

# Working group action items from ITSC-20

Radiative transfer and surface properties

## *Scattering RT intercomparison*

**Action RTSP-1** : Paul van Delst (IMSG@NCEP/EMC), Marco Matricardi (ECMWF), Jerome Vidot (MeteoFrance), and Pascal Brunel (MeteoFrance) to coordinate this task with the RTSP-WG to determine data requirements and define any standard approaches or data formats.

## *Colocated data sets*

**Action RTSP-2** : Sergio Machado (UMBC) to provide AIRS/ECMWF 7000 profile matched dataset.

## *Aerosol optical properties*

Requests were made regarding the availability of aerosol optical property data, as well as a recognition that current laboratory data for aerosol refractive indices should be reviewed for use in any intercomparisons.

**Action RTSP-3** : Paul van Delst to contact Dave Turner (NOAA/NSSL) regarding aerosol refractive index data.

**Action RTSP-4** : Marco Matricardi to provide links to aerosol refractive index and optical property datasets, as well as electromagnetic theory code to compute aerosol optical properties.

## *Datasets for validation*

Use of GRUAN datasets for validating LBL RT models was discussed. Several datasets of colocated ground-based and IASI measurements are available.

**Action RTSP-5** : Marco Matricardi (ECMWF) to provide information on how to obtain the GRUAN datasets available on the RTSP-WG website.

## 183GHz Workshop

The general feeling regarding the issues at 183GHz was that we don't really know what is going on. It was also noted that the measured spectral response of microwave instruments are not generally available.

**Action RTSP-6** :Marco Matricardi to make the workshop final report available on the RTSP-WG website.

**Action RTSP-7** : Paul van Delst to make the measured spectral response functions for ATMS and GMI available via the RTSP-WG website.

## *Surface emissivity datasets*

Ben Ruston (NRL Monterey) brought to the RTSP group's attention that he, Eva Borbas, and Glynn Hulley (NASA/JPL) are working on a better definition of snow emissivity spectra in the infrared.

**Action RTSP-8** : Ben Ruston to notify the RTSP-WG co-chairs when the improved snow emissivity dataset becomes available.

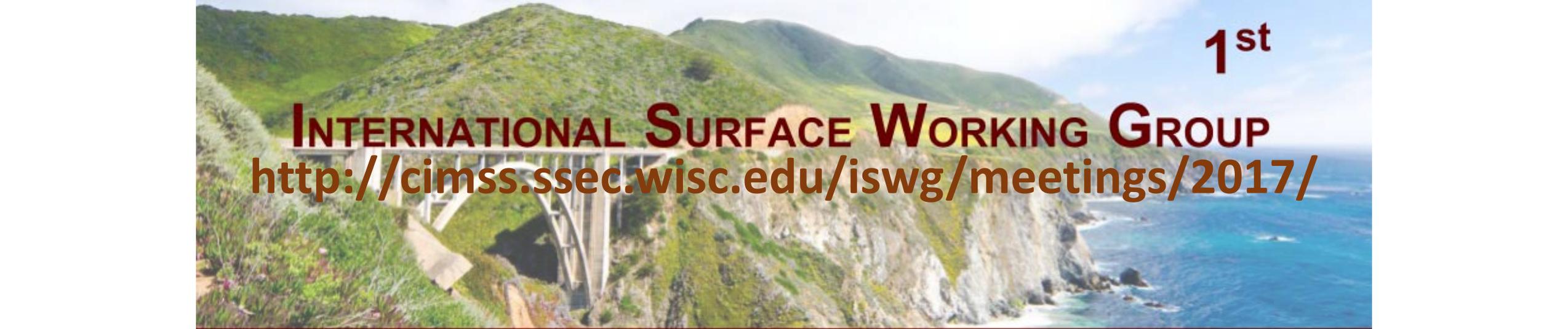
## *Other issues*

**Action RTSP-9** : Paul van Delst to contact AER Inc. and find out what portions of the OSS software package are public.

## *Carryover from ITSC-19*

**Action RTSP-10** : Paul van Delst to followup on ITSC-19 RTSP-WG action items 1, 4, 12-14, 16-19, and 21.

**Action RTSP-11** : Stu Newman (MetOffice) to follow up on ITSC-19 RTSP-WG action items 3 and 7



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# INTERNATIONAL SURFACE WORKING GROUP

<http://cimss.ssec.wisc.edu/iswg/meetings/2017/>

19-20 July 2017, Monterey, California

The Earth Observation (EO) community has recognized a need to address deficiencies in the use of observations sensitive to **land surface temperature, soil moisture, snow and inland water body extent**.

- Following **four** Remote Sensing & Modeling of Surface Properties (RSMSP) meetings
- 2<sup>nd</sup> meeting **10-11 July, 2018 Lisbon, Portugal** (hosted by Isabel Franco Trigo)
- Special issue in journal Remote Sensing (note flyer in conference handouts)  
**deadline extended 28Feb2018**