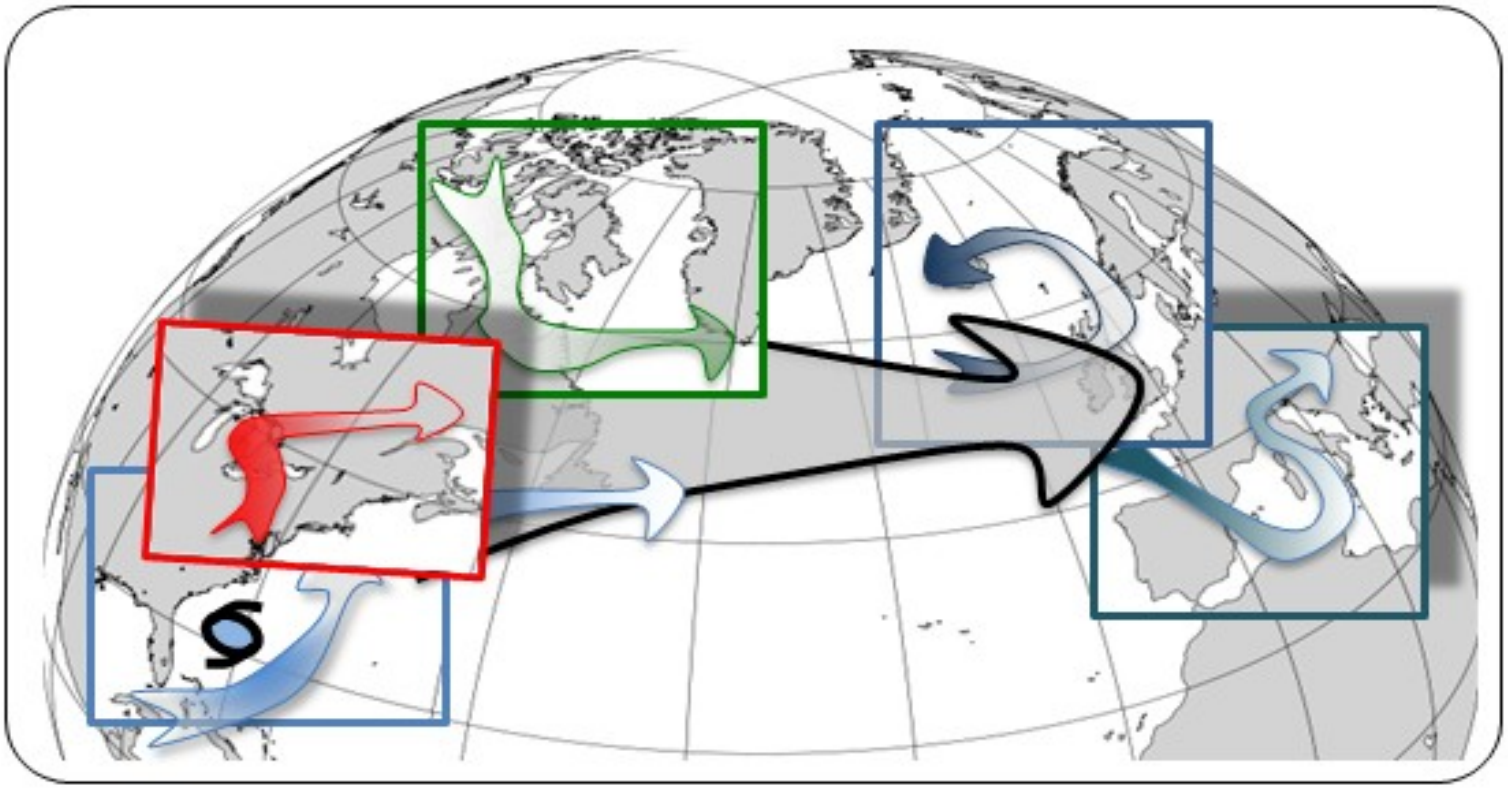
NAWDEX – General Planning Meeting

21 September 2016, Keflavik 11 UTC



NAWDEX – General Planning Meeting

21 September 2016, Keflavik 11 UTC

Key issues today

1. Flight plan for today
2. Preliminary plan for coordinated flights UK FAAM BAE 146 and HALO for Friday

NAWDEX – General Planning Meeting

21 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: information about flight options for the next days and update for planning for the next day with the latest forecast
5. Final discussion about flight pattern for next day (in case of 2 options)
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

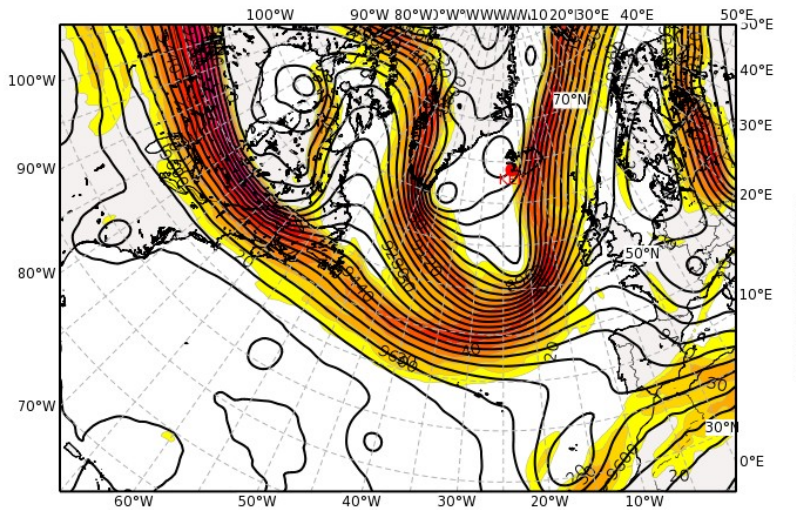
21 September 2016, Keflavik 11 UTC

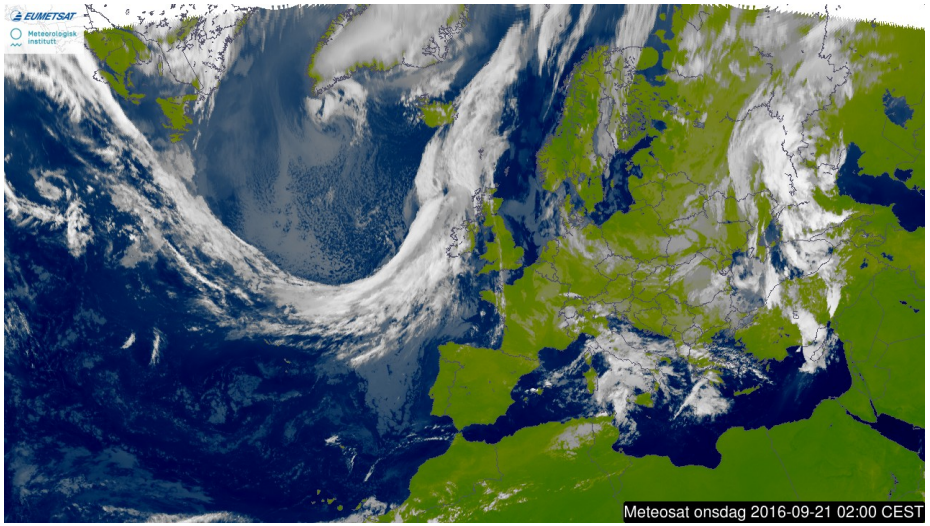
- Current situation & evolution until Monday 26 September
- **Today‘s mission**
- **Mission Friday 23 (Saturday 24?) September**
- Potential mission Monday-Wednesday

Analysis – 21 Sep 2016, 00 UTC

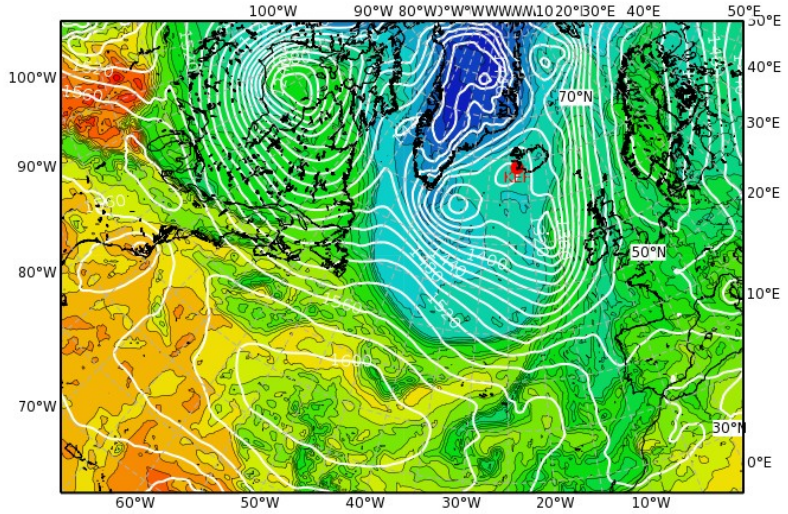
Z300, SAT
THE850, RH700

Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa
Valid: Wed, 21 Sep 2016, 00 UTC (step 000 h from Wed, 21 Sep 2016, 00 UTC)

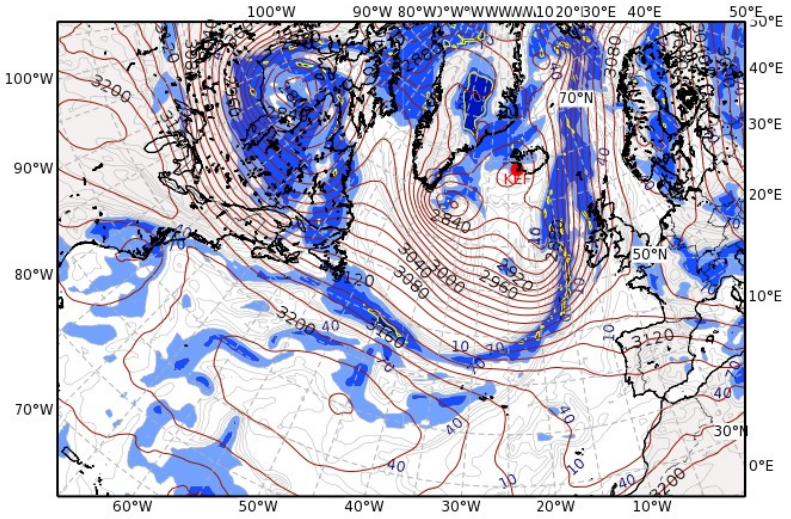




Equivalent Potential Temperature (degC) & Streamlines at 850 hPa
Valid: Wed, 21 Sep 2016, 00 UTC (step 000 h from Wed, 21 Sep 2016, 00 UTC)



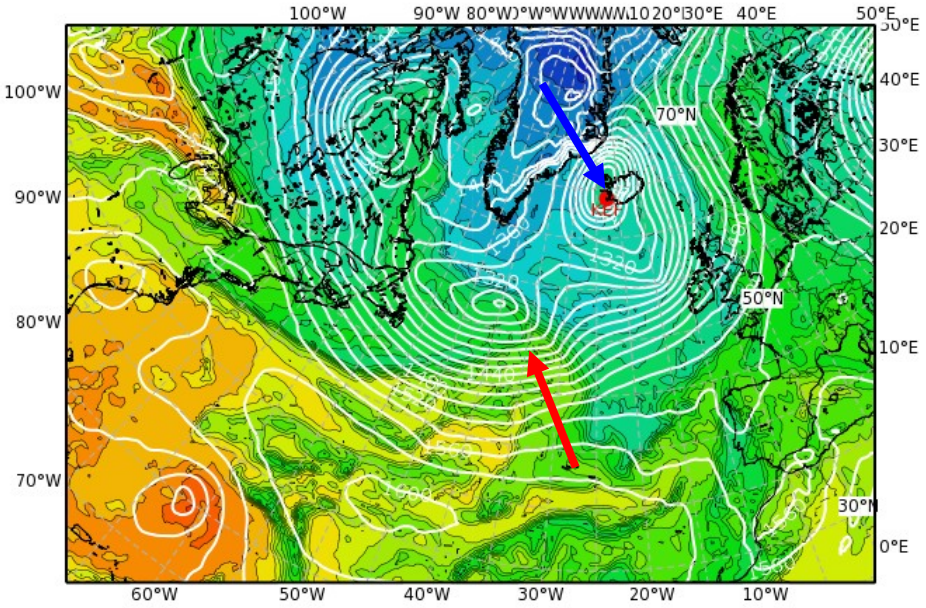
Relative Humidity (%) and Z (m) at 700 hPa
Valid: Wed, 21 Sep 2016, 00 UTC (step 000 h from Wed, 21 Sep 2016, 00 UTC)



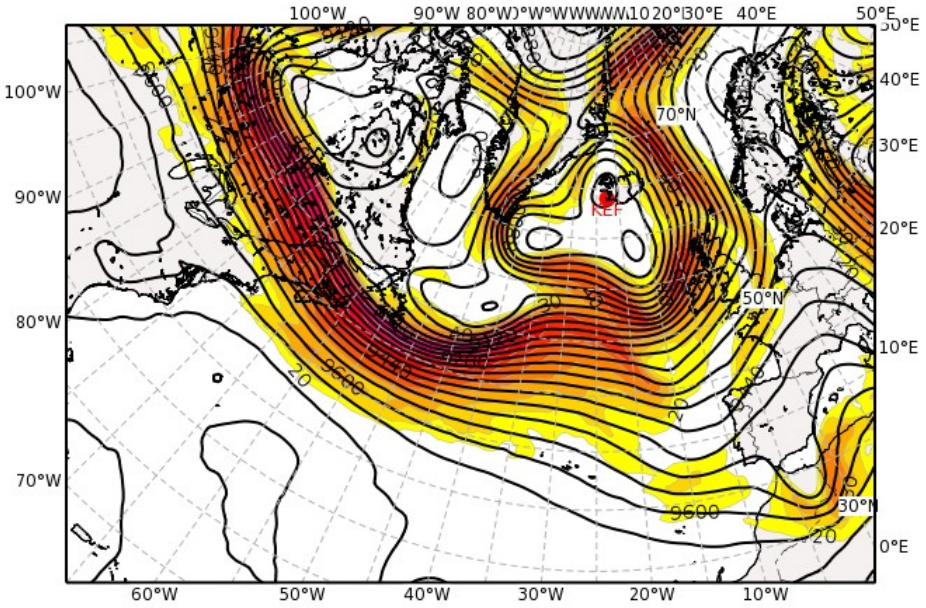
Forecast for Thu, 22 Sep 2016 12 UTC

THE850, Z300 **BT21/00Z**

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa
Valid: Thu, 22 Sep 2016, 12 UTC (step 036 h from Wed, 21 Sep 2016, 00 UTC)

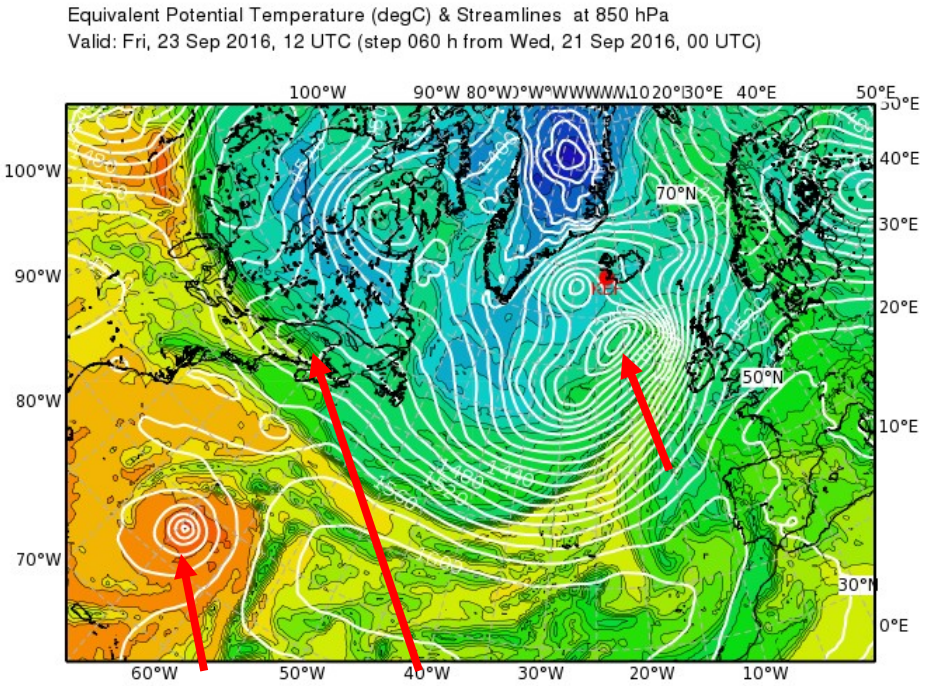


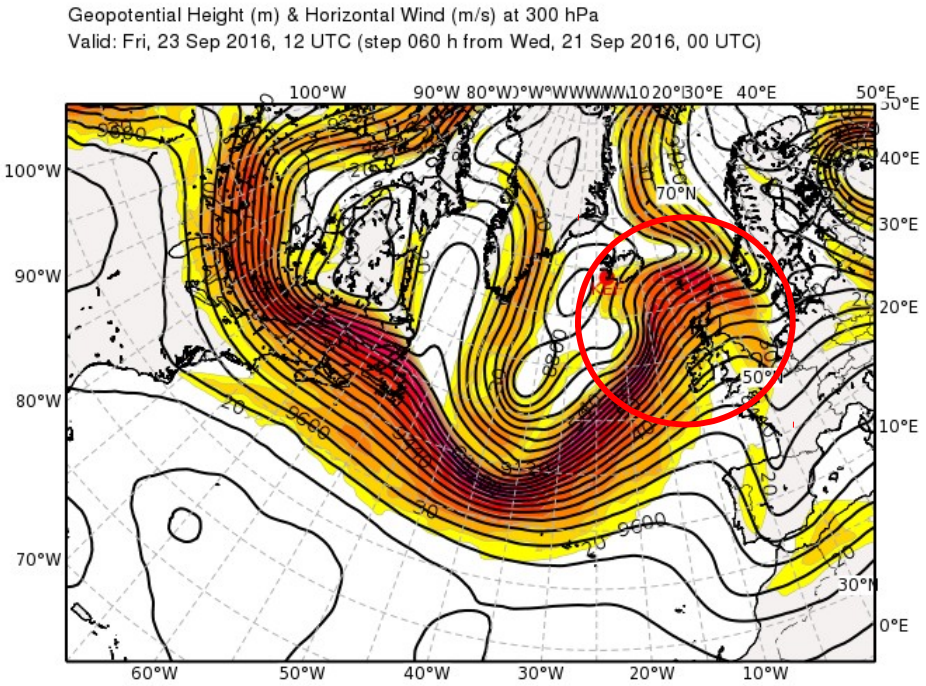
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa
Valid: Thu, 22 Sep 2016, 12 UTC (step 036 h from Wed, 21 Sep 2016, 00 UTC)



Forecast for Fri, 23 Sep 2016 12 UTC

THE850, Z300 **BT21/00Z**

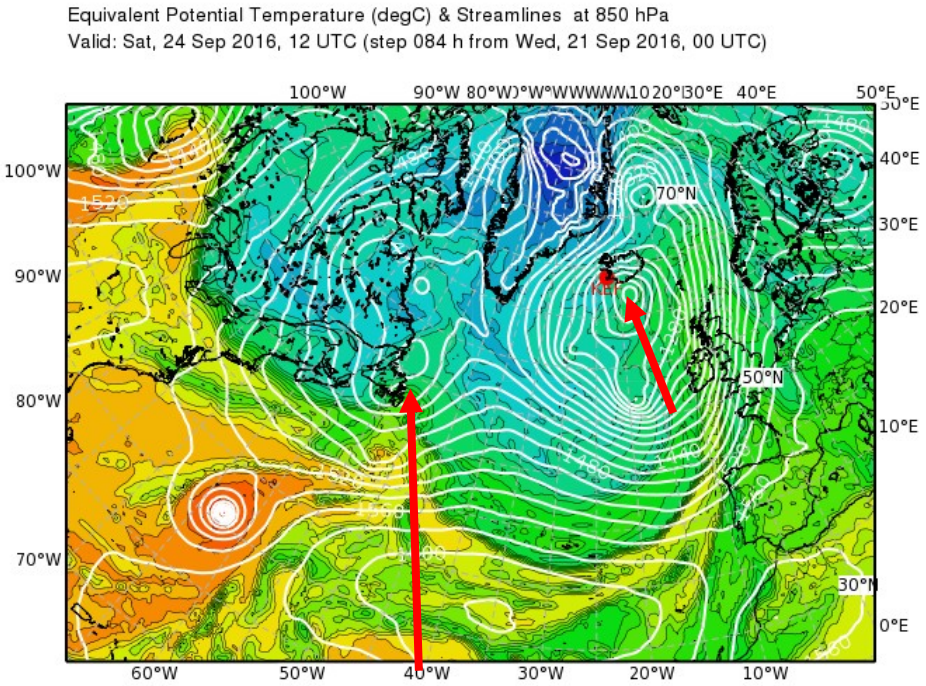


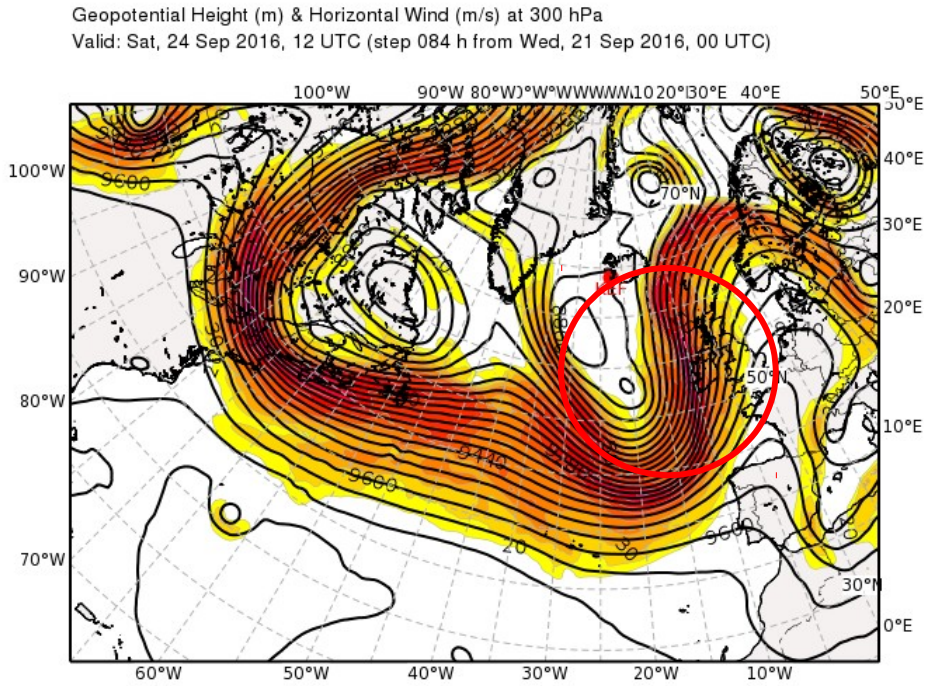


TC Karl **DS cyclone**

Forecast for Sat, 24 Sep 2016 12 UTC

THE850, Z300 **BT21/00Z**

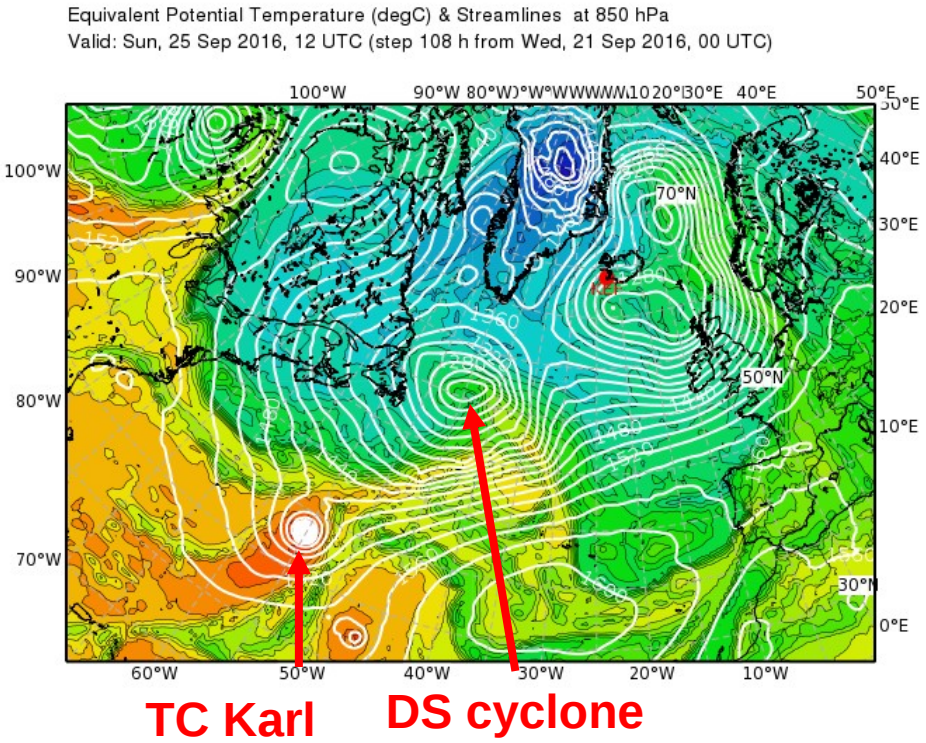


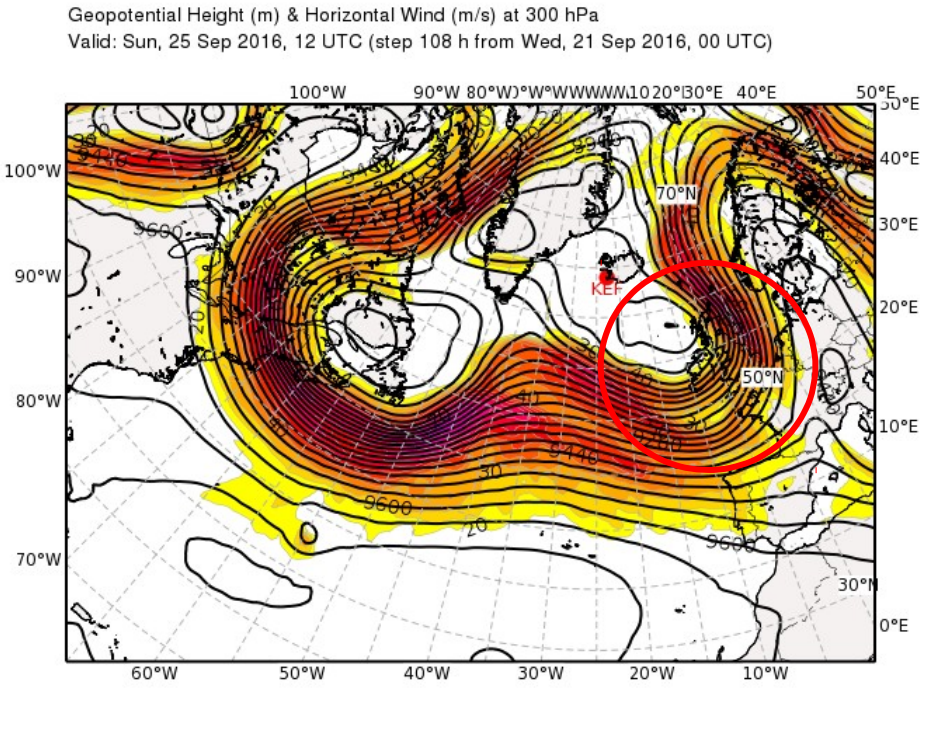


- Heavy precipitation & windy conditions in UK and Ireland

Forecast for Sun, 25 Sep 2016 12 UTC

THE850, Z300 **BT21/00Z**

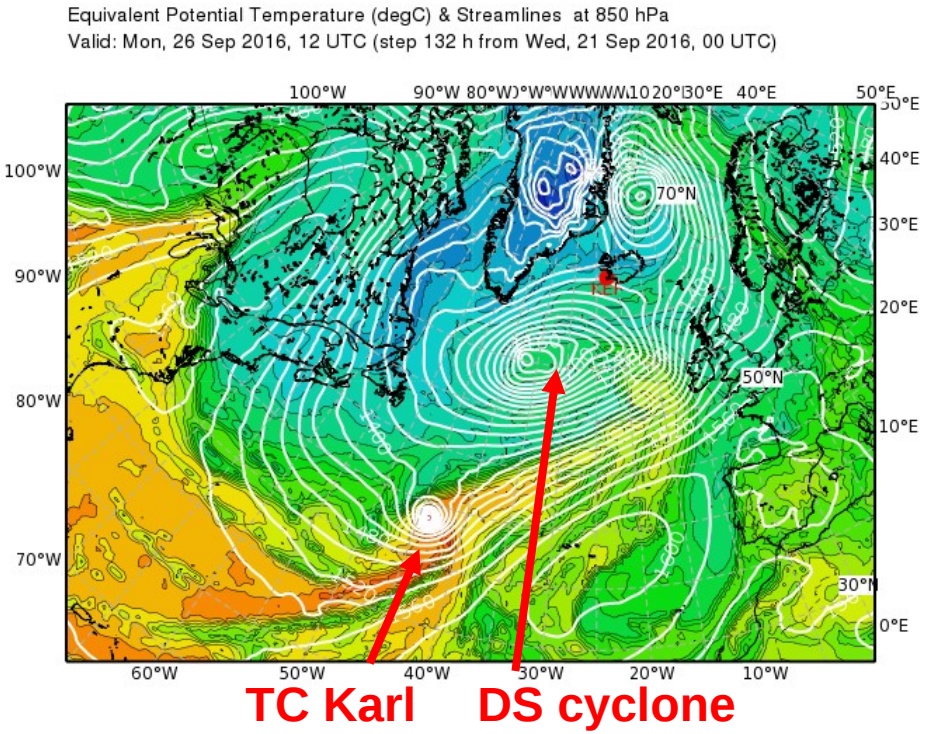


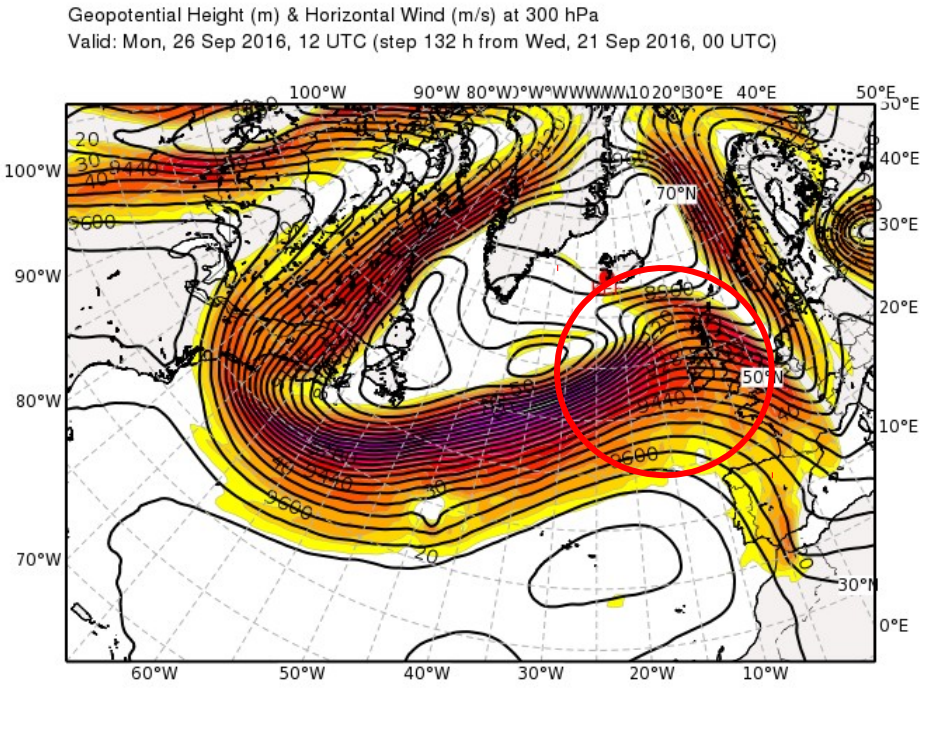


- Heavy precipitation & windy conditions in Norway coastal regions

Forecast for Mon, 26 Sep 2016 12 UTC

THE850, Z300 **BT21/00Z**

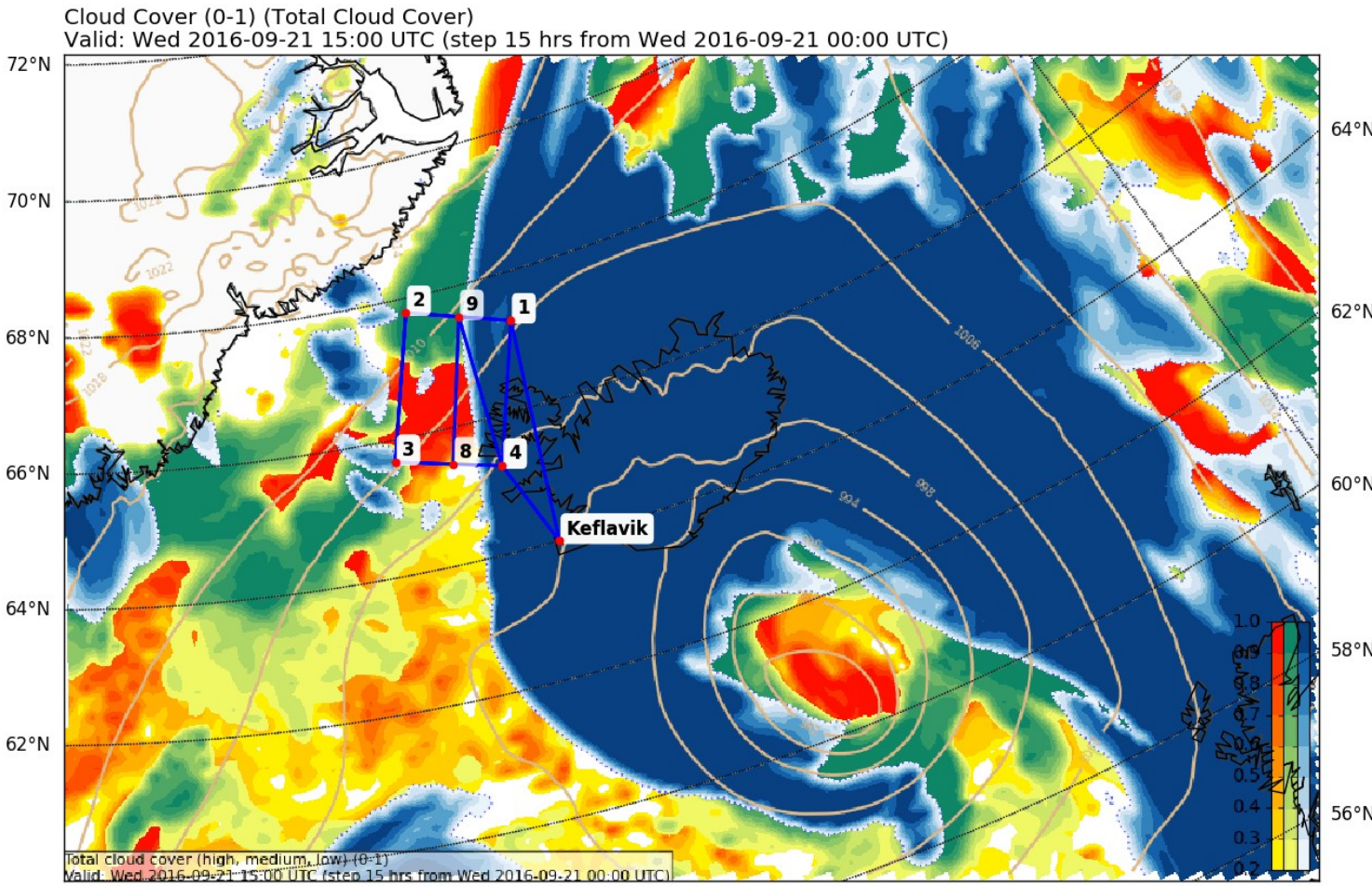




- Heavy precipitation & windy conditions in Northern UK, Ireland, Scotland
- Affecting North Sea region on Tu

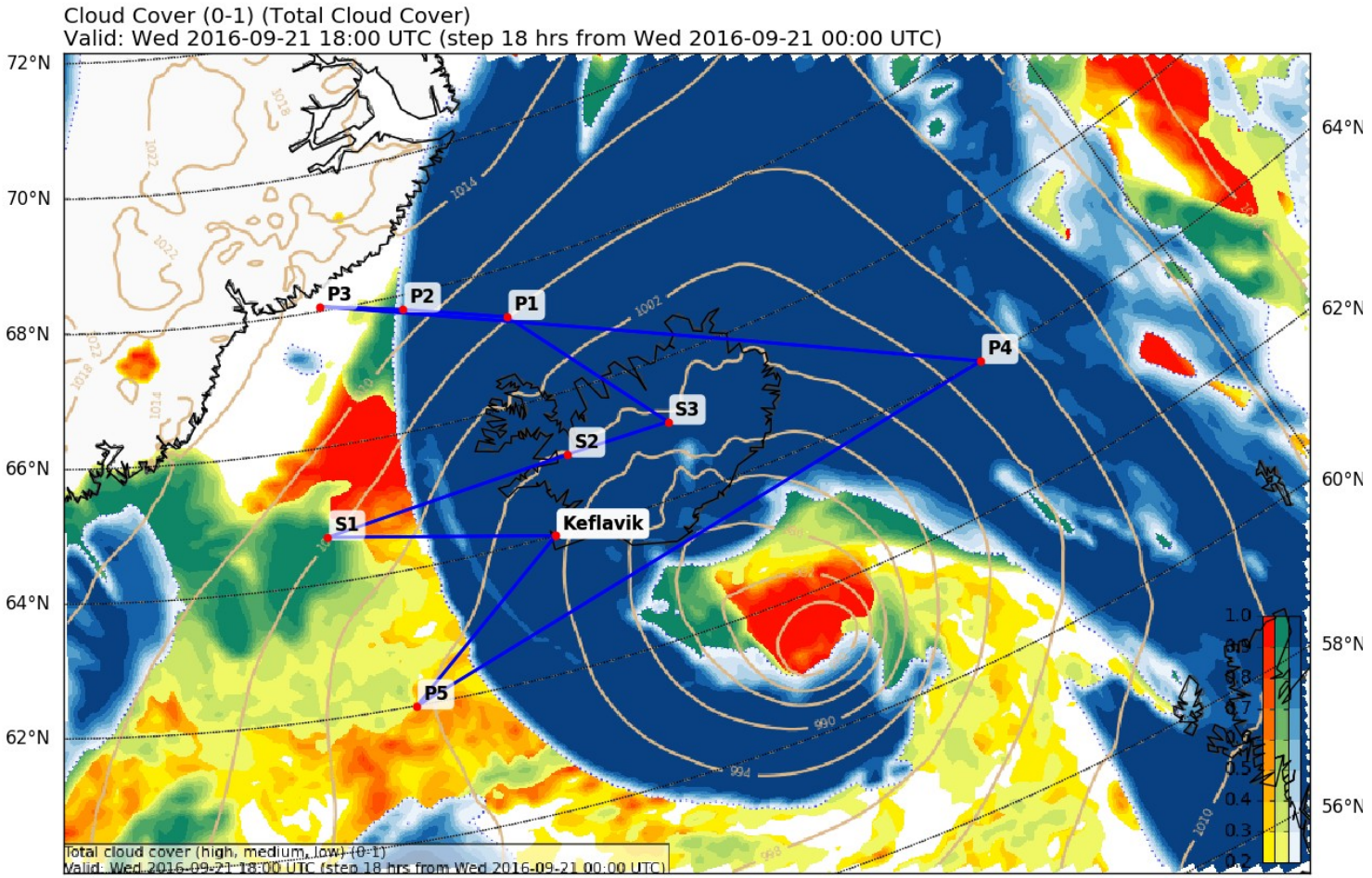
Flight pattern for today

FALCON



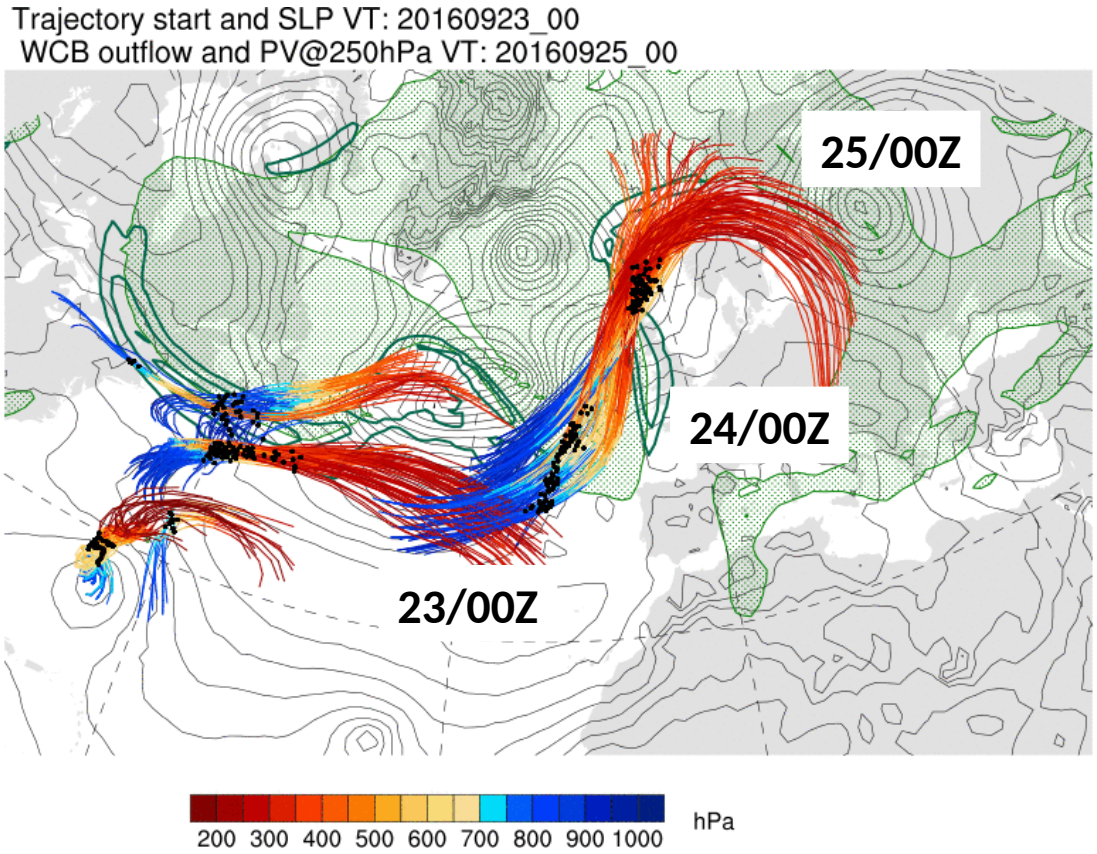
Flight pattern for today

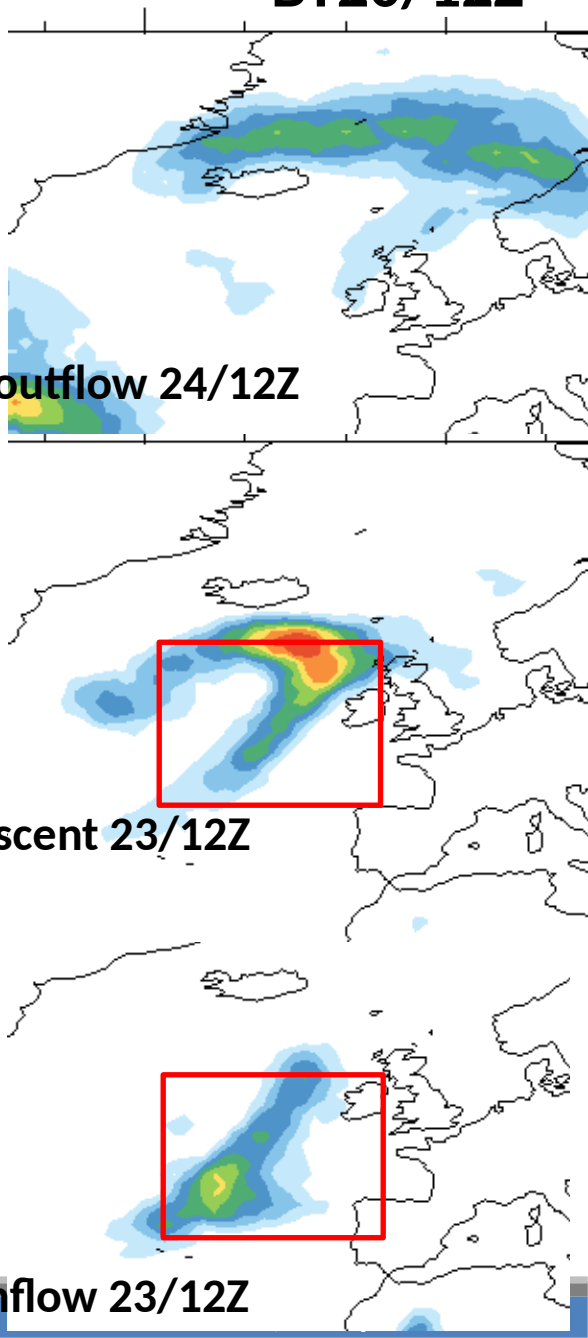
HALO



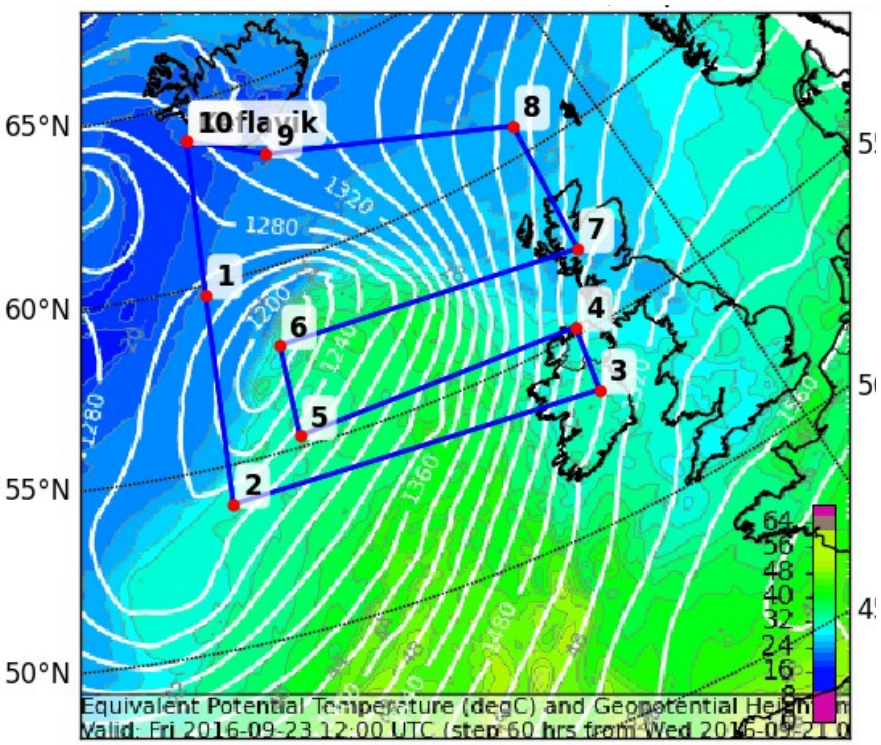
Friday 23 (Saturday 24?) September: Lagrangian measurement of WCB

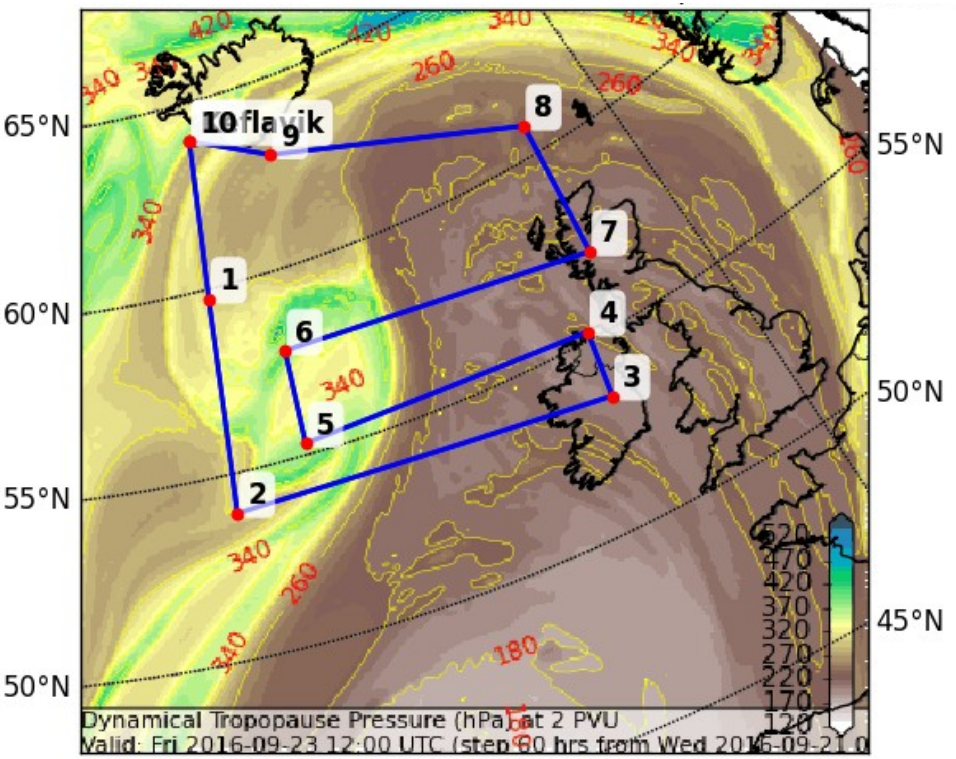
WCB probabilites





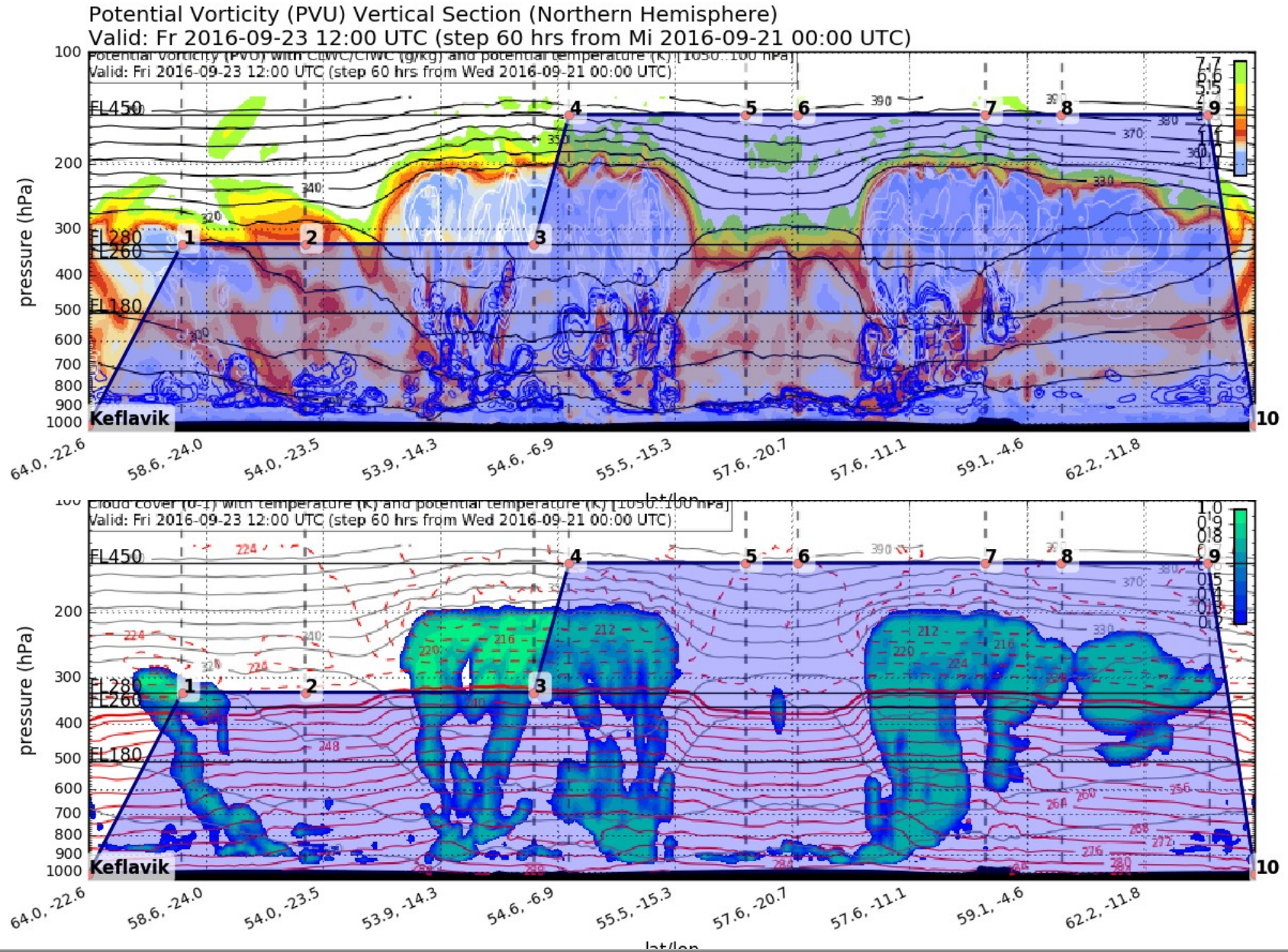
Flight planning for Friday 23 September 2016



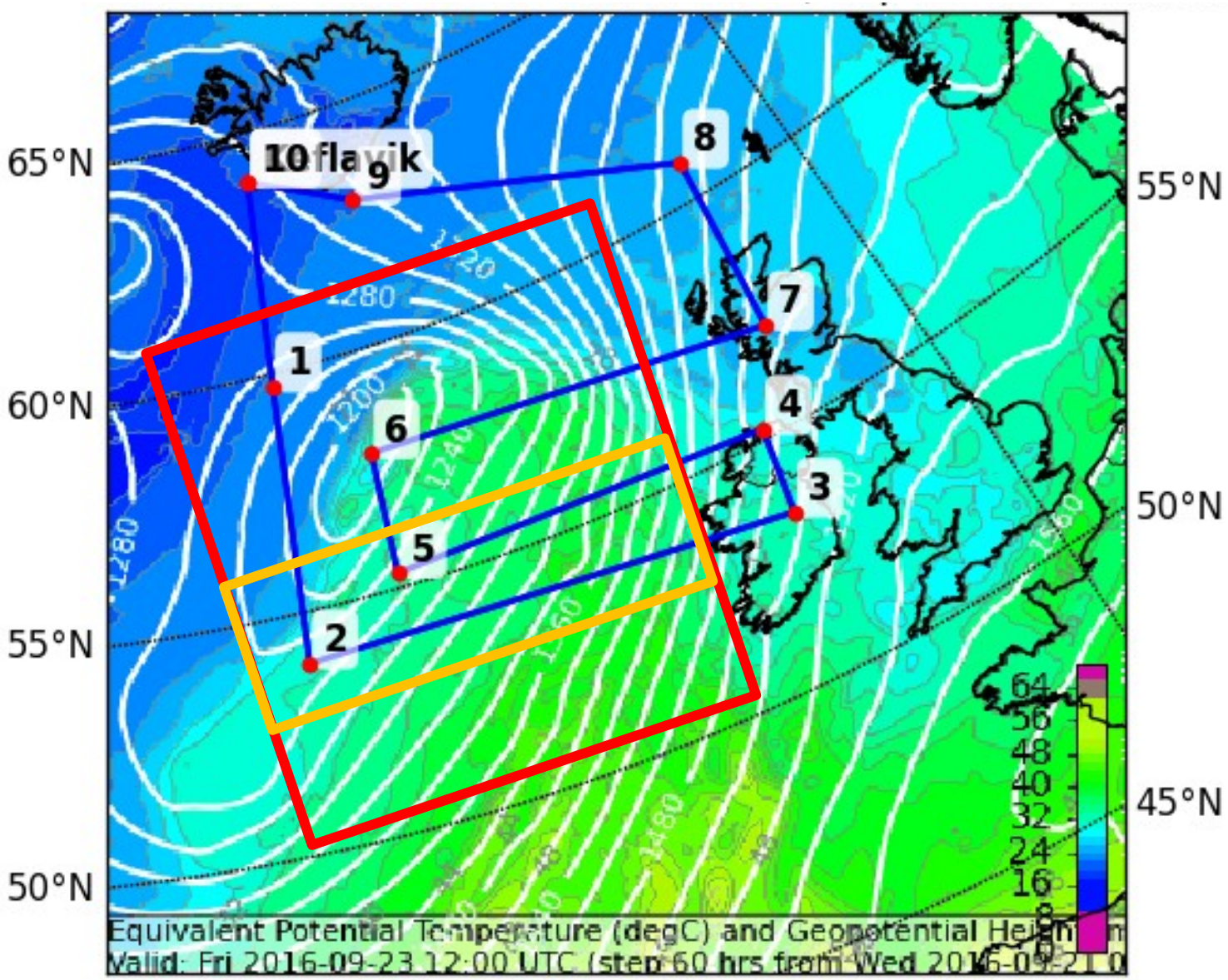


- Flight length: 6100 km (point 0-3 at FL 280) → too long?
- Flight centered around 12 UTC
- Coordinated flight with FAAM leg 4-5 → timing to be decided tomorrow

Flight planning for Friday 23 September 2016



NOTAM Box?


65°N
60°N
55°N
50°N
55°N
50°N
45°N
10
9
8
7
1
6
4
3
5
2
64
56
48
40
32
24
16
8
Equivalent Potential Temperature (degC) and Geopotential Heigh
Valid: Fri 2016-09-23 12:00 UTC (step 60 hrs from Wed 2016-09-21 0

Summary plans

- **Next mission today**
  - **FALCON** flight remains unchanged
  - **HALO** almost unchanged (eastern leg slightly moved toward the north)
- **WCB ascent measurements Friday 23 September**
  - **HALO** on Friday in NOTAM region, dropsondes, **meet** UK

    FAAM BAE 146 west of Ireland
- **Option for flight on Saturday to measure WCB outflow**
  - **HALO** and/or **FALCON** Saturday outflow Iceland/North of UK
- **Outlook Sunday – Wednesday :**
  - 2 Systems: DS cyclone and TC Karl, strong WCB activity
  - Likely several flights in period Monday-Thursday