

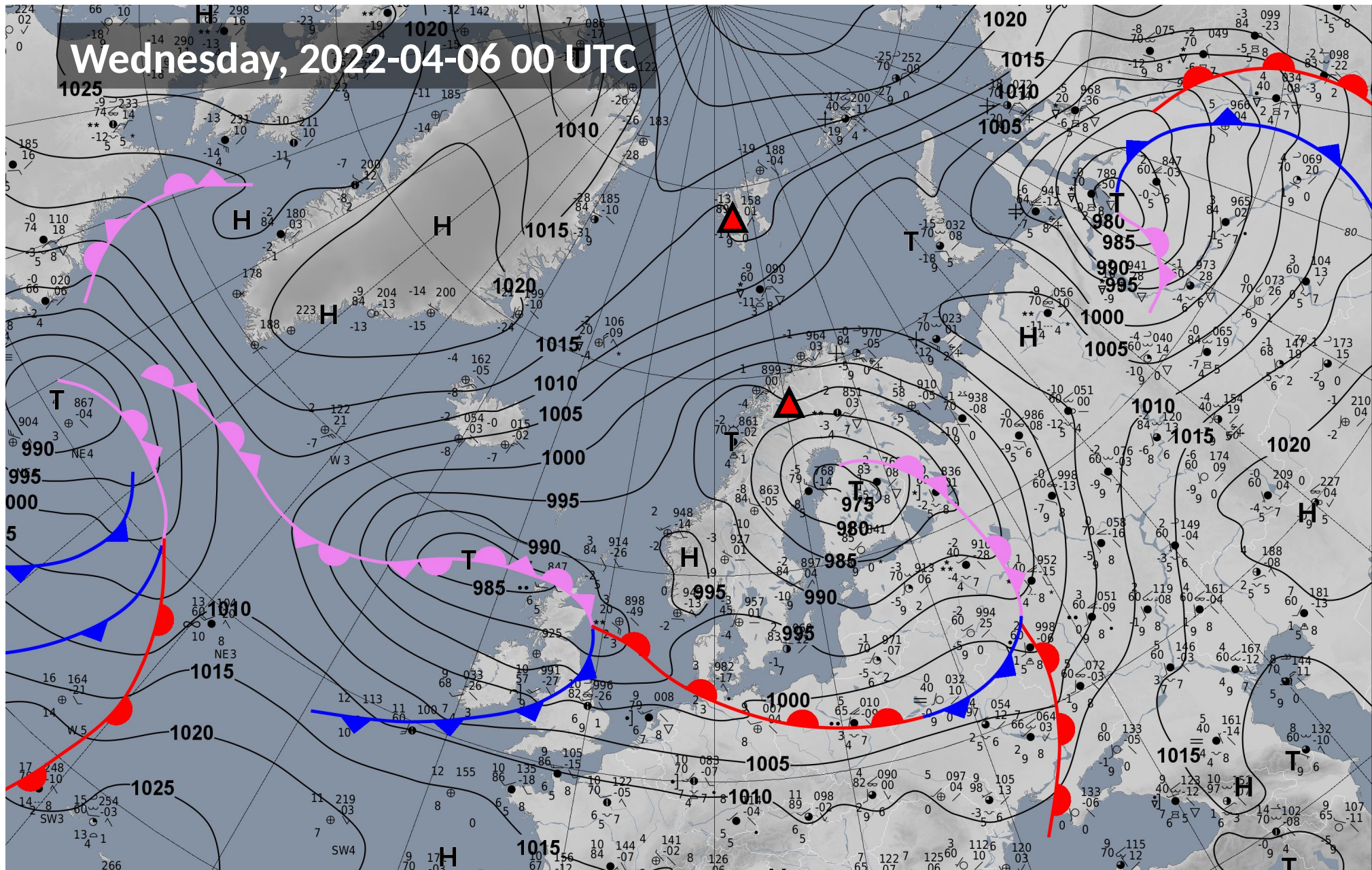
Weather briefing HALO-(AC)³

Wednesday, 2022-04-06, 17:00 LT

Surface Analysis

Wednesday, 2022-04-06 12 UTC
DWD

Wednesday, 2022-04-06 00 UTC



Surface wind development and precipitation

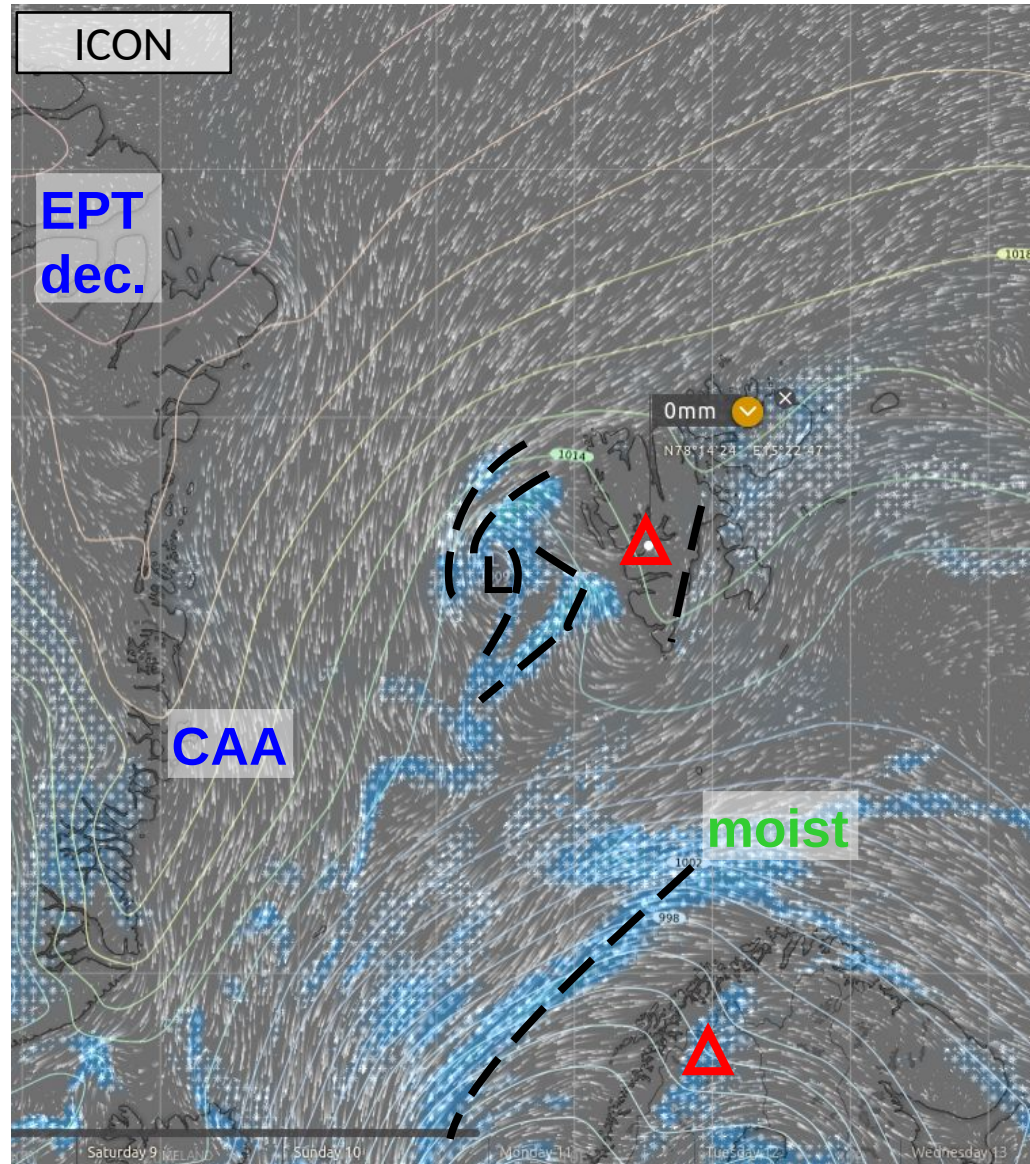
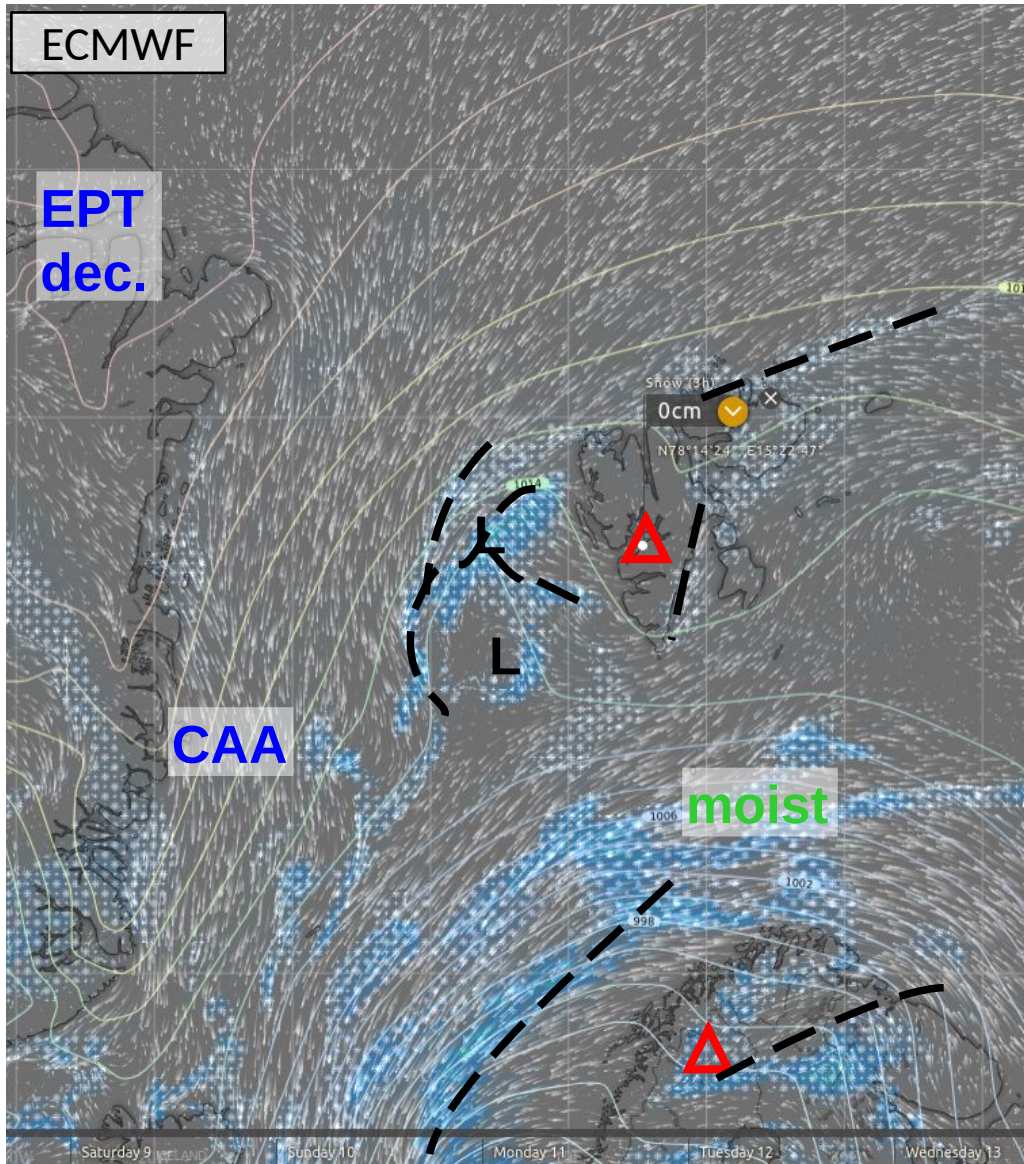
2022-04-06 00 UTC: 36 – 132h

ECMWF & ICON

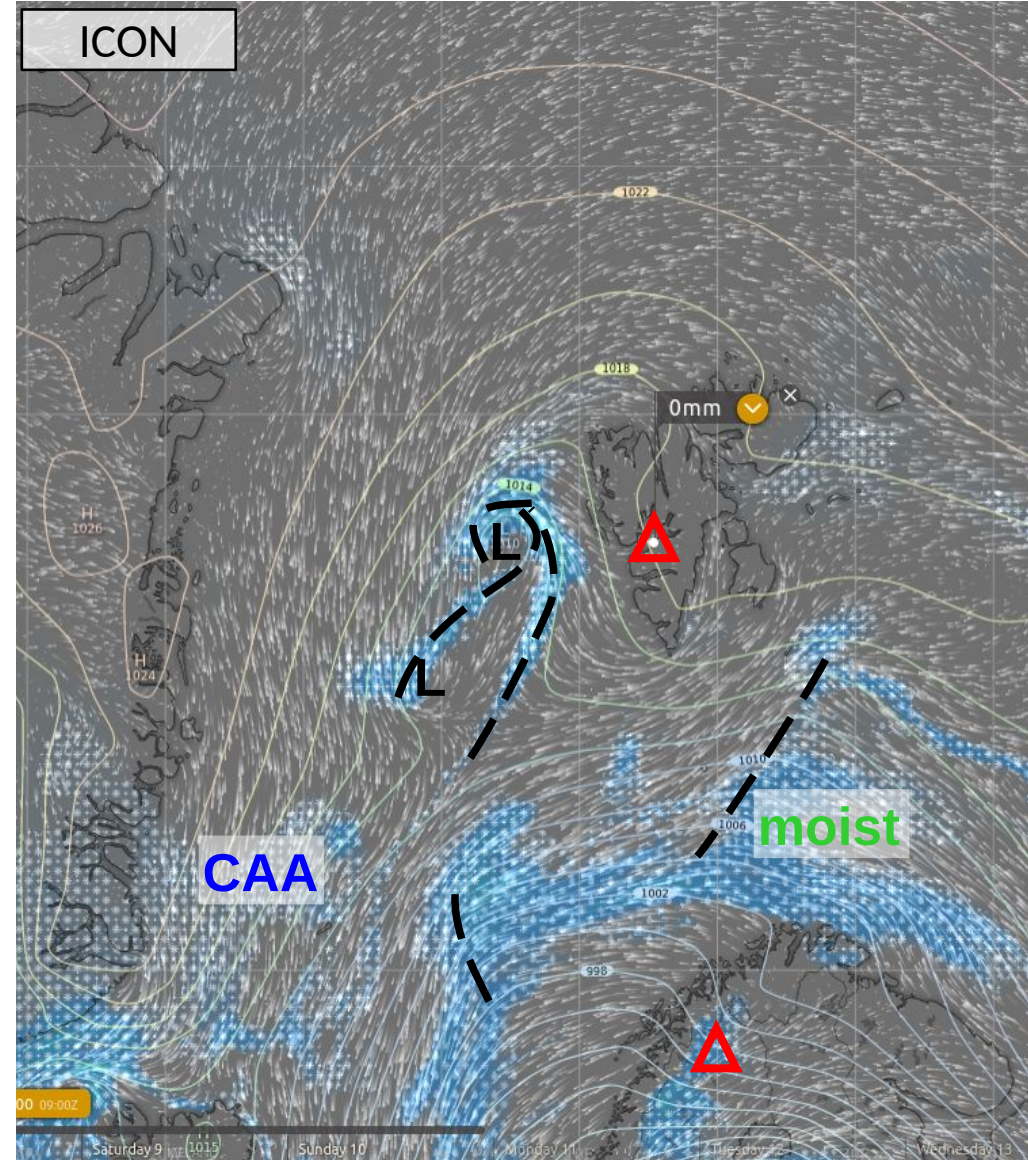
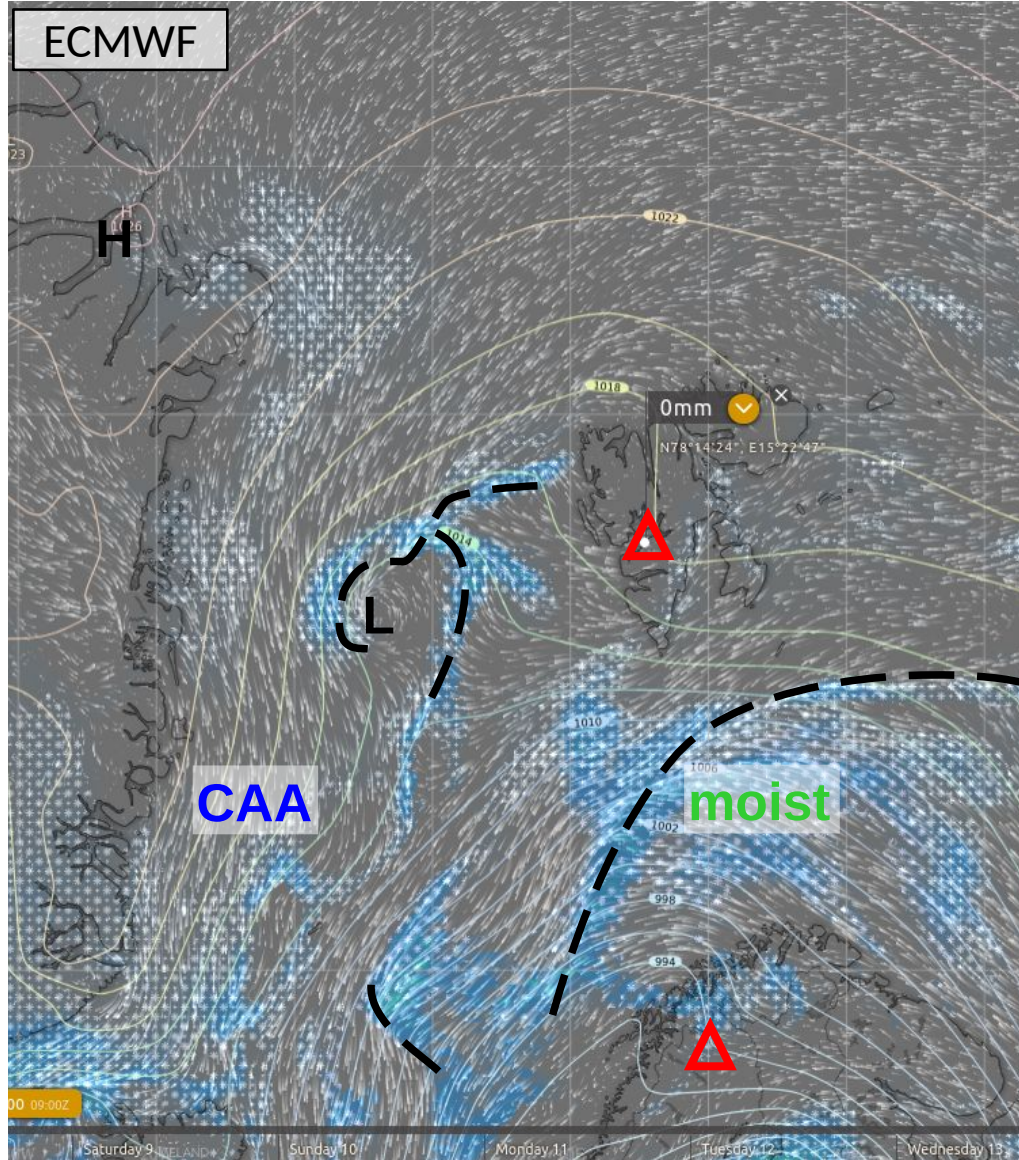
CAA: Cold Air Advection

WAA: Warm Air Advection

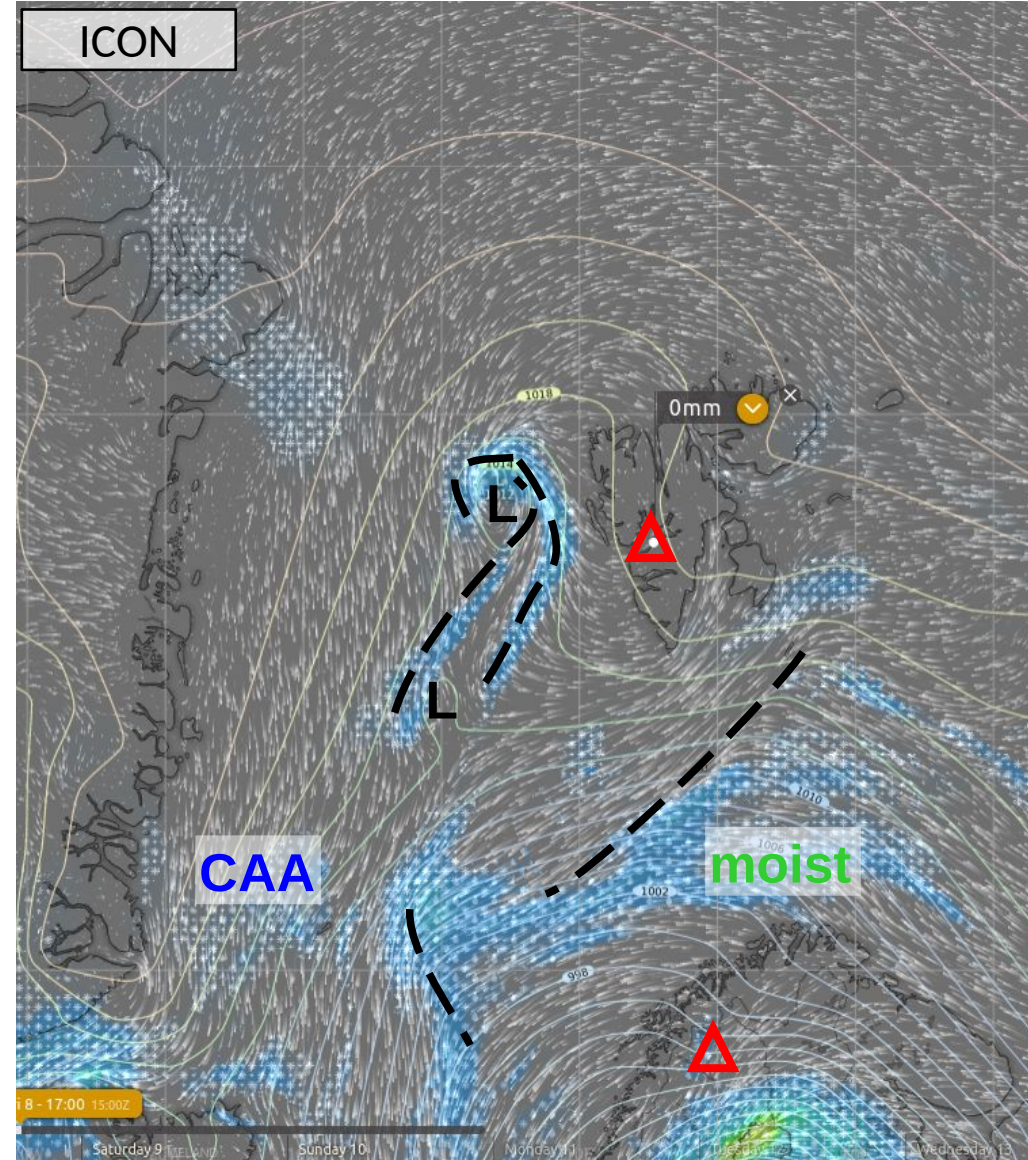
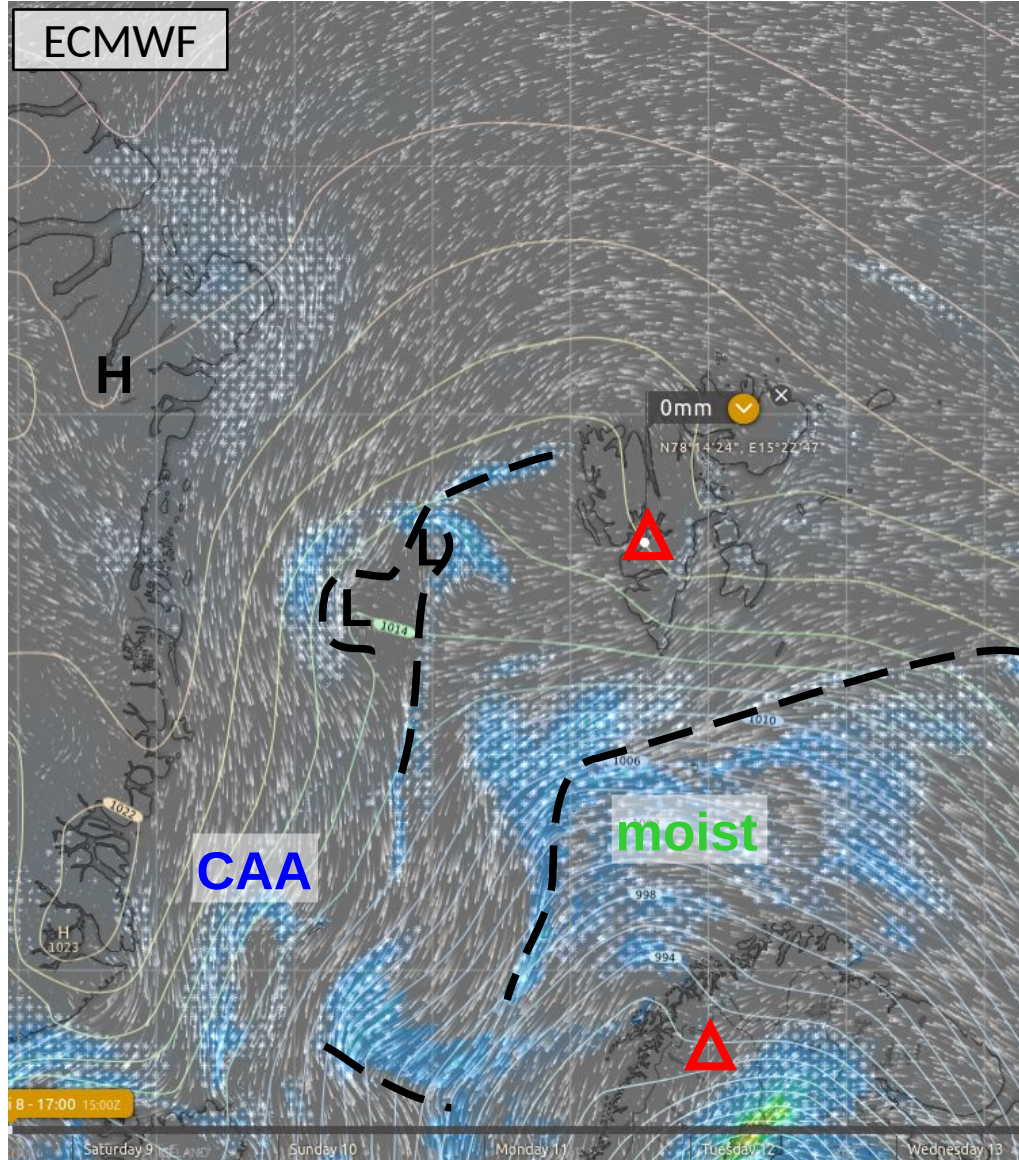
Thursday, 2022-04-07 12 UTC (+36h)



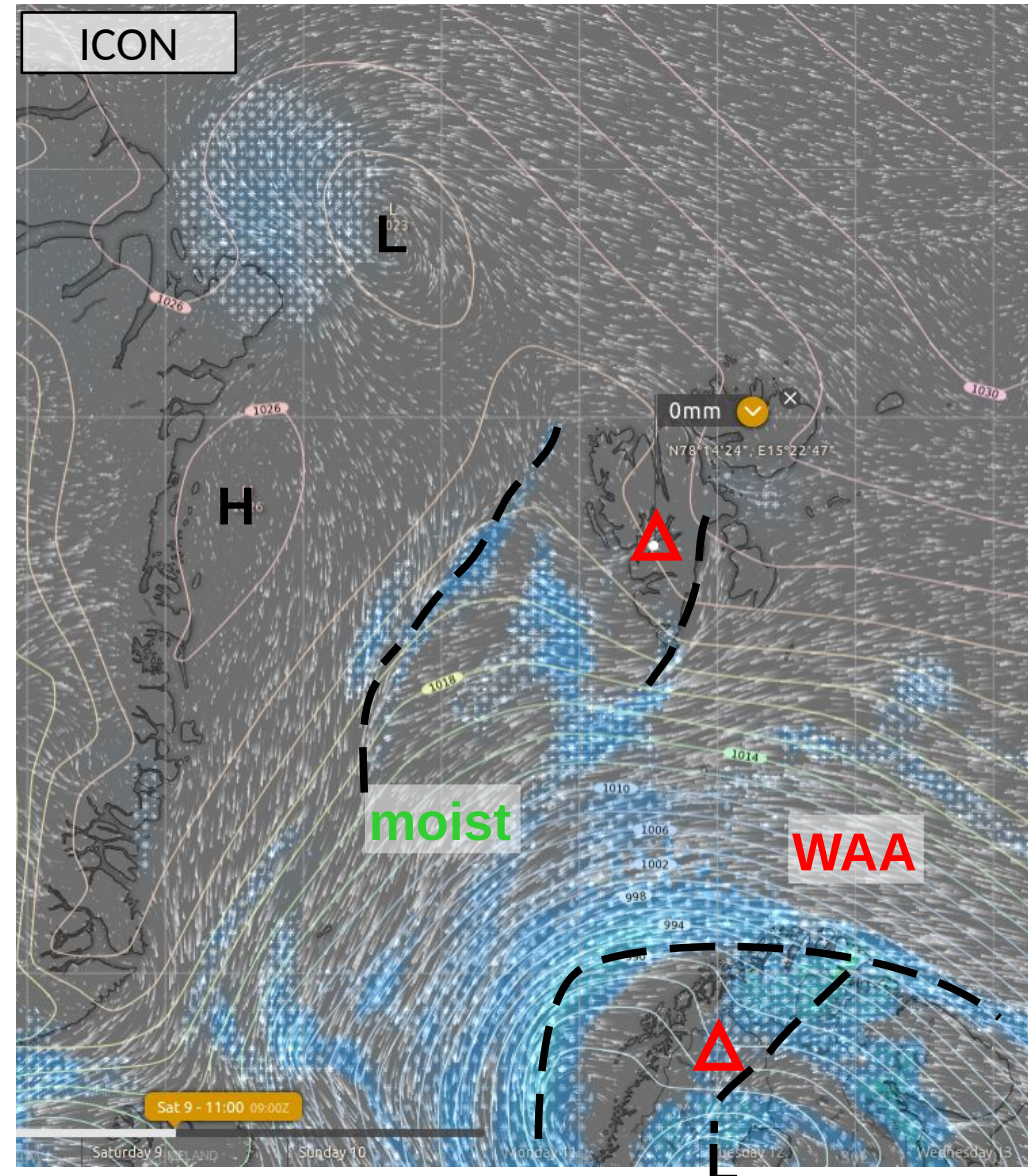
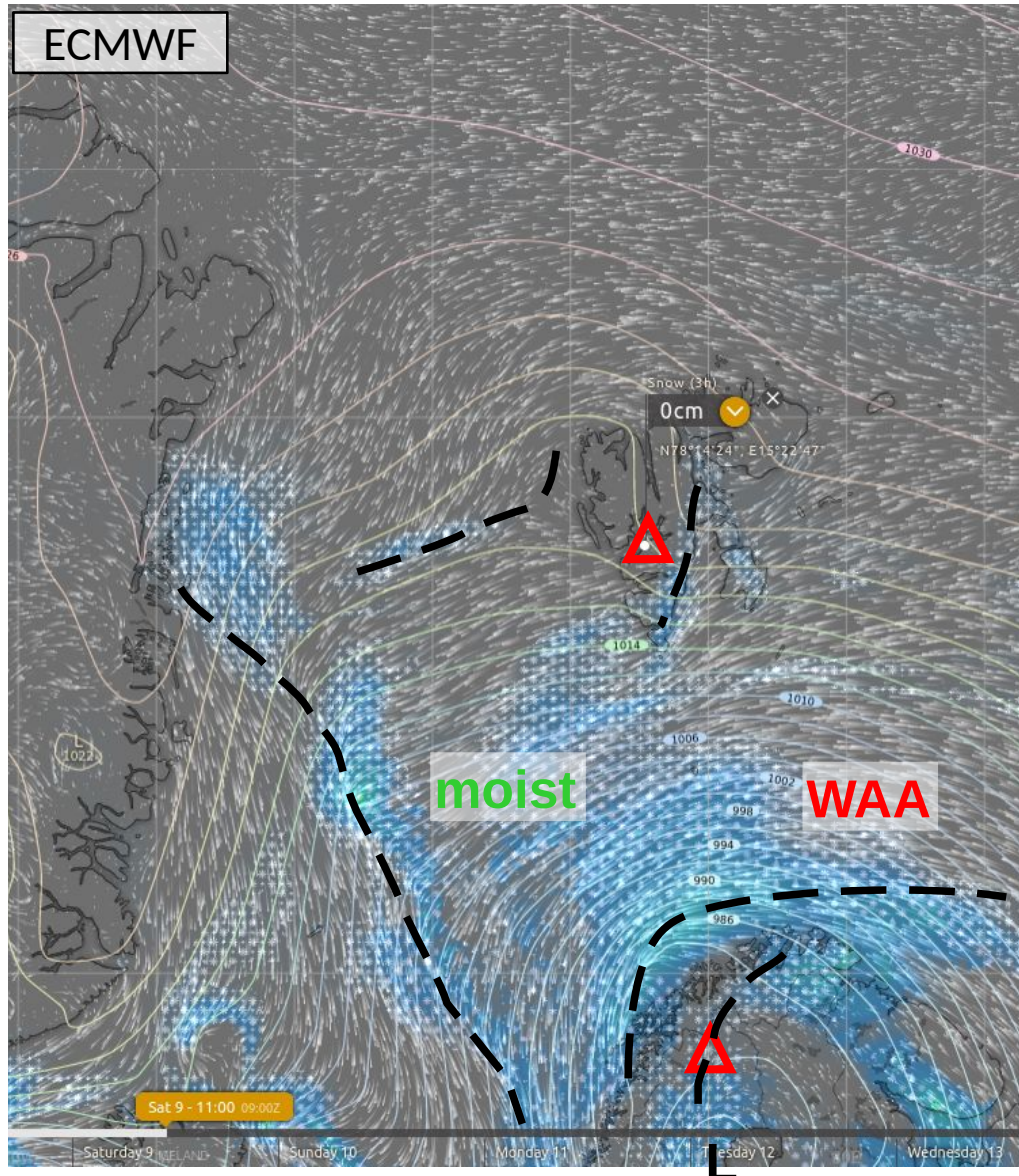
Friday, 2022-04-08 09 UTC (+57h)



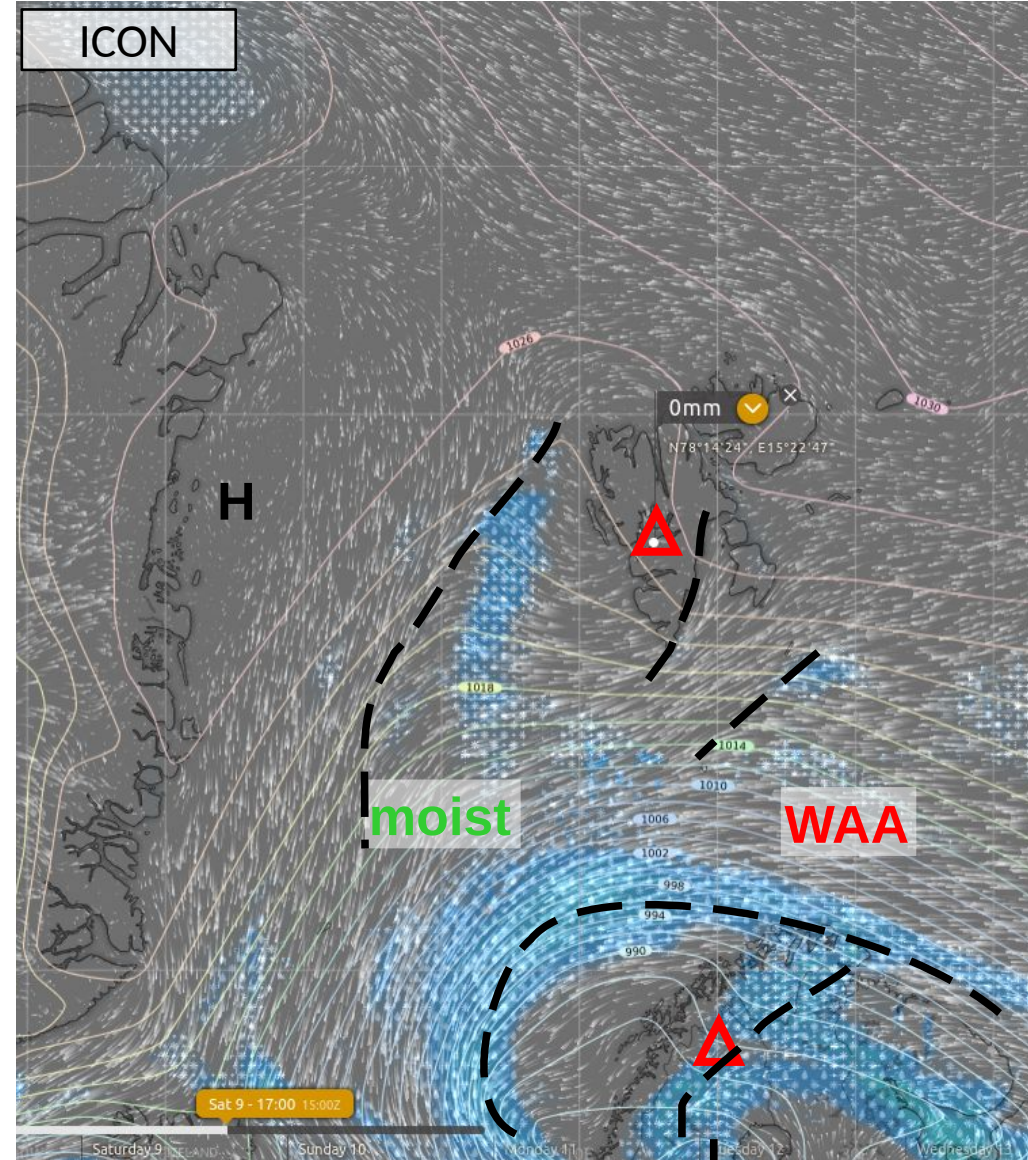
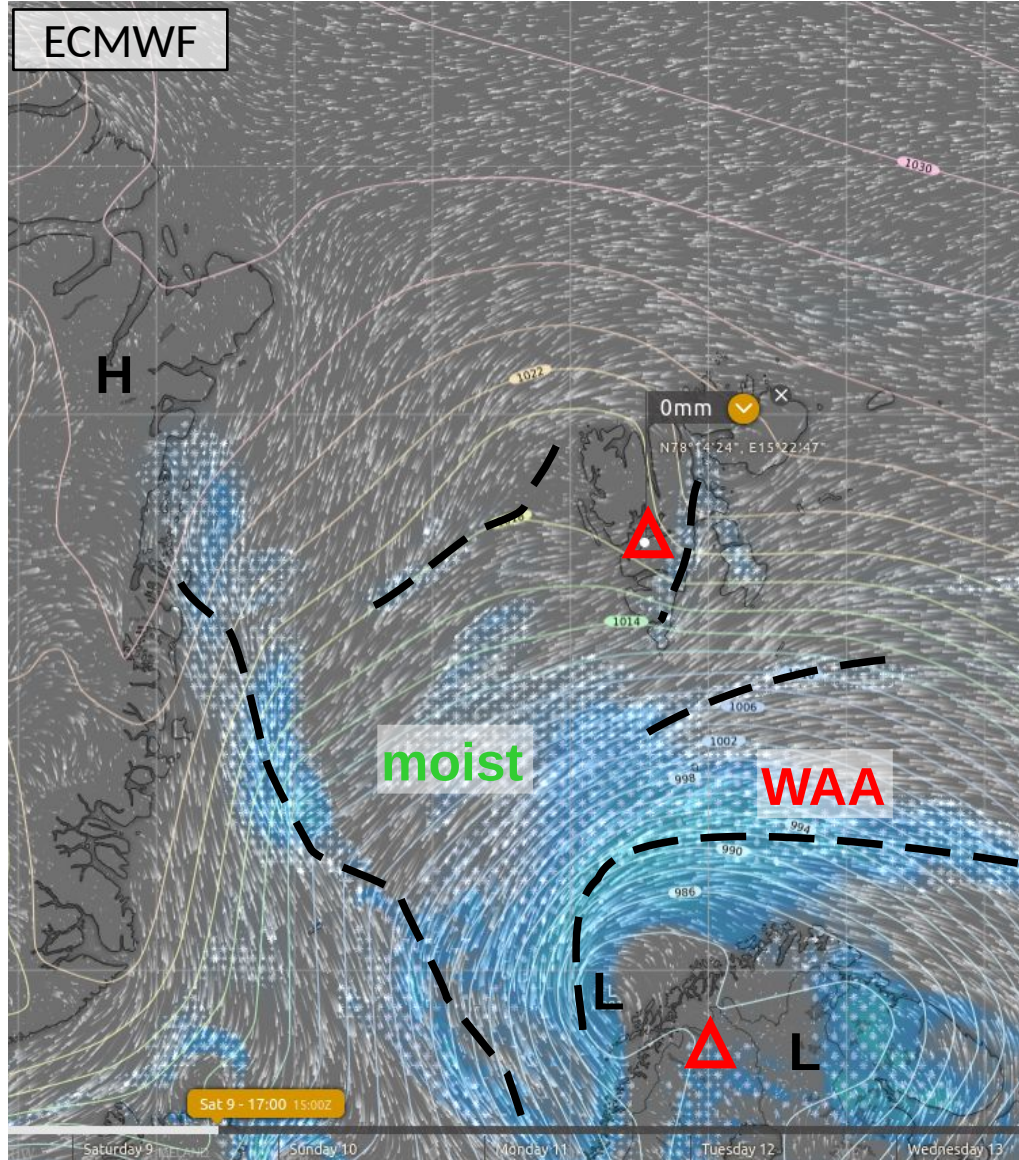
Friday, 2022-04-08 15 UTC (+63h)



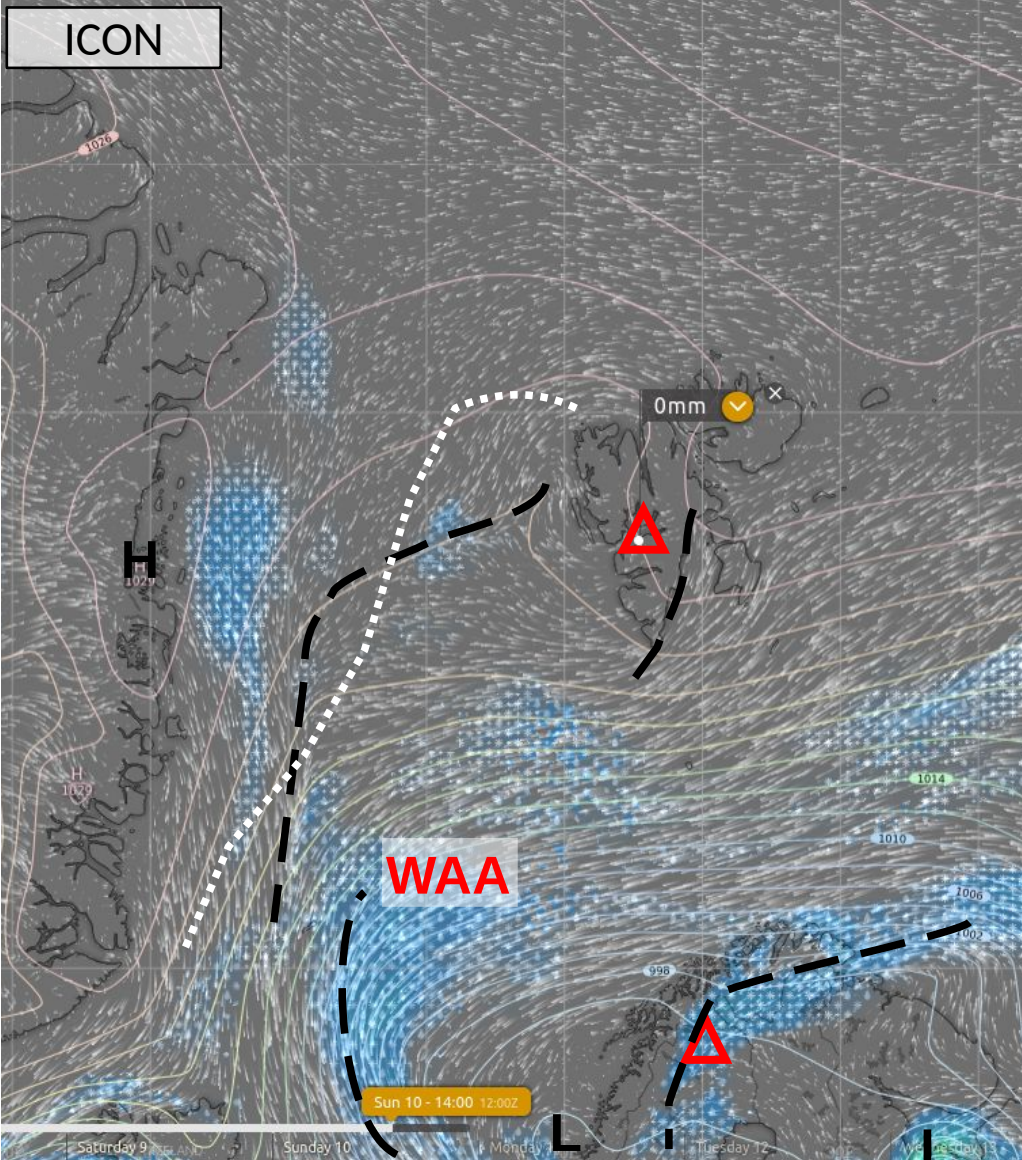
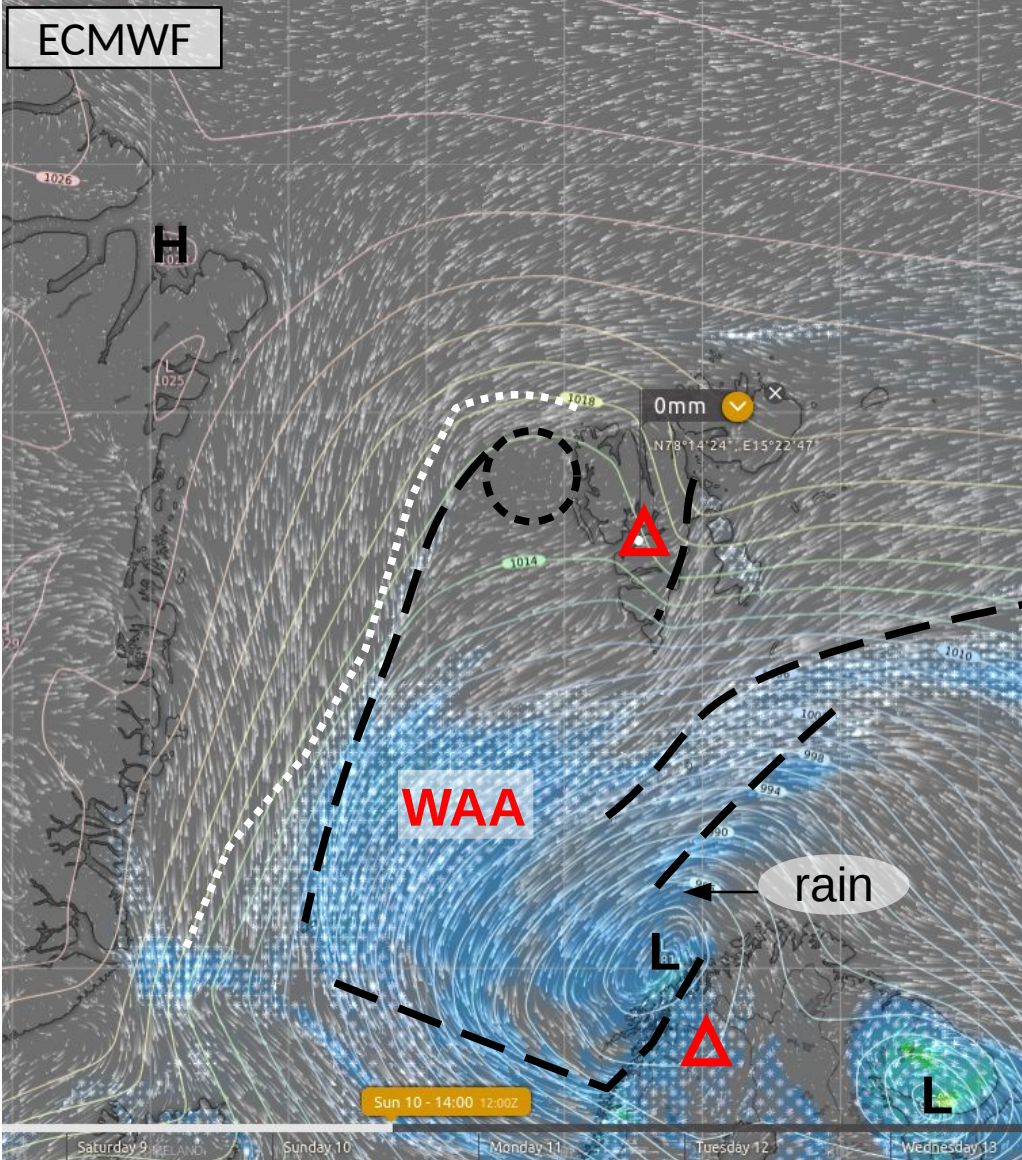
Saturday, 2022-04-09 09 UTC (+81h)



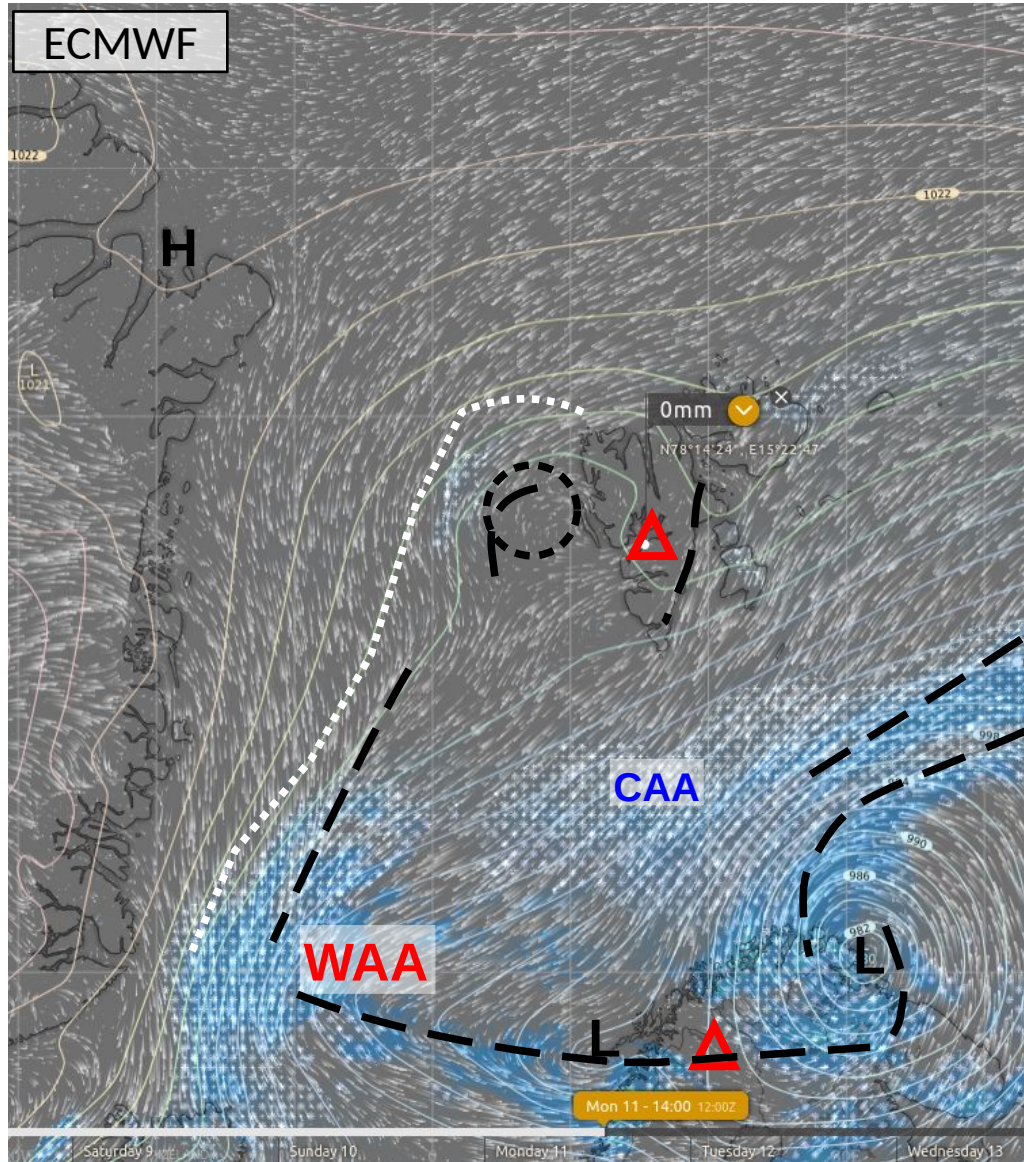
Saturday, 2022-04-09 15 UTC (+87h)



Sunday, 2022-04-10 12 UTC (+108h)



Monday, 2022-04-04 12 UTC (+132h)

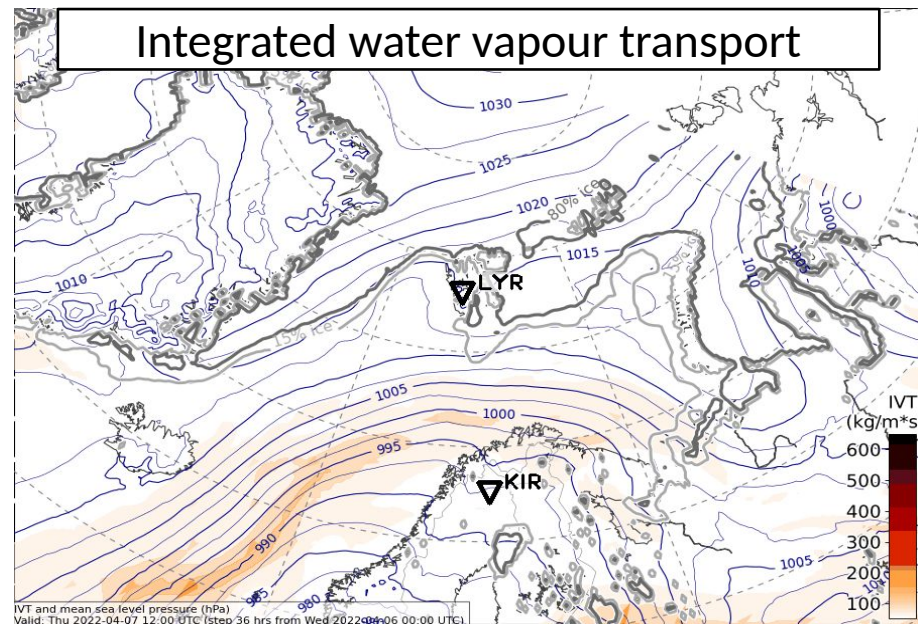
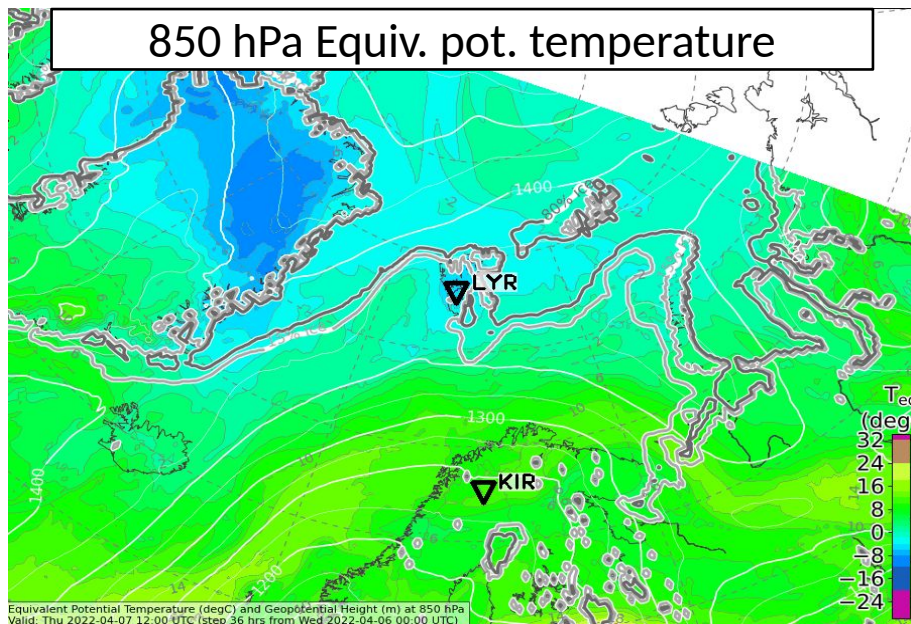
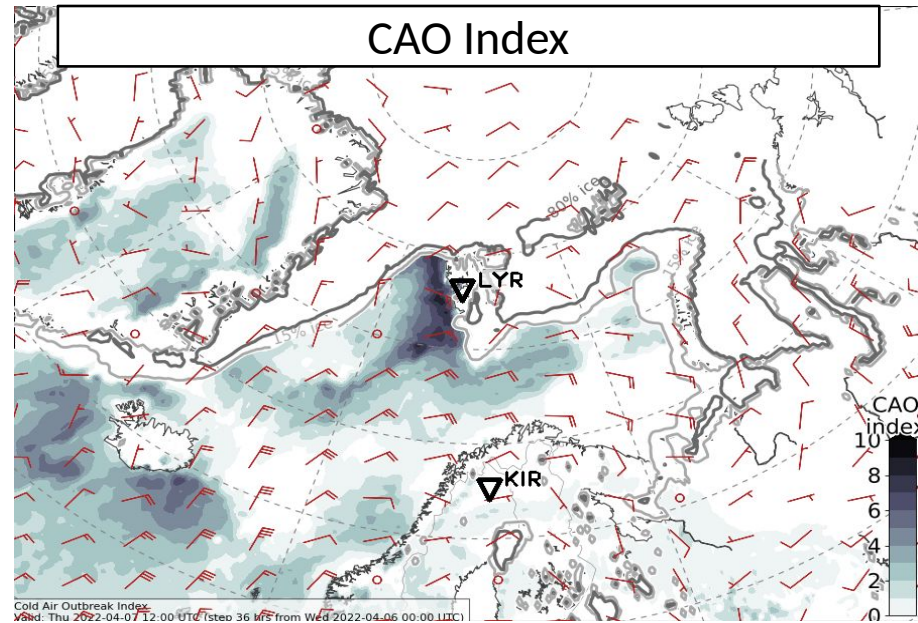
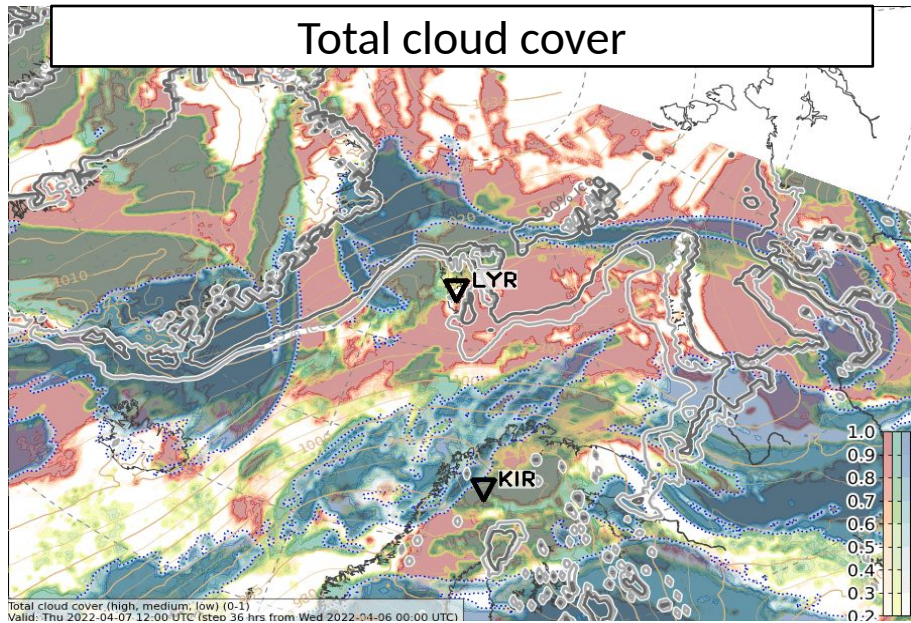


Cloud cover, CAO index, Airmasses, IVT

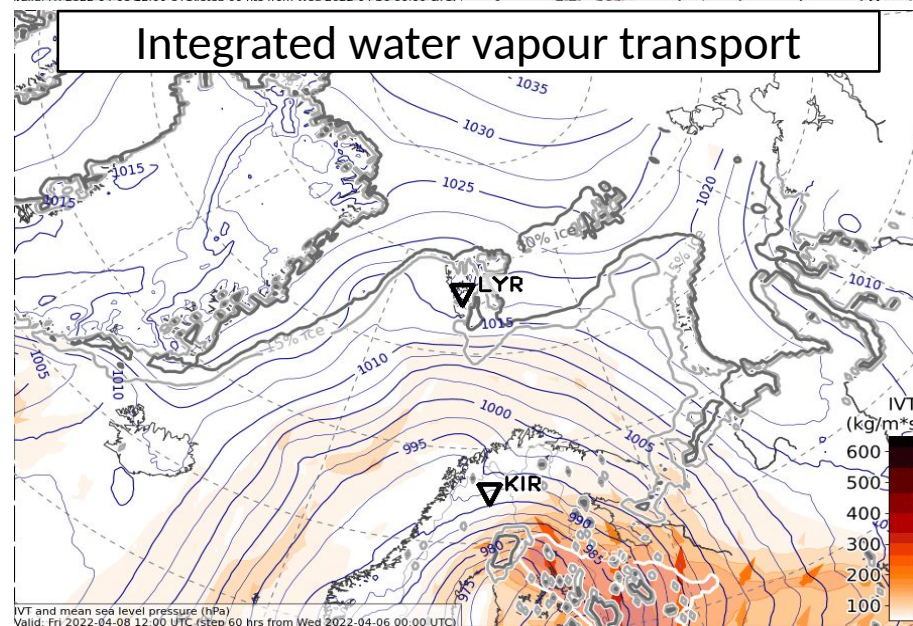
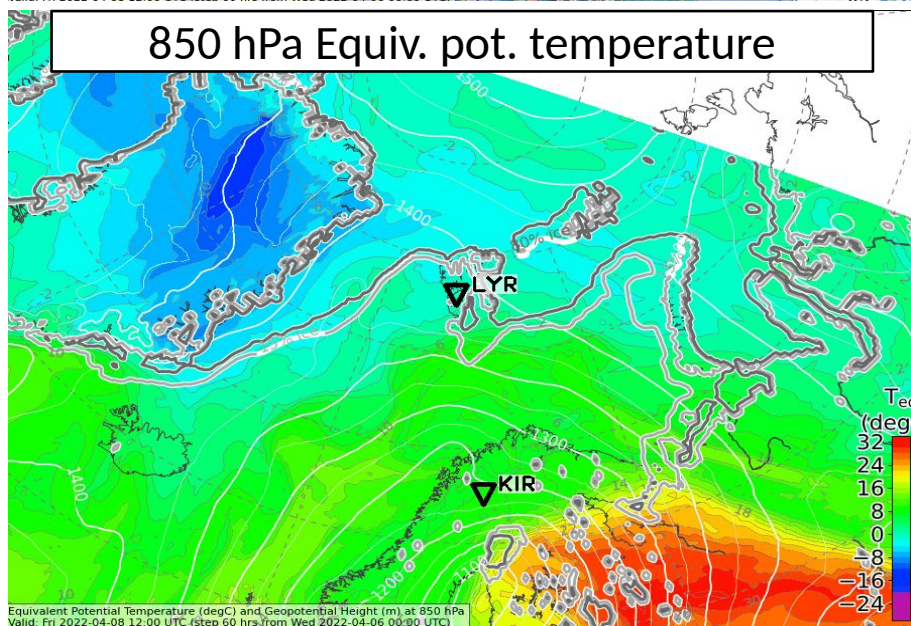
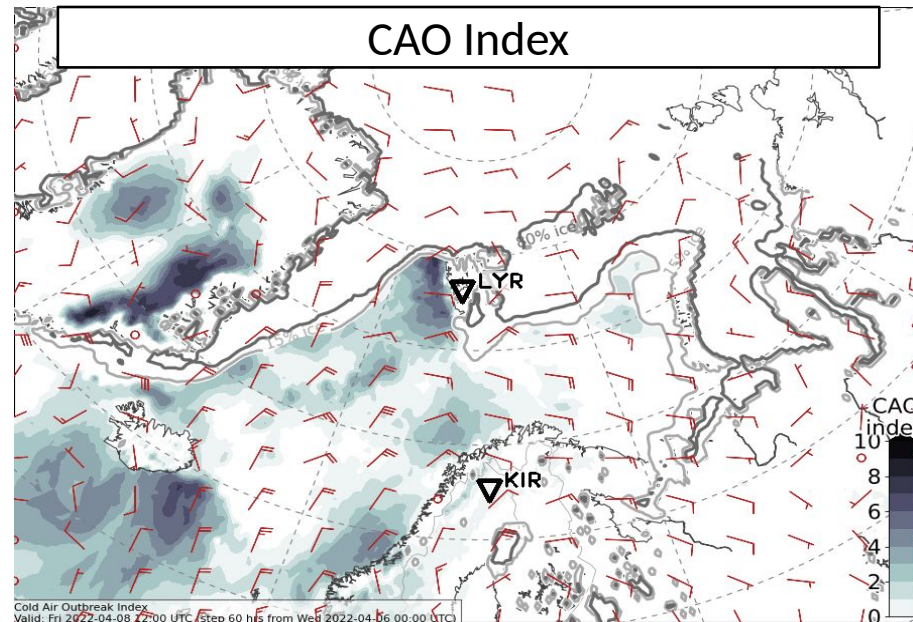
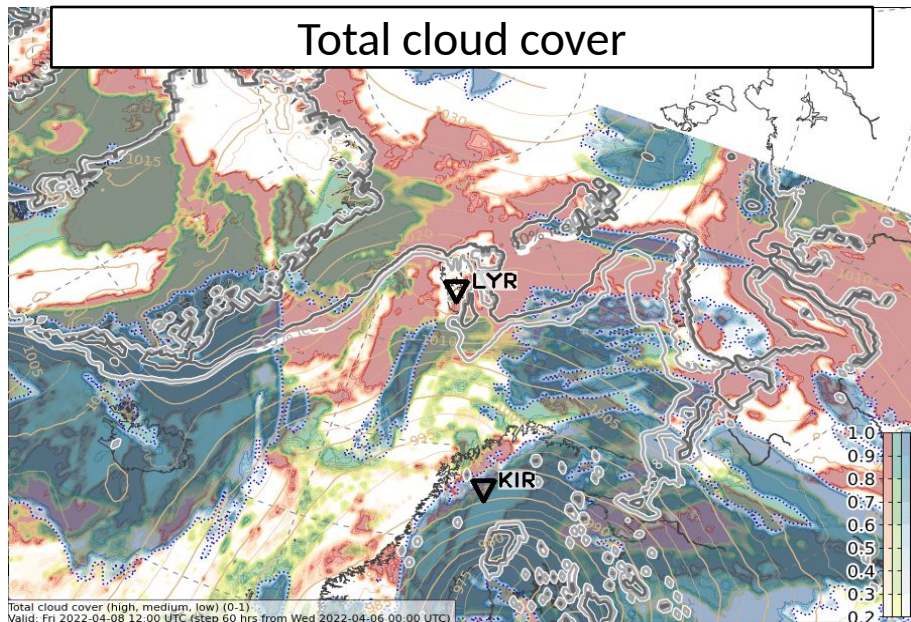
2022-03-31 00 UTC: 36 – 132h

Cloud cover & 850hPa θ_e & CAO & IVT

Thu, 2022-04-07 12 UTC (+36h)

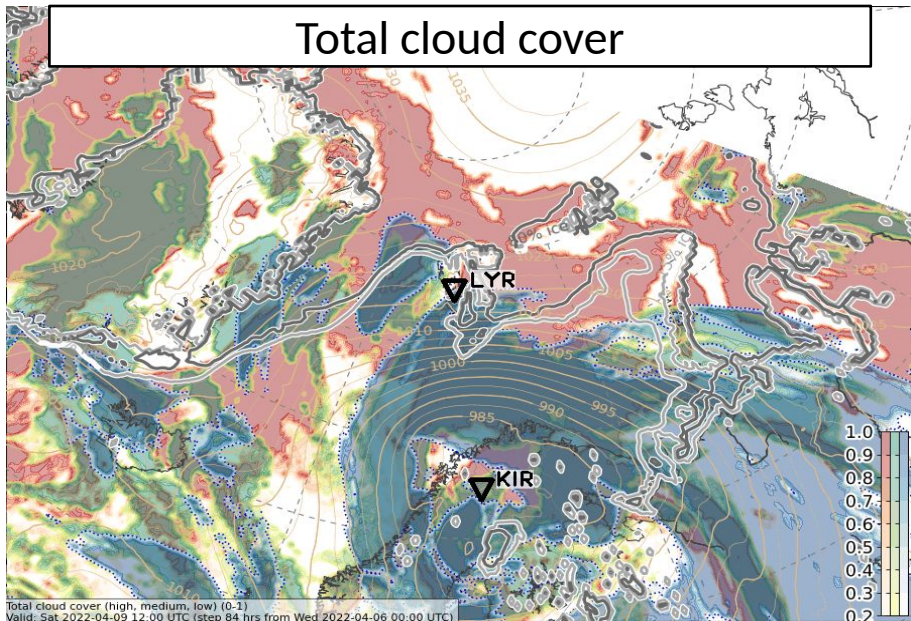


Fri, 2022-04-08 12 UTC (+60h)

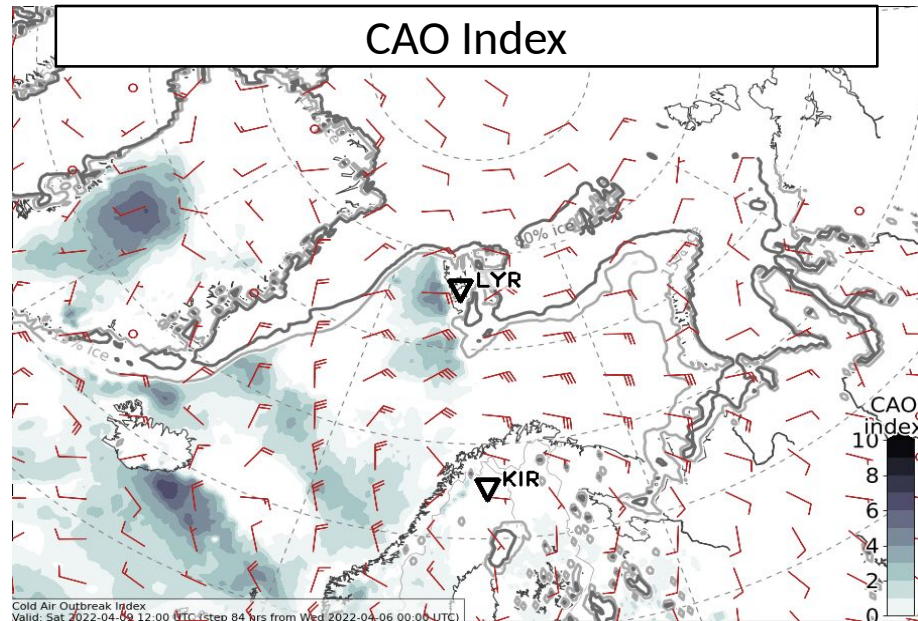


Sat, 2022-04-09 12 UTC (+84h)

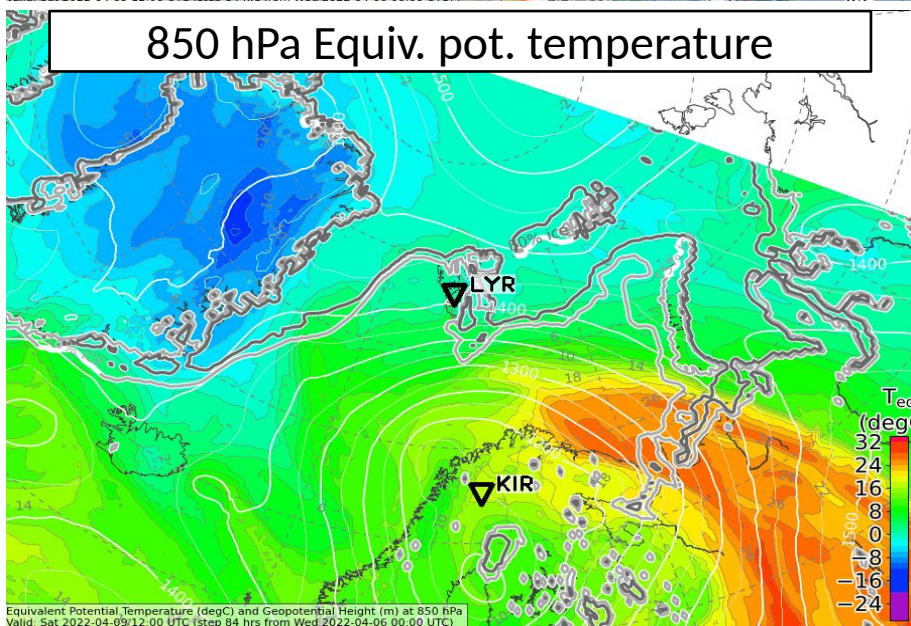
Total cloud cover



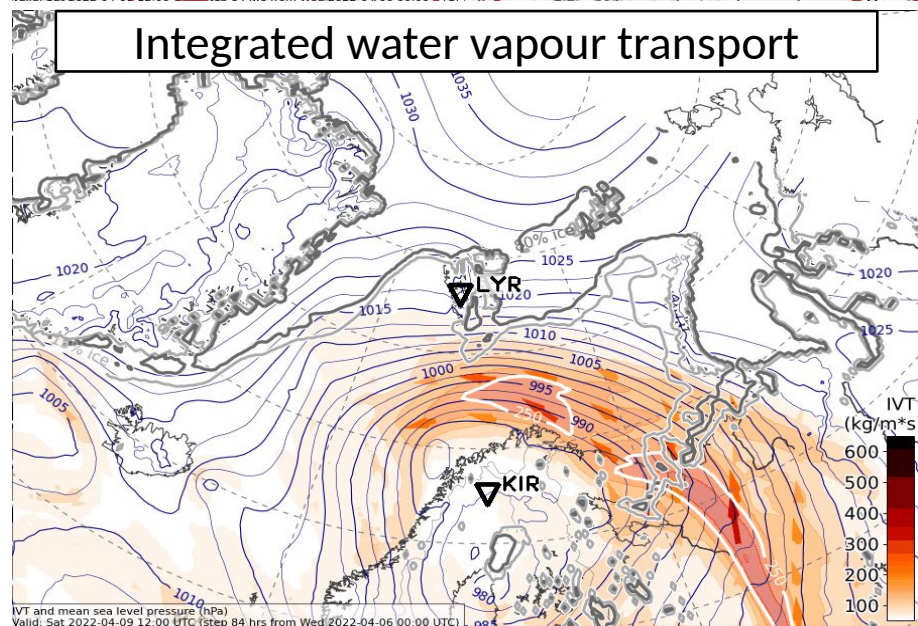
CAO Index



850 hPa Equiv. pot. temperature

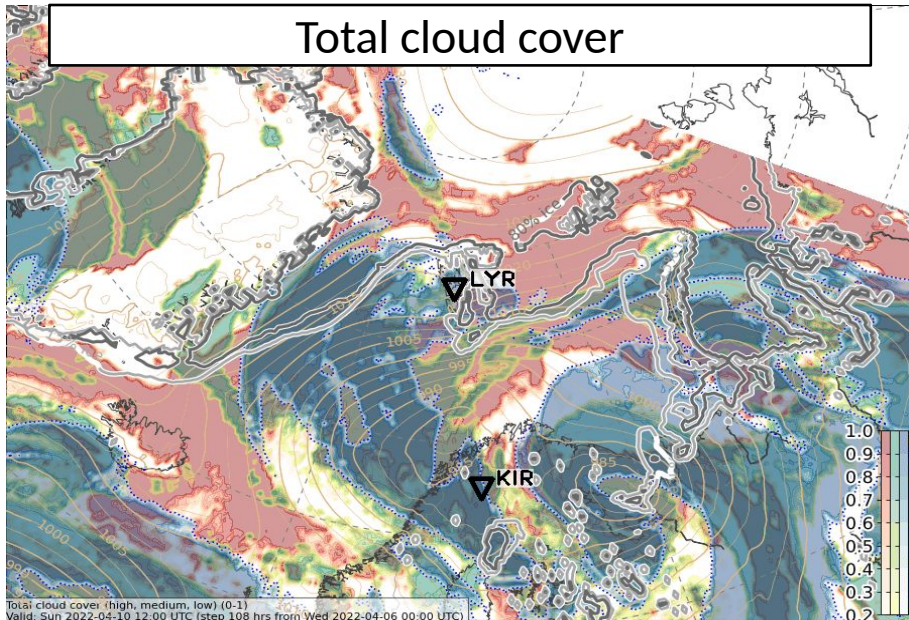


Integrated water vapour transport

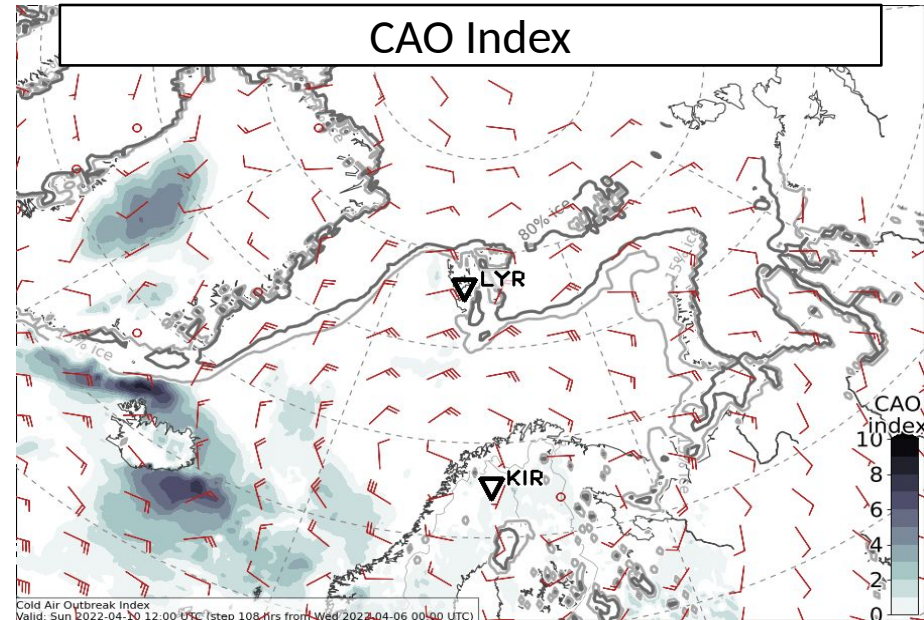


Sun, 2022-04-10 12 UTC (+108h)

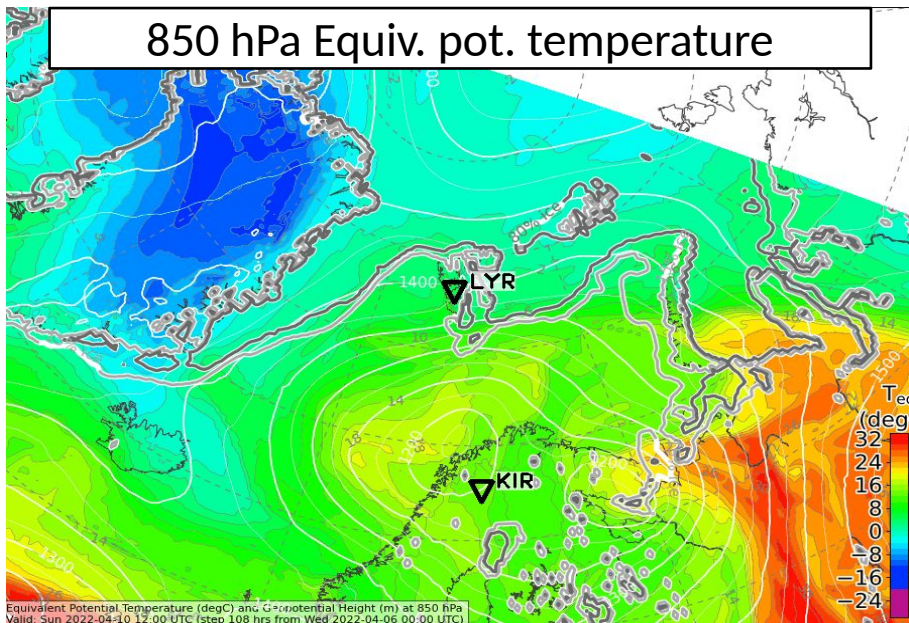
Total cloud cover



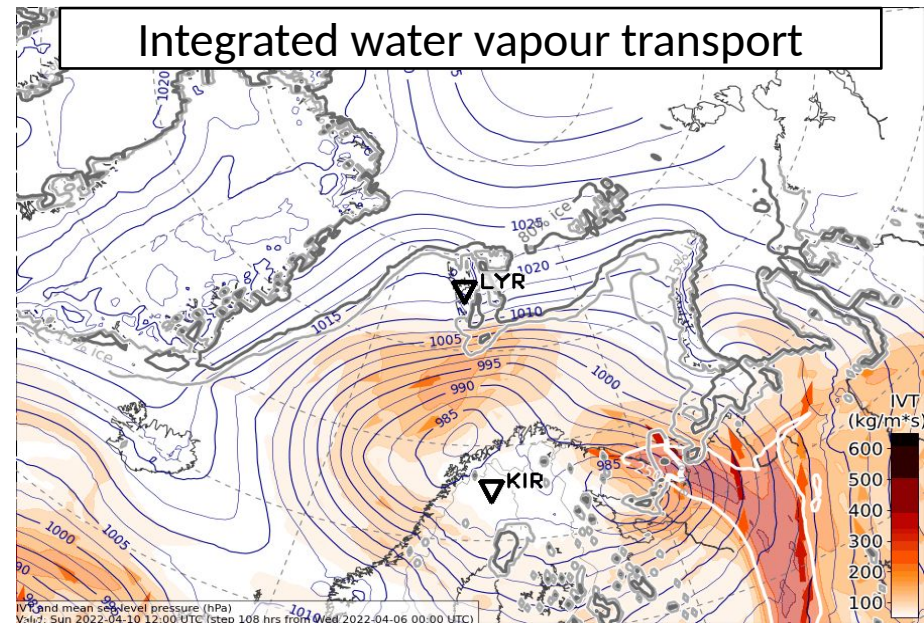
CAO Index



850 hPa Equiv. pot. temperature

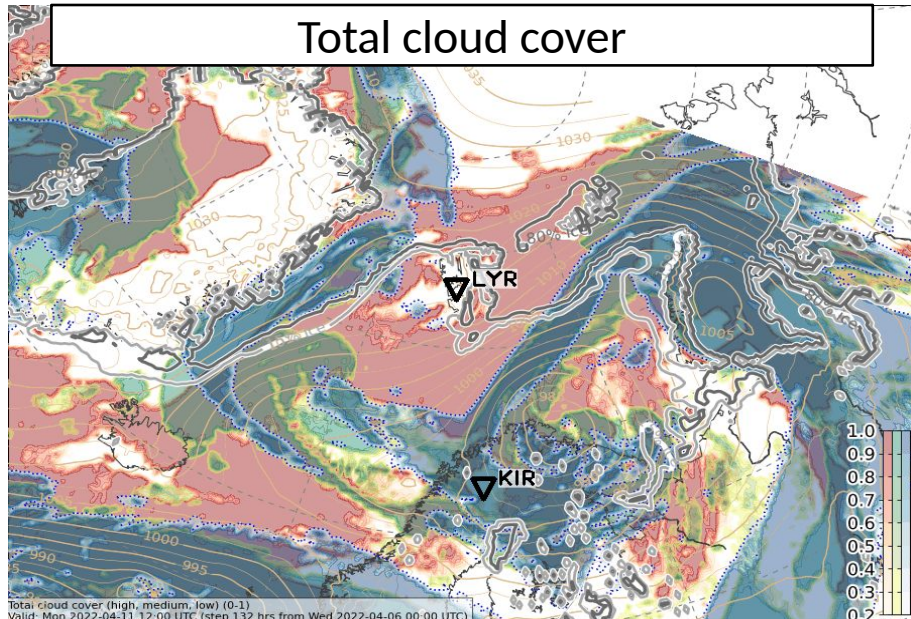


Integrated water vapour transport

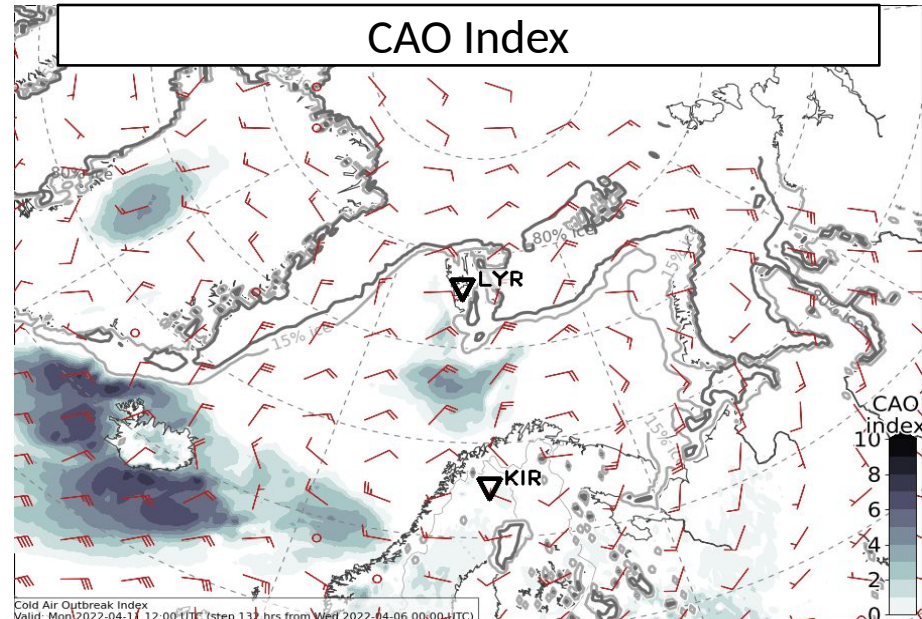


Mon, 2022-04-11 12 UTC (+132h)

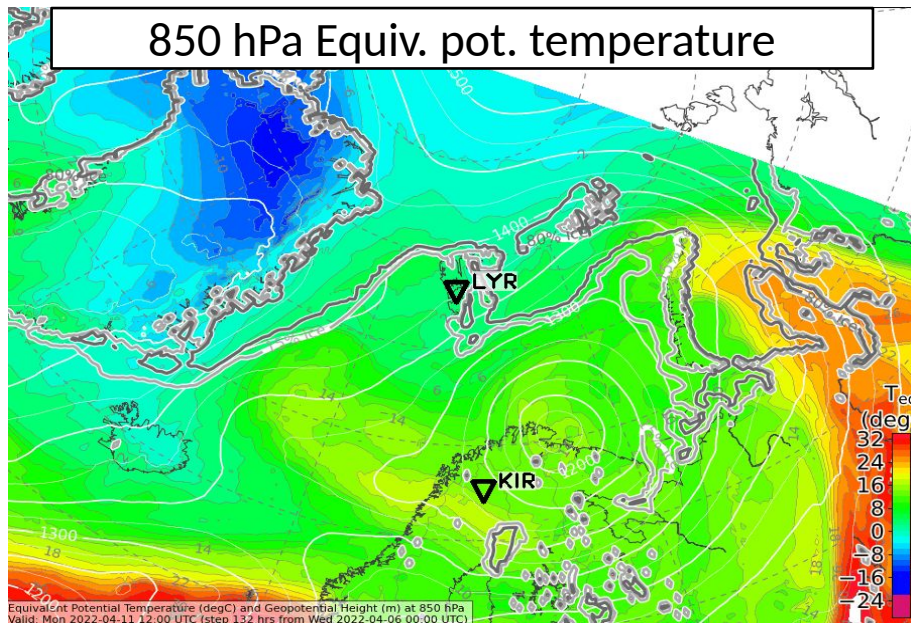
Total cloud cover



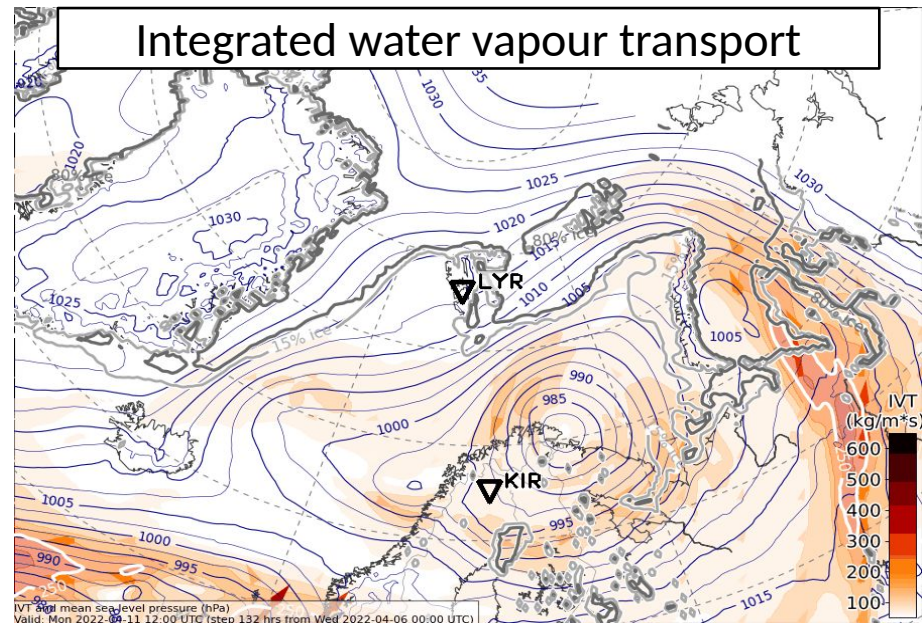
CAO Index



850 hPa Equiv. pot. temperature



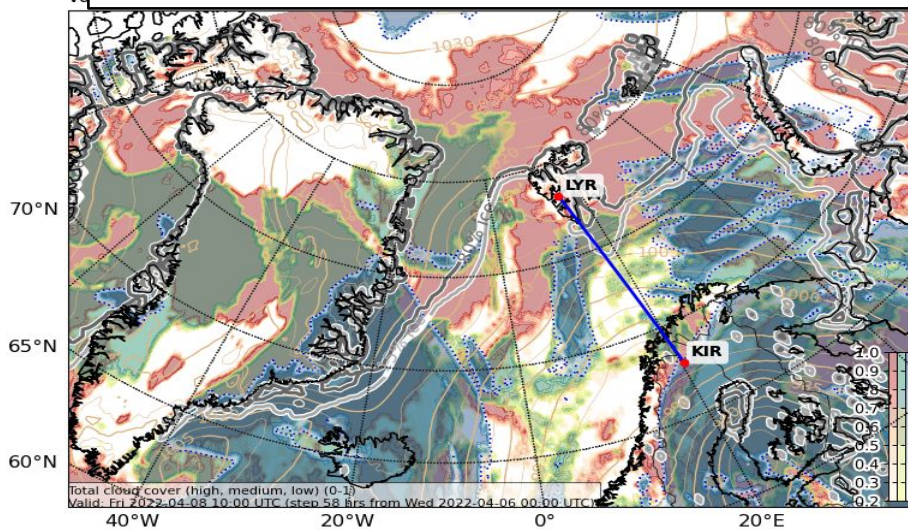
Integrated water vapour transport



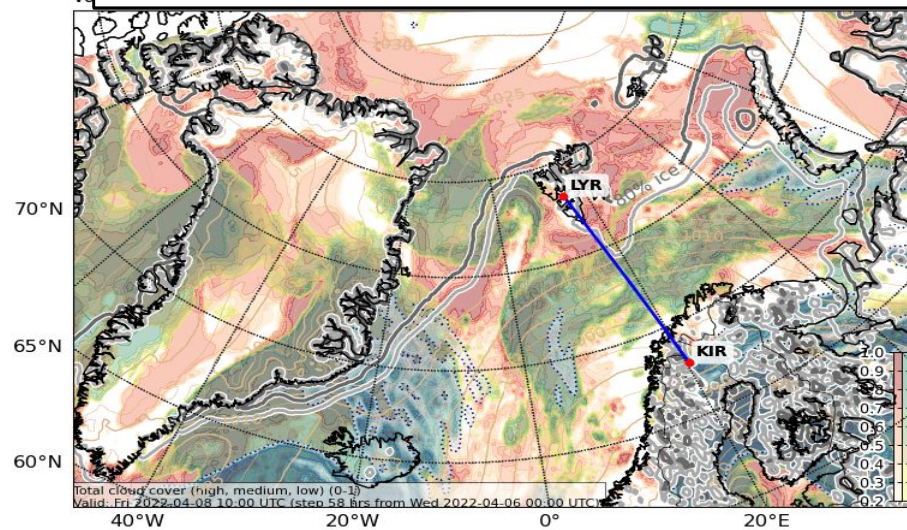
Cloud cover Fri – Sun
2022-04-06 UTC: 58 – 114h
ECMWF & ICON

Fri, 2022-04-08, Total cloud cover

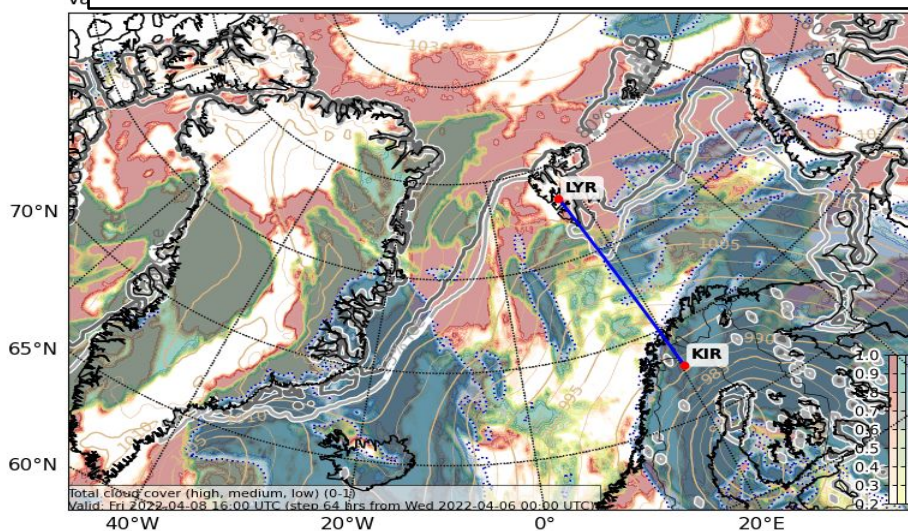
ECMWF: 10 UTC



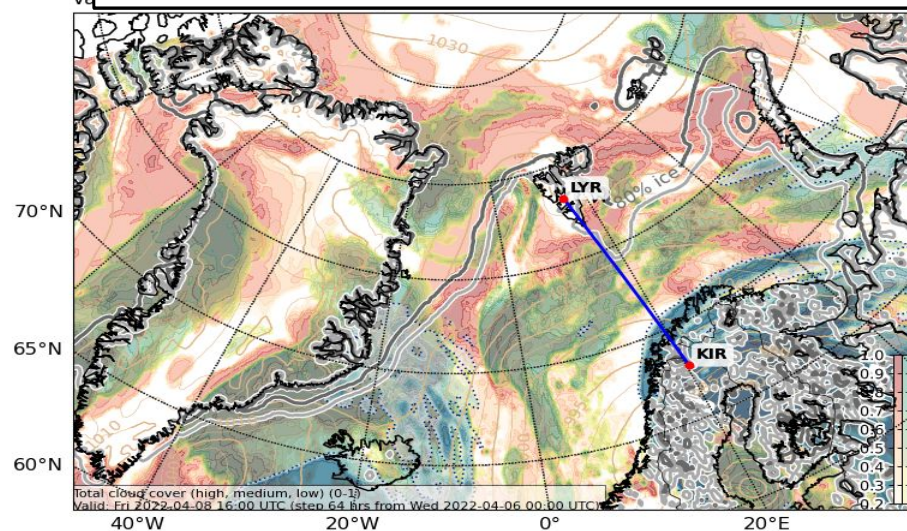
ICON: 10 UTC



ECMWF: 16 UTC

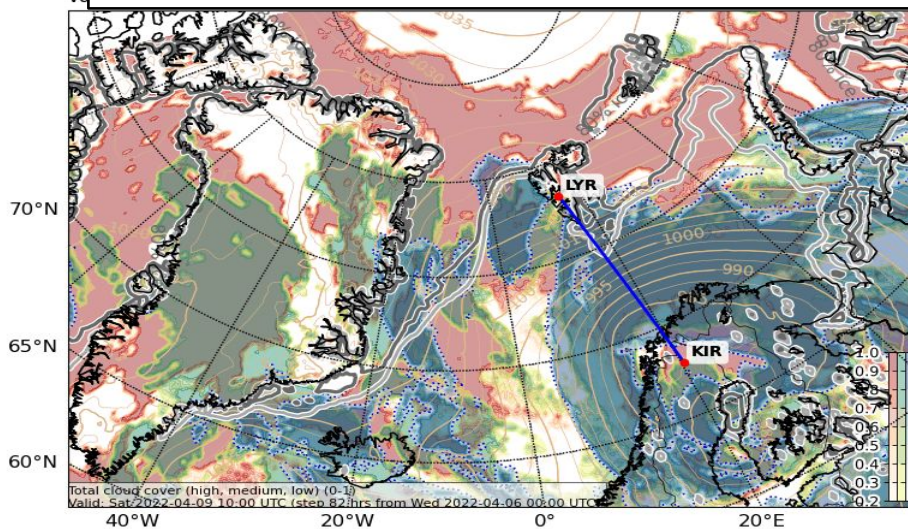


ICON: 16 UTC

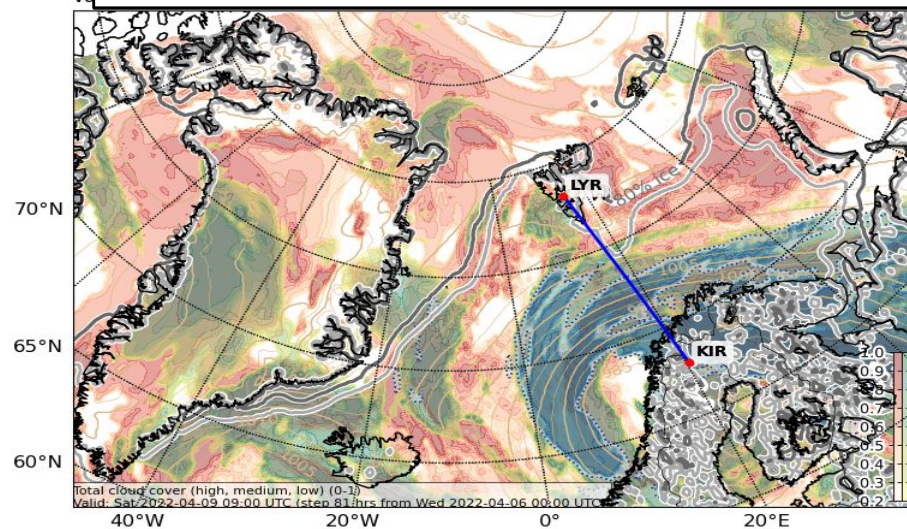


Sat, 2022-04-09, Total cloud cover

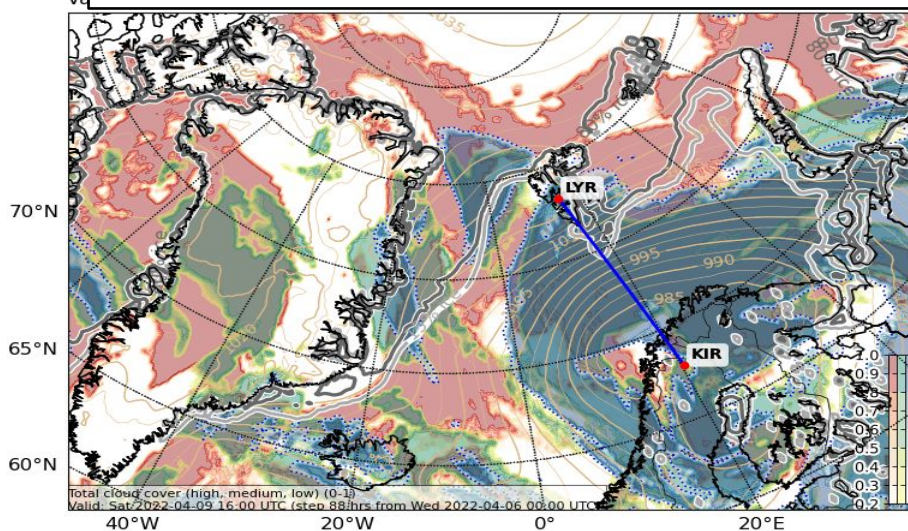
ECMWF: 10 UTC



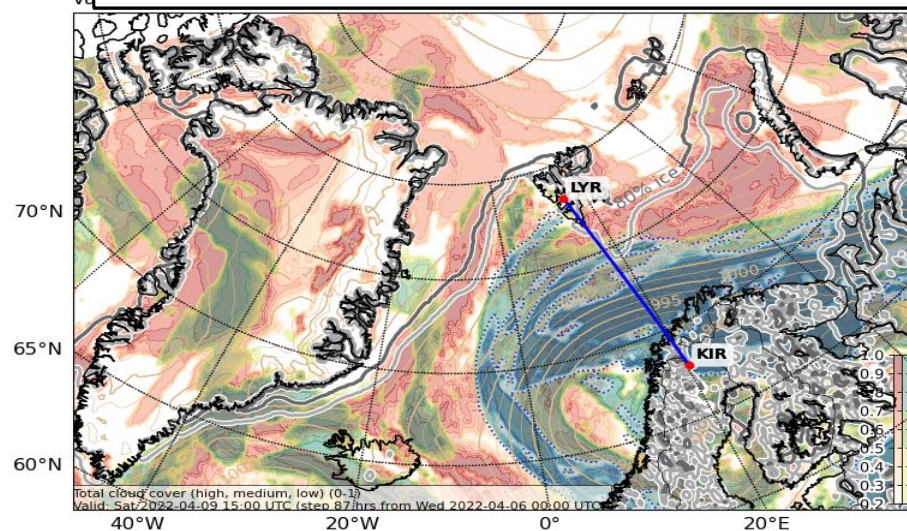
ICON: 09 UTC



ECMWF: 16 UTC

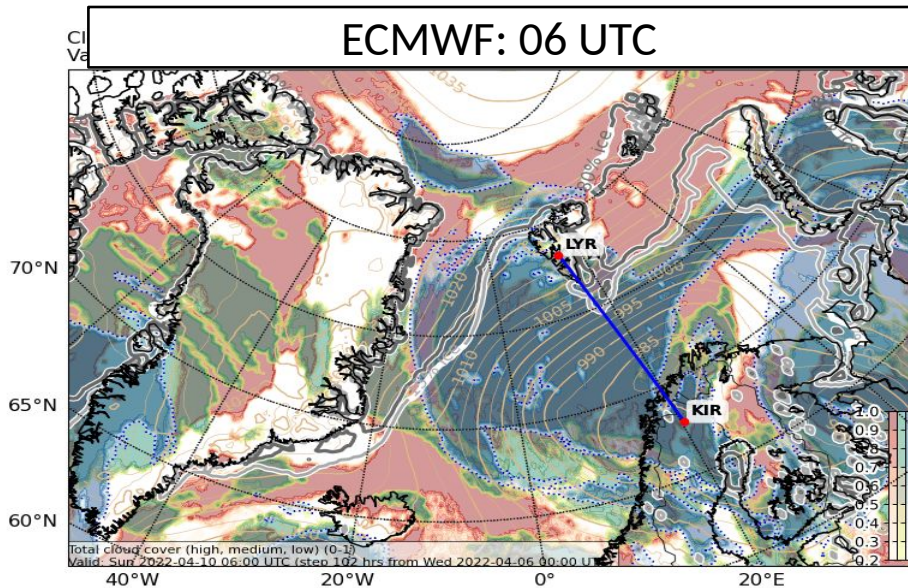


ICON: 15 UTC

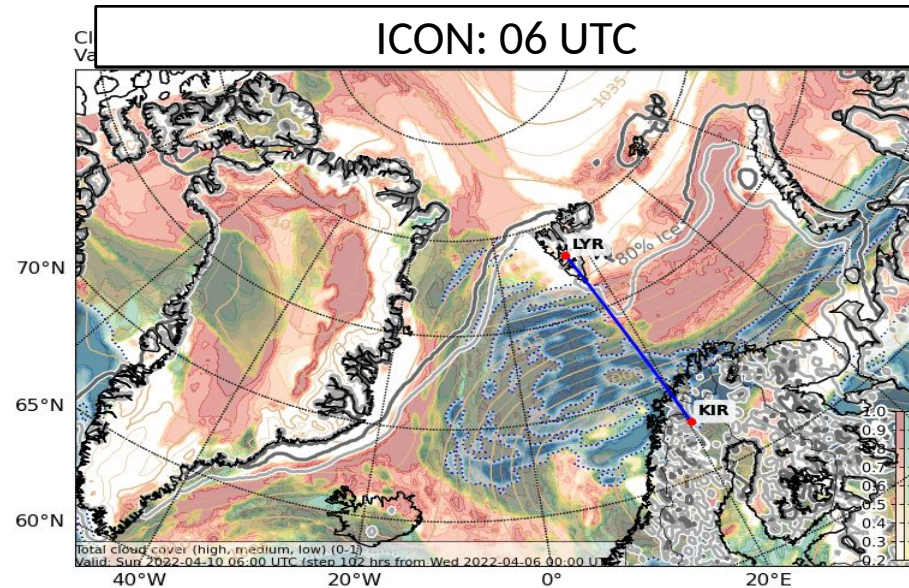


Sun, 2022-04-10, Total cloud cover

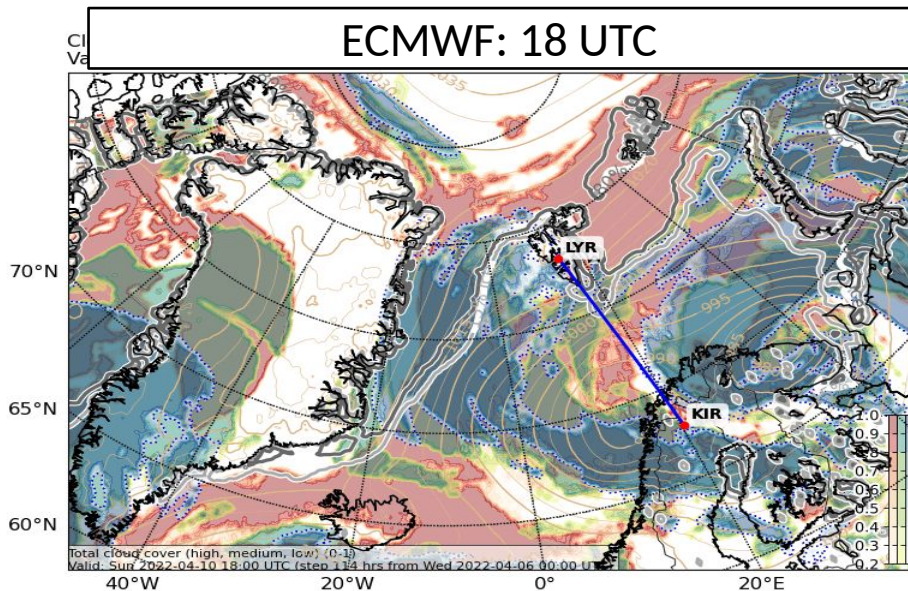
ECMWF: 06 UTC



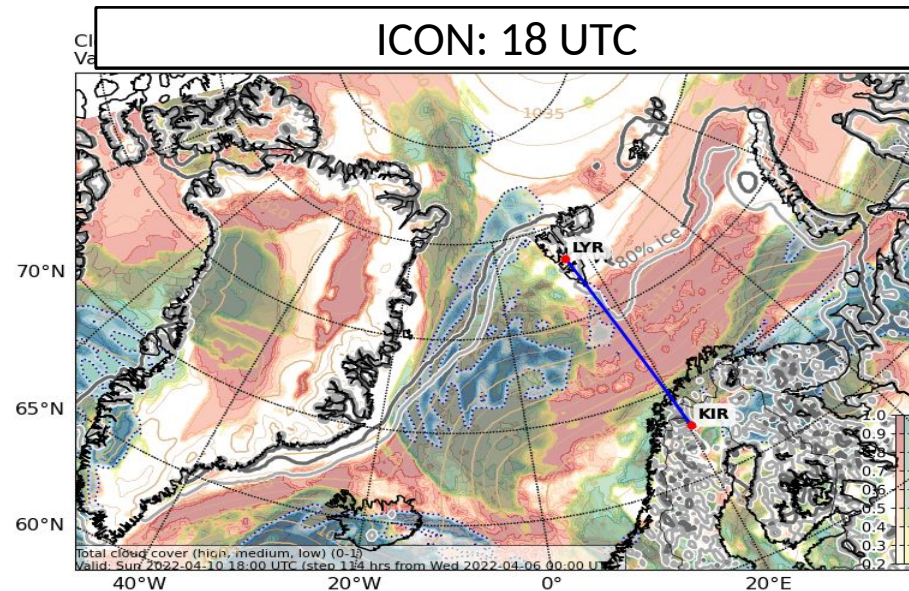
ICON: 06 UTC



ECMWF: 18 UTC



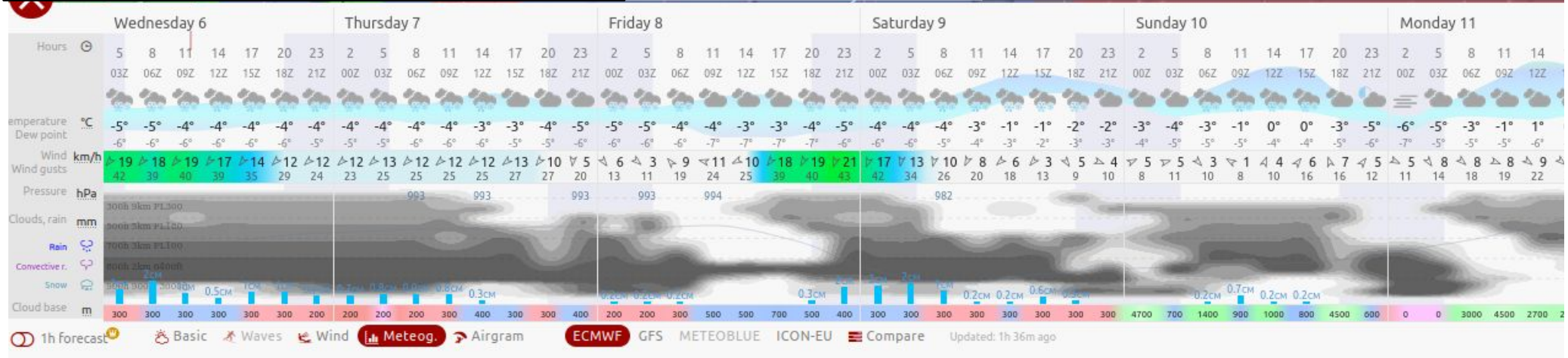
ICON: 18 UTC



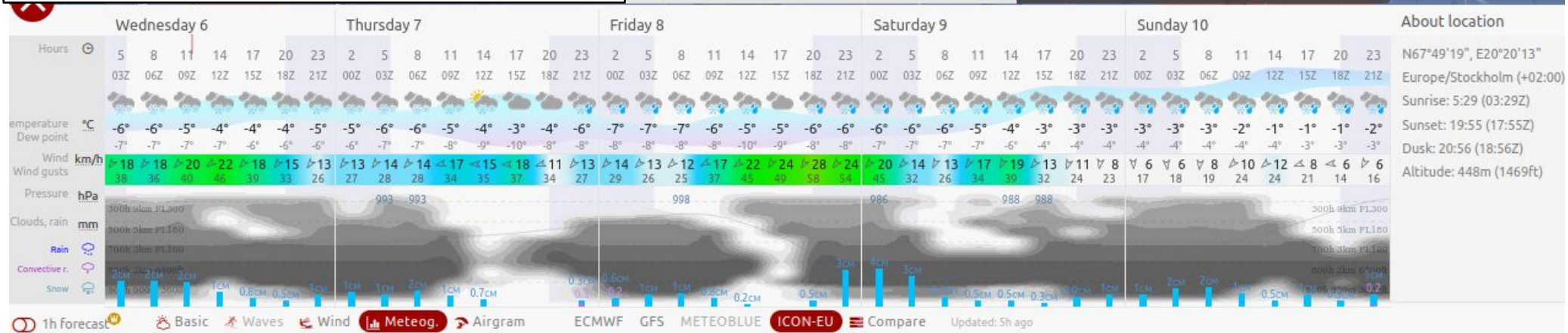
Airport meteograms & local weather

Kiruna:

ECWWMF



ICON

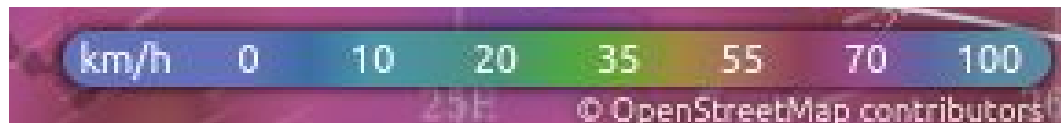
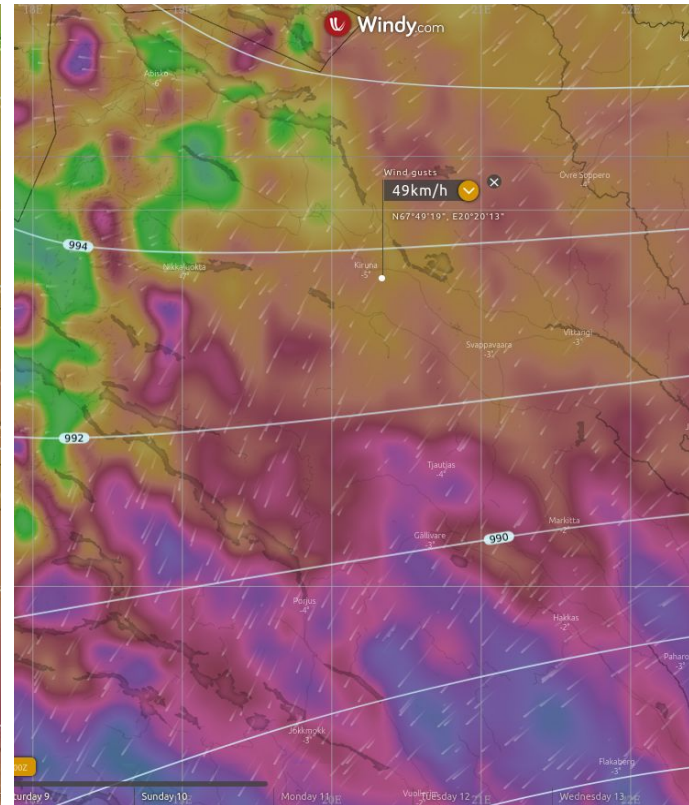
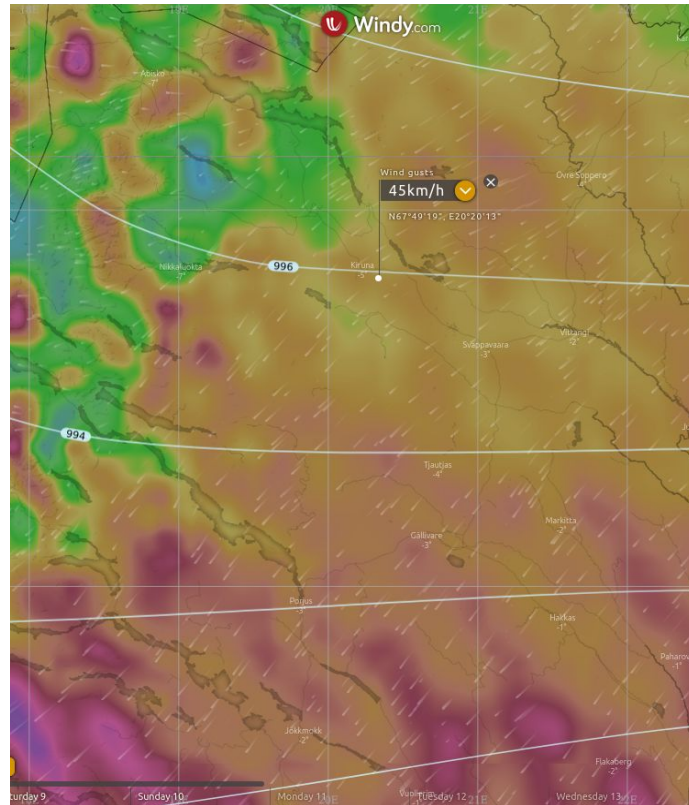
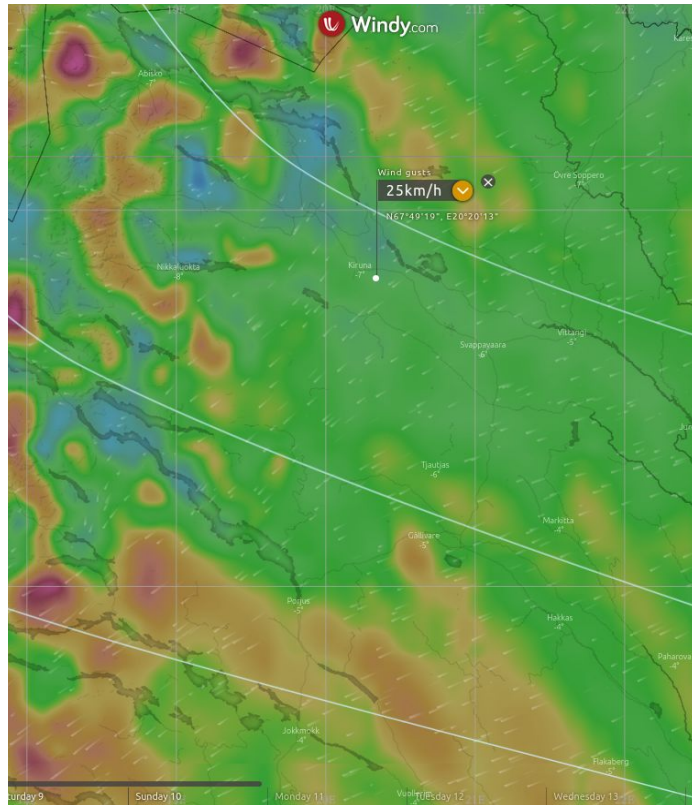


Kiruna: Fri, 2022-04-08, Wind gusts (ICON-EU)

06 UTC

12 UTC

18 UTC

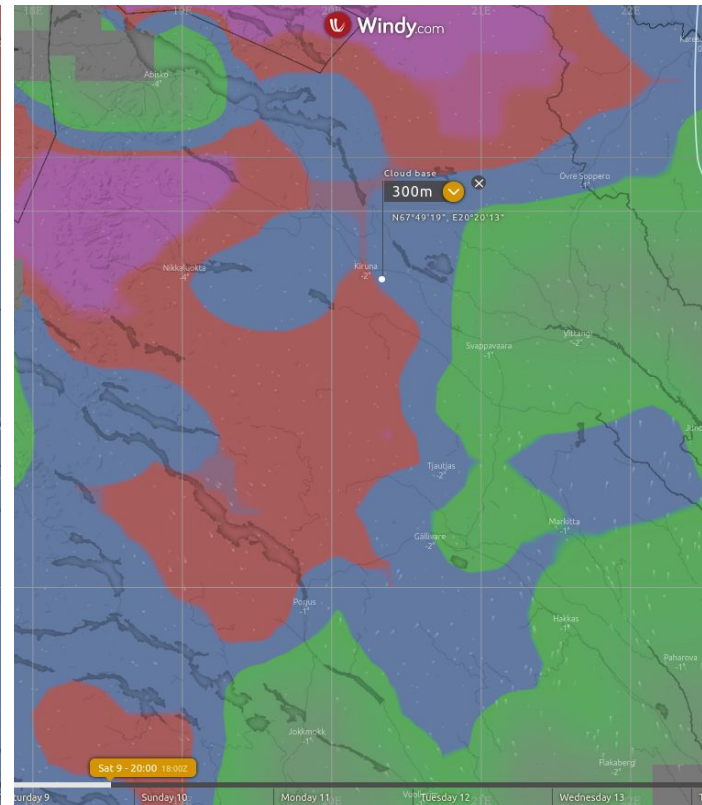
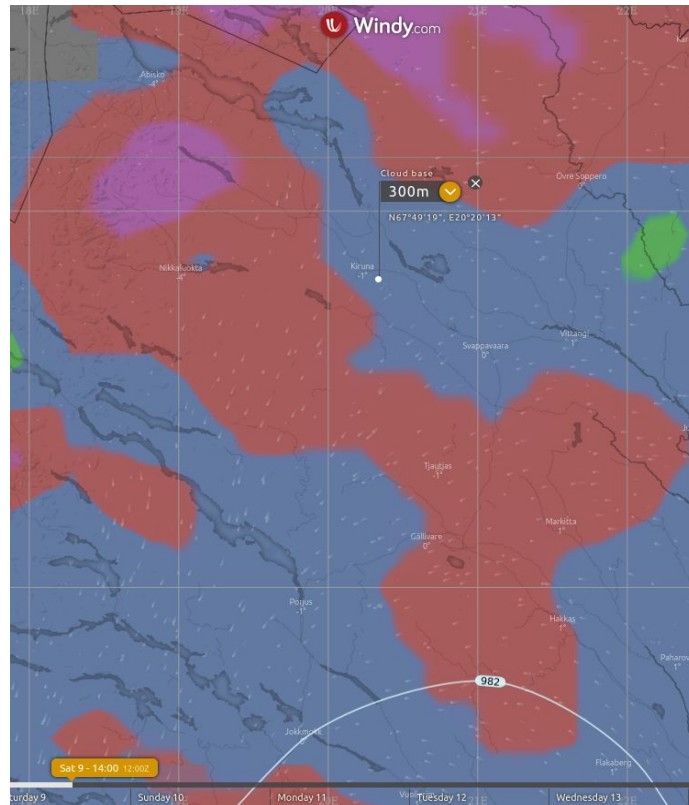
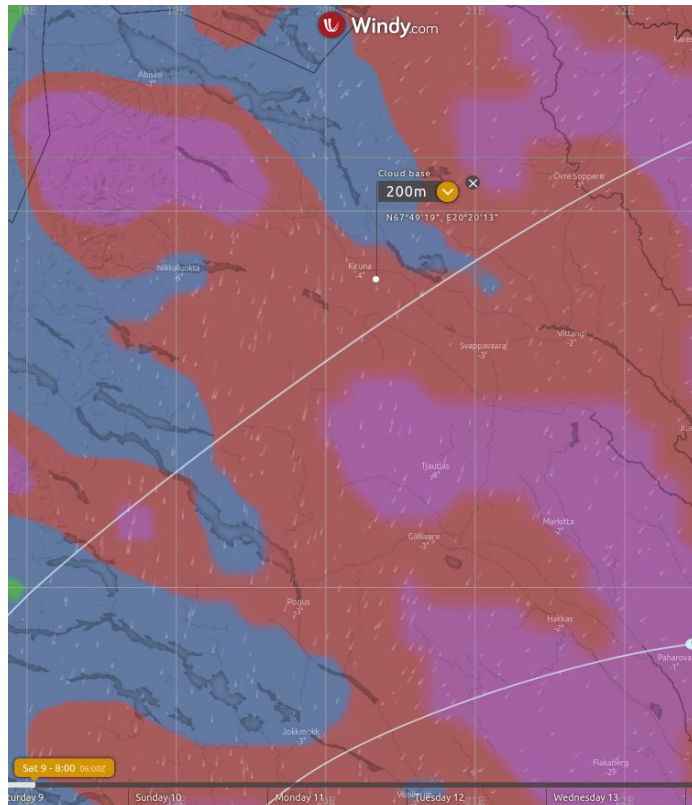


Kiruna: Sat, 2022-04-09, Cloud base (ECMWF)

06 UTC

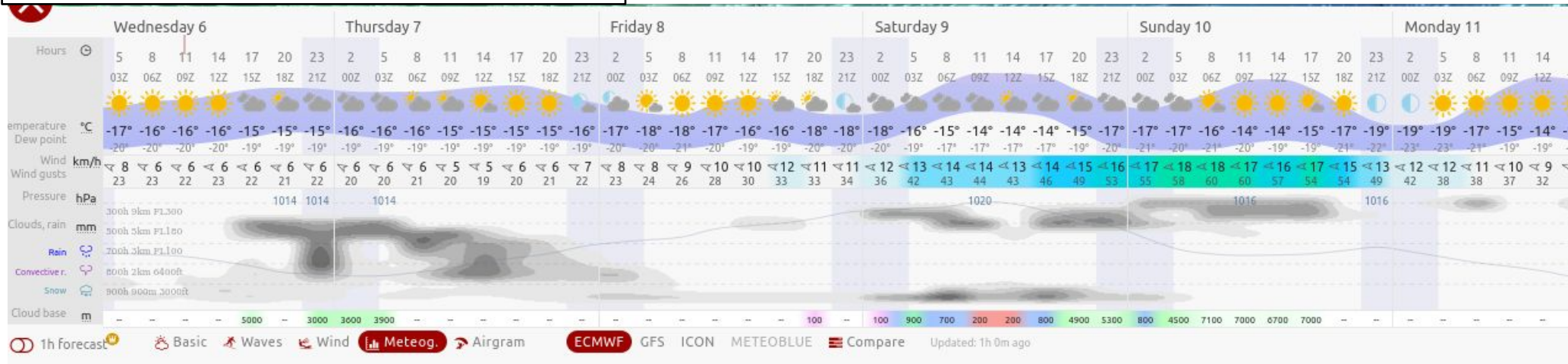
12 UTC

18 UTC

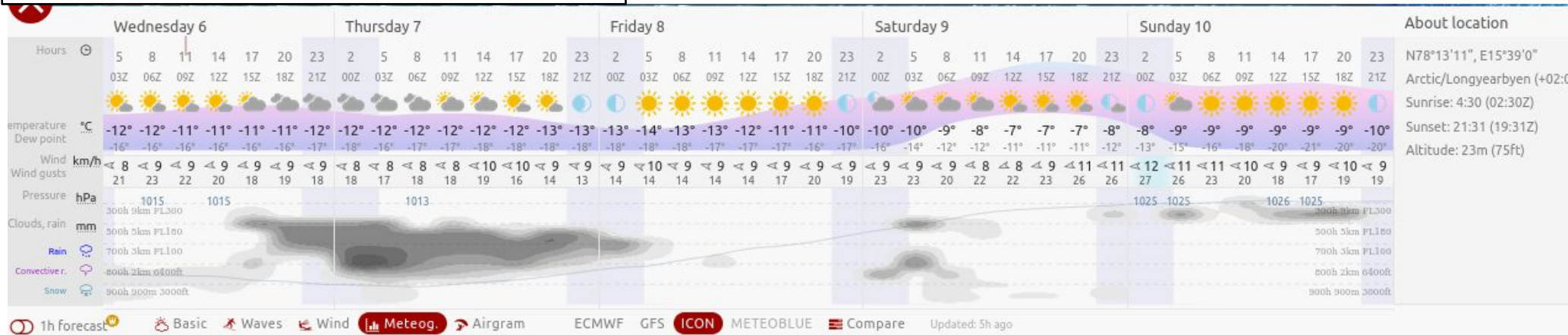


Longyearbyen:

ECWMF



ICON

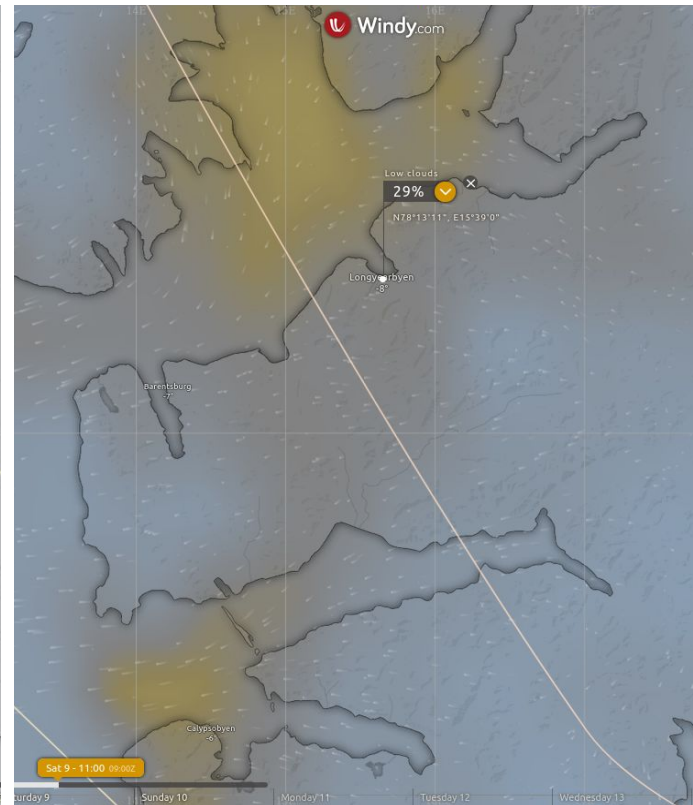
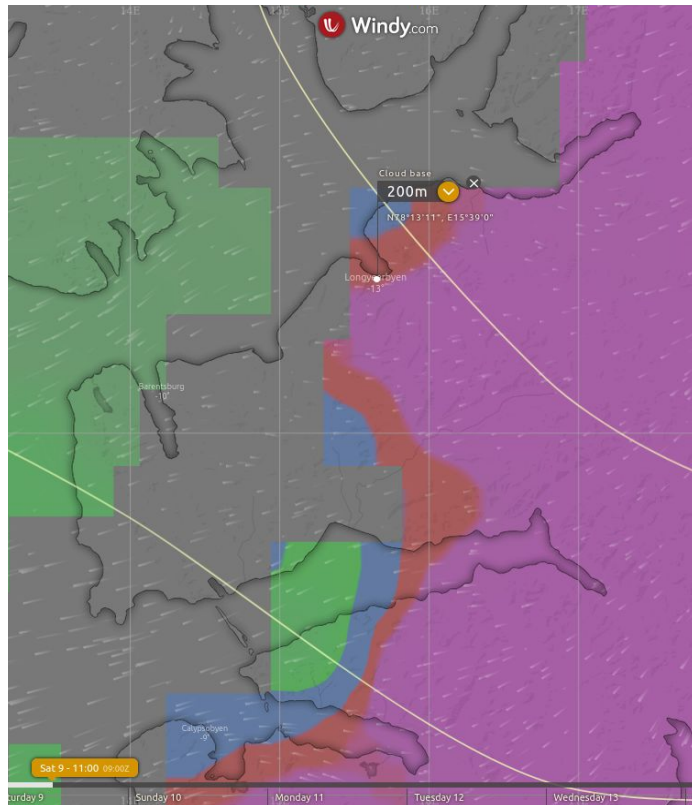


Longyearbyen: Sat, 2022-04-09, 09 UTC: Clouds

Cloud base (ECMWF)

Low cloud cover (ECMWF)

Low cloud cover (ICON)

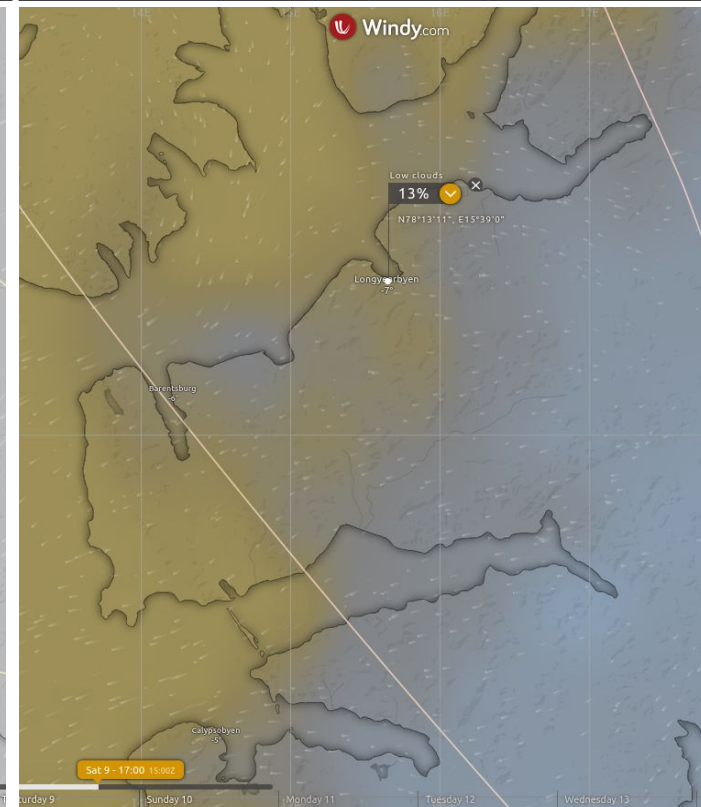
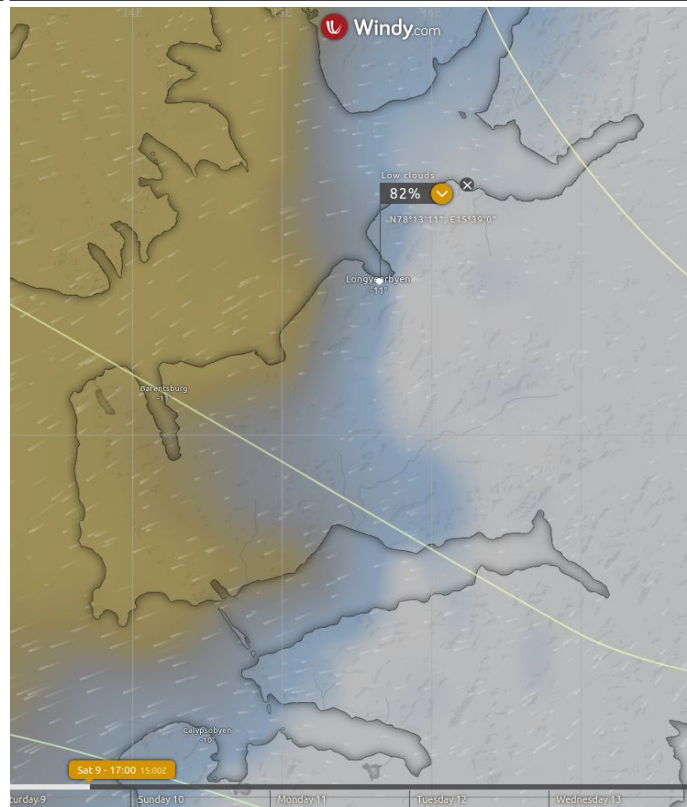
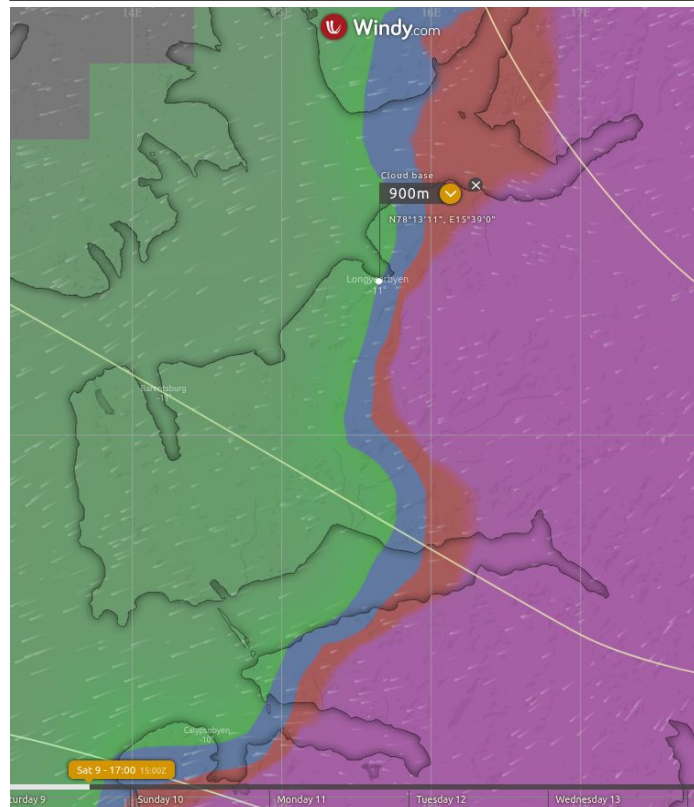


Longyearbyen: Sat, 2022-04-09, 15 UTC: Clouds

Cloud base (ECMWF)

Low cloud cover (ECMWF)

Low cloud cover (ICON)



Summary

Summary: Weather Briefing 2022-04-06, 17:00 LT

- **Thursday, 2022-04-07:**
 - Polar low directly West of Svalbard
 - Kiruna: Snowfall & low cloud base
- **Friday, 2022-04-08:**
 - Polar low over Fram Strait still there. Position of its core uncertain
 - Kiruna: Gusts > 50km/h possible in the afternoon. Snowfall almost entire day
- **Saturday, 2022-04-09:**
 - WAA directly South of Svalbard, increased IVT over sea ice floes there
 - Longyearbyen: Low-level clouds with low cloud base mostly East of airport
 - Kiruna: Precipitation and almost full cloud cover with low cloud base most of the day
- **Sunday, 2022-04-10:**
 - WAA approaches Fram Strait, most probably without reaching ice edge (convergence)
 - Kiruna: Precipitation from time to time, but cloud base higher than on Saturday
- **Monday, 2022-04-11:**
 - Weak CAA south of Svalbard (intensity not certain)