



Ongoing developments on satellite radiance assimilation at Météo-France

N. Fourrié, Ph. Chambon, V. Guidard, D. Raspaud, J.-F. Mahfouf, Z. Sassi, O. Coopmann, P. Moll.

In operations

Infrared sounders :

- Data from CrIS on board NPP and NOAA20, the 3 Metop satellites and from the 4 geostationary satellites
- Assimilation of IASI tropospheric and surface sensitive channels with retrieved surface temperature from one IASI window channel over land.
- **Use of correlations in observation errors for IASI and CrIS.**

Microwave sounders :

- **Assimilation of AMSU-A/MetOp-C, MHS/MetOp-C and ATMS/NOAA-20**
- **Monthly emissivity atlases from RTTOV when dynamical surface emissivity estimates fail.**

On-going activities :

Infrared sounders :

- Strengthening of the coupling chemical transport model and NWP model for ozone IASI channel assimilation in 4D-Var (O. Coopmann, 9.03)
- Towards the use of retrieved land surface temperature for the surface analysis. (See Z. Sassi p10p.09)

Microwave sounders :

- Assimilation of cloudy and rainy observations (Ph Chambon, 05.02)

