Overview of the radiance assimilation in the Meteo-France NWP models

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Developments for the infrared sounders:
- Enhancement of the usage of hyperspectral sounders
  - Ozone channels (IASI)
  - Tropospheric channels (CrIS)
- 5 geostationary satellites are now assimilated.
- Use of surface emissivity atlas and retrieved surface temperature from one IASI window channel for the assimilation over land.

On-going activities:
- All-sky infrared assimilation (I Farouk)
- Towards the strengthening of the coupling between the chemistry transport model and the NWP one (O. Coopmann).

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Developments for the microwave sounders:
- New instruments tested since 2015: GMI, MWHS2, AMSR2, MTVZA-GY
- Monthly emissivity atlases
- Improved quality control of SAPHIR observations using RTTOV SCATT

Other developments:
- Tests with band correction RTTOV coefficients
- Increase thinning ratio
- Using South America DbNet RARS data for the short cutoff