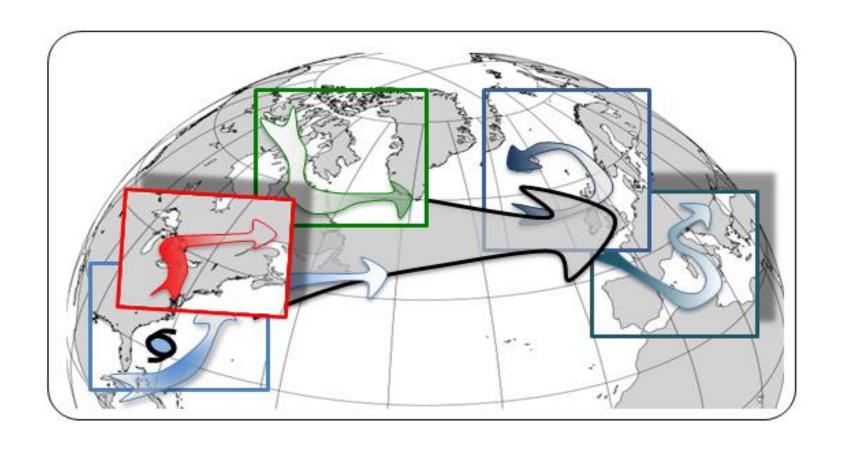
NAWDEX – General Planning Meeting

30 September 2016, Keflavik 11 UTC



NAWDEX – General Planning Meeting

30 September 2016, Keflavik 11 UTC

Key issues today

- 1. Confirmation of flight plans for Saturday HALO
- 2. Refinement of flight plans for Sunday HALO, FALCON, SAFIRE
- 3. Outlook next week

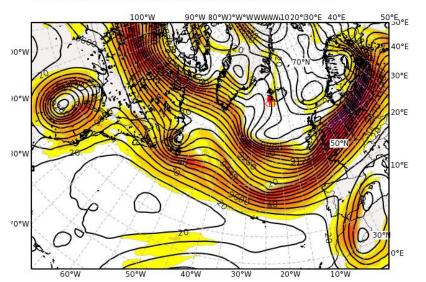
NAWDEX – General Planning Meeting

30 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)

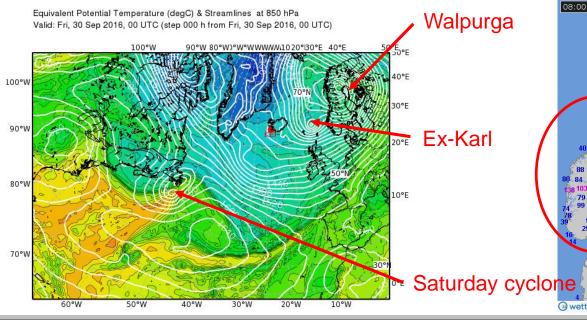
Analysis - 30 Sep 2016, 00 UTC

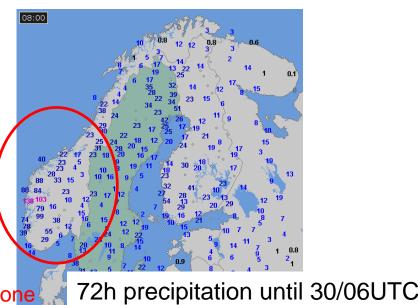
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Fri, 30 Sep 2016, 00 UTC (step 000 h from Fri, 30 Sep 2016, 00 UTC)



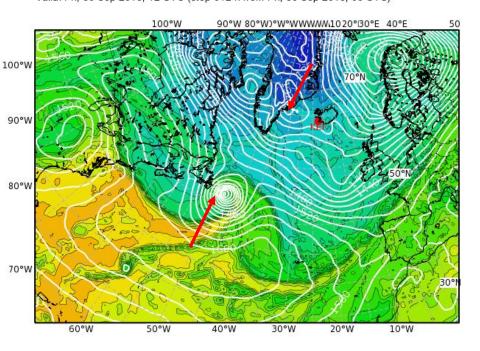
Z300, SAT THE850, RH700



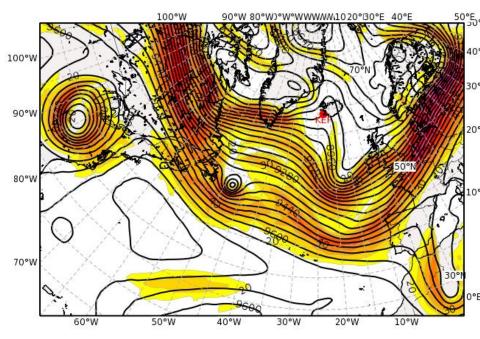




Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Fri, 30 Sep 2016, 12 UTC (step 012 h from Fri, 30 Sep 2016, 00 UTC)



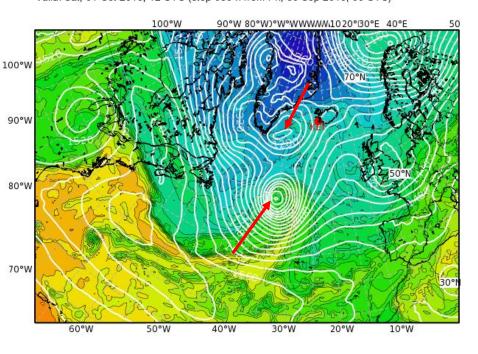
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Fri, 30 Sep 2016, 12 UTC (step 012 h from Fri, 30 Sep 2016, 00 UTC)



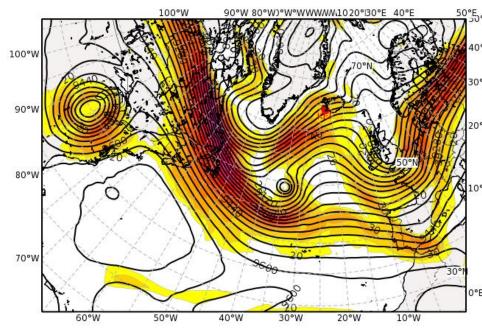
Saturday cyclone

Greenland lee cyclone

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Sat, 01 Oct 2016, 12 UTC (step 036 h from Fri, 30 Sep 2016, 00 UTC)



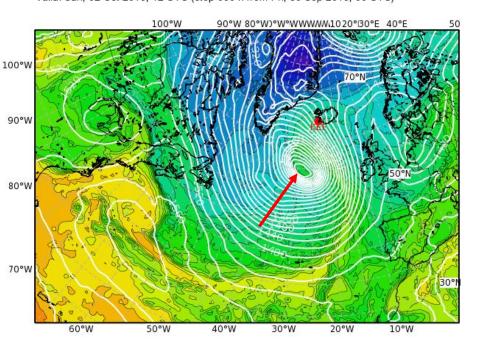
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Sat, 01 Oct 2016, 12 UTC (step 036 h from Fri, 30 Sep 2016, 00 UTC)



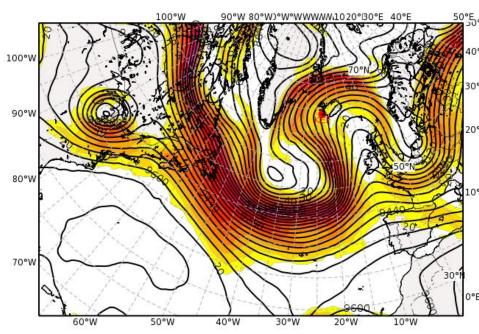
Saturday cyclone

Greenland lee cyclone

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Sun, 02 Oct 2016, 12 UTC (step 060 h from Fri, 30 Sep 2016, 00 UTC)



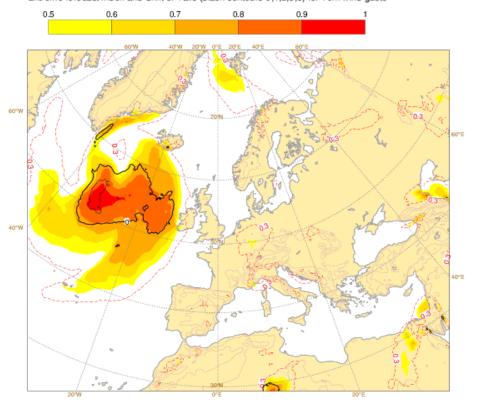
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Sun, 02 Oct 2016, 12 UTC (step 060 h from Fri, 30 Sep 2016, 00 UTC)

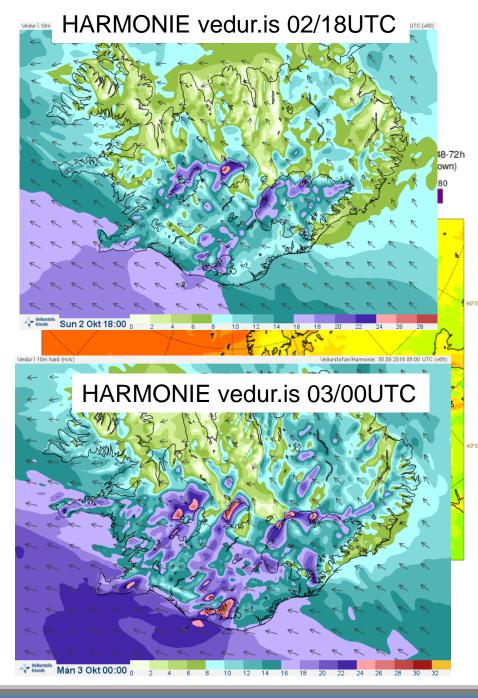


Saturday cyclone

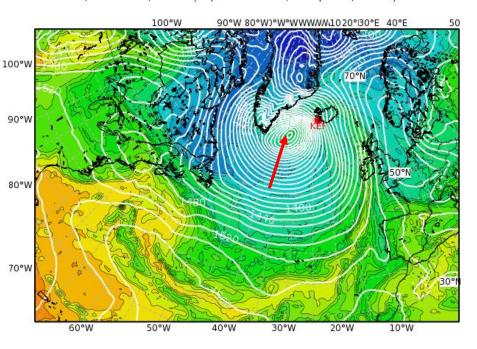
EFI gusts for Sun (BT: 30/00z)

Fri 30 Sep 2016 00UTC ©ECMWF t+48-72h VT: Sun 02 Oct 2016 00UTC - Mon 03 Oct 2016 00UTC Extreme forecast index and Shift of Tails (black contours 0,1,2,5,8) for 10m wind gusts

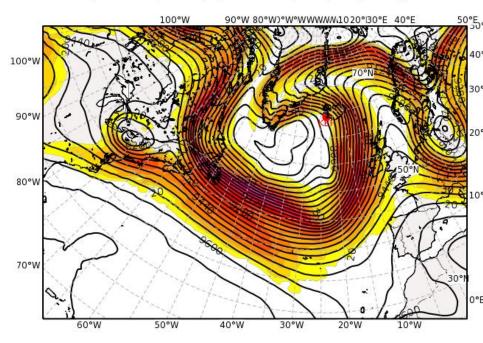




Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Mon, 03 Oct 2016, 12 UTC (step 084 h from Fri, 30 Sep 2016, 00 UTC)



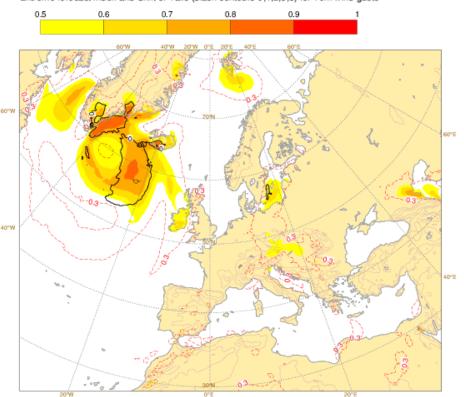
Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Mon, 03 Oct 2016, 12 UTC (step 084 h from Fri, 30 Sep 2016, 00 UTC)

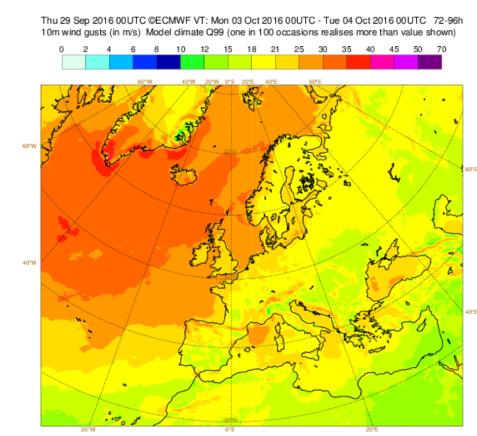


Saturday cyclone

EFI gusts for Mon (BT: 30/00z)

Fri 30 Sep 2016 00UTC ©ECMWF t+72-96h VT: Mon 03 Oct 2016 00UTC - Tue 04 Oct 2016 00UTC Extreme forecast index and Shift of Tails (black contours 0,1,2,5,8) for 10m wind gusts



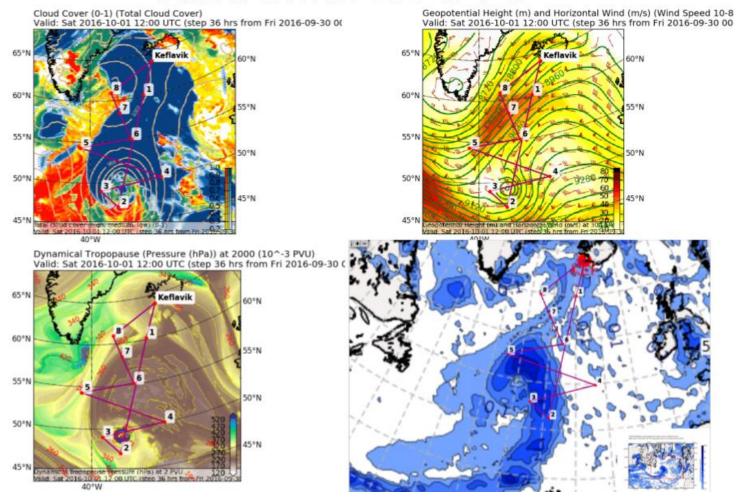


Saturday 1 October IOP6

HALO flight

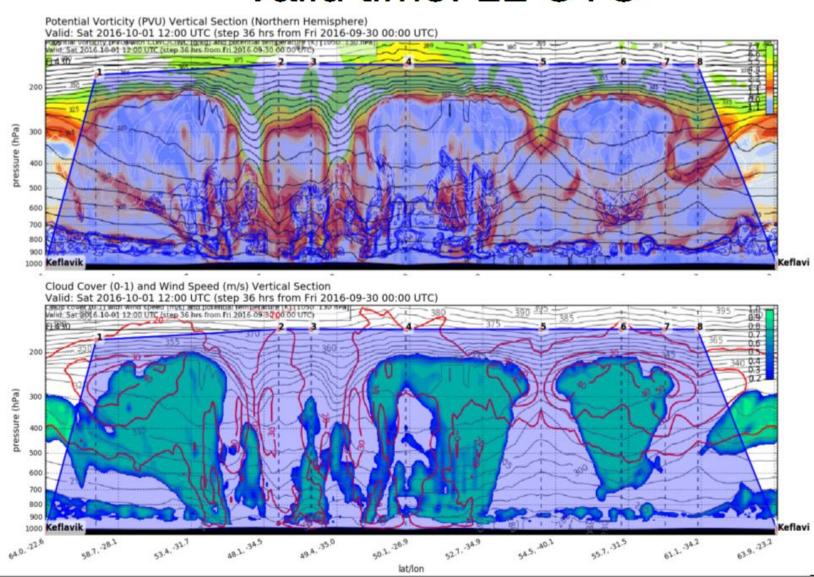
Saturday 1 October IOP6

Flight Plan for Sat (1. October) Valid time: 12 UTC



Saturday 1 October IOP6

Valid time: 12 UTC

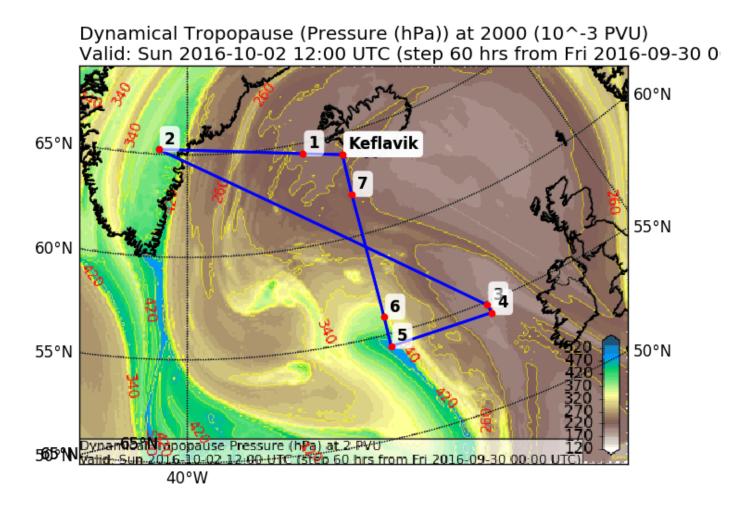


Sunday 2 October IOP7

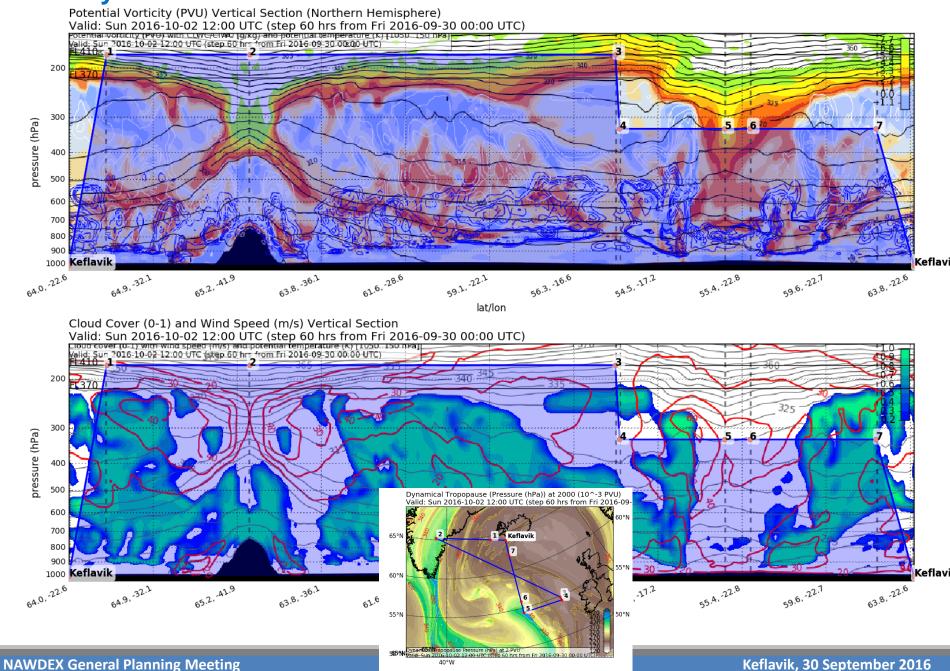
HALO, FALCON, SAFIRE flights

Sunday 2 October IOP7: HALO

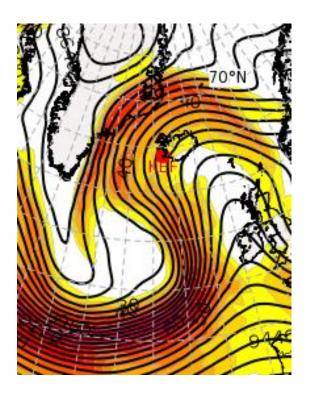
Objective: Sample the WCB outflow associated with the rapid cyclogenesis observed in IOP6 on Sat

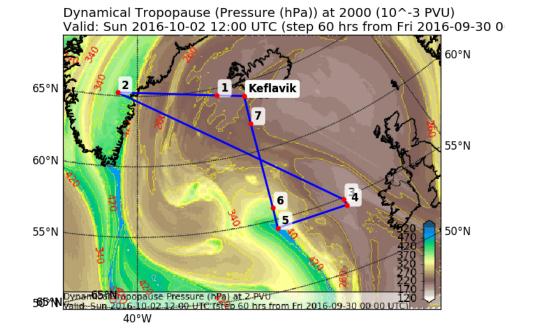


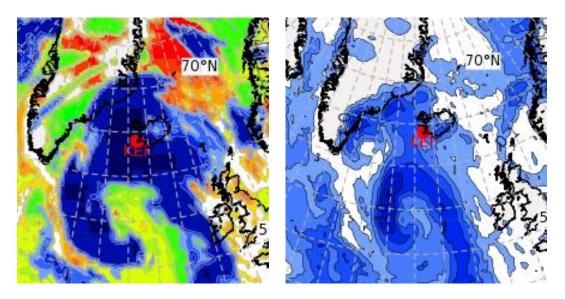
Sunday 2 October IOP7: HALO



Sunday 2 October IOP7



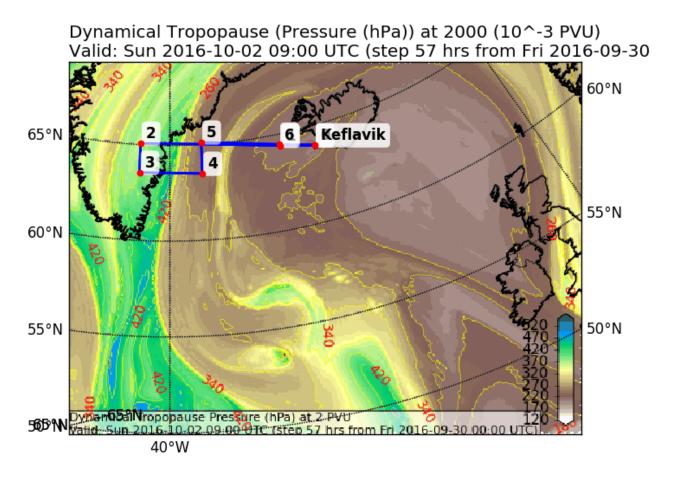




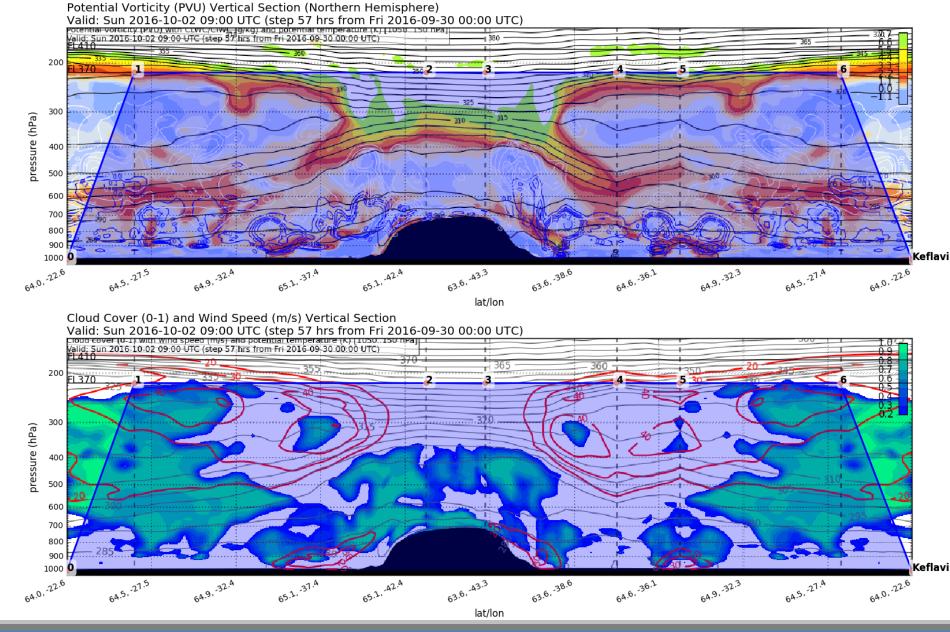
Z300, clouds, precipitation Sun 02/12Z BT 30/00Z

IOP7: Falcon flight Sunday 2 Oct

Sunday 2 October IOP7: Falcon

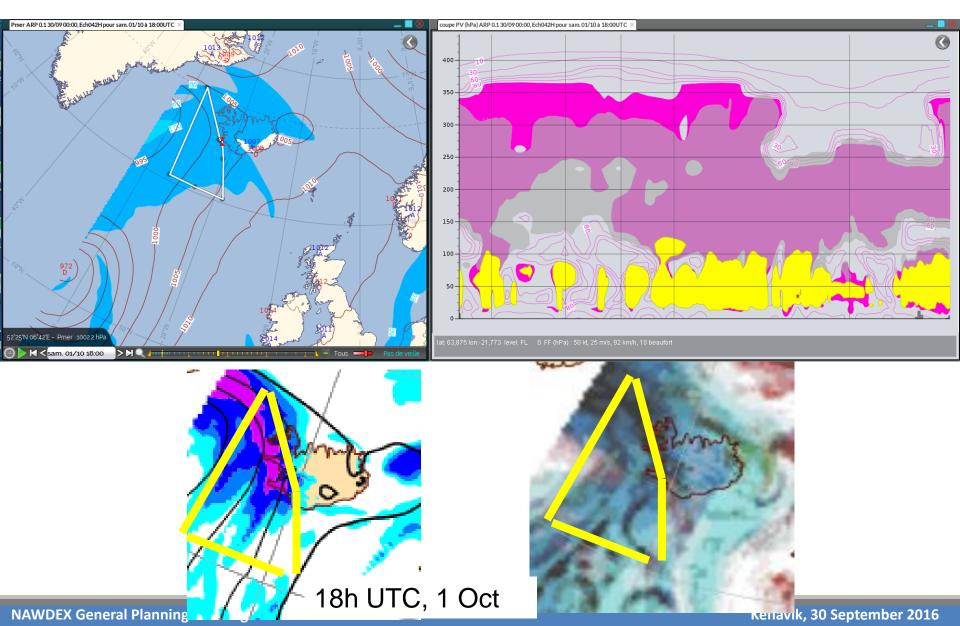


Sunday 2 October IOP7: Falcon

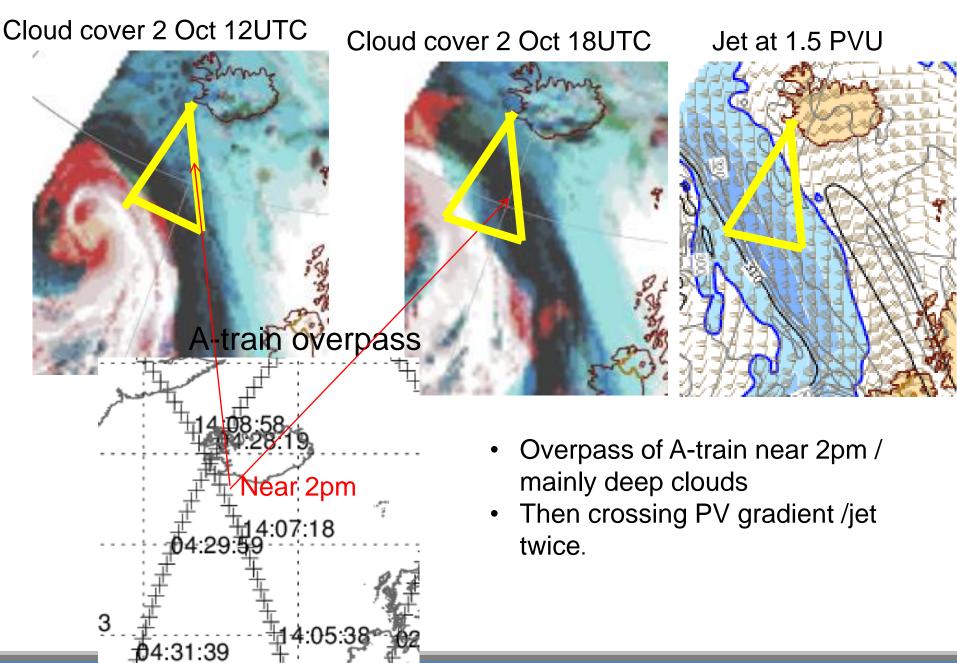


IOP7: SAFIRE flight Sunday 2 Oct

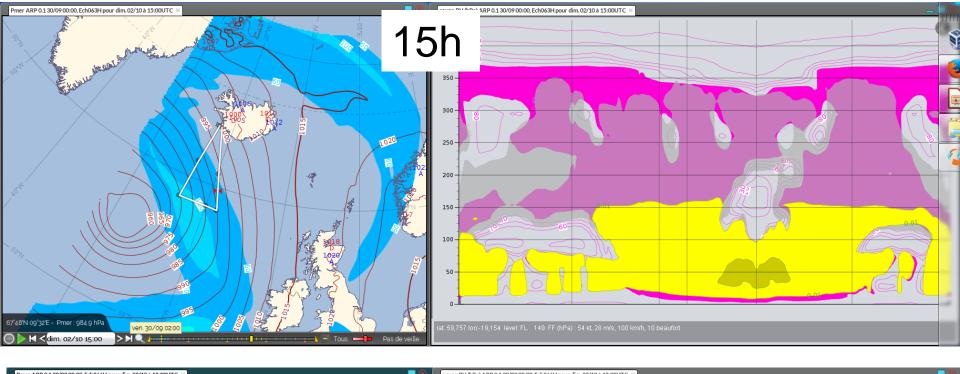
SAFIRE-French Falco:Test flight planned On Saturday between 15 UTC and 18 UTC

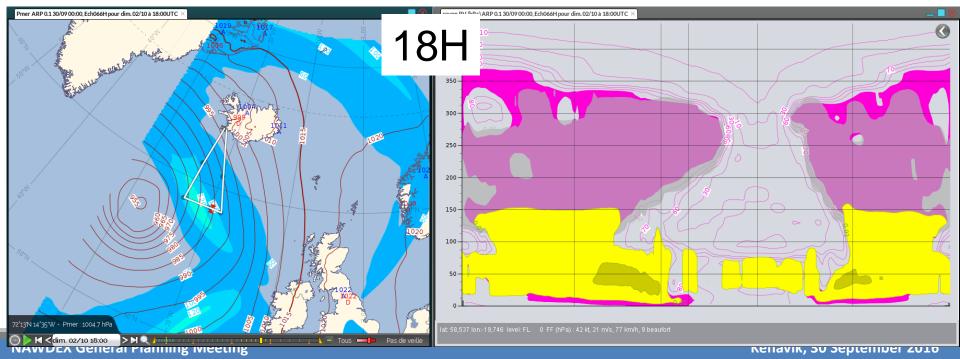


Second flight of SAFIRE French Falcon on Sunday afternoon



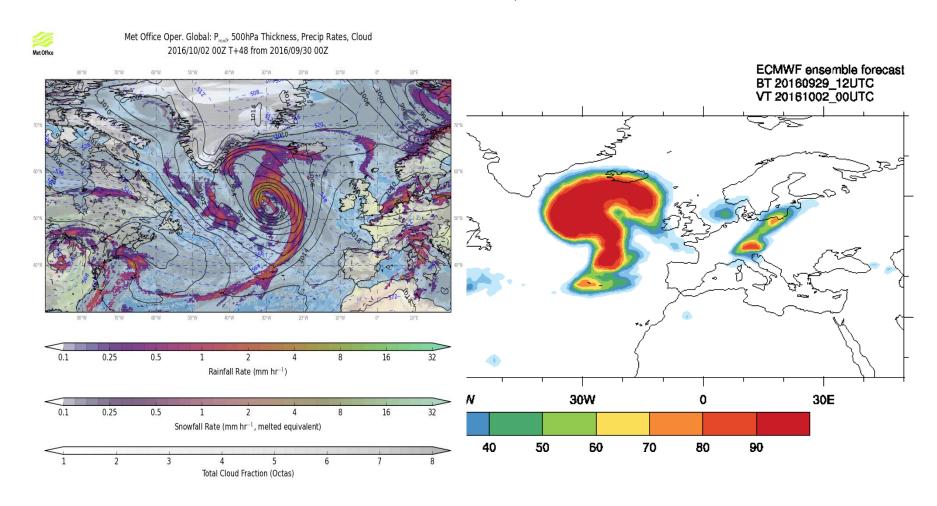
NAWDEX Ger





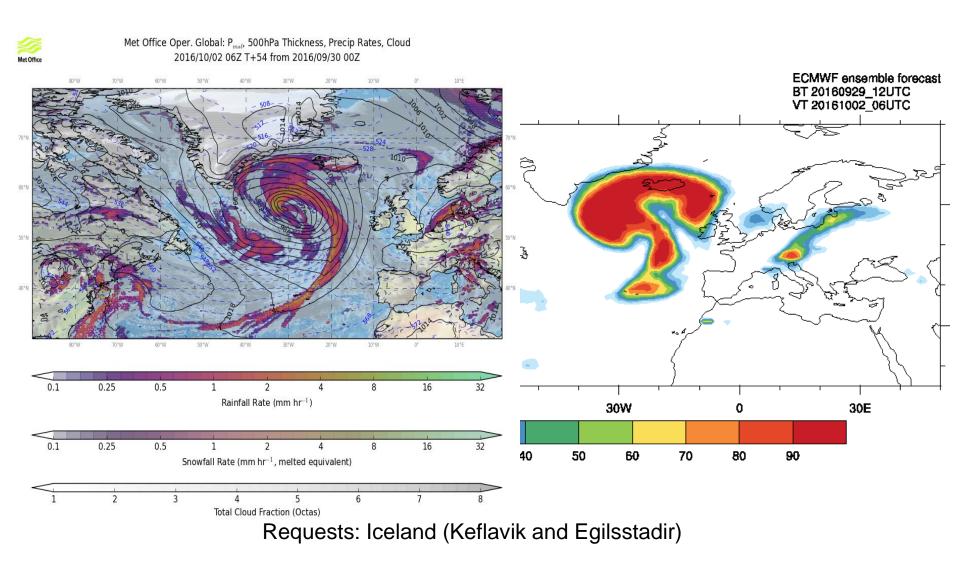
Radiosoundings

02 10 2016, 00Z



Regular Sondes: Iceland (Keflavik and Egilsstadir), UK + Greenland sites Requests: Azores

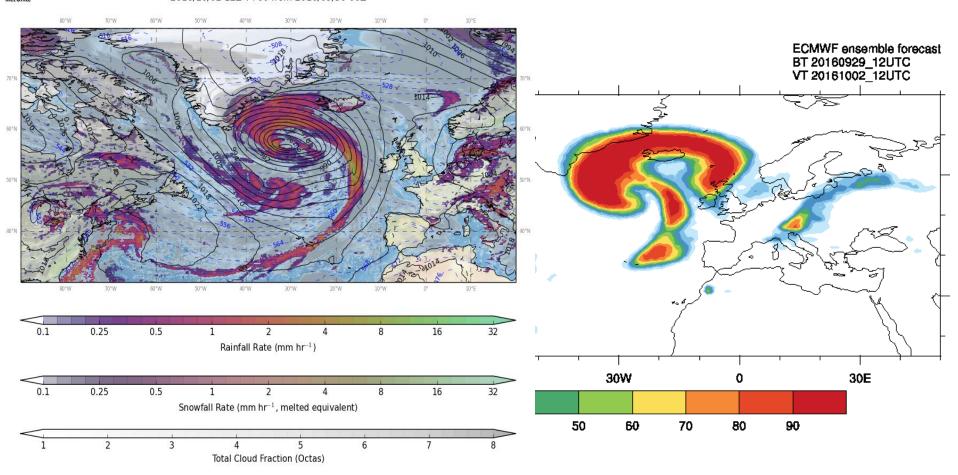
02 10 2016, 06Z



02 10 2016, 12Z



Met Office Oper. Global: P_{mslt} 500hPa Thickness, Precip Rates, Cloud 2016/10/02 12Z T+60 from 2016/09/30 00Z



Regular Sondes: Greendland stations, Keflavik, Azores, UK (Lerwick and Cambourne)

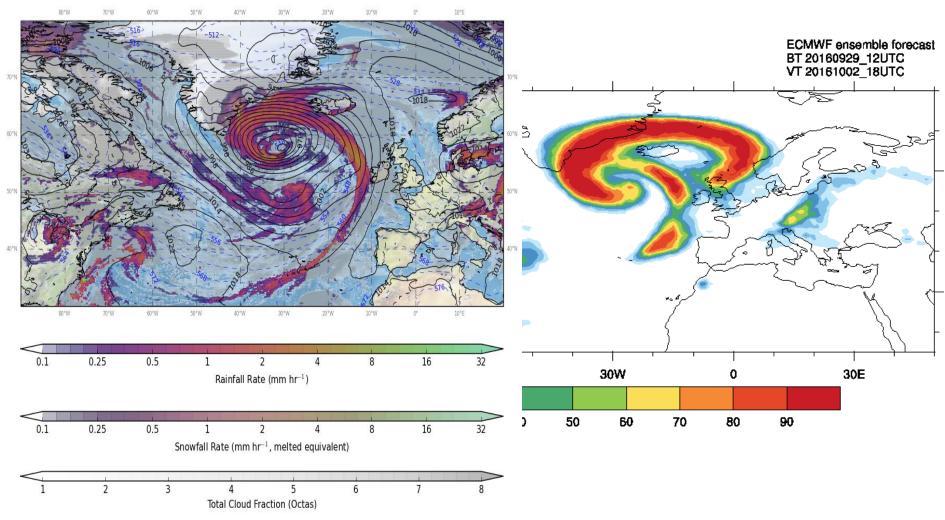
Requests: Eglisstadir

Total Requests: 6

02 10 2016, 18Z



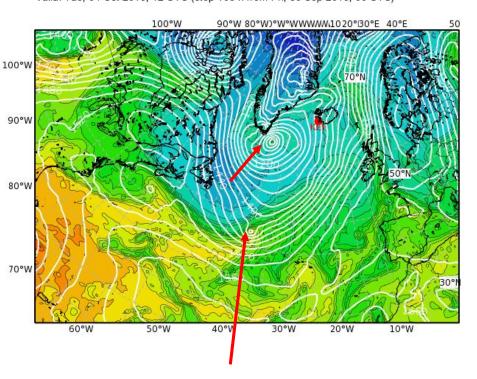
Met Office Oper. Global: P_{msi}, 500hPa Thickness, Precip Rates, Cloud 2016/10/02 18Z T+66 from 2016/09/30 00Z



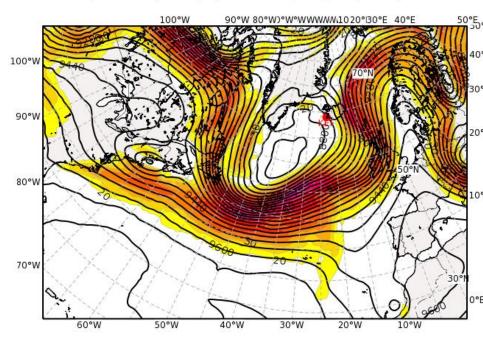
Sondes requested: Greenland sites

Request: Jan Mayen, Keflavik

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Tue, 04 Oct 2016, 12 UTC (step 108 h from Fri, 30 Sep 2016, 00 UTC)

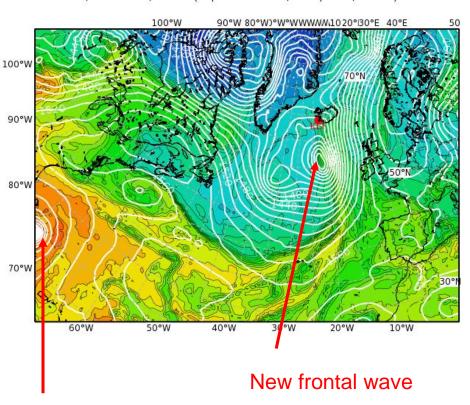


Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Tue, 04 Oct 2016, 12 UTC (step 108 h from Fri, 30 Sep 2016, 00 UTC)

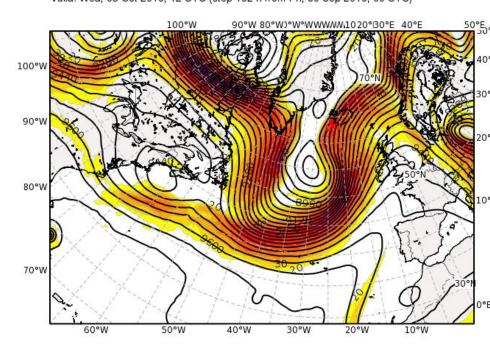


New frontal wave

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Wed, 05 Oct 2016, 12 UTC (step 132 h from Fri, 30 Sep 2016, 00 UTC)

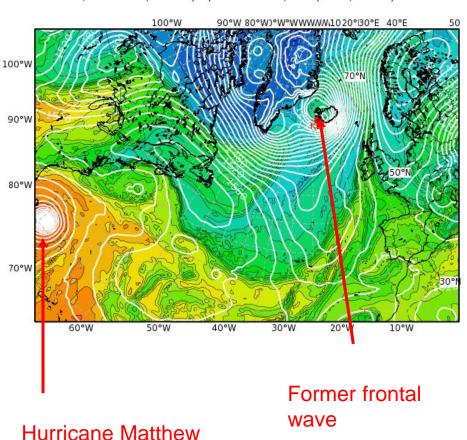


Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Wed, 05 Oct 2016, 12 UTC (step 132 h from Fri, 30 Sep 2016, 00 UTC)

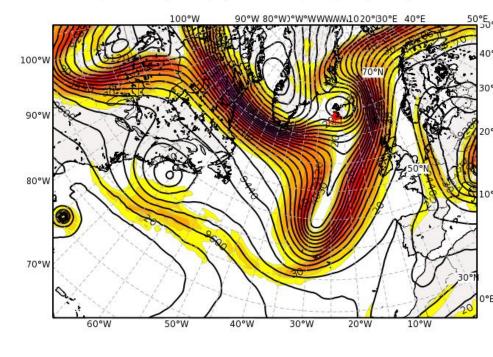


Hurricane Matthew

Equivalent Potential Temperature (degC) & Streamlines at 850 hPa Valid: Thu, 06 Oct 2016, 12 UTC (step 156 h from Fri, 30 Sep 2016, 00 UTC)



Geopotential Height (m) & Horizontal Wind (m/s) at 300 hPa Valid: Thu, 06 Oct 2016, 12 UTC (step 156 h from Fri, 30 Sep 2016, 00 UTC)



Summary plans

- Saturday 1 October IOP6
 - HALO Tropopause structure in WCB regions, cut-off reabsorption; SAT overpass; no dropsondes
- Sunday 2 October IOP7
 - HALO and FALCON and SAFIRE Tropopause structure, WCB outflow/ascent regions; 25 HALO dropsondes
 - SAFIRE afternoon A-Train overpass
- Outlook Monday Thursday :
 - Monday cyclone near Iceland, FALCON?
 - New frontal wave cyclone within reach Tue-Thu