

Ongoing developments on satellite radiance assimilation at Météo-France

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Status of the operational framework and recent evolutions

- FSQj statistics for 2024
- Updates in the **parallel suite in CY49T1**: Assimilation of CrIS/NOAA-20 data in **Full Spectrum Resolution**, Assimilation of **GOES-18 ABI** radiances, Using **multiple particle shapes** within the ARPEGE EDA for MW allsky radiances, Monitoring of MWTS3 onboard FY3-E

Ongoing research for future evolutions

- **MW all-sky** assimilation of MHS, MWHS2, GMI and AMSR2 within the AROME 3DEnVar
- MW all-sky assimilation of AWS and MWRI data within ARPEGE
- **IR allsky** assimilation of IASI within ARPEGE
- Assimilation of **LST derived from SEVIRI** within the AROME 2DEnVar
- **Horizontal observation error correlations** for SEVIRI data assimilation within AROME

Impact assessment studies

- OSSEs for IASI-NG and WIVERN

