Presented by

Alice Grandin, Airbus



HAIC-HIWC flight campaign Cayenne 2015

Forecasting and Nowcasting

- Forecasting & Nowcasting
 - MET-FR support on site:
 - HAIC official request distributed on 30/01/2015
 - Confirmation received from Meteo-France = 1 dedicated forecaster for the whole campaign
 - Other forecasters support from HIWC:
 - Boeing (OK for 3 weeks, schedule TBD),
 - Pat King (OK)
 - BOM (OK)



<u>Nowcasting</u>

KNMI High IWC Mask



Link

Nowcasting

000

third

and the sed to

Copi

Meteo-France RDT Product



March 2015

Link



<u>Nowcasting tools in PLANET</u>

Weather Polygons Object Products

- KNMI High IWC Mask
 - File size < 20 Kb (only reduced area)
 - 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, 8 min TBC for data process, and 2 min for data transfer to the aircraft).

• Meteo-France RDT

- File size < 20 Kb (only reduced area)
- Product frequency = 15 minutes.
- ► Total delay between the observation and the display in the cockpit =~ 22 min.

(10 min TBC for scan and data transfer to the data center, 10 min TBC for data process, and 2 min for data transfer to the aircraft).



Nowcasting tools in PLANET (cont'd)

Weather Polygons Object Products

- Meteo-France ASPOC 3D Product
 - File size < 20 Kb (only reduced area)
 - 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, 6 min TBC for data process, and 2 min for data transfer to the aircraft).





HAIC – High Altitude Ice Crystals (314314)

March 2015

- Forecasting
 - MET-FR support on site: Possible use of ARPEGE models for CAPE Prediction



Training on site prior to the campaign to learn how to use tools.



HAIC - High Altitude Ice Crystals (314314)

March 2015

High Altitude Ice Crystals (HAIC, 314314)

This document and the information contained are HAIC Contractors' property and shall not be copied or disclosed to any third party without HAIC Contractors' prior written authorization

Project co-funded by the European Commission within the Seventh Framework Programme (2012-2016)





HAIC – High Altitude Ice Crystals (314314)