Presented by

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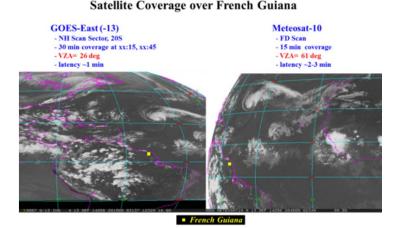


# HAIC-HIWC flight campaign Cayenne 2015

Real Time Data Set – Observation Network

### Satellites

- MSG with 15min scan
  - → EUMETSAT Agreement
- GOES-E with 30min scan



#### **PLANET Information:**

- → Enhanced IR satellite images (compressed in a very small size (< 50 Kb),
- → from data received from the French Space Weather Center (CMS Lannion) of Meteo France, with the EUMETSAT agreement.
- → Product frequency = 15 minutes.
- → Total delay between the observation and the display in the cockpit = ~20 min. (10 min [TBC] for scan and data transfer to the data center, 5 min [TBC] for data process, and 5 min for data transfer to the aircraft).

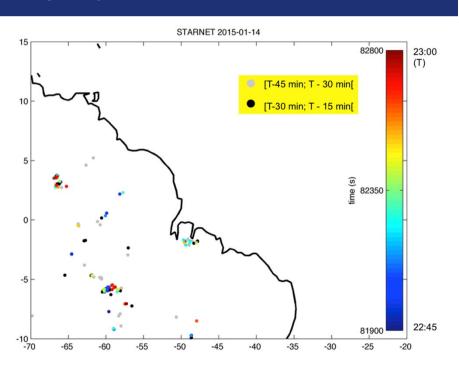


### Lightning strike

- SP3 / STARNET lightning data, range:
  1500km (<u>www.zeus.uag.usp.br</u>)
- FTP site available with daily data



- → Lightning images (compressed in a very small size (< 50 Kb),
- → From data received from the STATNET (Sferics Timing And Ranging NETwork), with the agreement of Carlos Augusto Morales Rodrigues (University of Sao Paulo), with the support of Eric Defer (LERMA).
- → Product frequency = 5 minutes.
- → Total delay between the observation and the display in the cockpit = ~5 min. (1 min [TBC] for data transfer to the data center, 2 min [TBC] for data process, and 2 min for data transfer to the aircraft).



#### Radar

- Only one ground weather radar: Grand Leblond (ROMUALD C-Band, Range: 100km for good quality dataset)
- Broken / Uncertainty on availability

#### **PLANET Information:**

- → Radar images (compressed in a very small size (< 50 Kb),
- → from data received from Meteo France (Toulouse), with the agreement of the French Space Agency (CNES).
- → Product frequency = 5 minutes.
- → Total delay between the observation and the display in the cockpit = ~10 min. (2 min [TBC] for scan and data transfer to the data center, 5 min [TBC] for data process, and 3 min for data transfer to the aircraft).



### Radio Soundings (MET-FR)

Grantley Adams	13.06N -59.48W	12UTC
Rochambeau	4.82N -52.36W	00 et 12 UTC
▶ Tirios	2.48N -55.98W	00 et 12 UTC
Macapa	0.05N -51.06W	00 et 12 UTC
▶ Belem	-1.38S -48.48W	00 et 12 UTC
Santarem	-2.43S -54.72W	00 et 12 UTC
Manaus	-3.15S -59.98W	00 et 12 UTC
Fortalezza	-3.77S -38.60W	12UTC

#### High Altitude Ice Crystals (HAIC, 314314)

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