



An Overview of NRL/FNMOC Satellite Assimilation Activities

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- **NAVDAS-AR (4D-Var), global → OPS Fall 2008**
 - AMSU-A
 - IASI (Ruston; 7,7)
 - AQUA AIRS/AMSU-A
 - SSMIS lower assimilation sounding (LAS) channels (6.4)
 - SSMI, SSMIS, WindSat winds and TPW
 - Scatterometer, geostationary and MODIS AMV
- **NAVDAS (3D-Var), global**
 - Comparisons of CRTM vs. RTTOV-8.7 (A34)
 - Assimilation of MR/IR over land; MW/IR emissivity (6.4)
 - Aerosol optical thickness (AOT) assimilation
- **SSMIS Unified Pre-Processor (Swadley/Bell; 1.8)**
- **Observation impact using adjoint techniques (3D, 4D-Var)**
- **Stratospheric and Mesospheric Assimilation (A16)**
 - SSMIS Upper Atmosphere Sounding (UAS) Channels
 - NASA TIMED/SABRE, AURA/MLS, ozone, GPS-RO

Initial
Sensor
List

International TOVS Study Conference, 16th, ITSC-16, Angra dos Reis, Brazil, 7-13 May 2008.
Madison, WI, University of Wisconsin-Madison, Space Science and Engineering Center,
Cooperative Institute for Meteorological Satellite Studies, 2008.