

Sea Level SpaceWatch Workshop - NOC, Southampton, Tuesday 22nd March

Agenda

Welcome - Introduction to the Sea Level SpaceWatch Project (09:30)

Session 1 – The need for monitoring sea level rise in a changing climate (09:35-11:00)

1. What we know about sea level variability around the UK. (09:35 – 10:15)
 - UK Sea Level Variability from Tide Gauge Data (Angela Hibbert, NOC)
 - Spatial footprint and temporal clustering of storm surges around the UK (Ivan Haigh, University of Southampton)
2. User Needs: (10:15 – 11:00)
The Environment Agency, Natural Resources Wales, The Climate Change Committee, Scottish Environment Protection Agency
(10 minutes each)

Break (11:00 – 11:30)

Session 2 - Sea Level SpaceWatch: Variability in UK Coastal Sea Level from Satellite Altimetry and Tide Gauges 11:30 – 13:00

1. Constructing model projections of century-scale change in extreme sea level for UKCP09 and UKCP18. (Tom Howard, Met Office) (11:30 – 11:50)
2. Sea Level Data from satellites and tide gauges (11:50 – 12:20)
 - Tide Gauge Data Processing for Sea Level SpaceWatch (Angela Hibbert, NOC)
 - Processing of coastal altimetry data for Sea Level SpaceWatch (Paolo Cipollini, NOC)
3. Analysis: Variability (in time and space) and errors / confidence levels (12:20 – 12:50)
 - Analysis of seasonal to interannual sea level variability from altimetry and tide gauge data (Francisco Calafat, NOC)
 - Stochastic modelling of the tide gauge, altimeter and GPS time series for realistic uncertainties in derived parameters (Simon Williams, NOC)
4. Example of a possible Site Specific Analysis - Discussion

Lunch (13:00 – 14:00)

Session 3 – Sea Level SpaceWatch Implementation – Business Plan 14:00 – 16:00

1. The Sea Level SpaceWatch Service Offering and Business Plan
David Cotton, SatOC (14:00 – 14:30)
2. User response and Discussion (14:30 – 15:30)
 - a. Identification and discussion of options
 - b. Further developments necessary before implementation
3. Possible Future Developments: Extensions outside UK (15:30 - 15:40)
 - a. Within Europe
 - b. Internationally – identification of vulnerable regions
4. Round up and next steps (15:40 – 16:00)

Close 16:00

Questions to support discussion on proposed Operational Service

1. Are further developments needed to the service for it to be useful, and to be something your organization would be prepared to fund?
 - Scientific issues to do with data processing and analysis
 - Technical issues to do with data / information presentation
2. Is the way the service is structured suitable? (i.e. public access to general web pages and data, more detailed analysis at a specified number of locations available to paying users, with scope for additional analyses paid for on demand).
3. Is the funding basis appropriate? (Initial set up cost, plus annual fee, become member of user board, meets annually to review service,....)
4. Are the projected costing levels at the right level?