



Webinar on "The Role of Remote Sensing (RS) in the Water Sector"

Monday, 23 June 2025
1:00 – 3:00 PM (Cairo Time)

Organized by
Arab Water Academy (AWA) / Arab Water Council (AWC)

Concept Note & Agenda

Introduction:

Remote Sensing (RS) has become a vital tool in effectively managing and conserving water resources. With increasing pressure on freshwater due to climate change, population growth, and pollution, accurate and timely data is essential. RS provides large-scale, real-time, and repeatable observations of water bodies, enabling efficient monitoring and planning. It allows for the assessment of surface water extent, quality, and changes over time without the need for constant ground-based measurements. In agriculture, RS supports irrigation planning by detecting crop water stress and estimating evapotranspiration. It also plays a critical role in flood forecasting, drought monitoring, and early warning systems. Moreover, RS contributes to hydrological modeling by supplying key environmental parameters. Indirectly, it helps monitor groundwater conditions through land subsidence and recharge estimation. The ability to integrate RS data with GIS and modeling tools makes it indispensable for informed decision-making. Overall, RS strengthens sustainable water management and climate resilience strategies across regions.

The webinar on the topic **"The Role of Remote Sensing (RS) in the Water Sector"** will be convened on Monday, 23 June 2025 by Arab Water Academy, which is affiliated with the Arab Water Council. Professionals are invited to attend the webinar to gain valuable insights into cutting-edge technologies for water resource management. The session will highlight practical applications of RS in monitoring water quality, surface water changes, and droughts. Participants will learn how to use satellite data for flood forecasting, irrigation planning, and hydrological modeling. Experts will share case studies, tools, and techniques relevant to real-world challenges. The webinar provides a platform for knowledge exchange and professional networking. Staying updated on RS innovations is essential for effective, data-driven water sector decisions.

Registration:

To register to attend the webinar, please fill in the form below before 17 June 2025 to secure your spot:

Form Link : <https://zoom.us/meeting/register/M7t4VWu8QD6f7VTE8UkSDQ>

The webinar link will be sent to your email upon filling the form.

- **Date:** Monday, 23 June 2025
- **Time:** 1:00 – 3:00 pm (Cairo Time)
- **Platform:** Zoom

We look forward to your participation in this timely and important discussion. Together, we can work towards a resilient and sustainable future.

Webinar Language:

The webinar language is English and the translation is not available.

Bio of Tijmen Schults



Tijmen Schults (MSc.) is a hydrologist and remote sensing specialist at FutureWater, a research and consulting organization operating on the interface of water, climate, and agriculture. His work focuses on applying remote sensing methods, GIS analysis, and hydrological modeling to address environmental issues, with a particular focus on water resources management, climate change impacts and adaptation, and sustainable land use. Tijmen has contributed to international projects across Africa, Asia, and Europe. His expertise spans both technical analysis as well as capacity building, with emphasis on knowledge transfer through training and workshops.

Detailed Agenda:

Moderator: Prof. Dr. Tarek El-Samman , Senior Advisor and Member of Board of Governors, Arab Water Council

Time	Agenda Item
1:00 – 1:15 pm	Opening Remarks By: H.E. Prof. Dr. Mahmoud Abu-Zeid President, Arab Water Council
1:15 – 2:00 pm	"Data Collection and Analysis using Remote Sensing: Insights, Tools, and Innovations" Tijmen Schults Hydrologist/Remote Sensing Expert at FutureWater
2:00 – 2:10 pm	Participants Group Photo
2:10 – 2:20 pm	Commentator Prof. Abdin Salih Director of Arab Water Academy, Arab Water Council (AWC)
2:20 – 2:50 pm	Open Discussion
2:50 – 3:00 pm	Closing Wrap-Up and Way Forward Prof. Hussein El-Atfy Secretary-General, Arab Water Council (AWC)