3ʳᵈ Short Course on Marine Data Literacy

for graduate and postgraduate students (3 ECTS)

INTRO LECTURES, online, October/November 2023

PRACTICAL SESSIONS, live in Split, Croatia, 2-10 December 2023

Joint **BIP** of the **SEA-EU University Alliance**, offered by:

University of Split, University of Algarve, University of Brest, University of Cadiz,

University of Gdansk, University of Kiel, and University of Malta

- Are you struggling to find and use data proficiently in your project?

- Why do it by trial and error, without getting the full picture, resources and competence?

- If you are seeking to consolidate your skills in applying data and the scientific method in your research and work, then this Marine Data Literacy course is what you need.

University of Split, University Department of Marine Studies & Faculty of Science

Intro lectures – online	Practical sessions – Live
1. Introduction to Marine Data 2. Reliable oceanographic data sources: Met-ocean data sets: climate, reanalysis, forecast and in situ data 3. Concepts of Ocean Data Management 4. Online Data Portals 5. Accessing and transforming data 6. Reliable oceanographic data sources: Ocean Remote Sensing: Data source, downloading and software (SNAP) 7. Applying AI to Oceanography 8. Managing and Processing (Big) Scientific Data 9. Introduction to learning algorithms, neural networks and clustering 10. Applying AI to Oceanography: case studies	1. Tides: Sea-level time series: detecting processes, stationarity and trends 2. Climate: Reliable oceanographic data sources: Introduction to sea state, wind wave and wind wave climate characterization. 3. Biology / Chemistry: Quality control and visualization data on Ocean Data View 4. Environment: Computing satellite-derived bathymetry in shallow areas in SNAP, QGIS or ArcGIS; From data formats to practical use of water column depth data. 5. Safety, Security / Pollution: Oil Spill Detection from space with SENTINEL-1

REQUIREMENTS:

1. **Activation of ERASMUS BIP Physical Mobility (Contact your Erasmus coordinator)**
2. Basics in Marine and/or Environmental Science, own laptop
3. Participation in the online Intro Lectures of the course
4. **Arrival in Split on Saturday, 2 December 2023; departure from Split on Sunday, 10 December 2023**

APPLICATION (only for PRACTICAL SESSIONS):

1. Fill in the online application (see **QR code** or **https://forms.gle/hg1pox42DW8xmHgh6**) and upload SUPPORT LETTER (written and signed by the professor of your university) & MOTIVATION LETTER
2. After receiving the letter of acceptance, you must contact your local ERASMUS coordinator to apply for and receive a short-term BIP ERASMUS mobility grant.

If you have any additional questions, please send an email with the subject "Question for 3rd Short Course on Marine Data Literacy" to **MarineDataLiteracy@unist.hr** .

DEADLINE for application is 15rd September 2023

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