



IMEKO TC-19 INTERNATIONAL WORKSHOP ON Metrology for the Sea

NAPLES, ITALY 5-7 OCTOBER 2020



CALL FOR PAPERS FOR THE SPECIAL SESSION ON:

MEASURING THE SEA: THE CONTRIBUTION OF MARINE GEOLOGICAL RESEARCH

ABSTRACT

Marine geological researches achieved major results in the last decades thanks to remarkable technological advancements, particularly for remote-sensing observations (ship- or ROV/AUV-based) and seafloor sampling techniques, which presently allow for the recovery of undisturbed sediments sections at the seafloor. The field of application of such technologies is wide, ranging from thematic map compilation, to geological-geophysical-geochemical observations leading to natural and anthropic impact and risk mitigation, as well as for the preservation of cultural heritages. The common requirement of these studies is the need for high accuracy and resolution in carrying out measurements.

TOPICS

The session aims to receive and discuss contributions in the following topics:

- Digital Terrain Models and seabed morphology;
- Backscatter surveys;
- Surveys and sampling from autonomous vehicles (AUV);
- Survey techniques and data processing for seismic stratigraphy;
- Measurements on bottom sediments (core logs);
- Ocean Bottom Seismic (OBS) applications for monitoring the active geodynamic processes;
- Lidar and laser scanner techniques for coastal and shallow water surveys, including drone surveys;
- Radar measurements and web-cam application for gauging coastal dynamics;
- Numerical and physical modeling describing or simulating the evolution of the seabed in shallow and deep waters.
- Acquisition, processing and interpretation of analytical data from sediments

ORGANIZED BY

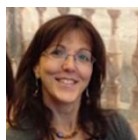


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SPECIAL SESSION #7



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