

## IAHS Bureau: Working Group (WG) and Committees

**Chair Name:** Salvatore Manfreda

**Working group:** MOXXI - <https://iahs.info/Initiatives/Working-Groups/MOXXI/>

**Names of participants and role(s) of each officer:**

<b>Role</b>	<b>Name of person</b>	<b>Activities/Responsibilities (e.g. communication)</b>
Chair	Salvatore Manfreda	Coordination and Communication
participant	Flavia Tauro	Support in management of initiatives
Communication Group	Stergia Palli Gravani	MOXXI Science Promotion and Communication
Communication Group	Khim Cathleen Saddi	MOXXI Science Promotion and Communication
Communication Group	Jorge Andrés Saavedra	MOXXI Science Promotion and Communication
Communication Group	Htay Htay Aung	MOXXI Science Promotion and Communication
participant	João Abrantes	member
participant	Tommaso Abrate	member
participant	Paola Allamano	member
participant	Francesco Avanzi	member
participant	Hassan Awada	member
participant	Roger Bailey	member

participant	Filippo Bandini	member
participant	Gabriele Baroni	member
participant	Paul Bates	member
participant	Jerome Benveniste	member
participant	Nicolas Bercher	member
participant	François Birgand	member
participant	Theresa Blume	member
participant	Heye Bogena	member
participant	Jean-Pierre Bricquet	member
participant	Luca Brocca	member
participant	Domenico Capolongo	member
participant	Elisa Casella	member
participant	William Castaings	member
participant	Attilio Castellarin	member
participant	Kelly Caylor	member
participant	Paul Celicourt	member
participant	Serena Ceola	member
participant	Giuseppe Ciraolo	member
participant	Ed Clayton	member
participant	Miriam Coenders	member
participant	Matteo Colli	member
participant	Chiara Corbari	member
participant	Edwin A. Cowen	member
participant	Alan DeCiantis	member
participant	Alfred de Jager	member
participant	João Pedroso de Lima	member
participant	Jerker Delsing	member
participant	Davide De Luca	member
participant	Carlo De Michele	member
participant	Francesco De Paola	member
participant	Alessio Domeneghetti	member
participant	Jon Duncan	member
participant	Anette Eltner	member

participant	Lyndon Estes	member
participant	Joan Estrany	member
participant	Simon Etter	member
participant	Nick Everard	member
participant	Pierre Fabry	member
participant	Maria Clara Fava	member
participant	Laura Fois	member
participant	John W. Fulton	member
participant	Xurxo Gago	member
participant	Flavio Gattari	member
participant	Virginie Girard	member
participant	Thomas Gräff	member
participant	Salvatore Grimaldi	member
participant	Uwe Haberlandt	member
participant	Ofer Hadar	member
participant	Sibylle Hassler	member
participant	Alexandre Hauet	member
participant	Ingo Heidbüchel	member
participant	Markus Hrachowitz	member
participant	Rolf Hut	member
participant	Erika Denise Johnson	member
participant	Branko Kerkez	member
participant	Sung Yong Kim	member
participant	Cécile M. M. Kittel	member
participant	Edouard Konzi Panise Siamo	member
participant	Anton Kruger	member
participant	Venkat Lakshmi	member
participant	Jonathan Laronne	member
participant	Jérôme Le Coz	member
participant	Käthi Liechti	member
participant	Willem Luxemburg	member
participant	Antonino Maltese	member
participant	Feng Mao	member

participant	Núria Martínez-Carreras	member
participant	Marc Mayes	member
participant	E. Mario Mendiondo	member
participant	Nils Michelsen	member
participant	Tommaso Moramarco	member
participant	Vsevolod Moreydo	member
participant	Katie Muchan	member
participant	Babar Mujtaba	member
participant	Marian Muste	member
participant	Fernando Nardi	member
participant	Tomasz Niedzielski	member
participant	Valerio Noto	member
participant	Antonio Novelli	member
participant	Gloria Passarello	member
participant	Antoine Patalano	member
participant	Sophie Pearce	member
participant	Salvador Peña	member
participant	Matthew Perks	member
participant	Joshua M. Peschel	member
participant	Andrea Petroselli	member
participant	Laurent Pfister	member
participant	Michael Piasecki	member
participant	Alonso Pizarro	member
participant	Maurizio Porfiri	member
participant	Ehsan Rabiei	member
participant	Alberto Refice	member
participant	Camilo Ernesto Restrepo Estrada	member
participant	Jesús Revuelto Benedí	member
participant	Elena Ridolfi	member
participant	Alessio Rovere	member
participant	Claudia Ruz Vargas	member
participant	Caterina Samela	member

participant	Melody Sandells	member
participant	Hannes Sardemann	member
participant	Stephan Schulz	member
participant	Andreas H. Schumann	member
participant	Guy Schumann	member
participant	Tobias Schütz	member
participant	Seth A. Schweitzer	member
participant	Jan Seibert	member
participant	John Selker	member
participant	Eylon Shamir	member
participant	Andreas Steiner	member
participant	Bocar Sy	member
participant	Taichi Tebakari	member
participant	Ahmet Emre Tekeli	member
participant	Philipp Thumser	member
participant	Ryota Tsubaki	member
participant	Jeffrey A. Tuhtan	member
participant	Remko Uijlenhoet	member
participant	Nick van de Giesen	member
participant	Katrien van Eerdenbrugh	member
participant	Tim van Emmerik	member
participant	Ilja van Meerveld	member
participant	Marcelle Vargas	member
participant	Y. Jun Xu	member
participant	Ashley Webb	member
participant	Steven Weijs	member
participant	Markus Weiler	member
participant	Andy Wickert	member
participant	Atsuhiko Yorozya	member
participant	Massimiliano Zappa	member
participant	Francesco Alongi	member
participant	Seifeddine Jomaa	member
participant	Hassan Sabeh	member

participant	Amir Rouhani	member
participant	Michael Rode	member
participant	XIAOQIANG YANG	member
participant	Stergia Palli Gravani	member
participant	Jens Grundmann	member
participant	Htay Htay Aung	member
participant	Giulio Dolcetti	member
participant	Bogning Sakaros	member
participant	Sadashiv Chaturvedi	member
participant	Elias Dimitriou	member

**What is the main scientific challenge your WG will focus on during the next-coming year?**

The MOXXI Working Group will focus on advancing and integrating innovative observational techniques that provide novel sources of information to improve our understanding of the hydrological cycle. The main scientific challenge lies in bridging the gap between emerging sensing technologies and their effective application in hydrological research. This involves not only developing and testing new tools and methods but also promoting their standardization, interoperability, and scalability across diverse hydrological environments.

**Which UPH(s) does the Working Group/Committee contribute to? (No 1-23: check**

<https://www.tandfonline.com/doi/full/10.1080/02626667.2019.1620507>)

16. How can we use innovative technologies to measure surface and subsurface properties, states and fluxes, at a range of spatial and temporal scales?

17. What is the relative value of traditional hydrological observations vs soft data (qualitative observations from lay-persons, from data mining etc.), and under what conditions can we substitute space for time?

18. How can we extract information from available data on human and water systems in order to inform the building process of socio-hydrological conceptualisations and models?

**Which Theme and WG of HELPING Decade do the WG/Committee contribute to? (See current status here <https://iahs.info/Initiatives/Topic-for-the-Next-IAHS-decade/helping-working-groups/>)**

- 1.2 Decomposing Complexity
- 1.3 Irrigation quantification & management & its effect on water cycle
- 1.6 Comparative understanding of runoff generation processes
- 1.8 Understanding drivers & feedbacks of soil moisture variability

**How – in which form will the results be presented?** (collaborative paper, workshop, etc)  
Collaborative manuscript, report, summer courses, webinar and workshops

## Work Plan for 2025

In 2025, the MOXXI Working Group has planned and launched several key initiatives aimed at promoting innovation in hydrological observations. Two major events were organized during the EGU General Assembly:

### 1. Scientific Session at EGU 2025

#### Session HS1.2.1 – Innovative Technologies and Approaches in Hydrological Monitoring

 [Session Details](#)

This session attracted a large number of high-quality and stimulating contributions and was held across two time slots:

- **Wednesday, 30 April 2025 | 16:15–18:00 (CEST) – PICO Spot A**
- **Thursday, 1 May 2025 | 08:30–10:15 (CEST) – PICO Spot A**

### 2. MOXXI Working Group Meeting – Session SPM66

 [Meeting Details](#)

Held on **Thursday, 1 May 2025 | 10:45–12:30 (CEST)** in Room 2.83, the meeting gathered MOXXI members and collaborators to review ongoing activities and future directions.

## MOXXI Webinar Series

As a flagship initiative, MOXXI launched a new series of webinars aimed at sharing innovative practices and emerging technologies. Two editions are planned annually — **Summer** and **Autumn**.


The **Summer Edition 2025** features the following distinguished speakers:

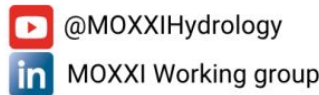
1. **Giulio Dolcetti** – Postdoctoral Researcher, Università di Trento

2. **Nick Everard** – Senior Hydrometric Scientist, UK Centre for Ecology & Hydrology (UKCEH)
3. **Seifeddine Jomaa** – Research Scientist, Helmholtz Centre for Environmental Research (UFZ)

## MOXXI Working Group Presents:



		
<b>Giulio Dolcetti</b> University of trento	<b>Nick Everard</b> UK Centre for Ecology and Hydrology	<b>Seifeddine Jomaa</b> Helmholtz Centre for Environmental Research
<b>16 July</b>	<b>13 August</b>	<b>10 September</b>



The **Autumn Edition** will be announced shortly.

## Upcoming Initiatives

### 1. MOXXI Side Event at IAHS 2025 – Roorkee, India

MOXXI will co-organize a side event at the IAHS Scientific Assembly (5–10 October 2025) in collaboration with the WMO HydroHub and GTN-H. The event will focus on low-cost sensors, open hardware, and collaborative initiatives for hydrological data collection.

### 2. Featured MOXXI Papers in Hydrological Sciences Journal

An agreement has been established with the *Hydrological Sciences Journal* to curate a dedicated **MOXXI feature section**, highlighting 1–2 outstanding papers per year. A MOXXI editorial committee will oversee the selection process.



