



# Multi-Sensor Remote Sensing in Coastal Management

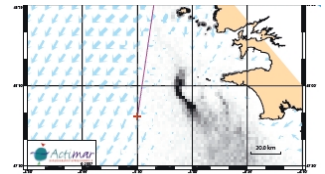
Programme ROS 2009

Monday, 23 November 2009

10:00 Welcome and Opening  
NWVM, Prof. Michael Schulz

## COASTAL ENVIRONMENT

Chair: Michael Schulz, MARUM, University of Bremen, Germany



**POLLUTANT MONITORING**

10:15 Radar Remote Sensing of Oil Spills from Satellites: Possibilities and Limitations  
Werner Alpers, University of Hamburg, Centre for Marine and Atmospheric Sciences, Germany

10:45 Investigation Water Constituents in Coastal Areas using ENVISAT-MERIS Data and the Open Source Image Processing Toolbox BEAM  
Carsten Brockmann, Brockmann Consult, Germany

11:15 Coffee Break

11:30 Shallow Water Hydro-acoustic Methods for Detection Wadden Sea Bed Characteristics  
Alex Bartholomä, Senckenberg by the Sea, Germany

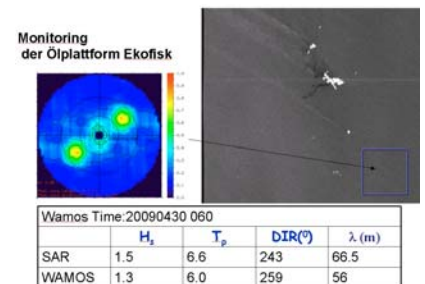
12:00 Multi-Sensor Remote Sensing of Oil Spills: One Facet of the Airborne Maritime Surveillance System MEDUSA  
Nils Robbe, Optimare Sensorsysteme AG, Germany

12:30 Discussion of Session  
COASTAL ENVIRONMENT

13:00 Lunch Break

## COASTAL ZONE MANAGEMENT

Chair: Carsten Brockmann, Brockmann Consult, Germany



14:30 Use of High Resolution TerraSAR X Measurements of Wind Field, Sea State and Morphodynamics for Monitoring of Coastal and Offshore Activities  
Susanne Lehner, DLR, Oberpfaffenhofen, Germany

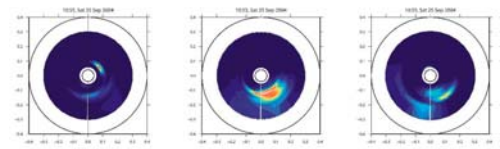
15:00 Detection of Wave Spatial Variability for Impact Assessment of Wave Energy Installations  
Daniel C. Conley, University of Plymouth, U. K.

15:30 Coffee Break

16:00 Application of HF-Radar for Marine Renewables and Storm Surge Monitoring  
Lucy Wyatt, University of Sheffield, U. K.

16:30 Discussion of Session  
COASTAL ZONE MANAGEMENT

18:00 Dinner at the HWK  
Sponsored by WERA, Helzel Messtechnik GmbH



Directional Wave Spectra, Seaview Sensing

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Programme ROS 2009

Tuesday, 24 November 2009

## COASTAL HAZARDS

Chair: Thomas Helzel, Helzel Messtechnik GmbH, Germany

09:30 Contribution of HF Radar WERA to Tsunami Early Warning Systems  
Anna Dzvonkovskaya, Institute of Oceanography, University of Hamburg, Germany

10:00 Is it Possible to Build an Efficient Meteo-Tsunami Warning System?  
Ivica Vilibic, Institute of Oceanography and Fisheries, Croatia

10:30 Validation of a Tsunami Model Using Satellite Altimetry Data  
Sven Harig, Alfred-Wegener-Institute for Polar and Marine Research, Germany

11:00 Coffee Break

11:15 Comparison and Validation of Sea State Data from X-Band Sensors WaMoSII and TerraSARX  
Andrea Lübber, OceanWaveS GmbH, Germany

11:45 Studying Coastal Changes Using VirtualShore3D and SiTProS  
Somporn Chuai-Aree, Prince of Songkla University, Thailand

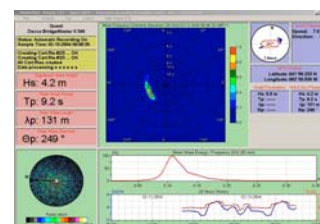
12:15 Discussion of Session  
COASTAL HAZARDS

12:45 Lunch Break

13:45 Temperature Trends in the North Sea: in-situ Measurements and Remote Sensing Options  
Rainer Reuter, University of Oldenburg, Germany

Open Round Table Discussion on the Needs and Perspectives of Remote Sensing of the Coastal  
end Zone  
Chair: Rainer Reuter, University of Oldenburg, Germany

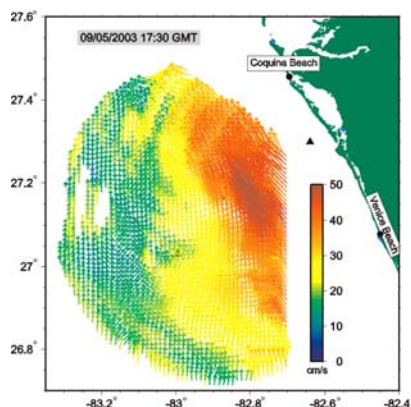
15:00 Final Coffee Break and Good-Bye



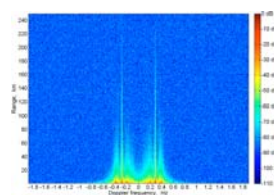
WaMoS GUI



Istanbul-City, Spot Geoserve nl



WERA Surface current image during the passage of tropical storm Henri on the 5<sup>th</sup> of September 2003 provided by RSMAS, Florida



Simulated Spectrum with Tsunami Currents