

PROGRAM |

1st Water Accounting Plus symposium
Delft, 12th and 13th July 2022

12th JULY 2022

8:30 Registration

9:00 Welcome
by the Organizing Committee

9:10 Dr. Poolad Karimi (World Bank)

9:30 Session 1: WA+ application case studies part 1

Chaired by Dr. Elga Salvadore (IHE Delft, The Netherlands)

Dr. P. K. Singh (National Institute of Hydrology, India): “Water Accounts using WA+ Framework for Sustaining Water Resources and Ensuring Food Security in Subarnarekha Basin, India”

Ms. Redeat Daniel (Adama Science and Technology University, Ethiopia): “Application of Remote Sensing Products for Water Accounting in Data Scarce Areas:-The case of Wabi Shebelle River Basin, Ethiopia”

Mr. Nam Nguyen Trung (Vietnam German University and Tu-Darmstadt University, Vietnam): “Investigation of optimal irrigation system operations using the water accounting framework plus (WA+) for agricultural transformation under climate change and anthropogenic impacts in Ben Tre province, Vietnamese Mekong Delta.”

Mr. Shereef Fouda (Ministry of Water Resources and Irrigation, Egypt): “Water Accounting Plus Application in the Nile Delta of Egypt”

10:30 Break

11:00 Session 2: WA+ application case studies part 2

Chaired by Dr. Velpuri Naga (IWMI, Sri Lanka)

Mrs. Munkhtsetseg Zorigt (School of Engineering and Applied Sciences, National University of Mongolia): “Water accounting plus for the Khelren river basin, Mongolia”

Mr. Praveen Kalura (Water Resources Development and Management Department, Indian Institute of Technology Roorkee, India): “Water Accounting Plus (WA+) approach for integrated assessment of water resources of Godavari river basin, India”

Dr. Mansoor Leh (IWMI, Sri Lanka): “Water accounting in endorheic basins: A case study using the WA+ framework in the Rift valley lakes basin, Ethiopia”

Mrs. Maryam Daher (FAO Lebanon): “WA+ model in Kalb River Basin: Data comparison, Validation, and model improvement”

Mrs. Ehsan El Meknassi Youssoufi (Hassan II Agronomy and Veterinary Institute, Morocco): “Advanced water accounting WA+ in Berrechid plain”

12:15 Lunch

13:45 Session 3: Hydrological modelling for WA+

Chaired by Dr. Claire Michailovsky (IHE Delft, The Netherlands)

Dr. Moctar Dembele (IWMI and Oxford University): “Spatially calibrated hydrological model for water accounting under climate change”

Mr. Albrecht Weerts (Deltares and Wageningen University, The Netherlands): “Wflow_sbm, a spatially distributed hydrologic model: from global data to local applications”

Dr. Vishal Singh (National Institute of Hydrology, India): “Data assimilation approach coupled with Water Accounting+ to examine water demand for ensuring future water security in the Northeastern region, India”

Dr. Belete Berhanu (Addis Ababa Institute of Technology, Ethiopia): “Tracing Green and Blue Water Sources for Evapotranspiration using Soil Moisture Water Balance in WEAP”

Dr. Solomon Seyoum (IHE Delft, The Netherlands): “the PixSWaB model”

15:00 Break

15:30 Interactive session 1: Hydrological modelling for WA+

Chaired by Dr. Claire Michailovsky (IHE Delft, The Netherlands) & Mr. Bert Coerver (FAO Rome, Italy)

The goal of this session is to collaboratively catalog models used by water accounting practitioners and identify modelling gaps to prioritize future developments.

17:00 Poster session and Networking reception

Posters

Mr. Jargaltulga Tsogtbayar (National University of Mongolia): “A case study in the Khuvsgul lake basin, Mongolia-Water accounting plus”

Dr. Sudhir Kumar Singh (University of Allahabad, India): “Water accounting of a trans-boundary Himalayan River basin using open access satellite datasets and WA+ tool”

Dr. Nabil Kherbache (FAO Algeria and University of Bejaia, Algeria): “Water accounting in Cap Matifou sub-basin (Algeria)”

Dr. Azucena Rodriguez Yebra (HR Wallingford, UK): “Groundwater Risk Assessment in Yemen”

Mr. Walter Hettler (IHE Delft, The Netherlands): “Assessment of groundwater recharge using remote sensing information”

Dr. Anderson Ruhoff (Federal University of Rio Grande do Sul, Brazil): “Integrating Earth observation and large-scale hydrological modeling for environmental-economic water accounting in Brazil”

Mr. Ramahaimandimby Sandratra Zonirina (UCLouvain, Belgium): “Reliability of satellite-based rainfall products for water management studies: the case of Ankavia river basin in Madagascar”

Dr. Rendani Vele Makahane (University of Kwazulu-Natal, South Africa): “Comparison Of Two Approaches to Applying WA+ in the Incomati Catchment in Southern Africa”

Dr. Seleshi Yalew (IHE Delft, The Netherlands): “Equity operationalization in water resources modeling”

Mrs. Mira Buckstöver (VUB and KULeuven, Belgium): “WetSpa for WA+: Adapting the WetSpa model for Water Accounting applications”

Mrs. Atina Umi Kalsum (VUB and KULeuven, Belgium): “Water Accounting for Integrated Water Resources Management in Karnataka, India”

Mrs. Areta Nur Salsabila Jati (VUB and KULeuven, Belgium): “Comparison of SWAT+ and PixSWaB model to estimate green and blue water for Water Accounting +”

19:00 Dinner

13th JULY 2022

9:00 Session 4: WA+ institutionalization and policy making

Chaired by Mr. Jippe Hoozeveld (FAO Rome, Italy)

Mrs. Nafn Amdar (IWMI, Lebanon): “An analysis of the potential for implementing WA+ to support Jordan’s water resources management and planning decisions”

Mr. Mohammadreza Jarkeh (University of Zabol, Iran): “Application of WA+ framework for sustainable development in the transboundary region, case study: Sistan, Iran in new hydrological condition”

Dr. Nabil Kherbache (FAO Algeria and University of Bejaia, Algeria): “Water accounting in Algeria: overexploitation in the Macta Basin and institutionalization of the approach.”

Mrs. Rozemarijn ter Horst (Wageningen University): “Learning from differences in uptake of WA+: the case of the Cauvery”

Dr. Velpuri Naga (IWMI, Sri Lanka): “Customizing WA+ Framework for River Basin Requirements and Generating Policy Relevant Water Accounting Outputs”

Dr. Rendani Vele Makahane (University of Kwazulu-Natal, South Africa): “Stakeholder Engagement in the Application of WA+ in the Transboundary Incomati Catchment in Southern Africa”

10:30 Break

11:00 Interactive Session 2a: Institutionalization of WA+

Chaired by Dr. Marloes Mul (IHE Delft, The Netherlands), Mr. Ebel Smidt (EU Water Stars, The Netherlands), and Mr. Job Kleijn (FAO consultant)

This session will focus on sharing experiences on institutionalising WA+, the session will start with an introductory presentation, followed by two case studies of experiences for integrating WA+, followed by an active discussion session with the audience.

11:00 Interactive Session 2b: Indicators for WA+

Chaired by Dr. Naga Velpuri (IWMI, Sri Lanka) and Dr. Mansoor Leh (IWMI, Sri Lanka)

This session aims to review the definitions and nomenclature of key WA+ indicators and discuss the methodology used for the computation. This reflection will also lead to guidelines for improving accuracy of WA+ results.

12:00 Lunch

13:30 Session 5: Tools, Data and Interfaces for WA+

Chaired by Mrs. Bich Tran (IHE Delft, The Netherlands)

Mr. Bert Coerver (FAO Rome, Italy): “pyWaPOR - A multipurpose tool for preparing water accounting data”

Dr. Solomon Seyoum (IHE Delft, The Netherlands): “Rapid Water Accounting Plus Using WaPOR Database”

Dr. Anderson Luis Ruhoff (Federal University of Rio Grande do Sul, Brazil): “Estimations of multi-scale ET in South America using geeSEBAL and Landsat and Terra/Aqua MODIS images for water resources.”

Mr. Gabriel Matte Rios Fernandez (Federal University of Rio Grande do Sul, Brazil): “Google Earth Engine Water Accounting (geeWA): an online application to estimate hydrological data at global scale”.

Dr. Sashikumar Nagarajan (Advanced Centre for IWRM, Bangalore, Karnataka, India): “Water Accounting plus using Karnataka Water Information System (KWRIS) Portal”

Mrs. Natalia Cárdenas (WAPLugin project): “The WAPLUGIN: Water accounting and productivity QGIS plugin”

15:00 Break

15:30 Interactive session 3: Presentation of WA+ results

Chaired by Dr. Elga Salvadore (IHE Delft, The Netherlands), Mr. Bert Coerver (FAO Rome, Italy) and Dr. Masoor Leh (IWMI, Sri Lanka)

The goal of this session is to set direction for future presentation of WA+ results (sheets, indicators, innovative web-platforms, interactive presentations, ...).

17:00 Closing remarks

by the Organizing Committee