



PROGRAMME OF THE GEF INTERNATIONAL WATERS SCIENCE CONFERENCE

GEF International Waters Science Conference 2012 (IWSC2012)

24-26 September 2012, Bangkok, Thailand



Conference Objectives

- To present and discuss science-based persistent and emerging issues for international waters for the next decade.
- To provide a science-policy setting for discussing how science can best help society to sustainably manage water systems at the global, regional and local level.
- To highlight and disseminate the findings of the GEF International Waters Science Project, including good practices on the use and application of science by GEF International Waters projects in the last two decades.

Monday - 24 September – Day I

08:45 – 10:00

Session I: Opening Plenary

Conference Room 3

Moderator: Salif Diop, Chair, IWSC2012 Organizing Committee and Senior Programme Officer, Scientific Assessment Branch, United Nations Environment Programme (UNEP)

Welcome by Conference Host: Rae Kwon Chung, Director, Environment and Development Division, Representative of the Executive Secretary, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

Remarks by Swedish Ambassador: H.E. Klas Molin, Ambassador, Embassy of Sweden, Thailand

Expected Outcomes of the Conference: Ivan Zavadsky, International Waters Focal Area Coordinator, Secretariat of the Global Environment Facility (GEF)

Key Findings of the IW:Science Project: Zafar Adeel, Director, United Nations University Institute for Water, Environment and Health (UNU-INWEH)

Short Welcome Address by GEF: Naoko Ishii, Chief Executive Officer, GEF (by video)

Short Welcome Address by UNEP: Ibrahim Thiaw, Director, Division of Environmental Policy Implementation, UNEP

Opening Remarks: H. E. Rejoyce Mabudafhasi, Deputy Minister, Ministry of Water and Environmental Affairs, South Africa

Keynote Address “Setting the Science-based Agenda for International Waters for the Next Decade”: Joseph Alcamo, Chief Scientist, UNEP and Chair, IWSC2012 Scientific Advisory Committee

Official Opening by the Host Country: H. E. Dr. Prodprasob Surasawadi, Minister of Science, Ministry of Science and Technology, Thailand

10:00 – 10:30
NETWORKING BREAK - Group Photo Session
Objectives of Plenary Sessions:

- To identify persistent and emerging issues for international waters from the GEF project perspective.
- To identify persistent and emerging issues for international waters from the perspective of the science community outside of the GEF community.
- To discuss best practices of using science in international waters projects, within and outside of the GEF project portfolio.

Expected Output:

- A wide range of suggestions on programmatic priorities and effective use of science in international waters management over the next decade. These suggestions will be discussed and further refined in the Working Groups.

10:30 – 11:30
Session 2: Aquifer Plenary
Conference Room 3

Moderator: Ofelia Tujchneider, Professor, Universidad Nacional del Litoral and CONICET, Argentina

Keynote Presentation: Jac van der Gun, Senior Consultant, UNESCO-International Hydrological Programme (IHP), The Netherlands

External Discussant: Cheikh Bécaye Gaye, Professor, Department of Hydrogeology, University of Dakar, Senegal

Panel Discussion on Aquifers:

1. Djamel Latrech, Northwest Sahara Aquifer Project, Algeria
2. Eberhart Braune, Western Cape University, South Africa
3. Callist Tindimugaya, Ministry of Water, Uganda
4. Julio Kettelhut, La Plata River Basin Project, Brazil

Rapporteur: Emmanuel Naah, former UNESCO Regional Hydrogeologist for Africa, Cameroon, and Patrick Weiler, IW:LEARN Project

11:30 – 12:30
Session 3: Lakes Plenary
Conference Room 3

Moderator: Masahisa Nakamura, Research Center for Sustainability and Environment, Shiga University, Japan

Keynote Presentation: Kelly Munkittrick, Scientific Director, Canadian Water Network, Canadian Rivers Institute, University of New Brunswick, Canada

Discussant: Walter Rast, Director, International Center for Watershed Studies, Texas State University, USA

Panel Discussion on Lakes:

1. Raymond Mngodo, Lake Victoria Environmental Management Project, Tanzania
2. Sergey Kudelya, Lake Baikal Project, Russia
3. Adelina Santos-Borja, Resource Management and Development Department, Laguna Lake Development Authority, Philippines
4. Alejandro Juárez Aguilar, Corazón de la Tierra, Mexico

Rapporteur: Christopher Magadza, University of Zimbabwe, Zimbabwe, and Isabelle Vanderbeck, UNEP

12:30 – 13:00
Special Event: Launch of the IW:Science Synthesis Report **Conference Room 3**
13:00 – 14:00
LUNCH BREAK - Poster Sessions
UNCC Dining Room

14:00 – 15:30 **Session 4: Rivers Plenary** **Conference Room 3**

Moderator: Charles Biney, Executive Director, Volta Basin Authority, Ghana
Keynote Presentation: Mukand Babel, Coordinator of Water Engineering and Management, Asian Institute of Technology, Thailand
Discussant: Charles Vörösmarty, Director, Environmental Cross-Roads Initiative, Department of Civil Engineering, City University of New York, USA
Panel Discussion on Rivers:

1. Norbert Fenzl, Amazon River Project, Brazil
2. Cletus Springer, Organization of American States, Saint Lucia
3. Christoph Mor, Orange-Senqu River Project, South Africa
4. Peter Bjørnsen, UNEP-DHI Centre, Denmark

Rapporteur: Richard Lawford, Global Water System Project, Canada, and Andrew Dansie, UNU-INWEH

15:30-16:00 **NETWORKING BREAK** **Thai Canteen Room**

16:00 – 16:30 **Session 5: Open Oceans (OO) Plenary** **Conference Room 3**

Moderator: Robert Duce, Professor Emeritus, Department of Oceanography Texas, A&M University, USA
Keynote Presentation: Chris O'Brien, Regional Coordinator, Bay of Bengal LME Project, FAO
Discussant: Corinne Le Quéré, Director, Tyndall Centre for Climate Change Research, University of East Anglia, UK
Rapporteur: Carl Lundin, IUCN Marine Programme, Switzerland, and Takehiro Nakumura, UNEP

16:30 – 17:30 **Session 6: Large Marine Ecosystems (LME) Plenary** **Conference Room 3**

Moderator: Kenneth Sherman, Director, Large Marine Ecosystem Program, National Oceanic and Atmospheric Administration, USA
Keynote Presentation: Annadel Cabanban, Senior Fisheries Expert, Sulu-Celebes Sea Sustainable Fisheries Management Project, Philippines
Discussant: Qisheng Tang, Professor, Chinese Academy of Engineering, China
Panel Discussion on LME and Open Oceans:

1. Porfirio Alvarez Torres, Gulf of Mexico LME Project, Mexico
2. Chris Corbin, Caribbean Regional Seas Programme, Jamaica
3. Hashali Hamuakuaya, Benguela Current LME Project, Benguela Current Commission, Namibia
4. Birane Sambe, Canary Current LME Project, Senegal
5. Ramesh Ramachandran, Land-Ocean Interactions in the Coastal Zone (LOICZ), Institute for Ocean Management, Anna University Chennai, India
6. Patrick Debels, Caribbean Sea LME, Colombia

Rapporteur: Laurence Mee, Scottish Association for Marine Sciences, UK, and Marcus Lange, LOICZ

17:30 – 18:00 **Session 7: Wrap-up Day I** **Conference Room 3**

Wrap-up Day I: Joseph Alcamo, Chief Scientist, UNEP

18:00 – 20:00 **Welcome Reception** **Public Foyer and Garden Area**

Tuesday - 25 September – Day 2

09:00 – 09:30

Session 8: Planning for Day 2

Conference Room 3

Introduction to the Parallel Working Groups and Scientific Networks: Zafar Adeel, UNU-INWEH

09:30 – 11:00

Session 9: Parallel Working Groups - By water body types

Room A, G, F, H

Objectives of Parallel Working Groups on Water Body Types

- To identify persistent and emerging issues facing respective transboundary water body types.
- To discuss the science required to address these issues.
- To discuss how the status and sustainable management of transboundary waters can be improved through the use of science and the consideration of cross-cutting issues.

Expected Outputs:

- A list of science-based priority issues for guiding research and management of transboundary waters.
- Concrete recommendations for the GEF portfolio on the use of science to address transboundary waters issues over the next ten years.

9.1 Aquifer Working Group

Room G

Chair: Andrea Merla, Independent Consultant, Italy

Rapporteur: Holger Treidel, UNESCO-IHP, France

9.2 Lakes Working Group

Room H

Chair: Kelly Munkittrick, Scientific Director, Canadian Water Network, Canadian Rivers Institute, Canada

Rapporteur: Daniel Olago, Senior Lecturer, Department of Geology, University of Nairobi, Kenya

9.3 Rivers Working Group

Room F

Chair: Charles Biney, Executive Director, Volta Basin Authority, Ghana

Rapporteur: Paul Taylor, former Director of UNDP CAP-Net Programme, UK

9.4 Large Marine Ecosystem and Open Oceans Working Group

Room A

Co-Chairs: Annadel Cabanban, Senior Fisheries Expert, Sulu-Celebes Sea Sustainable Fisheries Management Project, Philippines, and Hartwig Kremer, Chief Executive Officer, LOICZ, Germany

Rapporteur: Jerker Tamelander, UNEP, Thailand

11:00 – 11:30

NETWORKING BREAK

Thai Canteen Room

11:30 – 12:30

Session 9 (continued): Parallel Working Groups - By water body types

9.1 Aquifer Working Group

Room G

Chair: Andrea Merla, Independent Consultant, Italy

Rapporteur: Holger Treidel, UNESCO-IHP, France

9.2 Lakes Working Group

Room H

Chair: Kelly Munkittrick, Scientific Director, Canadian Water Network, Canadian Rivers Institute, Canada

Rapporteur: Daniel Olago, Senior Lecturer, Department of Geology, University of Nairobi, Kenya

9.3 Rivers Working Group

Room F

Chair: Charles Biney, Executive Director, Volta Basin Authority, Ghana

Rapporteur: Paul Taylor, former Director of UNDP CAP-Net Programme, UK

9.4 Large Marine Ecosystem and Open Oceans Working Group

Room A

Co-Chairs: Annadel Cabanban, Senior Fisheries Expert, Sulu-Celebes Sea Sustainable Fisheries Management Project, Philippines, and Hartwig Kremer, Chief Executive Officer, LOICZ, Germany

Rapporteur: Jerker Tamelander, UNEP, Thailand

| | | |
|----------------------|--------------------------------------|-------------------------|
| 12:30 – 14:00 | LUNCH BREAK - Poster Sessions | UNCC Dining Room |
|----------------------|--------------------------------------|-------------------------|

| | |
|----------------------|-----------------------------------------------------------------------------|
| 14:00 – 15:00 | Session 9 (continued): Parallel Working Groups - By water body types |
|----------------------|-----------------------------------------------------------------------------|

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 9.1 Aquifer Working Group | Room G |
| Chair: Andrea Merla, Independent Consultant, Italy | |
| Rapporteur: Holger Treidel, UNESCO-IHP, France | |
| 9.2 Lakes Working Group | Room H |
| Chair: Kelly Munkittrick, Scientific Director, Canadian Water Network, Canadian Rivers Institute, Canada | |
| Rapporteur: Daniel Olago, Senior Lecturer, Department of Geology, University of Nairobi, Kenya | |
| 9.3 Rivers Working Group | Room F |
| Chair: Charles Biney, Executive Director, Volta Basin Authority, Ghana | |
| Rapporteur: Paul Taylor, former Director of UNDP CAP-Net Programme, UK | |
| 9.4 Large Marine Ecosystem and Open Oceans Working Group | Room A |
| Co-Chairs: Annadel Cabanban, Senior Fisheries Expert, Sulu-Celebes Sea Sustainable Fisheries Management Project, Philippines, and Hartwig Kremer, Chief Executive Officer, LOICZ, Germany | |
| Rapporteur: Jerker Tamelander, UNEP, Thailand | |

| | | |
|----------------------|-------------------------|--------------------------|
| 15:00 – 15:30 | NETWORKING BREAK | Thai Canteen Room |
|----------------------|-------------------------|--------------------------|

| | | |
|----------------------|-------------------------------------------------|--------------------------|
| 15:30 – 17:00 | Session 10: The Science Policy Interface | Conference Room 3 |
|----------------------|-------------------------------------------------|--------------------------|

Objectives of the Science Policy Interface Session

- To determine the kind of scientific knowledge most useful to inform decisions at the transboundary and other levels of governance.
- To review processes for using science to inform policy decision-making and for involving the science community.

Expected Outputs:

- Stock-taking of effective, and less effective, uses of scientific information and science processes in transboundary waters management and process for involvement of the science community.
- Identification of the factors that determine success or failure in use of scientific information. How much information is too much? How can one best explain the benefits/costs of action/inaction? This discussion will be continued in the Working Groups.

Moderator: Adrian Cashman, Centre for Resource Management and Environmental Studies, University of the West Indies, Barbados

Keynote Presentation: Alfred Duda, former Senior Advisor, GEF, USA

Discussant: Jakob Granit, International Waters Panel Member, GEF Scientific and Technical Advisory Panel (STAP) and Centre Director Stockholm Environment Institute, Sweden

Panel Discussion on the Science Policy Interface

1. David Grey, former Senior Water Advisor, World Bank and Oxford University Centre for the Environment, UK
2. H.E. Rejoyce Mabudafhasi, Deputy Minister, Ministry of Water and Environmental Affairs, Pretoria, South Africa
3. Julio Kettelhut, La Plata River Basin Project, Brazil
4. Magnus Ngoile, former Agulhas and Somali Current LME Project, South Africa
5. Carl Lundin, IUCN Marine Programme, Switzerland
6. Yihang Jiang, Yellow Sea Project, China
7. John Pernetta, former South China Seas Project, Thailand

Rapporteur: Meryl Williams, former International Waters Panel Member, GEF STAP, Australia, and Tessa Goverse, UNEP

17:00 – 18:30

Session I I: Parallel Working Groups on Science Policy Interface Room A, G, F, H

I I.1 The Role of IW-related Science in Support of Regional Cooperation**Room A**

Chair: Jakob Granit, International Waters Panel Member, GEF STAP and Centre Director Stockholm Environment Institute, Sweden

Rapporteur: Douglas Taylor, GEF STAP Consultant, UK

Objectives:

- To consider whether there are generalizable and regionally transferable lessons from GEF supported work by international waters water body supporting benefit generation and cooperation at the regional level.

Expected Outputs:

- Recommendations on strategies for international waters science to address gaps in support of regional cooperation meeting IW objectives.
- Recommendations on capacity building likely to enhance the cross-disciplinary technical and political capacity of scientific advice in fulfilling the needs of regional intergovernmental commissions.

I I.2 Analysis (TDAs), Progress Monitoring (SAPs) and Indicators**Room G**

Chair: Peter Whalley, former Project Manager, Tisza River Basin Project, UK

Rapporteur: Chris Severin, GEF

Objective:

- To ensure that the best and most effective information on project activities, performance, assessments and results are fed-back to the country policy and decision makers, donors, GEF etc. to convey a realistic representation of the issues, pressures and status of the water body and/or ecosystem.

Expected Output:

- The identification of improved means to enhance the TDA/analysis, SAP objectives and measures, and the communication of complex issues from the ecosystem to decision makers and other stakeholders enabling the ability to track improvements in status at a water body as well as at global levels.

I I.3 Effective Knowledge Mobilization**Room F**

Chair: Zafar Adeel, UNU-INWEH (tbc)

Rapporteur: Mish Hamid, IW:LEARN Project, Slovakia

Objectives:

- To explain and discuss the knowledge mobilization (KM) approach from the GEF IW:Science project. To discuss the effectiveness of this approach and the lessons learned from using it.
- To discuss how to sustain a network of scientists concerned with transboundary water issues.
- To discuss new tools, methodologies and approaches to knowledge management and mobilization.

Expected Outputs:

- Summary of findings and lessons learned behind knowledge mobilization approaches for international waters.
- Identify actions and recommendations at the GEF corporate level for effective KM across all GEF focal areas.
- Proposed actions to maintain a network of scientists and the utilization of such a network to address the objectives of the parallel working group sessions.

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <p>11.4 Linking Science to Policy: Strengthening the uptake of scientific findings into policy and practice</p> <p>Chair: David Grey, former Senior Water Advisor, World Bank and Oxford University Centre for the Environment, UK</p> <p>Rapporteur: Joana Akrofi, UNEP and Astrid Hillers, GEF</p> | <p>Room H</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|

Objectives:

- To discuss successful experience in incorporating science in the management of transboundary waters, especially outside the GEF portfolio.
- To develop recommendations for enhancing the use of science in policy formulation and management of transboundary waters.

Expected Outputs:

- Recommendations on how to use more science for developing better policies and practices for the management of transboundary waters.
- Recommendations for GEF and other agencies on how they can encourage the use of science to improve the policy and practice of managing transboundary waters.

Wednesday - 26 September – Day 3

| | | |
|----------------------|-----------------------------------------------------|--------------------------|
| 09:00 – 09:30 | Session 12: Wrap-up Day 2 and Planning Day 3 | Conference Room 3 |
|----------------------|-----------------------------------------------------|--------------------------|

Wrap-up Day 2 and Planning for Day 3: Salif Diop, Head Thematic Assessment Section, UNEP

| | |
|----------------------|----------------------------------------------------------------------------------|
| 09:30 – 11:00 | Session 11 continued: Parallel Working Groups on Science Policy Interface |
|----------------------|----------------------------------------------------------------------------------|

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <p>11.1 The role of IW-related science in support of regional cooperation</p> <p>Chair: Jakob Granit, International Waters Panel Member, GEF STAP and Centre Director Stockholm Environment Institute, Sweden</p> <p>Rapporteur: Douglas Taylor, GEF STAP Consultant, UK</p> | <p>Room A</p> |
| <p>11.2 Analysis (TDAs), Progress Monitoring (SAPs) and Indicators</p> <p>Chair: Peter Whalley, former Project Manager, Tisza River Basin Project, UK</p> <p>Rapporteur: Chris Severin, GEF</p> | <p>Room G</p> |
| <p>11.3 Effective Knowledge Mobilization</p> <p>Chair: Zafar Adeel, UNU-INWEH</p> <p>Rapporteur: Mish Hamid, IW:LEARN Project, Slovakia</p> | <p>Room F</p> |
| <p>11.4 Linking Science to Policy: Strengthening the uptake of scientific findings into policy and practice</p> <p>Chair: David Grey, former Senior Water Advisor, World Bank and Oxford University Centre for the Environment, UK</p> <p>Rapporteur: Joana Akrofi, UNEP and Astrid Hillers, GEF</p> | <p>Room H</p> |

| | | |
|----------------------|-------------------------|--------------------------|
| 11:00 – 11:30 | NETWORKING BREAK | Thai Canteen Room |
|----------------------|-------------------------|--------------------------|

| | | |
|----------------------|------------------------------------------------------------|--------------------------|
| 11:30 – 12:30 | Session 13: Key Recommendations by Water Body Types | Conference Room 3 |
|----------------------|------------------------------------------------------------|--------------------------|

Objective:

- To report the findings of the thematic Working Groups on aquifers, rivers, lake basins, large marine ecosystems/ open oceans back to the plenary.

Expected Outputs:

- Consolidated key recommendations for GEF, other agencies, and their stakeholders for each water body type, with due attention to the linkages between them.

Moderator: Salif Diop, Senior Programme Officer, Scientific Assessment Branch, UNEP

Recommendations from the Water Body Types Working Groups:

1. Chair/Rapporteur, Aquifer Working Group
2. Chair/Rapporteur, Lake Working Group
3. Chair/Rapporteur, River Working Group
4. Chair/Rapporteur, LME/OO Working Group

Rapporteur: Chris Severin, GEF and Jacqueline Alder, UNEP

12:30 – 14:00 LUNCH BREAK - Poster Sessions

UNCC Dining Room

14:00 – 15:30 Session 14: Key Recommendations Science Policy WGs Conference Room 3

Objective:

- To report the findings of the science policy interface working groups back to the plenary.

Expected Outputs:

- Consolidated key recommendations for GEF, other agencies, and their stakeholders regarding the effective use of science to enhance the management of transboundary waters.

Moderator: Ivan Zavadsky, International Waters Focal Area Coordinator, GEF

Recommendations from the Science Policy Interface Working Groups:

1. Chair/Rapporteur, The Role of IW-related Science in Support of Regional Cooperation
2. Chair/Rapporteur, Analysis (TDAs), Progress Monitoring (SAPs) and Indicators
3. Chair/Rapporteur, Effective Knowledge Mobilization
4. Chair/Rapporteur, Linking Science to Policy: Strengthening the uptake of scientific findings into policy and practice

Rapporteur: Thomas Chiramba, UNEP, and Patrick Weiler, IW:LEARN Project

15:30 – 16:00 NETWORKING BREAK

Thai Canteen Room

16:00 – 17:30 Session 15: The Way Forward and Closing Plenary Conference Room 3

Moderator: Rae Kwon Chung, Director, Environment and Development Division, ESCAP

Panel Discussion on Way Forward:

1. Jakob Granit, GEF STAP
2. RaeKwon Chung, ESCAP
3. Thomas Chiramba, UNEP
4. Ivan Zavadsky, GEF
5. Mish Hamid, IW:LEARN Project

Panel Rapporteur: Stephen de Mora, Plymouth Marine Laboratory, UK

Synthesis Video

Conference Statement: Joseph Alcamo, Chief Scientist, UNEP

Best 'GEF International Water Science Poster' Award

Closing remarks: Representative, Thai Government, Vladimir Mamaev, UNDP and Ibrahim Thiaw, UNEP

19:30 – 21:30 Hospitality - Social Event and Closing Dinner