Summer Course

"The Dynamics of Semi-Enclosed Basins"

July 1 - 12, 2024

Inscription Deadline: May 15, 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 (M. Diez-Minguito)
- TL2-Shallow water tides and tidal residuals (H. de Swart)
- TL3- Effects of density gradients and wind (A. Valle-Levinson)
- TL4- Sand transport (H. de Swart)

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:
  - *PC2.1: seabed moorings*
  - *PC2.2: tidal cycle survey*
- PC3-Processing of the recorded data:
  - *PC3.1: tidal cycle data*
  - *PC3.2: Moored data*

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

. FW1- Seabed moorings of e.g., ADCPs, pressure sensors, CTDs, turbidity meter
  - *FW1.1: Deployment*
  - *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 cyle data	PC3.1 - Processing of tidal cyle data
Monday	**08-Jul**	TL2 - shallow water tides and tidal residuals	PC3.1 - Processing of tidal cyle 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.