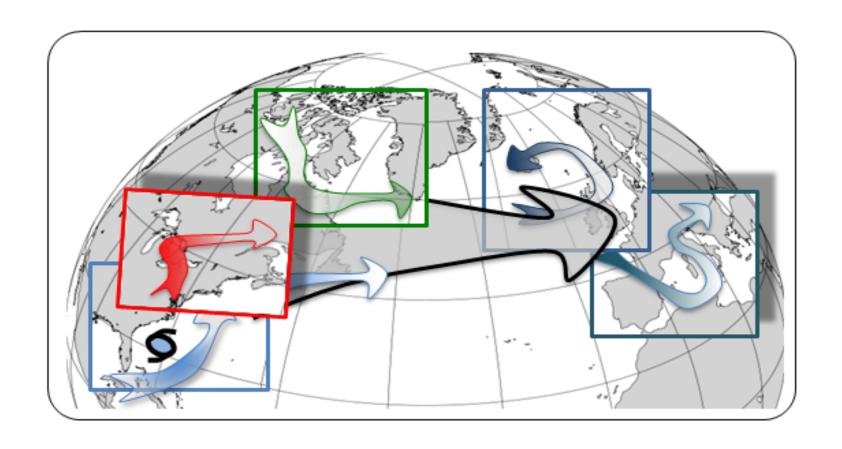
NAWDEX – General Planning Meeting

22 September 2016, Keflavik 11 UTC



NAWDEX – General Planning Meeting

22 September 2016, Keflavik 11 UTC

Key issues today

- 1. Plan for coordinated flights of FAAM, HALO and Falcon for flight on Friday.
- 2. Day off on Saturday.
- 3. Outlook: Flights early next week.
- 4. Quicklook meeting today at 16.30 UTC.

NAWDEX – General Planning Meeting

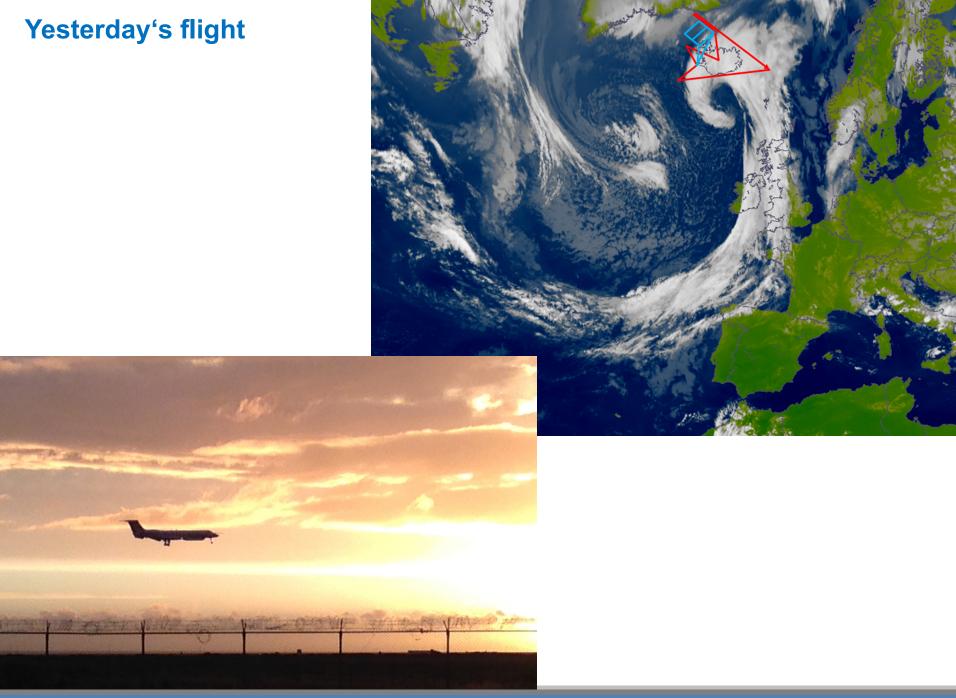
22 September 2016, Keflavik 11 UTC

- 1. Key information from previous flight (2 minutes)
- 2. Aircraft status report by FX-Operations
- 3. Instrument status report by Instrument Manager
- 4. Short weather summary
- 5. Final discussion about flight pattern for next day
- 6. Report of Ground-Based Observation coordinator
- 7. Announcement of tentative plans for Day+3
- 8. Coordination with other aircraft (Input from other groups)

NAWDEX – General Planning Meeting WEATHER summary

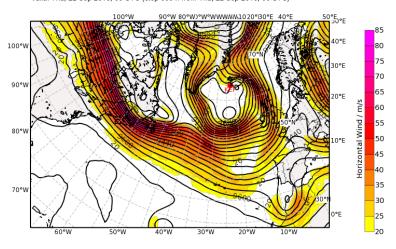
22 September 2016, Keflavik 11 UTC

- Yesterday's mission
- Current situation & evolution until Monday 26 September
- Mission Friday 23 September
- Potential mission Monday-Wednesday

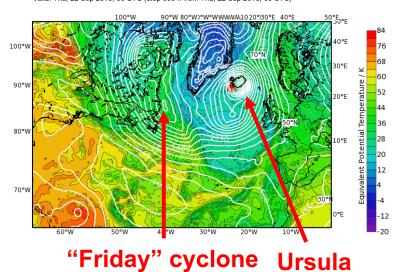


Analysis – 22 Sep 2016, 00 UTC

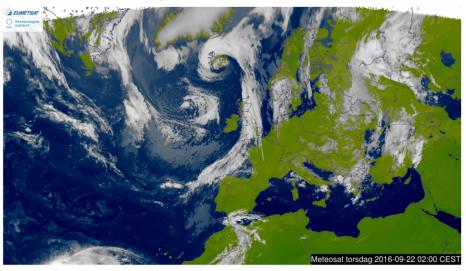
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Thu, 22 Sep 2016, 00 UTC (step 000 h from Thu, 22 Sep 2016, 00 UTC)



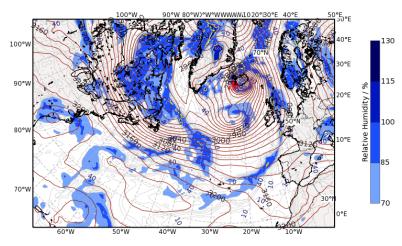
Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Thu, 22 Sep 2016, 00 UTC (step 000 h from Thu, 22 Sep 2016, 00 UTC)

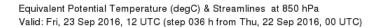


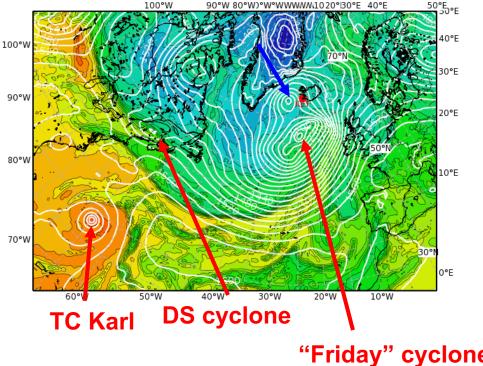
Z300, SAT THE850, RH700



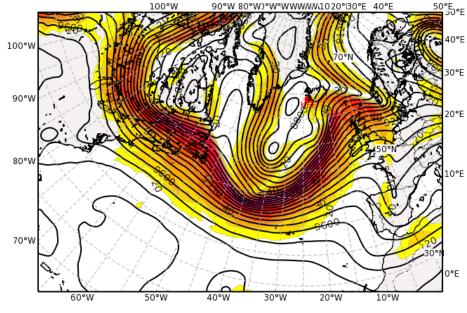
Relative Humidity (%) and Z (m) at 700 hPa Valid: Thu, 22 Sep 2016, 00 UTC (step 000 h from Thu, 22 Sep 2016, 00 UTC)

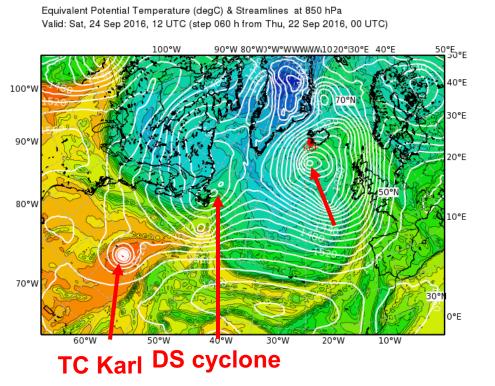




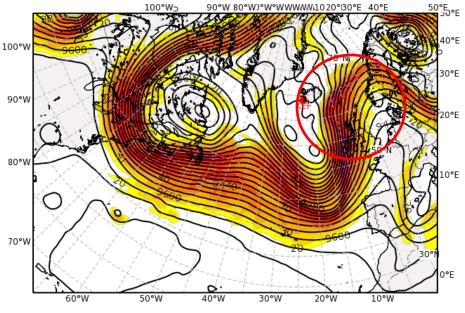


Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Fri, 23 Sep 2016, 12 UTC (step 036 h from Thu, 22 Sep 2016, 00 UTC)

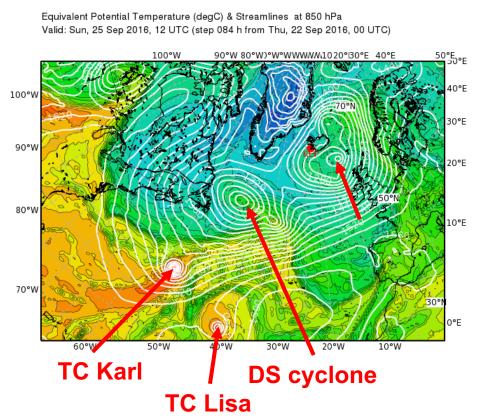




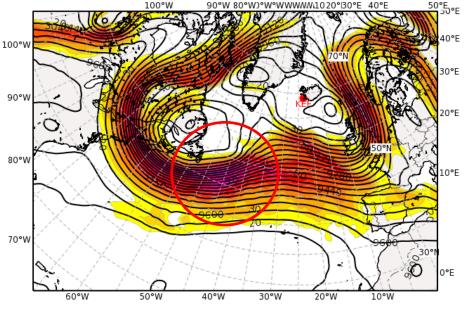
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Sat, 24 Sep 2016, 12 UTC (step 060 h from Thu, 22 Sep 2016, 00 UTC)



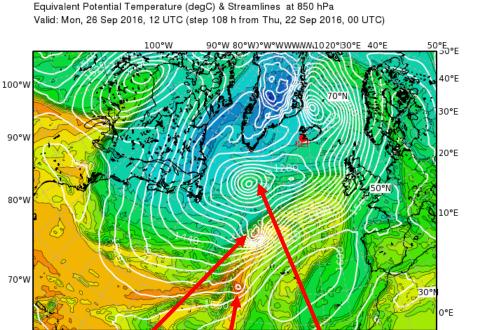
Heavy precipitation & windy conditions in UK and Ireland



Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Sun, 25 Sep 2016, 12 UTC (step 084 h from Thu, 22 Sep 2016, 00 UTC)

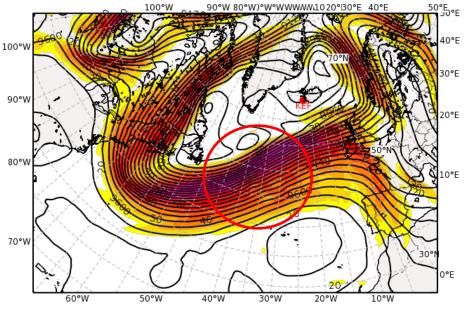


Heavy precipitation & windy conditions in UK and Ireland



TC Lisa

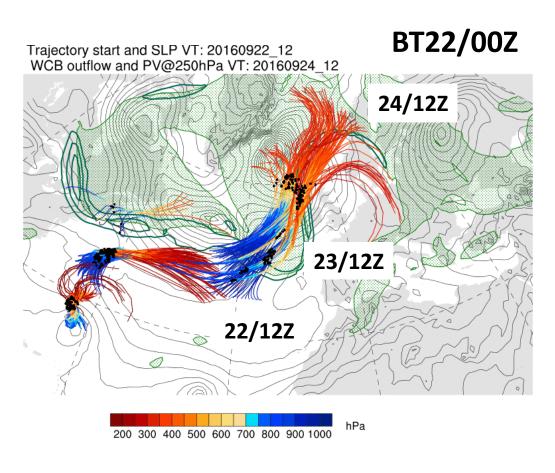
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Mon, 26 Sep 2016, 12 UTC (step 108 h from Thu, 22 Sep 2016, 00 UTC)

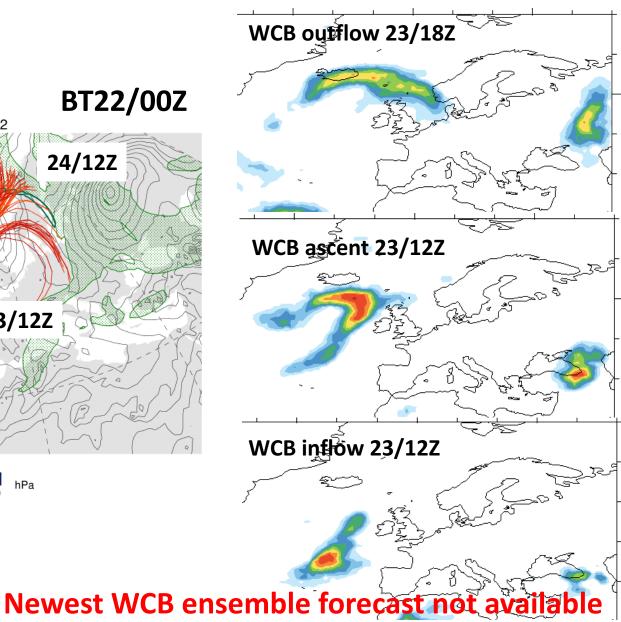


Heavy precipitation & windy conditions in UK and Ireland

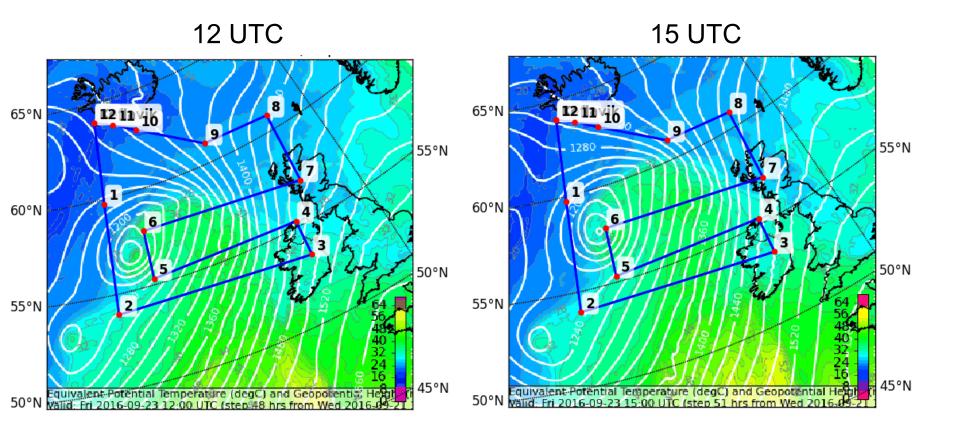
DS cyclone

TC Karl



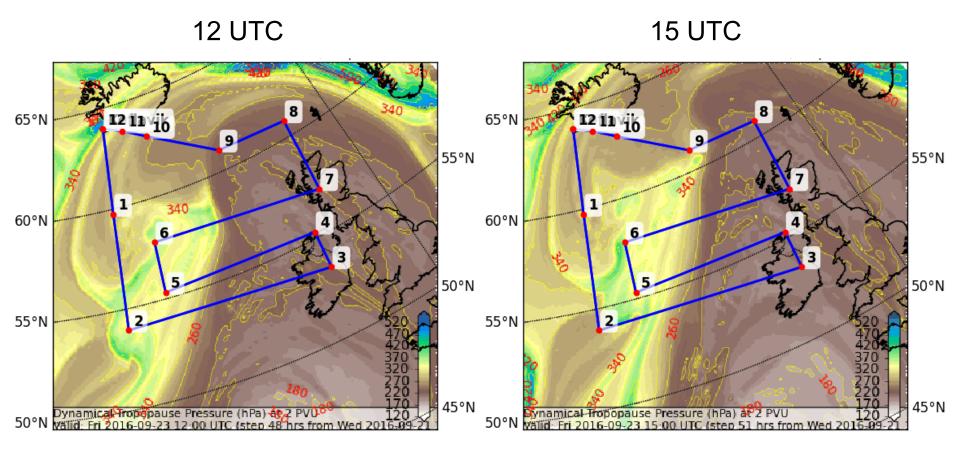


Flight planning for Friday, 23 September 2016: HALO



- Coordinated flight with FAAM leg 4-5
 → FAAM flies several legs at 8-13°W from 12-15 UTC
- Coordinated flight with FALCON leg 9-12 in early afternoon

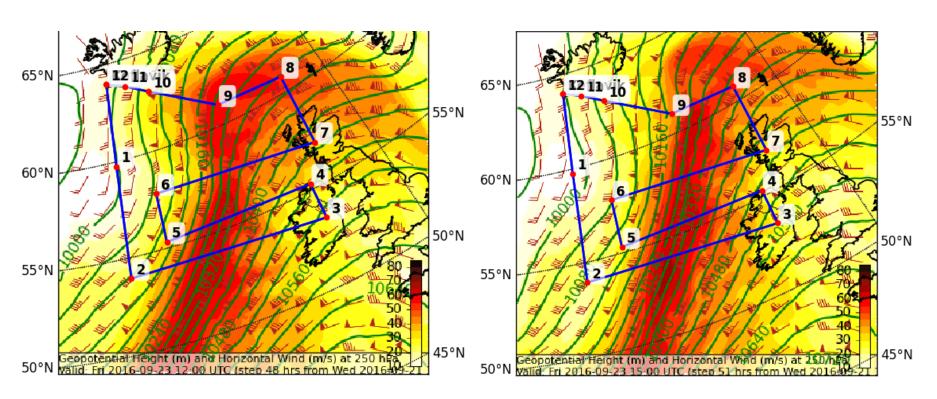
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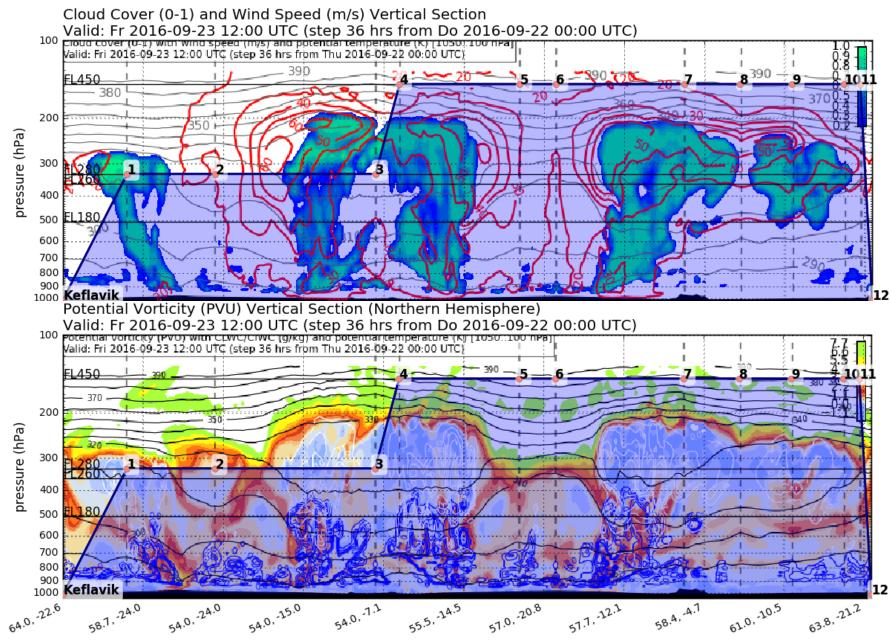
Flight planning for Friday, 23 September 2016: HALO

12 UTC 15 UTC

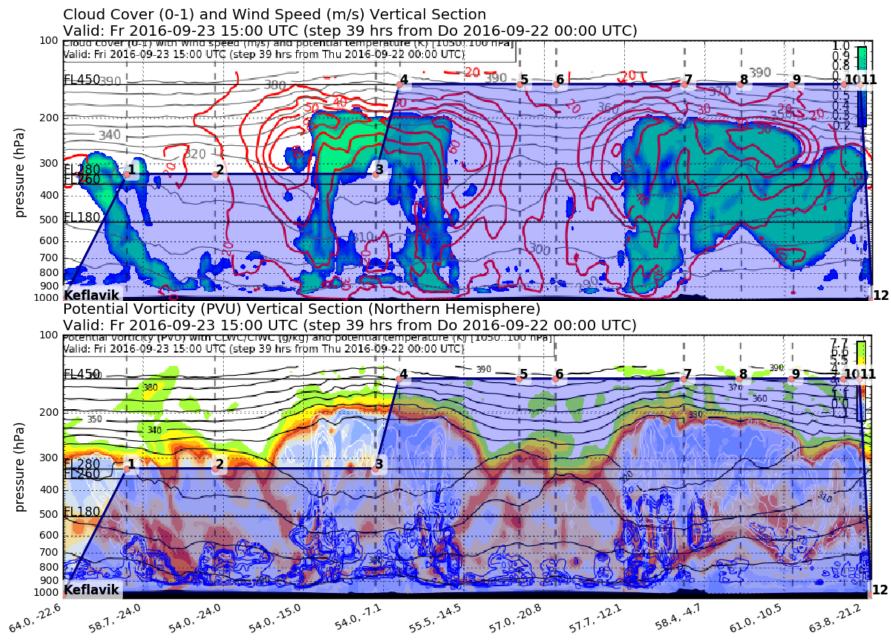


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Flight planning for Friday, 23 September 2016 12 UTC: HALO

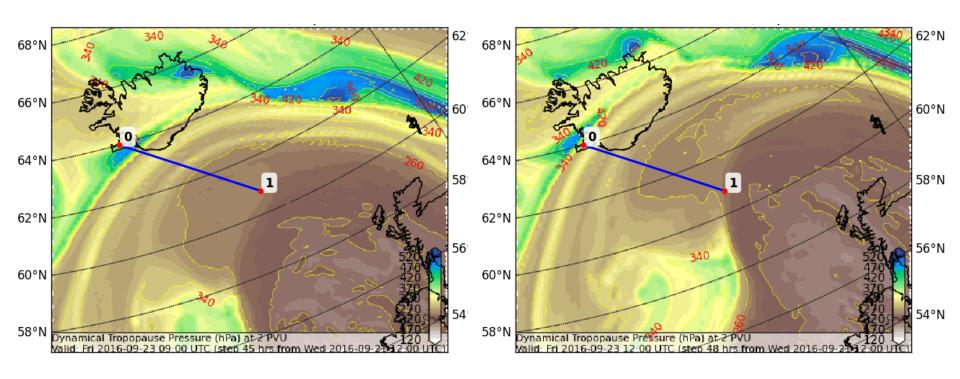


Flight planning for Friday, 23 September 2016 15 UTC: HALO

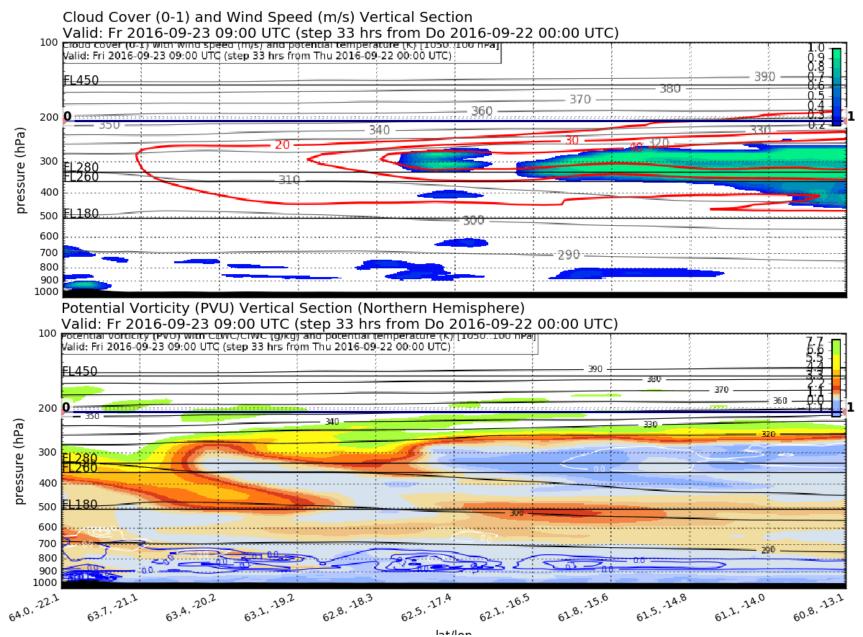


Flight planning for Friday, 23 September 2016: FALCON

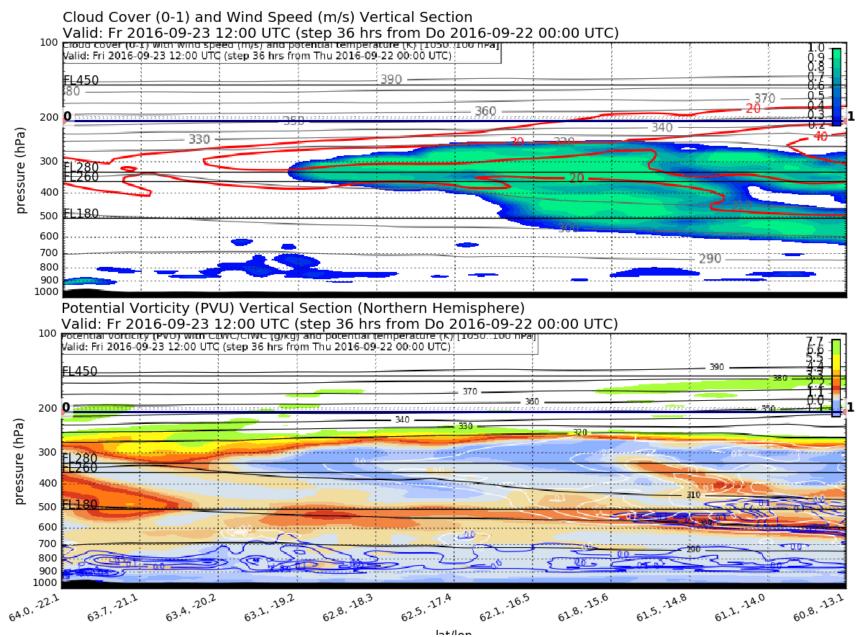
09 UTC 12 UTC



Flight planning for Friday, 23 September 2016 09 UTC: FALCON



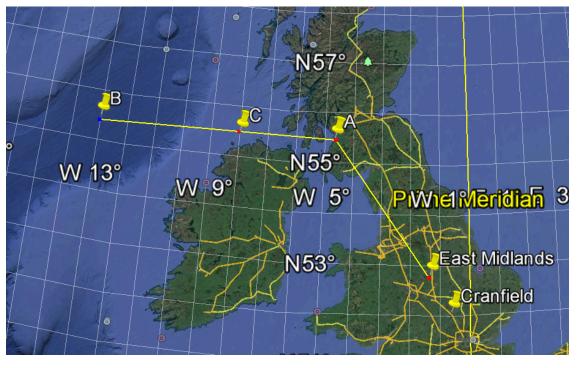
Flight planning for Friday, 23 September 2016 12 UTC: FALCON



Proposed FAAM flight

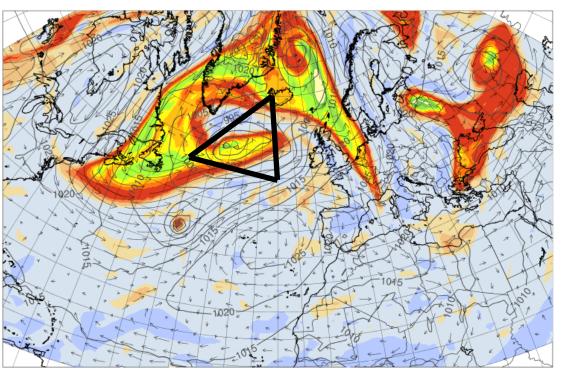
4 transects along 55.5N between 8W (C) and 13W (B)

Times:C at 1210 UTC
B at 1256 UTC
C at 1340 UTC
B at 1423 UTC
C at 1510 UTC



Outlook for Monday, 26 September





-0.5 0.2 0.7 1 1.5 2 4 5 6 7 8 9 10

- Monday looks promising
- Preliminary flight plan on Friday
- Detailed flight plan needed on Sunday
- Mission scientists:
 George and Volkmar

Summary plans

- Next mission tomorrow, Friday 23 September: HALO
 measurements of WCB ascent in NOTAM region, dropsondes,
 meet UK FAAM BAE 146 west of Ireland
 - FALCON measurements of jet structure
- Saturday day off
- Outlook Monday
 — Wednesday :
 - 2 Systems: DS cyclone and TC Karl, strong WCB activity
 - Most likely missions on Monday and Tuesday