

International TOVS Working Group

Sub Group for Satellite Sounder Science and Products

SSSP Home

- Products and Science
- Scientific Processing Packages
- Current/Future Weather Satellite Programs
- Operational Instrument Characteristics and Performance
- Direct Readout
- Cal/Val
- Useful Datasets for Satellite Data Processing
- ▶ Email the Co-Chairs
- ▶ SSSP Webmaster

Products and Science

The SSSP co-chairs have solicited contributions from members on their work in the science and product categories below:

- [Soundings](#)
- [Winds](#)
- [Clouds](#)
- [Precipitation](#)
- [Surface](#)
- [Trace Gases](#)
- [Radiance Products](#)
- [Level 3 Users](#)

Survey
HRPT Sites
Operational NOAA Polar Satellites
Research Satellites
Future Satellites
EARS

come. See our ["How to Contribute"](#) page.

SATELLITE SOUNDER SCIENCE AND PRODUCTS

Working Group Co-chairs: A. Reale, L. Lavanant and T. Achtor ... Leanne Avila

ISSUES

1. Review global HRPT directory (L. Lavanant)
 - X-band receiving station registration (Kathleen S, John Overton...)
 - Latin America coordination ...
2. Software for local HRPT ingest/process ATOVS (N15,16,18), MetOp, *NPP*, *NPOESS* data
 - level 1 for MetOp and NPP (AAPP)
 - Level 2 for MetOp, AIRS... (IMAPP)
 - IPOPP (John Overton) ... also data atlas (Eva B)
3. Global data from/for local HRPT
 - RARS (HRPT site list, southern hemisphere coverage; J. LaFeuille, David G)
 - EARS (i.e., from Nigel A)
 - Level-1 from global centers for checkout (Uspensky, Sharma ...)
4. Sensor metadata (e.g. calibration, health, antenna patterns etc)
 - Instrument co-registration visualization (T Kleespies) (*New*)
 - Local versus global sensor calibration consistency
 - SNO (see Cal/Val) area
5. Multiple Satellite Level 2 Validation (A. Reale)
 - Candidate satellites/algorithms for comparison
 - Compile/access Co-location datasets
 - Analysis; short-term, *long term* (see Cal/val)

Updated table:

Station Name	Country	Operated by	Location (lat, long)
Lannion	France	CMS	48.75°N, 3.47°W
Maspalomas (Canaries)	Spain	INTA/INSA	27.78°N, 15.63°W
Kangerlussuaq	Greenland	DMI	66.98°N, 50.67°W
Svalbard (Arctic)	Norway	KSAT	78.13°N, 15.23°E
Athens	Greece	HNMS	38.0°N, 23.44°E
Edmonton	Canada	MSC	53.50°N, 113.50°W
Gander (Newfoundland)	Canada	MSC	48.95°N, 54.55°W
Gilmore Creek (Alaska)	USA	NOAA	64.97°N, 147.40°W
Wallops Island (W Virginia)	USA	NOAA	37.85°N, 75.47°W
Monterey (California)	USA	NOAA	36.60°N, 121.89°W

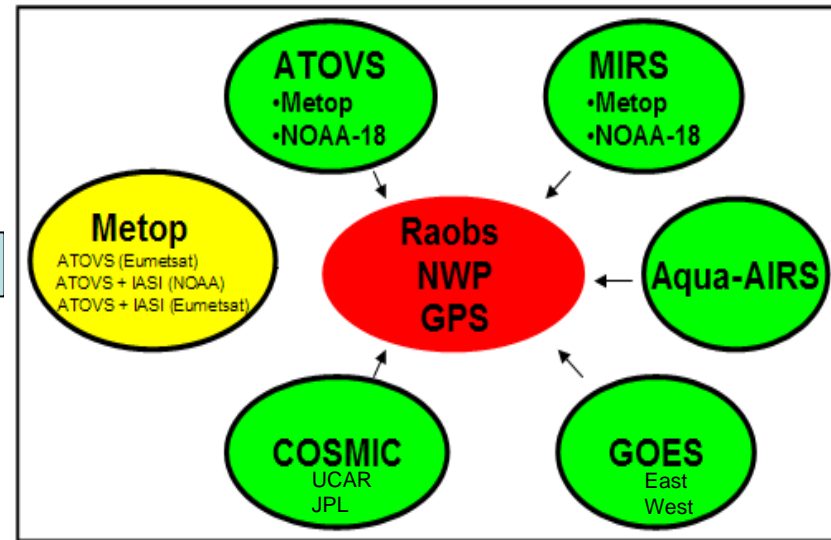
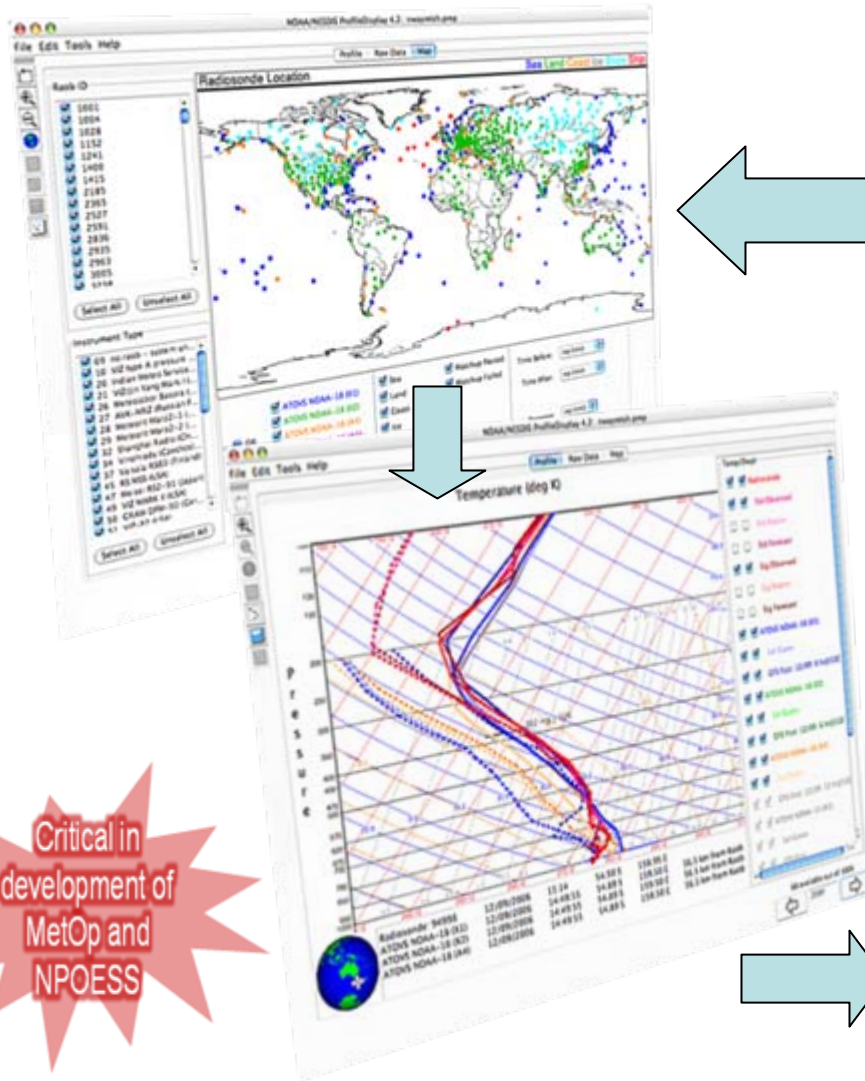
Section on Access to EARS:

To access EARS, users need to establish a [EUMETCast](#) receiving station. For a detailed description of [EUMETCast](#) and information on receiving station requirements please consult the [EUMETSAT EUMETCast page](#).

NOAA Product Integrated Validation System (NPROVS)



... streamlining the processing of data, calibration, and validation from satellites and ground stations.



Environmental Data Graphic and Evaluation System (EDGE)

- Collocated multiple platforms of ground truth vs satellite observations.
- Displays radiosonde and satellite profiles.
- Displays a geographic distribution of collocations
- Displays statistics that shows the vertical accuracy between a radiosonde and one or more satellite soundings.

ISSUES (cont)

6. Access to NOAA and EUMETSAT ATOVS and IASI Level-2 data products (A. Reale)
 - opportunities for validation (also JAIVEx for MetOp IASI...),
 - Identify level 2 users ...
 - Access of Level-1 data, (T. Achtor, Dieter)

7. Current/Future Satellite Weather Programs
 - Brazil (needed), Canada, China ... *Session 11 speakers, Karen G*

8. *Expanded Instrument Status (NOAA, MetOp, DMSP, EOS, SAF)*
 - *Expand to China, Japan, India ...*

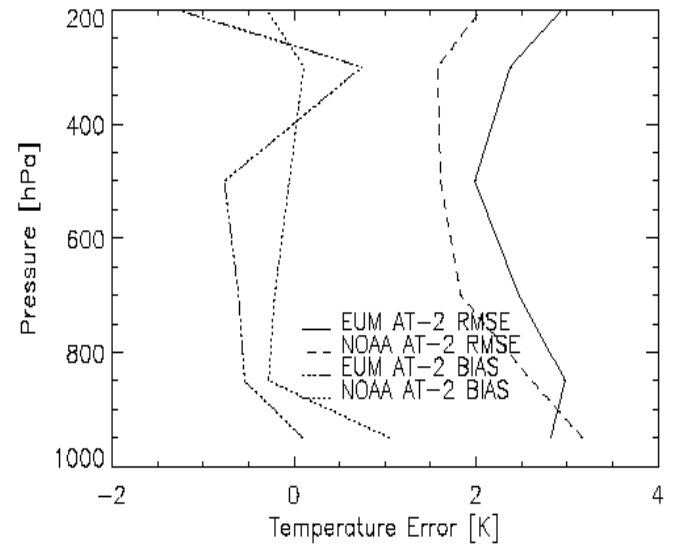
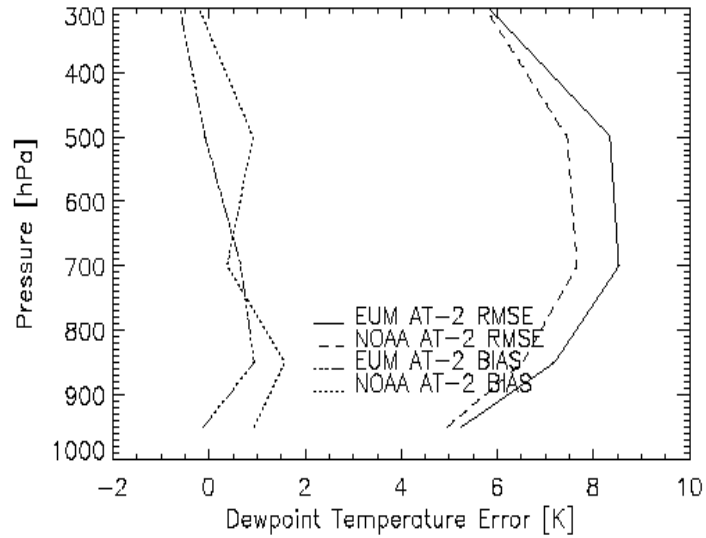
9. (New) Frequency Protection Topic area (R. Kelley...)

10. (New) data Visualization tools/access topic area
 - For example, MclDasX; V (Achter)
 - Forward Model Visualization (i.e., P. Brunel for RTTOV)

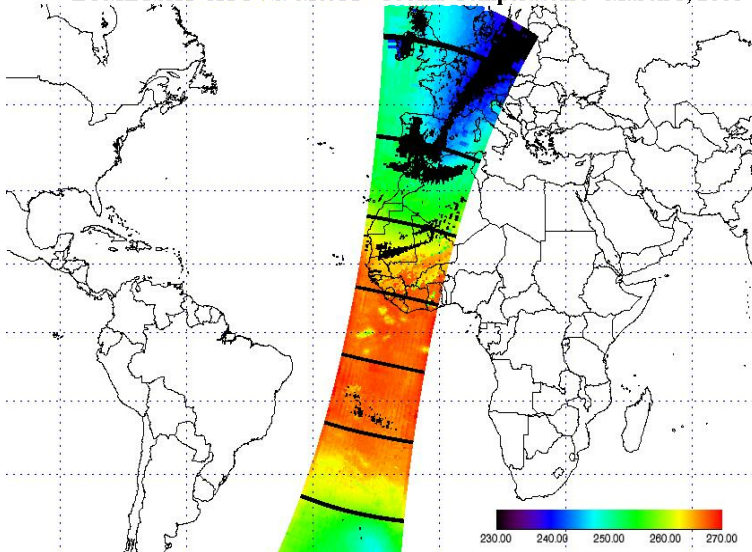
11. Review web page structure / content
 - <http://cimss.ssec.wisc.edu/itwg/sssp/index.html>
 - WG member responsibility for selected areas/sub-areas

NOAA / EUMETSAT MetOp Products Exchange

(Eamonn McKernan, Tony Reale)



EUMETSAT ATOVS/ MetOP 500mb Temperature March 5, 2008



NOAA ATOVS / MetOp Temperature 500mb March 5, 2008 10Z

