



# “Remote sensing of colour, temperature and salinity – new challenges and opportunities”

44th International Liège Colloquium on Ocean Dynamics  
7-11 May 2012

## Topic

Remote sensing has become an essential tool in oceanography. The development of new sensors and algorithms has extended the application of ocean remote sensing to new research domains, and new data analysis techniques are allowing to improve the quality of the data sets used for oceanographic and climatic research. Variables like sea surface temperature or those derived from the ocean colour have already shown their relevance to climate change studies. The use of satellite-derived salinity, as a fairly new data set, is an exciting opportunity to improve our knowledge of the ocean dynamics and ocean-atmosphere interactions.

There are also many open research questions that need to be addressed, or that are being actively addressed by the scientific community, and that are of particular interest for the 2012 Liège Colloquium: International efforts are aimed to quantify and correct biases between different sensors, which is needed for assessing long-term trends and their effects on the climate. The development and improvement of techniques to merge data from different platforms and create homogeneous time series is also needed. New challenges appear with the regionalisation of algorithms and their adaptation to coastal and closed domains. Uncertainty estimation needs to be assessed, and the retrieval algorithms need to be improved as we increase our knowledge of the ocean. The use of geostationary satellites allows for an estimation of the processes occurring at sub-diurnal scales, and specific algorithms for this type of platform may provide new opportunities, particularly for ocean colour.

The 2012 Liège Colloquium will be devoted to the latest developments in the research fields of salinity, temperature and ocean colour remote sensing. Open scientific questions and new research directions are of particular interest.

## Abstract Submission

Abstracts can be submitted:

- online at <http://modb.oce.ulg.ac.be/colloquium/>
- by e-mail to [oceanphys@ulg.ac.be](mailto:oceanphys@ulg.ac.be).

An abstract template is available on this website.

## Registration

The registration fee of 330 € includes all documents, a copy of the proceedings, coffee and bus services, receptions and the Colloquium dinner at the Château de Colonster. An invoice will be sent on request. Registration fees are 275 € if payment is received before March 15th, 2012.

Online registration through:

<http://modb.oce.ulg.ac.be/colloquium/>

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**Register online and send abstracts:**  
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## Venue

The Colloquium is held at the Liège University on Sart-Tilman. Liège can be reached conveniently by fast train connections from Paris and Köln and by regular train connections with airports in Brussels, Maastricht and Düsseldorf.

## Publication

Papers can be submitted for publication in a Special Issue in *Remote Sensing of Environment*. Only those papers presented orally or as a poster will be considered for publication.

## Deadlines

- Receipt of abstracts: 15 Jan 2012
- Decision of Scientific Committee on acceptance of papers: 31 Jan 2012
- Preliminary program: 31 March 2012
- Receipt of manuscripts for publication in *Remote Sensing of Environment*: 01 Sept 2012

## Sponsorship



- Fonds National de la Recherche Scientifique (FNRS, Belgium)
- Ministère de l'Emploi et de la Formation du Gouvernement Wallon
- Belgian Federal Science Policy Office (BELSPO)

## Local Organizer: Modelenvironment

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