

Summer Course

"The Dynamics of Semi-Enclosed Basins"

July 1 - 12, 2024

Submission Deadline: April 7, 2024 - 23h59 GMT

The Summer Course includes Theoretical Lectures, Practical Classes and Field Work activities as detailed below.

Theoretical Lectures (TL, 2 days), and keynote lecturer:

- TL1-Tides (H. de Swart)
- TL2-Shallow water tides and tidal residuals (H. de Swart)
- TL3- Effects of density gradients and wind (A. Valle-Levinson)
- TL4- Sand transport (J. Williams)

Practical Classes (PC, 4.5 days), with contributions from all lecturers:

- PC1-Principle of operations of instruments to be used
- PC2-Instrument preparation and configuration for deployments:
 - o PC2.1: seabed moorings
 - o PC2.2: tidal cycle survey
- PC3-Processing of the recorded data:
 - o PC3.1: tidal cycle data
 - o PC3.2: Moored data

Field Work (FW, 2 days) onboard the vessel MARUJALG:

- FW1- Seabed moorings of e.g., ADCPs, pressure sensors, CTDs, turbidity meter
 - o FW1.1: Deployment
 - o FW1.2: Recovery
- FW2- Tidal cycle measurements with CTD/multiparametric sondes, Niskin bottle, ADCP

		AM	PM
Monday	01-Jul	Welcome, Introduction	PC1 - Principles of operation of instruments
Tuesday	02-Jul	PC2.1 - Preparation of seabed moorings	FW1.1 - Seabed mooring deployment
Wednesday	03-Jul	TL1 - Tides	PC2.2 - Preparation of tidal cycle
Thursday	04-Jul	FW2 - Tidal cycle survey	FW2 - Tidal cycle survey
Friday	05-Jul	PC3.1 - Processing of tidal cycle data	PC3.1 - Processing of tidal cycle data
Monday	08-Jul	TL2 - shallow water tides and tidal residuals	PC3.1 - Processing of tidal cycle data
Tuesday	09-Jul	TL3 - Effects of density gradients and wind	FW1.12- Seabed mooring recovery
Wednesday	10-Jul	TL4 - Sediment transport	PC3.2 - Processing of moored data
Thursday	11-Jul	PC3.2 - Processing of moored data	PC3.2 - Processing of moored data
Friday	12-Jul	Final presentation of the students	Final presentation of the students

The final program can be subject of minor modifications.