

**PLATFORM VALIDATION AND CAPACITY DEVELOPMENT WORKSHOP:
HYDRODYNAMICAL AND WATER QUALITY MODELING BASED ON THE MARINOMICA PLATFORM
Wednesday-Thursday, 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. 2. General introduction on modeling and data assimilation	10:00 – 10:45 Dr. Emad Adly, RAED (15min) 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 6. Hydrodynamics Modelling Training - Exercise	12:30 – 14:30 14:30 – 16:30 Dr. Katerina Spanoudaki, FORTH
Discussion and Evaluation Moderator: Eng. Essam Nada, RAED Technical Consultant	16:30 – 16:45
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 a) Basic concepts in water quality modelling b) Selection of substances/parameters and processes (e.g. Oxygen, Nutrients (cycles of N, P and Si), Algae modelling)	12:30 – 14:30 Lőrinc Mészáros, Deltares

<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>14:30 – 14:45 Lőrinc Mészáros, Deltares</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>14:45 – 16:15 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>