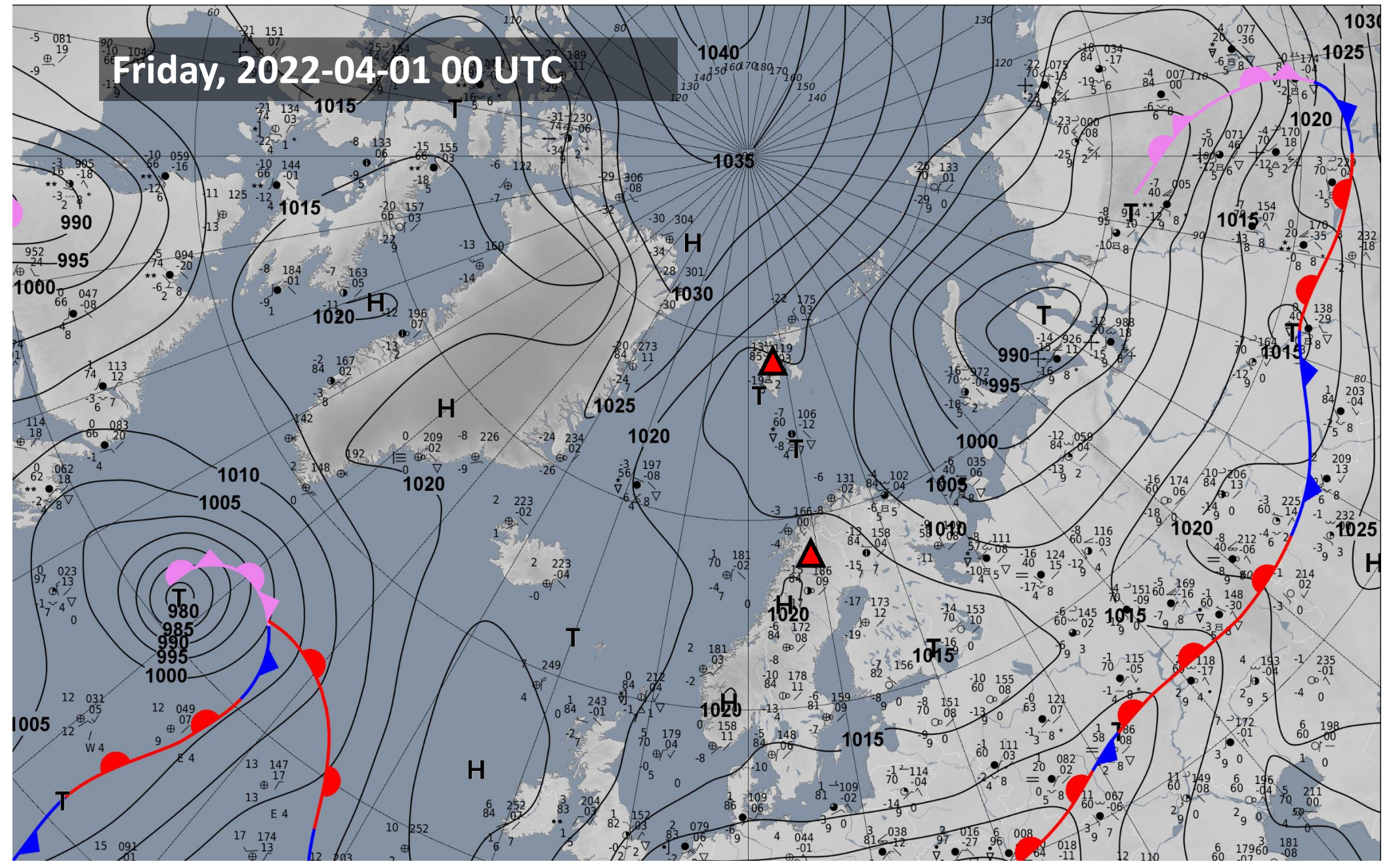


Weather briefing HALO-(AC)³

Friday, 2022-04-01, 17:00 LT

Surface Analysis
Friday, 2022-04-01 00 UTC
DWD

Friday, 2022-04-01 00 UTC



Surface wind development and precipitation

2022-04-01 00 UTC: 60 – 108h

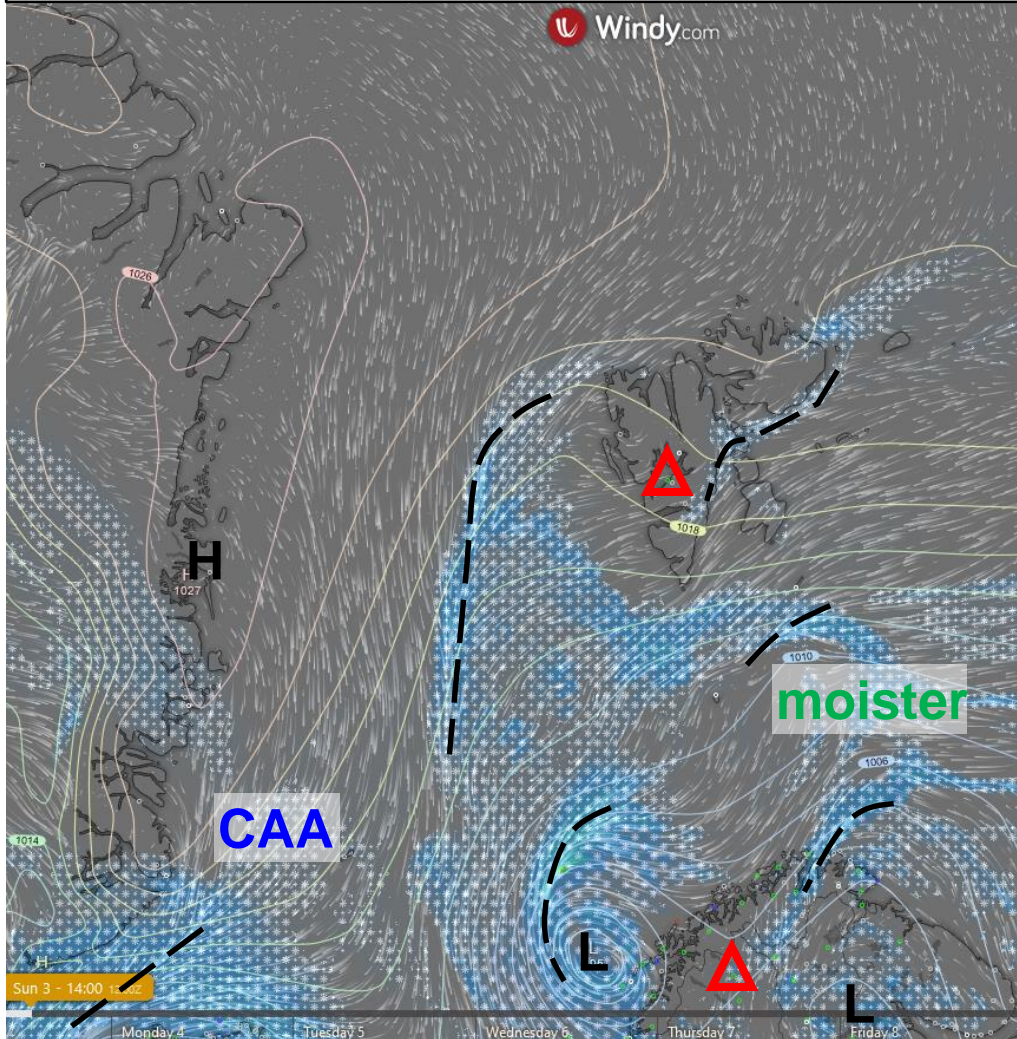
ECMWF & ICON

CAA: Cold Air Advection

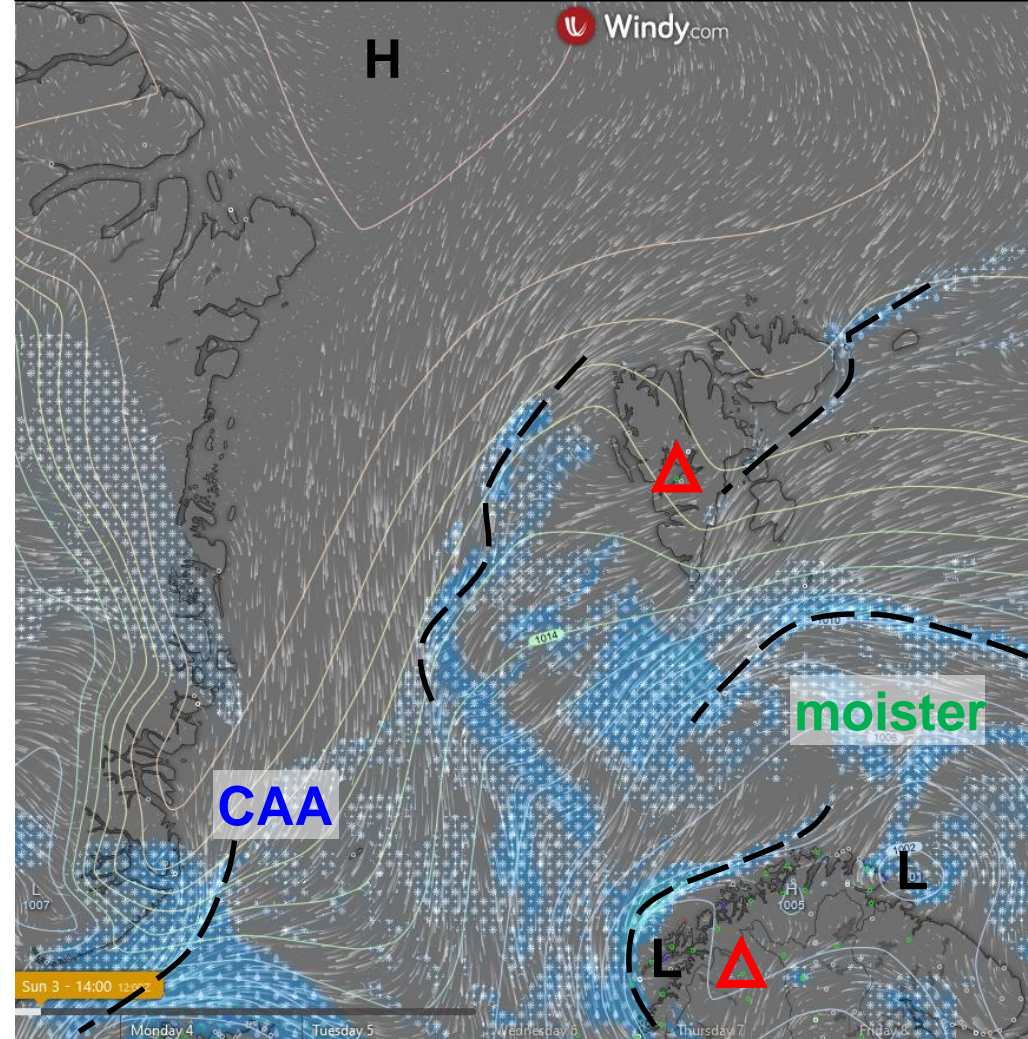
WAA: Warm Air Advection

Sunday, 2022-04-03 12 UTC (+60h)

ECMWF

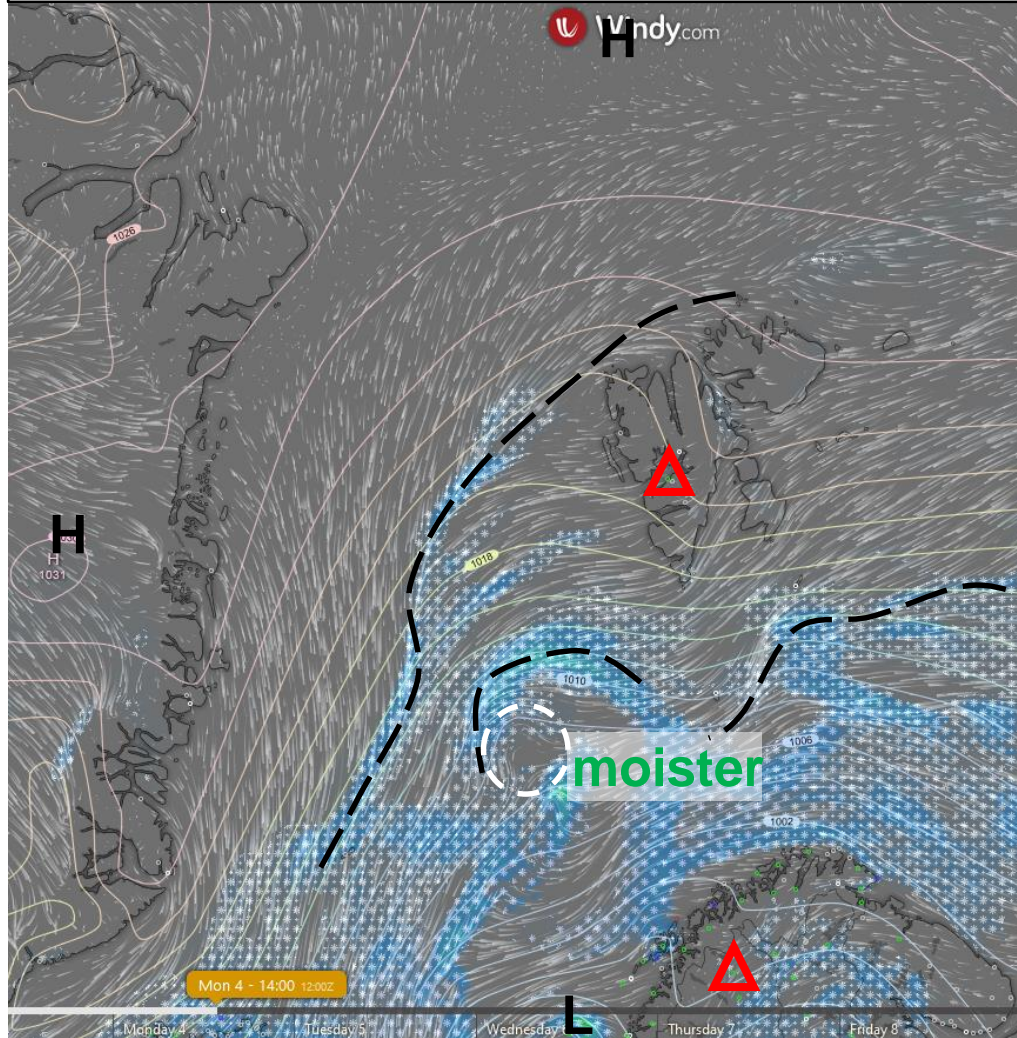


ICON

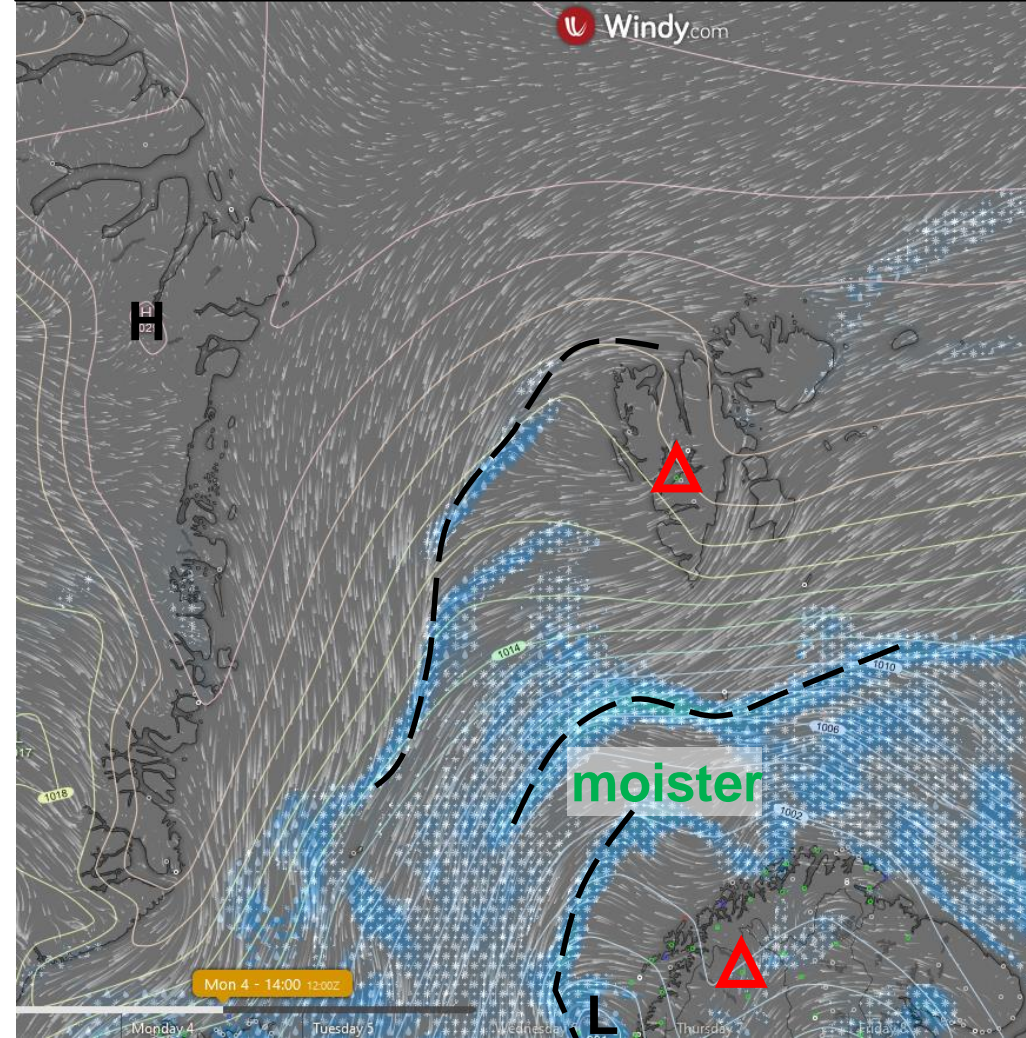


Monday, 2022-04-04 12 UTC (+84h)

ECMWF

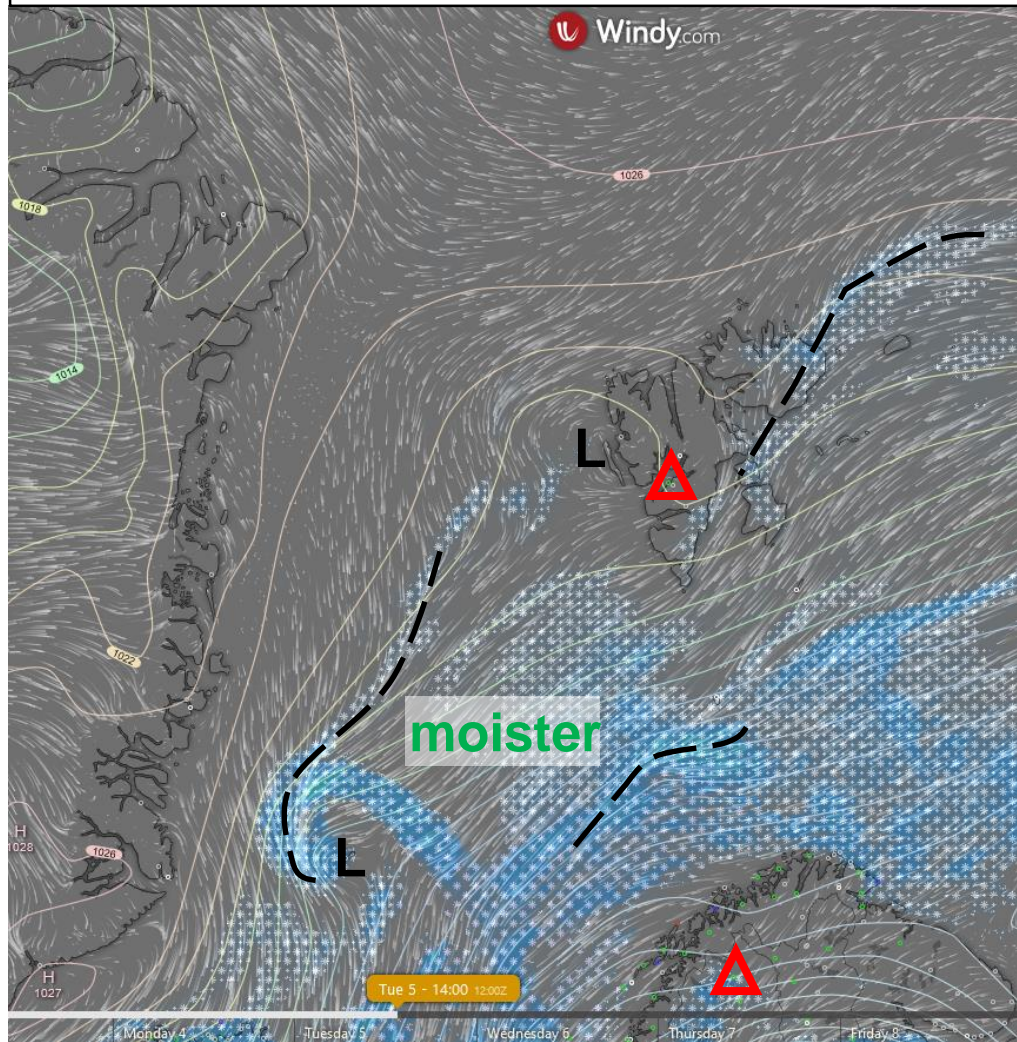


ICON

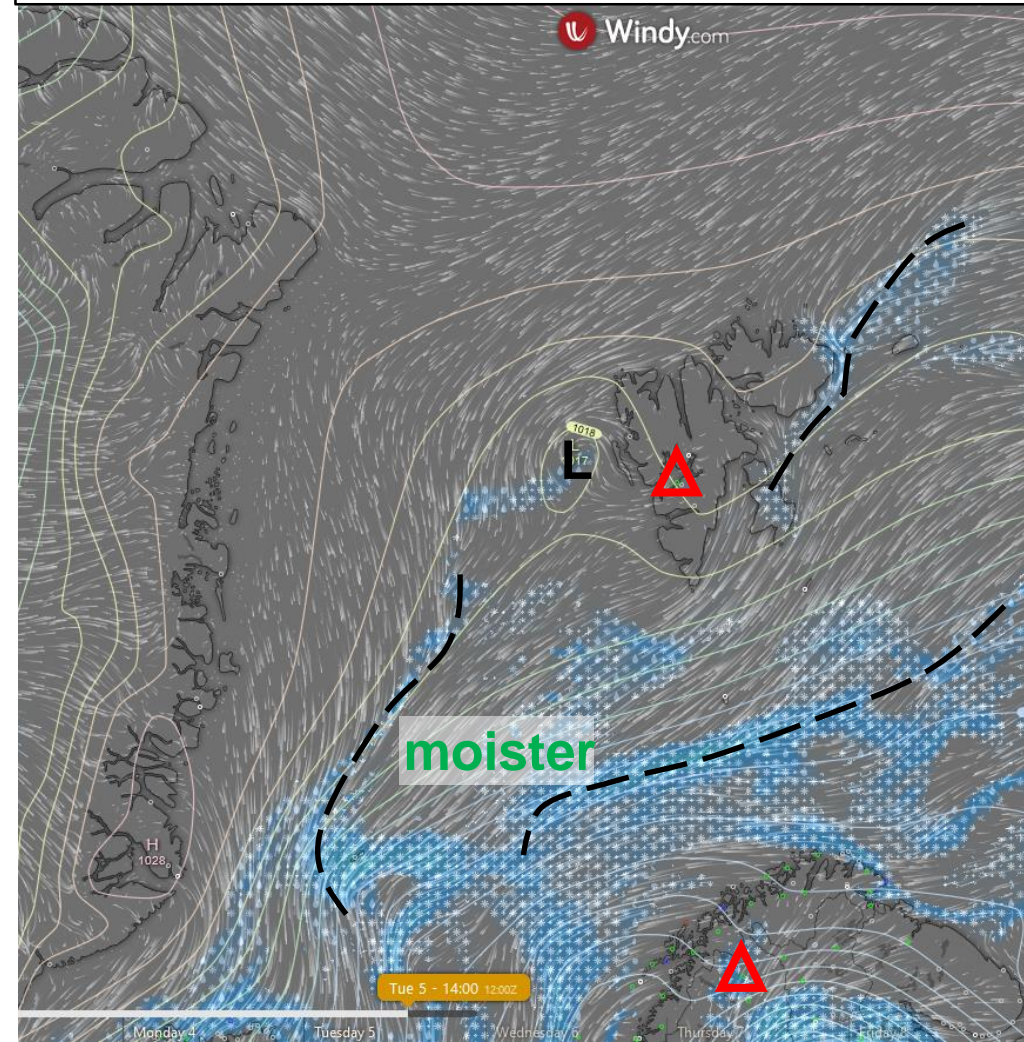


Tuesday, 2022-04-05 12 UTC (+108h)

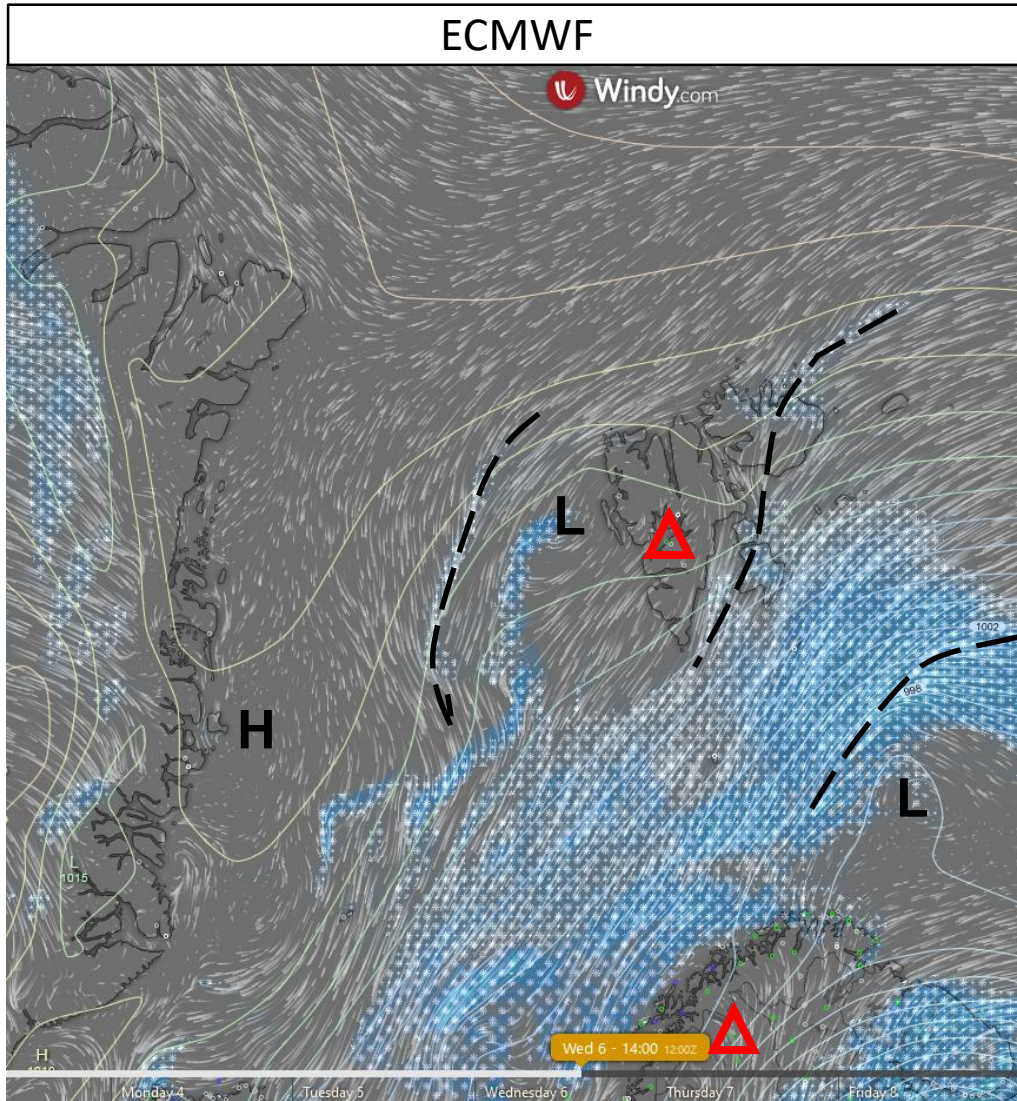
ECMWF



ICON



Wednesday, 2022-04-05 12 UTC (+132h)



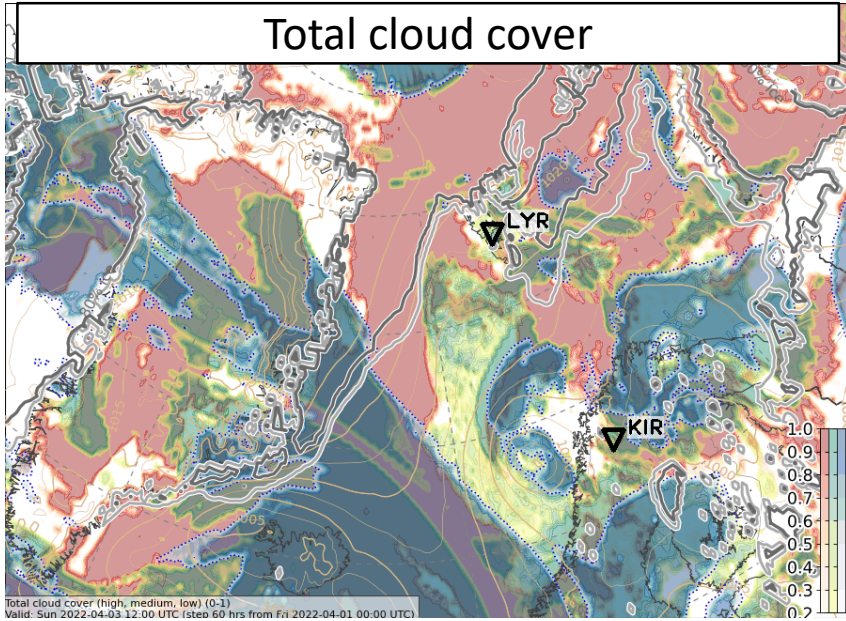
Cloud cover, CAO index, Airmasses, IVT

2022-03-17 00 UTC: 60 – 108h

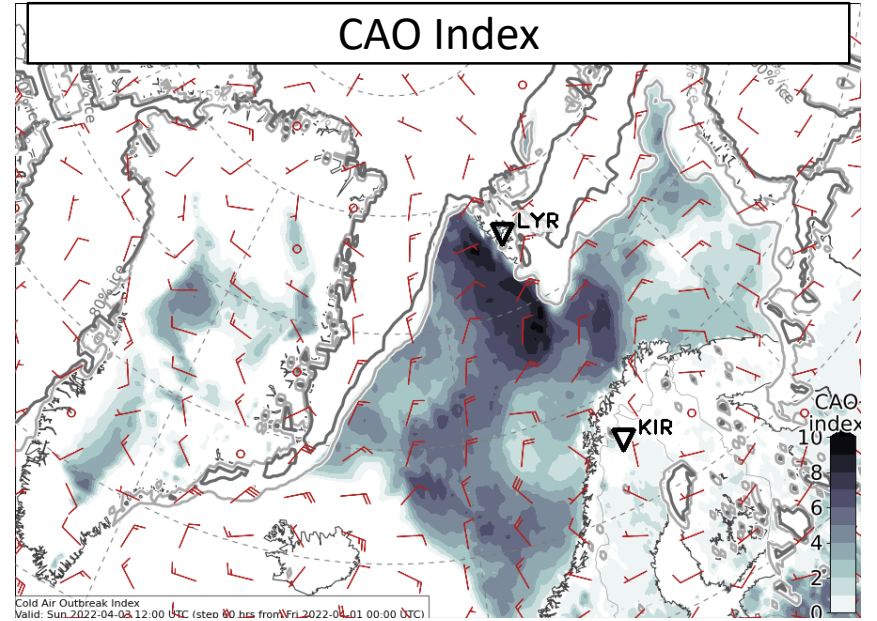
Cloud cover & 850hPa θ_e & CAO & IVT

Sun, 2022-04-03 12 UTC (+60h)

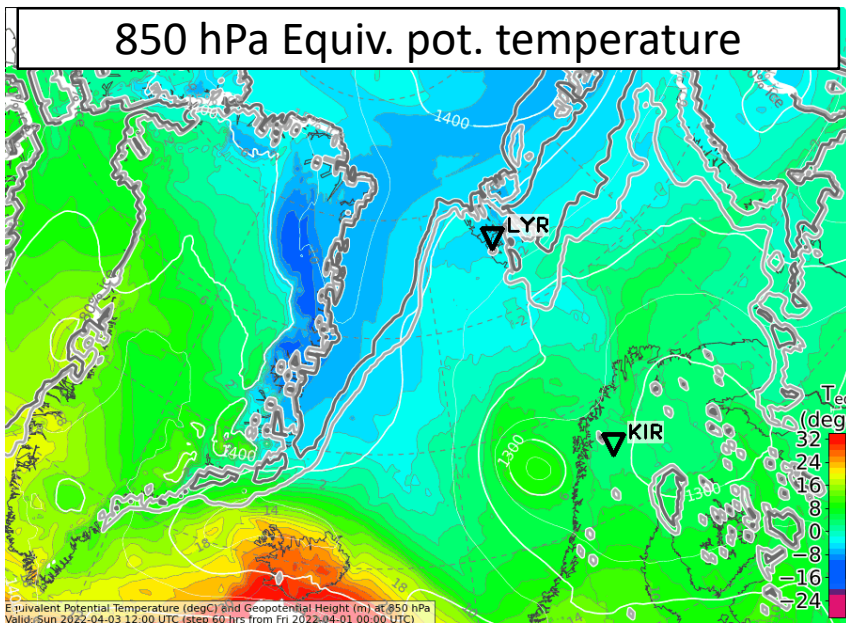
Total cloud cover



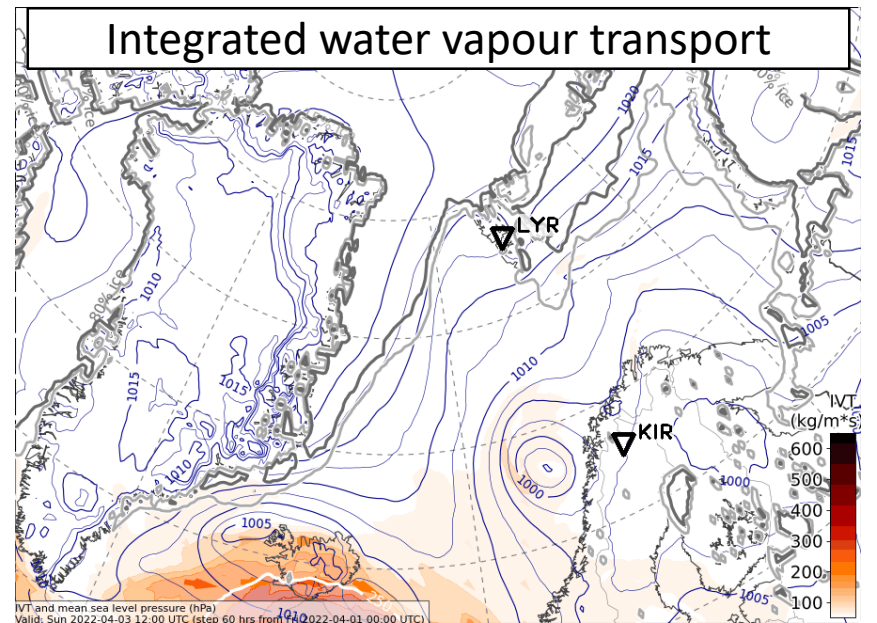
CAO Index



850 hPa Equiv. pot. temperature

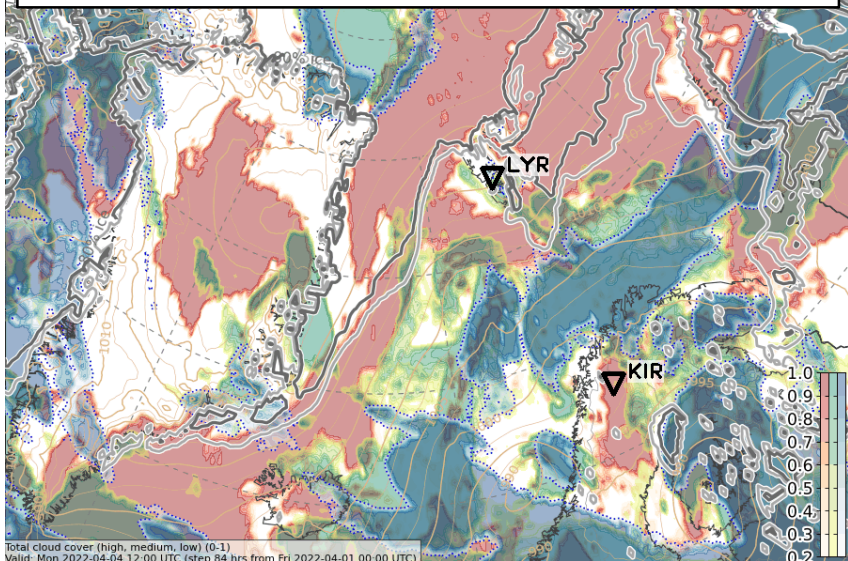


Integrated water vapour transport

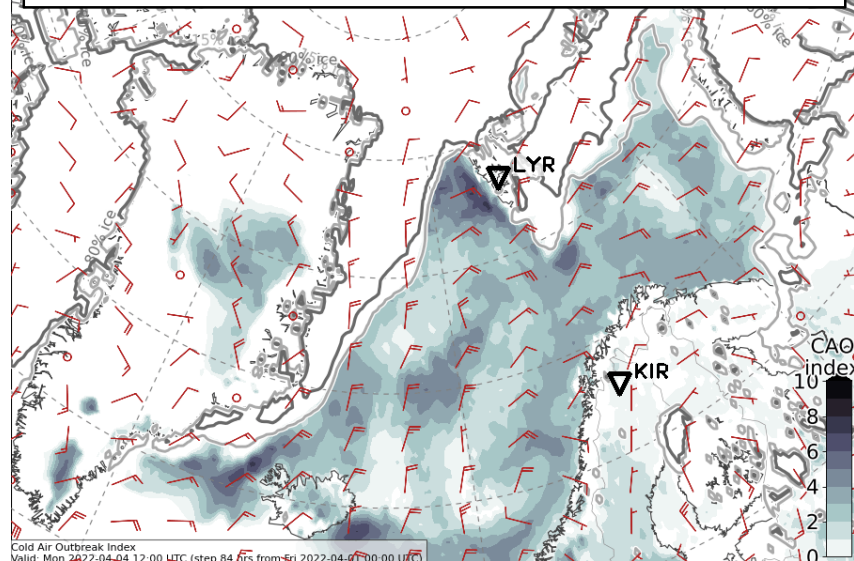


Mon, 2022-04-04 12 UTC (+84h)

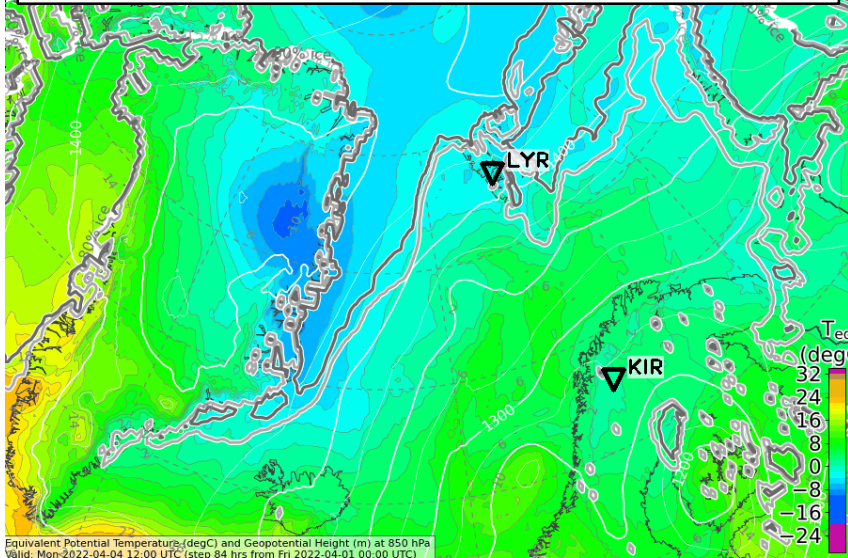
Total cloud cover



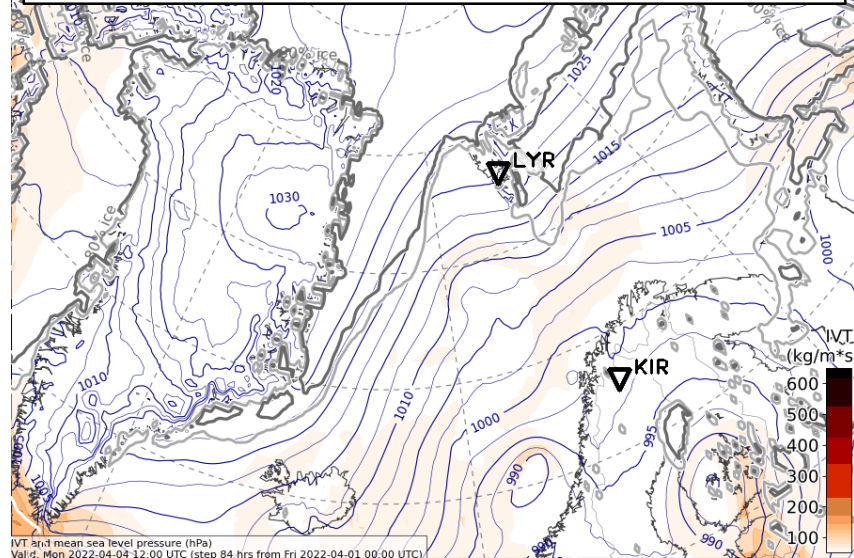
CAO Index



850 hPa Equiv. pot. temperature

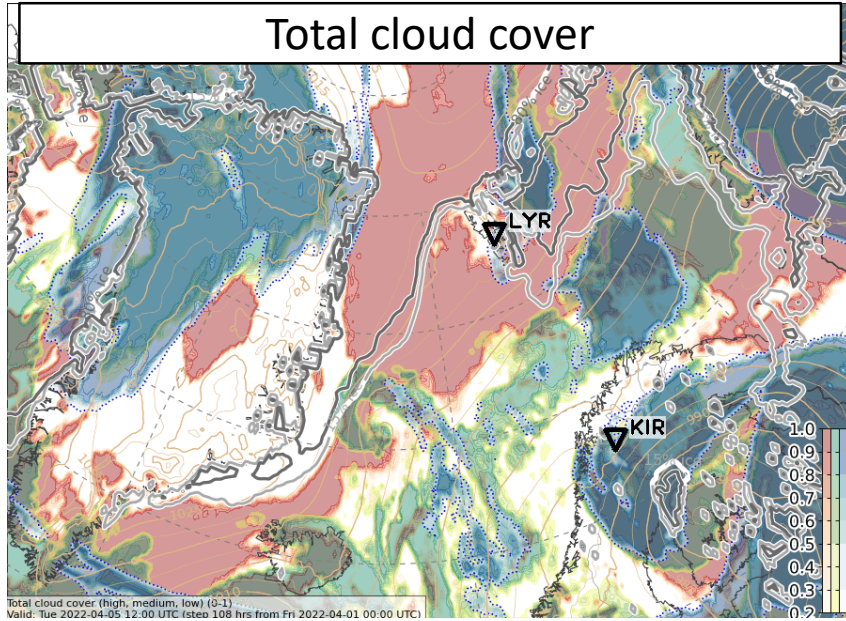


Integrated water vapour transport

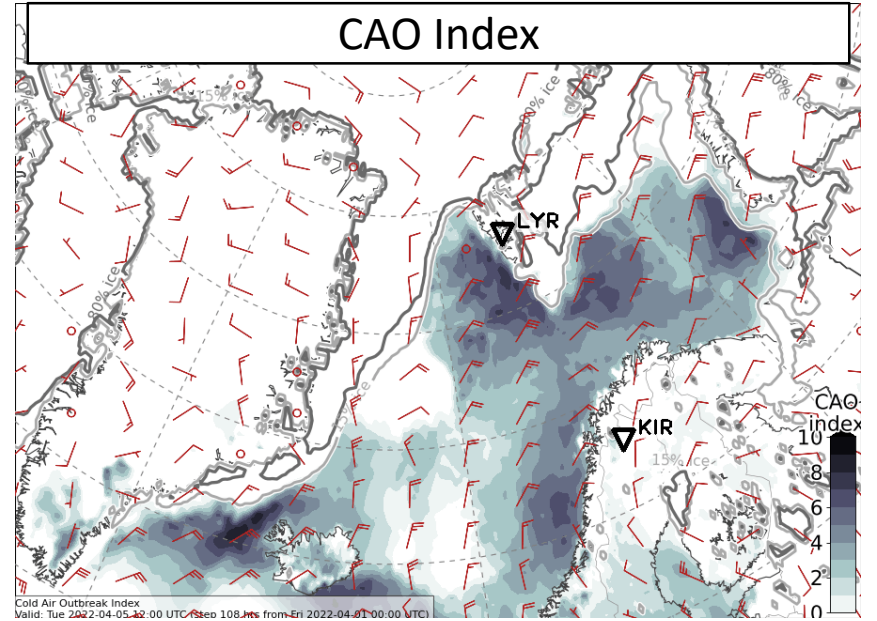


Tue, 2022-04-05 12 UTC (+108h)

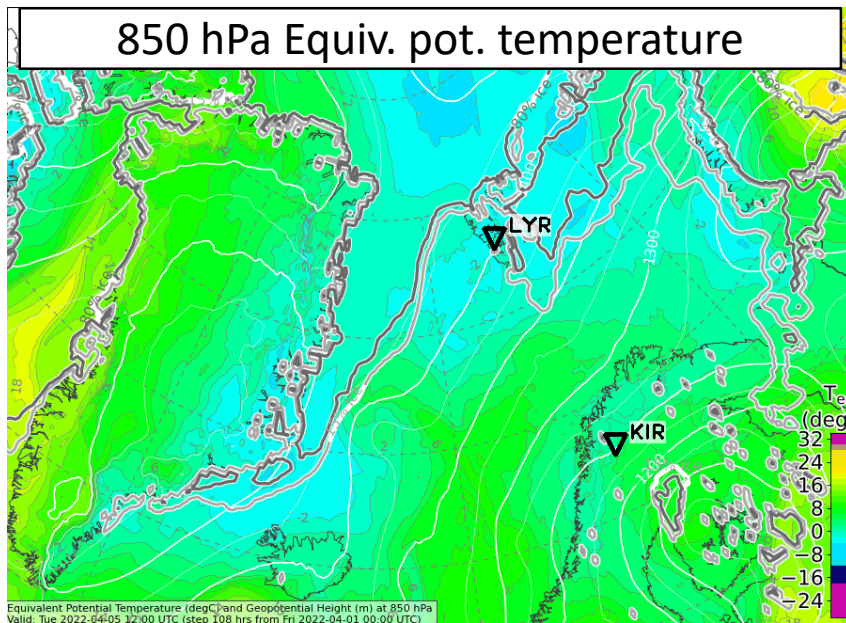
Total cloud cover



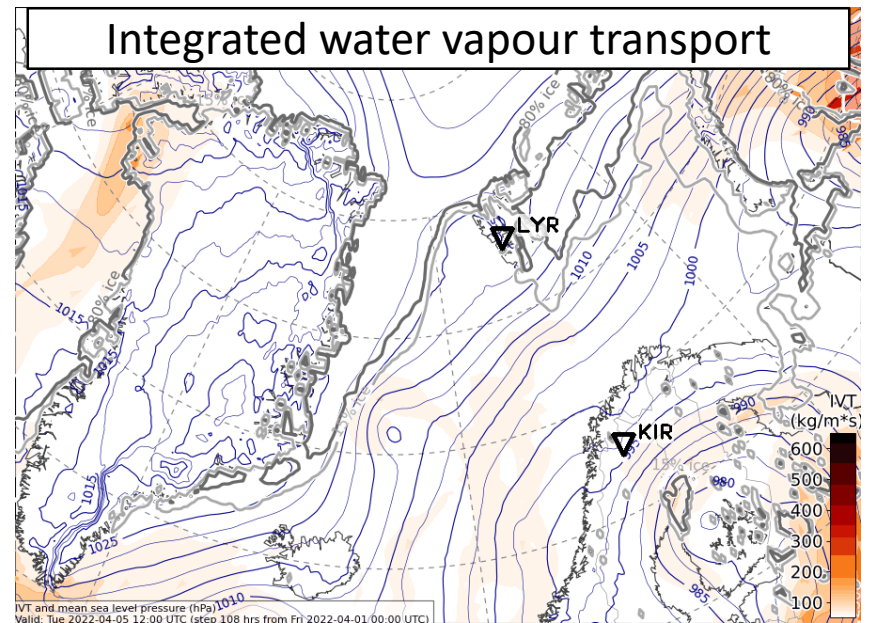
CAO Index



850 hPa Equiv. pot. temperature

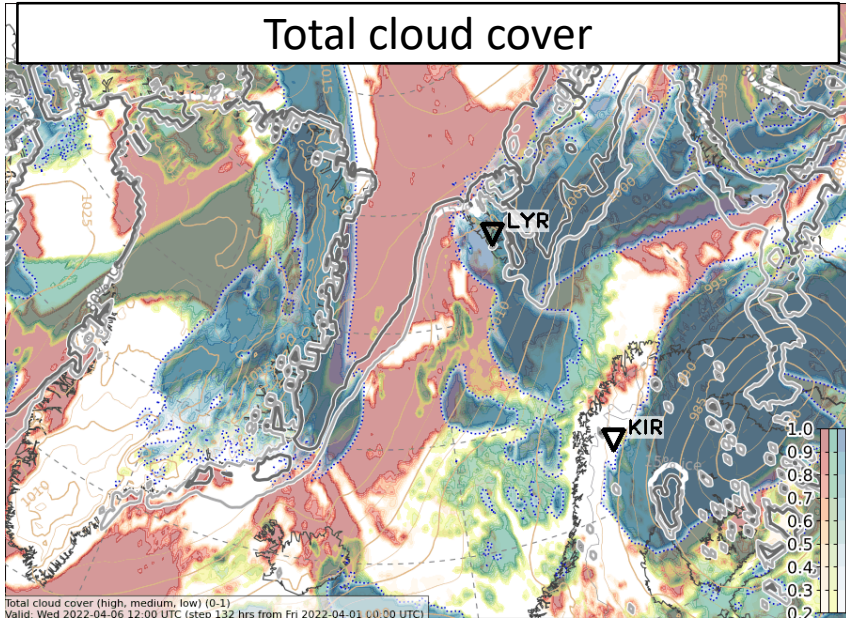


Integrated water vapour transport

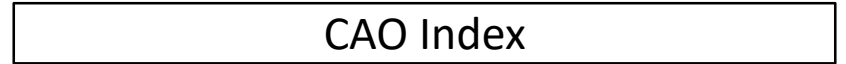


Wed, 2022-04-06 12 UTC (+132h)

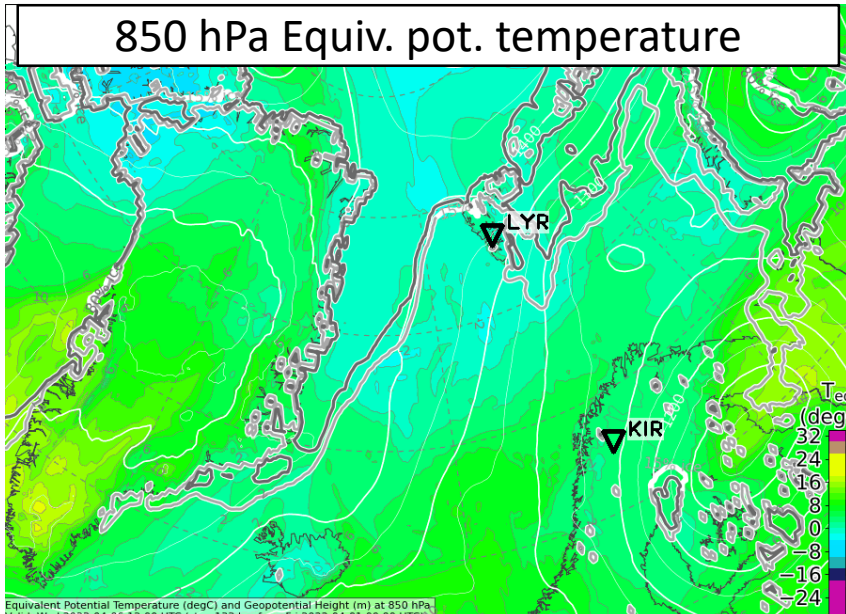
Total cloud cover



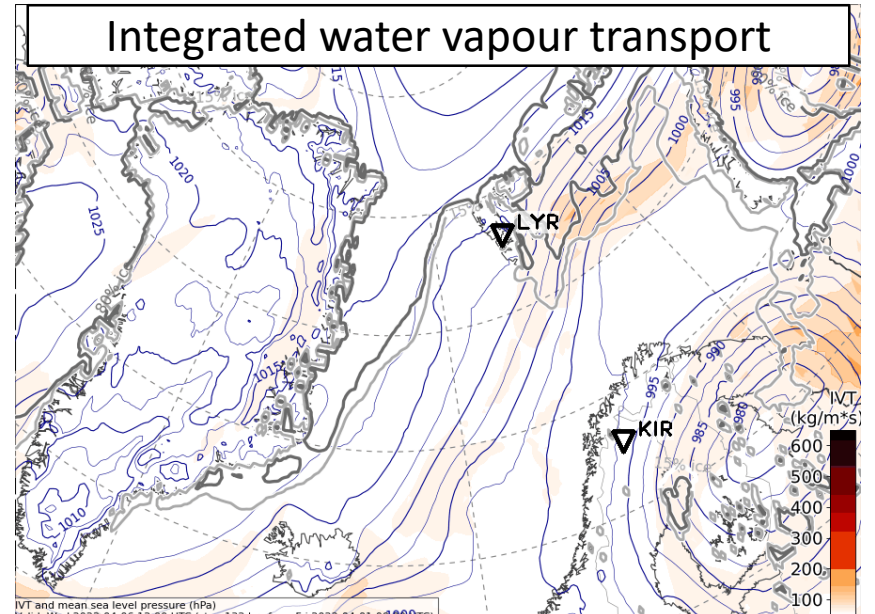
CAO Index



850 hPa Equiv. pot. temperature



Integrated water vapour transport

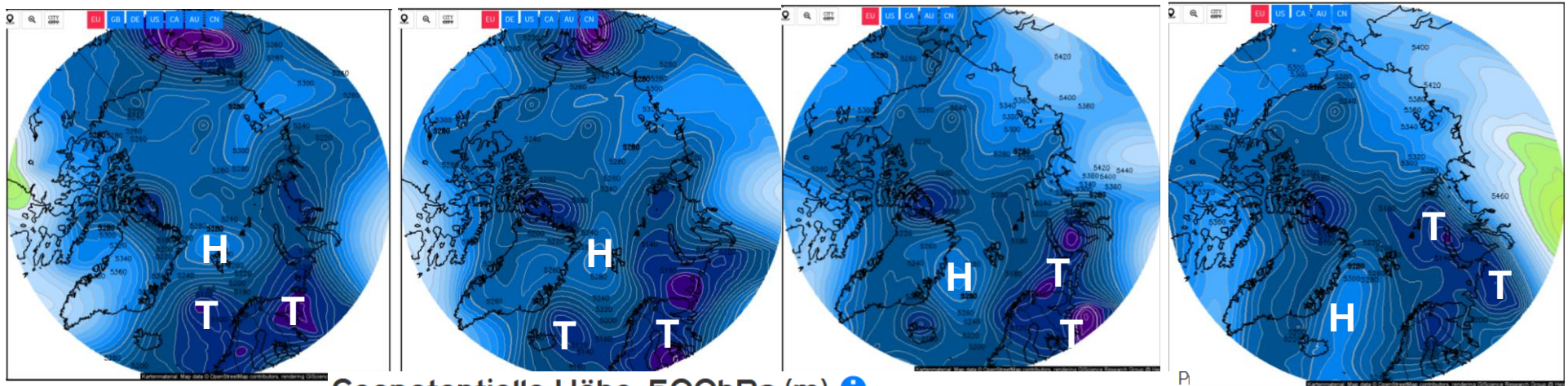


Long-term view on upcoming week: ECMWF

2022-04-01 00 UTC: 146h – 208

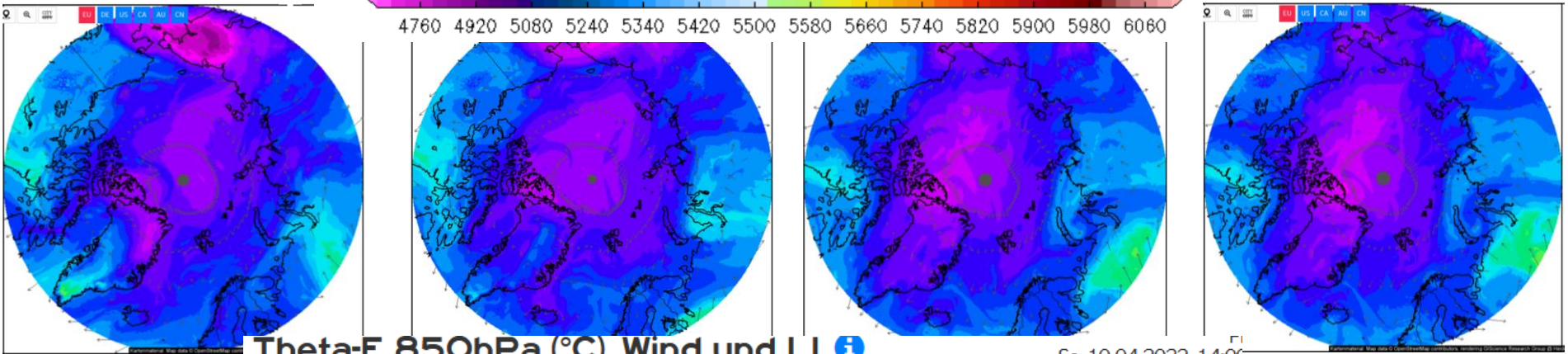
Integrated Water Vapour (IWV) and Theta-E

ECMWF Long-Term: Geopot-Z 500hPa (top), Theta-E (bottom)



Geopotentielle Höhe, 500hPa (m) [i](#)

So. 10.04.2022, 14:00



Theta-E 850hPa (°C), Wind und LI [i](#)

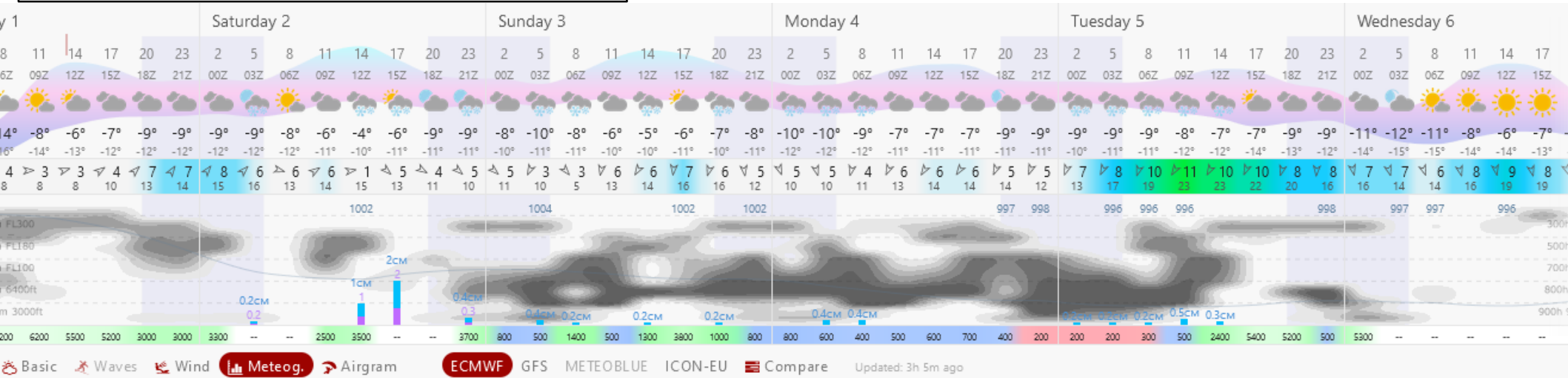
So. 10.04.2022, 14:00



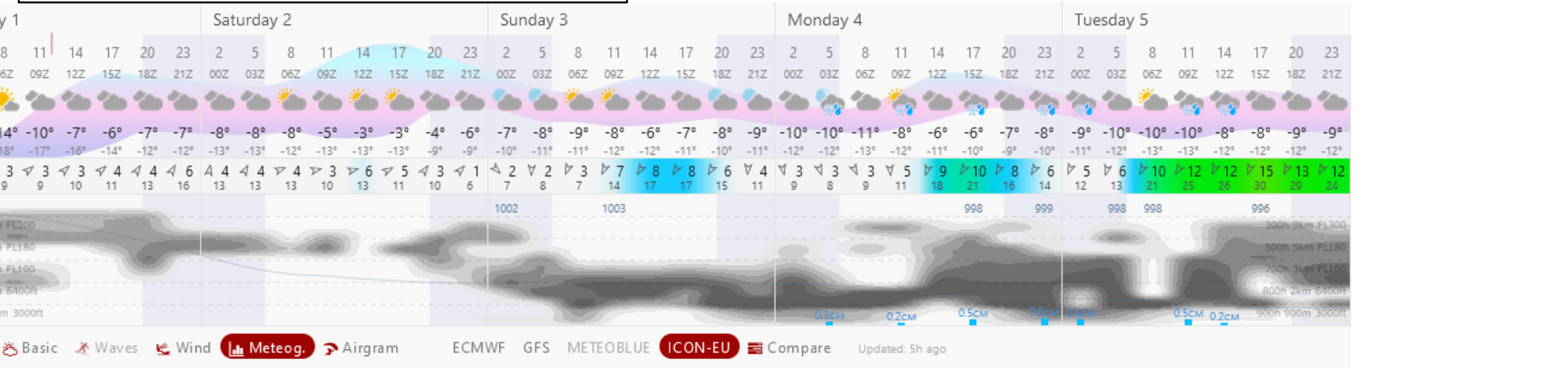
Airport meteograms & local weather at Svalbard

Kiruna:

ECWMF



ICON



Summary

Summary: Weather Briefing 2022-04-01, 17:00 LT

- **Sunday 2022-04-03:**
 - No significant changes in forecasts. Convergence of polar CAA and little moist easterly flow
- **Monday 2022-04-04:**
 - convergence zone along sea-ice edge, weak cyclogenesis southwest of Svalbard possible (more pronounced in ECMWF)
 - area of easterly flow increases more, but in western Fram Strait northerly flow intensifies even more compared to previous forecast
- **Tuesday /Wednesday 2022-04-05/2022-04-06:**
 - northeasterly flow over Fram Strait but weak gradients.
 - equalization of airmasses
- **Long-Term (Thursday/Friday/Saturday/Sunday):**
 - Atlantic southerly flow remains blocked
 - moist Siberian airmasses try to reach Arctic in easterly flow, but unfavourable conditions for airmass transformation (AR/WAI event), however it should be monitored
 - towards the end tendency of high pressure ridge along Greenland