

Multi-Sensor Remote Sensing in Coastal Management



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Remote sensing is increasingly becoming important in coastal zone research and management. A combination of methods including modeling can be used for diverse end-user interests, e.g.

- surveillance and monitoring of storm surges, wave action and sediment transportation
- addressing extreme coastal events: flood protection, coastal erosion
- fluxes and fate of seawater constituents, including pollutants, oil spills
- hindcast and forecast of hazards and climate change scenarios.

This International Remote Ocean Sensing Workshop will stimulate discussions on innovative research, future needs and emerging applications (renewable energies, environmental observation, modeling & prediction). Operational and scientific stakeholders will exchange and discuss

- active and passive methods in all spectral ranges, sensor combinations incl. microwave oceanography, ocean optics and acoustic profilers
- satellite, airborne and ground-based methods including „ground truthing“
- modeling and validation, e.g. using tsunamis
- combined sensing of physical, biological and chemical processes in coastal areas.

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Speakers include:

Use of High Resolution TerraSAR X Measurements of Wind Field, Sea State and Morphodynamics for Monitoring of Coastal and Offshore Activities Dr. Susanne Lehner, DLR, Oberpfaffenhofen, Germany

Investigating Water Constituents in Coastal Areas using ENVISAT-MERIS Data and the Open Source Image Processing Toolbox BEAM Dr. Carsten Brockmann, Brockmann Consult, Germany

Multi-Sensor Remote Sensing of Oil Spills: One Facet of the Airborne Maritime Surveillance System MEDUSA Dr. Nils Robbe, Optimare Sensorsysteme AG, Germany

Comparison and Validation of Sea State Data from X-Band Sensors WaMoS II and TerraSAR X Andrea Lübben, OceanWaveS GmbH, Germany

Shallow Water Hydroacoustic Methods for Detection Wadden Sea Bed Characteristics Dr. Alex Bartholomä, Senckenberg by the Sea, Germany

Application of HF-Radar for Marine Renewables and Storm Surge Monitoring Prof. Lucy Wyatt, University of Sheffield, U. K.

Detection of Wave Spatial Variability for Impact Assessment of Wave Energy Installations Dr. Daniel C. Conley, University of Plymouth, U. K.

Temperature Trends in the North Sea: in-situ Measurements and Remote Sensing Options Dr. Rainer Reuter, University of Oldenburg, Germany

Contribution of HF Radar WERA to Tsunami Early Warning Systems Dr. Anna Dzvonkovskaya, IfM, University of Hamburg, Germany

Validation of a Tsunami Model Using Satellite Altimetry Data Dr. Sven Harig, Alfred-Wegener-Institute for Polar Research, Germany

Is it Possible to Build an Efficient Meteo-Tsunami Warning System? Dr. Ivica Vilibic, Institute of Oceanography and Fisheries, Croatia

The venue

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Conference Website:

<http://www.h-w-k.de/ROS2009.html>

Organisation

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