56. | Кантинер Андрей | Швейцарское агентство по развитию (SDC) | Кишинев, Молдова |
| 57. | Китслер Кристина | Бюро Координатора деятельности | OSCE Secretariat / OCEEA, Wallnerstrasse |
| | | ОБСЕ в сфере экономики и | 6, Vienna - 1010, Austria |
| | | окружающей среды, | Tel.: +43 1 51436 6671 christine.kitzler@osce.org |
| | | Секретариат/Координатор проекта | |
| 58. | Кутонова Тамара | Консультант ОБСЕ | +380 93 124 03 28 |
| | | | tamara.kutonova@gmail.com |
| 59. | Либерт Бу | ЕЭК ООН / Региональный | Женева, Швейцария |
| | | консультант | bo.libert@unece.org |
| 60. | Массабо Марко | CIMA Research Foundation/ Project | Via A. Magliotto 2, 17100 Savona, Italy |
| | | Leader | Тел.: +390 19 230 271/ 2227 |
| | | | Моб.: <u>+39 348 7747016</u> |
| | | | Skype: marco_massabo |
| 61. | Петрусевичи | Австрийское агентство по | Ул. Матеевичи 23В, 2009 Кишинев, Молдова |
| | Даниела | развитию / Эксперт по водным | Тел.: +373 22 73 43 70 |
| | | ресурсам и санитарии | daniela.petrusevschi@ada.gv.at |
| 62. | Панна-Карп Силвия | ПРООН в Молдове, Кластер по | 131, 31 August Str., MD-2012 Кишинев, |
| | | вопросам изменения климата, | Молдова |
| | | окружающей среды и энергетики / | Тел.: +373 22 269 121, 220 045, ext. 121 |
| | | Аналитик Программы | Моб.: +373 69 888 980 |
| | | | silvia.pana-carp@undp.org |
| 63. | Янг Стивен | Миссия ОБСЕ в Молдову / | Ул. Алексея Матиевичи, 75, MD-2009, Кишинев, |
| | | Заместитель Главы Миссии | Молдова |
| | | | Тел.: +373 22 887 802 |
| | | | Факс: +373 22 22 34 96 |
| | | | stephen.young@osce.org |