

Presented by

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

HAIC/HIWC International Field Campaign – Decision Making Process

# HAIC/HIWC Science Team Meeting

## Objectives

- The **HAIC/HIWC international field campaign** is the result of an international collaboration in between HAIC and HIWC. As such a large number of people and skills all over the world are involved in the preparation of the campaign and in its daily operation. It is then important that a clearly defined management structure is in place so that there is a protocol for decision making.
- The **Decision Making Process** is designed to reach the following objectives:
  - ▶ Coordinate and manage the field campaign
  - ▶ Ensure timely and qualitative achievement of the field campaign objectives, including risk mitigation, recovery plans and quality control
  - ▶ Provide decision making mechanisms
- The **Decision Making Process** is also designed to ensure **simple, efficient and quick decision making**.
- To achieve these objectives, several groups with clear **role and responsibilities** were defined (based on W.Strapp proposal)

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## Groups

- **Executive Committee (EC):** The EC is the highest decision making body and is co-chaired by PI HIWC and PI HAIC. The Executive Committee does not have the day to day operational responsibility of the campaign. Its role is to assess the progress wrt to the objectives of the campaign, approve any major change in the objectives or orientations of the campaign and solve any conflict necessitating to be escalated at a higher level. The EC meets on a weekly basis or on demand if any.
- **Flight Operations Group (FOG):** The FOG is the highest operational decision making body during the campaign. It is chaired by the PI HAIC, PI HIWC. It approves and implements flight objectives. It is constituted of EG representative(s), PI HAIC, PI HIWC, A/C Flight Director, Ground Flight Director, F20/CONVAIR/B757 coordinators.
- **Flight Crew Group (FCG):** The FCG gathers potential fliers on the SAFIRE Falcon 20, NRC CONVAIR 580 and HWL B757
- **Executive Group (EG):** overall responsibility for ensuring the EHWG objectives are met

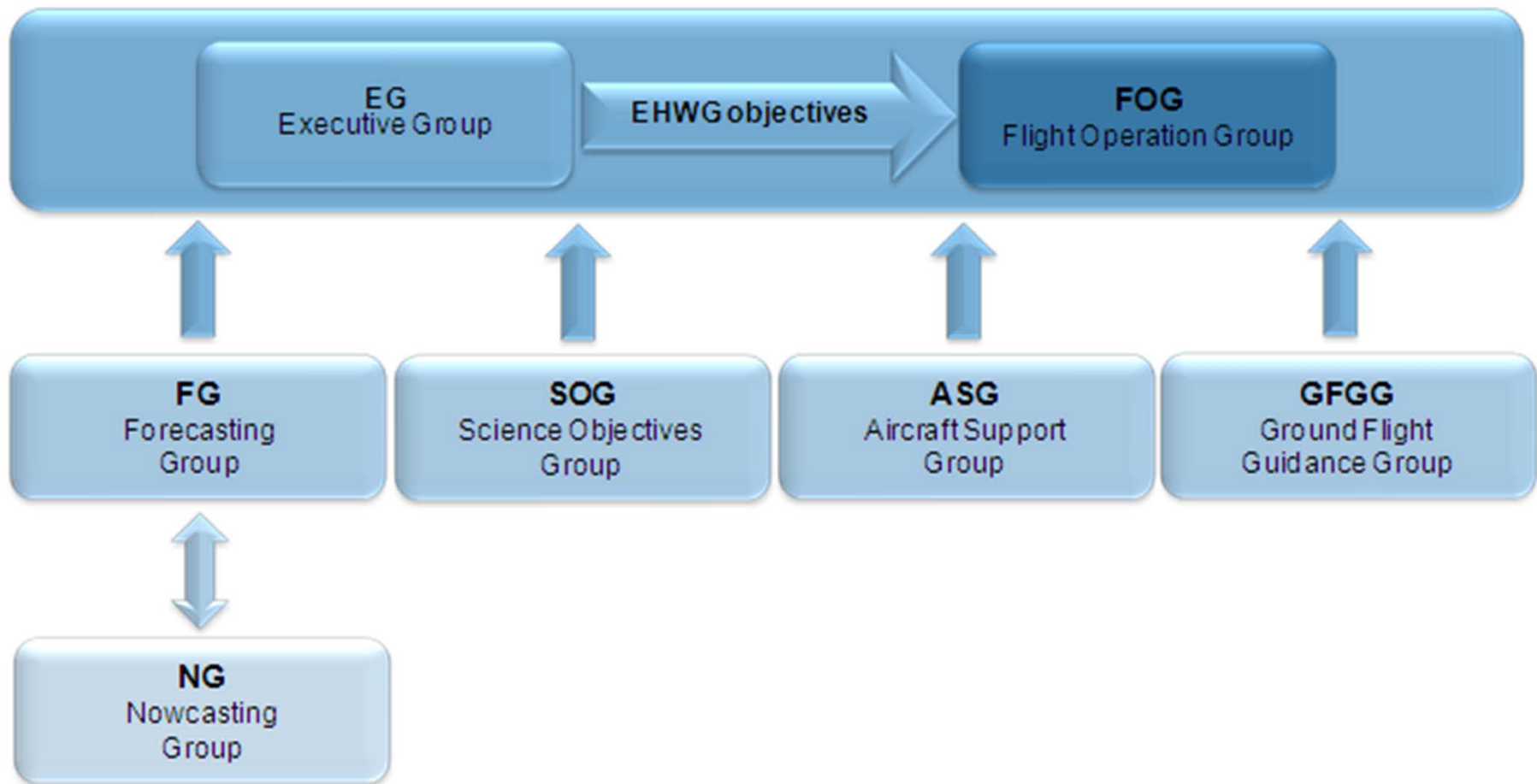
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## Groups

- **Science Objectives Group (SOG):** suggests science objectives to the FOG
- **Forecasting Group (FG):** provides longer term forecasts for guidance and next-day outlooks
- **Nowcasting Group (NG):** provide support to forecasting group for longer term forecasts, but more importantly flight-day support for aircrafts operations
- **Ground Flight Guidance Group (GFGG):** Provides guidance during flights as to next possible target areas, escape directions, diversion destinations, etc. Also provide scientific guidance on general situation
- **Aircraft Support Group (ASG):** Persons working on the aircrafts making sure the aircrafts and instruments are ready to go

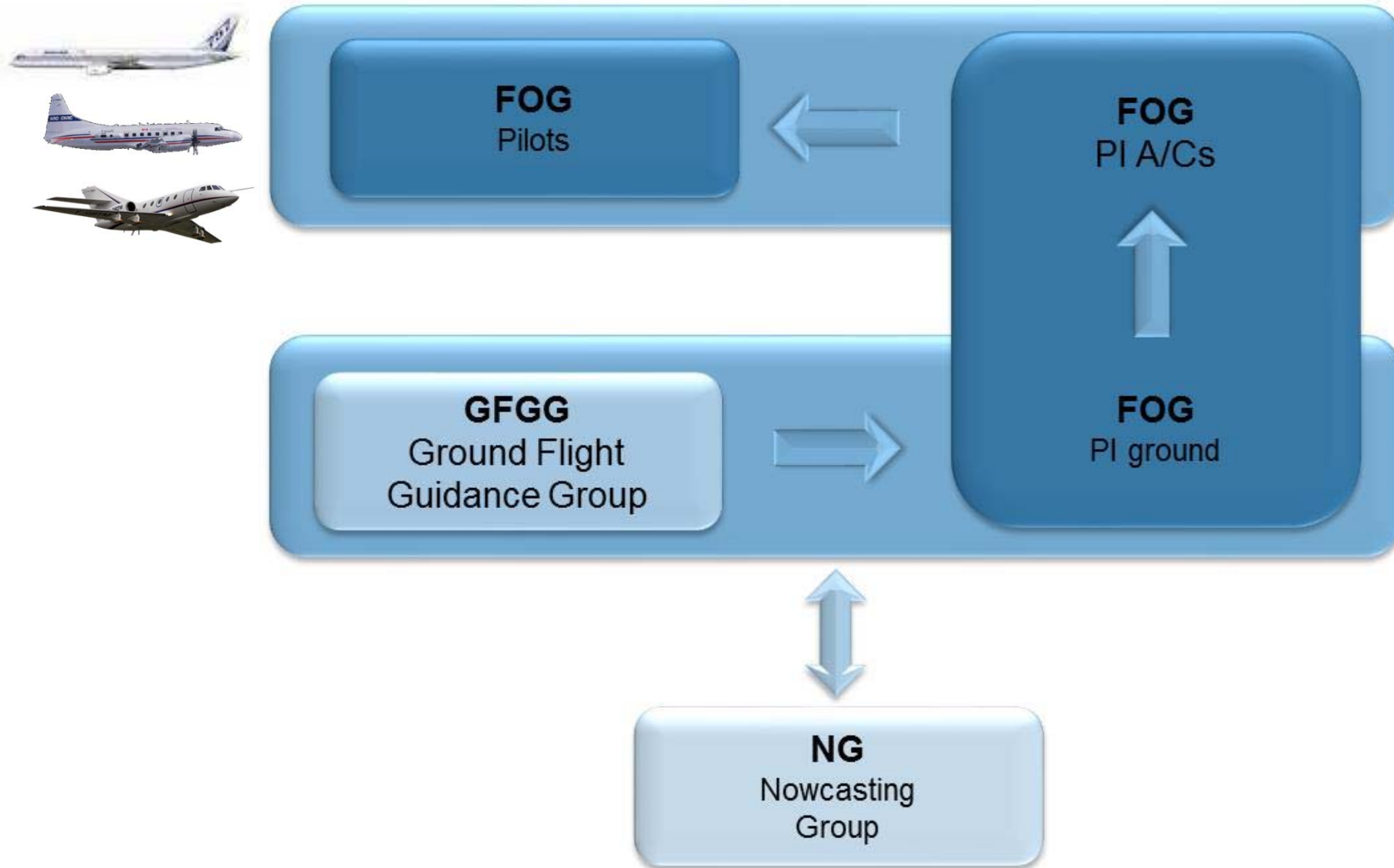
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## Pre-flight Decision making process



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## In-flight Decision making process



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## Conclusion & Way Forward

- Same Decision making process as during Darwin 2014 is proposed
- It is recalled that primary objective/priority remains to provide the **99th percentile total water content statistics, as a function of distance scale**, to industry and regulators. FL-50°C is the first priority.
- Thus, **SAFIRE F20 shall be the lead aircraft** in the decision making process (target definition, timing,...)

High Altitude Ice Crystals (HAIC, 314314)

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

