



EuroGOOS Tide Gauges Task Team

Terms of Reference (2 February 2018)

- As a European Tide Gauge Network assist in the standardization of tide gauge operations, data and applications of a multi-purpose network, based on GLOSS and ICG/NEAMTWS and other user requirements, and fulfilling the following basic needs:
 - a. Sea level trends, variability and climate change;
 - b. Sea level related hazards warning systems (storm surge, tsunamis);
 - c. Validation of numerical models and forecasts;
 - d. Comparison with altimetry and geodetic data;
 - e. Determination of coastal Mean Dynamic Topography to contribute to the unification of different height systems;
 - f. Fulfill the requirements of operational users.
- 2. Contribute to the development of the European Ocean Observing System (EOOS) with the identification of duplication and/or gaps on the geographical coverage and on the existing sea level data portals in Europe.
- 3. Promote the integration of tide gauge networks in ongoing and future European initiatives and identify relevant products required by sea level users.
- 4. Act as a link between national agencies of tide gauge operators and data providers, the EuroGOOS Regional Operational Oceanographic Systems (ROOS) data portals, and as the European component in GLOSS.
- 5. Promote research and tests of new sea level monitoring technologies.
- 6. Promote the recovery of historical data and related studies relevant for Europe including North African countries.
- Acknowledge existing data portals and ensure data availability according to the different applications. Assure delivery of tide gauge data to the ROOS data portals.
- 8. Promote the co-localization and use of additional instrumentation relevant for sea level applications such as ocean bottom pressure sensors, land movement monitoring stations (GNSS), atmospheric parameters, or tsunami sensors.
- 9. Ensure the implementation of new requirements on sea level quality control and data processing.

- 10. Provide recommendations (from operators to end-users) on:
 - Data structure, format and dissemination (interoperability of datasets);
 - Quality control procedures;
 - Validation procedures;
 - Technological solutions;
 - Complementary instrumentation (through interaction with other groups, e.g. GNSS).
- 11. Collaborate with the altimetry community for a better understanding of altimeter and tide gauge data calibration.

12. Be a framework for:

- Collation of a single database describing the in-situ monitoring equipment and its status across Europe;
- Sharing success stories and difficulties including analysis of the funding strategies and importance placed on this work in the different countries;
- Providing and exchanging open source tools (data analysis, applications...);
- Promoting the installation and/or inclusion of further stations from Northern Africa;
- Promoting scientific synergies for key questions;
- Promotion of joint proposals through networking (e.g. create synergies between different local consortium INTERREGs...).