

Ongoing developments on satellite radiance assimilation at Météo-France

Status of the operational framework and recent evolutions

- FSOi statistics for 2022
- Updates in the parallel suite in CY48T1: use of the **ECMWF allsky route** for MHS, MWHS2, GMI, AMSR2, update of the **IASI R matrix, update of GEO** satellites (Himawari-9 and GOES-18)

Ongoing research for future evolutions

- Preparation to the assimilation of the **IRS** instrument onboard MTG
- Preparation to the assimilation of **IR data affected by clouds** (MTG/FCI) and synergy with cloudy MW obs.
- Use of **multiple microphysical assumptions** for the all-sky assimilation of MW data
- Preparation to the assimilation of **TROPICS data**

Impact assessment studies

- **OSSEs** for **EPS-Sterna** and **CMIM** constellations and **IASI-NG**
- **EDA for WIVERN** and comparative impact on spread with AEOLUS

