

Presented by

F.Dezitter, Airbus



# HAIC/HIWC Science Team Meeting – 11/03/2015

HAIC/HIWC International Field Campaign – Briefing & Debriefing

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

### Day -1

Baseline	FOG	EG	FG	NG	GFGG	SOG	ASG
16:00 – 16:30	Weather briefing & Preliminary GO/NO-GO decision / Open meeting / Airport conference room						
<b>Day 0 / T0 (Take-off) = 5:30am, T1 (landing) = 09:00am</b>							
Baseline	FOG	EG	FG	NG	GFGG	SOG	ASG
01:00 – 02:00			Forecast/Nowcast				
02:00 – 02:30	Pre-flight Weather Briefing / Open meeting / Airport conference room:						
02:30 – 03:00	FOG Meeting (private) & Preliminary GO / NO-GO						
02:45 / 03:15	Wake-up pilot and flight crew (03:15)				Wake-up GFGG (03:15)		Wake-up mechanics (02:45)
04:00 – 04:30	Pilot Briefing / Private meeting / A/C base: Final GO / NO-GO & Flight plan submission						A/C preparation
04:00 – 05:30	A/C prep & check list		Go to Control room & monitoring		Go to Ctrl room & monitoring		
04:45	Crew Briefing & Flight crew onboard aircraft – start APU, preflight takeoff checks						
T0 / 05:30	A/C Departure / Team Briefing at Airport Conf room						

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# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

- **Day -1: Weather Briefing**

- ▶ Public meeting
- ▶ Location: Airport Conference room
- ▶ Chairman: Forecaster
- ▶ Objectives: forecast for the next day and preliminary GO/NO-GO decision
  
- ▶ Open points
  - Staffing and availability
  - Schedule between MET-FR, Boeing, BOM and Pat King
  - IT in the Airport conference room and access to MET products

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

Day -1							
Baseline	FOG	EG	FG	NG	GFGG	SOG	ASG
16:00 – 16:30	Weather briefing & Preliminary GO/NO-GO decision / Open meeting / Airport conference room						
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# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

- **Day 0: Pre-flight Weather Briefing**

- ▶ Public meeting
- ▶ Location: Airport Conference room
- ▶ Chairman: Forecaster
- ▶ Objectives: forecast confirmation and recommendations (target, timing,...)
  
- ▶ Open points
  - Staffing and availability
  - Schedule between MET-FR, Boeing, BOM and Pat King
  - IT in the Airport conference room and access to MET products

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

### Day -1

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# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

- **Day 0: Flight Operation Group Meeting**

- ▶ Private meeting
- ▶ Location: Airport Conference room or other?
- ▶ Chairman: PI HAIC/HIWC
- ▶ Objectives: Preliminary GO/NO-GO Decision and definition of target(s), timing, wake-up mechanics and pilots, announcement
  
- ▶ Note
  - A/C coordinators to attend
  - SAFIRE Falcon 20 to be the lead aircraft in the decision making process (regulatory objectives)
  
- ▶ Open points
  - Meeting room

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

Day -1							
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16:00 – 16:30	Weather briefing & Preliminary GO/NO-GO decision / Open meeting / Airport conference room						
Day 0 / T0 (Take-off) = 5:30am, T1 (landing) = 09:00am							
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# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

- **Day 0: Pilot Briefing**

- ▶ Private meeting
- ▶ Location: A/C base (Airport Conference room ?)
- ▶ Chairman: PI HAIC/HIWC
- ▶ Objectives: Pilot briefing, Final GO/NO-GO Decision and flight plan
  
- ▶ Open points
  - Meeting room

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

Day -1							
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Day 0 / T0 (Take-off) = 5:30am, T1 (landing) = 09:00am							
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# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

- **Day 0: Crew Briefing**

- ▶ Private meeting
- ▶ Location: A/C base or A/C
- ▶ Chairman: Pilots
- ▶ Objectives: Crew briefing
  
- ▶ Open points
  - None

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

Day 0 / T0 (Take-off) = 5:30am, T1 (landing) = 09:00am							
Baseline	FOG	EG	FG	NG	GFGG	SOG	ASG
T1 / 09:00am	A/C Arrival						
T1 +1hr / 10:00 – 11:30	Flight Debriefing / Open meeting / Airport conference room						
11:30 – 13:30	Rest Time						
13:30 – 16:00	Rest time	Rest time	Forecast/Nowcast		Rest time	Processing of data	A/C and Inst. maint.
16:00 – 16:30	Weather briefing & Preliminary GO/NO-GO decision / Open meeting / Airport conference room						
Day +1							
Baseline	FOG	EG	FG	NG	GFGG	SOG	ASG
Same schedule than Day 0							

In case of a 2<sup>nd</sup> flight in the afternoon, DG/NG and GFGG to monitor conditions for a TO around 2pm (afternoon peak of activity : 14:00 – 17:00). In this case, Flight debriefing should be postponed to the day after.

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing



Microsoft Excel  
Worksheet

- **Day 0: Flight Debriefing**

- ▶ Open meeting
- ▶ Location: Airport Conference Room
- ▶ Chairman: PI HAIC/HIWC
- ▶ Objectives: operations and science debriefing in accordance with process defined during Darwin 2014
  
- ▶ Operations Debriefing for each A/C
  - A/C status
  - Instrumentation status
  - Communication status (PLATNET, SATCOM)
  - Crew rest status & Next flight
  - Comments and Actions

# HAIC/HIWC Science Team Meeting

## Daily Operation & Briefing/Debriefing

### ▶ Science Debriefing

#### – Review of flight with flight crews

- Number of legs
- Observation of High IWC (Water streaming, St Elmo fire, turbulence, erosion,...)
- Any limitations (weather too severe, traffic,...)
- Way to improve and final comments from the pilots

#### – Scientific discussion

- Description of the flight by the PI HAIC/HIWC
- Timing to target, cloud evolution
- Effectiveness of communications and guidance from ground team
- Scientific interpretation of cloud environment
- Discussion

## High Altitude Ice Crystals (HAIC, 314314)

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