PrimeWater - End-Users Consultation Workshop: Mulargia Reservoir

6th May 2021 | 10:00 AM (Rome time)

About PrimeWater: PrimeWater is a European Union Horizon2020 funded research project, which is building on satellite technology integrating other data sources and models to provide improved water quality and quantity forecasting. PrimeWater aims at establishing a complete value chain linking science with the water sector actual needs. PrimeWater is implementing a comprehensive consultation procedure with end users, scientists and water professionals, ensuring the co-development of adding value, intelligent products and services for the water quality challenges of the water sector.

About the Mulargia Reservoir:

Mulargia Reservoir is one of the PrimeWater case studies. Here, research is taking place to explore multiplatform optical data for assessing water quality. In Mulargia Reservoir, PrimeWater aims to assess the predictability of algae blooms – in terms of timing, extent, and intensity – for time scales spanning from several days to a few weeks ahead employing both process-based and data-driven models. PrimeWater will further evaluate the limits of those modelling approaches in terms of their sources of uncertainty and forecast horizons.

The workshop will have to following **objectives**:

- Inform ENAS representatives and local stakeholders on the current research findings of PrimeWater Project towards multiplatform optical data research outcomes and EO-based forecasting modeling advances for early HAB detection and rapid response.
- Demonstrate and discuss with stakeholders on the early version of the forecasting-based DSS for water blending in Mulargia reservoir for proactive tackling of HABs.
- Stimulate further work for the second half of the PrimeWater project.

We kindly ask you to register in advance for the meeting: https://iwalearn.zoom.us/meeting/register/tZEtcOivrT4qGdVOeJo4URRB-ZLN5_RHa4fl. After registering, you will receive a confirmation email containing information about joining the workshop. The draft agenda for the meeting is below.

Agenda workshop

Time	Opening Session
2 mins	Video
10 mins	Welcome and introduction (overview of PRIMEWATER; workshop objectives and structure) Setting the scene
10 mins	Participants introductions
	Part I – Exploring multiplatform optical data for assessing water quality
10 mins	Exploitation of satellite imaging spectrometry data from PRISMA/DESIS for mapping phytoplankton and aquatic vegetation
10 mins	Discussion
	Part II – Moving from Forecasting to Early Warning for HAB outbreaks
10 mins	Introducing Short to medium term forecasting of WQ for HAB Early detection and rapid response – Possibilities and limitations Presenting preliminary results on the skills of multiple WQ modelling approaches for HAB early detection
10 mins	Evaluating the possibilities of Seasonal forecasting of water quantity and quality attributes in the Mulargia Reservoir
10 mins	Setting up the key components for developing a forecasting-based DSS for water blending in Mulargia reservoir for proactive mitigation of HABs
30 mins	**Round table discussion and stakeholders expectations**
10 mins	Closing remarks

Total time: 1h 52 min