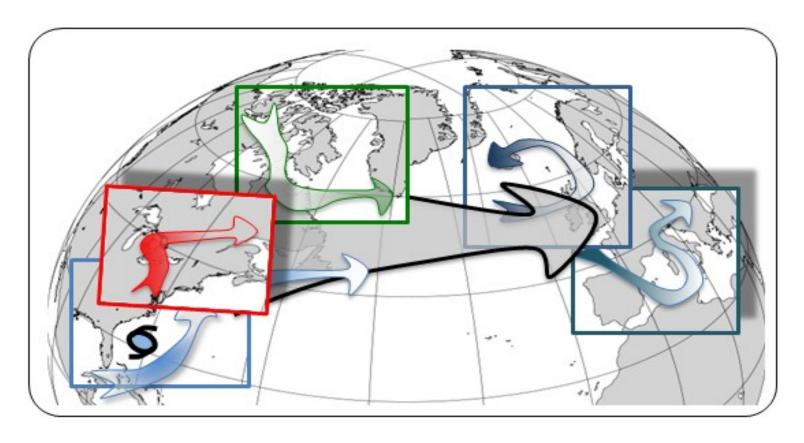
NAWDEX - Weather discussion

27 September 2016, Keflavik, Iceland

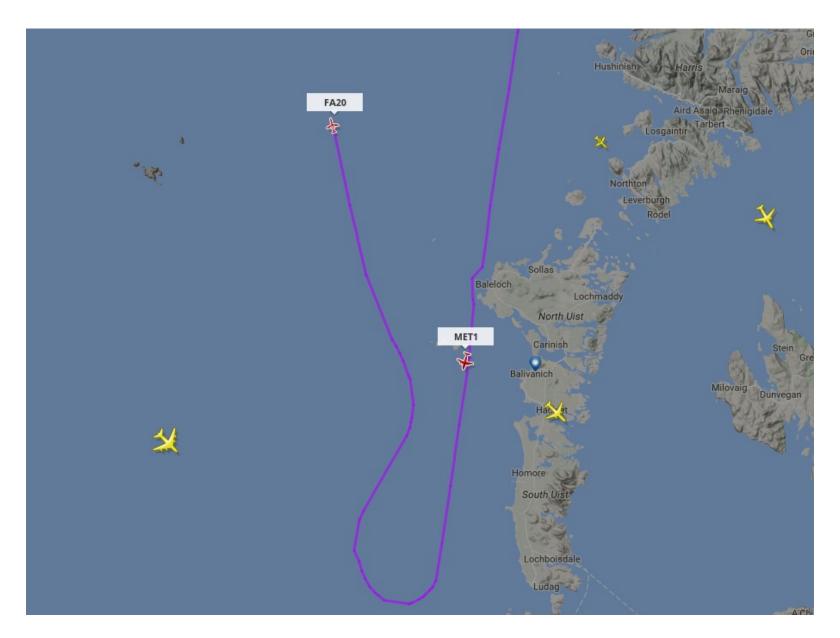


Agenda

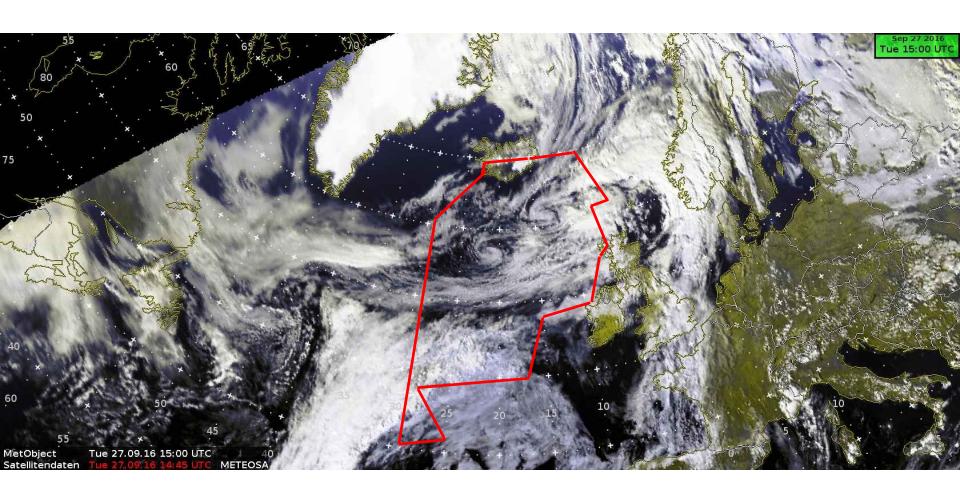
- Today's flights
- Radiosonde IOP
- Current synoptic situation and forecast until Sunday
- Additional radiosoundings over Europe

Today's flights

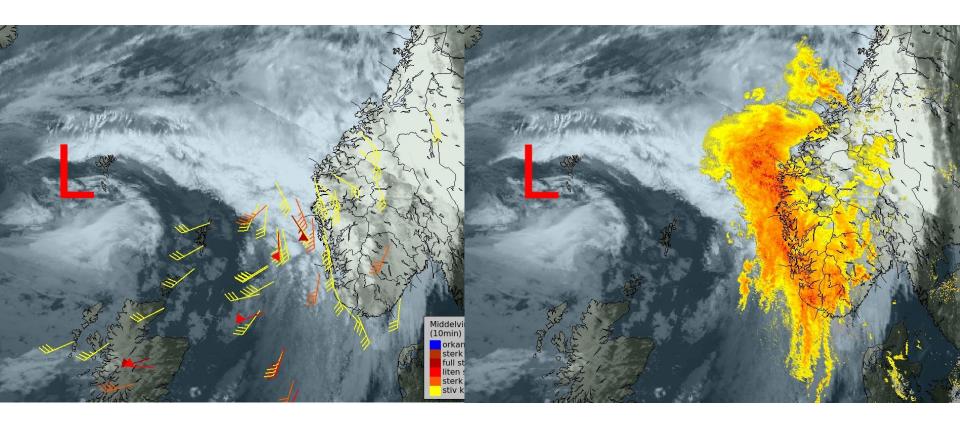
Falcon – UK FAAM BAE 146 coordination



HALO flight

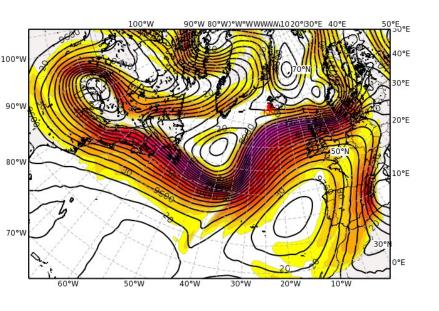


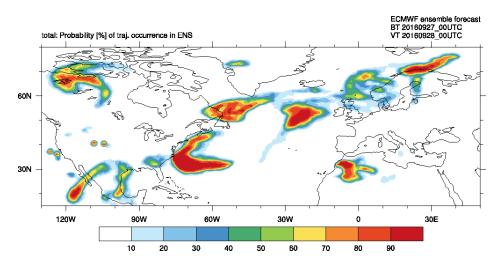
Downstream impact

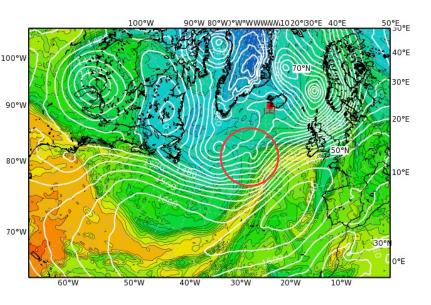


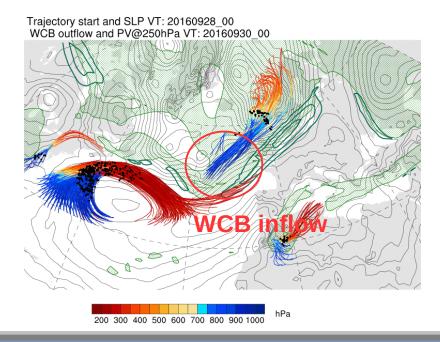
Current synoptic situation and forecast until Friday

Forecast - Wed, 28 Sep 2016, 00 UTC

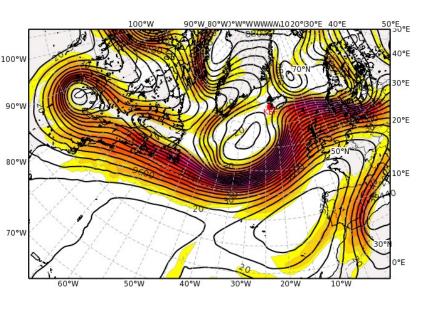


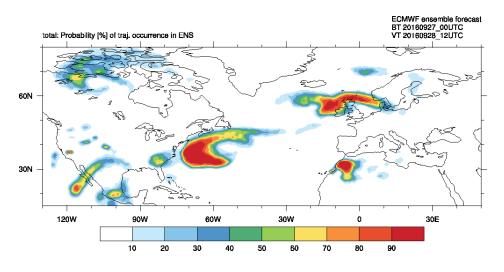


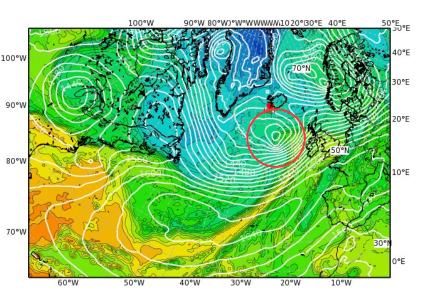


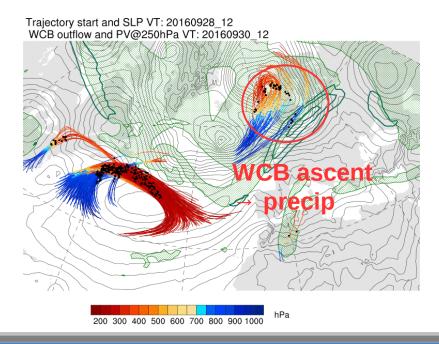


Forecast – Wed, 28 Sep 2016, 12 UTC

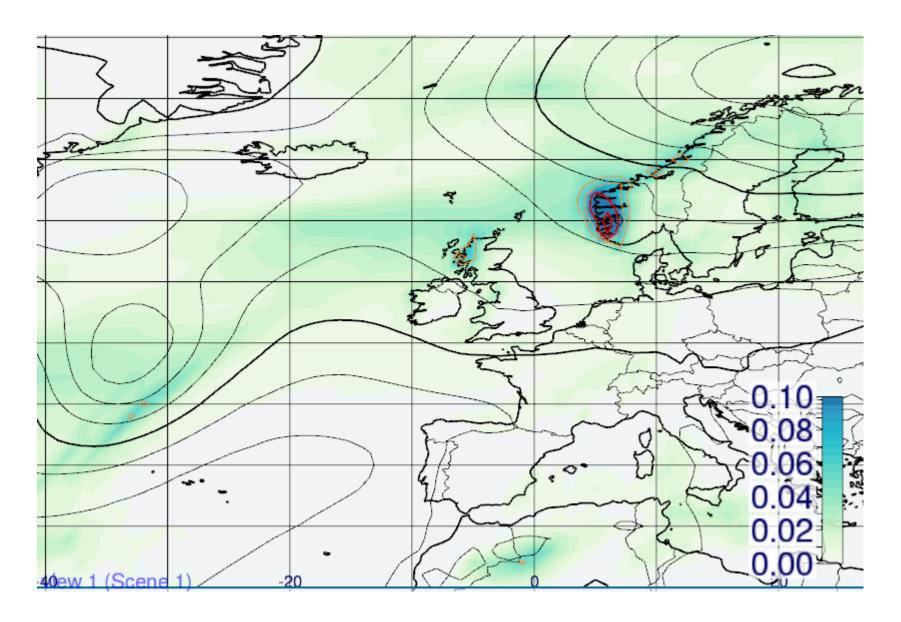




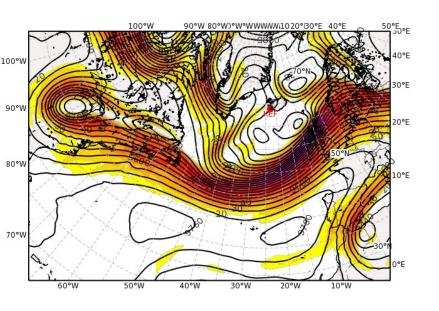


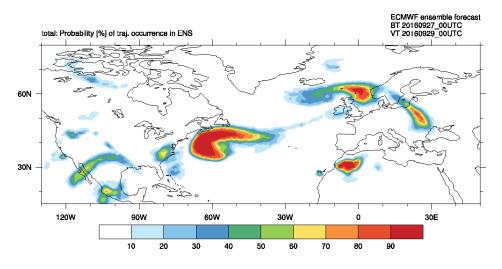


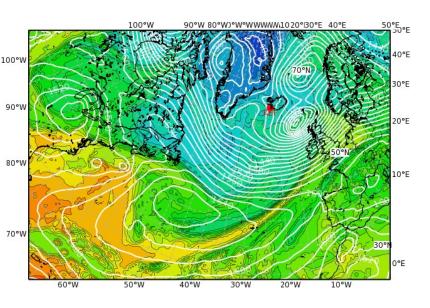
Forecast – Ensemble mean of accumulated precip until Saturday

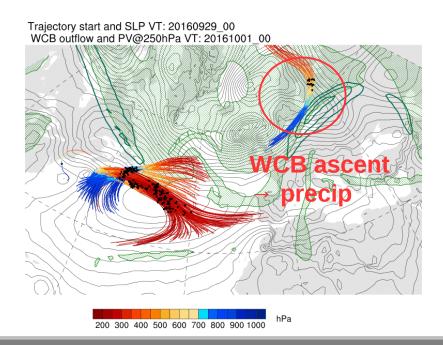


Forecast - Thu, 29 Sep 2016, 00 UTC

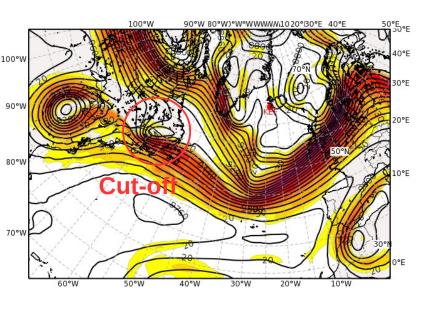


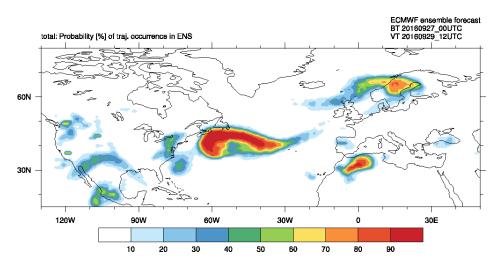


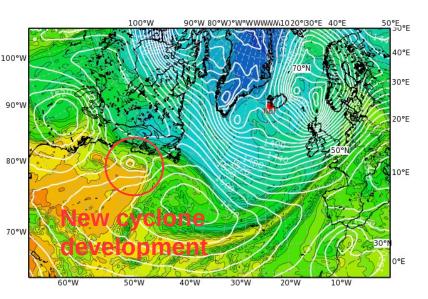


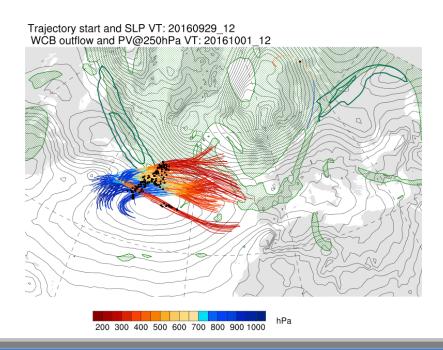


Forecast – Thu, 29 Sep 2016, 12 UTC

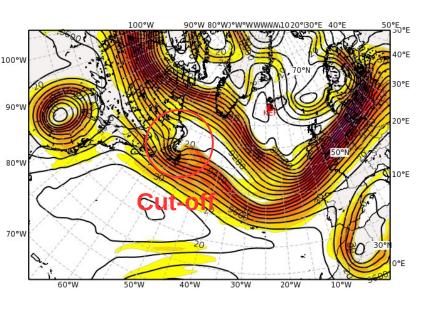


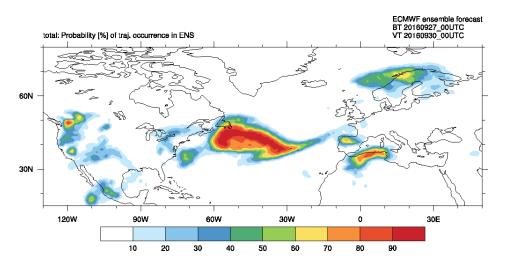


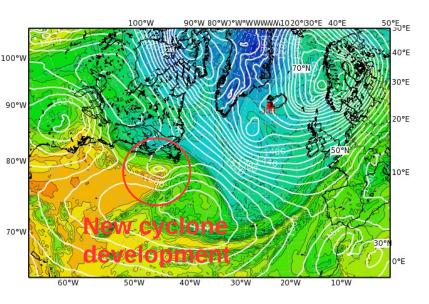


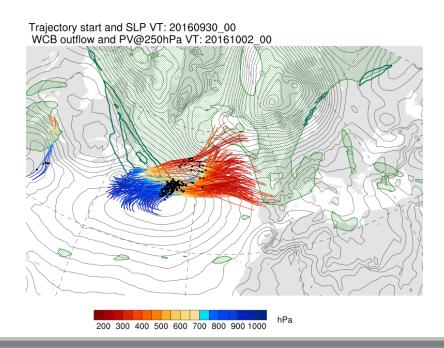


Forecast - Fri, 30 Sep 2016, 00 UTC

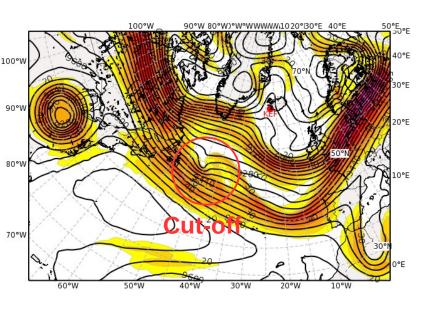


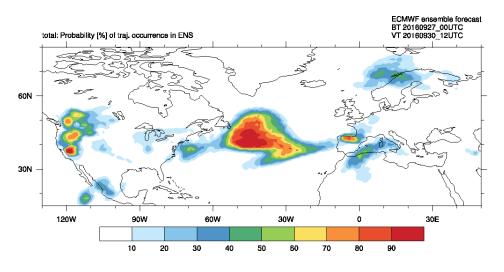


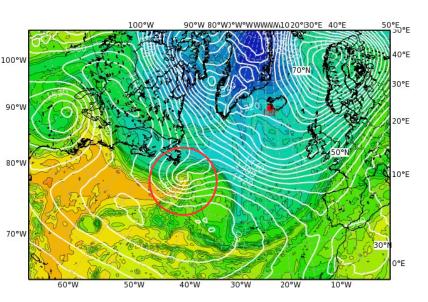


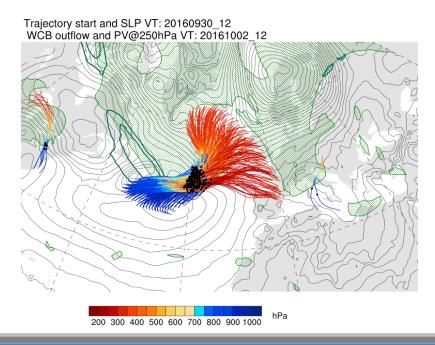


Forecast – Fri, 30 Sep 2016, 12 UTC

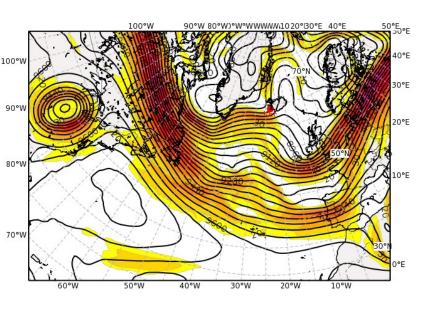


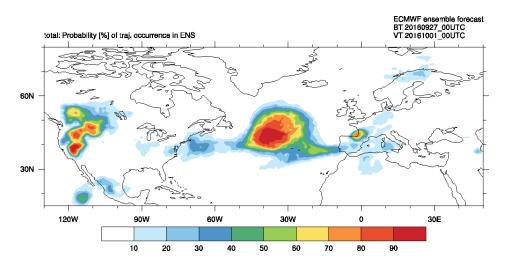


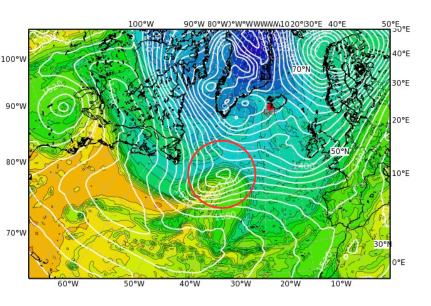


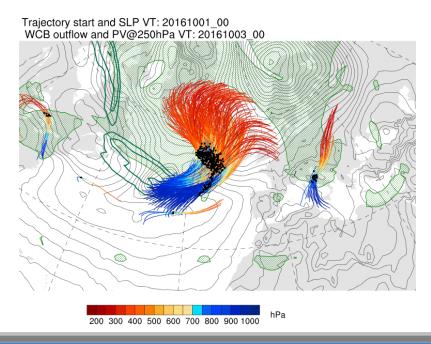


Forecast - Sat, 01 Oct 2016, 00 UTC

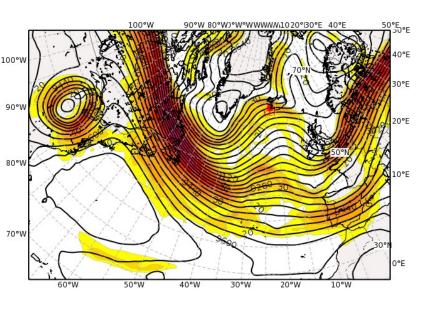


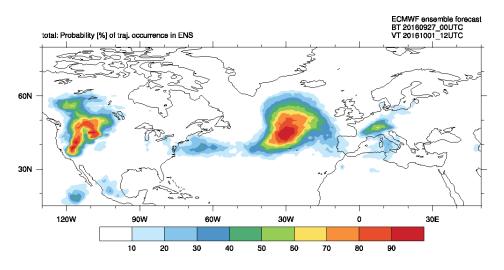


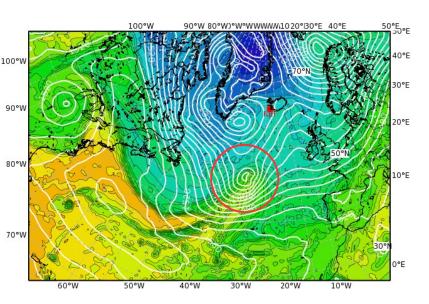


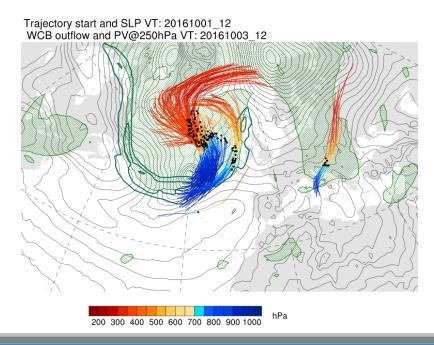


Forecast – Sat, 01 Oct 2016, 12 UTC

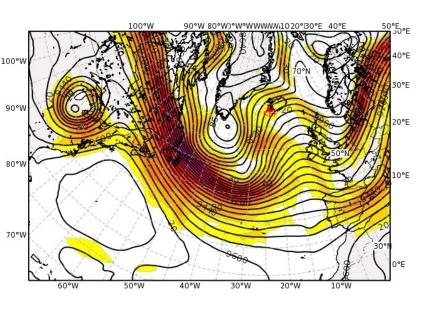


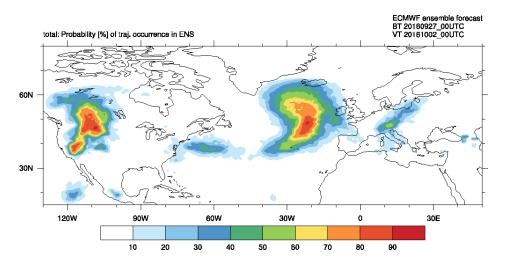


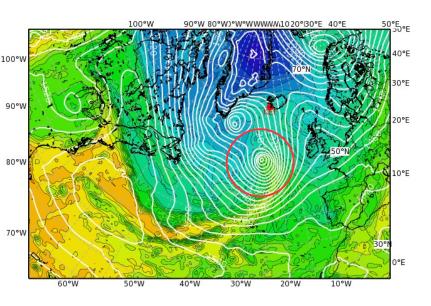


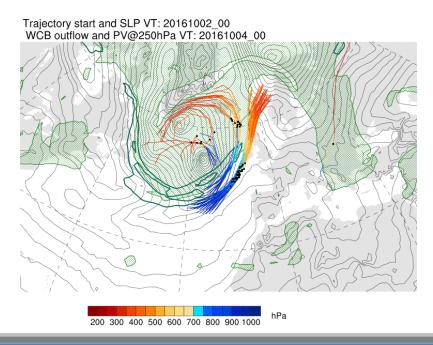


Forecast – Sun, 02 Oct 2016, 00 UTC

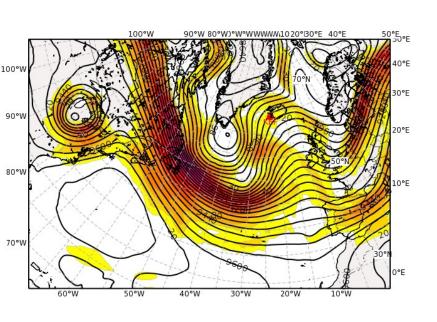


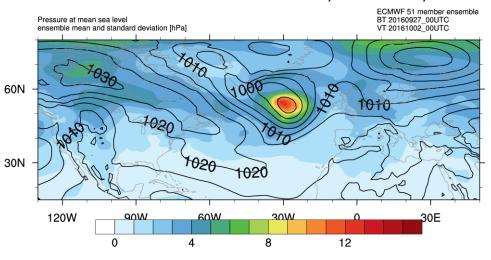


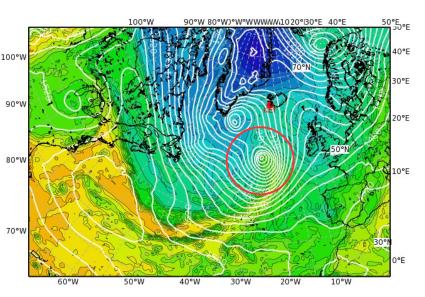


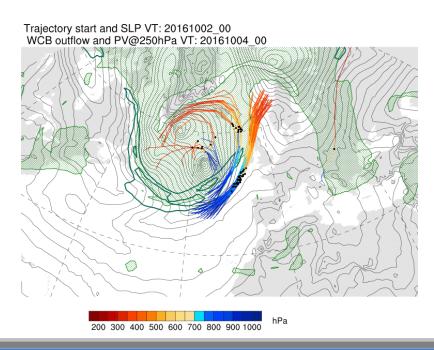


Forecast – Sun, 02 Oct 2016, 00 UTC



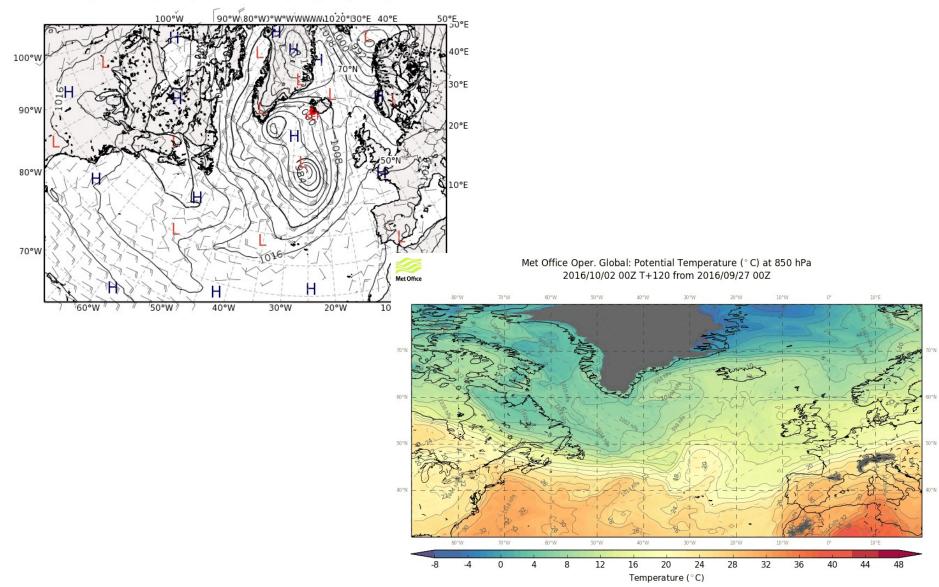






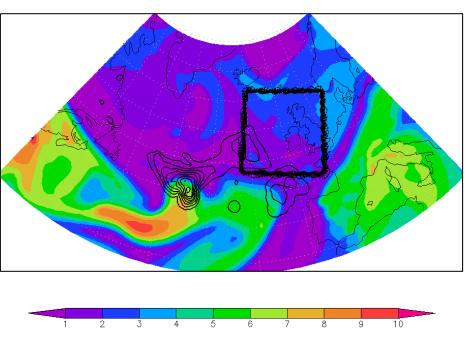
Forecast – Sun, 02 Oct 2016, 00 UTC



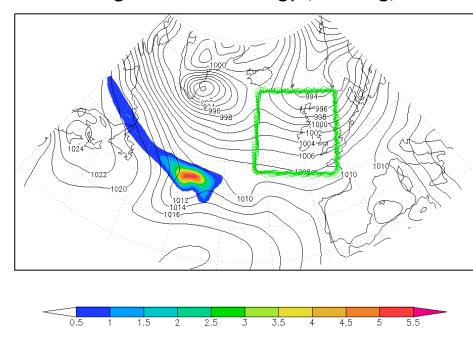


COAMPS Sensitivity (24h) Valid 18Z 1 Oct. Saturday (Box over UK)

700-hPa Water Vapor (shading)
Integrated Moisture Sensitivity (contours)

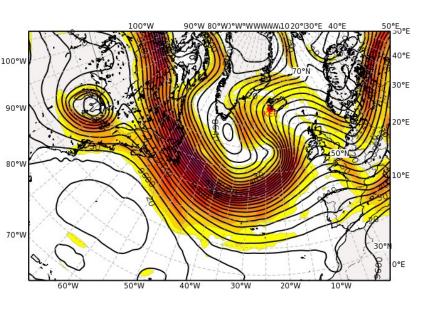


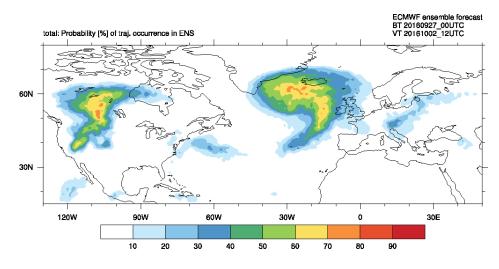
SLP (contour)
Integrated Total Energy (Shading)

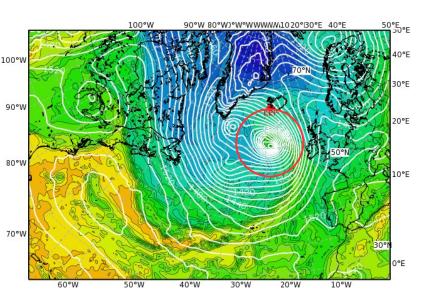


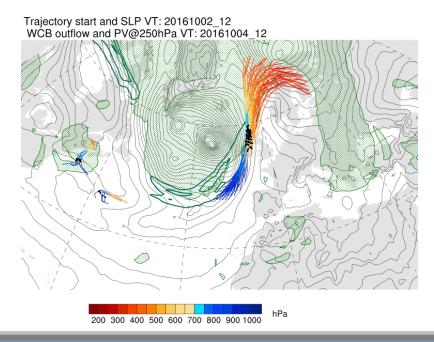
Sensitivity centered on open wave at northern edge of moisture plume. Forecast is further south and an open wave rather than a closed low, compared to ECMWF deterministic forecast.

Forecast - Sun, 02 Oct 2016, 12 UT2300, PV330, THE850, WCB







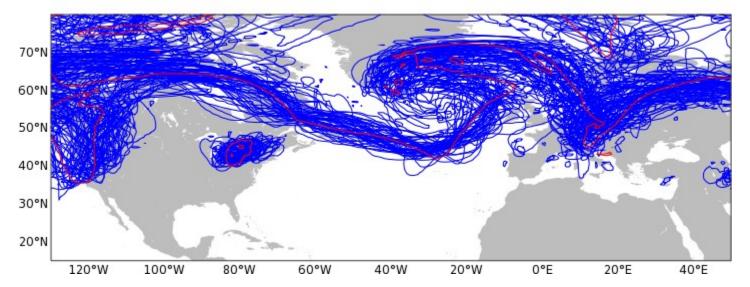


Predictability – last week vs this week

ECMWF ENSEMBLE FC

BT: 20160927 00UTC, VT: 20161003 00UTC

blue: perturbed, red: control

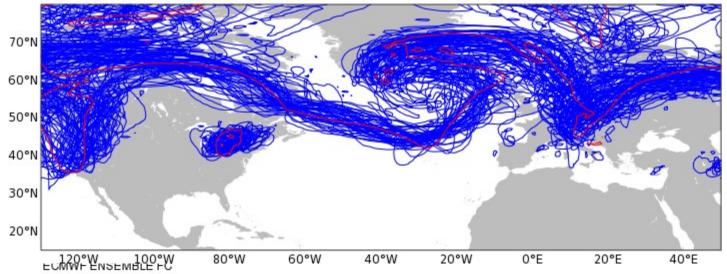


Predictability – last week vs this week

ECMWF ENSEMBLE FC

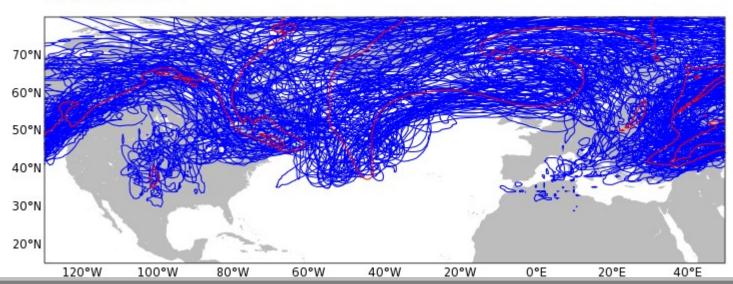
BT: 20160927 00UTC, VT: 20161003 00UTC

blue: perturbed, red: control



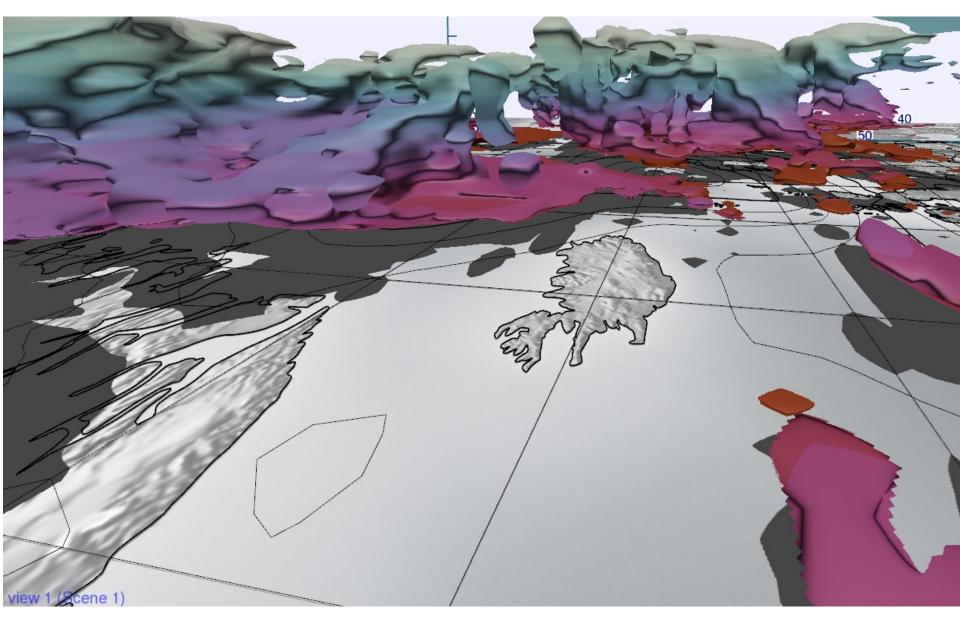
BT: 20160922 00UTC, VT: 20160928 00UTC

blue: perturbed, red: control

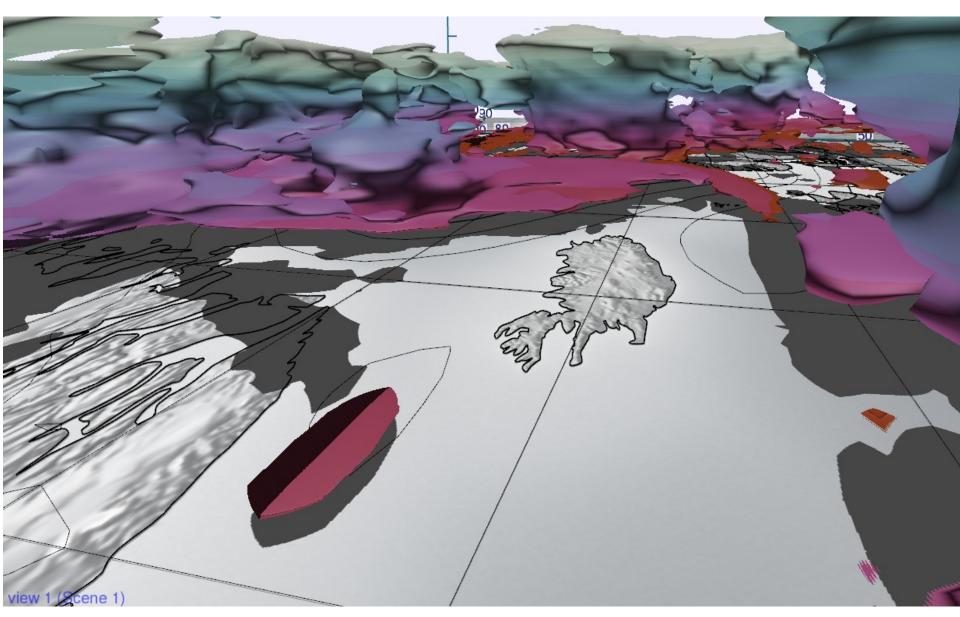




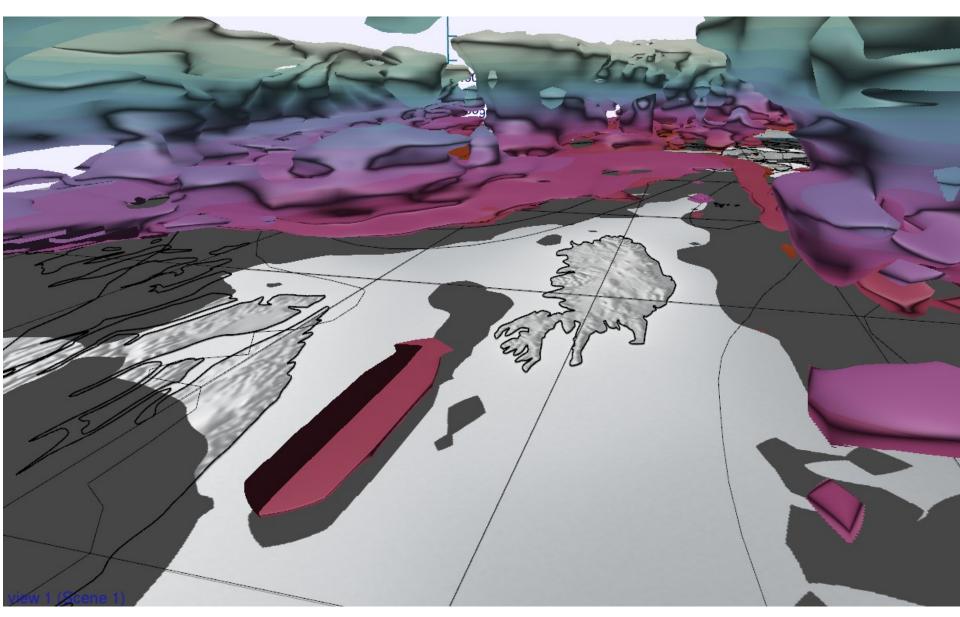
Cloudiness – tomorrow 00 UTC



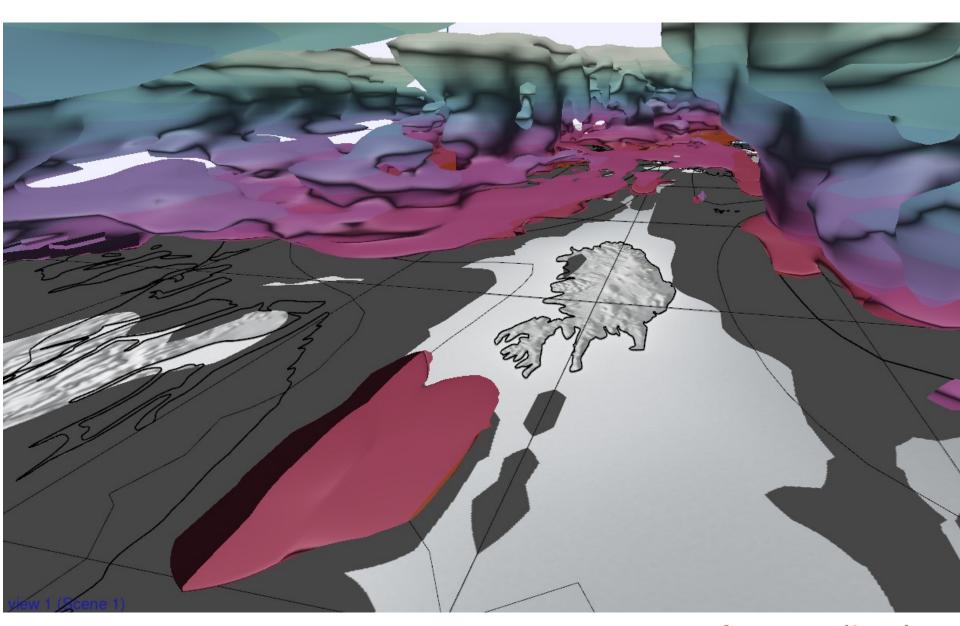
Cloudiness – tomorrow 06 UTC



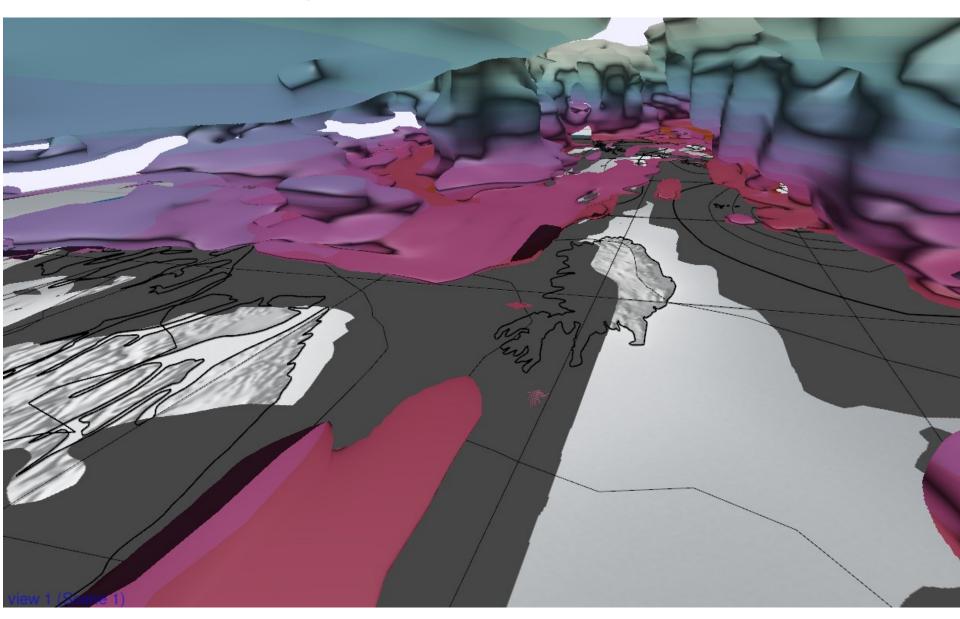
Cloudiness – tomorrow 12 UTC



Cloudiness – tomorrow 18 UTC



Cloudiness – Thursday 00 UTC



Aurora forecast: 6/9 very high

Summary

- Radiosonde IOP today and tomorrow
- Falcon calibration flight on Wednesday
- HALO down-day on Wednesday
- Falcon down-day on Thursday
- OPS Center down-day on Wednesday. No general planning meeting/weather discussion tomorrow.
- Possible HALO flight on Saturday into WCB inflow region
- Possible HALO/Falcon flights on Sunday into WCB outflow region