

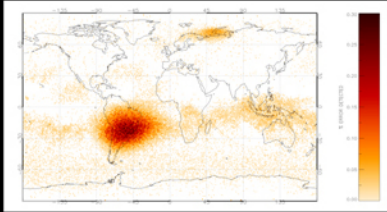
# IASI TECHNICAL EXPERTISE CENTER

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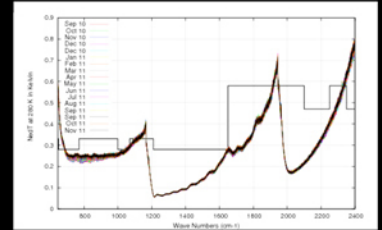
Located in CNES Toulouse Space Center  
24/7 performance monitoring of METOP-A / IASI FM2 since 2006  
Key role in the coming CAL/VAL of METOP-B / IASI PFM-R

### Spatial Distribution of Data Quality ( January 2012, Pixel 1, Spectral band 3 )



- Data quality is monitored on a daily and long term basis
- Overall product quality > 99 %
- Most anomalies located around the SAA

### Radiometric Noise long-term monitoring



- Very good stability of instrument noise
- To limit the degradation of transmission around 850 cm-1, decontamination is needed from time to time to remove ice contamination (performed 3 times on IASI-FM2 since METOP-A launch)

TELECOMMAND  
TELEMETRY

IASI L0 DATA

Monitoring and Control



Operational L1 Chain

BOARD CONFIGURATIONS  
OPERATIONAL REQUESTS  
(decontamination, calibration mode ...)

GROUND CONFIGURATIONS  
L1 SOFTWARE UPDATES

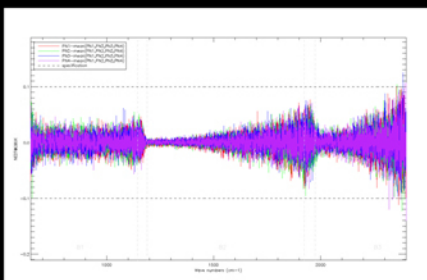
### IASI TEC role:

- Instrument monitoring
- L0 and L1 processing chains monitoring
- Generation, validation and delivery of configuration files: board and ground parameters
- L1 processing chain maintenance
- Operational requests: decontamination, calibration, raw data selection
- Intercalibration of IASI with other sounders (AIRS)
- Quarterly performance reports: [http://smc.cnes.fr/IASI/lien1\\_car\\_instr.htm](http://smc.cnes.fr/IASI/lien1_car_instr.htm)

IASI L1 DATA

IASI DATA  
L0,  
L1,  
ENGINEERING,  
VERIFICATION DATA  
35 Gb / day / instrument

### Interpixel Radiometric Calibration (January 2010)



- Interpixel calibration within specifications
- Good stability over time
- Geometric and spectral performances are also monitored



To learn more about IASI CNES activities, please refer to

- Poster 3.1 Eric PEQUIGNOT (session 3)  
IASI on MetOp-A & B : Performance Status
- Poster 7.9 Denis JOUGLET (session 7b)  
Long-term radiometric inter-comparison of IASI-A/AIRS and preparation for IASI-A / IASI-B