

## Towards High-Resolution of Ocean Dynamics and Terrestrial Surface Waters from space

### FIRST ANNOUNCEMENT

21-22 October 2010  
Lisbon International Fair  
Lisbon, Portugal

The last two decades of satellite altimetry observations have allowed scientists to make enormous progress in understanding ocean dynamics and in improving our knowledge of the science of lakes, rivers and wetlands.

The objective of this meeting “Towards high resolution remote sensing of ocean dynamics and terrestrial surface waters” is to provide a forum for scientific discussion on the “state of the art” of higher resolution applications and techniques for ocean and hydrological studies.

For the ocean part, the meeting will focus on the dynamics of mesoscale and sub-mesoscale processes at scales shorter than 300 km, such as the formation, evolution, and dissipation of eddy variability (including narrow currents, fronts, and quasi-geostrophic turbulence) and its role in air-sea interaction.

For the hydrology part, the meeting will focus on water storage changes in terrestrial surface water bodies (lakes, rivers, flood plains) and estimation of river discharge. It will also include advances in surface water science made possible through high-resolution spaceborne measurements, e.g. wetland dynamics.

**Expected Participation** – The symposium is designed to bring together scientists working on theoretical and modelling applications, as well as observational applications from different satellite systems and in-situ observations.

### Structure of the meeting

The meeting will consist of introductory and closing plenary sessions, and parallel ocean and hydrology sessions over a 2 day period. Sessions will be organised around invited oral presentations and posters and will follow a 3 day Ocean Surface Topography Science Team (OST-ST) meeting (October 18-20). The meeting is organised by CNES and EUMETSAT.

### Scientific Committee:

R. Morrow, N. Mognard, L.L. Fu, D. Alsdorf (co-chairs), P. Klein, B. Chapron, Pierre-Yves Le Traon, D. Chelton, D. Stammer, F. Lyard, J. Tintoré, P. Bates, S. Calmant, A. Boone, A. Cazenave, J.-F. Crétaux, H. Savenije, D. Lettenmaier, L. Smith.

### Organising Committee:

EUMETSAT: Gabriele Kerrmann, Francois Parisot, Madeleine Pooley  
CNES: Laurence Amen, Nicole Bellefond, Sophie Coutin-Faye

More general information concerning the week's events, including the two other associated meetings, will be posted on the conference web site: <http://www.ostst-hydro-2010.com>, expected to be available at the end of January 2010.