

# WORKING GROUP ON SATELLITE SOUNDER SCIENCE AND PRODUCTS

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## About SSSP

<http://cimss.ssec.wisc.edu/itwg/sssp/>



### International TOVS Working Group Sub Group for Satellite Sounder Science and Products

Co-Chairs: Tony Reale, NOAA/NESDIS/ORA  
Lydie Lavanant, Météo-France

#### Products and Science

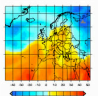
- Soundings
- Winds
- Clouds
- Precipitation
- Surface
- Trace Gases
- Radiance Products
- Level 3 Users
- Scientific Processing Packages
- Line by Line RT Models
- Fast RT Models
- IAAP
- IAPF
- ICI
- TOVAR
- IMAPP

#### About the SSSP

The mission of the sub group on Satellite Sounder Science and Products (SSSP) is to create a forum for scientific algorithms and products from operational and research weather satellites, and to promote scientific exchange among the international group of researchers and product developers.

The goal of this web site is to establish a mechanism for the dissemination and exchange of information across the international community on available science and products.

The contributions are currently divided into science and product areas. Click on a topic to go to a listing of contributors for any area.



More about SSSP...

Want To Share Your Research on this Site?

Find out how to contribute

Email the Co-Chairs  
Email the SSSP Webmaster

#### About the SSSP

A new International TOVS Working Group (ITWG) sub group on Satellite Sounder Science and Products (SSSP) was created at the 11th International TOVS Study Conference, held in Budapest Hungary in September 2000. The main purpose of this sub group is to create a forum for current scientific algorithms and associated derived products from operational and research satellites, and to promote scientific exchange among the international group of researchers and product developers.

One action of the ITWGSSSP was to create a new SSSP web site, available through the ITWG web site. The SSSP web site will serve as the focal point for promoting correspondence and exchange among scientists working in the product derivation area. A goal is to establish a home base, and mechanism for the dissemination and comparison of information across the international community, and the spectrum of available science techniques and products.

The longer term goals of the WQSSSP will be to report to the ITWG on

- the current status of derived products and scientific algorithms,
- the progress made since the last ITWG meeting,
- perceived areas of strengths and weaknesses, and
- recommended actions.

#### About Contributions to this Site

Dear Colleagues,

At the 11th International TOVS Study Conference (ITSC-XI, Budapest, 2000), the Working Group (WG) on Satellite Sounder Science and Products (SSSP) was formed to promote the importance and continued development of scientific techniques for deriving environmental products from operational (and research) weather satellites. The focus of the WG is mainly on polar orbiting satellites (given their global coverage), but combined polar and other (i.e., GOSPs, GSPs) platforms are also of interest. The primary objective is to facilitate better communication and collaboration among scientists within the international research and operational communities by providing a central location for information dissemination and exchange.

A mechanism for achieving this goal is embodied in the SSSP web site, which is now maintained within the ITWG web site, and which provides latest information on operational and research satellites, scientific products and algorithms, data availability, validation, and contact information. In addition, the SSSP site is also a source of scientific information such as satellite instrument health, new launches, and issues of concern within the research and user communities. See <http://cimss.ssec.wisc.edu/itwg/sssp/>.

Given the ongoing expansion in product derivation techniques, and the launch of and preparation for new platforms (e.g. AQUA, ENVISAT, ERS, NPP, FY-3, NPOESS, Meteosat-3a, ADEOS-2) and next generation instruments (AIRS, IAGS, ATMS, CHRIS-1) we anticipate that new and improved techniques, products and applications have become (are becoming) available (are to become) available. We ask that current contributors to the SSSP web site please update their inputs as needed, and welcome new contributors to register their work on the SSSP site by submitting the following inputs:

- Brief summary (or abstract),
- Associated graphs, and
- Web site link (if available).

When updating or submitting new inputs, please consider the following information:

- Data Type: satellite(s), instrument(s), global, direct broadcast, (HRPT)
- Processing Scenario: i.e., real-time operational, post-processing, research case studies
- Application: (current and planned) i.e., Nowcasting, NWP, assimilation, Climate,
- Scientific Processing: the use of available "Satellite Pre-processing" (i.e., AAPP) and Post-processing (i.e., IAPP, IMAAP, RTTOV, OPTNAN, ...) packages, or developed in-house.
- Product Evaluation: validation strategy and results.
- Availability and Exchange: are products (and software) available (real-time, archived, online?) and would you be interested in exchanges.

As always, we value your participation and comments regarding WQSSSP activities, and ask that you forward this letter to any non-ITSC members that may want to submit inputs. Please send inputs via email to both Co-Chairs:

Tony Reale@noaa.gov  
Lydie.Lavanant@meteo.fr

## Products and Science

(43 sites)

Product Name	Level 1	Level 2	Level 3
1. Wind	Available	Available	Available
2. Clouds	Available	Available	Available
3. Precipitation	Available	Available	Available
4. Surface	Available	Available	Available
5. Trace Gases	Available	Available	Available
6. Radiance Products	Available	Available	Available
7. Level 3 Users	Available	Available	Available
8. Scientific Processing Packages	Available	Available	Available
9. Line by Line RT Models	Available	Available	Available
10. Fast RT Models	Available	Available	Available
11. IAAP	Available	Available	Available
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12. IAPF	Available	Available	Available
13. ICI	Available	Available	Available
14. TOVAR	Available	Available	Available
15. IMAPP	Available	Available	Available

## Processing Packages and Status

### Sub Group for Radiative Transfer and Surface Modelling

#### Line by Line Models and Spectroscopy

RT and surface home page

Atmospheric profile datasets

Instrument characteristics

Line by line models

Fast RT models

Model inter-comparisons

Surface property models

The ATOVS and AVHRR Processing Package (AAPP)

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### Sub Group for Radiative Transfer and Surface Modelling

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### Direct Broadcast

The purpose of this page is to identify and inform the international community about active High Resolution Polar (HRP) instruments and to facilitate intercomparison of data from these instruments.

Operational NOAA Polar Satellites

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