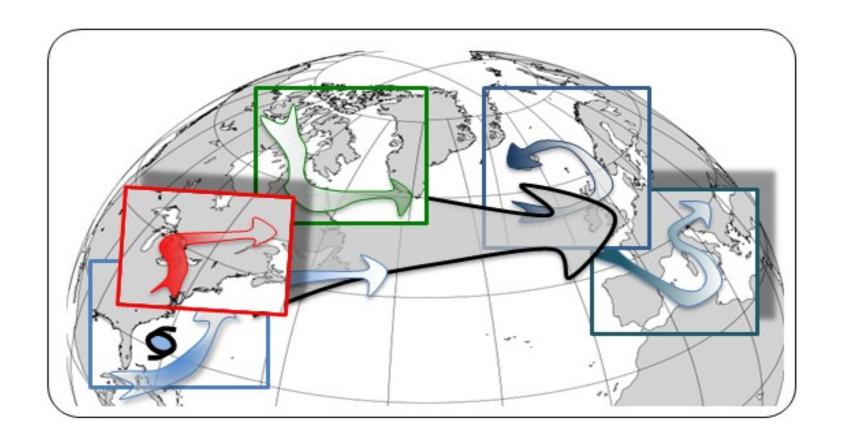
# **NAWDEX - General Planning Meeting**

26 September 2016, Keflavik 11 UTC



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26 September 2016, Keflavik 11 UTC

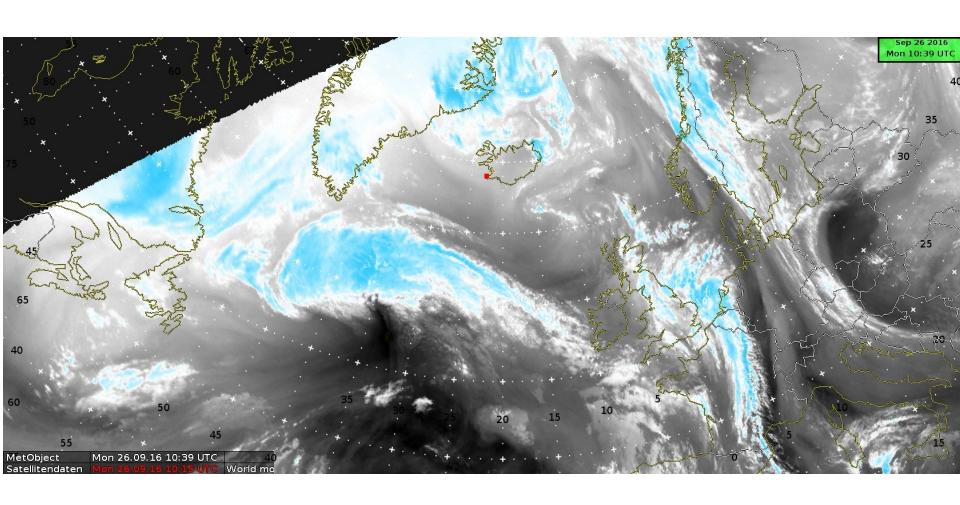
### **Key issues today**

- 1. Coordinated flights of DLR-Falcon and UK FAAM BAE 146 Tuesday (Andreas)
- 2. Flight of HALO on Tuesday afternoon (Hanin, Andreas, Christian K.)
- 3. Outlook: Radiosonde IOP Tue/Wed for gravity waves generated by jet
- 4. Additional Radiosondes requested (Tue-Sat) for high impact weather event over Northern Europe (Thu-Sat)

## **NAWDEX - General Planning Meeting**

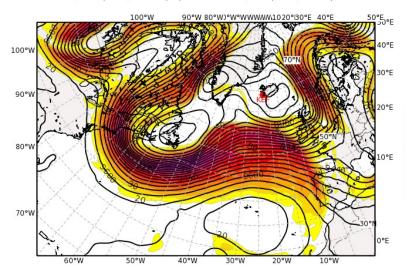
### 25 September 2016, Keflavik 11 UTC

- 1. Current HALO flight update
- 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. Discussion flights on Tuesday (Halo, Falcon, FAAM)
- 6. Report of Ground-Based Observation coordinator
- 7. Gravity wave IOP on Wednesday
- **8.** Coordination with other aircraft (Input from other groups)

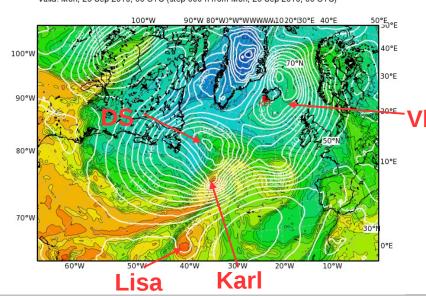


### **Analysis - 26 Sep 2016, 00 UTC**

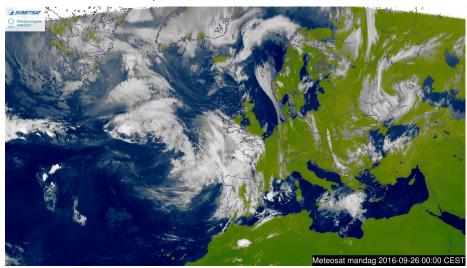
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Mon, 26 Sep 2016, 00 UTC (step 000 h from Mon, 26 Sep 2016, 00 UTC)



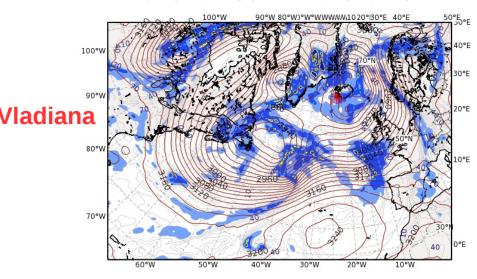
Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Mon, 26 Sep 2016, 00 UTC (step 000 h from Mon, 26 Sep 2016, 00 UTC)

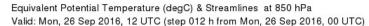


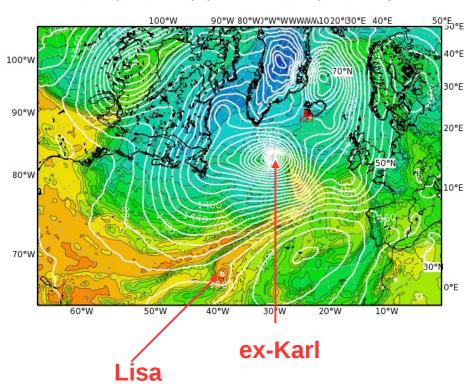
Z300, SAT THE850, RH700



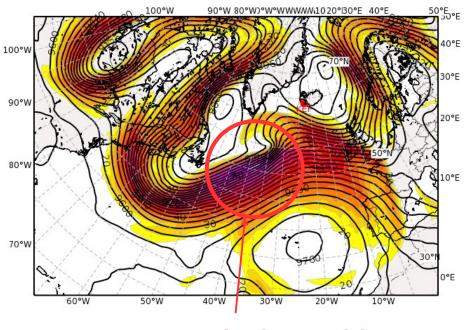
Relative Humidity (%) and Z (m) at 700 hPa Valid: Mon, 26 Sep 2016, 00 UTC (step 000 h from Mon, 26 Sep 2016, 00 UTC)





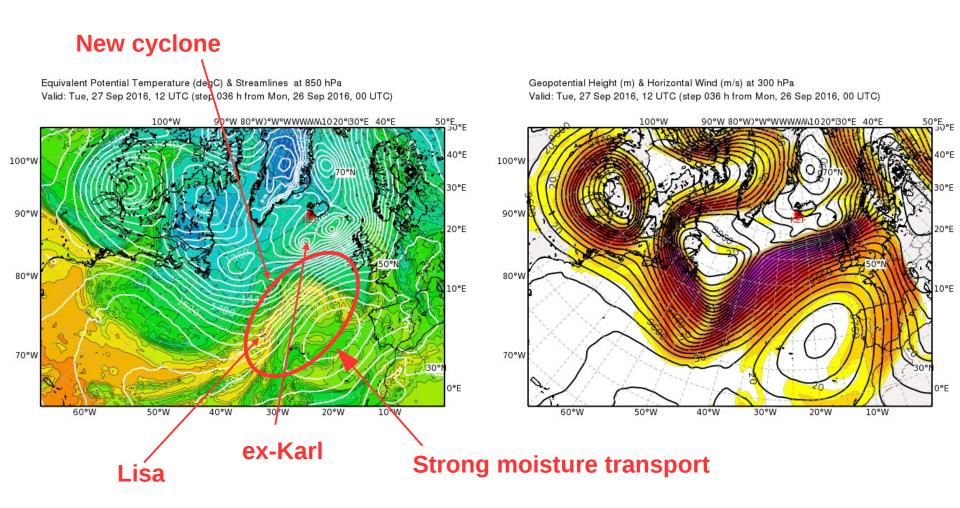


Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Mon, 26 Sep 2016, 12 UTC (step 012 h from Mon, 26 Sep 2016, 00 UTC)

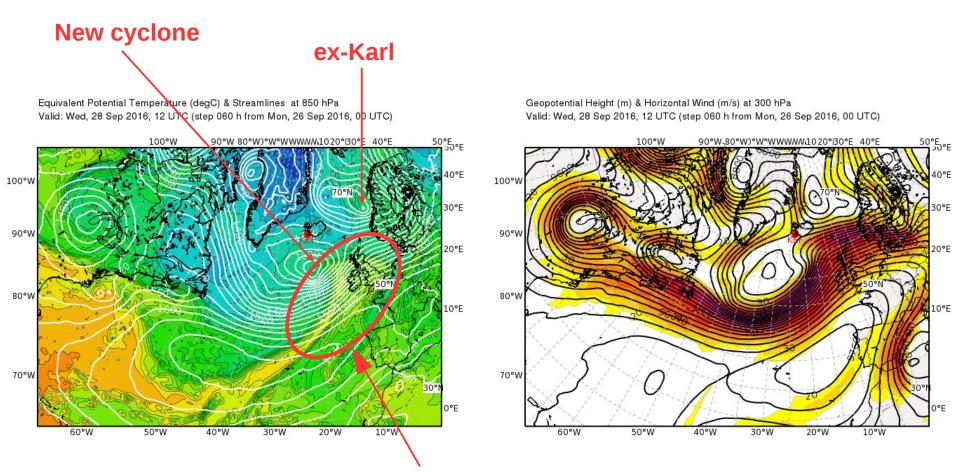


Strong jet (> 85 m/s)



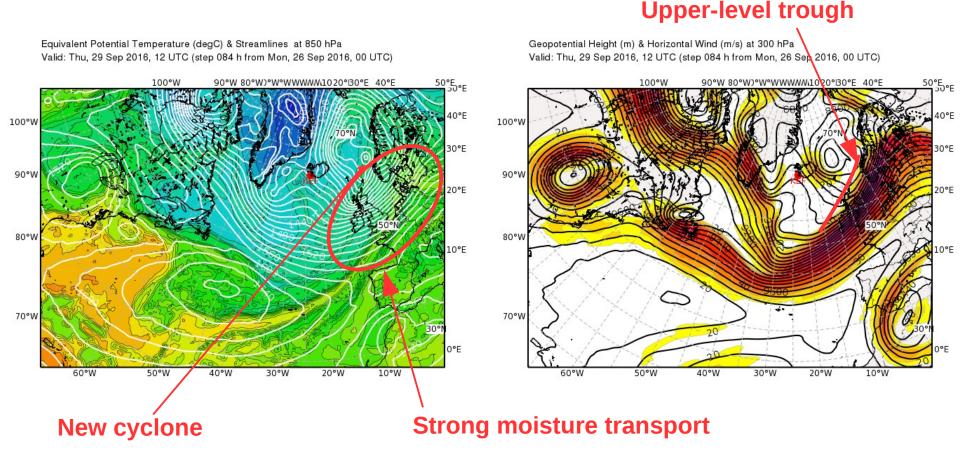


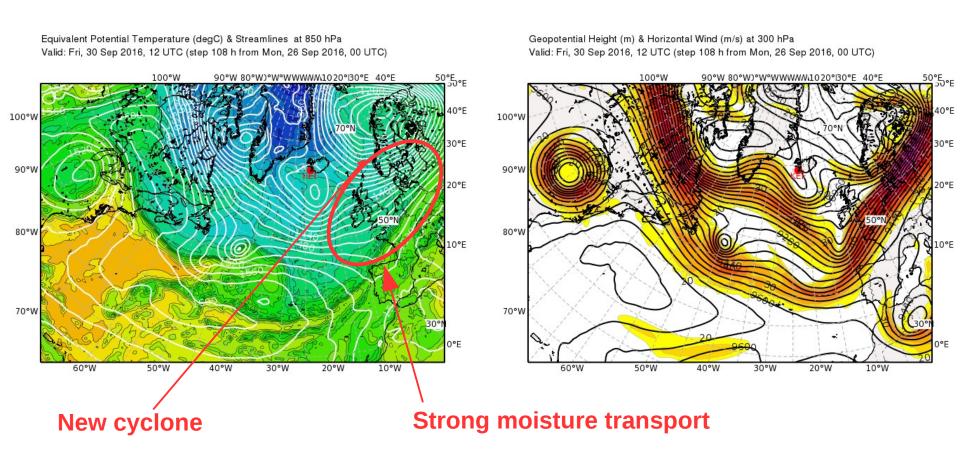
NAWDEX General Planning Meeting



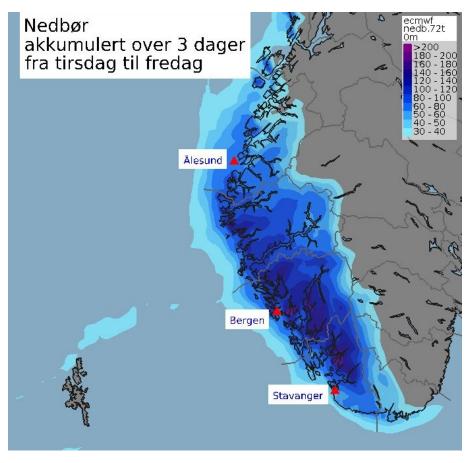
**Strong moisture transport** 





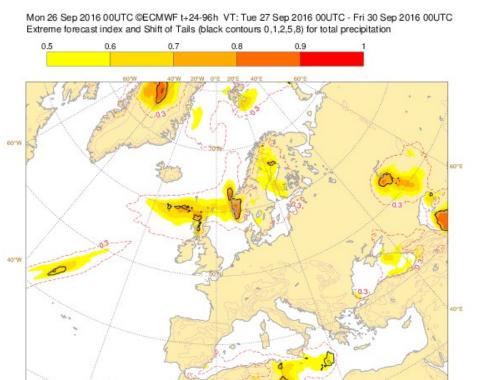


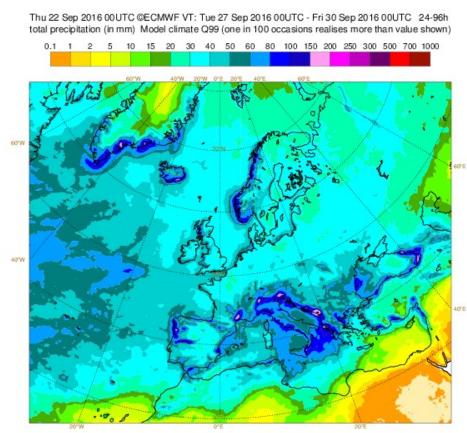
### Potential for heavy precipitation over Scandinavia (Tue-Fri)



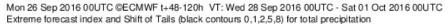
Up to 180 mm precipitation in 72h!

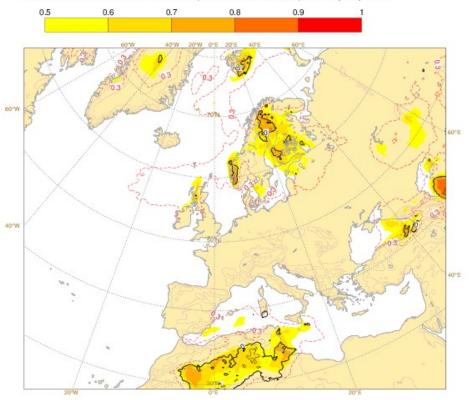
### Potential for heavy precipitation over Scandinavia (Tue-Fri)

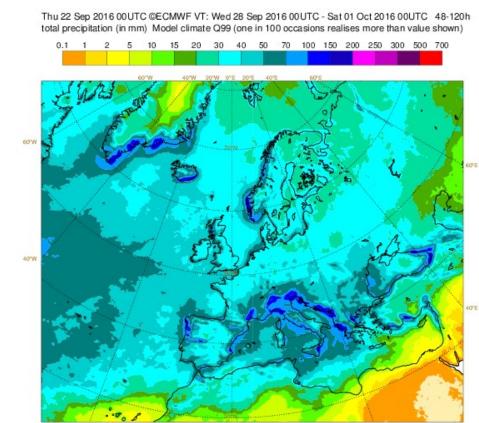




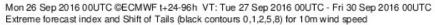
### Potential for heavy precipitation over Scandinavia (Wed-Sat)

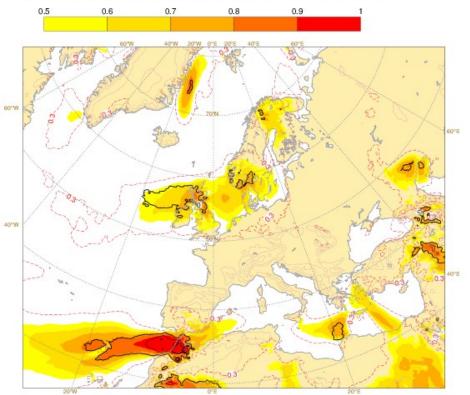


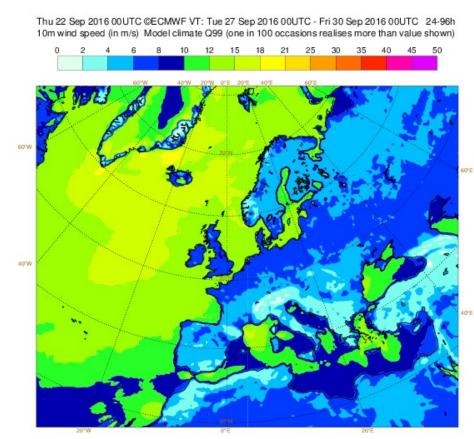




### **Potential for strong winds over Northern Europe (Tue-Fri)**

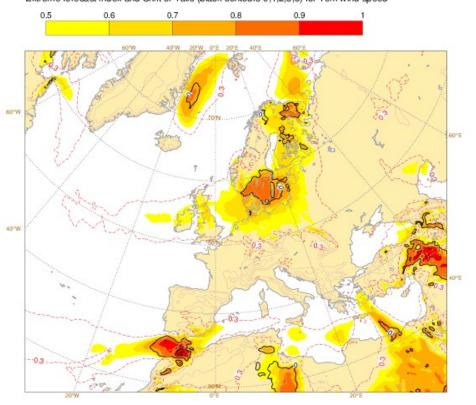


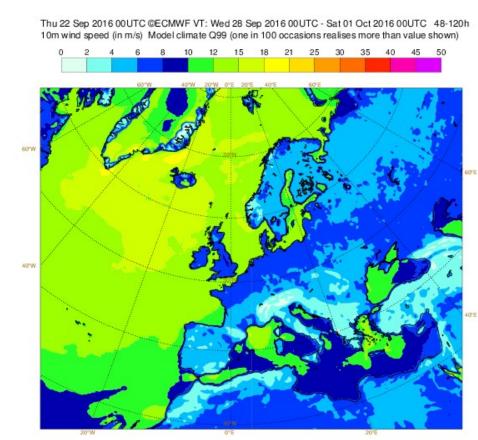




### **Potential for strong winds over Northern Europe (Wed-Sat)**

Mon 26 Sep 2016 00UTC ©ECMWF t+48-120h VT: Wed 28 Sep 2016 00UTC - Sat 01 Oct 2016 00UTC Extreme forecast index and Shift of Tails (black contours 0,1,2,5,8) for 10m wind speed

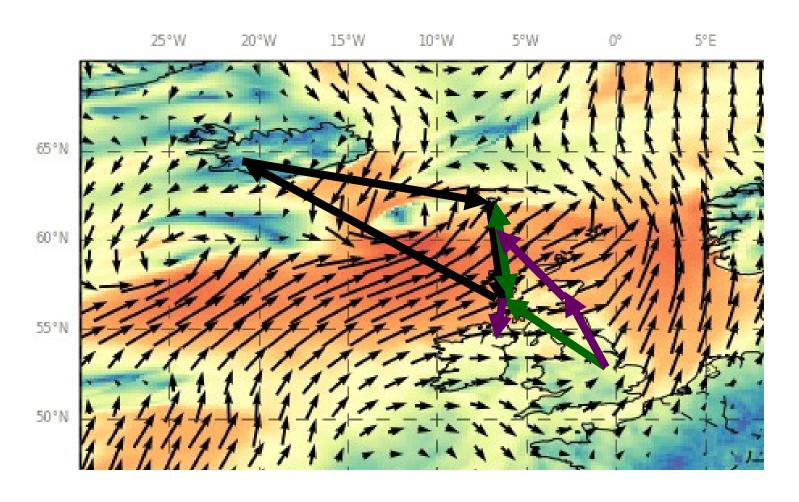


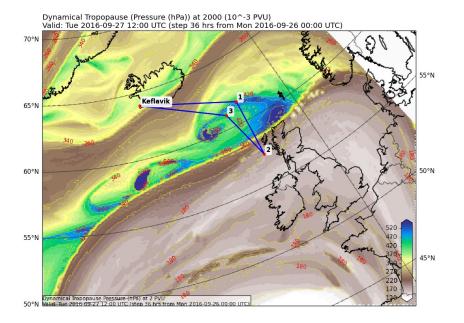


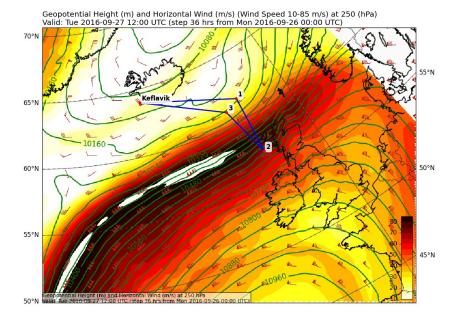
**Tuesday Mission (DLR-Falcon, FAAM)** 

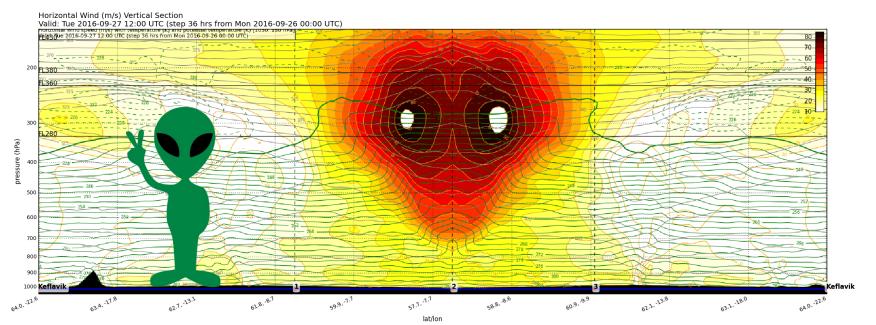


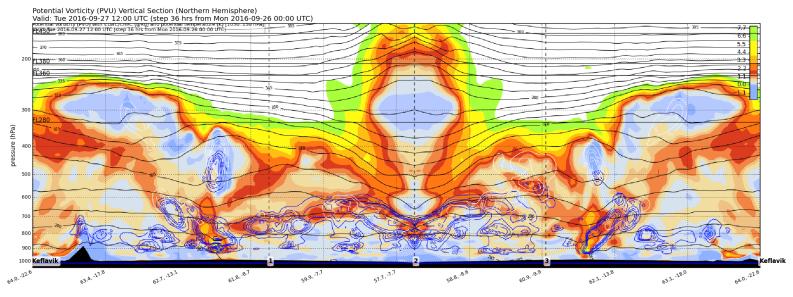
# Met Office Oper. Global: Wind speed a 2016/09/27 14Z T+38 from

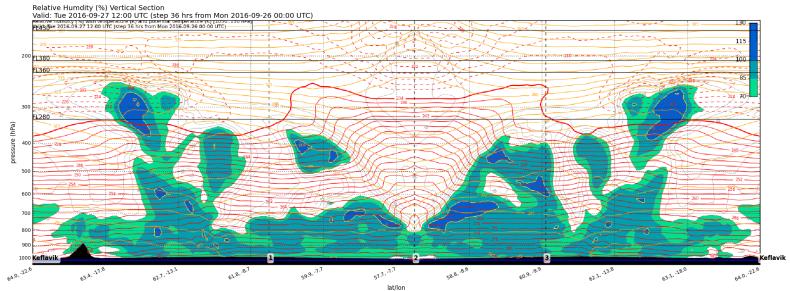




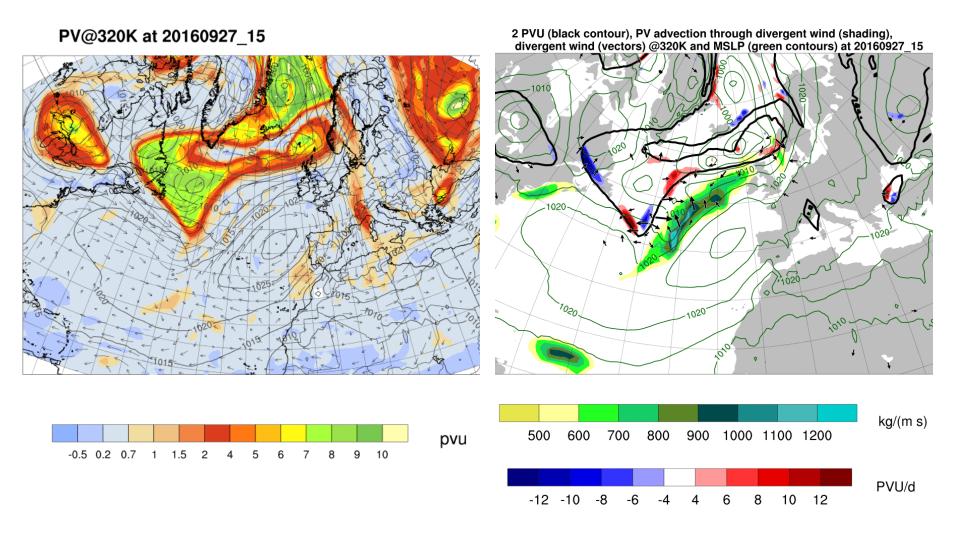




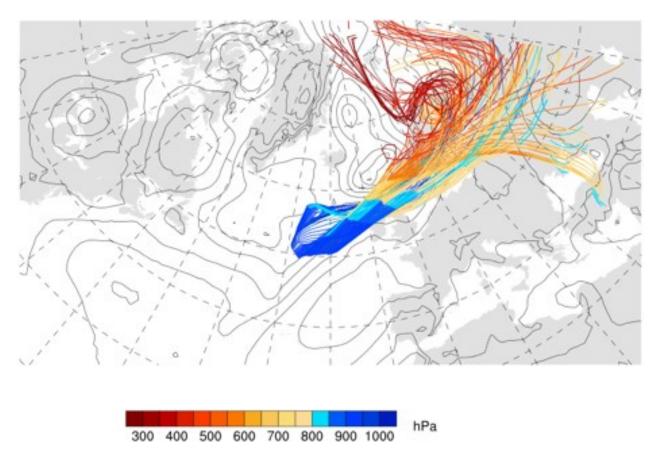




# **Tuesday Mission (HALO)**

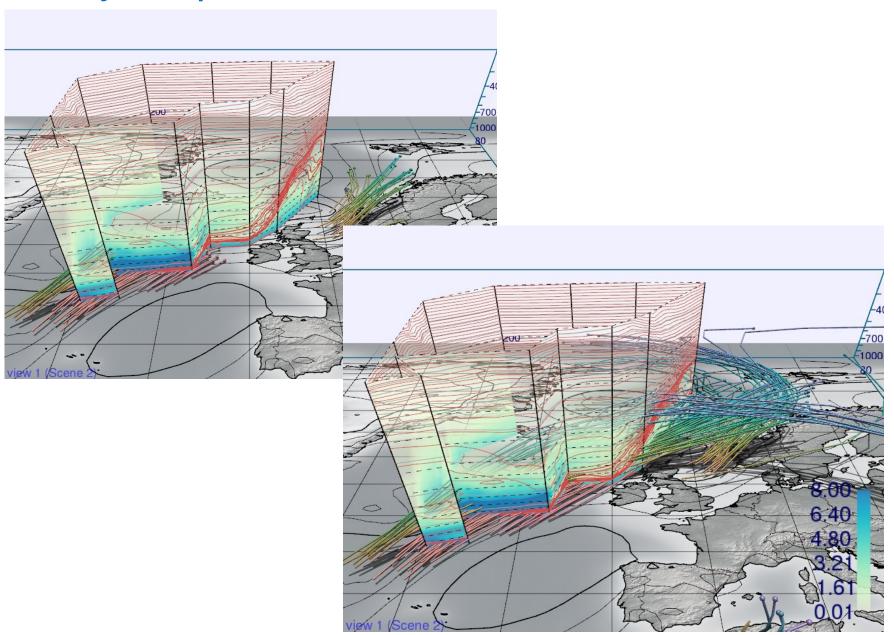


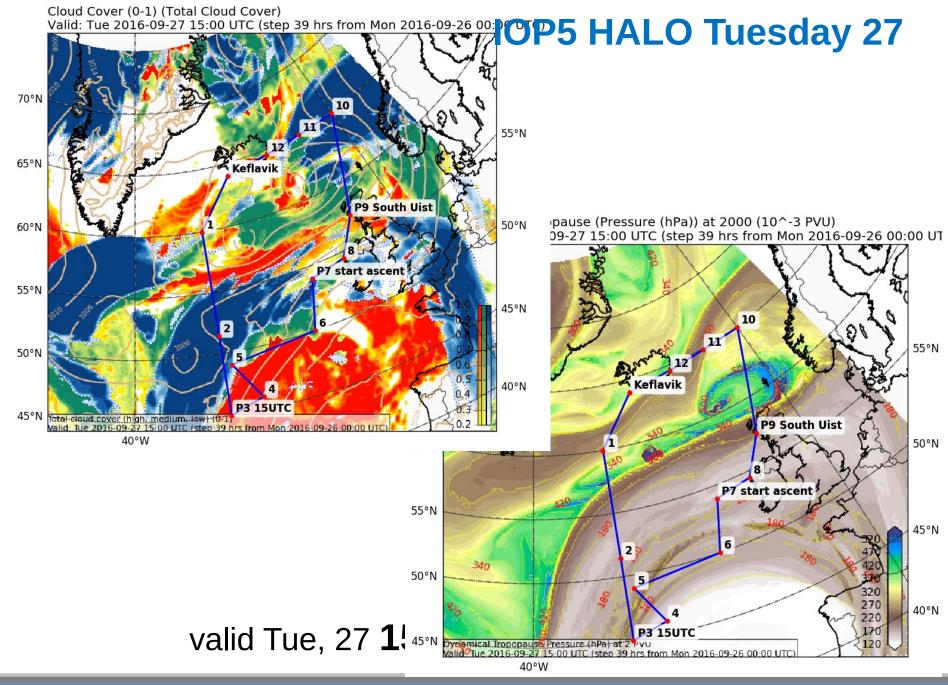
### **5-day forward trajectories**



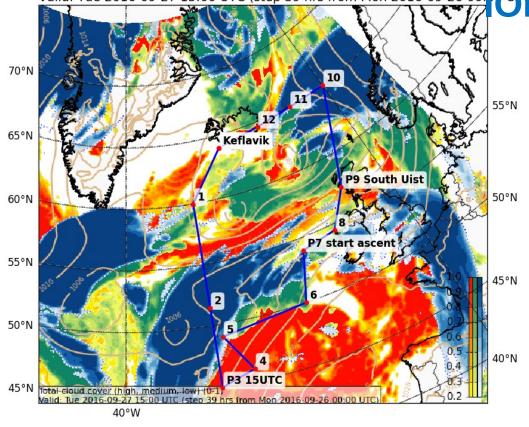
## **Tuesday, 27 Sep 2016 15 UTC**

### BT 25/12 UTC

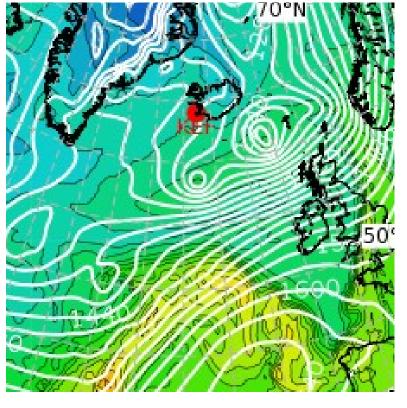






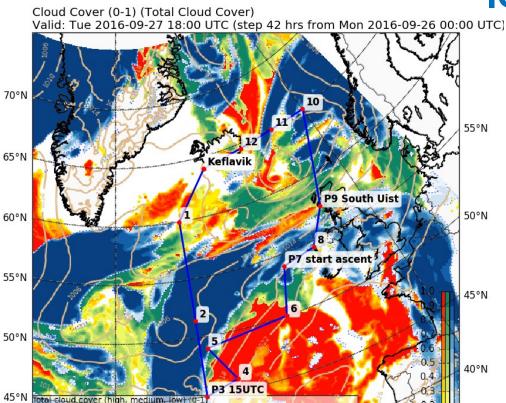


#### THE850 BT16/00Z VT 27/15Z

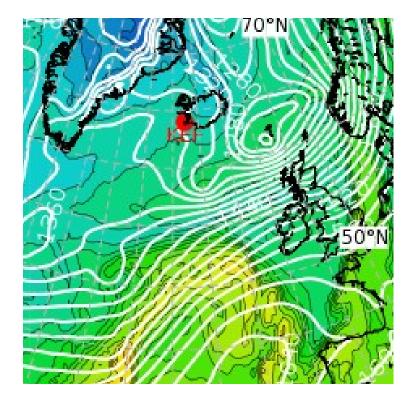


valid Tue, 27 **15UTC** BT26/00Z

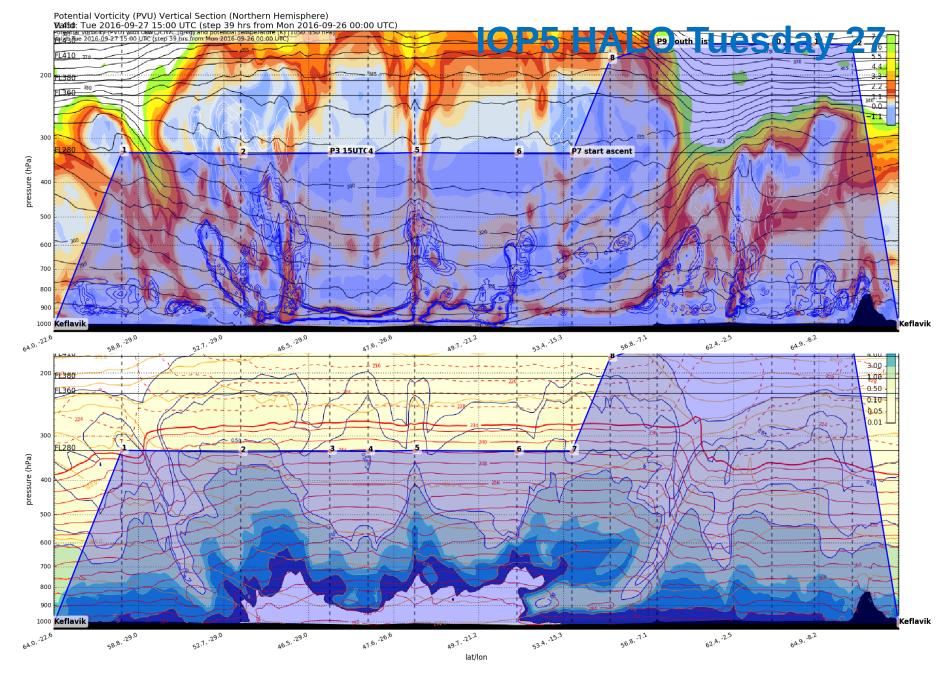
## **IOP5 HALO Tuesday 27**

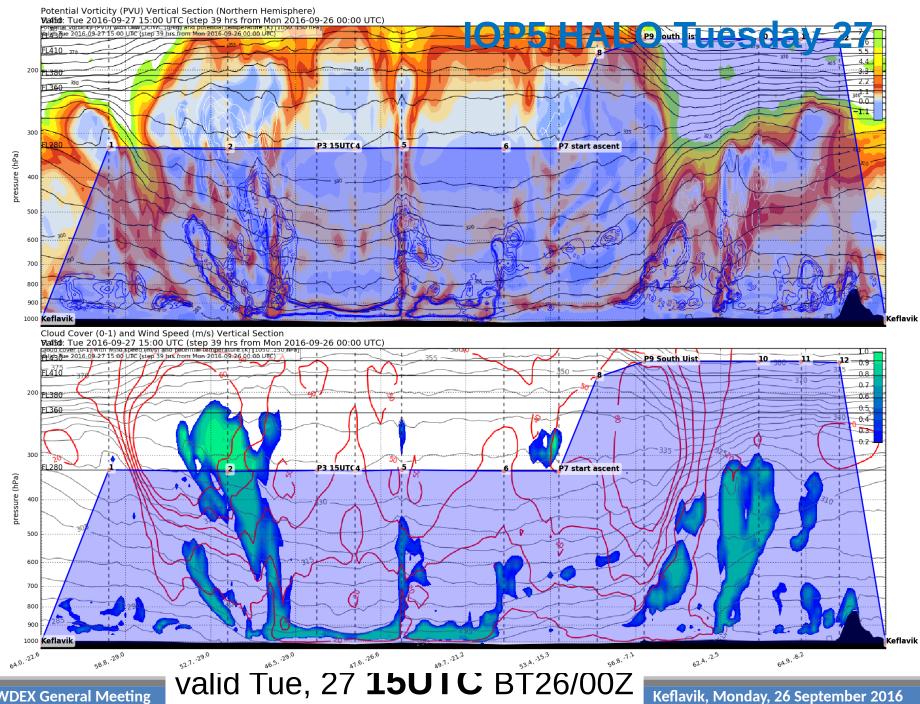


THE850 BT16/00Z VT 27/18Z



valid Tue, 27 **15UTC** BT26/00Z





## Radiosonde IOP Tue/Wed

### **Plan for Radiosonde launches**

- Start: Tuesday 18 UTC
- Finish: Wednesday 12 UTC
- Request 2 additional Radiosondes from IMO (for Tuesday 18 UTC and Wednesday 6 UTC)
- DLR launches parallel to IMO balloons with less Helium
  - -> get vertical gradients
- Launch of large 3kg balloon on Wednesday 0 and 6 UTC
- Today test launch



## **Summary plans**

- Today: Final flight plans of DLR-Falcon/UK FAAM BAE 146 (take-off Tuesday 09:00 UTC, meet FAAM at 10:40 UTC)
- Today: final flight plans for HALO flight on Tuesday (take-off Tuesday 11:30 UTC)
- Additional radiosounds over western Europe (to be defined in the afternoon discussion)
- No flights planned for Wednesday!
- Outlook: Possible cyclone on Fri/Sat