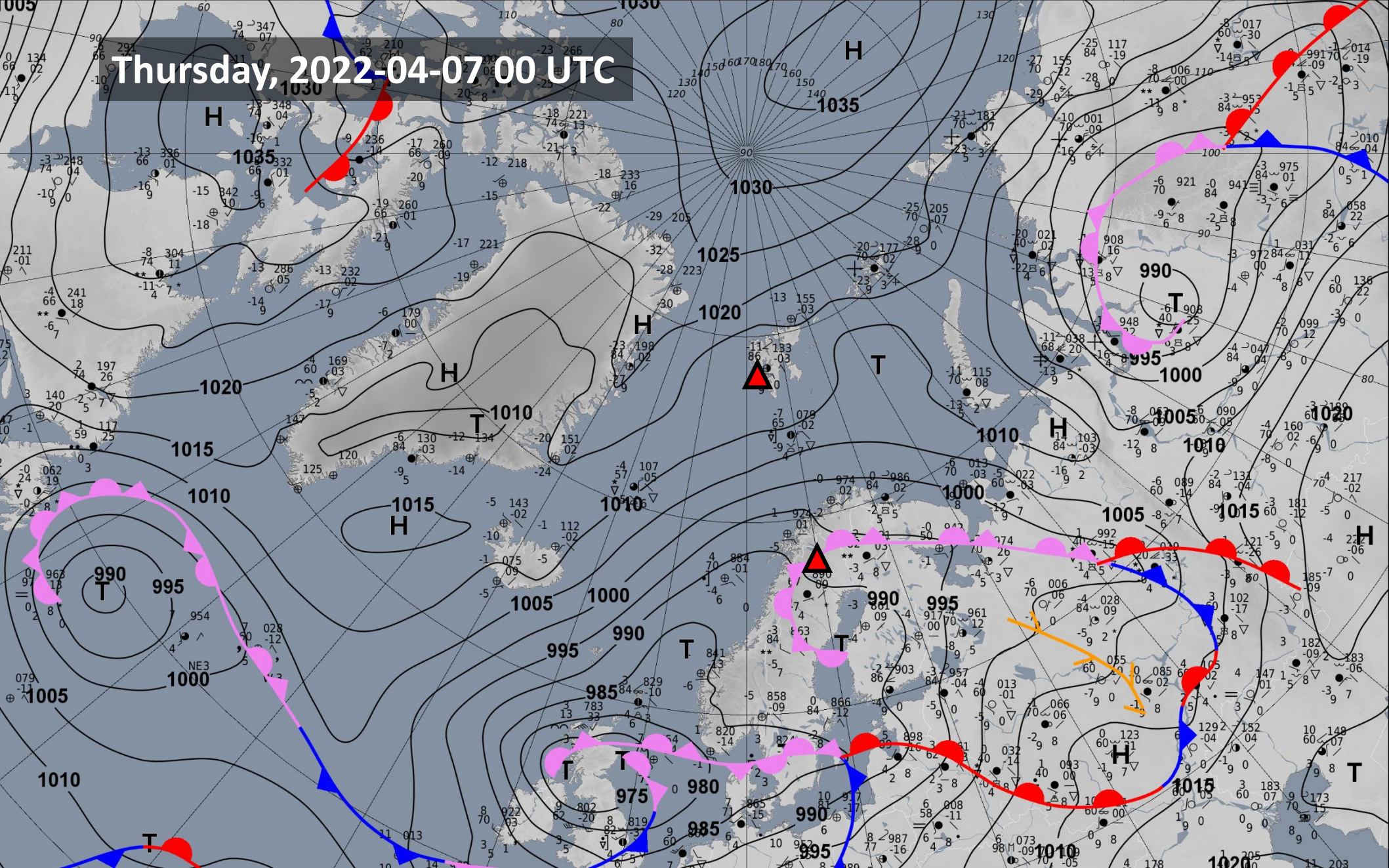


Weather briefing HALO-(AC)³

Thursday, 2022-04-07, 17:00 LT

Surface Analysis
Thursday, 2022-04-07 00 UTC
DWD

Thursday, 2022-04-07 00 UTC



Surface wind development and precipitation

2022-04-07 00 UTC: 36 – 132h

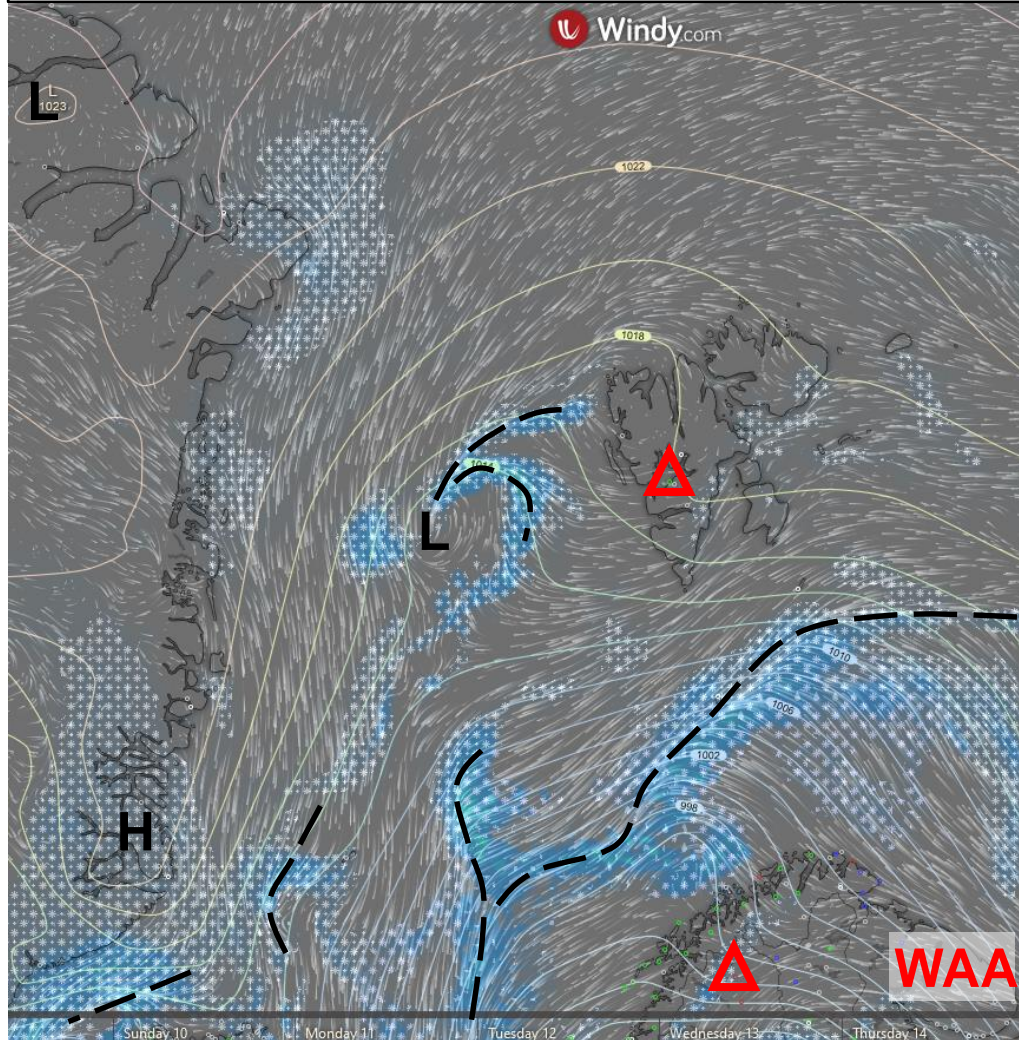
ECMWF & ICON

CAA: Cold Air Advection

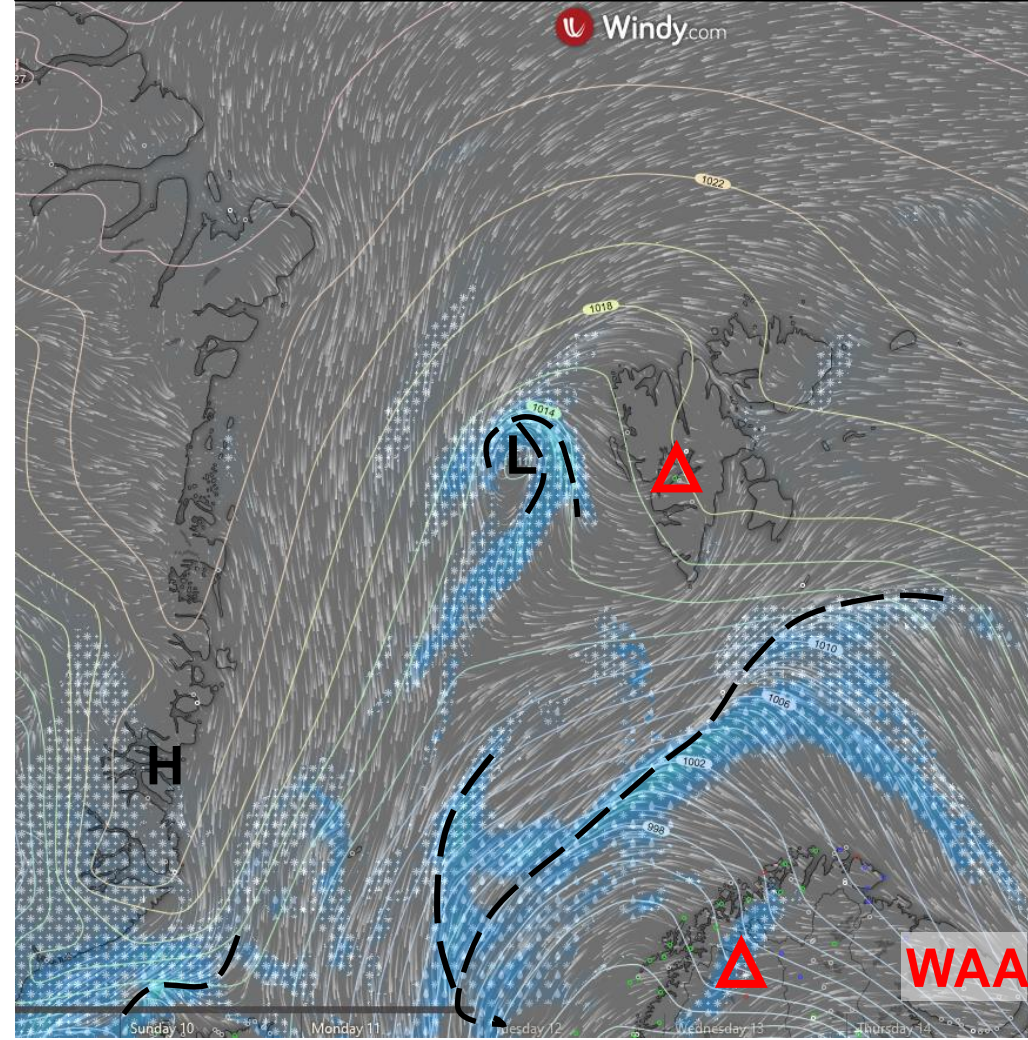
WAA: Warm Air Advection

Friday, 2022-04-08 09 UTC (+33h)

ECMWF

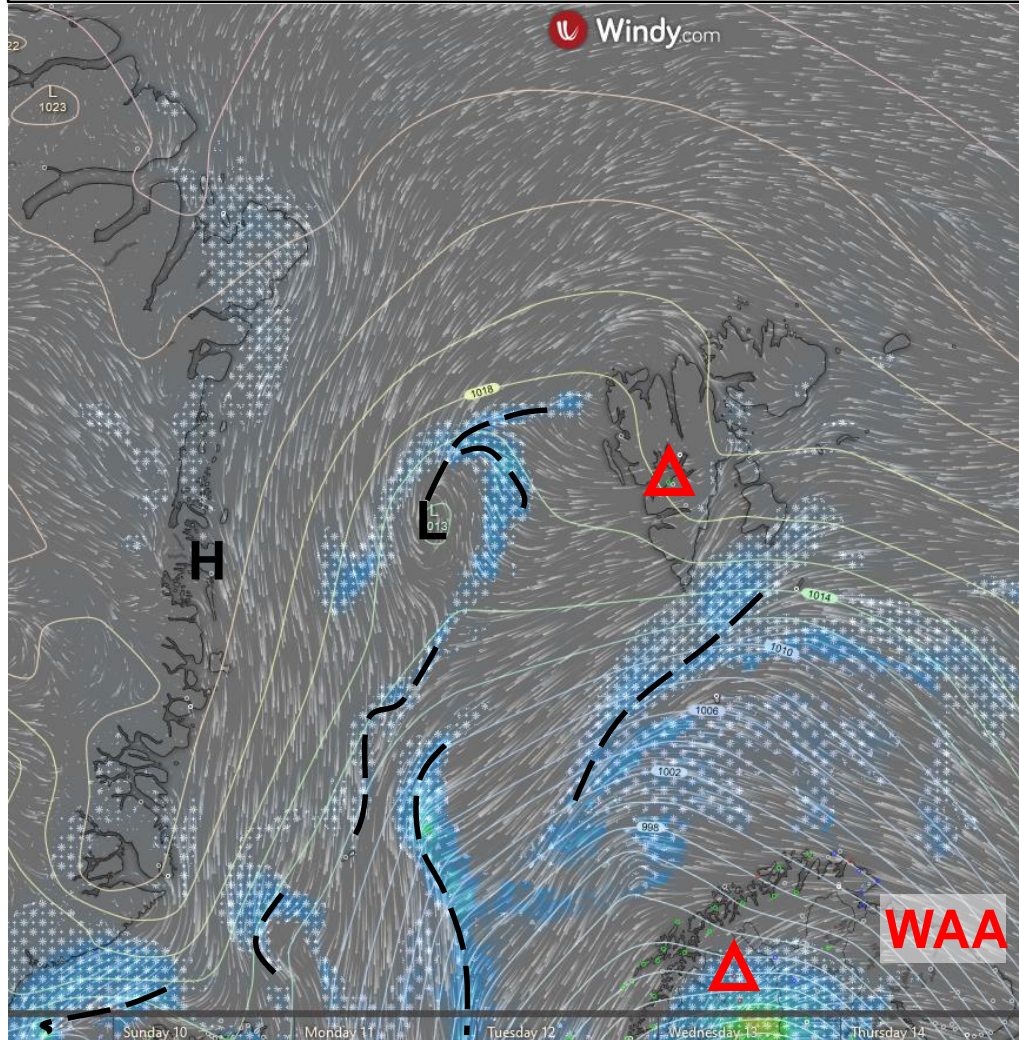


ICON

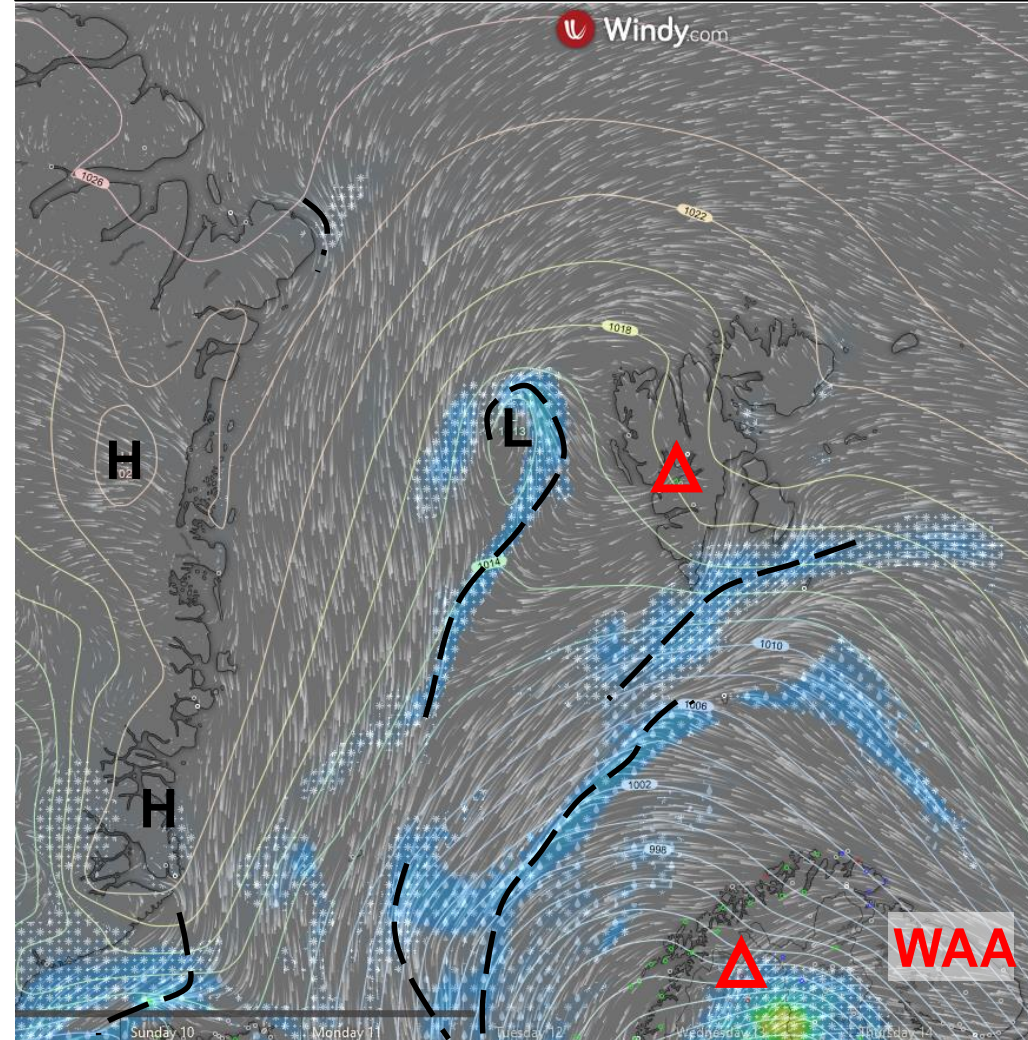


Friday, 2022-04-08 15 UTC (+39h)

ECMWF

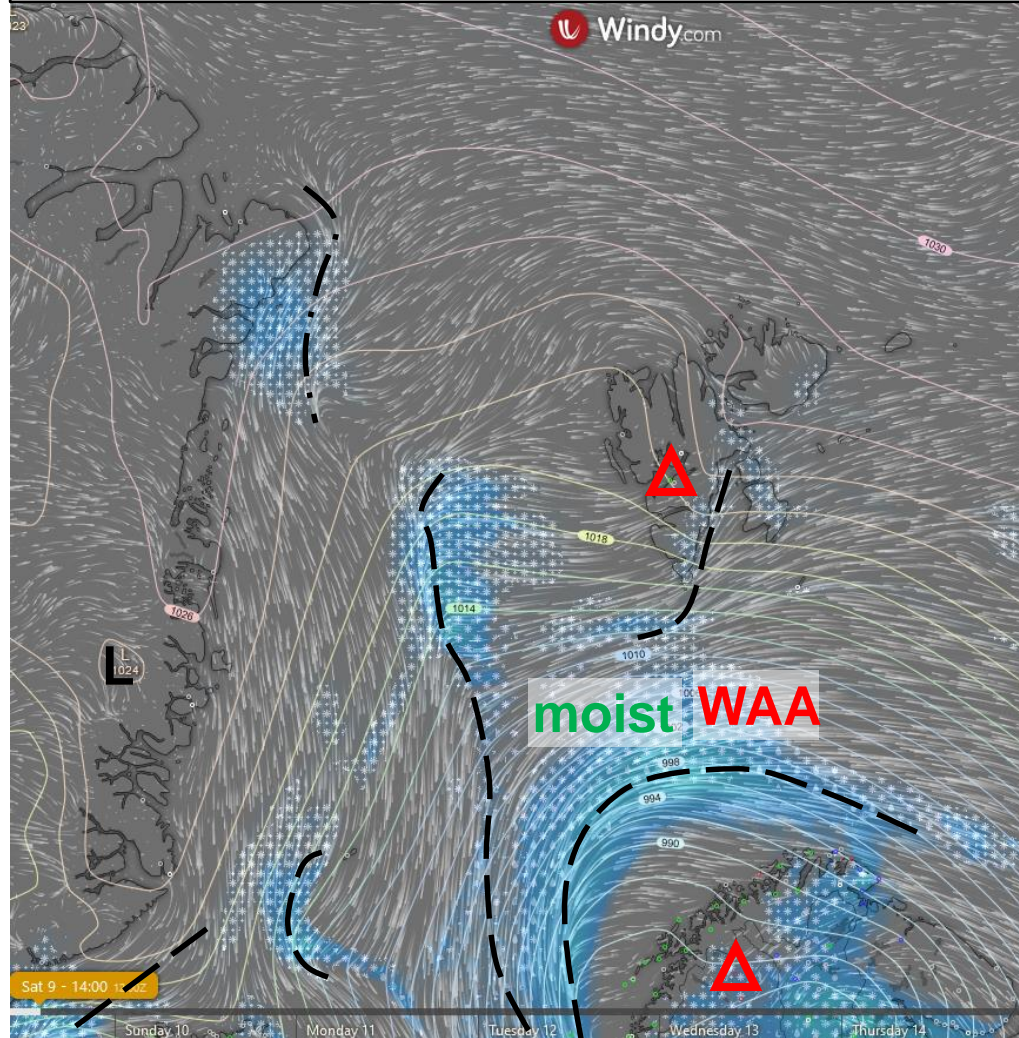


ICON

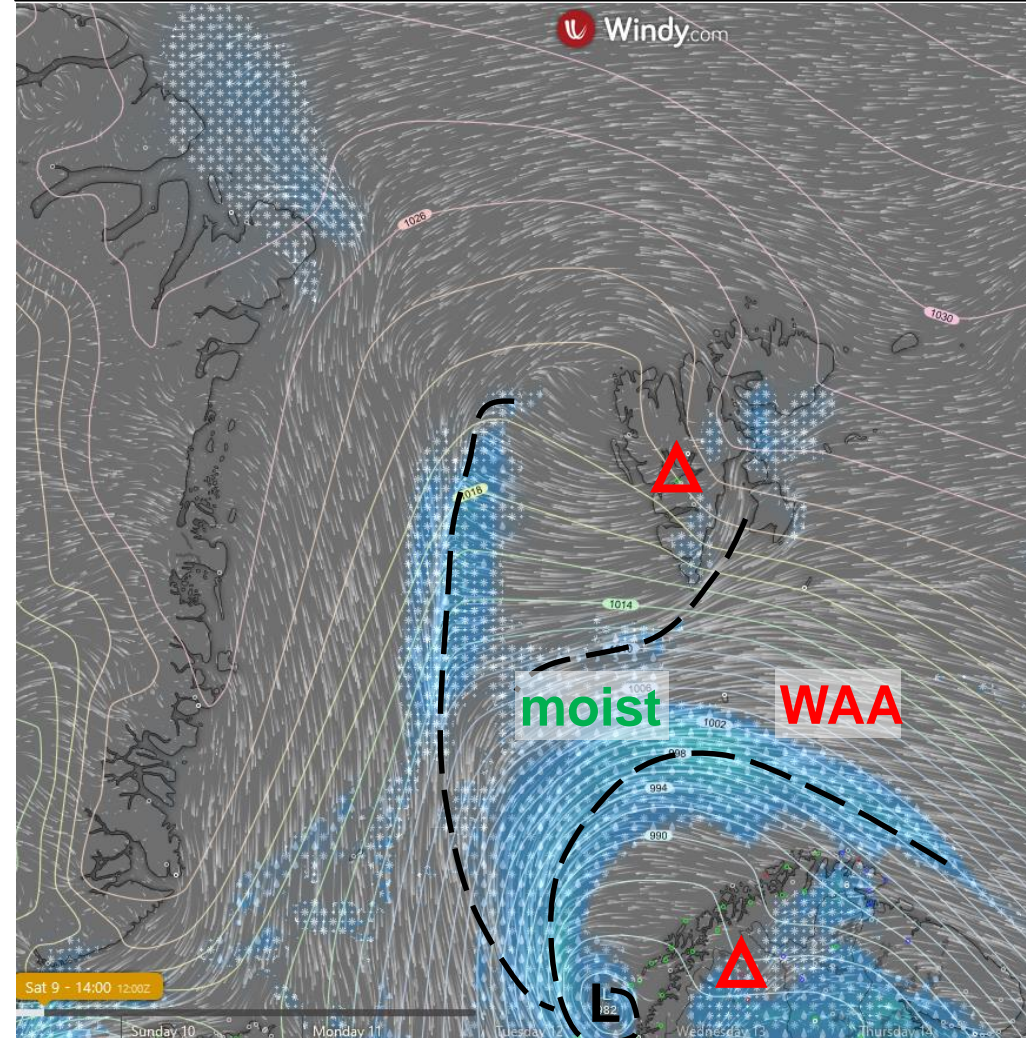


Saturday, 2022-04-09 12 UTC (+60h)

ECMWF

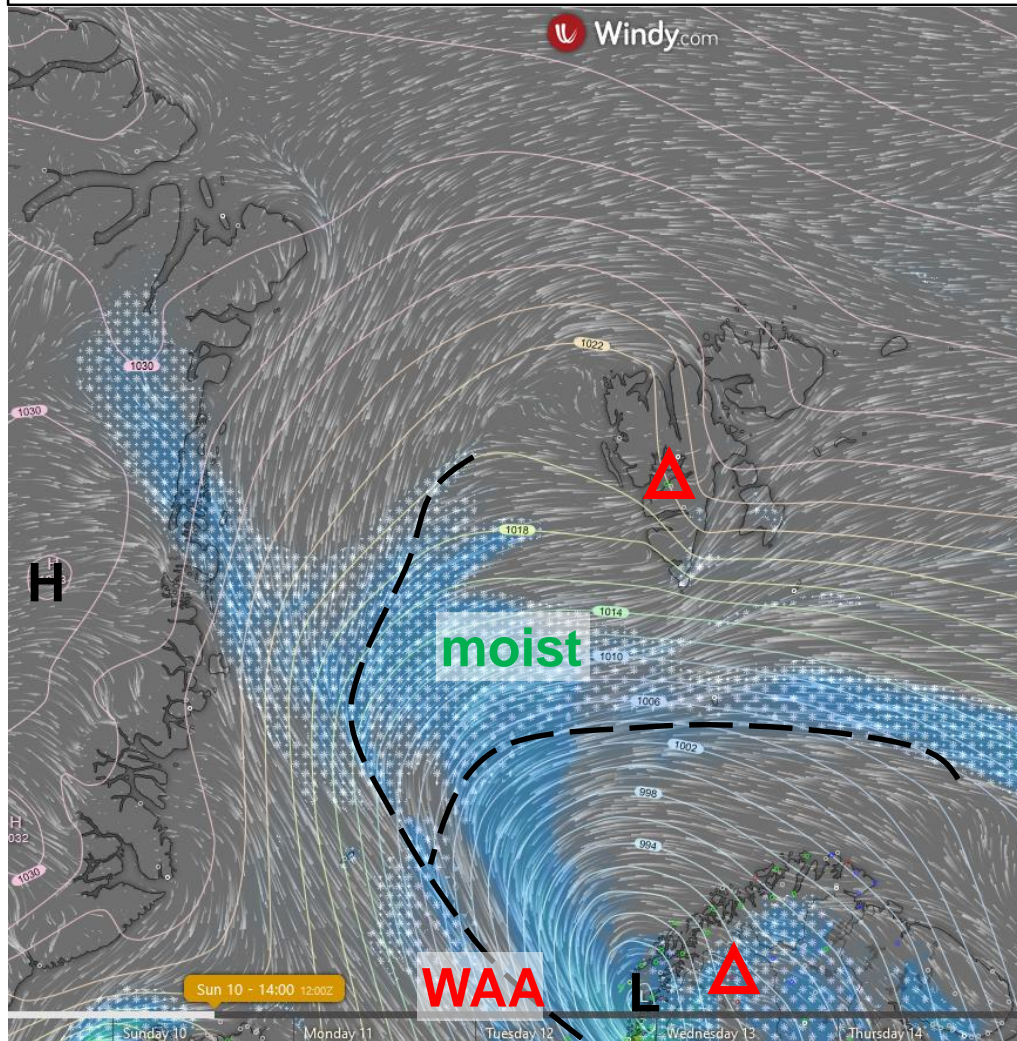


ICON

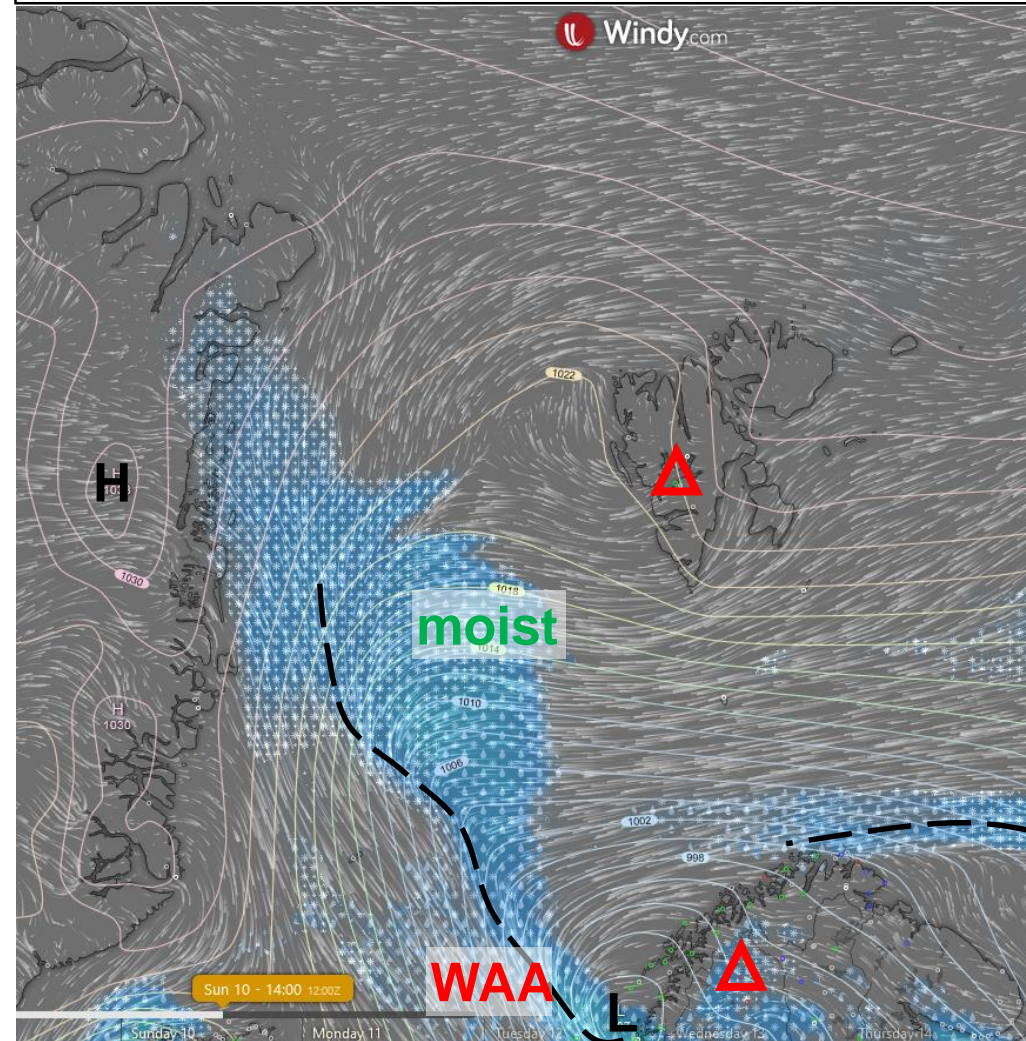


Sunday, 2022-04-10 12 UTC (+84h)

ECMWF

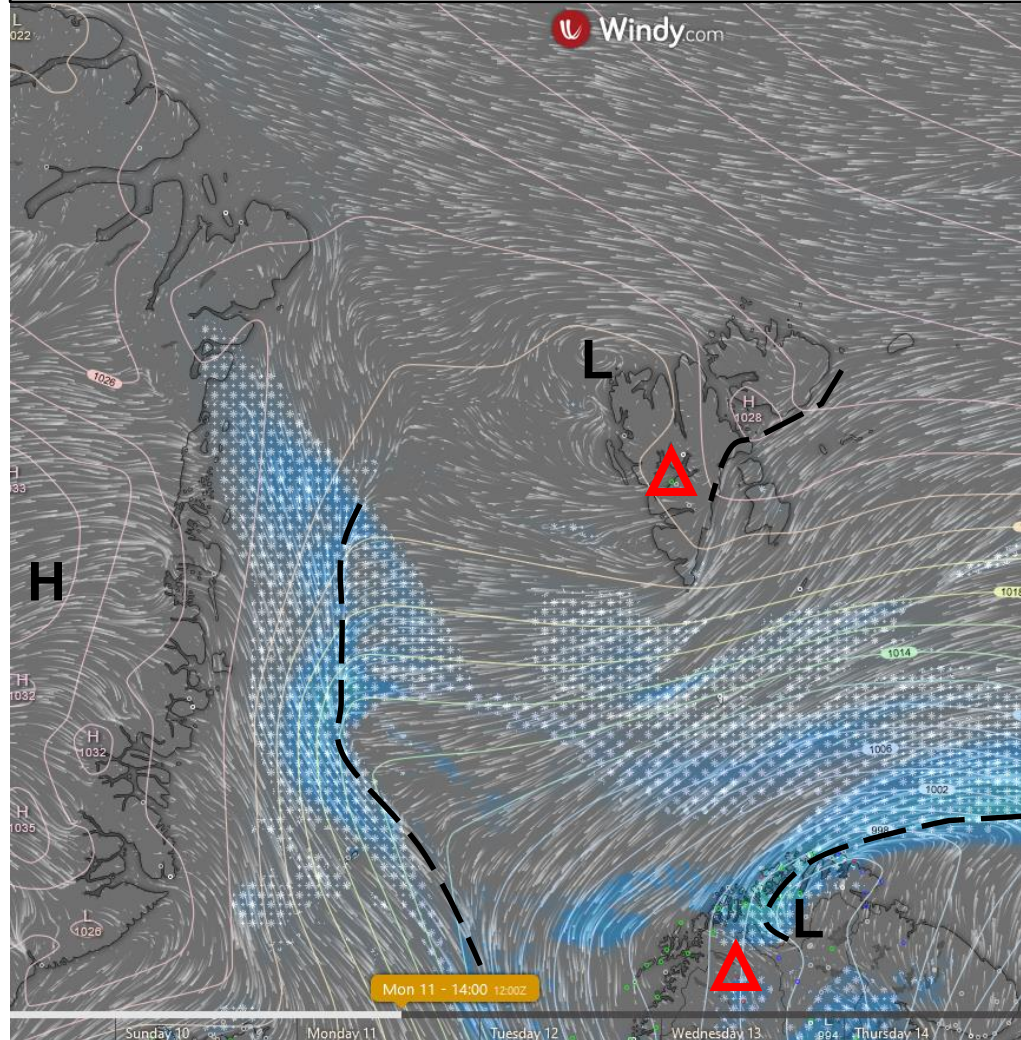


ICON

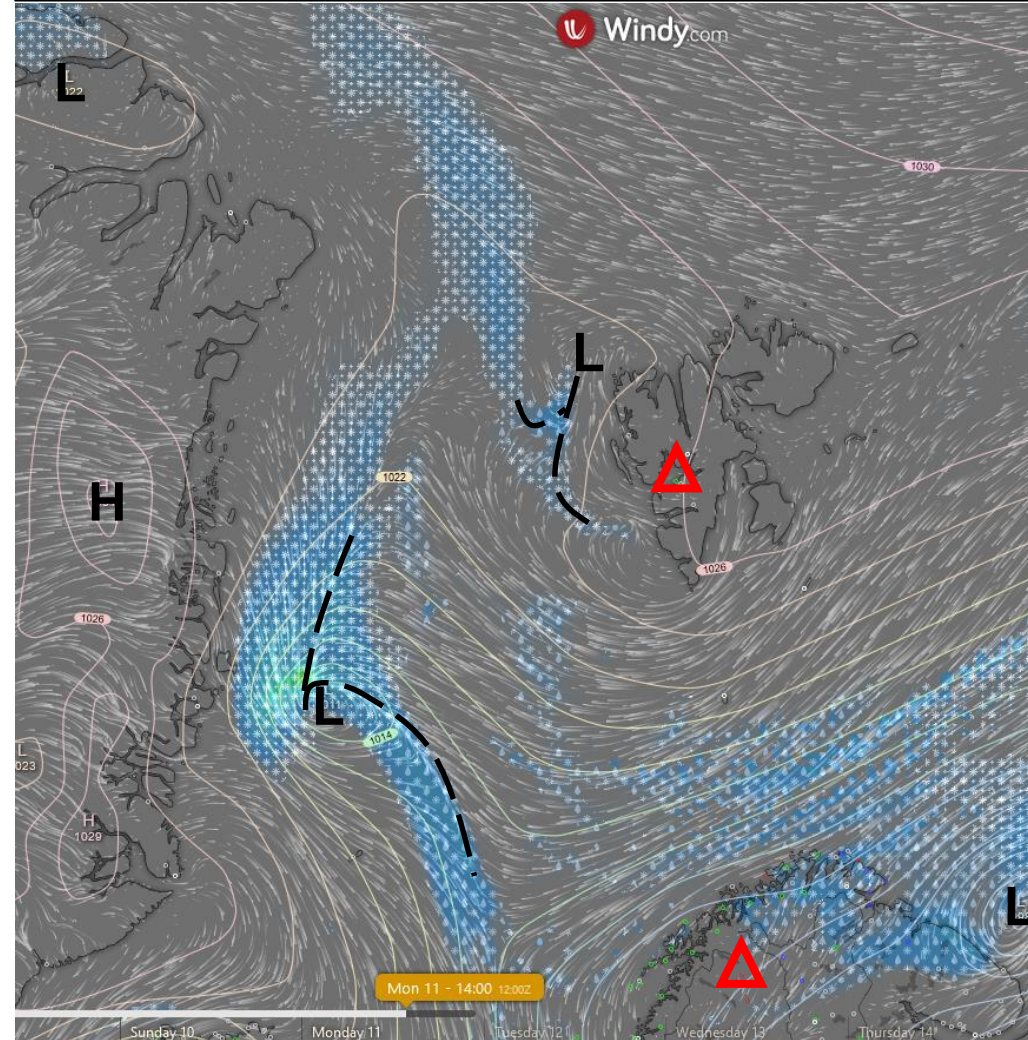


Monday, 2022-04-11 12 UTC (+108h)

ECMWF



ICON



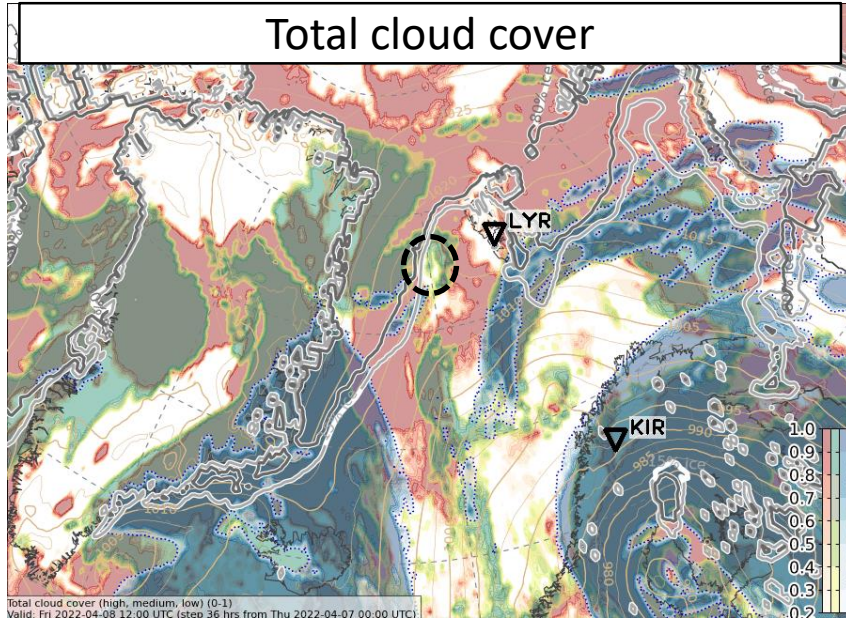
Cloud cover, CAO index, Airmasses, IVT

2022-04-07 00 UTC: 36 – 108h

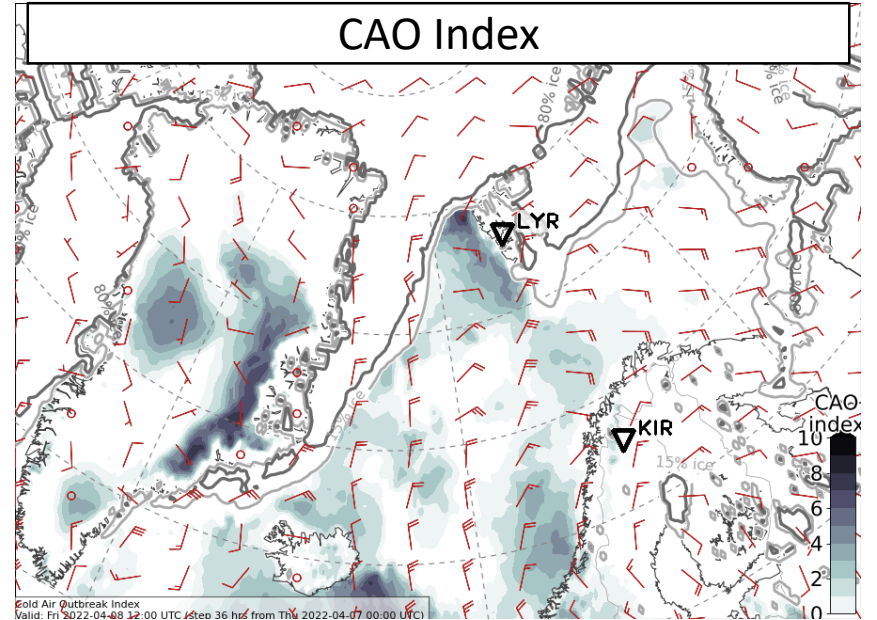
Cloud cover & 850hPa θ_e & CAO & IVT

Fri, 2022-04-08 12 UTC (+36h)

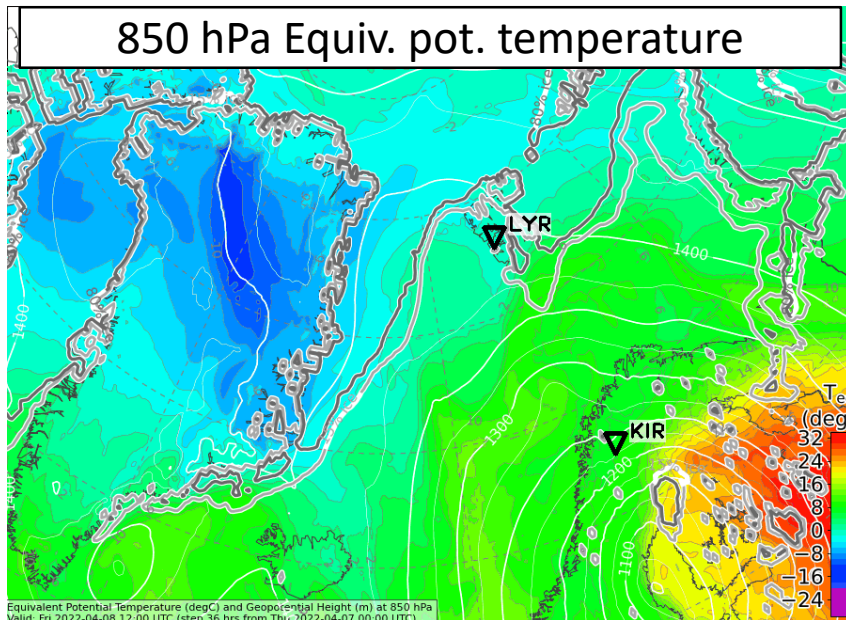
Total cloud cover



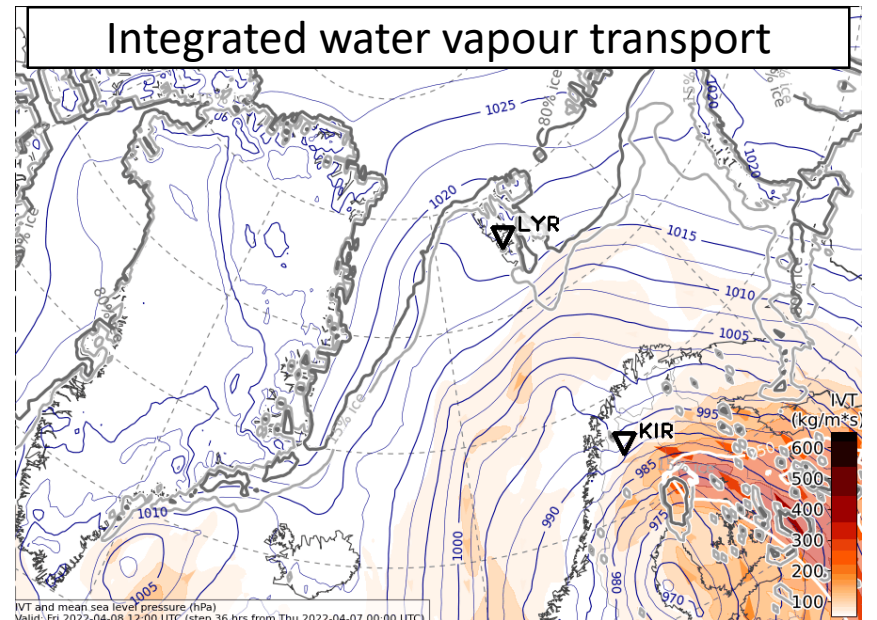
CAO Index



850 hPa Equiv. pot. temperature

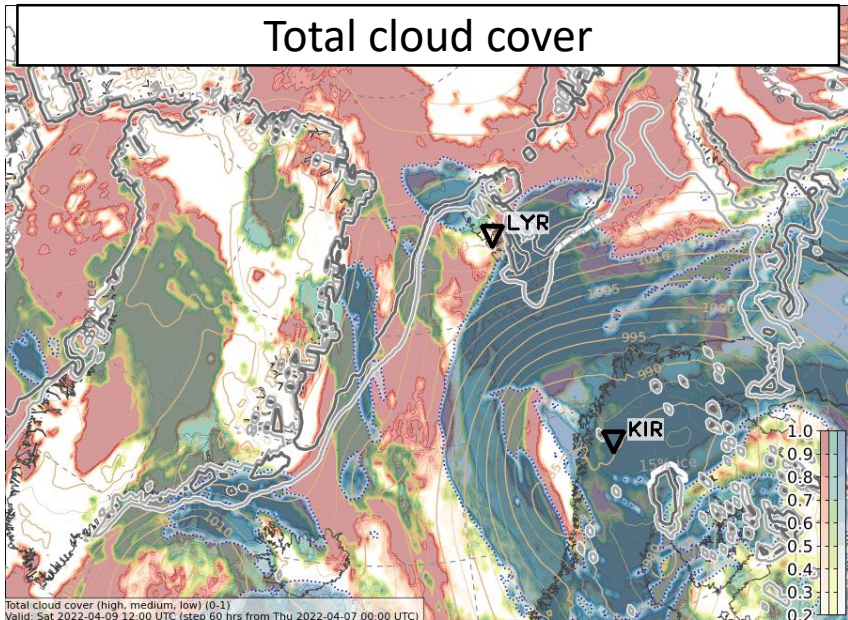


Integrated water vapour transport

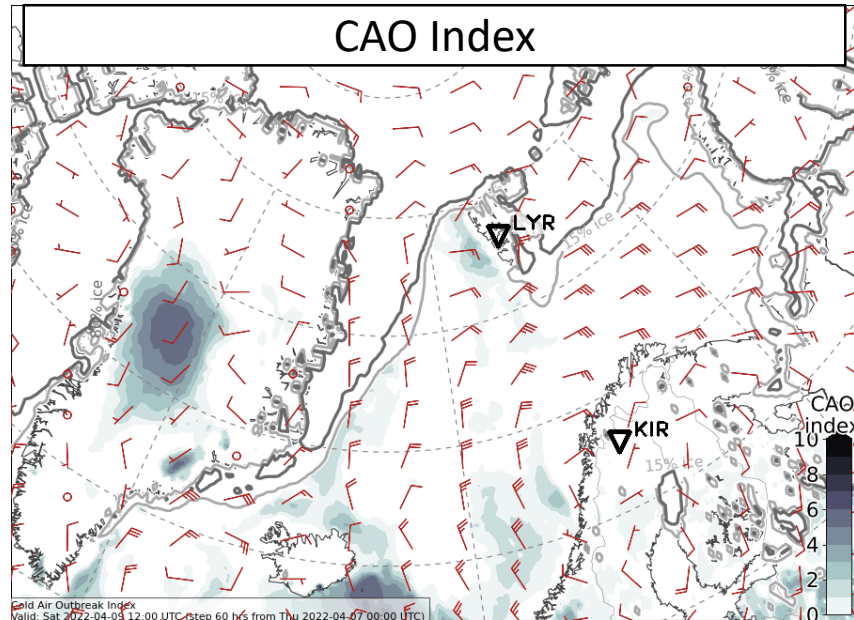


Sat, 2022-04-09 12 UTC (+60h)

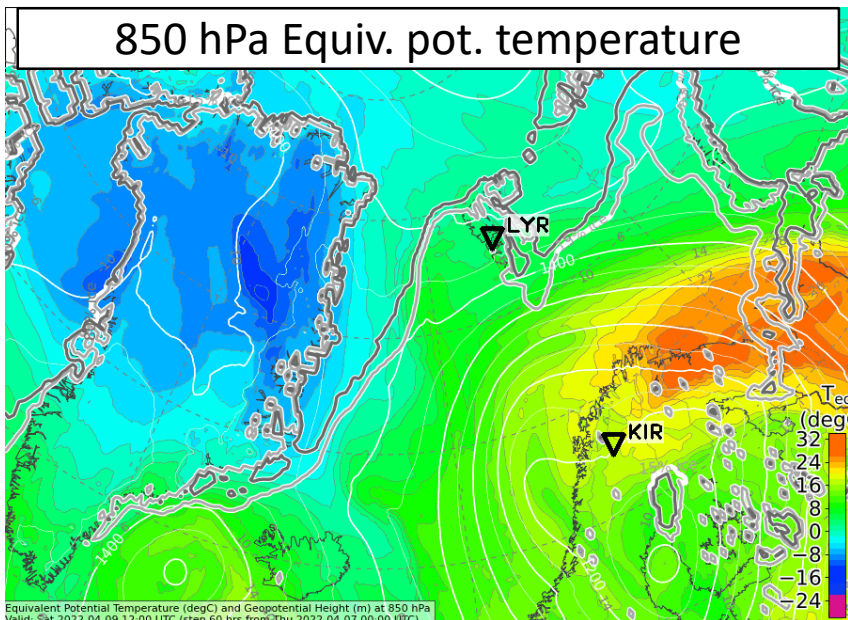
Total cloud cover



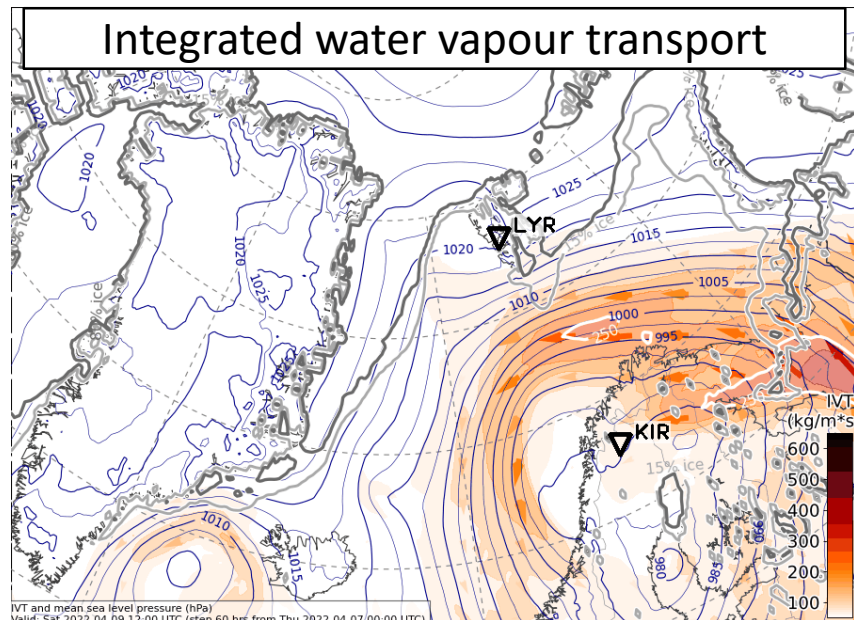
CAO Index



850 hPa Equiv. pot. temperature

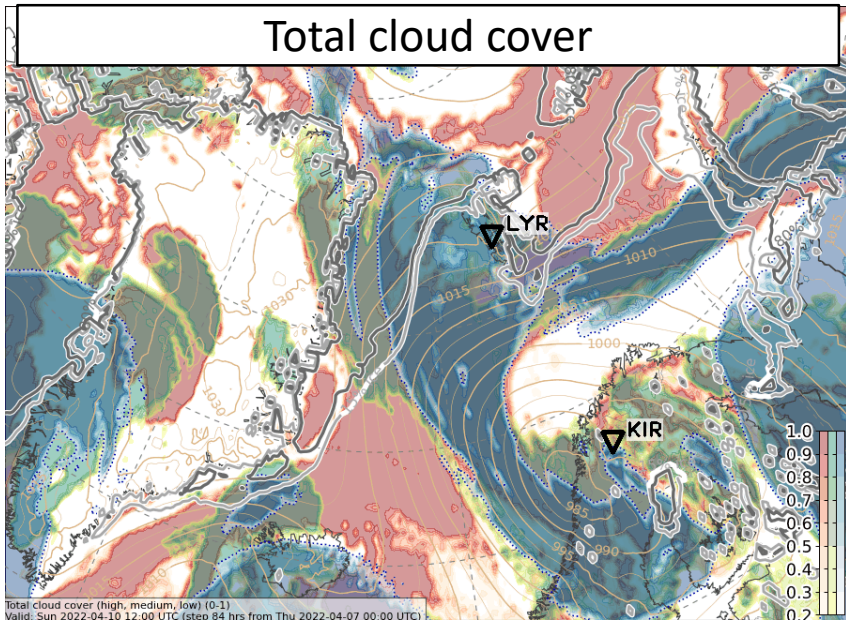


Integrated water vapour transport

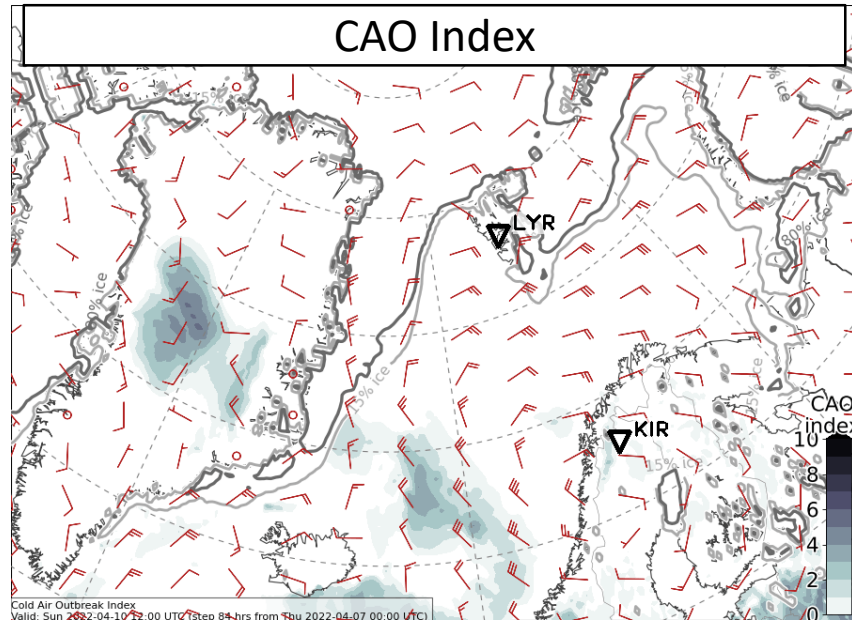


Sun, 2022-04-10 12 UTC (+84h)

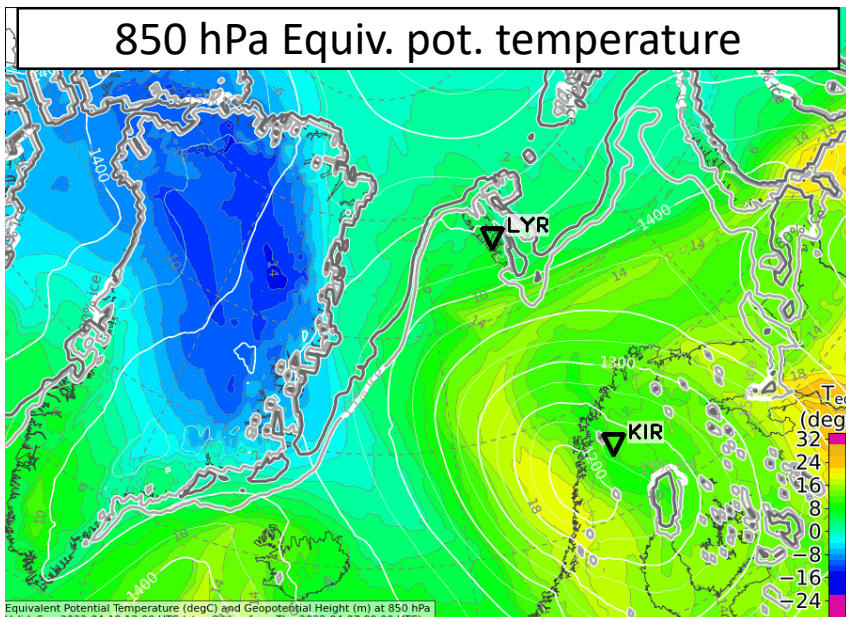
Total cloud cover



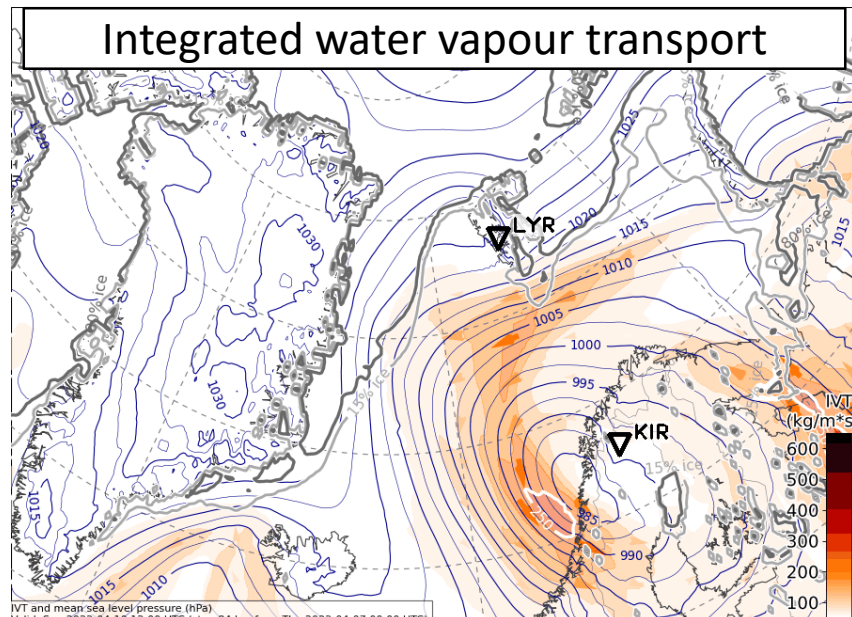
CAO Index



850 hPa Equiv. pot. temperature

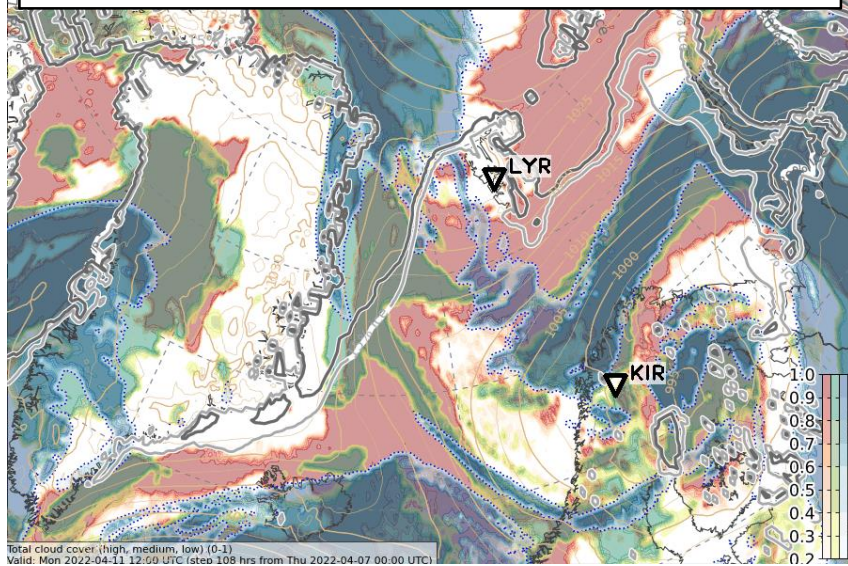


Integrated water vapour transport

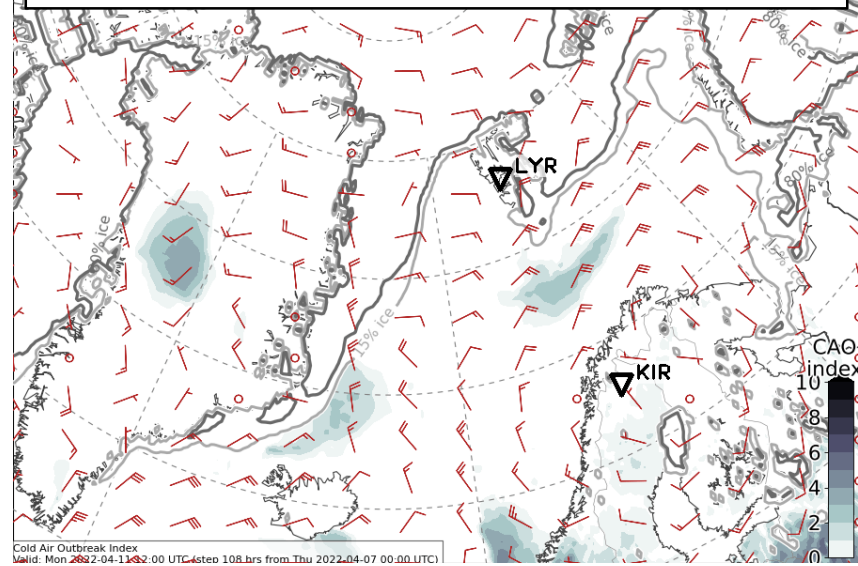


Mon, 2022-04-11 12 UTC (+108h)

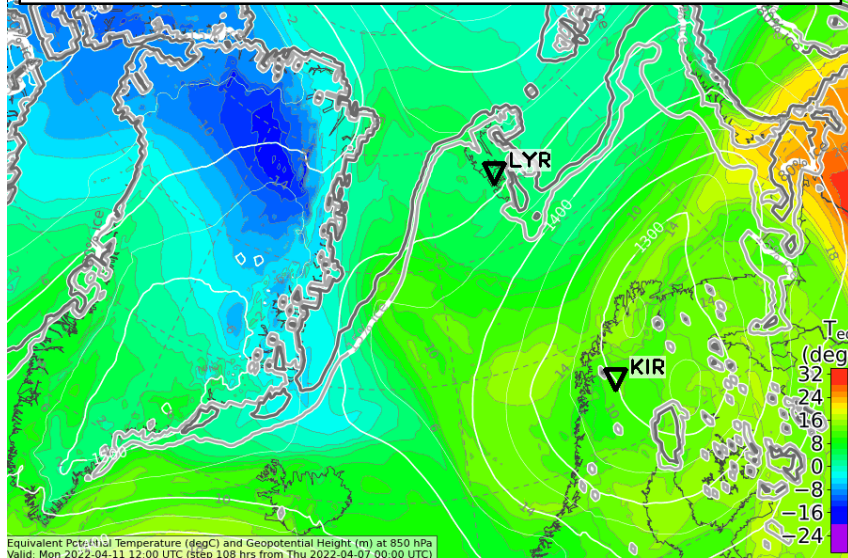
Total cloud cover



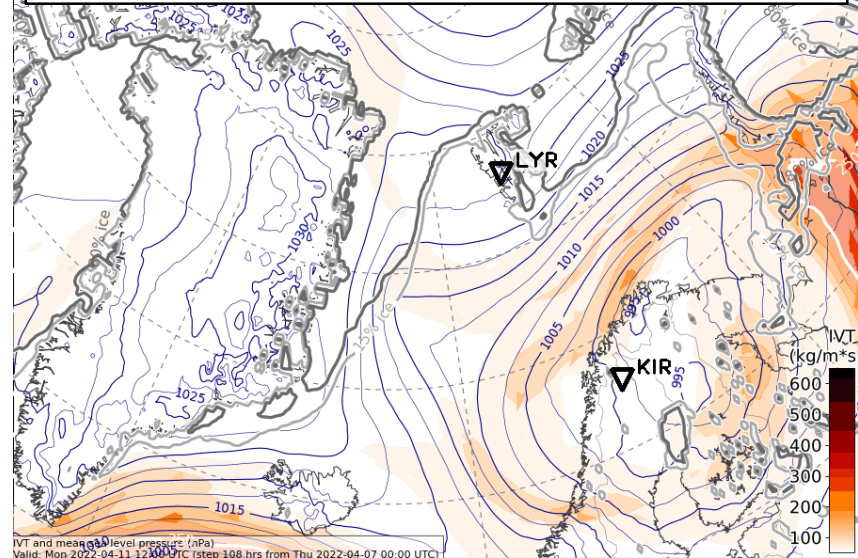
CAO Index



850 hPa Equiv. pot. temperature



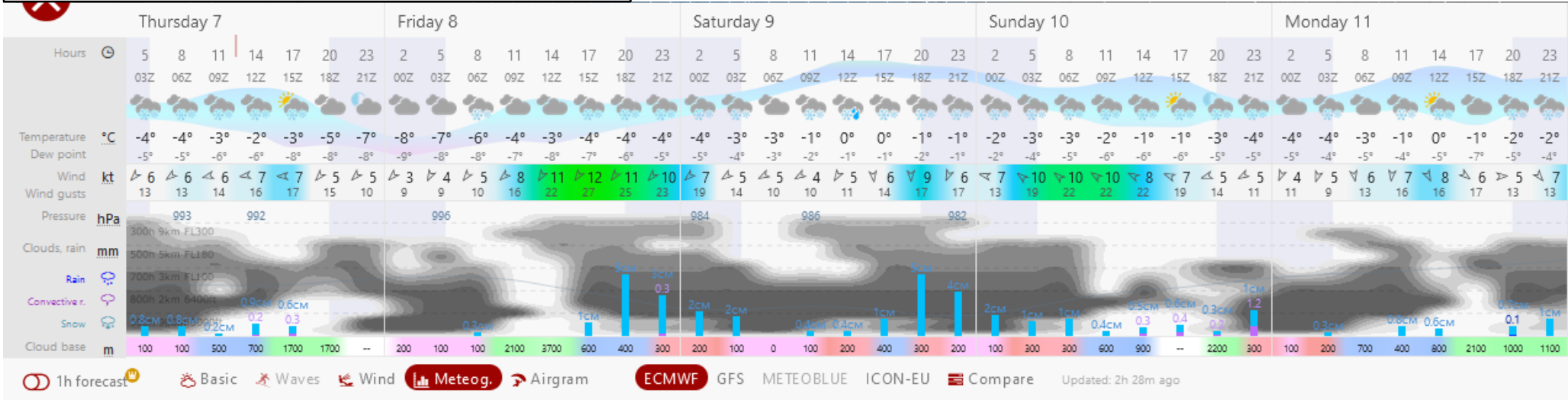
Integrated water vapour transport



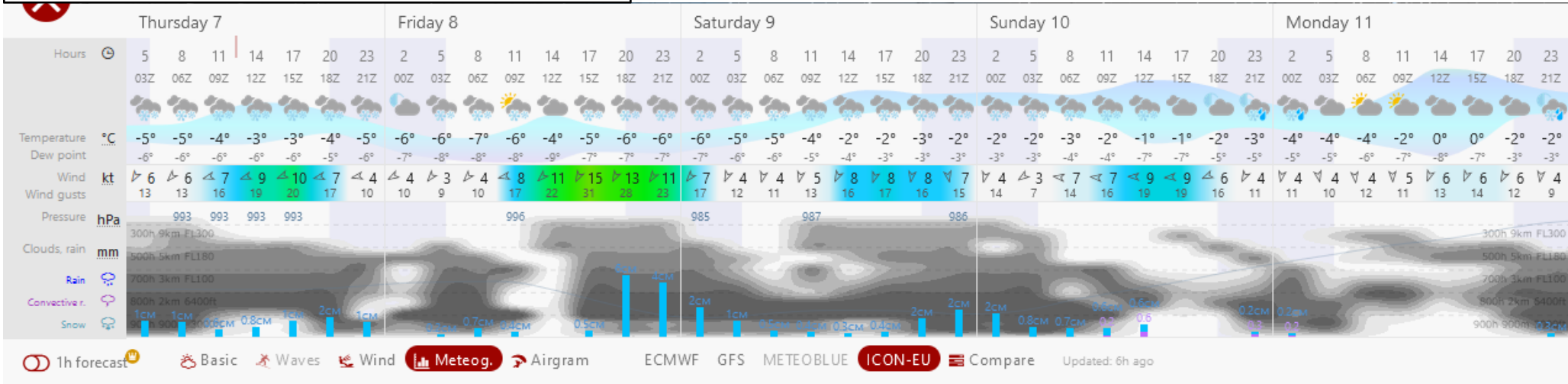
Airport meteograms & local weather at Svalbard

Kiruna:

ECWMF

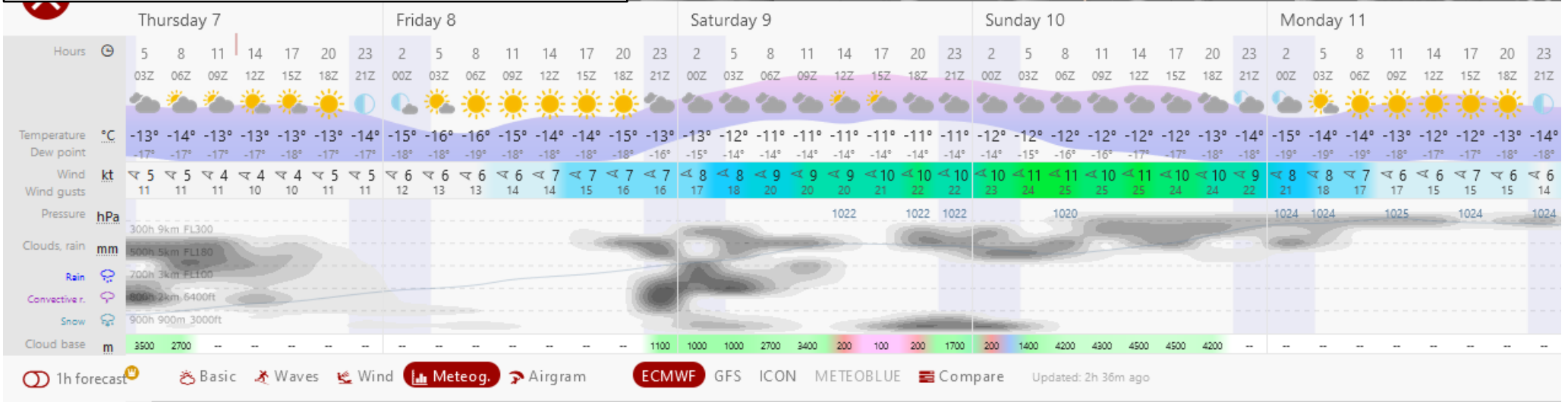


ICON

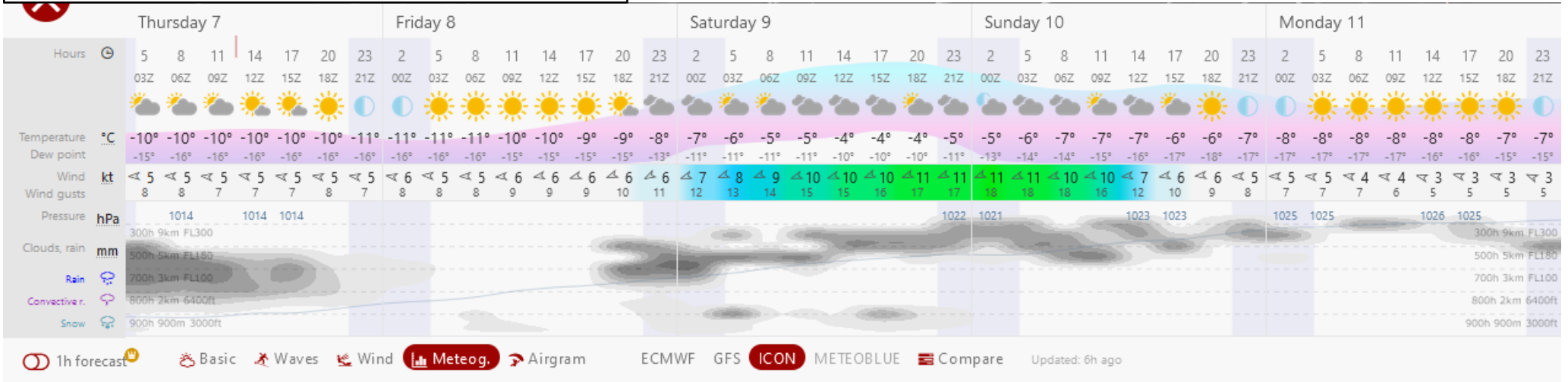


Longyearbyen:

ECWMF



ICON



Summary

Summary: Weather Briefing 2022-04-07, 17:00 LT

- **Overall**
 - Low pressure influence in Kiruna causing challenging weather conditions
 - Persistent easterly flow over Svalbard → mostly favourable flight conditions
- **Friday, 2022-04-08:**
 - Position of polar low over Fram Strait still different in different models
 - Front passage in Kiruna in the evening
- **Saturday, 2022-04-09:**
 - WAA with south-easterly flow over Barents Sea
 - Warm front in Center of Fram Strait
 - Some low-level clouds in LYR
- **Sunday, 2022-04-10:**
 - WAA from the North west of Scandinavia (cycled around Scandinavian low)
 - Extended cirrus fields over Fram Strait
- **Monday, 2022-04-11:**
 - Probably formation of new polar low