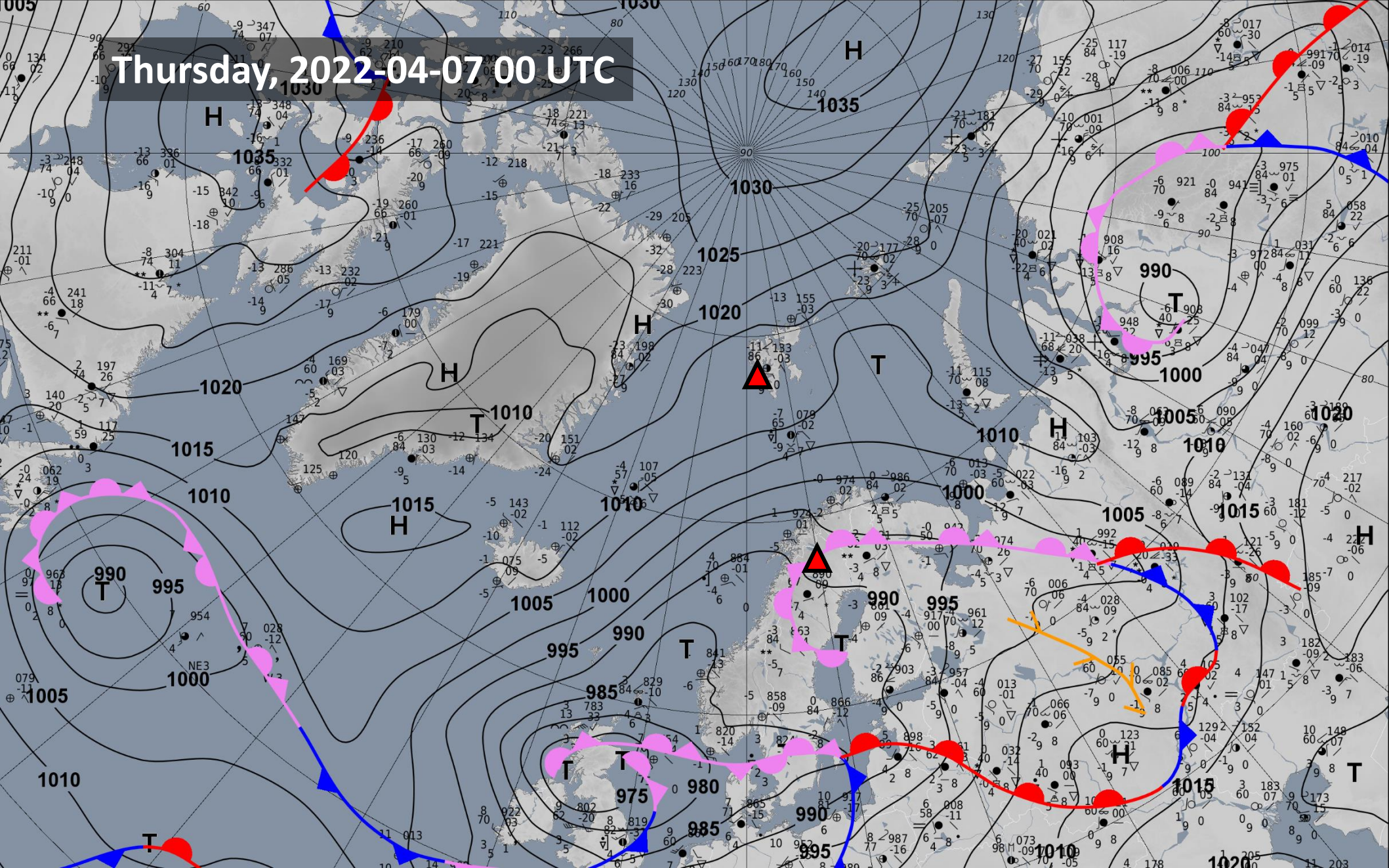


# Weather briefing HALO-(AC)<sup>3</sup>

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

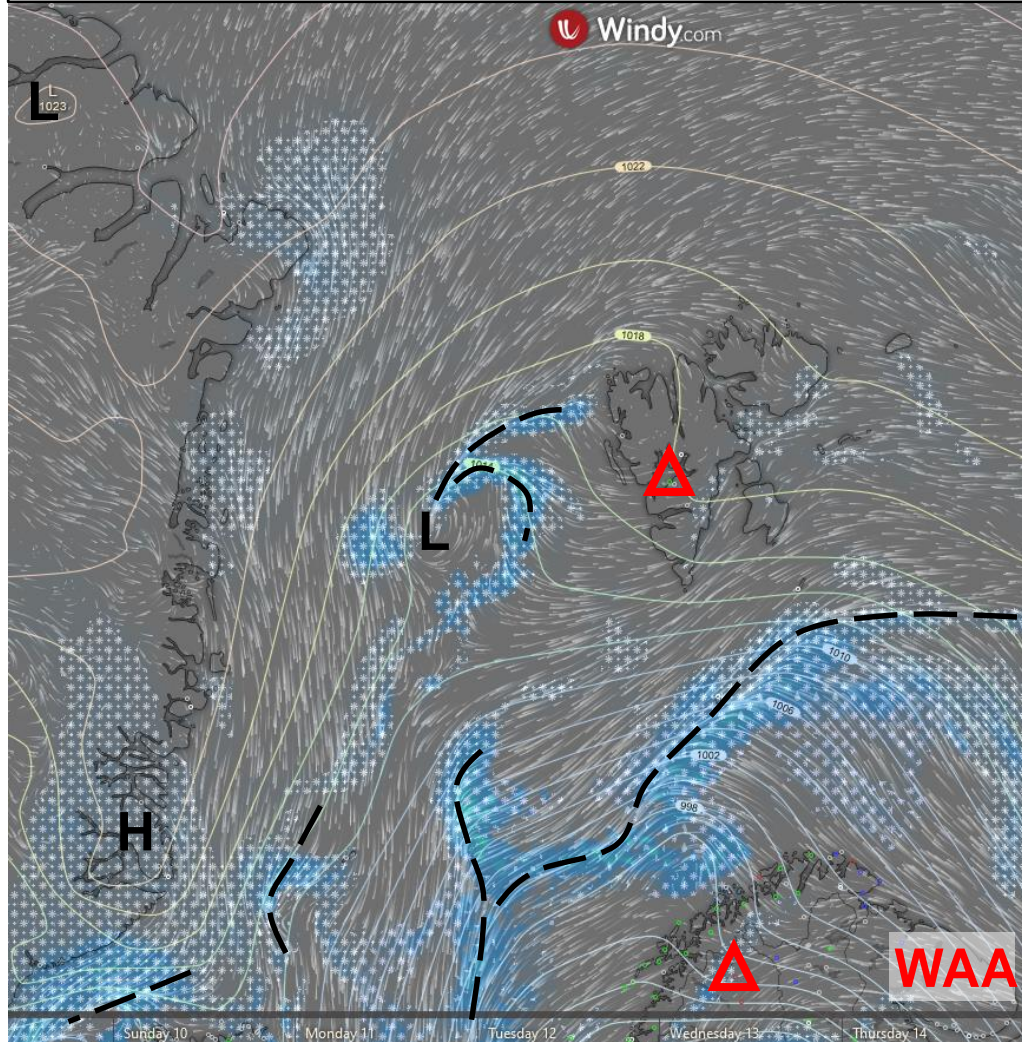
**CAA: Cold Air Advection**

**WAA: Warm Air Advection**

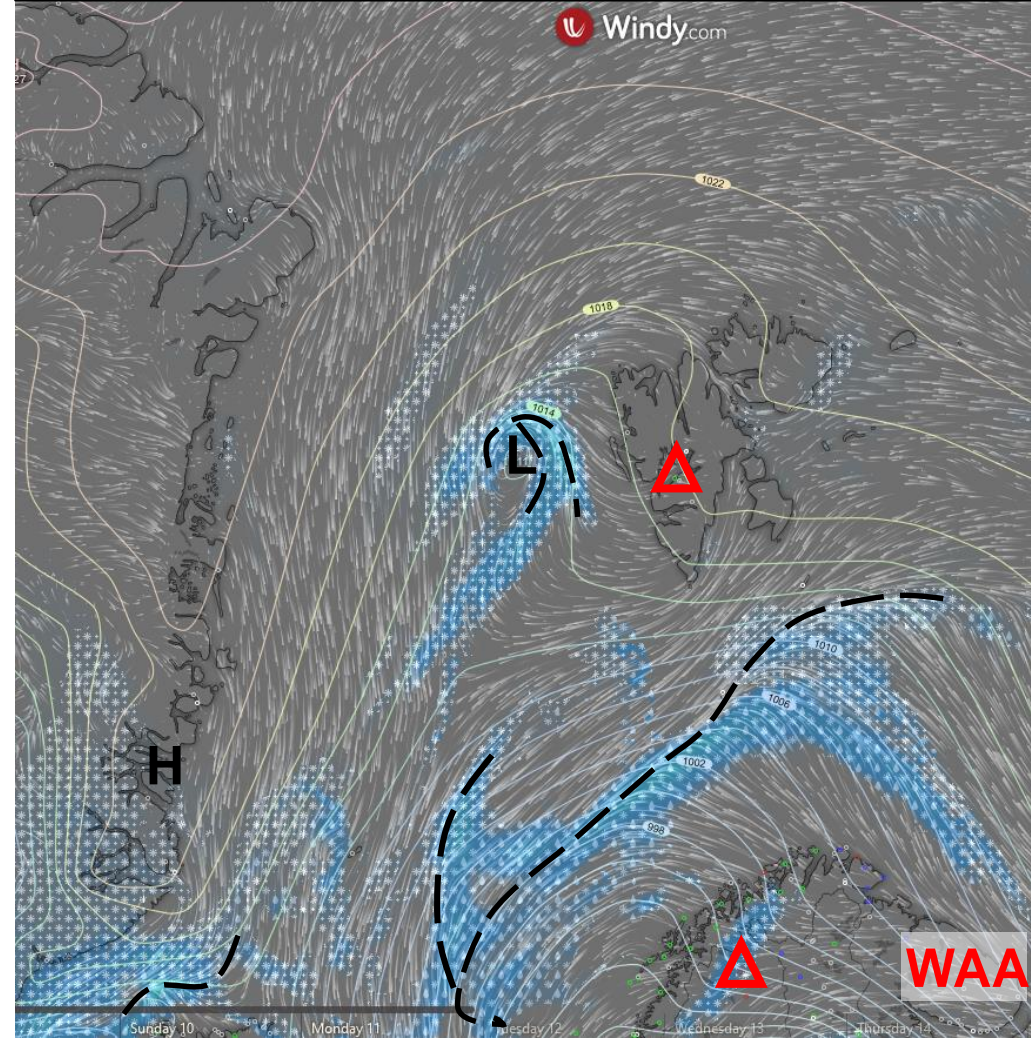


Friday, 2022-04-08 09 UTC (+33h)

ECMWF



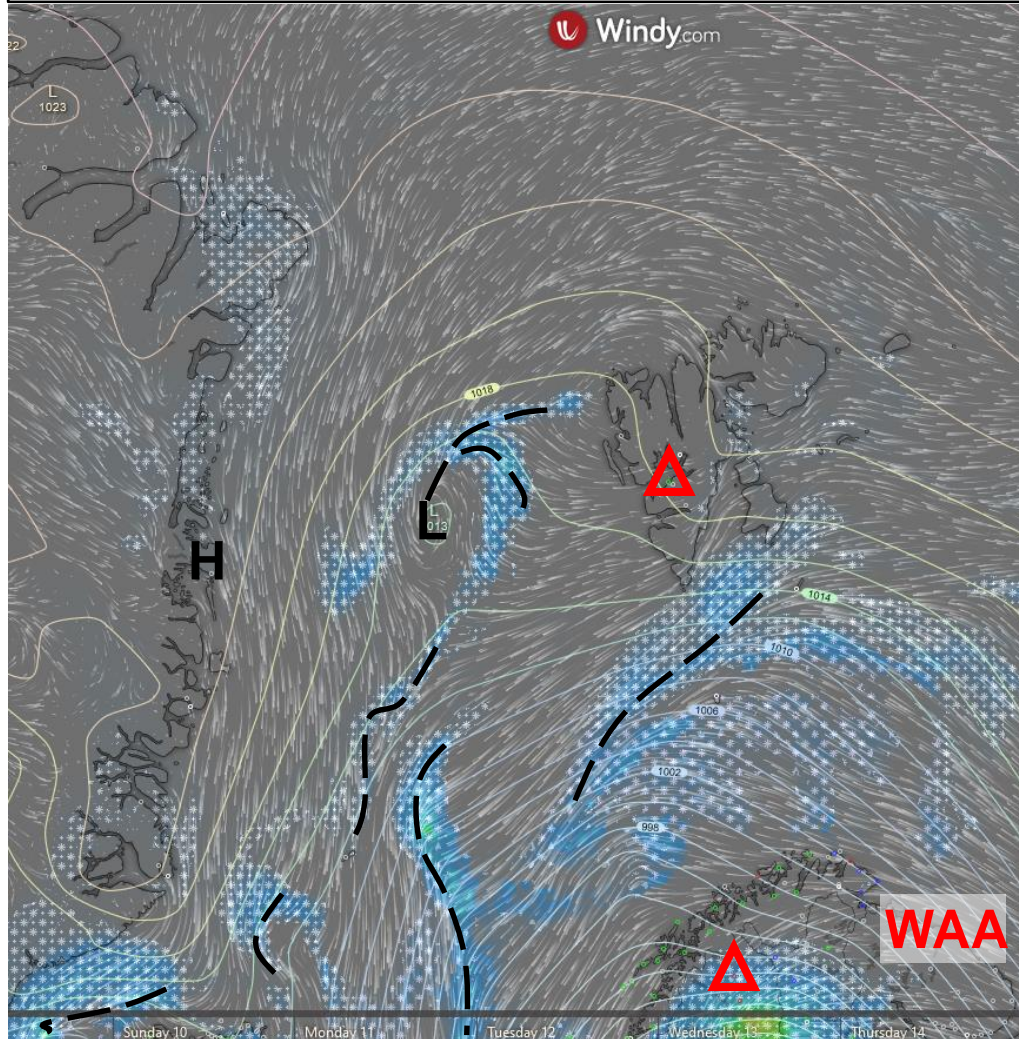
ICON



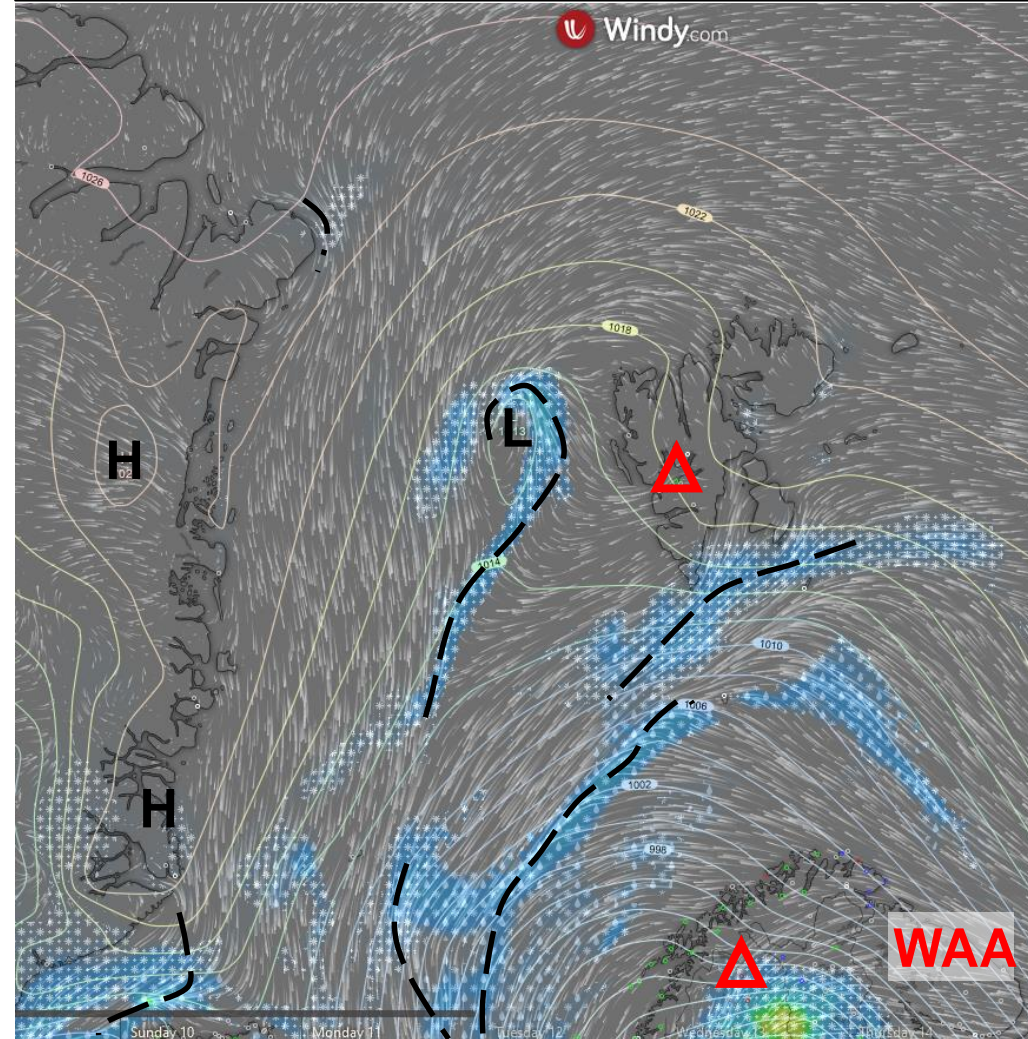


Friday, 2022-04-08 15 UTC (+39h)

ECMWF



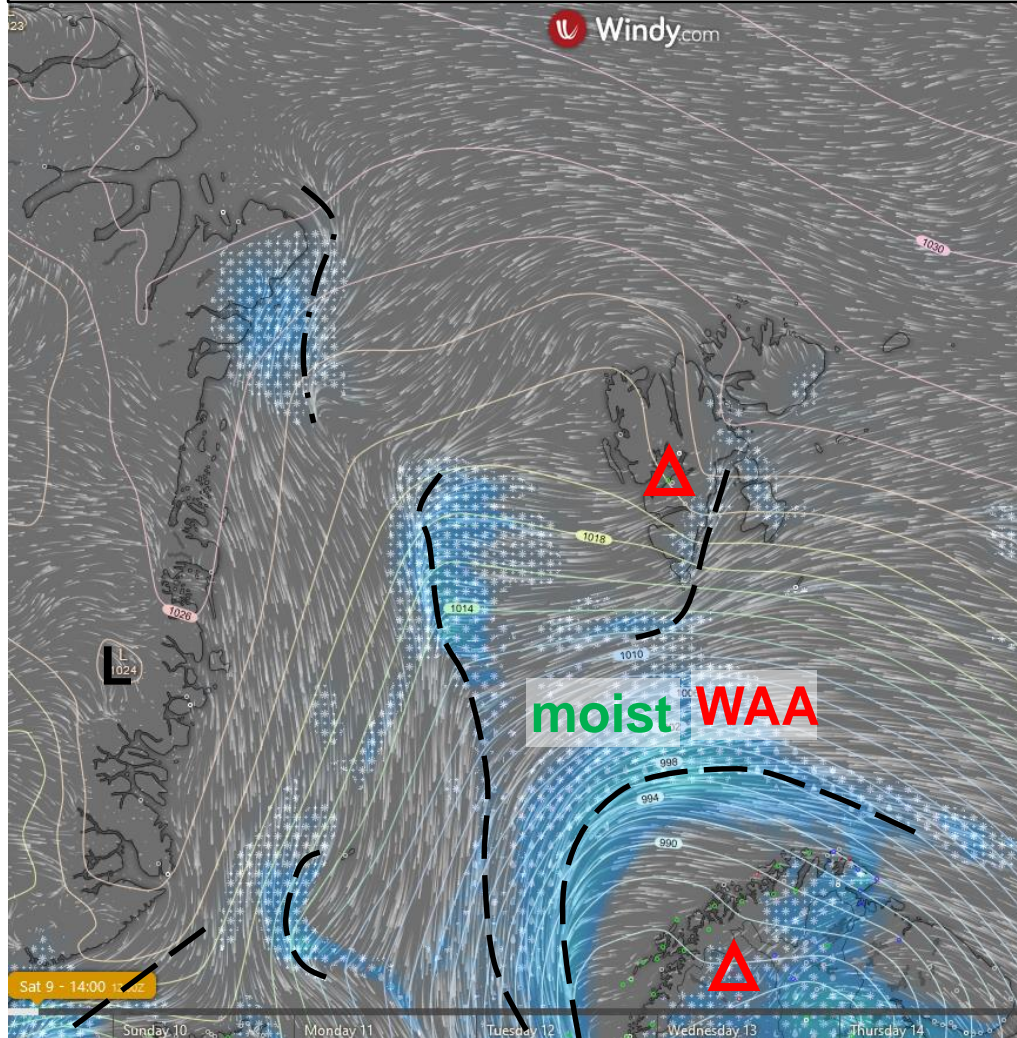
ICON



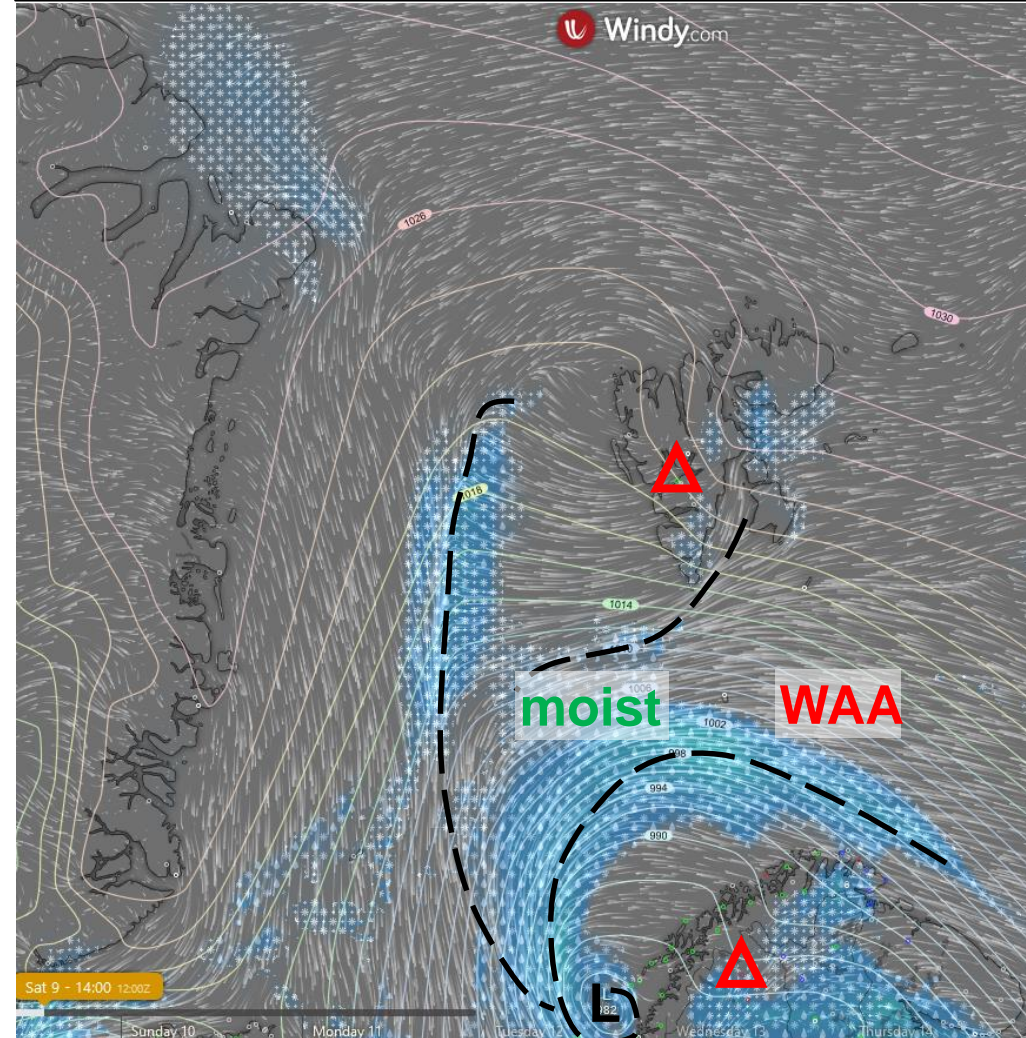


Saturday, 2022-04-09 12 UTC (+60h)

ECMWF



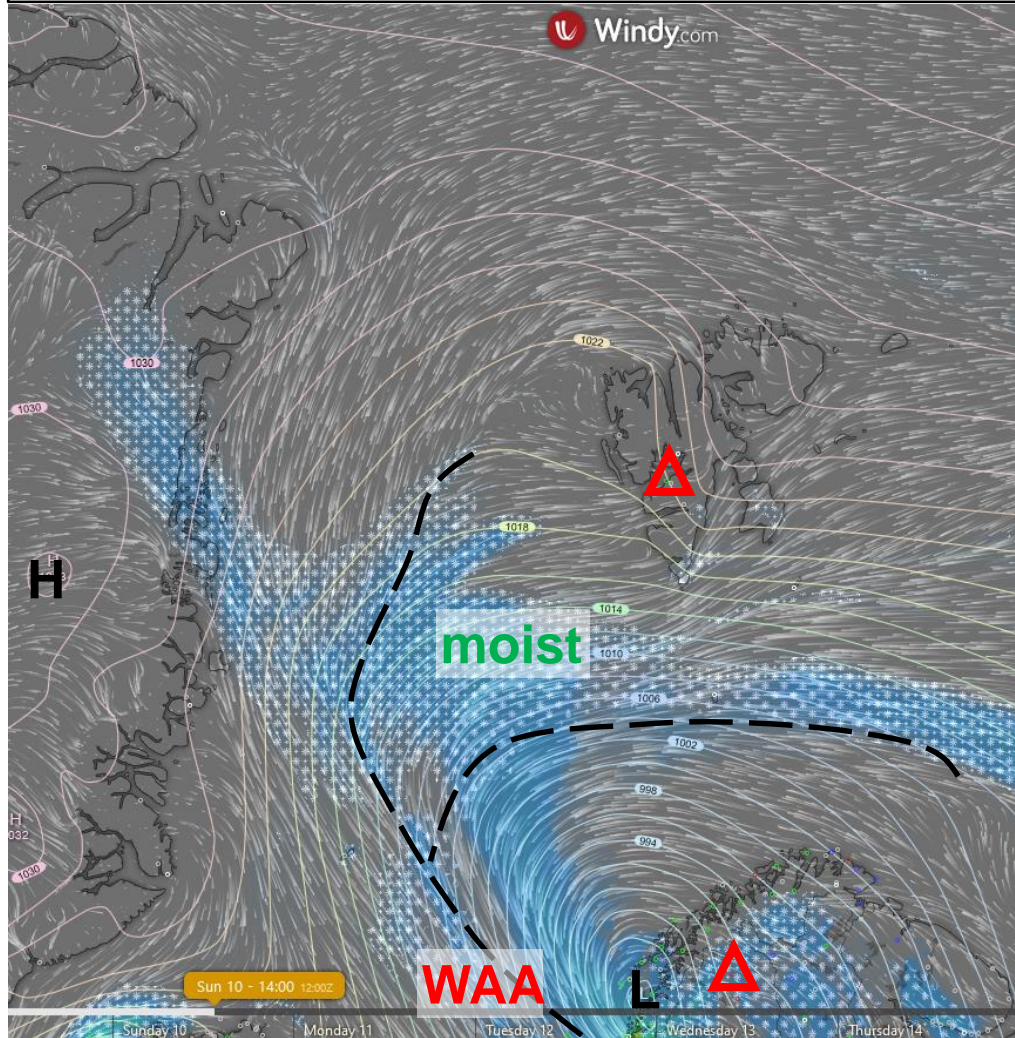
ICON



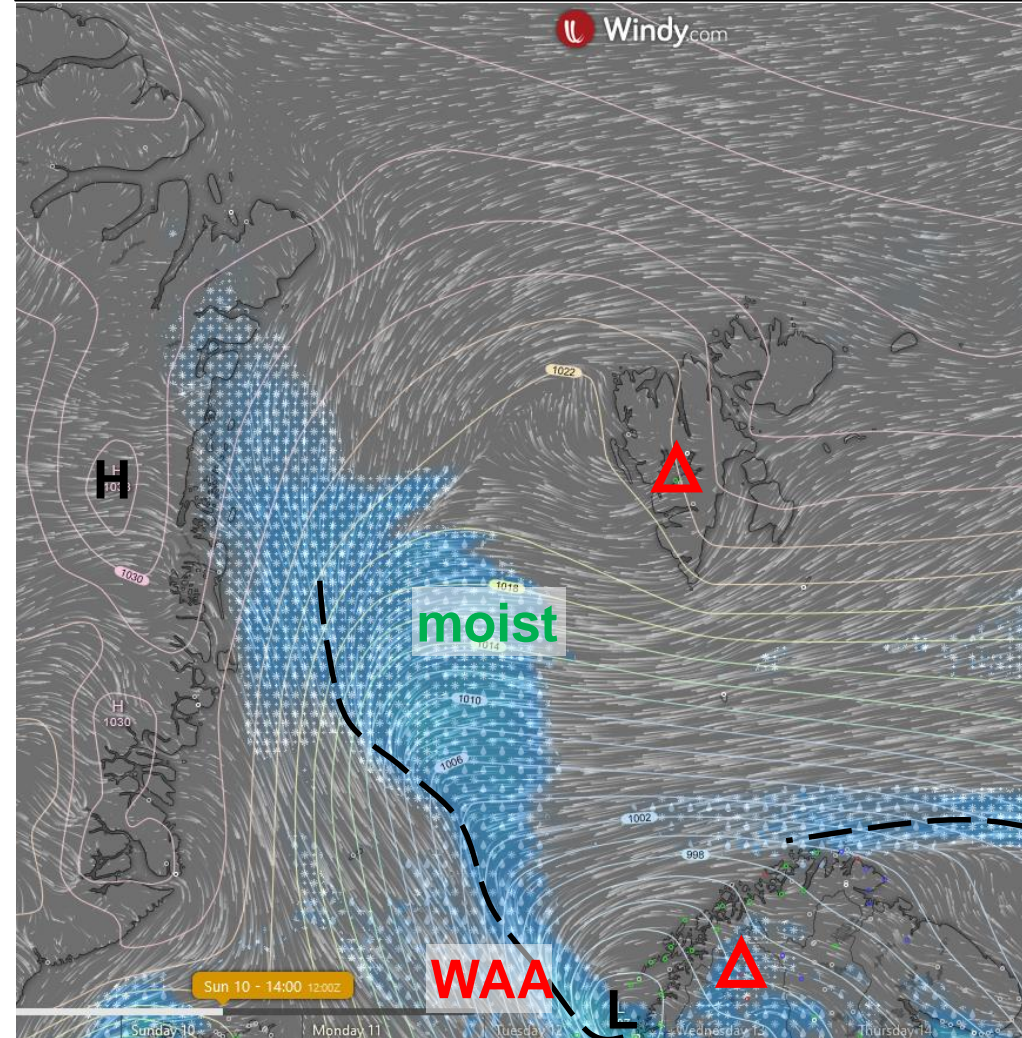


# Sunday, 2022-04-10 12 UTC (+84h)

ECMWF



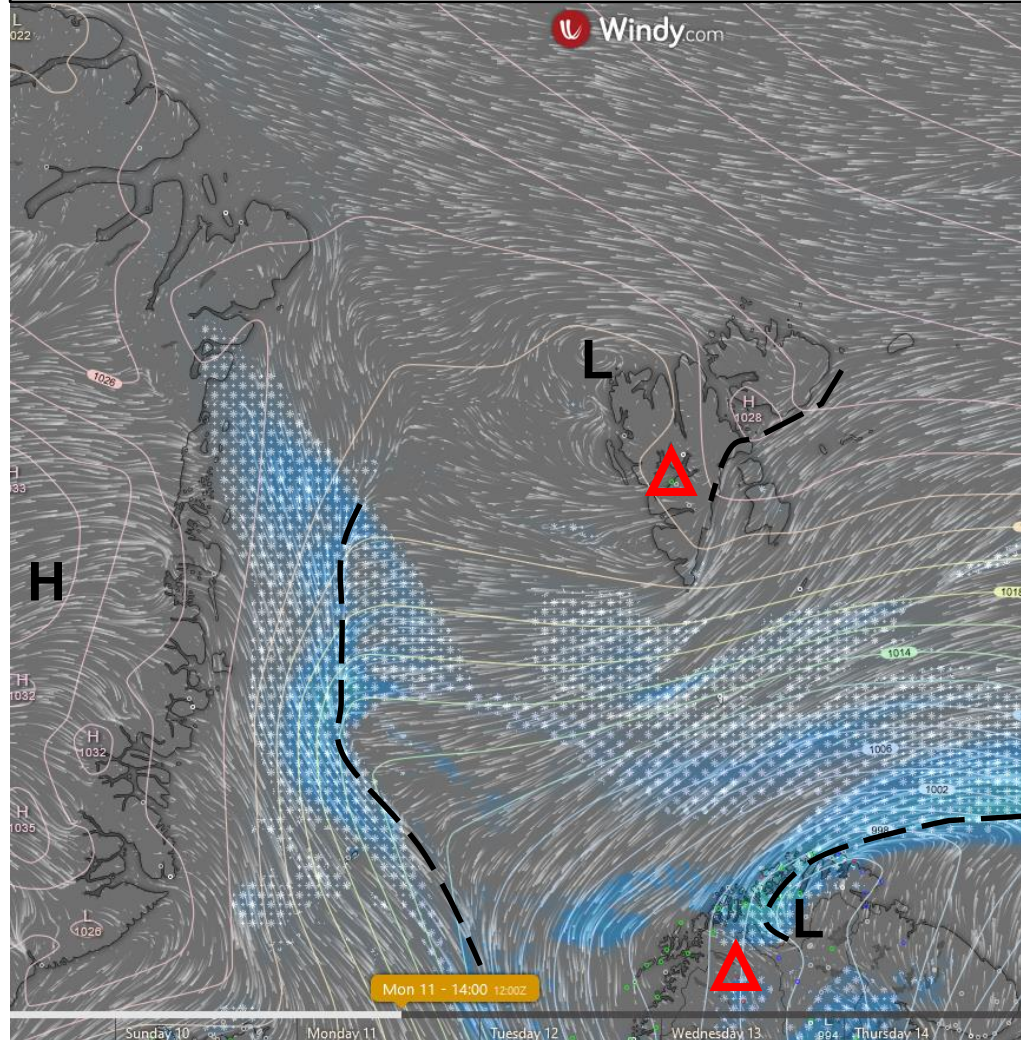
ICON



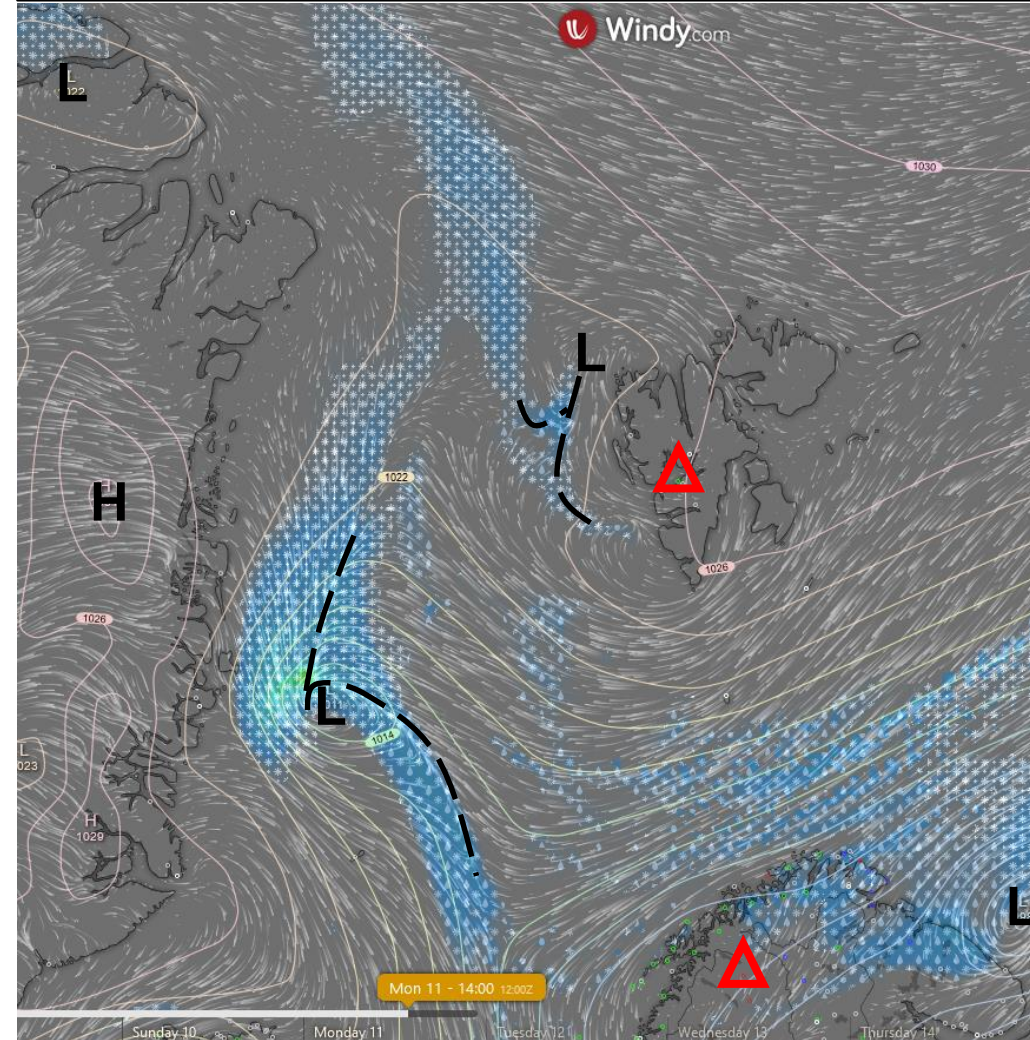


# Monday, 2022-04-11 12 UTC (+108h)

ECMWF



ICON





## **Cloud cover, CAO index, Airmasses, IVT**

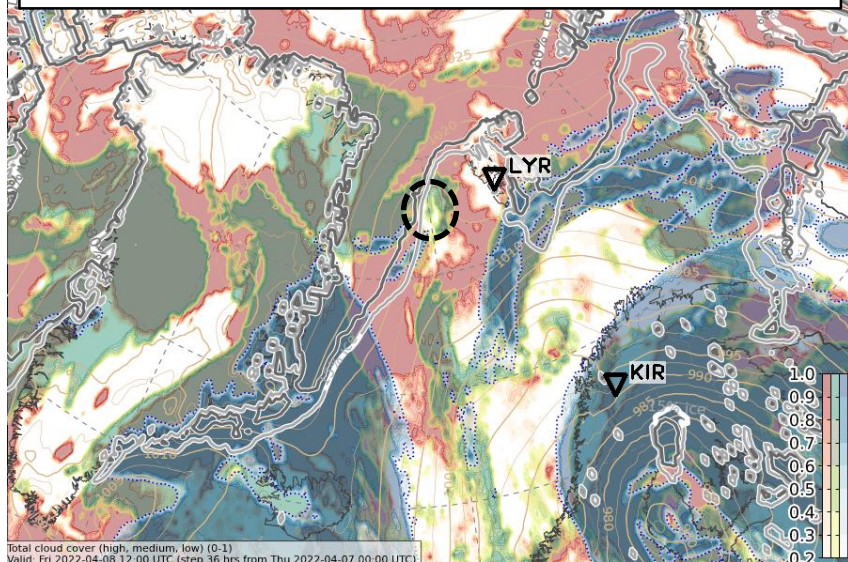
2022-04-07 00 UTC: 36 – 108h

Cloud cover & 850hPa  $\theta_e$  & CAO & IVT

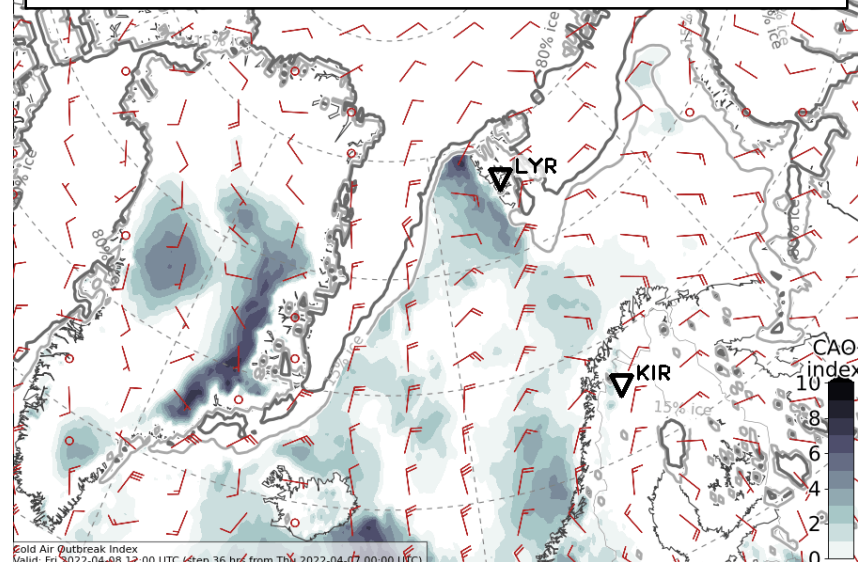


Fri, 2022-04-08 12 UTC (+36h)

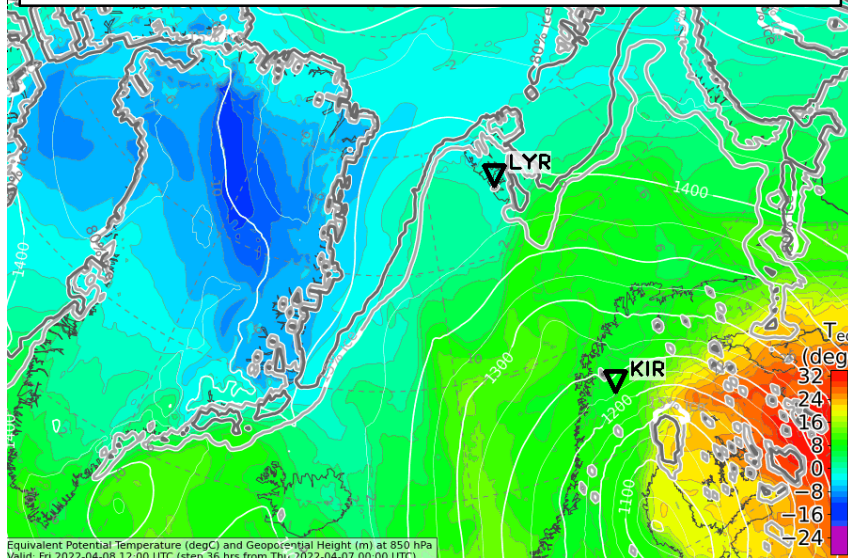
Total cloud cover



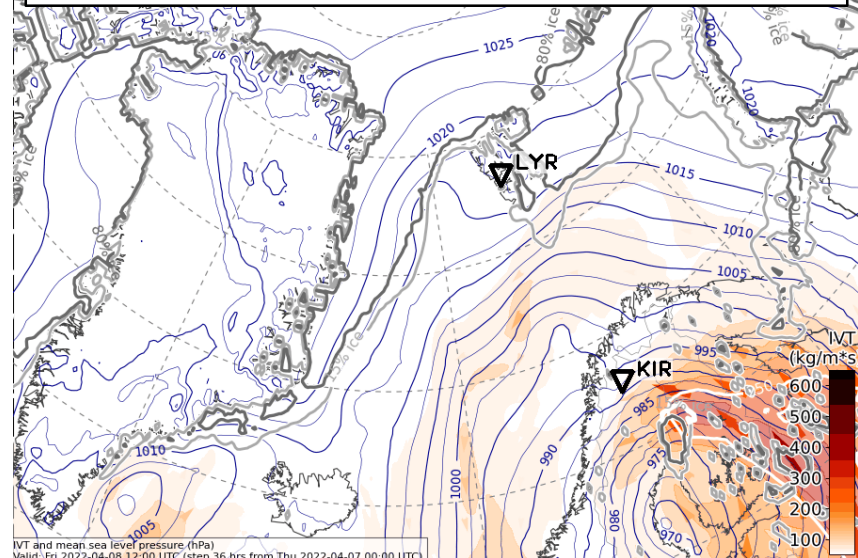
CAO Index



850 hPa Equiv. pot. temperature



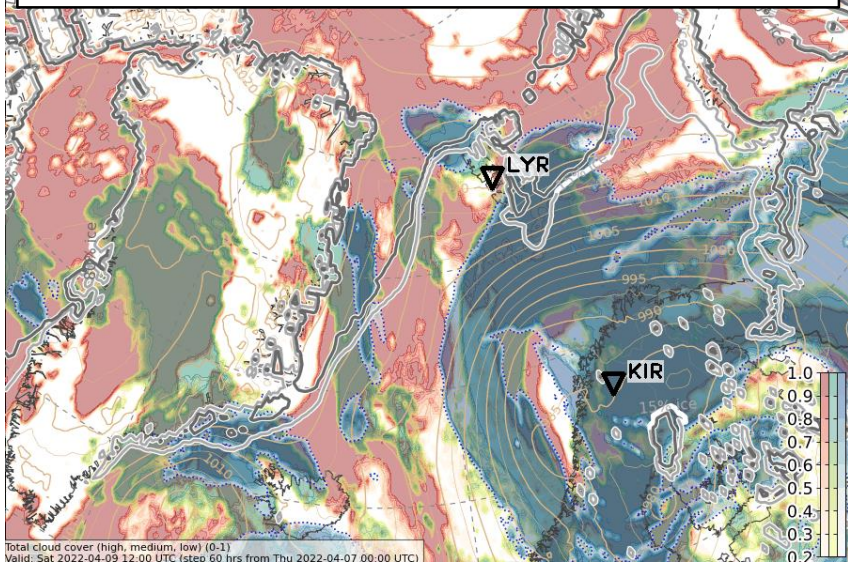
Integrated water vapour transport



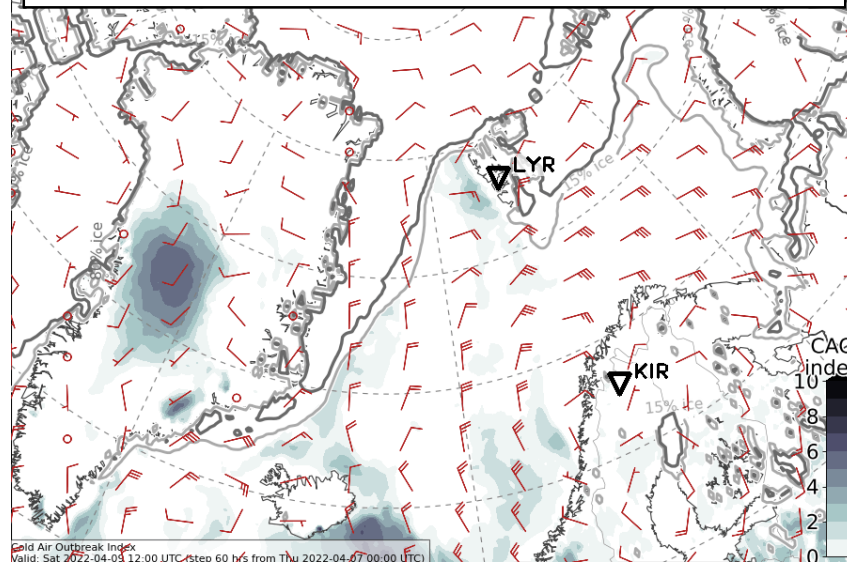


Sat, 2022-04-09 12 UTC (+60h)

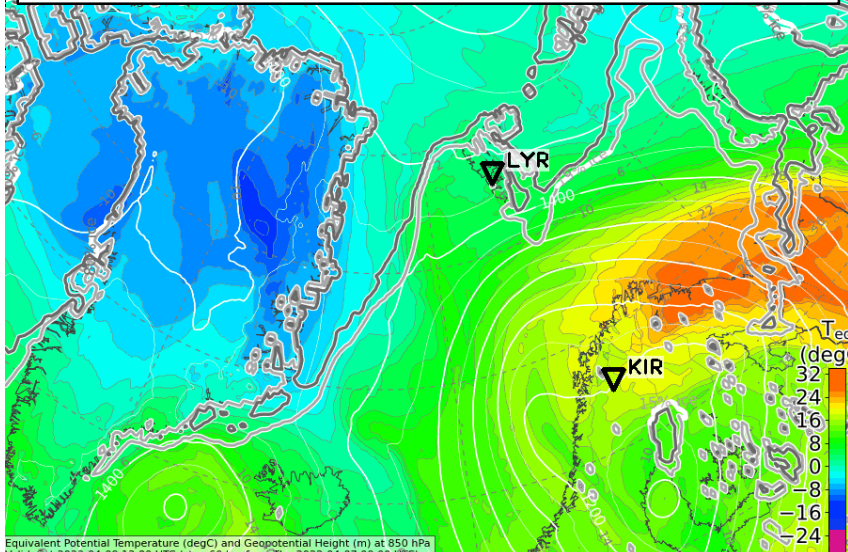
Total cloud cover



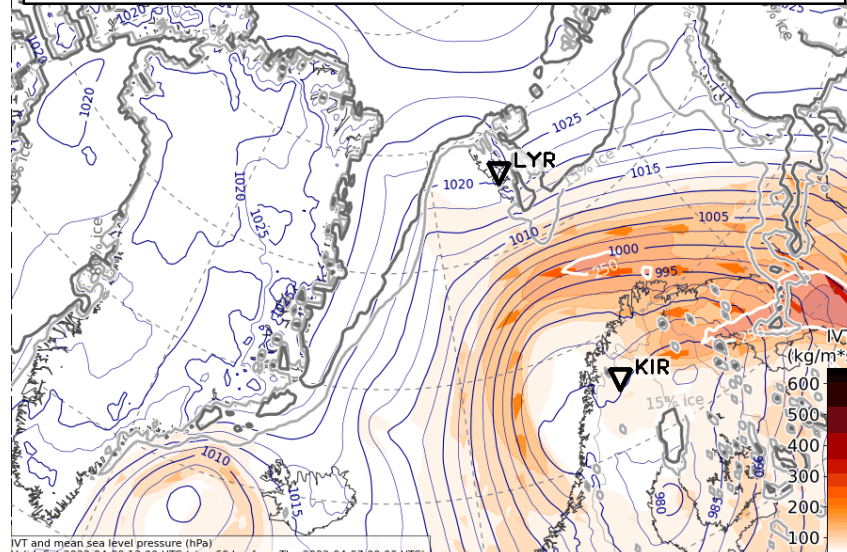
CAO Index



850 hPa Equiv. pot. temperature



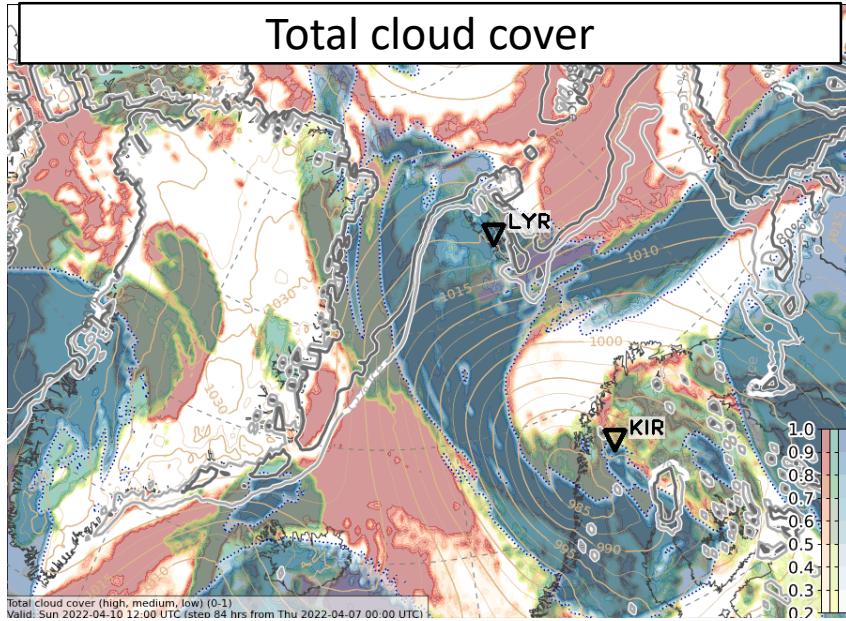
Integrated water vapour transport



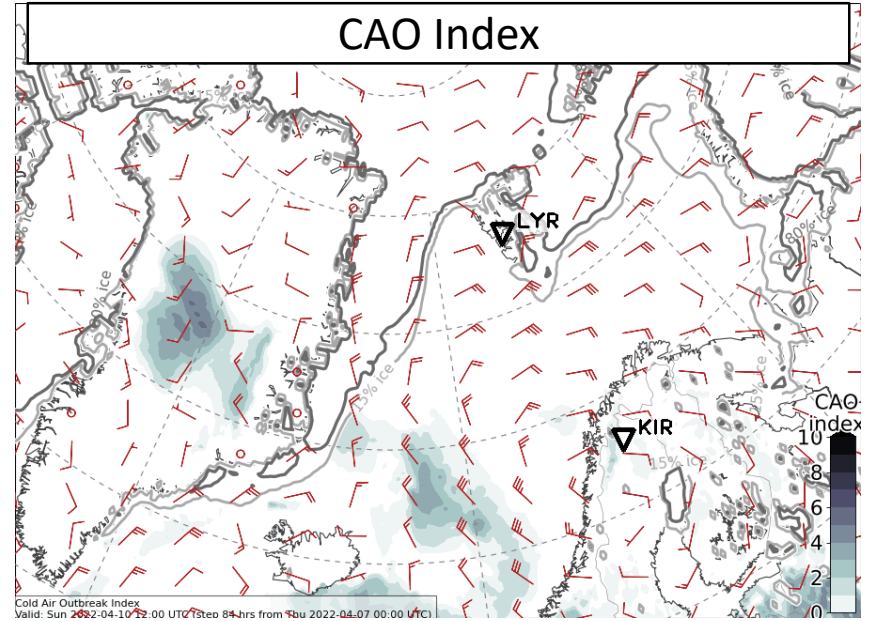


Sun, 2022-04-10 12 UTC (+84h)

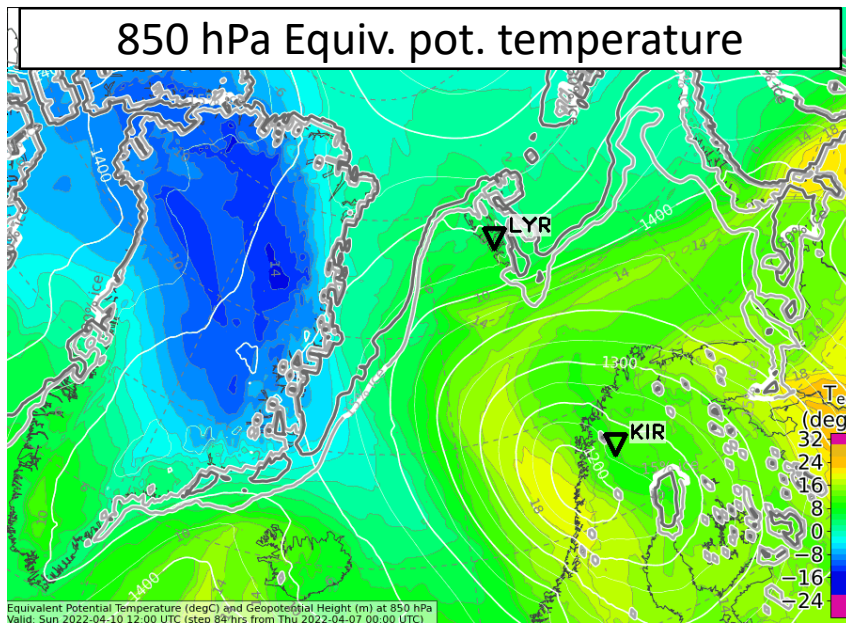
Total cloud cover



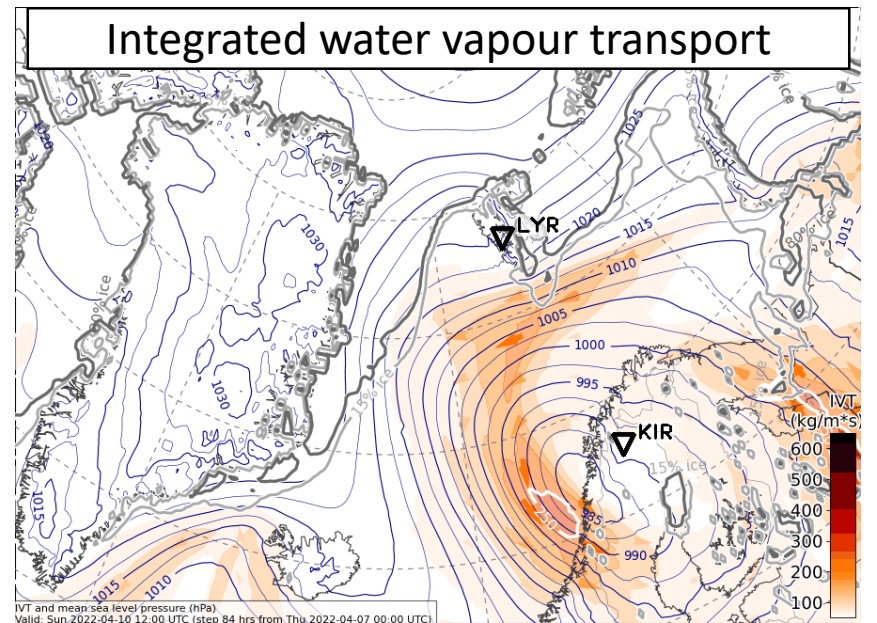
CAO Index



850 hPa Equiv. pot. temperature



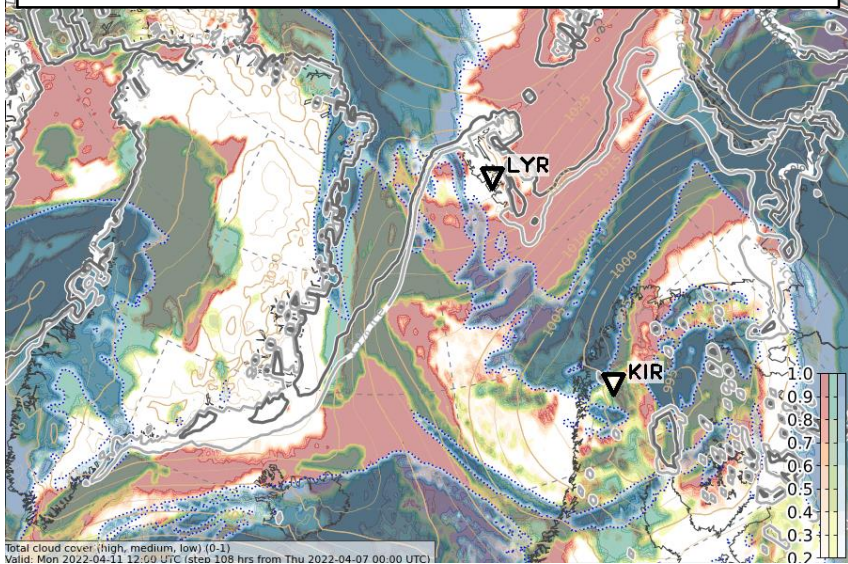
Integrated water vapour transport



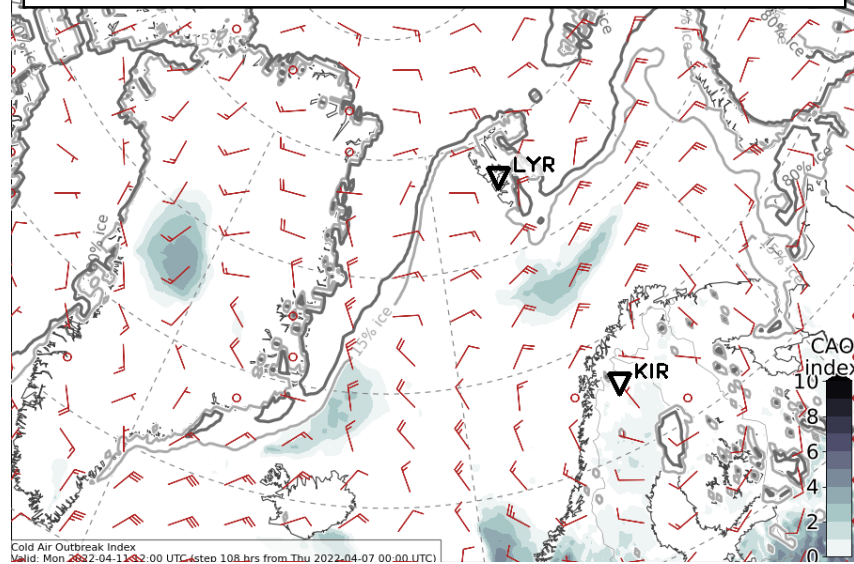


Mon, 2022-04-11 12 UTC (+108h)

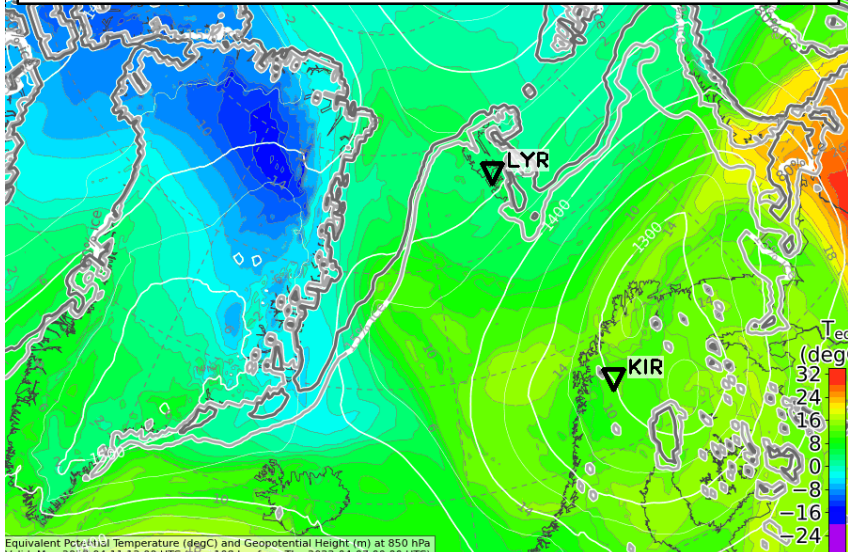
Total cloud cover



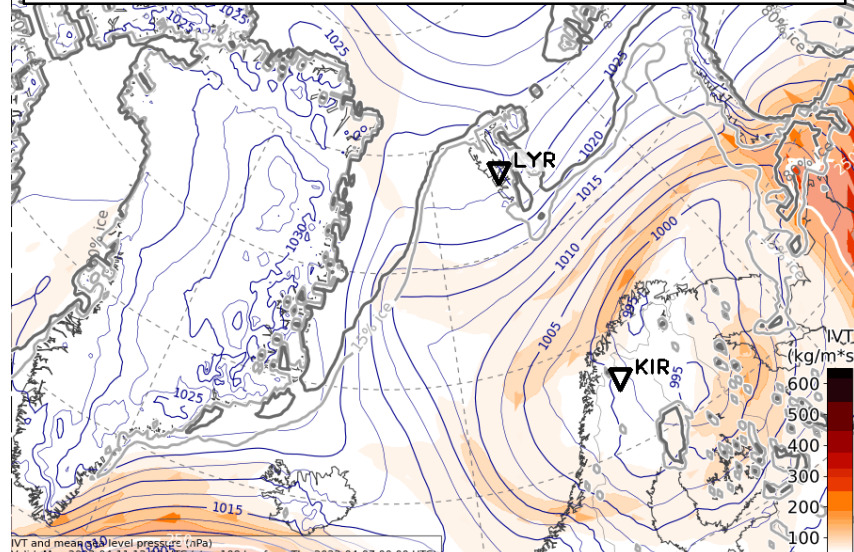
CAO Index



850 hPa Equiv. pot. temperature



Integrated water vapour transport

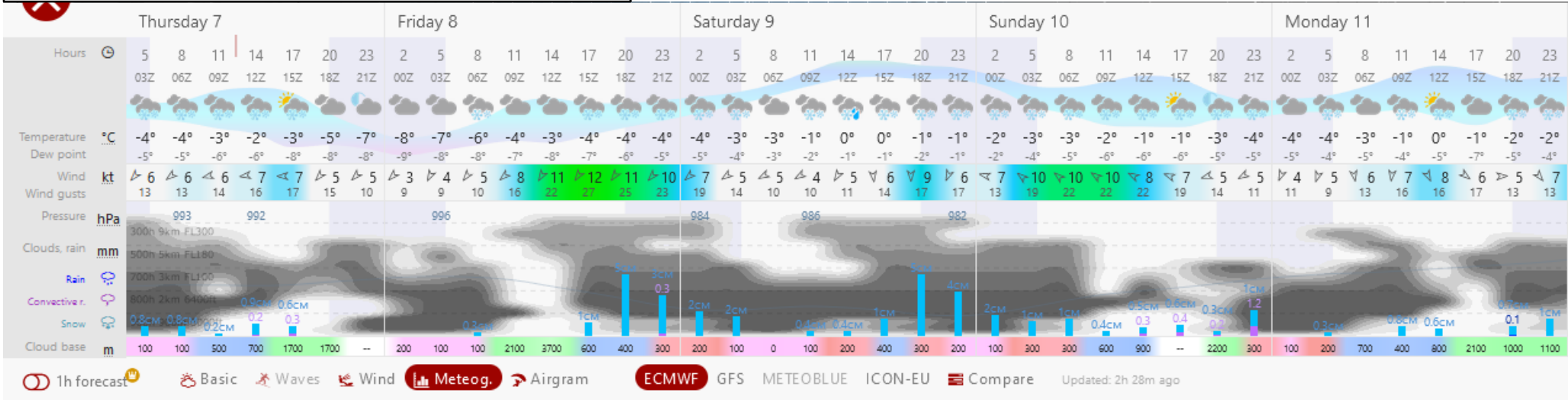


## **Airport meteograms & local weather at Svalbard**

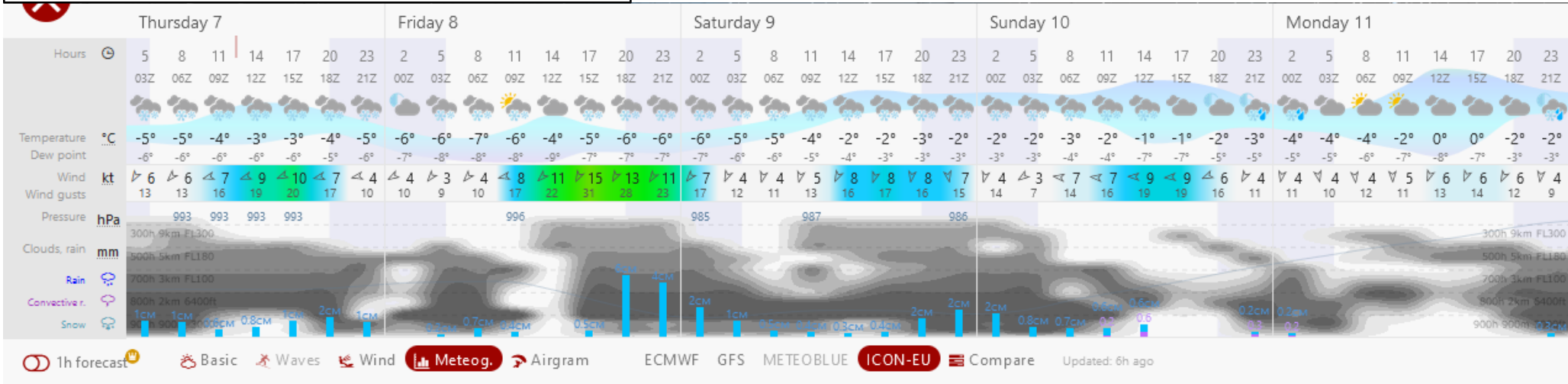


# Kiruna:

## ECWMF

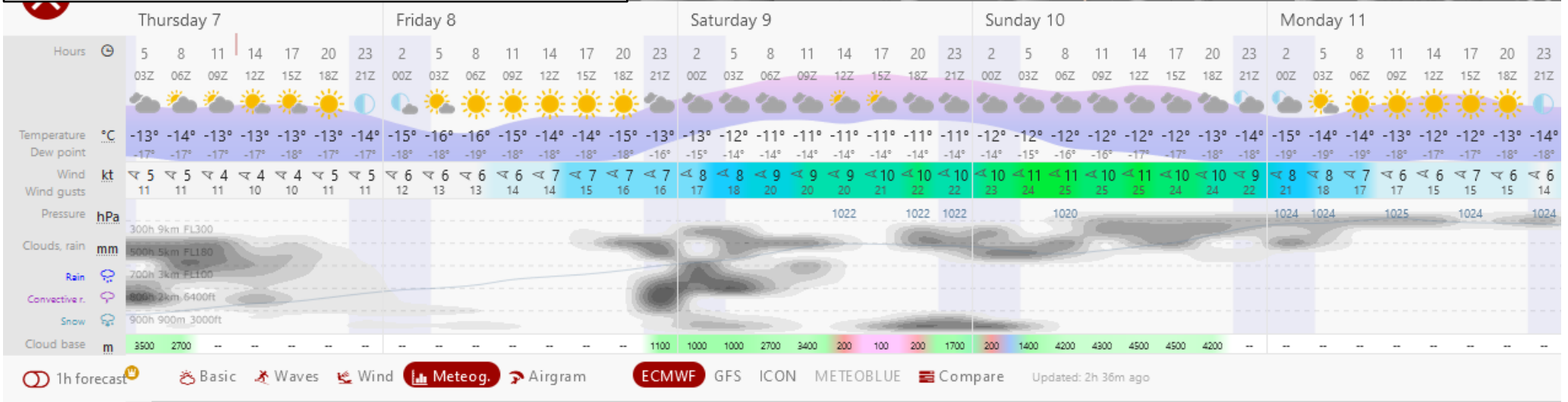


## ICON

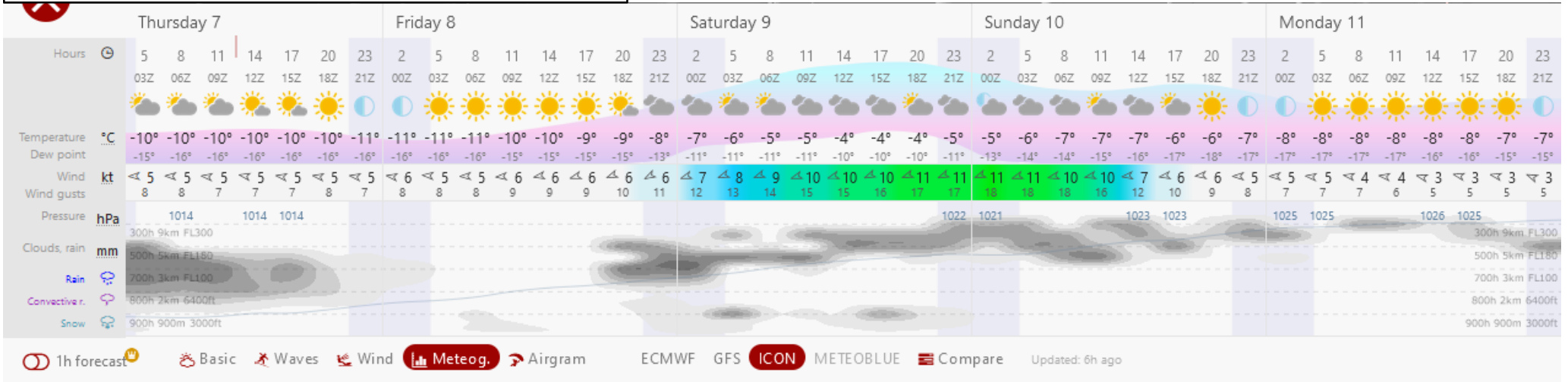


# Longyearbyen:

## 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, 2022-03-27:**
  - WAA from the North west of Scandinavia (cycled around Scandinavian low)
  - Extended cirrus fields over Fram Strait
- **Monday, 2022-03-28:**
  - Probably formation of new polar low