

Call for contributions

2nd Workshop on Remote Sensing and Modeling of Surface Properties

9-11 June 2009, Météo France , Toulouse, France

<http://cimss.ssec.wisc.edu/itwg/groups/rtwg/meetings/sfcem/2009/>

Background:

Originating from a call to action from the International TOVS working group, the first international workshop on remote sensing and modeling of surface properties was convened in Paris in June of 2006. The potential benefits were thought to include a better understanding of how to model and remote sense surface properties in all spectral domains and ultimately be able to assimilate readily available surface-sensitive and window channels with a goal of improving forecast skill of numerical weather forecasting. A strong showing from more than 60 participants from over 10 countries came together to share ideas, solutions, and emphasis of research. Participant contributed to a special issue in the IEEE Transactions on Geoscience and Remote Sensing (Feb. 2008, vol. 46, no. 2).

Subject of the workshop:

The workshop is dedicated to the remote sensing and modeling of surface properties (radiometric and geophysical), as well as to the impact of assimilating surface-sensitive measurements. The meeting is to be held at the CIC conference center at Météo France, Toulouse from June 9th to June 11th 2009. Both microwave and infrared spectra are targeted by this workshop. In addition, all surface types are of interest including ocean, coast, land, and ice. A non-exhaustive list of more detailed topics is included below. This focused meeting will have no parallel sessions, poster and oral sessions, with plenty of time for the presentations, questions, and discussions.

Scientists involved in this area are cordially invited to submit a one-page abstract in English via e-mail, to be included in the final program of this workshop. The abstract should include a description of the proposed contribution, the name(s) of the author(s) and affiliation(s), mailing and electronic addresses and optionally phone and fax numbers. The abstracts should be sent to any of the email addresses listed below, no later than March 31st, 2009.

Registration

Registration may be done on-line, before March 31st, 2009, via:

<http://cimss.ssec.wisc.edu/itwg/groups/rtwg/meetings/sfcem/2009/register>

There will be no registration fee; however, we ask participants to have cash on hand for lunch at the on-site restaurant.

Meeting topics

The following non-exhaustive list of scientific topics is suggested:

- ◆ Description of methodologies to assimilate surface-sensitive radiances in NWP centers (both in operational and research modes), including cloud screening approaches and handling of surface temperature (IR and MW)
- ◆ Data assimilation impact studies and diagnostics performed using surface-sensitive IR and MW radiances with an emphasis on ocean, land surfaces, Arctic and Antarctic regions.
- ◆ Discussion about the use of satellite observations in limited area models and specification of land surface parameter requirements for such models.
- ◆ Overview of emissivity/reflectivity models and description of available land emissivity databases/atlasses (MW and IR). Review of current available parameters for forward modeling of infrared and microwave emissivities.
- ◆ Intercomparison/validation of physical models and directly retrieved emissivities (MW and IR, including land, ocean, and ice surfaces).
- ◆ State of the operational land surface modeling systems and recent developments.
- ◆ Retrievals of surface parameters such as sea surface wind, soil moisture, canopy water content, sea-ice concentration, snow water equivalent, etc. and the resulting surface emissivity/reflectance spectra.
- ◆ Methods of assimilating surface parameters into numerical weather prediction models.
- ◆ Other relevant topics

Scientific and Organizing committee (*Please use the online registration or send your abstract to any of the following electronic addresses before February 27th 2009*):

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This workshop is sponsored by Météo-France, NOAA/NESDIS Office of Research and Applications (STAR), Centre National d'Etudes Spatiales (CNES), EUMETSAT, Joint Center for Satellite Data Assimilation (JCSDA) and the International TOVS Working Group.