



INTERNATIONAL CONFERENCE

CLIMATE RISK, VULNERABILITY AND RESILIENCE BUILDING

19-21 APRIL 2023

UNESCO HQ
PARIS, FRANCE

FULL
PROGRAMME



VISIT THE WEBSITE!

Wednesday | 19 April

Hydroclimatic risk, monitoring and vulnerability: state-of-the-art solutions for climate risk management

08:00-09:00

Registration and welcome coffee (Room XI)

09:00-09:30

Opening session and key messages from the UN 2023 Water Conference (Room XI)

Moderator: **Abou Amani**, Secretary of the Intergovernmental Hydrological Programme (IHP)

- **Xing Qu**, Deputy Director-General of UNESCO
- **H. E. Kris Dierckx**, General Representative of Flanders to UNESCO, OECD & Council of Europe, Permanent Representation of Belgium
- **Zhongbo Yu**, IHP Chair - IHP IX contribution to climate risk management (virtual)

09:30-11:00

Science-Policy Discussion Panel 1: Bridging the gap between science and the different scales of decision-making for climate risk management (Room XI)

Moderator: **Anil Mishra**, Chief of the Hydrological Systems, Climate change and Adaptation Section, UNESCO

- Keynote presentation: **John Matthews**, Executive Director, Alliance for Global Water Adaptation (AGWA)
- Panel Session:
 - **Sasha Koo-Oshima**, Deputy Director, FAO Land & Water Division (virtual)
 - **Toshio Koike**, Executive Director, International Center for Water Hazard and Risk Management (ICHARM)
 - **Katharine Vincent**, Director, Kulima, South Africa
 - **Callist Tindimugaya**, Commissioner for Water Resources Planning and Regulation, Ministry of Water and Environment, Uganda
 - **Sophie Collette**, Water Expert, Enabel, Belgium
 - **Brett Snider**, Resilience and Economic Integration Division, Public Safety Canada
 - **Daan Liang**, Program Director, Human Disasters and the Built Environment Program, National Science Foundation, USA

11:00-11:30

Break and Poster session (Room XI)

11:30-13:00

Technical session 1: Monitoring the impacts of hydroclimatic risks and EWS - Part 1 (Room XI)

Moderator: **Alexandros Makarigakis**, Regional Hydrologist, UNESCO Regional Office for Eastern Africa

- **Jamie Hannaford**, UK Centre for Ecology & Hydrology - [ROBIN: A Reference Observatory of Basins for International hydrological climate change detection](#)
- **Annalee Tai**, Floodbase - [Unlocking Flood Resilience With Remote Sensing Approaches to Early Alerting and Financing](#)
- **Ilyas Masih**, IHE Delft Institute for Water Education - [Bridging science, policy and decision making gap through co-creating next generation of climate services](#)
- **John Pomeroy**, University of Saskatchewan - [High Mountain Climate, Snow, Glacier and Water Risk and Vulnerability](#)
- **Y. Vipin Dhunoo**, Bond University - [Climate resiliency for our Habitat through Immersive Technologies and Artificial Intelligence](#)

Technical session 2: Adaptation strategies and NBS - Part 1 (Room IX)

Moderator: **Koen Verbist**, Programme Specialist, Hydrological Systems, Climate change and Adaptation, UNESCO IHP

- **Aracely Salazar-Antón**, German International Cooperation (GIZ) - [Climate risk analysis for value chains in mountain ecosystems](#)
- **Lydia Munene**, Nairobi City Water & Sewerage Company - [Adaptation to Impacts of Climate and Demographic Changes on Water Supply and Demand in Nairobi, Kenya](#)
- **Maxime Souvignet**, United Nations University - [Data-based decision making for climate risk: defining a flood adaptation portfolio for coastal cities in Vietnam](#) (virtual)
- **Andrea Gianni Cristoforo Nardini**, Fundacion CREACUA - [Making Room for Our Forthcoming Rivers](#)
- **Sergio Marcelo Villa Gomez Girona**, PROCUENCA-GIZ - [IMWR Water Planning Based on the PAMIC Ecosystem Based Adaptation \(EBA\) Tool](#)

Wednesday | 19 April

Hydroclimatic risk, monitoring and vulnerability: state-of-the-art solutions for climate risk management

Technical session 3: State of the art: Tools for flood monitoring - Part 1 (Room VIII)

Moderator: **Alexandra Nauditt**, Senior Researcher, Institute for Technology and Resources Management in the Tropics, TH Köln

- **Daiki Kakinuma**, International Centre for Water Hazard and Risk Management (ICHARM), Public Works Research Institute (PWRI) - Development of a real-time flash flood prediction system using data assimilation for small and medium-sized rivers
- **Bertha C. G. Cienfuegos**, National University of Tumbes - Levels of risk and vulnerability associated with floods and adaptation to climate change in urban and peri-urban areas of the Binational Basin Puyango – Tumbes
- **Stéphane Calmant**, IRD - Hydrometry from Space : the solution for early information on hydrological risks in ungauged and/or transboundary basins
- **Leman Ngwena**, Department Of Water Resources, Critical evaluation of Integrated Community-Based Flood Early Warning System for Disaster Risk Reduction and Resilience in Malawi (virtual)
- **Jonathan Goodall**, University of Virginia - Smart Stormwater Management for Reducing Flood Impacts in Coastal Urban Communities

13:00-14:30 (Lunch break)

Side event 1: Managing land and water to build ecosystem and population resilience to climate change (Room XI)

- Secretariat of the United Nations Convention to Combat Desertification (UNCCD)
- Agenda

Side event 2: Resilience building in global mountains (Room IX)

- United Nations University and Eurac Research
- Agenda

Side event 3: Cross-cutting Working Group I 'Research on Hydrological Systems, Rivers, Climate Risk and Water-Food-Energy Nexus' (Room VIII)

- ICHARM and UNESCO IHP
- Agenda

14:30-16:00

Technical session 4: Adaptation strategies and Nature Based Solutions – Part 2 (Room XI)

Moderator: **Wouter Buytaert**, Professor, Imperial College of London

- **Ad Jeuken**, Deltares - Climate risk and adaptation assessment for water security in support of the NAP in Bhutan
- **Radhapriya Parthasarathy**, German International Cooperation (GIZ) - Building climate resilience capacity in rural India through integrated CWRM approach
- **Liton Chakraborty**, University of Waterloo - Spatio-temporal changes in social vulnerability and socioeconomic variability in Canada
- **Clara Gimeno Jesús**, Imperial College London - A participatory systems approach to understand the impacts of nature-based solutions on water security
- **Maha Ismail**, Nile Basin Initiative - Understanding climate change impacts on the availability of groundwater resources in the Transboundary Aquifers: Case Study for Selected Shared Groundwater Bodies in the Nile Basin Country (ies): Burundi; Ethiopia; Kenya; Rwanda; Sudan; Tanzania; Uganda By Nile Basin Initiative (NBI).

Technical session 5: State of the art: Tools for flood monitoring - Part 2 (Room IX)

Moderator: **John Pomeroy**, Director, Global Water Futures Programme

- **Mohammad Ghoreishi**, Global Institute for Water Security University of Saskatchewan - Building flood resilience by incorporating dynamic adaptive behavior into agent-based modeling of ice-jam flood prone Nordic communities
- **Viacheslav Manukalo**, Ukrainian Hydrometeorological Institute - Role of Hydrometeorological Services in the Risk Management of Dangerous Hydrological Phenomena: Case Study of Ukraine
- **Sara Attaran**, Ferdowsi University of Mashhad - The Interaction between human and water and its effect on the intensification of flood in Iran (virtual)
- **Awatif Mostafa**, Egyptian Meteorological Authority, Seasonal variability of precipitation and temperature over Egypt during 2014 using Climate Monitoring Tool (CMT)
- **Akshay Kowlessar**, Land Drainage Authority, An end to end framework for flood resilience in the Grand River North West Basin, Mauritius under a changing climate (virtual)

Wednesday | 19 April

Hydroclimatic risk, monitoring and vulnerability: state-of-the-art solutions for climate risk management

Technical session 6: Monitoring the impacts of hydroclimatic risks and EWS – Part 2d Solutions – Part 2 (Room VIII)

Moderator: **Will Logan**, Director, International Center for Integrated Water Resources Management (ICIWaRM)

- **Shervan Gharari**, University of Saskatchewan - Reproducibility and uncertainty for national Canadian hydrometric stations (virtual)
- **Marcelo Gaviño Novillo** - Strengthening the resilience of vulnerable communities of Caribbean SIDS through Education and Communication (RANFO KARIYIB Project)
- **Tawanda Gijima**, UNESCO ROSA - Be Resilient - Building the resilience of Southern African countries to climate change and disasters a case of Chimanmani Post Cyclone Idai (virtual)
- **Ibrahim Thiam Gaye**, Assane Seck University of Ziguinchor - Modeling the impacts of climate change on resources in water from the Bafing watershed (Upper Senegal River Basin) (virtual)
- **Hemu Kafle**, Kathmandu Institute of Applied Sciences - Status of metrological drought in South Asia: Spatial and Temporal Analysis 2000-2020 (virtual)

16:00-16:30

Break and Poster session (Room XI)

16:30-18:00

Special Session: Global Science-Based Water Assessment from the UN 2023 Water Conference and Way Forward (Room XI)

Moderator: **Abou Amani**, IHP Secretary and Director of the Water Sciences Division

Opening Remarks: **Johannes Cullman**, Scientific Advisor to the President of the 77th session of the UN General Assembly

Introductory presentation: The Intergovernmental Science-Policy Platform for Water Sustainability (ISPWAS) – Anil Mishra

Panel Discussion: 1) Member States' interventions on the national implementation of ISPWAS

- **México: H.E. Blanca Jimenez-Cisneros**, Ambassador of Mexico in France
 - **Poland: H.E. Mr Mariusz Lewicki**, Ambassador and UNESCO Permanent Delegate
 - **Uganda: Callist Tindimugaya**, Commissioner for Water Resources Planning and Regulation, Ministry of Water and Environment, Uganda
 - **Netherlands: Robbert Moree**, Coordinator for Water and Climate Policy
 - **Tajikistan: Sanoi Boyzoda**, Representative of the Republic of Tajikistan (virtual)
 - **Egypt: Alaa Abdeen**, Vice president of NWRC (virtual)
 - **Senegal: (TBC)** (virtual)
 - **Belgium: Gert Verreet**, Government of Flanders
 - **Korea: Ikjae Kim**, sub-committee chair at the IHP Korean National Committee
 - **Hungary: László Balatonyi**, Priority Area Coordinator (PAC)
 - **Austria: Helmut Habersack**, Institute of Institute of Hydraulic Engineering and River Research(virtual)
- 2) Member States' interventions on the national implementation of ISPWAS
- **WMO: Stefan Uhlenbrook**, Director of Hydrology, Water and Cryosphere (virtual)
 - **FAO: Sasha Koo-Oshima**, Deputy Director, Land & Water Division (virtual)
 - **IAEA: Jodie Miller**, Section Head (virtual)
 - **UNDP: Vladimir Mamaev**, Regional Technical Advisor (virtual)
 - **International Science Council: Aricò Salvatore**, Chief Executive Officer
 - **IAHS: Berit Arheimer**, President of IAHS (virtual)
 - **IHE Delft: Eddy Moors**, Rector
 - **Global Water Future: John Pomeroy**, Director of Global Water Futures Programme, University of Saskatchewan
 - **Sustainable Water Future Programme: Anik Bhaduri**, Executive Director (virtual)

18:00-19:00

Conference reception - Offered by the Government of Flanders (UNESCO Restaurant, 7th floor)

Moderator: **Anil Mishra**, Chief of the Hydrological Systems, Climate change and Adaptation Section, UNESCO

- Opening remarks:

- **H. E. Kris Dierckx**, General Representative of Flanders to UNESCO, OECD & Council of Europe, Permanent Representation of Belgium
- **Abou Amani**, UNESCO IHP Secretary and Director of the Water Sciences Division, UNESCO

- Keynote presentation: **Ann Van Griensven**, UNESCO Chair on Open Water Science and Education and **Koen Verbist**, UNESCO-IHP

Thursday | 20 April

Next level of participatory water management: Citizen and open science and the role of indigenous and local knowledge systems

09:00-09:30

Opening of Day 2 and Keynote presentation (Room XI)

Moderator: **Koen Verbist**, Programme Specialist, Hydrological Systems, Climate change and Adaptation Section, UNESCO

- Opening Words: **Gert Verreest**, Advisor, Government of Flanders, IHP-IX Output 1.10 Lead
- Keynote Presentation: **Wouter Buytaert**, Professor, Imperial College of London

09:30-11:00

Panel discussion: Next level of participatory water management: Citizen and open science and the role of indigenous and local knowledge systems (Room XI)

Moderator: **Koen Verbist**, Programme Specialist, Hydrological Systems, Climate change and Adaptation Section, UNESCO

- **Uta Wehn**, Professor, Delft IHE (virtual)
- **Steven Loiselle**, Senior Research Manager, Earthwatch
- **Fernando Nardi**, Working Group Chair, Citizens AND Hydrology (CANDHY) IAHS (virtual)
- **Magali Garcia**, Professor, Universidad Mayor de San Andrés
- **Nilay Dogulu**, Early Career Scientist Representative, IAHS, Turkey (virtual)
- **Ana Persic**, UNESCO Open Science
- **Ann Van Griensven**, Professor, VUB, UNESCO Chair, Work Group I Chair

11:00-11:30

Break and Poster session (Room XI)

11:30-13:00

Technical session 1: Innovative participatory approaches, tools and methodologies supporting citizen science (Room XI)

Moderator: **Justin Sheffield**, Professor, University of Southampton

- **Myisha Ahmad**, BRAC - Tidal River Water Custodian: An approach to link local communities to decision making
- **Mamoru Miyamoto**, ICHARM - Development of Integrated System and Multi-layered Governance for Flood Resilience Enhancement
- **Bruce Lankford**, University of East Anglia - Rapid Games Designing; a participatory format to unpack and discuss concepts like resilience building
- **Wim Schiettecatte**, VITO - Water management actions towards more climate resilient business parks
- **Tahmina Yasmin**, University of Birmingham - Designing a SMART flood early warning system for a lesser Himalayan urban region

Technical session 2: Participatory Approaches involving Indigenous and Local Knowledge (Room IX)

Moderator: **Magali Garcia**, Professor, Universidad Mayor de San Andrés

- **Sandra Megens**, Wageningen University - Value of the river for improving participation on water governance facing drought in the Chota valley
- **Aparna Tandon**, ICCrom - Net Zero: Heritage for Climate Action (virtual)
- **Audrey Popa**, University of Victoria - Investigating Indigenous-led Conservation Finance as a Tool for Environmental and Economic Resiliency
- **Haydee Villalta Rojas**, SAGUAPAC - Contribution of citizen participation, open science and indigenous knowledge forward to action for water
- **Hachelafi Hamid**, University Oran1 - The valorization of citizen science in water management. The Touareg population in Southern Algeria - A study example (virtual)

Thursday | 20 April

Next level of participatory water management: Citizen and open science and the role of indigenous and local knowledge systems

Technical session 3: Stakeholders engagement through new approaches - Part 1 (Room VIII)

Moderator: **Ann Van Griensven**, Professor, VUB, UNESCO Chair, Work Group I Chair

- **Raúl Loayza-Muro**, Universidad Peruana Cayetano Heredia - Use of a mobile app based on biological indicators for monitoring water quality in rural communities in the Cordillera Blanca (Peru): a citizen science approach
- **Abdou Bagna Amadou**, Abdou Moumouni University - Climate Variability and Agricultural Changes in Tamou (Periphery of "W" Park) in Niger
- **Roland Apambilla**, University of Ghana - Predictors of Stakeholders' Willingness to Participate in Payment for Ecosystem Services among Urban Water Users in Accra, Ghana
- **Shashi Bhattarai**, Development Dynamics Pvt. Ltd. - Decision Mentor as Climate Smart Decision Making tool to Individuals (virtual)
- **Amani Belhaj Kilani**, Higher School of Engineers of Medjez El beb (ESIM)-UCLouvain (ELI) - Assessing the complementarity of soil moisture monitoring and remote sensing data based on the Citizen participation in the Irrigated Area of Lakhmass (Siliana, Northern Tunisia) (virtual)

13:00-14:30 (Lunch break)

Side event 1: Building climate resilience through meaningful engagement and positive mental health: Youth perspectives from the Global North and South (Room XI)

- United Nations Industrial Development Organization (UNIDO)

Side event 2: Integrating local and scientific knowledge in climate services: Challenges, opportunities & way forward (Room IX)

- IHE Delft Institute for Water Education

14:30-16:00

Inception Meeting: Hydro-Resilience: Citizen and Open Science for Climate Adaptation (Room XI)

Opening remarks: **Gert Verreet**, Flemish Government, Department Economy Science and Innovation (EWI), Belgium

Project Overview: **Koen Verbist**, UNESCO IHP

Testimonials and lessons learned

- Experiences on IoT implementation from Andean catchments: **Boris Ochoa-Tocachi**, Forest Trends and ATUK (virtual)
- Experiences on implementing citizen science in Biosphere reserves: (TBC) **Mbali Mashele**, UNESCO ROSA (virtual)

Interactive discussion on project pillars

1. Hydroclimatic Vulnerability, Monitoring and Early Warning

Moderator: **Justin Sheffield**, Professor, University of Southampton and Princeton Climate Institute (PCI)

2. Citizen Science through Open hardware and Internet of Things (IoT)

Moderators: **Wouter Buytaert**, Imperial College of London and **Magali Garcia Cardenas**, Universidad Mayor de San Andres

3. Open Hydrology

Moderator: **Nilay Dogulu**, Early Career Scientist

4. Open-source Software and Open Access Data Platforms

Moderators: **Ann Van Griensven**, Professor, Vrije Universiteit Brussel and **Koen Verbist**, UNESCO IHP

Concluding remarks and way forward: **Gert Verreet**, Flemish Government

Technical session 4: Stakeholders engagement through new approaches - Part 2 (Room IX)

Moderator: **Alexandros Makarigakis**, Regional Hydrologist, UNESCO Regional Office for Eastern Africa

- **Shailendra Mandal**, National Institute of Technology Patna, Making Resilience Building Work for Hydroclimatic Risk, Monitoring and Vulnerability: Strategies for Resource Constrained Metropolitan City of India (virtual)
- **Paula L. P. Mollinedo**, Support Center for Water and Environmental Management: "Agua Sustentable" - Andean Water Towers Knowledge Centre for Climate Change Adaptation (AKCC) (virtual)
- **Sebastian Lopez**, IDIT-CONICET - Citizen Science For Mapping Urban Flooding Hazard in Villa Paez, Cordoba, Argentina (virtual)

Thursday | 20 April

Next level of participatory water management: Citizen and open science and the role of indigenous and local knowledge systems

16:00-16:20

Break and Poster session (Room X)

16:20-16:45

Summary of Day 2 technical sessions and Publication Launch (Room XI)

- Moderators from the technical sessions of Day 2
- Launch of CliMWaR Publications:
 - **Approaching Climate and Disasters in an Age of Uncertainty**: case studies and insights for the High-level Experts and Leaders Panel on Water and Disasters (HELP) - presented by: **John Matthews**, AGWA
 - **Integration of local and indigenous knowledge into climate-resilient rural water management** - Lessons learned from the Bolivian Altiplano - presented by: **Magali Garcia**, Universidad Mayor de San Andrés
 - **Best practices on flood and drought risk management** - presented by: **Koen Verbist**, UNESCO IHP
 - **Applying citizen science for climate adaptation and resilience building** - presented by **Wouter Buytaert**, Imperial College of London

16:45-18:00

Side event 4: Citizen Science Working Meeting (Room XI)

- Secretariat of the IHP and Output 1.10 Lead

Side event 5: Groundwater monitoring and open data platforms (Room IX)

- Groundwater Youth Network

Friday | 21 April

Water as a climate connector: The central role of water-energy-food nexus in cross-sectorial adaptation

09:00-09:30

Opening of Day 3 and Keynote presentation (Room XI)

Moderator: **Anil Mishra**, Chief of the Hydrological Systems, Climate change and Adaptation Section, UNESCO

- Opening Words: **Conchita Marcuello Olona**, Ministry for Ecological Transition, Spain and IHP IX Work Group IV Chair (virtual)
- Keynote Presentation: **Aditi Mukherji**, Director, Climate Change Impact Platform, CGIAR (virtual)

09:30-11:00

Panel discussion: Water as a climate connector: The central role of water-energy-food nexus in cross-sectorial adaptation (Room XI)

Moderator: **Wouter Buytaert**, Professor, Imperial College of London

- **Lars Ribbe**, Dean of the Faculty of Spatial Development and Infrastructure Systems at the TH Köln
- **Sadie McEvoy**, Researcher, Department of Water Resources and Delta Management, Deltares
- **Luna Bharati**, Head of Research and Education, International Center for Water Resources and Global Change (ICWRGC)
- **Kristin Gilroy**, Hydrologic Engineer, Tractebel – Engie Group
- **Justin Sheffield**, Professor, University of Southampton
- **Daniela Anghileri**, Research Associate, Joint Research Center, European Commission (virtual)
- **Aditi Mukherji**, Director, Climate Change Impact Platform, CGIAR (virtual)

11:00-11:30

Break and Poster session (Room XI)

11:30-13:00

Technical session 1: Assessing climate change impacts and adaptation through climate stress testing - Part 1 (Room XI)

Moderator: **Koen Verbist**, Programme Specialist, Hydrological Systems, Climate change and Adaptation Section, UNESCO

- **Kristin Gilroy**, Tractebel France - [Climate Vulnerability Assessment of Hydropower Sector in the Ivory Coast](#)
- **Declan Conway**, Grantham Research Institute, London School of Economics - [Characterising and addressing interdependencies in two river basins in Africa](#)
- **Dominic Sett**, United Nations University - [An integrated approach for risks and impacts assessment to inform flood risks adaptation in urban regions](#)
- **Rosanna Vasquez**, Plan Sierra - [Leveraging collaborative modeling to build a more equitable and resilient future: The Guayubin Pilot, Dominican Republic](#)
- **John Kucharski**, USACE Engineer Research and Development Center - [Bridging the gap between top-down and bottom-up approaches for climate impact assessments](#)

Technical session 2: WEF-nexus impacts of climate change: challenges and solutions at national and regional scales - Part 1 (Room IX)

Moderator: **Luna Bharati**, Head of Research and Education, International Center for Water Resources and Global Change

- **Aravindh Panikkaveetil**, Department of Atmospheric Sciences - [Cochin University of Science and Technology, Hazard Risk and Vulnerability to Climate Change among Coastal Communities on the Southwestern Indian Coast: The Case of the State of Kerala](#)
- **Barbara Janusz-Pawletta**, Kazakh-German University - [Kazakhstan's adaptation to Climate change and its development perspectives in the water-food nexus](#)
- **Annika Schlemm**, Vrije Universiteit Brussel - [Including water quality in the water-energy-food nexus: An Upper White Nile case study](#)
- **Malalaniaina Miora Rakotoarivelo**, University of Antananarivo Madagascar - [Fostering citizen science to optimize water resource management and resilience in Madagascar \(virtual\)](#)
- **Kaumi Lakmali Piyasiri**, Sri Lanka Forum for Small Scale Fisheries - [Addressing the impacts of climate change on Sri Lanka's small scale fisheries: A panacea in Small-Scale Fisheries \(SSF\) Guidelines](#)

Friday | 21 April

Water as a climate connector: The central role of water-energy-food nexus in cross-sectorial adaptation

13:00-14:30 (Lunch break)

Side event 1: CRIDA 2.0: Lessons Learnt and Way Forward (Room XI)

- Secretariat of the IHP and Deltares

Side event 2: Social vulnerability and climate risk: the stakes of resilience policies in Brazil (Room IX)

- CEAEDD
- [Agenda](#)

Side event 3: Building resilience by better assessing risks: gaps and opportunities in water-food-energy nexus in the Global South (Room VIII)

- Fundación Avina
- [Agenda](#)

14:30 - 16:00

Technical session 3: Assessing climate change impacts and adaptation through climate stress testing — Part 2 (Room XI)

Moderator: **Ad Jeuken**, Senior Advisor Climate Change Adaptation, Deltares

- **Bruce Lankford**, University of East Anglia - [Irrigation area, efficiency and water storage mediate the drought resilience of irrigated agriculture in a semi-arid catchment](#)
- **Patrick Ray**, University of Cincinnati, [Stress testing climate impacts in four Biosphere Reserves in South Africa \(virtual\)](#)
- **Alicia Bustillos Ardaya**, GLOMOS Global Mountain Safeguard Research Programme - [United Nations University, Participatory climate risk assessment informing water adaptation strategies – a Peruvian Puna case study](#)
- **Andrea Salinas**, PROCUENCA-GIZ - [Rethinking water resources planning in Bolivia: climate risk and uncertainty from global to local levels](#)
- **Shervan Gharari**, University of Saskatchewan - [A Flexible Framework to Simulate the water balance of Lakes and Reservoirs from Local to Global Scales: mizuRoute-Lake \(virtual\)](#)

Science and policy discussion panel 3: Water as a climate connector: The central role of water-energy-food nexus in cross-sectorial adaptation (Room IX)

How to fast-track solutions and leverage funding mechanisms to support disaster risk reduction and adaptation? How to promote the inclusion of water in National Adaptation Plans? What is the role of capacity building in tackling climate change adaptation?

Moderator: **John Matthews**, Executive Director, Alliance for Global Water Adaptation (AGWA)

- **Amgad Elmahdi**, Water Sector Lead, Green Climate Fund
- **Gena Gammie**, Forest Trends, Peru / United States
- **Romain Maendly**, Climate Change Program of the California Department of Water Resources
- **Rosa Formiga Johnsson**, Professor, Universidade do Estado do Rio de Janeiro
- **Teresa Landa Paradinas**, Municipal Water Key Offers Director, Veolia
- **Graham Jewitt**, Professor of Hydrology, IHE Delft
- **François Bertone**, Senior Water Resource Management Specialist, World Bank

Friday | 21 April

Water as a climate connector: The central role of water-energy-food nexus in cross-sectorial adaptation

Technical session 4: WEF-nexus impacts of climate change: Challenges and solutions at national and regional scales - Part 2 (Room VIII)

Moderator: **Alexandra Nauditt**, Senior Researcher, Institute for Technology and Resources Management in the Tropics, TH Köln

- **Christian Franco-Crespo**, Technical University of Ambato - Measuring Climate Change Effects on Traditional Crops of the Highlands, Ecuador
- **Santana Gopal Komandur**, Centre for Environment Concerns - Climate smart agriculture and resilience needs paradigm shift in approach to irrigation (virtual)
- **Shilpa Muliyl Asokan**, The Nordic Africa Institute - A macro-scale and granular comparison of WEF nexus and cross-sectoral adaptation – Case study areas in Tanzania and Kenya
- **Rasha Hassan**, PhD candidate, University of Barcelona - Navigating Complexity: Climate Change Adaptation in the Euphrates Basin (virtual)
- **Muchaneta Munamati**, UNESCO ROSA - Sustainable Ground (water) management as a connector for resilient communities and ecosystems in the face of water and climate challenges (virtual)

16:00-16:30

Summary of the Day 3 Technical sessions and Closing remarks (Room XI)

Moderators from the technical sessions of Day 3

Closing remarks

Gert Verreet, Advisor, Government of Flanders, IHP-IX Output 1.10 Lead

Abou Amani, Secretary of the Intergovernmental Hydrological Programme (IHP)