

Deep - Sea Research II

Special Issue on Satellite Oceanography and Climate Change

Call for Papers

Satellites are essential tools in the present monitoring of Climate Change as they provide frequent measurements of the Earth over decades with significantly high spatial resolution. Satellite measurements of Sea Surface Temperature are a key component in the analyses of global warming and its effects. Altimeters are used to measure sea level rise at regional and global scales with an accuracy of less than 2 cm. A variety of satellite sensors (IR and visible radiometers, scatterometers, SAR and Gravity missions such as Grace) are used for tracking the melting of sea ice and continental ice over the Polar regions and Greenland. Large - scale natural oceanic oscillations such as El Niño or the Pacific Decadal Oscillation (PDO) are also monitored using satellite techniques.

We invite investigators to contribute original research articles that update the present knowledge of the satellite-observed oceanic variability related to Climate Change. Analyses can include both modeling and observation that use Satellite data. Potential topics include but are not limited to:

- Recent Sea Level Rise analyses
- Changes of Ocean Circulation
- Global warming and its effects on regional weather patterns, including hurricane activity
- Melting of Ice over the Polar Regions and Greenland
- Climate change effects on biological productivity
- Natural climate fluctuations and multidecadal variability

The initial Call is for a 1 page abstract with deadline 15th January 2011. From the abstracts submitted a list of approximately 25 - 30 will be selected by the board of Guest Editors and invited to develop a manuscript for peer review.

Selected manuscripts for the proposed volume will be required by 30th June 2011. Initial abstracts should be submitted by e-mail as a pdf file to the Lead Guest Editor including in subject "DSR2".

Lead Guest Editor

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