

NAWDEX 2016 - Planning summary

Falcon and HALO are flying today. One small adjustment has been made to the HALO flight plan.

FALCON: Flight pattern as decided yesterday.

HALO: Easternmost point (P4) moved toward the north to keep leg P4-P5 in inflow region.

The responsible persons for this mission are

- o Scientific Manager: George Craig
- o Chief Forecaster: Christian Grams
- o Instrument Manager: Manuel Gutleben
- o Coordinator Ground-Based Observations: Ben Harvey
- o Mission Scientists: Florian Pantillon (HALO), Oliver Reitebuch (FALCON), Julian Quinting (Ground support)

The schedule for the current day is a weather discussion at 16 UTC.

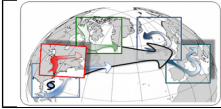
The main topic of the General meeting was the HALO flight planned for Friday, September 23st, coordinated with FAAM . The following points were raised in the discussion:

Friday mission:

- A HALO flight is planned to explore the ascent region of the strong WCB and associated ridge building to the North- East of the British Isles. The earlier part of the flight will be at lower flight levels (FL280) to allow dropsondes under the NA-Tracks, then ascending to higher altitudes (FL450) for coordination with FAAM and to sample the outflow region during the return to Keflavik. Coordination with FAAM will occur on the leg P4-P5. The long flight to the south that was presented yesterday has been changed since forecasts show that the inflow region is too far south to be observed.
- Martin Hagen commented that FL450 might be too high for radar measurements to reach to the surface (depending on pitch) and suggests FL430 might be preferable.
- Frank Probst does not expect the length of the flight to be a problem, even with the long distance at FL280.
- The shape of the NOTAM box was discussed, and a good solution could be an L-shape to include the legs P1-P2-P3.

The responsible persons for this mission are

- o Scientific Manager: Heini Wernli



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Date: Sept. 21, 2016
Author: G. Craig, M. Bramberger

- o Chief Forecaster: Hanin Binder
- o Instrument Manager: Manuel Gutleben
- o Coordinator Ground-Based Observations: Ben Harvey
- o Mission Scientists: Lotte Bierdel (HALO), Oliver Reitebuch (FALCON), Marlene Baumgart (Ground support)

Saturday and next week:

Options to be considered in the weather discussion this afternoon are:

1. Flights on Saturday with Falcon and/or HALO to sample the upper-level outflow of the WCB inflow captured on Friday. Capturing this outflow is of great interest since the associated low-level inflow has been measured on Friday.
2. Flights on Monday to measure the outflow of the cyclone downstream of TC Karl. This is a very strong ascent, but may not be in range of the aircraft.

Further points from the discussion:

- At the moment the weather forecast is very uncertain.
- Depending on these plans, a rest day may be announced for either Saturday or Sunday.