



<http://cimss.ssec.wisc.edu/iswg/meetings/2019/>

## Introduction

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# International Surface Working Group (ISWG)

The group was formed from a sub-group radiative transfer working group at ITWG.

As the Remote Sensing and Modelling of Surface Properties (RSMSP) four workshops were organized in 2006, 2009, 2011 and 2016.

The ISWG has a focus on the land surface, and to incorporate modeling experts as well as those in data assimilation and remote sensing.

The group is conferring with the WMO and with the CGMS to establish itself as a working group within the [Coordinated Group for Meteorological Satellites \(CGMS\)](#)



**2<sup>nd</sup> International Surface Working Group**

EUMETSAT  
**LSA SAF**  
LAND SURFACE ANALYSIS

26-28 June, 2018  
Lisboa, Portugal



**IPMA**

**Joint Workshop of the 2nd International Surface Working Group (ISWG) and 8th Land Surface Analysis Satellite Application Facility (LSA-SAF)**

We are delighted the 2nd International Surface Working Group (ISWG) will be held jointly with the 8th Land Surface Analysis Satellite Application Facility (LSA-SAF) Workshop in Lisbon, Portugal on the 26-28 June, 2018 at Instituto Português do Mar e da Atmosfera (IPMA). This workshop will be joint with the 8th LSA-SAF Workshop, we welcome your participation in this joint workshop event.

The aim of the International Surface Working Group (ISWG) is to gather requirements specific to surface observations to enhance both our understanding and ability to monitor the components of the Earth system including land, vegetation, snow, ice, and coastal and open waters. The EUMETSAT Land Surface Analysis Satellite Application Facility (LSA-SAF) aims to increase the benefits accrued from satellite data, specifically for terrestrial processes, land-atmosphere interactions and biospheric applications. One of the target applications of the LSA-SAF product is to assess and improve the quality of land surface models.

**Focus of the Meeting**

Announcement
Registration
Venue
Directions
Hotels
Program



**1<sup>st</sup> INTERNATIONAL SURFACE WORKING GROUP**

19-20 July 2017, Monterey, California

**The International Surface Working Group**

An International Surface Working Group meeting was proposed by the International TOVS Working Group's sub-group on surface remote sensing and modelling at its 4th workshop held in Grenoble in March 2016. This new working group will meet for the first time in Monterey, California in July 2017, and will aim at becoming forum to collect and provide expert recommendations and coordination for observations providing information about the earth's surface. This initiative has been supported by the Earth surface community, recognizing the need for a group addressing surface **Earth Observation (EO)**.

This International Science Working Group would integrate outcomes from existing groups with a new effort for the Earth's surface, gathering requirements that are specific to surface observations supporting the monitoring and understanding of this complex and intertwined component of the Earth system including land, vegetation, snow, ice, and coastal and open waters. A coordinated effort to bring concerns and advances from the scientific community could bring a clear focus by reviewing what technology has reached a maturity level to be directly used in surface monitoring, data assimilation and modelling applications.

Announcement
Presentations
Venue
Directions
Activities

## International Surface Working Group (ISWG)

Goal: Gather requirements specific to surface observations  
What are most impactful observation to define Earth system:  
land, vegetation, snow, ice, and coastal and open waters

Facilitate and guide **continuity of measurements** to advance science

Communicate across agencies methods and data to achieve common objectives

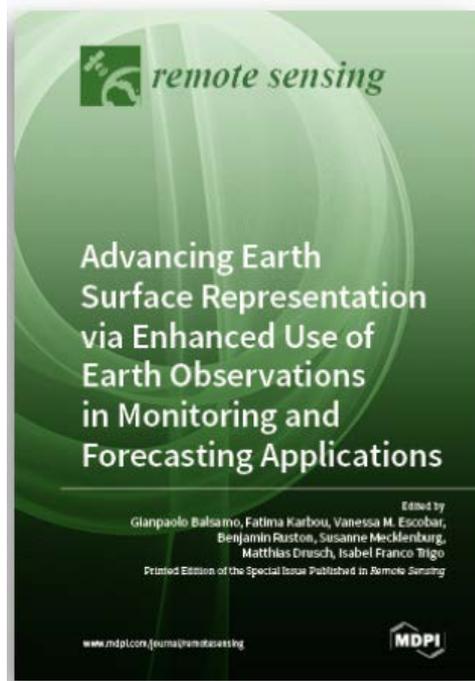
Promote the science and goals for earth observation and modeling

Foster and explore new areas for research

# International Surface Working Group (ISWG)

## Previous Actions:

<https://doi.org/10.3390/books978-3-03921-065-7>



***ISWG\_2018\_A1: Action to distribute and collect responses for a survey of ESM community to link requirements regarding land surface to those of EO-agencies.***

Available upon request from:

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-Or-

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isardSAT™

*Low Frequency Passive Microwave  
User Requirement Consolidation  
Study*

ESA ITT AO/1-8731/16/NL/IA  
D-02 White paper on L-band  
radiometry for earth observation:  
status and achievements



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**THANK YOU**

# International Surface Working Group (ISWG)

## Selected Current Actions and Recommendations:

**ISWG\_2019\_A1: Action** collect configuration for land data assimilation being used now by research/operational centers.

**ISWG\_2019\_A2: Action** survey research/operational centers to clarify the critical land surface observations.

Survey at: <https://forms.gle/VogFqie5MvreCcTr6>

Soil Moisture

ASCAT, SMOS, SMAP

LAI

PROBA-V, MODIS

Snow cover

IMS product

LST

SEVIRI, IASI

**ISWG\_2018\_R3: Climatology** L-band, C-band, GNSS-R to be used as a baseline record for Earth System Models (ESMs) to replicate.

ISWG-4 Planned for September 2020 in Helsinki, Finland