Integrative Study of Sea Level Budget

INTERNATIONAL SPACE SCIENCE INSTITUTE

Workshop 2 – 6 February 2015

Providing long, accurate records of sea level (global and regional), and of the various components causing sea level changes (land ice, ocean thermal expansion, salinity changes, land water storage, etc.) is crucial for validating the climate models used for future projections. The ESA Climate Change Initiative (CCI) program has provided the framework to produce consistent and continuous space-based records for several climate parameters (so called 'Essential Climate Variables' -ECVs-); among them, sea level, glaciers, ice sheets, sea surface temperature (SST) and Ocean Colour.

The objective of this workshop is to discuss in an integrative context recent results obtained by the ESA CCI program for the sea level, glaciers and ice sheets ECVs. Improvement of these ECVs allows better understanding the mass contribution to sealevel rise, hence of the sea level budget. The Workshop will also address the regional variability in sea level, SST and Ocean Colour, and discuss the relative contributions of the natural/internal climate variability and anthropogenic forcing (detection/attribution) to associated spatial trend patterns.

The Workshop is convened by
Anny Cazenave, Laboratoire d'Etudes en Géophysique et Océanographie Spatiales, Toulouse, France, and ISSI, Bern, Switzerland
Nicolas Champollion, ISSI, Bern, Switzerland
René Forsberg, Technical University of Denmark, Lyngby, Denmark, team leader of Ice Sheets (IS) of the ESA CCI
Pascal Lecomte, ESA/ESCAT, Oxford, United Kingdom, ESA CCI Programmer
Christopher Merchant, University of Reading, Reading, United Kingdom, team leader of Sea Surface Temperature (SST) of the ESA CCI
Frank Paul, University of Zurich, Switzerland, team leader of Glaciers of the ESA CCI
Andrew Shepherd, University of Leeds, United Kingdom

International Space Science Institute ISSI | Hallerstrasse 6 | 3012 Bern | Switzerland | Tel +41 31 631 48 96 | Fax +41 31 631 48 97 | www.issibern.ch