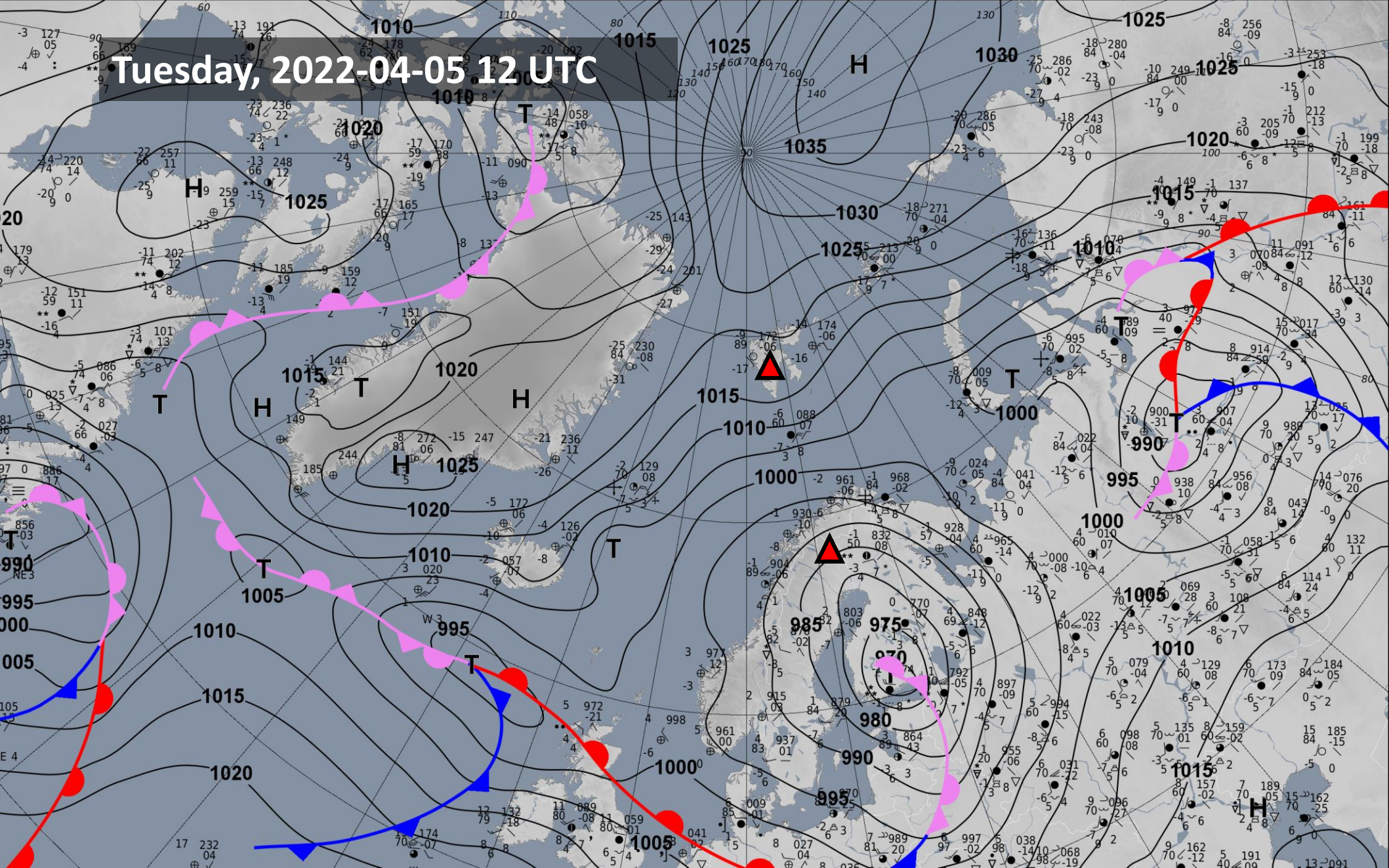


Weather briefing HALO-(AC)³

Tuesday, 2022-04-05, 17:00 LT

Surface Analysis
Tuesday, 2022-04-05 12 UTC
DWD

Tuesday, 2022-04-05 12 UTC



Surface wind development and precipitation

2022-04-05 00 UTC: 36 – 132h

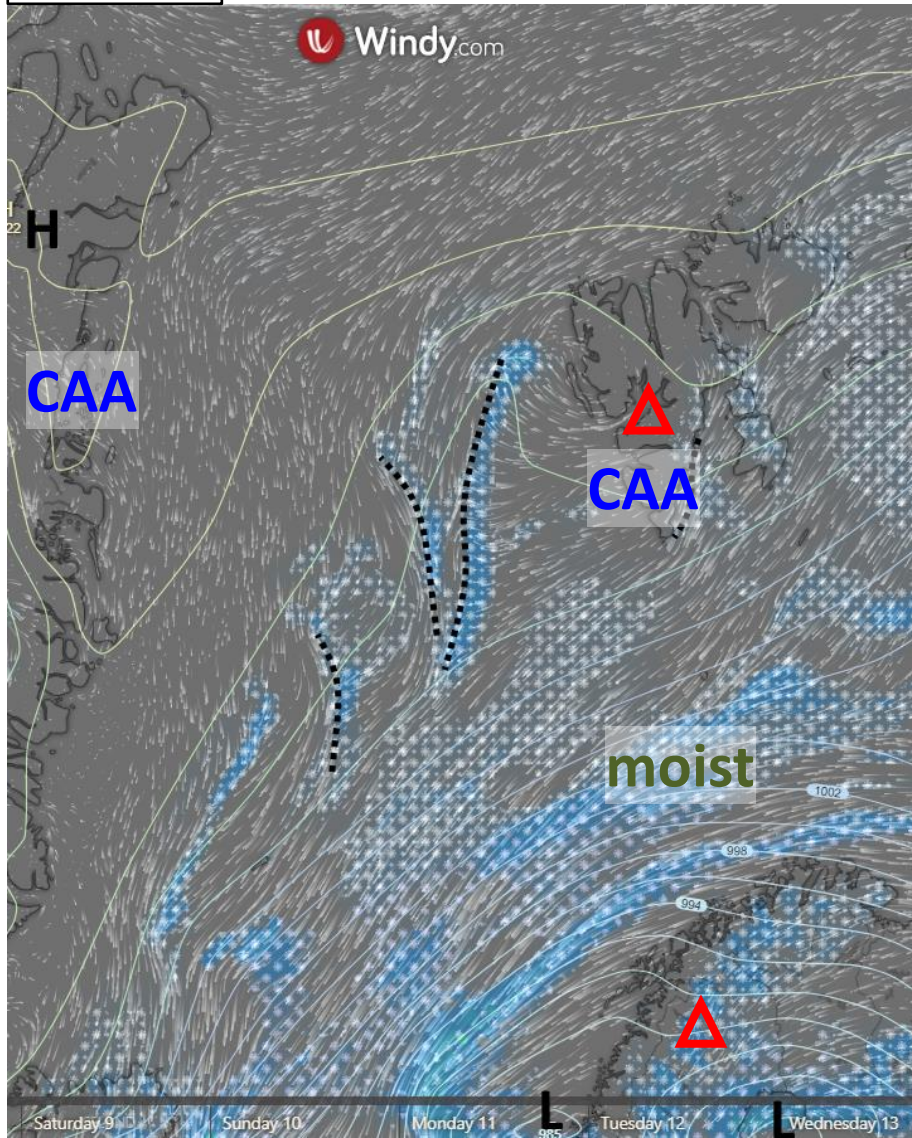
ECMWF & ICON

CAA: Cold Air Advection

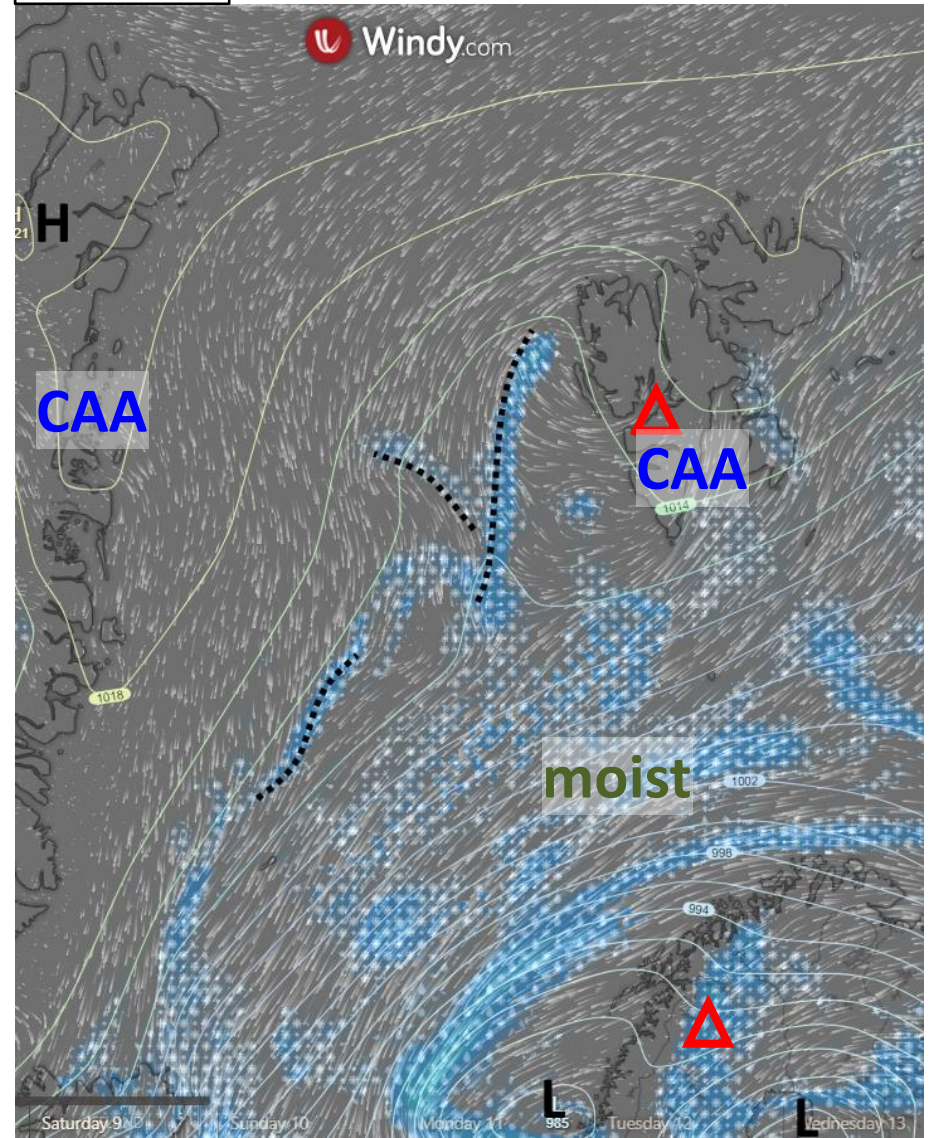
WAA: Warm Air Advection

Wednesday, 2022-04-06 12 UTC (+36h)

ECMWF

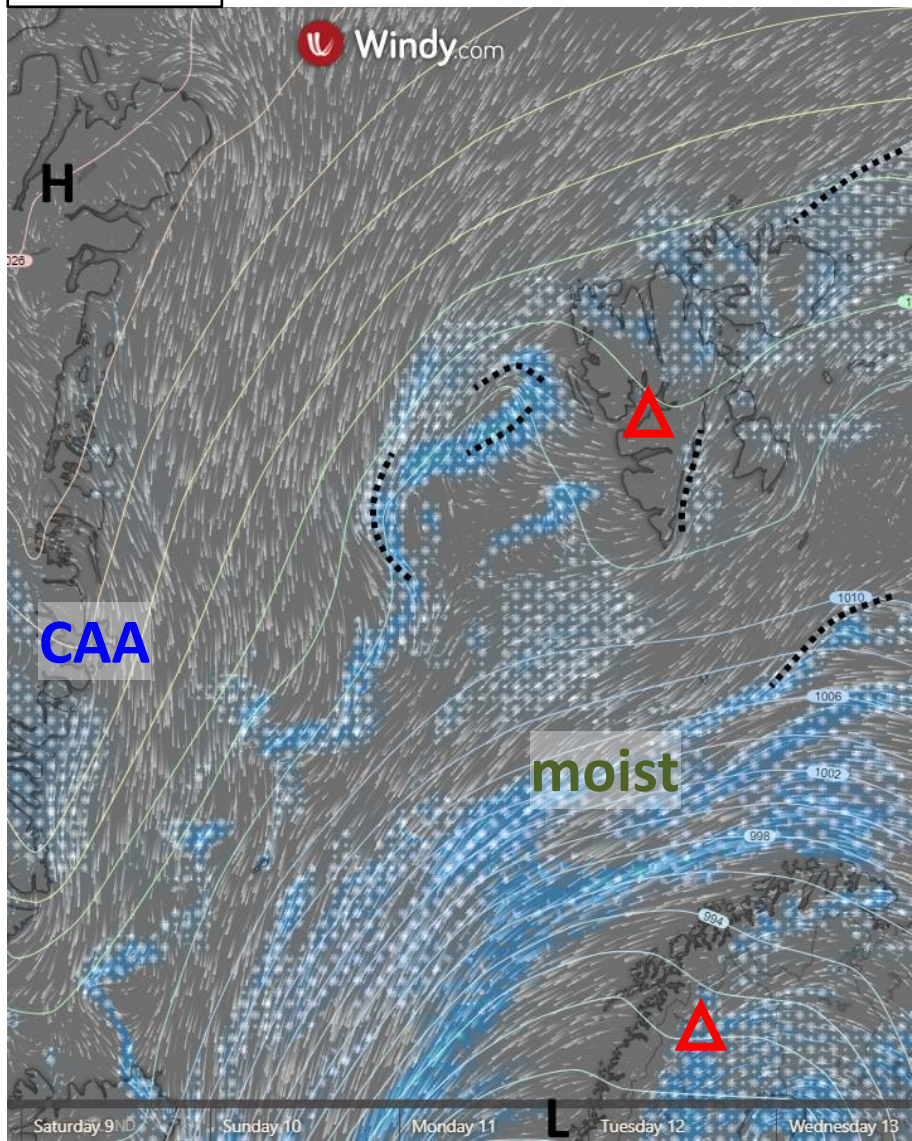


ICON

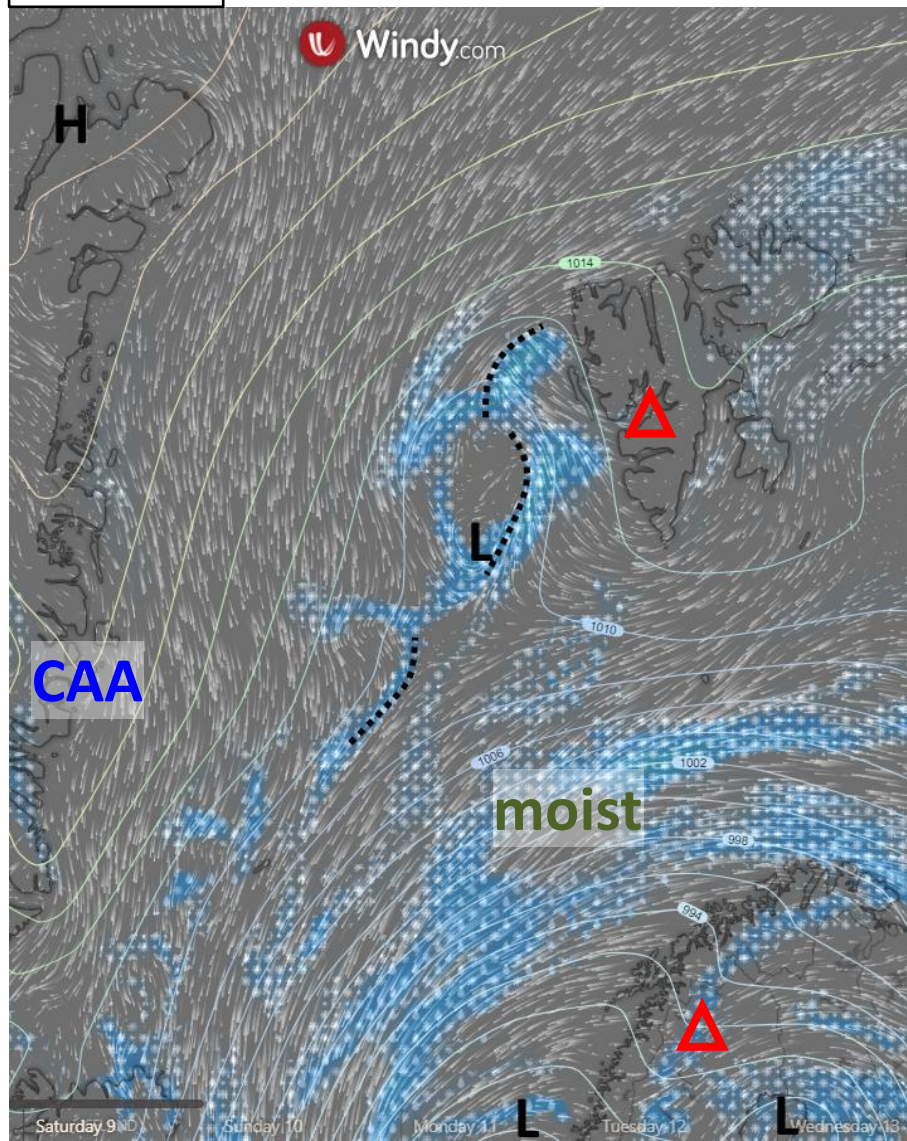


Thursday, 2022-04-07 12 UTC (+60h)

ECMWF

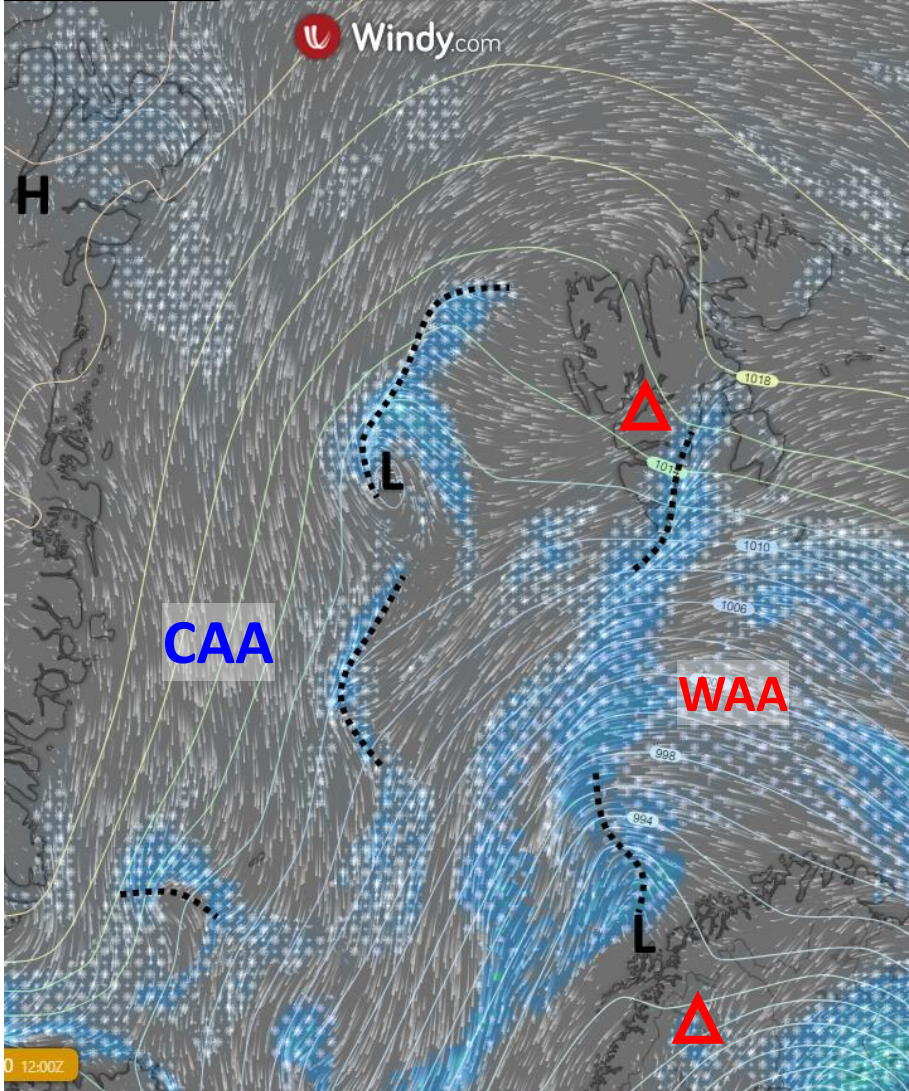


ICON

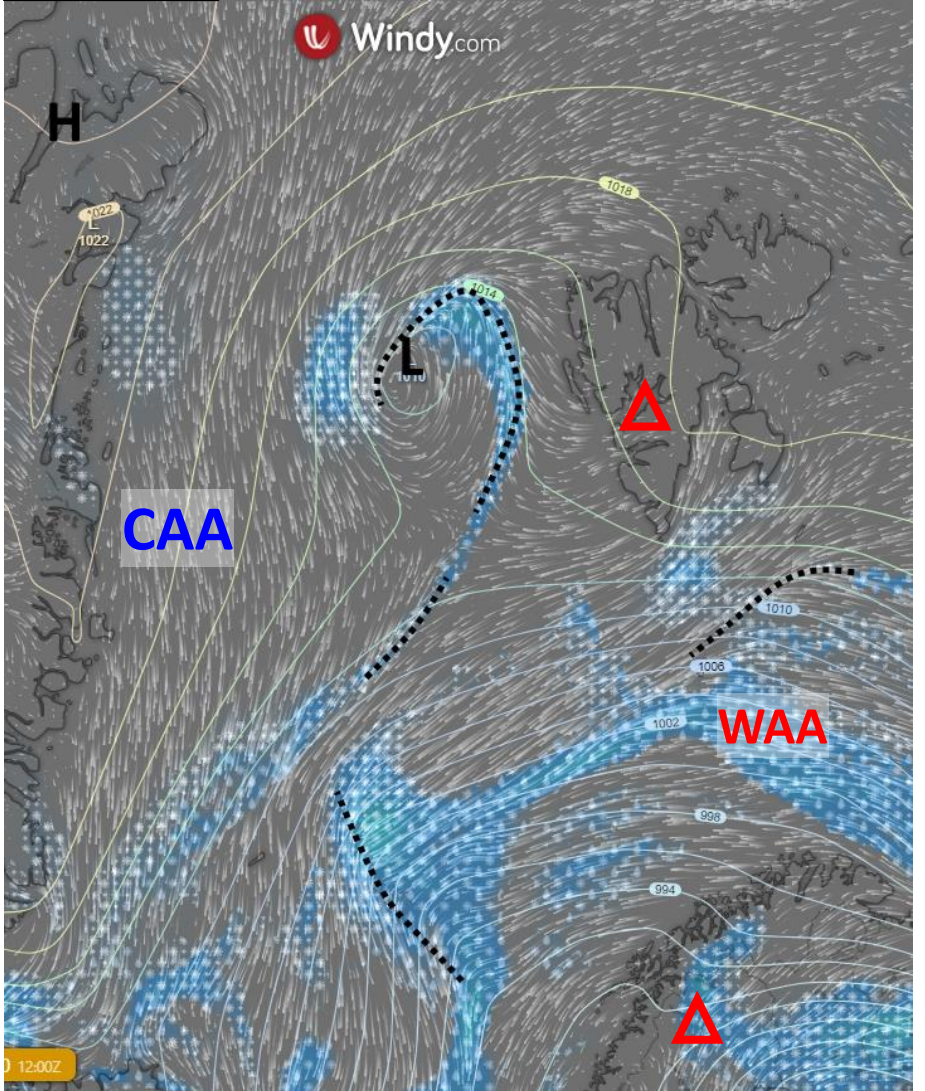


Friday, 2022-04-08 12 UTC (+84h)

ECMWF



ICON

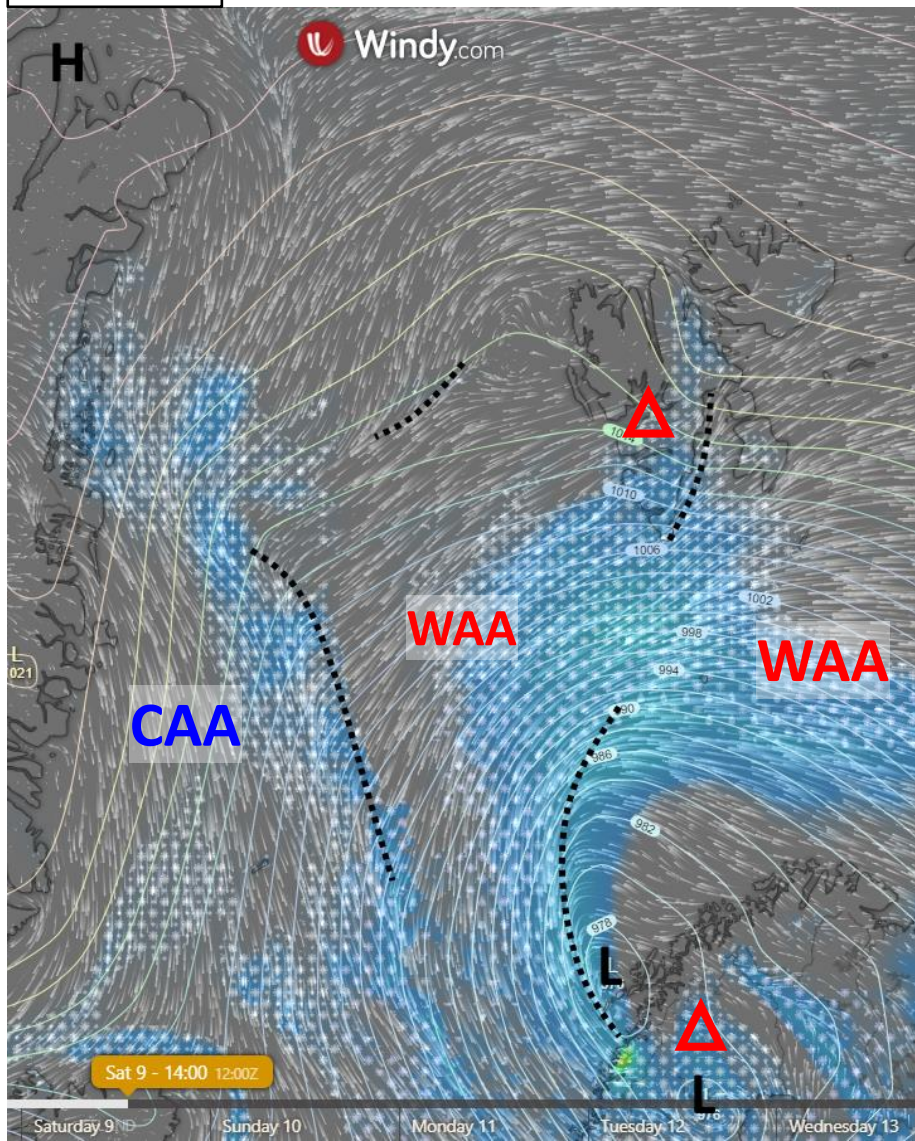


Saturday 9ND Sunday 10 Monday 11 Tuesday 12 Wednesday 13

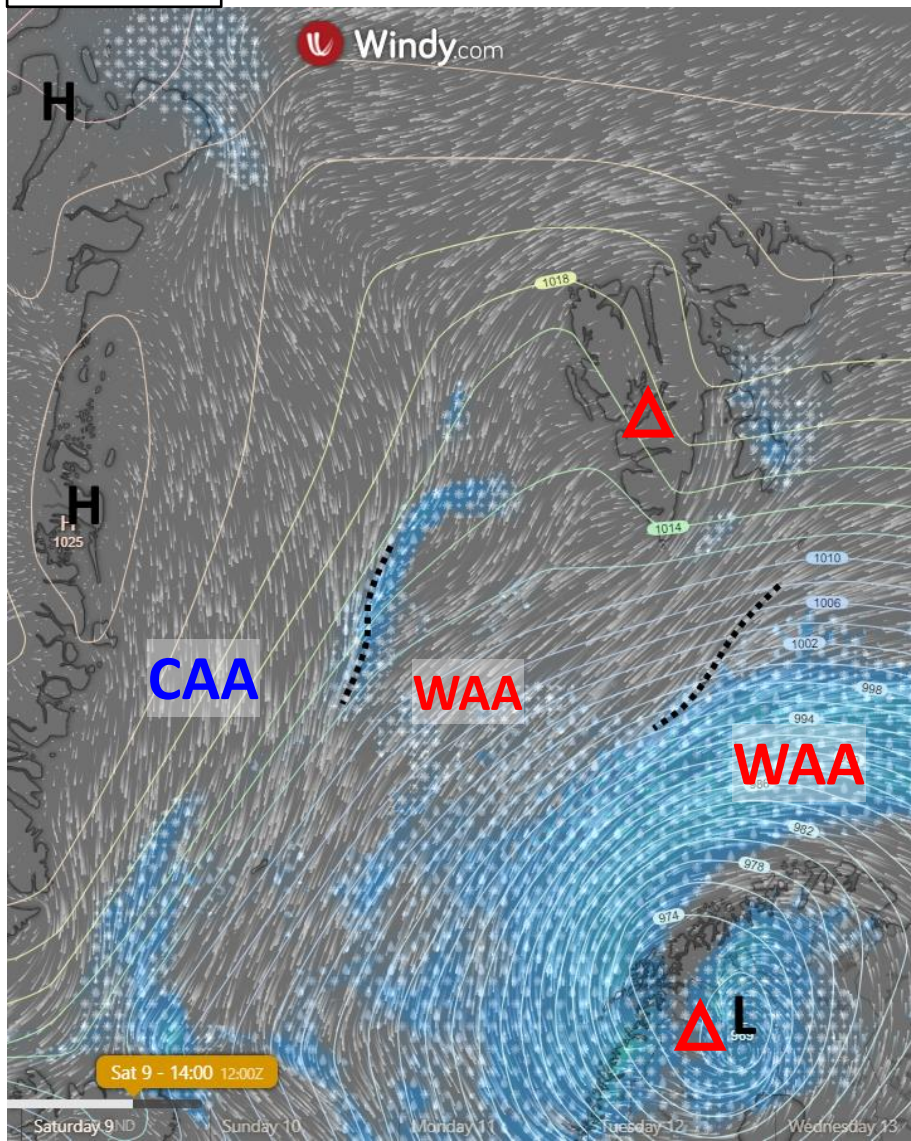
Saturday 9ND Sunday 10 Monday 11 Tuesday 12 Wednesday 13

Saturday, 2022-04-09 12 UTC (+108h)

ECMWF



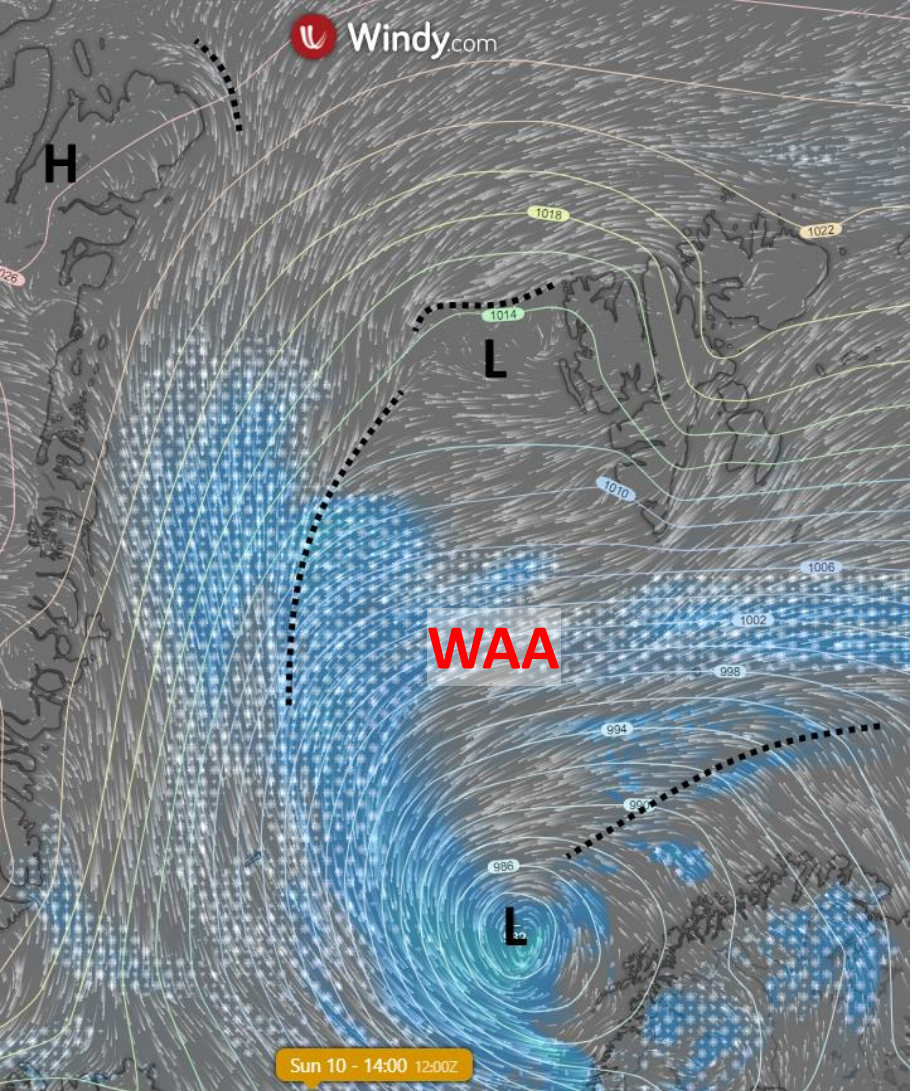
ICON



Sunday, 2022-04-10 12 UTC (+132h)

ECMWF

ICON



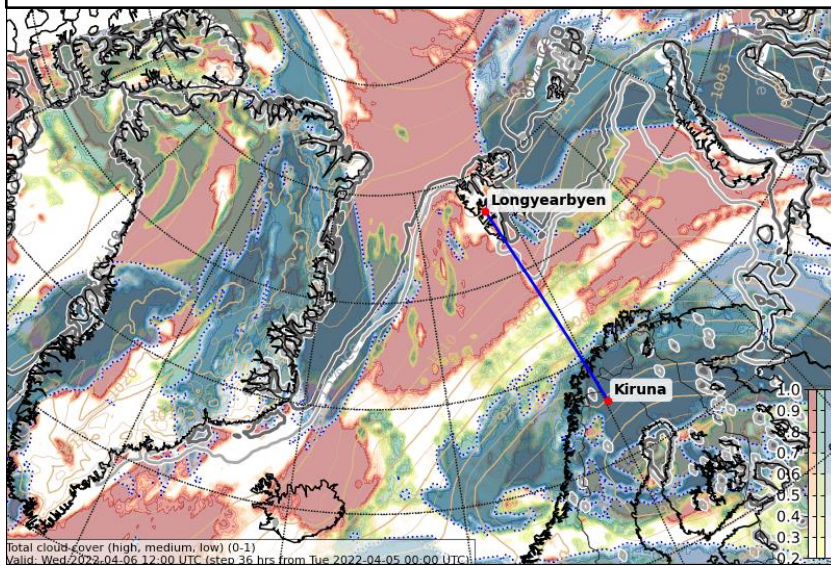
Cloud cover, CAO index, Airmasses, IVT

2022-04-05 00 UTC: 36 – 132h

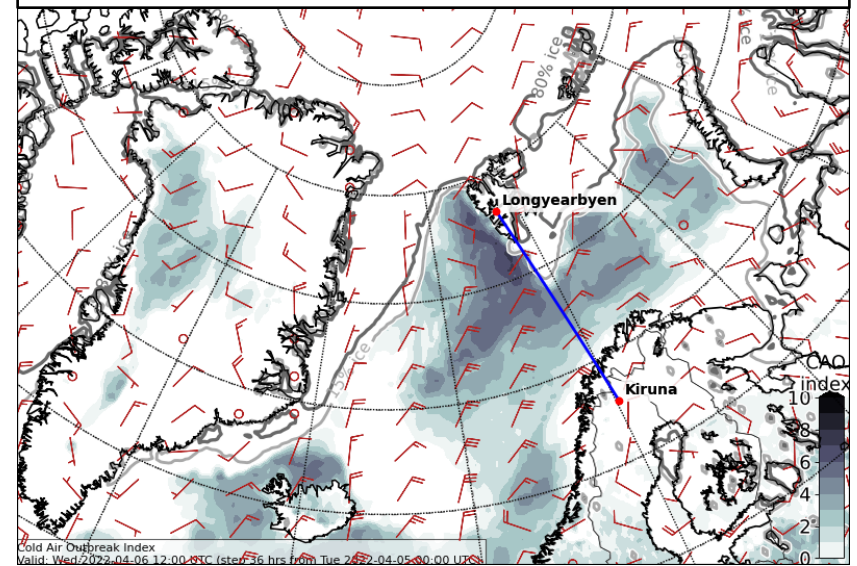
Cloud cover & 850hPa θ_e & CAO & IVT

Wed, 2022-04-06 12 UTC (+36h)

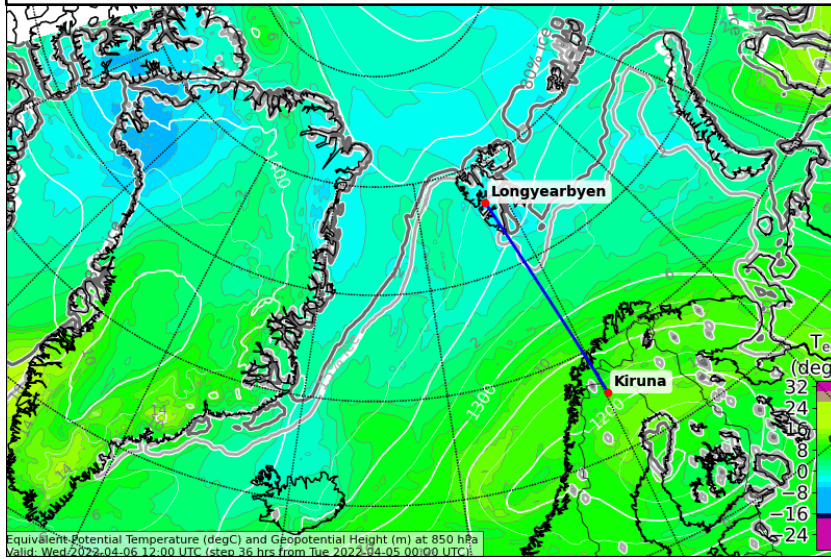
Total cloud cover



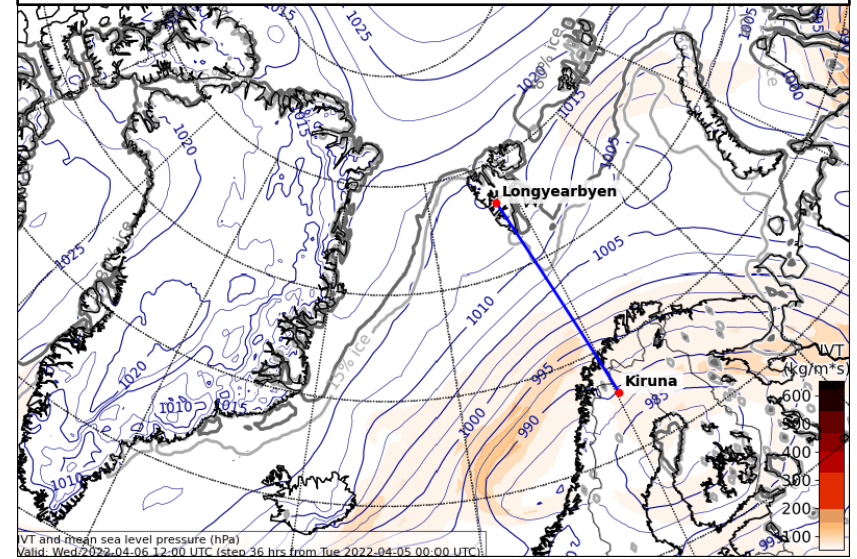
CAO Index



850 hPa Equiv. pot. temperature

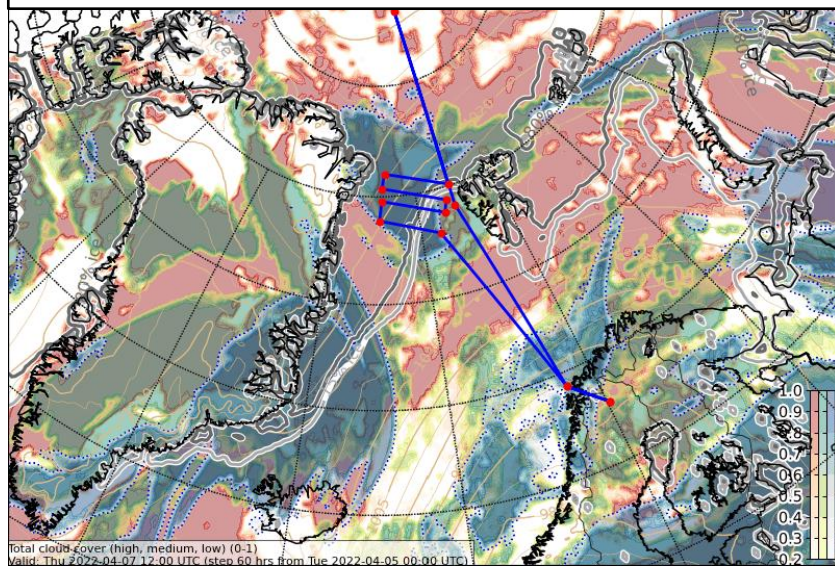


Integrated water vapour transport

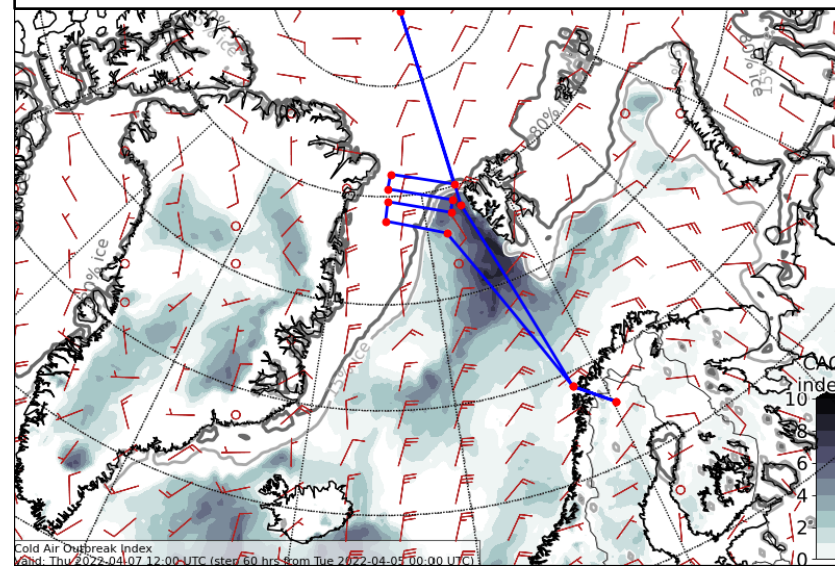


Thu, 2022-04-07 12 UTC (+60h)

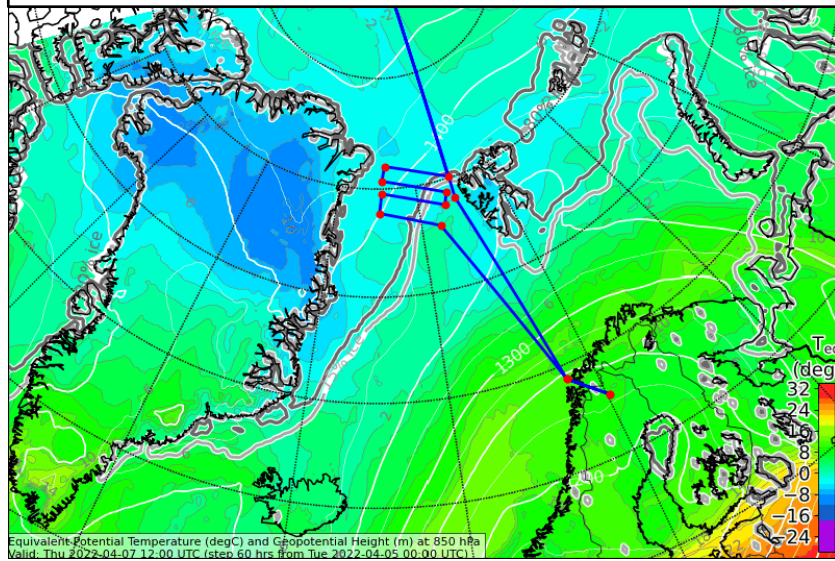
Total cloud cover



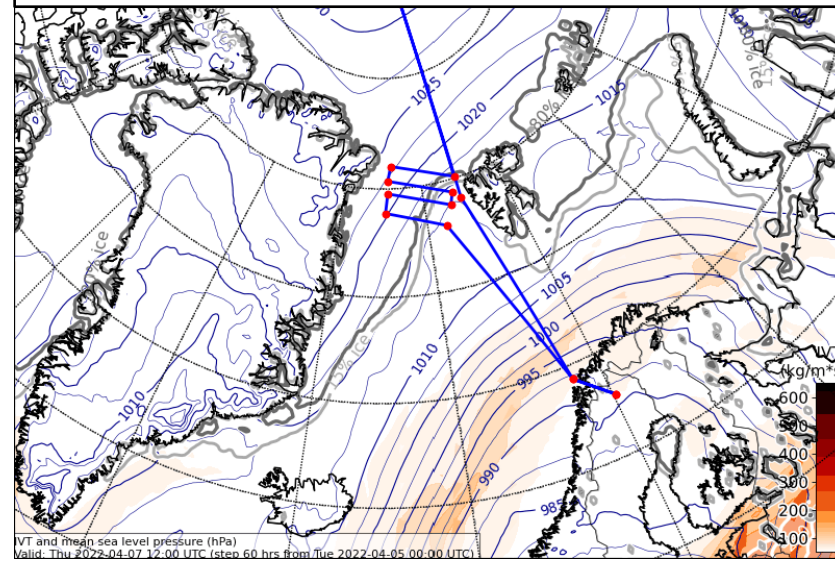
CAO Index



850 hPa Equiv. pot. temperature

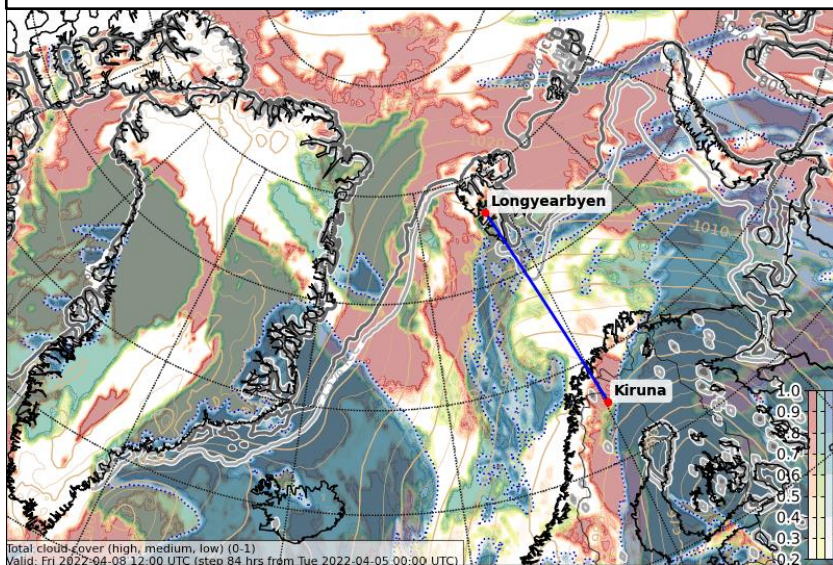


Integrated water vapour transport

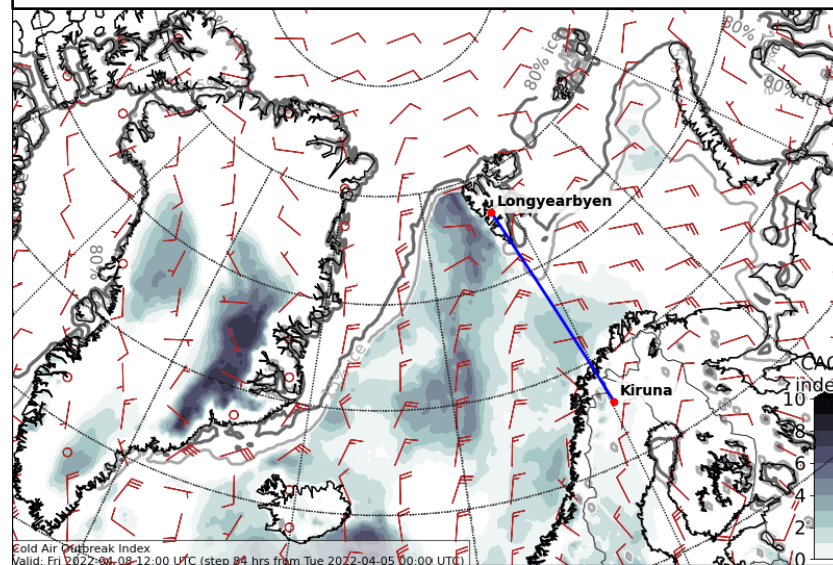


Fri, 2022-04-08 12 UTC (+84h)

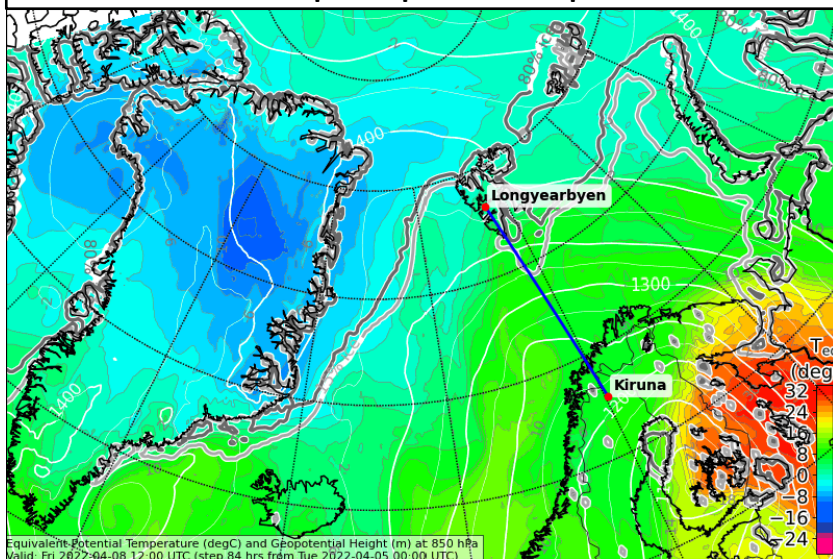
Total cloud cover



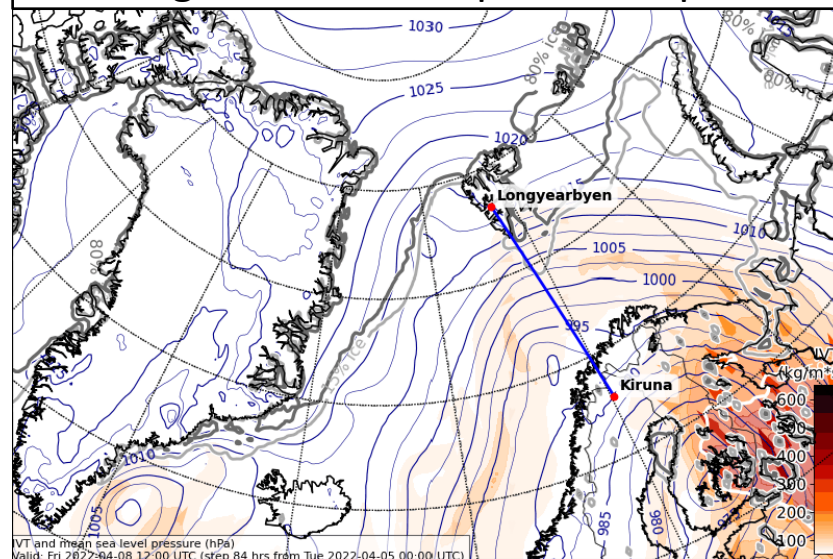
CAO Index



850 hPa Equiv. pot. temperature

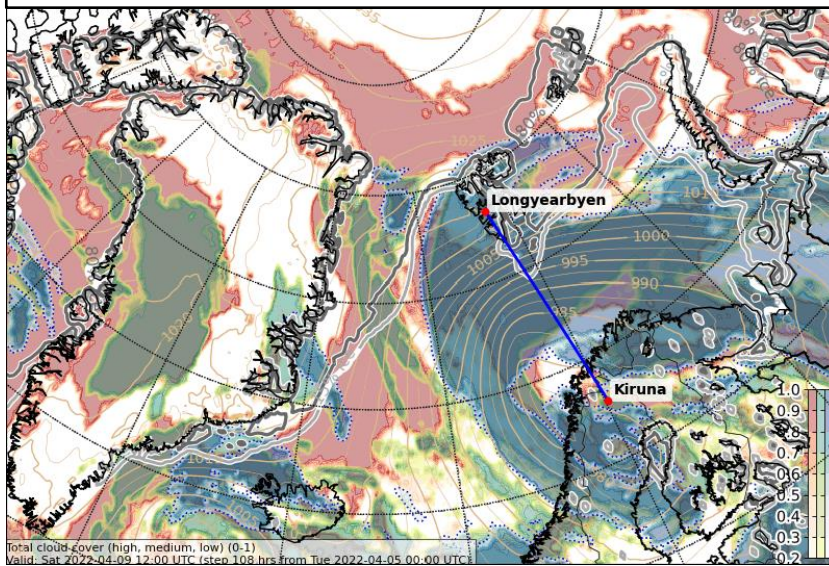


Integrated water vapour transport

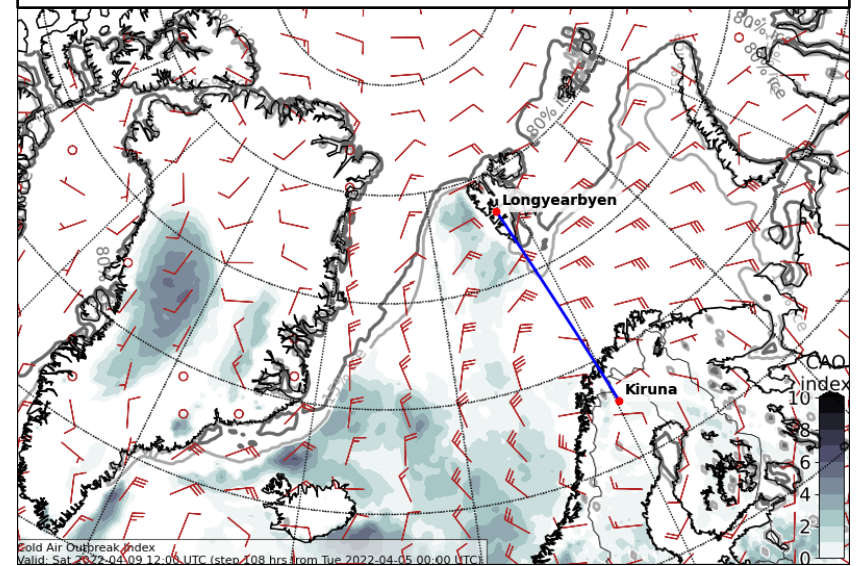


Sat, 2022-04-09 12 UTC (+108h)

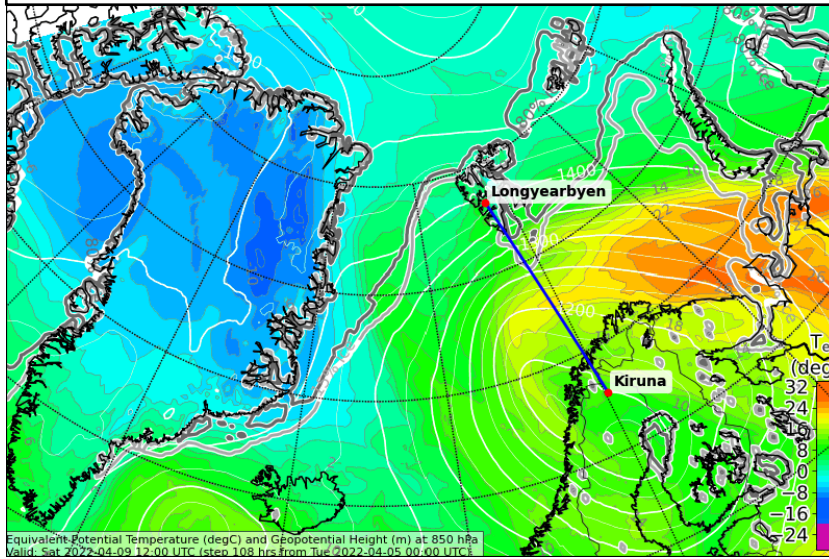
Total cloud cover



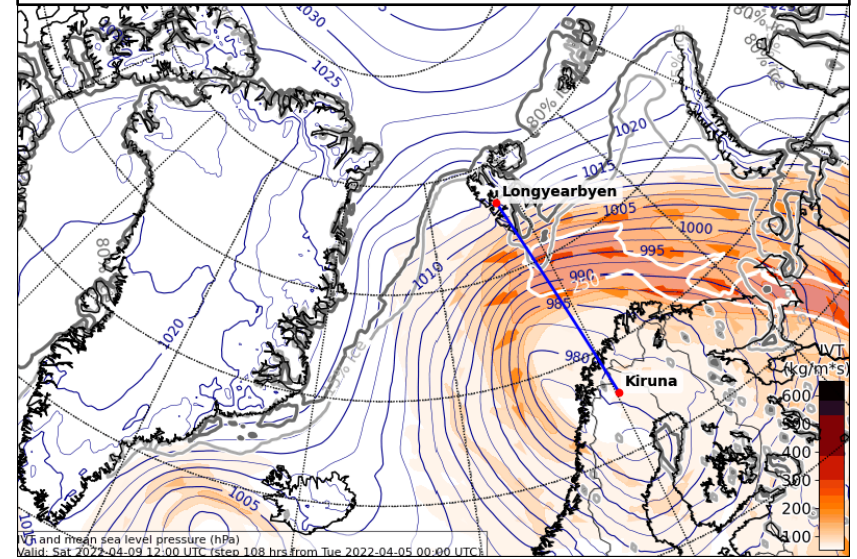
CAO Index



850 hPa Equiv. pot. temperature

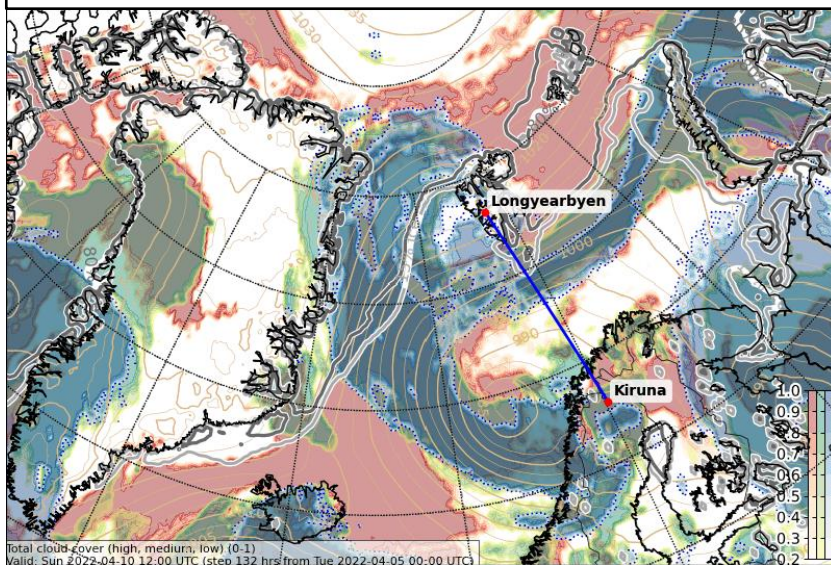


Integrated water vapour transport

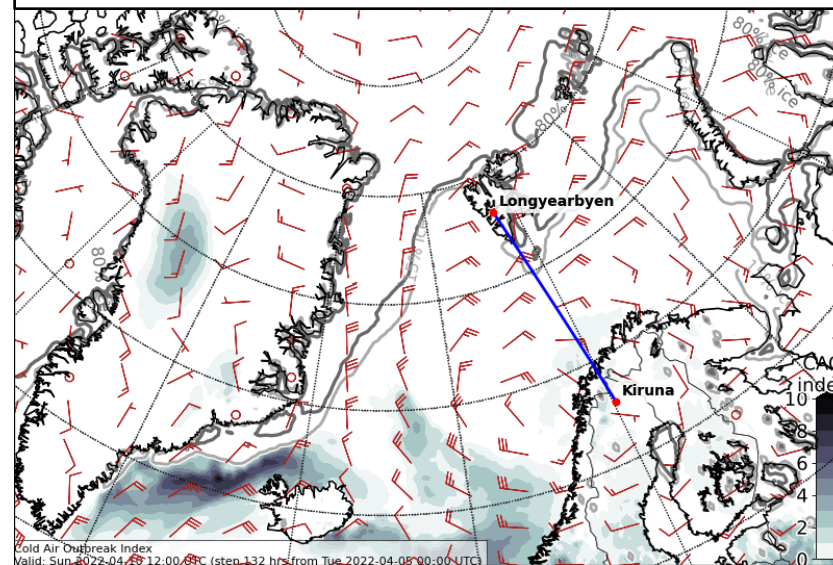


Sun, 2022-04-10 12 UTC (+132h)

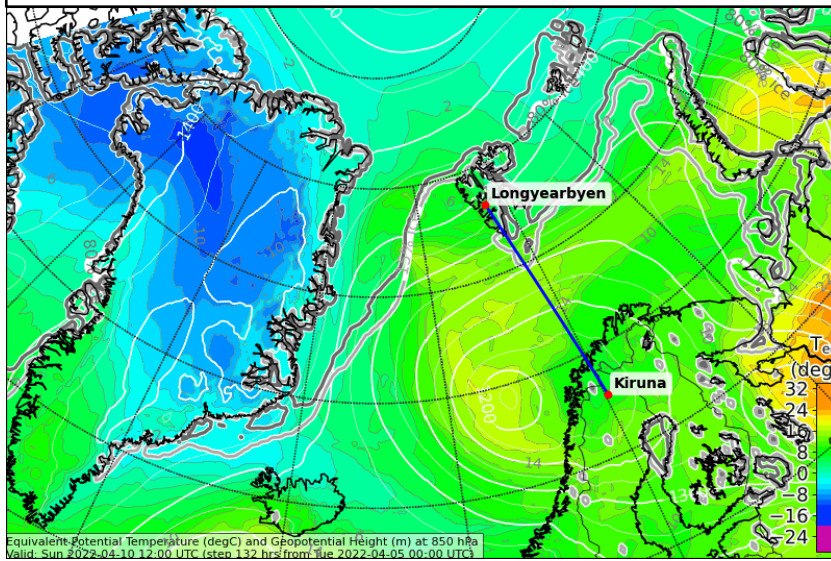
Total cloud cover



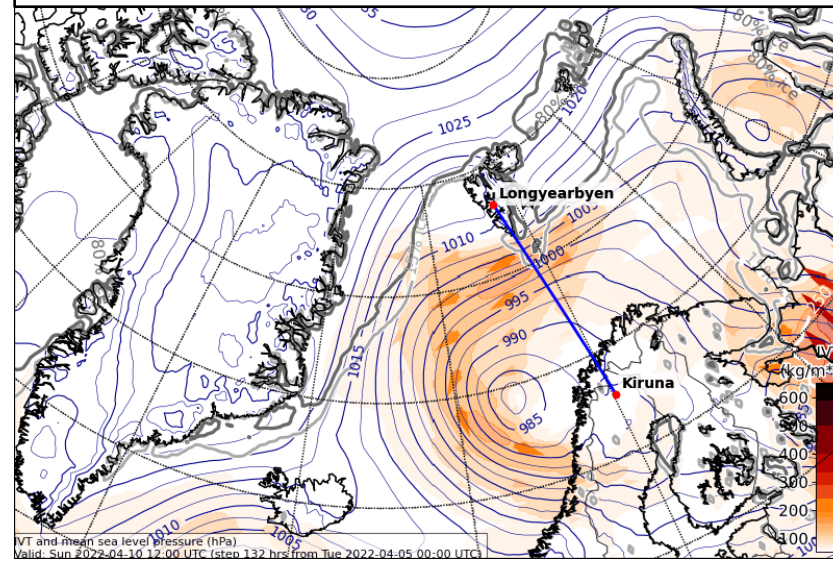
CAO Index



850 hPa Equiv. pot. temperature



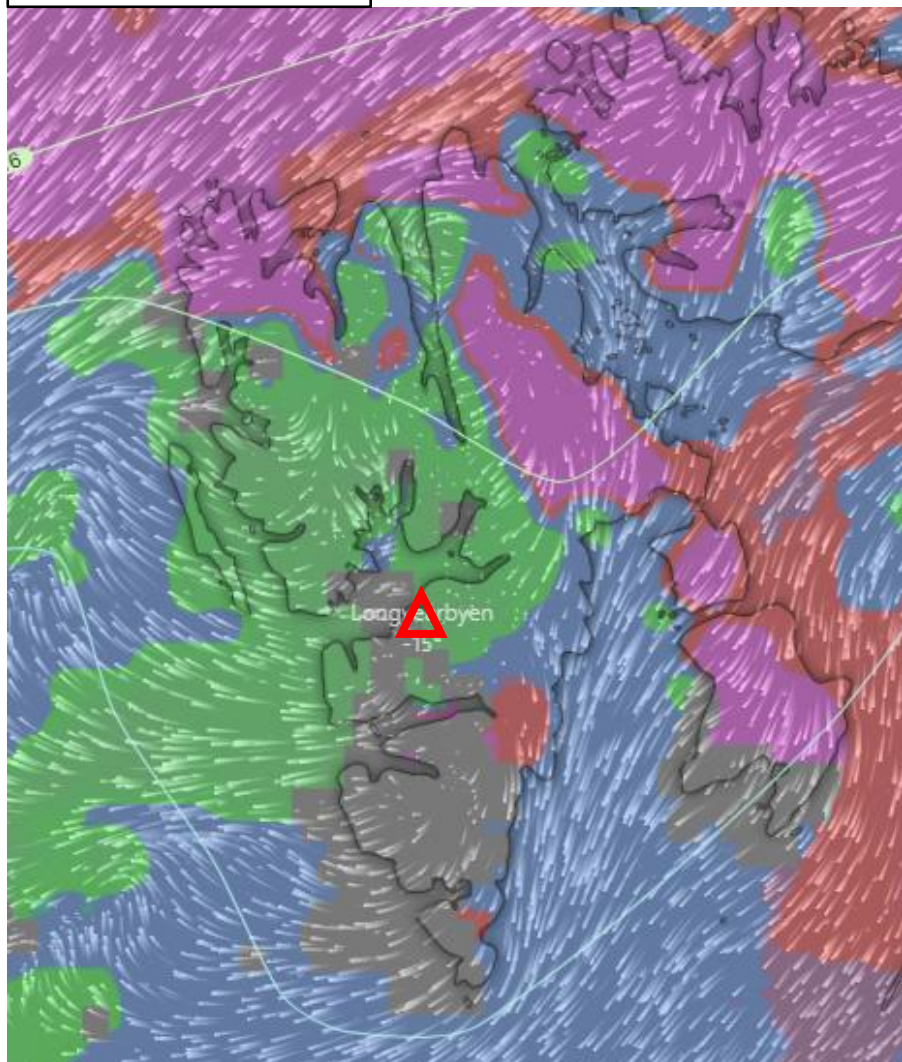
Integrated water vapour transport



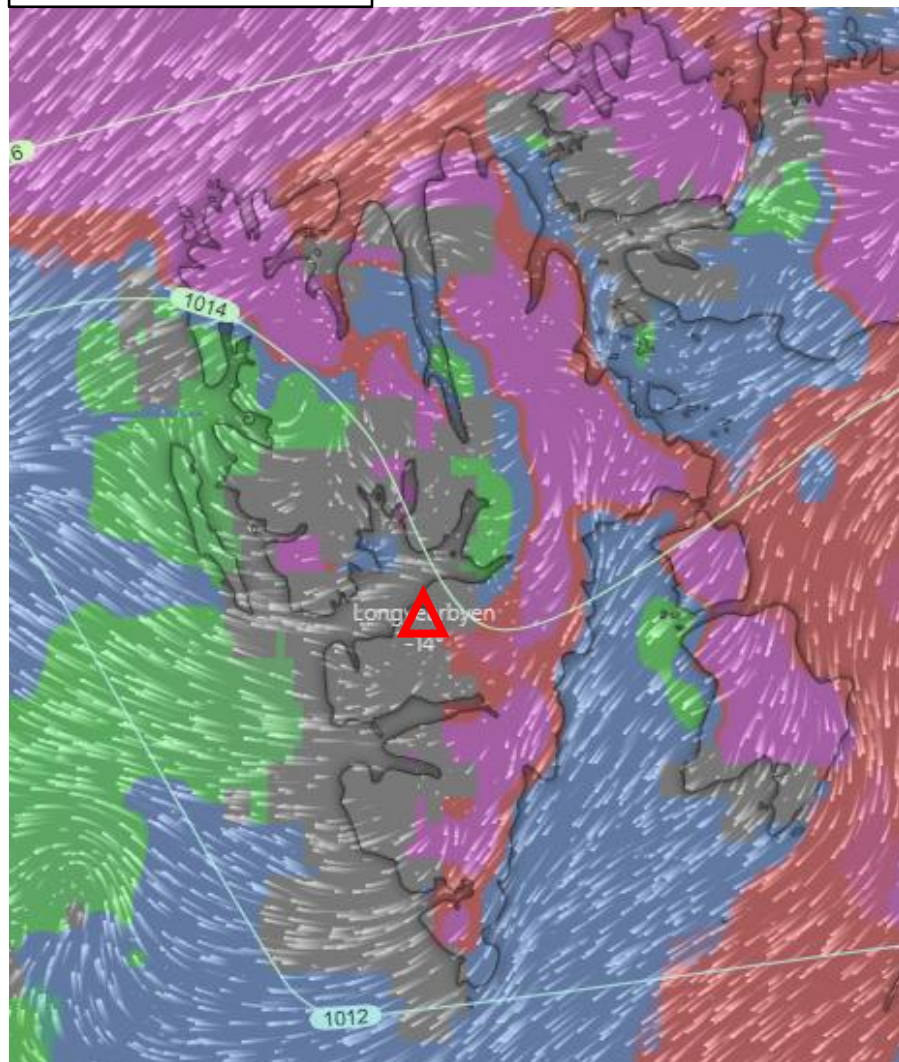
Airport meteograms & local weather at Svalbard

Thu, 2022-04-07, ECMWF Cloud base height

09 UTC



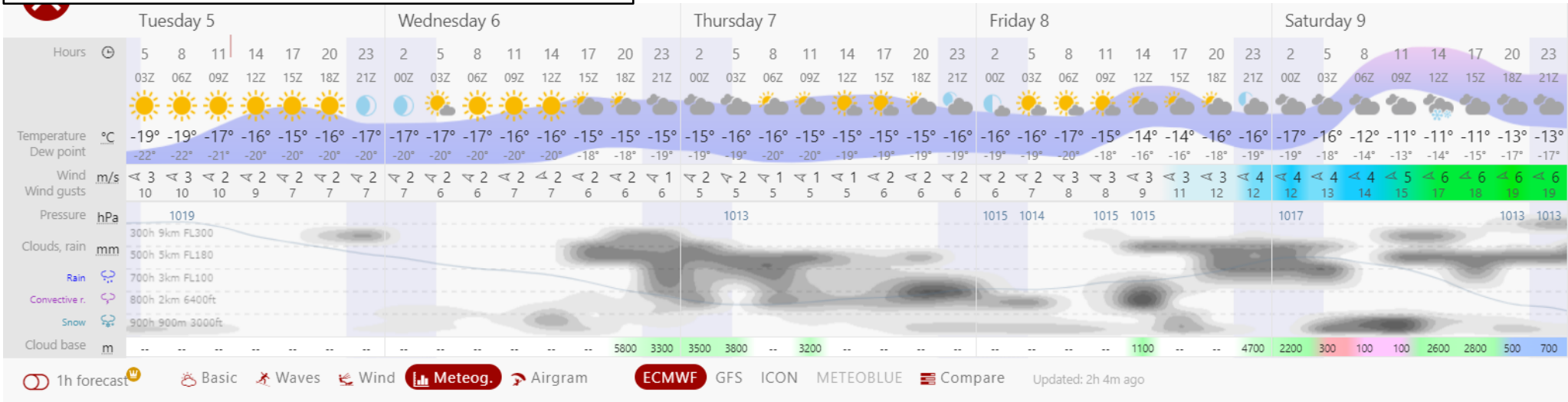
15 UTC



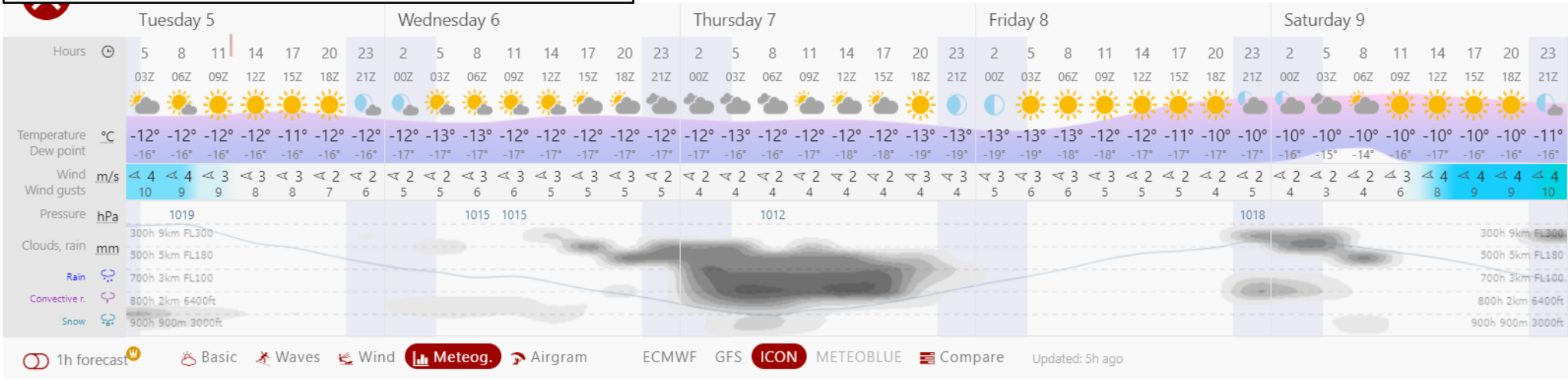
m 0 300 500 1.5k

Longyearbyen:

ECWMF

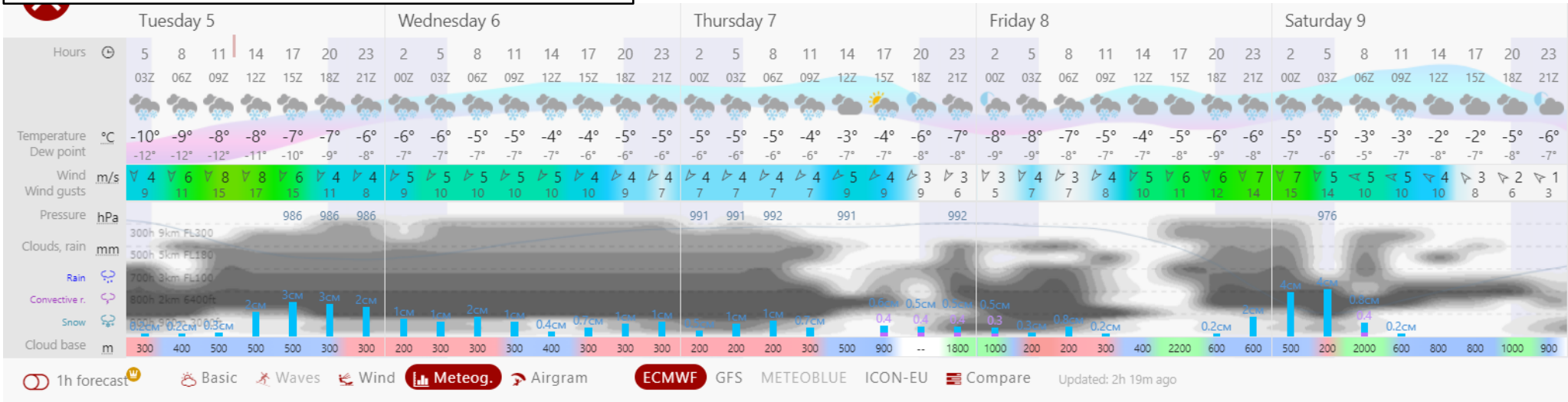


ICON

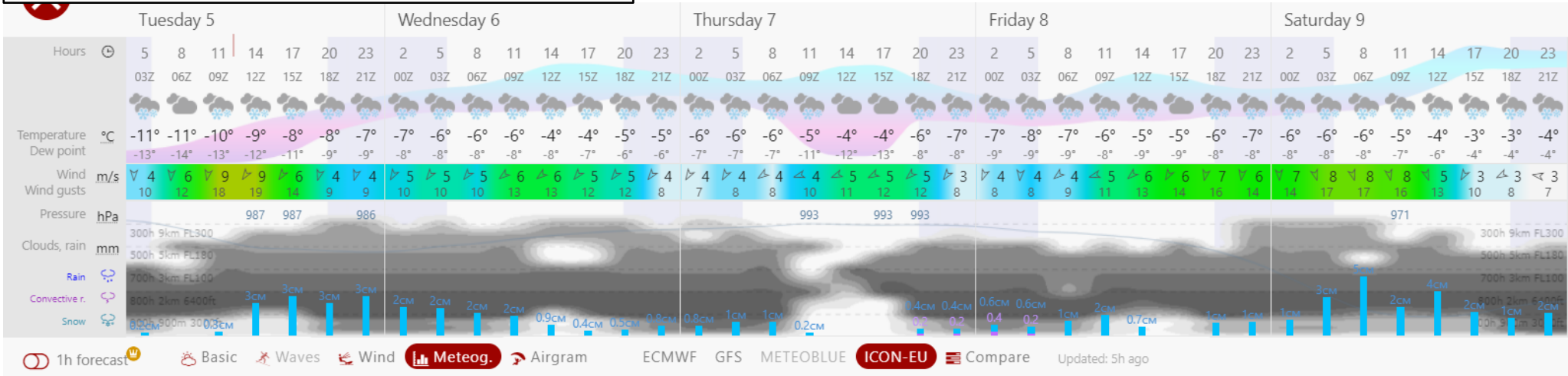


Kiruna:

ECWMF



ICON



Summary

Summary: Weather Briefing 2022-04-05, 17:00 LT

- **Thursday, 2022-04-07:**
 - Cirrus field now very certain west of Svalbard
 - Cloudfree/small cloud fraction in central Arctic (ECMWF/ICON)
 - Polar Low will be formed from convergence lines there
 - Begin of Cold Air Advection in western Fram Strait
- **Friday, 2022-04-08:**
 - Aged Polar Low in the Fram Strait
 - On-ice winds and warmer temperatures east of Svalbard due to Polar Low
- **Saturday, 2022-04-09:**
 - Arrival of strong moist air transport between Svalbard and Norway
- **Sunday, 2022-04-10:**
 - Weakened warm air transport extends into Fram Strait
 - Mushroom cirrus over both ocean and sea ice