

PLATFORM VALIDATION AND CAPACITY DEVELOPMENT WORKSHOP : HYDRODYNAMICAL AND WATER QUALITY MODELING BASED ON THE MARINOMICA PLATFORM

Wednesday-Thrusday, 14- 15 July 2021

Venue: Online - Join Zoom Meeting using this link:

<https://spa-rac-org.zoom.us/j/93715337808?pwd=Y0prL3M2bm85ZDJxUy8zeTkrUW1Pdzo9>

Meeting ID: 937 1533 7808 / Passcode: kbbK79

WORKSHOP AGENDA

Day 1: Wednesday 14th July. 10:00-16:45 EG or CEST time	
1. ODYSSEA general introduction: project, sensors development, platform usage and services to end-users.	10:00 – 10:45 Dr. Emad Adly, RAED (15min)
2. General introduction on modeling and data assimilation	Prof. Georgios Sylaios, DUTH (15min) Prof. Ghada El Serafy, DELTARES (15min)
3. Demonstration of the last update (June 2021) of the Marinomica platform	10:45 – 11:15 Simon Keeble, BLIT
4. Marinomica products providing hydrodynamics / wave information	11:15 – 11:45 Dr. Katerina Spanoudaki, FORTH
Coffee Break	11:45 – 12:30
5. Hydrodynamics Modelling Training – Theory	12:30 – 14:30
6. Hydrodynamics Modelling Training - Exercise	14:30 – 16:30 Dr. Katerina Spanoudaki, FORTH
Discussion and Evaluation	16:30 – 16:45
Moderator: Eng. Essam Nada, RAED Technical Consultant	
Day 2: Thursday 15th 10:00-16:45 EG time or CEST time	
1. Recap of day 1, remaining questions on day one	10:00 – 10:30 Dr. Katerina Spanoudaki, FORTH
2. Marinomica Water quality related services (e.g. eutrophication)	10:30 – 12:00 Lőrinc Mészáros, Deltares
Coffee Break	12:00 – 12:30
Delwaq - Theory	12:30 – 14:30
a) Basic concepts in water quality modelling	Lőrinc Mészáros, Deltares
b) Selection of substances/parameters and processes (e.g. Oxygen, Nutrients (cycles of N, P and Si), Algae modelling)	

<p>c) Introduction to the Graphical User Interface. Short description of Delwaq components and tools implemented in the user interface.</p> <p>d) File formats and file structure</p>	
<p>Questions and Answers</p>	
<p>Delwaq - Practical Exercises</p> <p>a) Setting up a sample model (coupling to hydrodynamics, grid aggregation)</p> <p>b) Working with the Processes Library Configuration Tool</p> <p>c) Simulation and handling of error messages</p> <p>d) Interpreting and using the output files (QUICKPLOT / Matlab)</p>	<p>Lőrinc Mészáros, Deltares</p>
<p>Questions and Answers</p>	<p>16:15 – 16:30 Lőrinc Mészáros, Deltares</p>
<p>Closing and Evaluation of the 2 days training Moderator: Eng. Essam Nada, RAED Technical Consultant</p>	<p>16:30 – 16:45</p>