



WORLD
METEOROLOGICAL
ORGANIZATION



International Workshop on Water Scarcity Taking action in transboundary basins and reducing health impacts

11-12 December 2017

Salle XII, Palais des Nations, Geneva, Switzerland,
starting at 10.00 a.m. on Monday, 11 December 2017

PROGRAMME

The workshop aims **to accelerate actions to address water scarcity and thereby reduce the related health, social, economic and environmental risks**, by sharing practical solutions, in particular from the perspective of transboundary water cooperation and health impacts. It will **review measures** to prevent scarcity and mitigate its consequences taken in transboundary basins and at national level, identify **good practices** and **lessons learned** and formulate some **conclusions** for further activities.

Day 1 11 December 2017

10:00 – 11.15 **Opening session: setting the scene**

Moderators: Mr. Luca Lucentini, National Institute of Health, Italy and Ms. Sibylle Vermont, Federal Office for the Environment, Switzerland

- Opening speech, *Mr. Andrey Vasilyev, Deputy Executive Secretary, United Nations Economic Commission for Europe (UNECE)*
- Opening remarks from the lead party of the Water Convention, *Ms. Sibylle Vermont, Switzerland*
- Opening remarks from the lead party of the Protocol on Water and Health, *Mr. Luca Lucentini, National Institute of Health, Italy*
- Introduction to the programme of the event, *Ms. Francesca Bernardini, UNECE*
- Keynote speech: water scarcity trends on a global level, *Mr. Michel Jarraud, former Secretary-General of the World Meteorological Organization (WMO) and former chair of UN-Water*
- Keynote speech: water scarcity and health, *Mr. Oliver Schmoll, WHO Regional Office for Europe*
- Interactive element: mapping of participants

11.15 – 13.00 **Session 1: Policy and institutional setups to address water scarcity**

Moderators: Mr. Bob Stefanski, WMO and Mr. Moussa Mahamat Alifa, Ministry of Water and Sanitation, Chad

- Integrated Drought Management Programme (IDMP): guidance on drought management plans and tools, *Mr. Bob Stefanski, World Meteorological Organization (WMO), Mr. Frederik Pischke, Global Water Partnership (GWP)*
- Addressing water scarcity in agriculture: the Global Framework on Water Scarcity in Agriculture (WASAG), *Mr. Ruhiza Jean Boroto, Food and Agriculture Organization of the United Nations (FAO)*
- IGAD Drought Disaster Resilience and Sustainability Initiative (IDDRSI), *Mr. John Kabayo, Intergovernmental Authority on Development (IGAD) (tbc)*
- Addressing water scarcity in the Alpine region: lessons learned and planned measures, *Mr. Paolo Angelini, Ministry of the Environment, Land and Sea, Italy*
- Drought management in Spain, *Mr. Santiago González Muñoz, Ministry of Health, Social Services and Equality, Spain*
- Discussion

13.00-15:00 **Lunch break**

15.00 – 17.00 **Session 2: Addressing water scarcity through transboundary cooperation: legal and practical experiences**

Moderator: Ms. Sonja Koeppel, UNECE

- How do international agreements at the global and basin level address water scarcity, *Mr. Owen McIntyre, Cork University*
- Working on low water in the Rhine basin, *Mr. Adrian Schmid-Breton, International Commission for the Protection of the Rhine*
- How drought has triggered creation of a river basin organization in the Senegal basin, *Ms. Aram Ngom Ndiaye, Organization for the Development of the Senegal Basin*
- How droughts are addressed in the transboundary water cooperation between Mexico and the United States of America as well as within Mexico, *Mr. Edwin Fernando Zetina Robleda, National Water Commission, Mexico*
Remarks by *Mr. Dan Bunk and Mr. Alan Butler, U.S. Bureau of Reclamation (USBR), United States of America*
- Not allowing boundaries to hamper water resources systems developments for effective utilization of the transboundary INCO Maputo River Basin, *Mr. Beason Mwaka, Department of Water, South Africa (tbc)*
- Water allocation provisions in the transboundary agreement on the Helmand basin, shared by Afghanistan and Iran, *Mr. Kawa Sahab, Ministry of Energy and Water, Afghanistan*
- Discussion

17.00 -18.00 **Group work**

- Which measures for addressing water scarcity are beneficial and effective from a transboundary perspective?
- Is water scarcity an issue in your basin / country? How is it addressed or planned to be addressed at the transboundary level?
- What are the health implications of water scarcity in your basin/ country and how are they addressed?

18:30 **Reception**

Day 2 12 December 2017

10.00 - 10.20: Reporting back from Day 1

10.20 - 12.00 **Session 3: Practical measures to address water scarcity from the health perspective**

Moderator: Mr. Luca Lucentini, National Institute of Health, Italy

- The WHO sanitation safety plan (SSP) approach – a practical tool for managing health risks from wastewater reuse, *Ms. Kate Medicott, World Health Organization (WHO)*
- Regulatory aspects of wastewater reuse and SSPs, *Ms. Ghada Kassab, University of Jordan*
- Climate resilient water safety planning, *Mr. Michael Hammond, World Health Organization (WHO) consultant*
- Impact of droughts on water quality: data and risk analysis, *Mr. Enrico Veschetti, Mr. Mario Cerroni, National Institute of Health, Italy*
- Discussion

12.00 – 13.30 **Marketplace of approaches, tools and examples for addressing water scarcity**

Share practical experiences to address water scarcity from the health perspective and in transboundary basins: interactive session

1. Addressing water scarcity in agriculture, *Mr. Ruhiza Jean Boroto, FAO*
2. Environmental flows: successful case studies, *Mr. Dean Muruven, WWF*
3. Practical measures for reducing water scarcity in the lake Chad basin, *Mr. Rohallati Ndara, Lake Chad Basin Commission*
4. Monitoring low water at the basin and national level: the Meuse river basin and the Dutch system, *Mr. Willem Schreurs, International Meuse Commission and Jos Timmerman, Wageningen University, the Netherlands*
5. Danube experience and national drought plan development in the context of the European Union Water Framework Directive, *Ms. Sabina Bokal, IDMP Central Eastern Europe*
6. Building climate resilience through improved planning: demonstration of the Flood and Drought Portal, *Mr. Raul Glotzbach, International Water Association*
7. From EU guidelines on water reuse to practical applications, *Ms. Laura Achene, National Institute of Health, Italy*
8. Water scarcity provisions in the transboundary Chu-Talas basin, *Mr. Erkin Orolbaev, National Policy Dialogues on IWRM in Kyrgyzstan; Ms. Indira Akbozova, Chu Talas Basin Commission; Ms. Svetlana Dolgikh, National Hydrometeorological Service "Kazhydromet"*
9. Conjunctive use of surface water and ground water for drought management: example of the Orange basin, *Mr. Lenka Thamae, Orange-Senqu River Commission (ORASECOM)*
10. The potential of wastewater treatment as a gateway for transboundary cooperation, *Mr. Esteban Boj Garcia, Independent Consultant*
11. Facilitating financing of transboundary adaptation projects through the incubation platform, *Ms. Florence Pintus, International Office for Water*

13.30-15:00 **Lunch break**

15.00 – 16.30 Session 4: The enabling environment for addressing water scarcity

Moderators: Mr. Ruhiza Jean Boroto, FAO and Ms. Sibylle Vermont, Federal Office for the Environment, Switzerland

- Financing drought management measures, *Mr. Andre Oosterman, European Investment Bank (EIB)*
- Drought risk management safeguarding ecosystems: towards a strategic approach, *Mr. Paul Sayers, WWF Consultant*
- Panel discussion with:
 - *Mr. Santiago González Muñoz, Ministry of Health, Social Services and Equality, Spain*
 - *Mr. Niokhor Ndour, Ministry of Water and Sanitation, Senegal*
 - *Ms. Silvia Margarita Hernandez de Larios, Ministry of Environment and Natural Resources, El Salvador*
 - *Mr. David Hebart-Coleman, African Development Bank*
 - *Mr. Mukhtar Zhakenov, Ministry of Agriculture, Kazakhstan (tbc)*

16.30 – 18.00 Session 5: Conclusions and next steps

Moderators: Mr. Niels Vlaanderen, Ministry of Infrastructure and the Environment, The Netherlands, Ms. Sibylle Vermont, Federal Office for the Environment, Switzerland and Mr. Luca Lucentini, National Institute of Health, Italy

- Discussion in small groups: What was the most important issue you have learned during the workshop? What will you do differently afterwards/ what do you take home? What activities should the partner organizations (UNECE, WHO, FAO, INBO, EIB, WMO, GWP, IW:LEARN) and others focus on in the future in terms of water scarcity?
- Plenary discussion
- Conclusions of the workshop and closing remarks