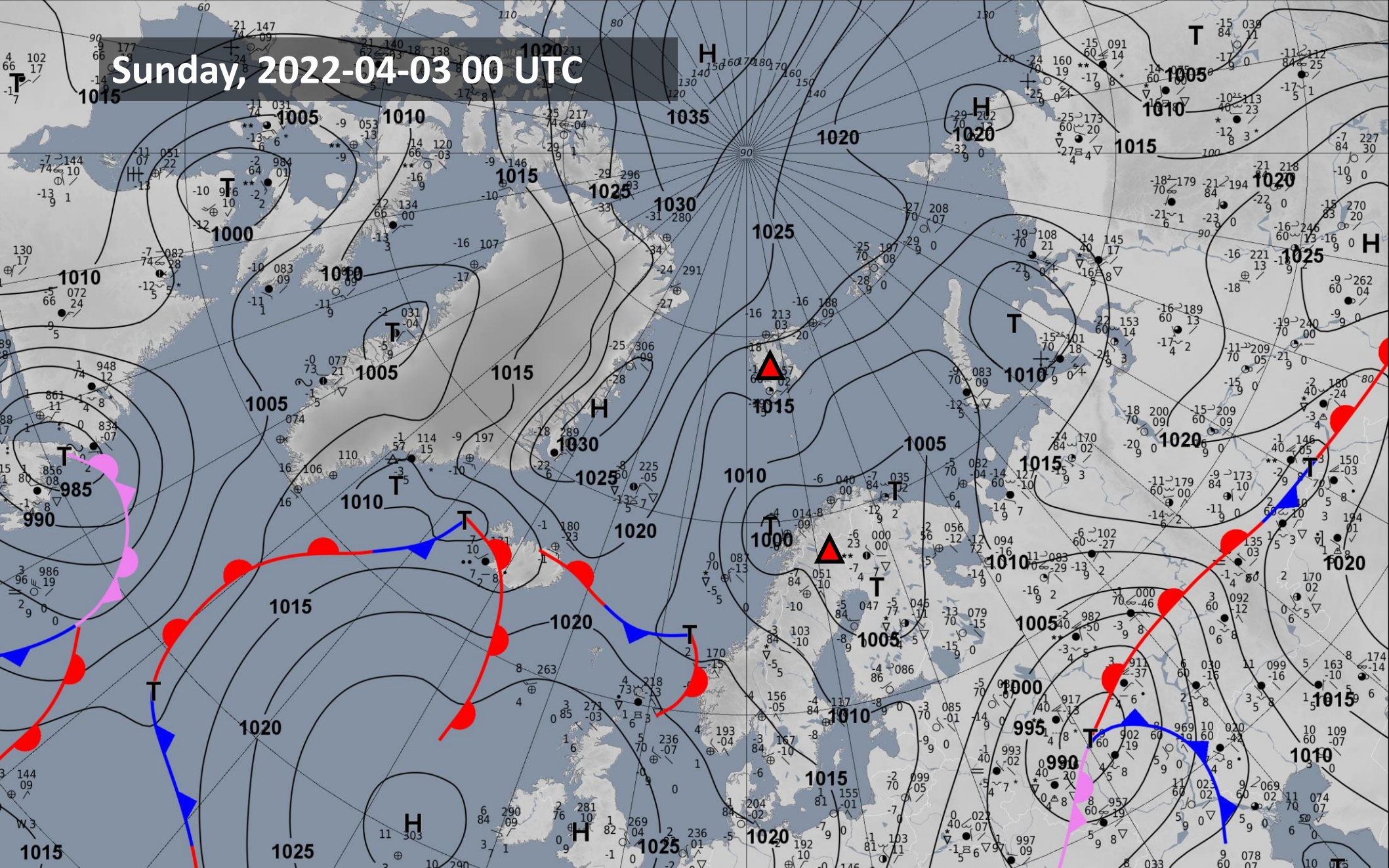


Weather update/briefing HALO-(AC)³

Sunday, 2022-04-03, 09:00 LT

Surface Analysis
Sunday, 2022-04-03 00 UTC
DWD

Sunday, 2022-04-03 00 UTC



Surface wind development and precipitation

2022-04-02 12 UTC: 48 – 96h

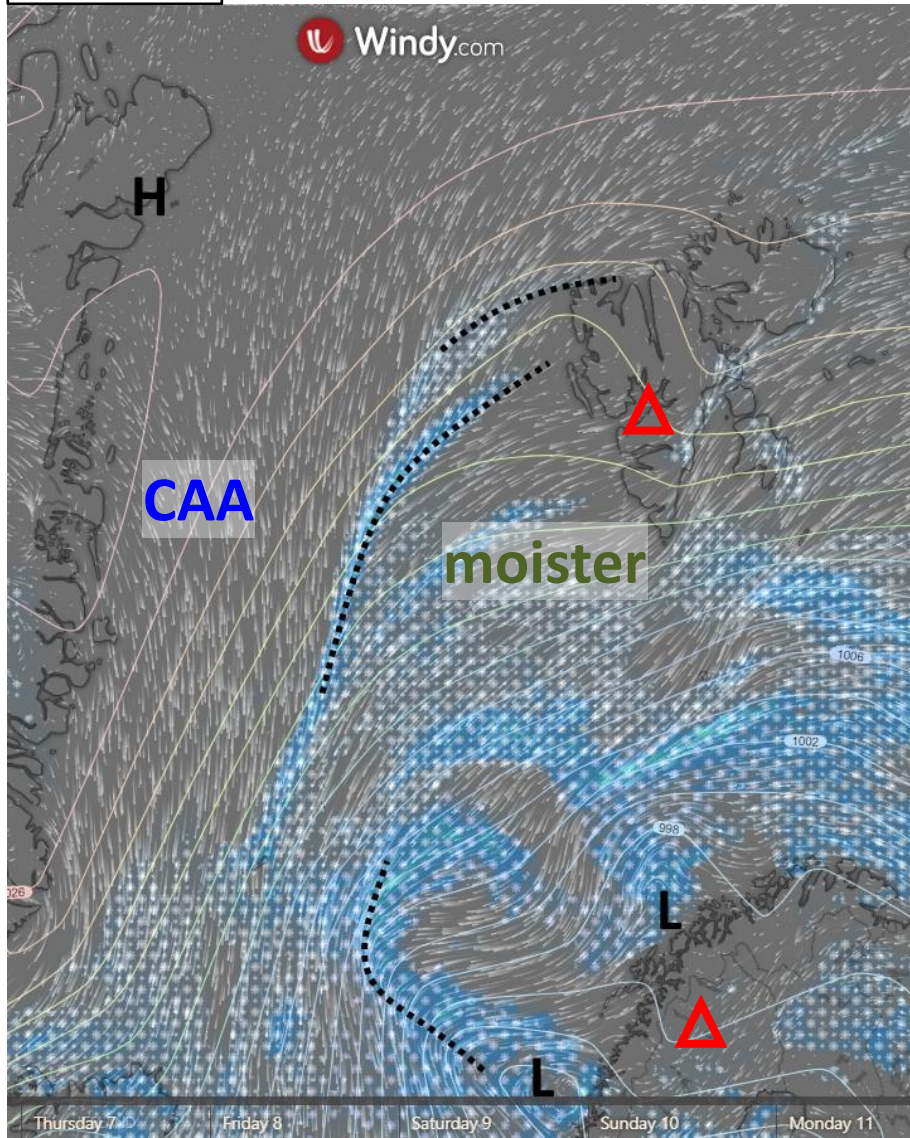
ECMWF & ICON

CAA: Cold Air Advection

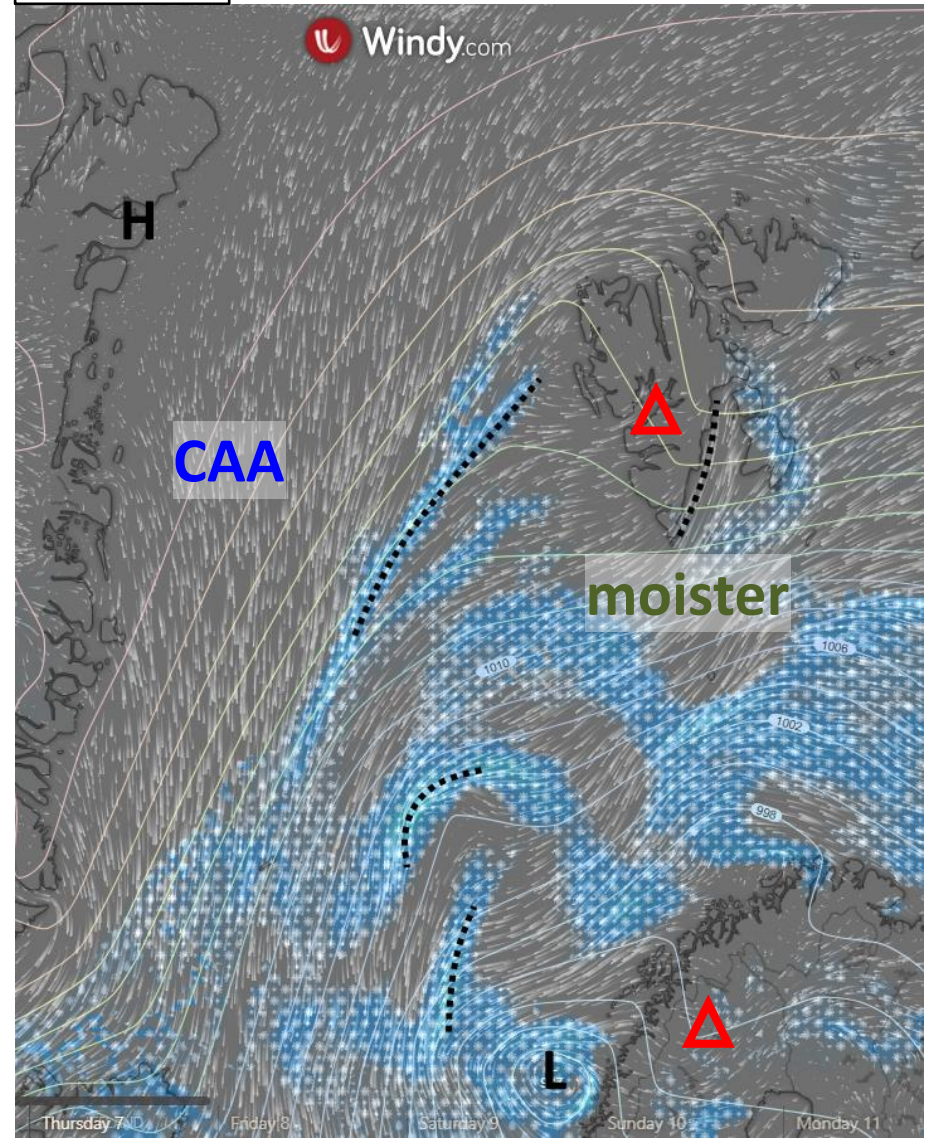
WAA: Warm Air Advection

Monday, 2022-04-04 12 UTC (+48h)

ECMWF

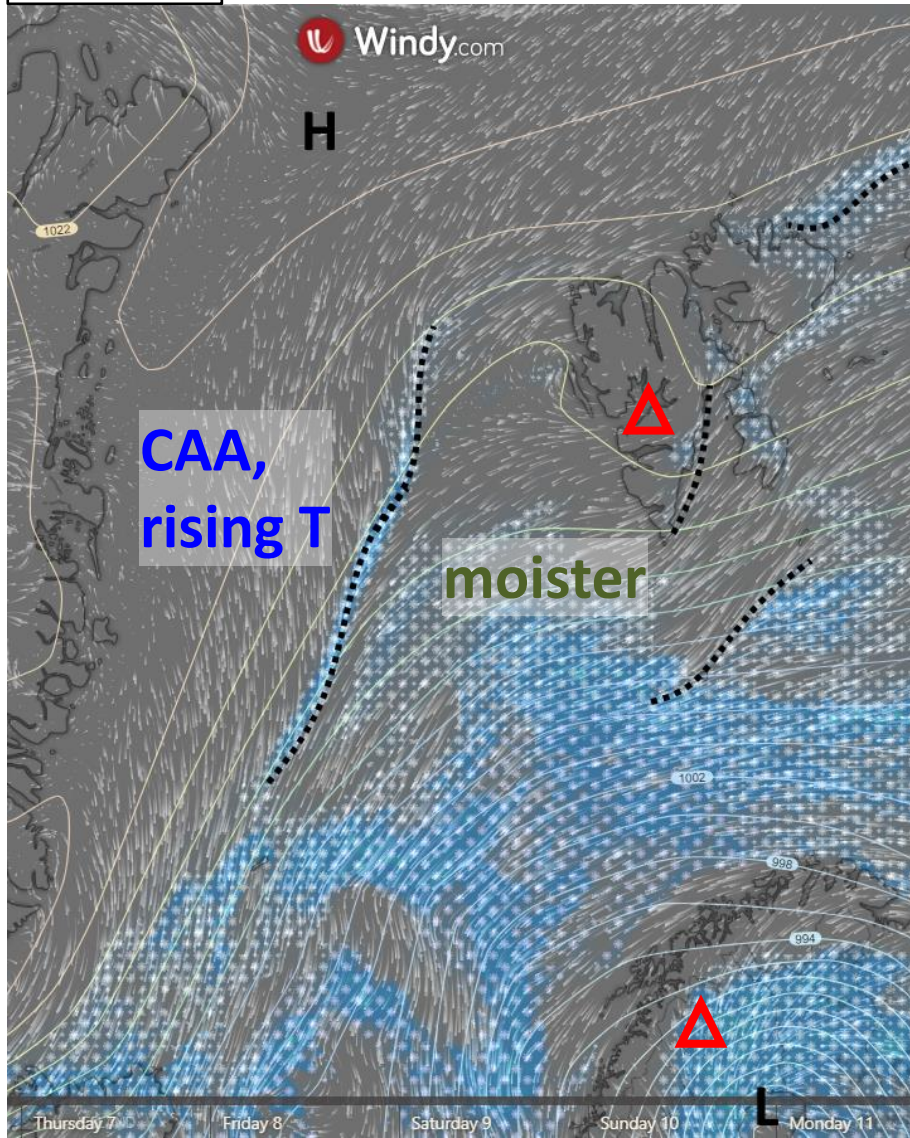


ICON

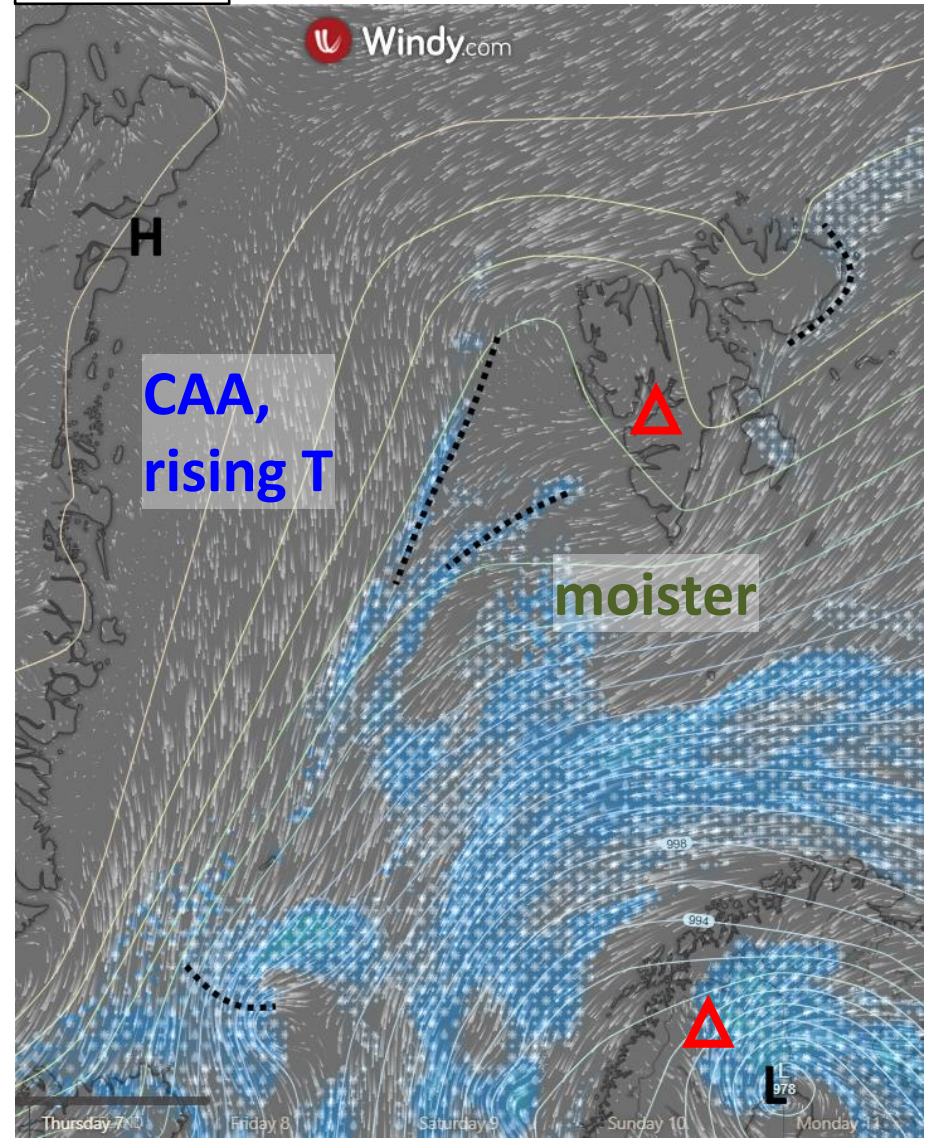


Tuesday, 2022-04-05 12 UTC (+72h)

ECMWF

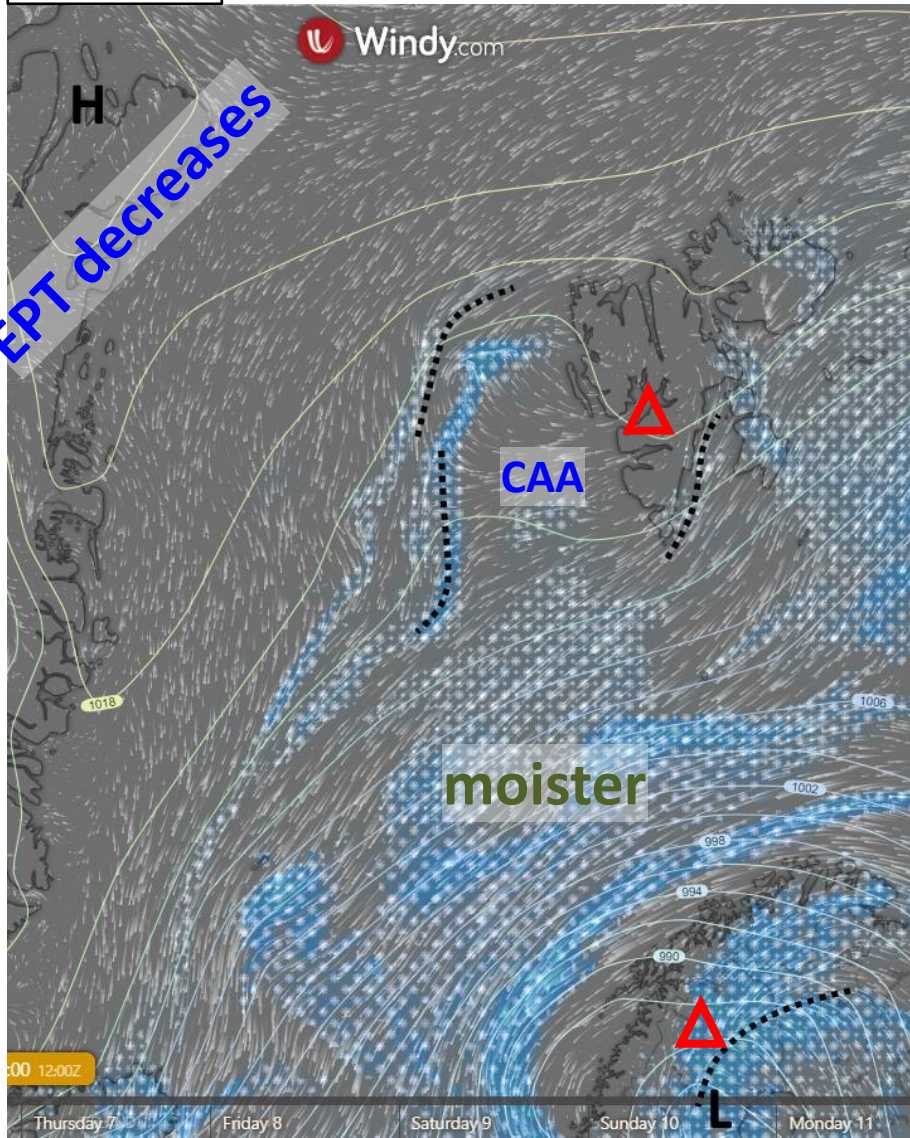


ICON

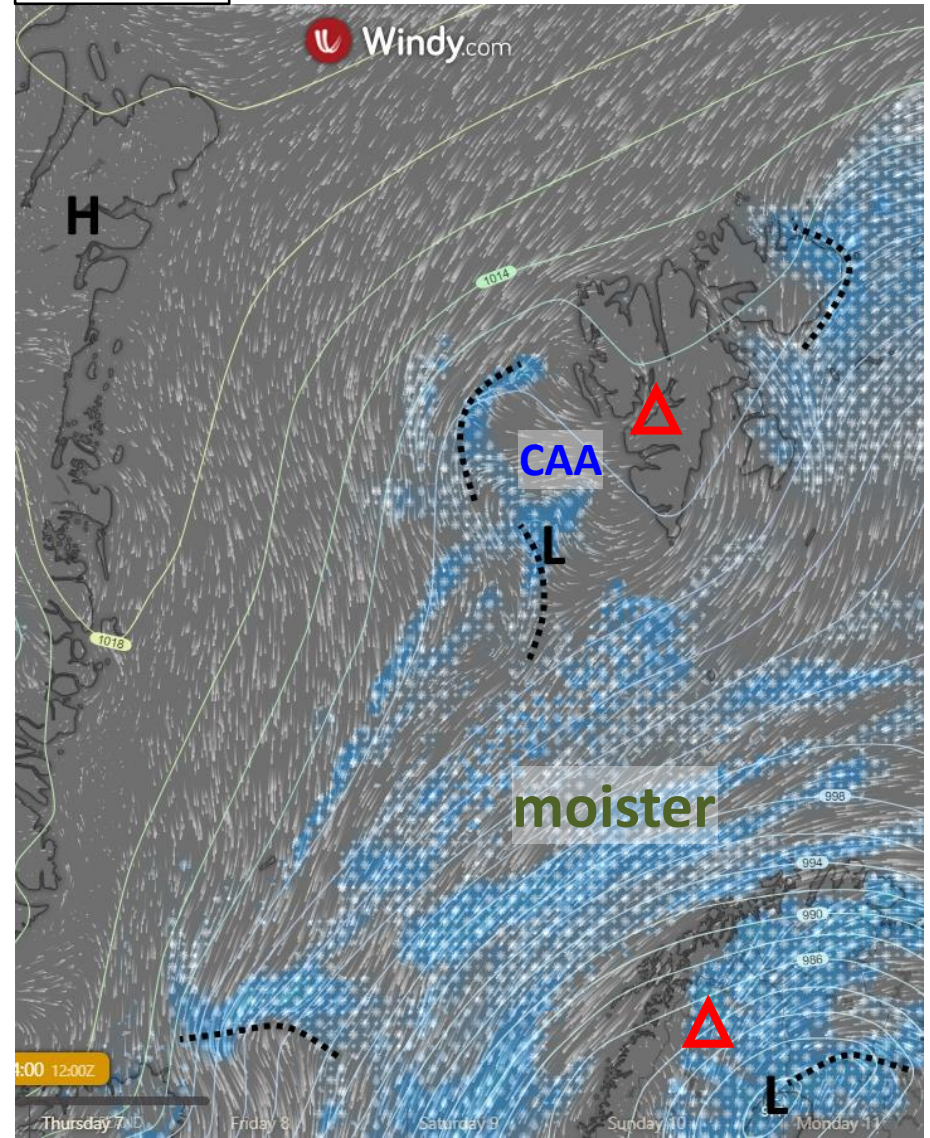


Wednesday, 2022-04-06 12 UTC (+96h)

ECMWF



ICON



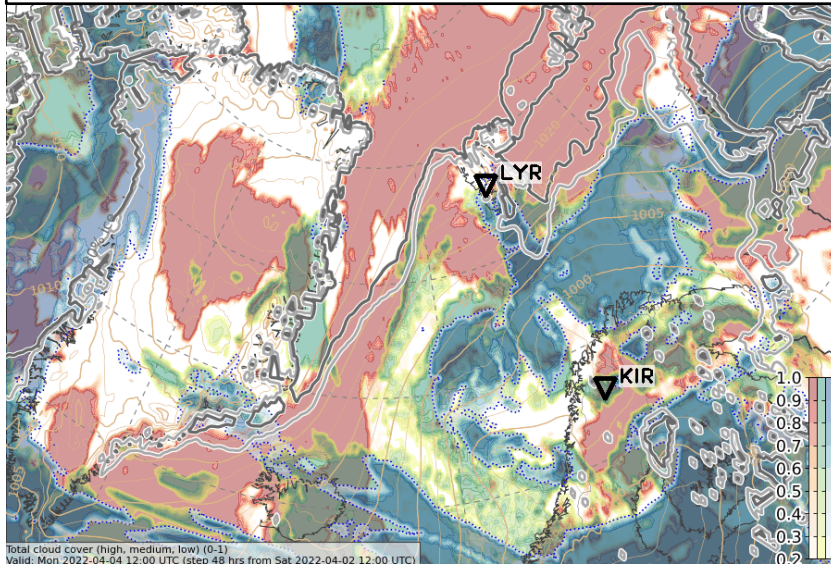
Cloud cover, CAO index, Airmasses, IVT

2022-04-02 12 UTC: 48 – 96h

Cloud cover & 850hPa θ_e & CAO & IVT

Mon, 2022-04-04 12 UTC (+48h)

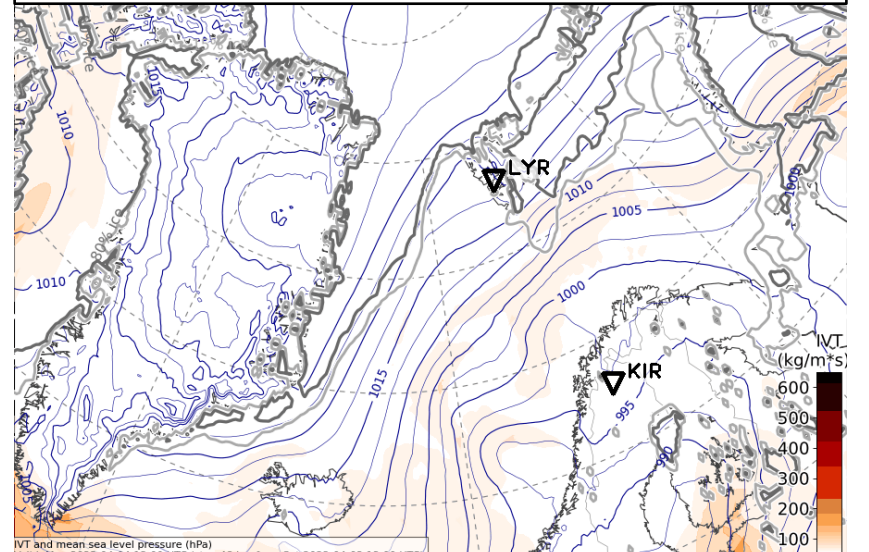
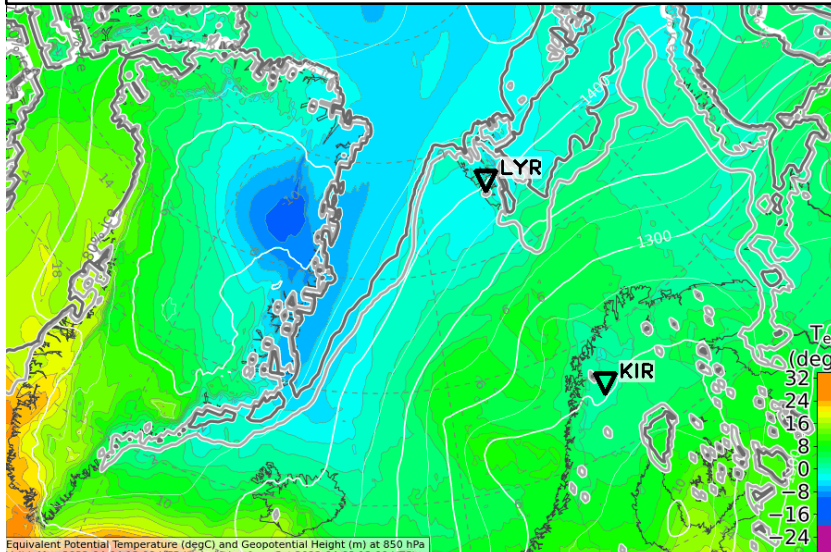
Total cloud cover



CAO Index

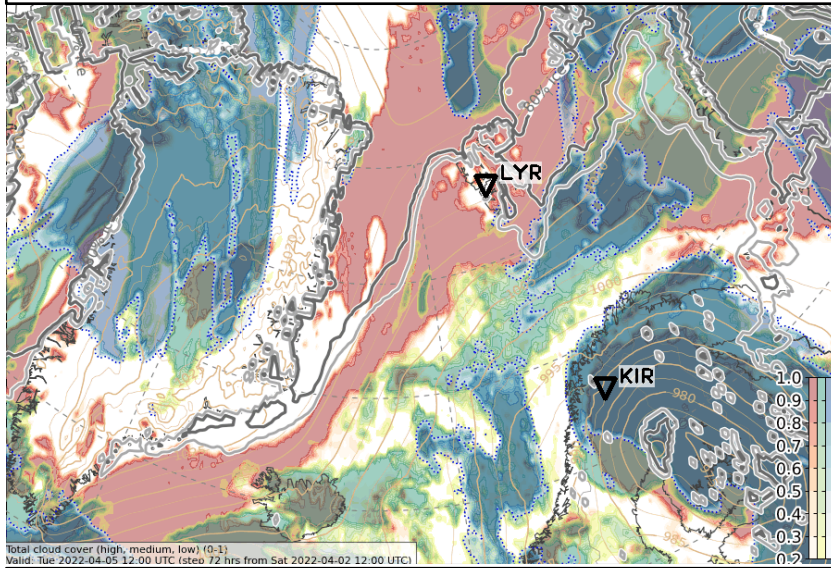
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Tue, 2022-04-05 12 UTC (+72h)

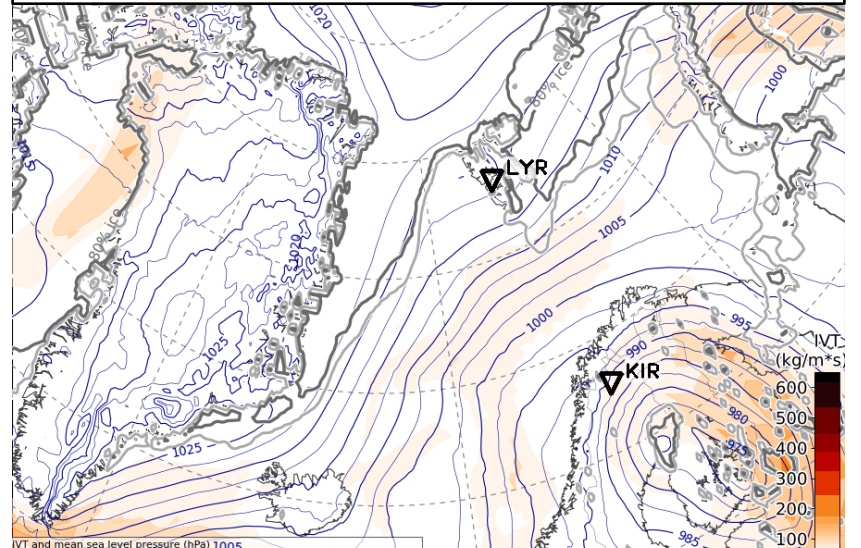
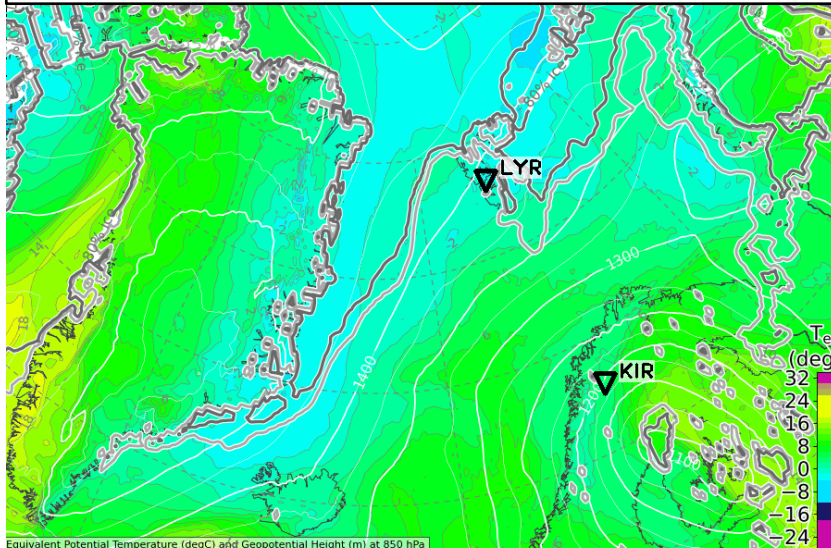
Total cloud cover



CAO Index

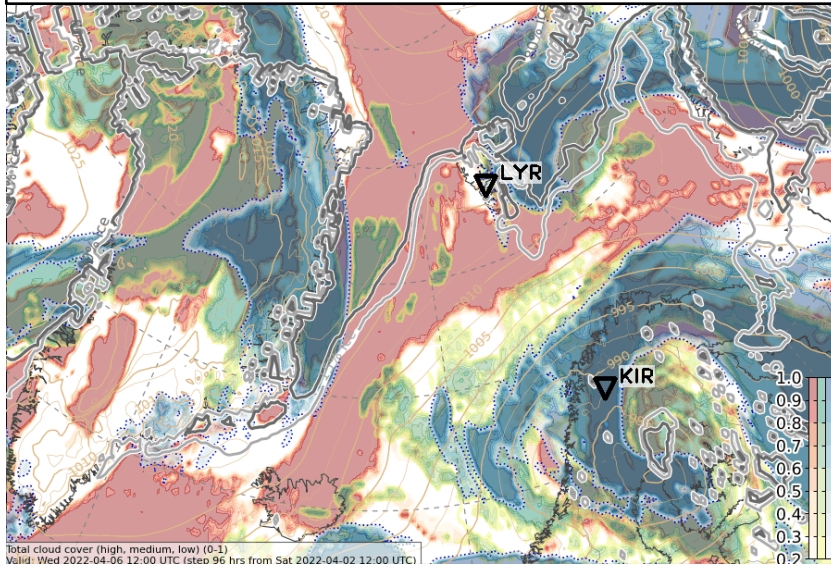
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Wed, 2022-04-06 12 UTC (+96h)

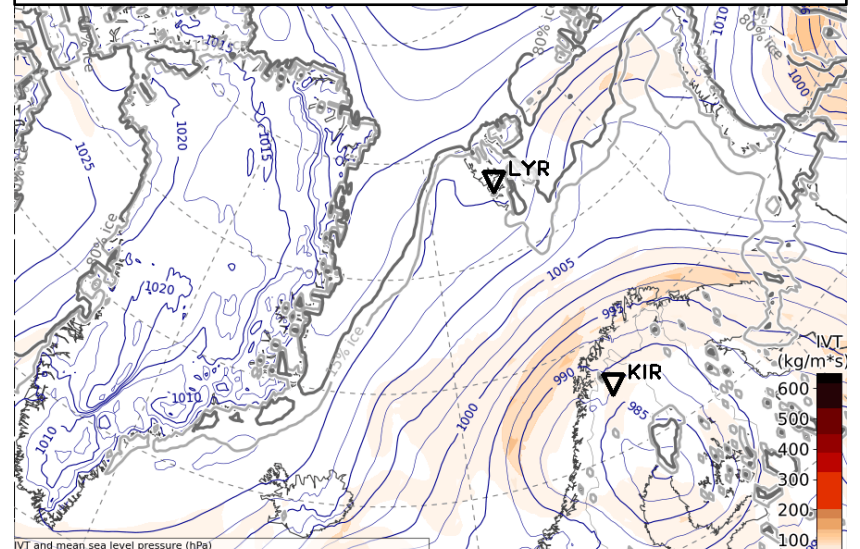
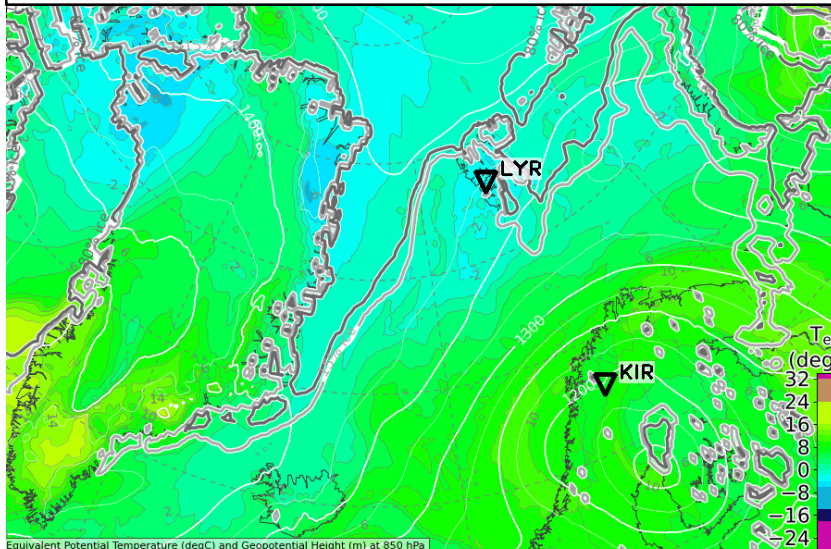
Total cloud cover



CAO Index

Integrated water vapour transport

850 hPa Equiv. pot. temperature



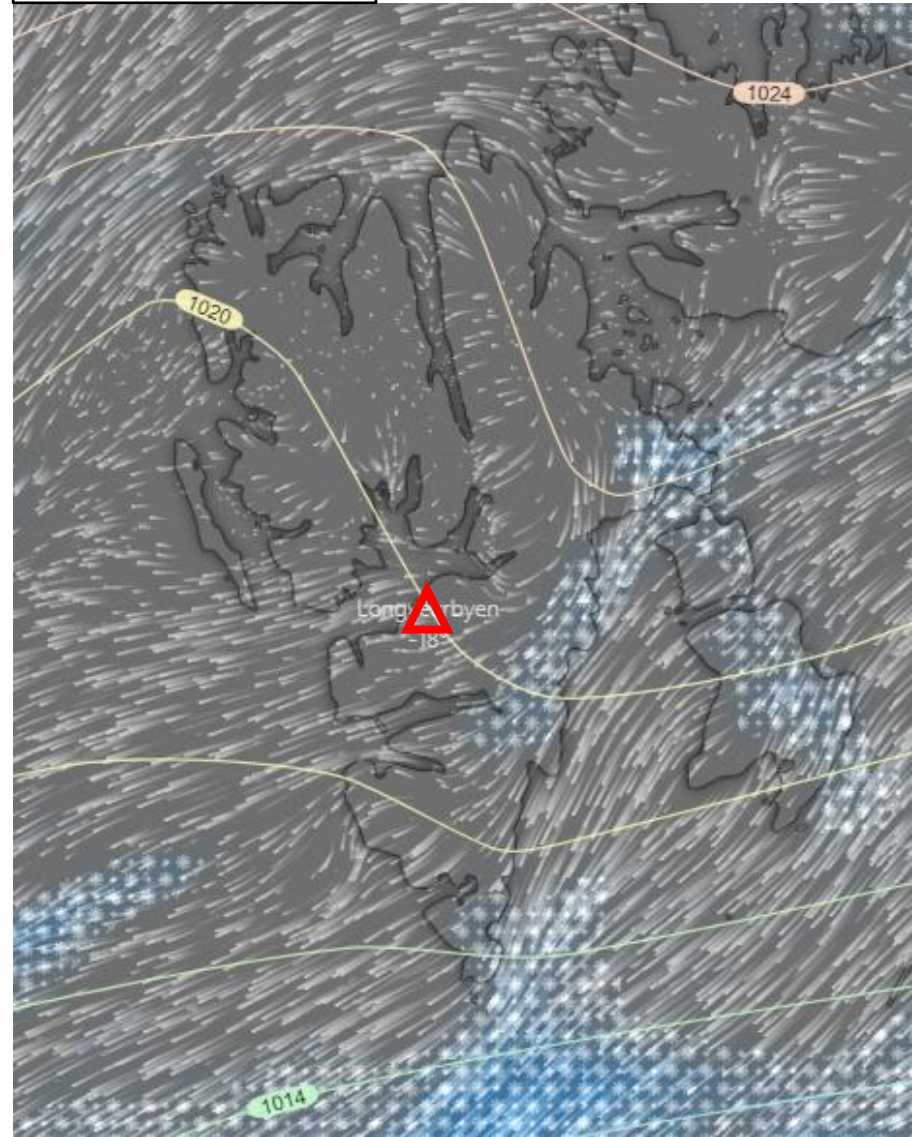
Airport meteograms & local weather at Svalbard

Mon, 2022-04-04, ECMWF precip

09 UTC

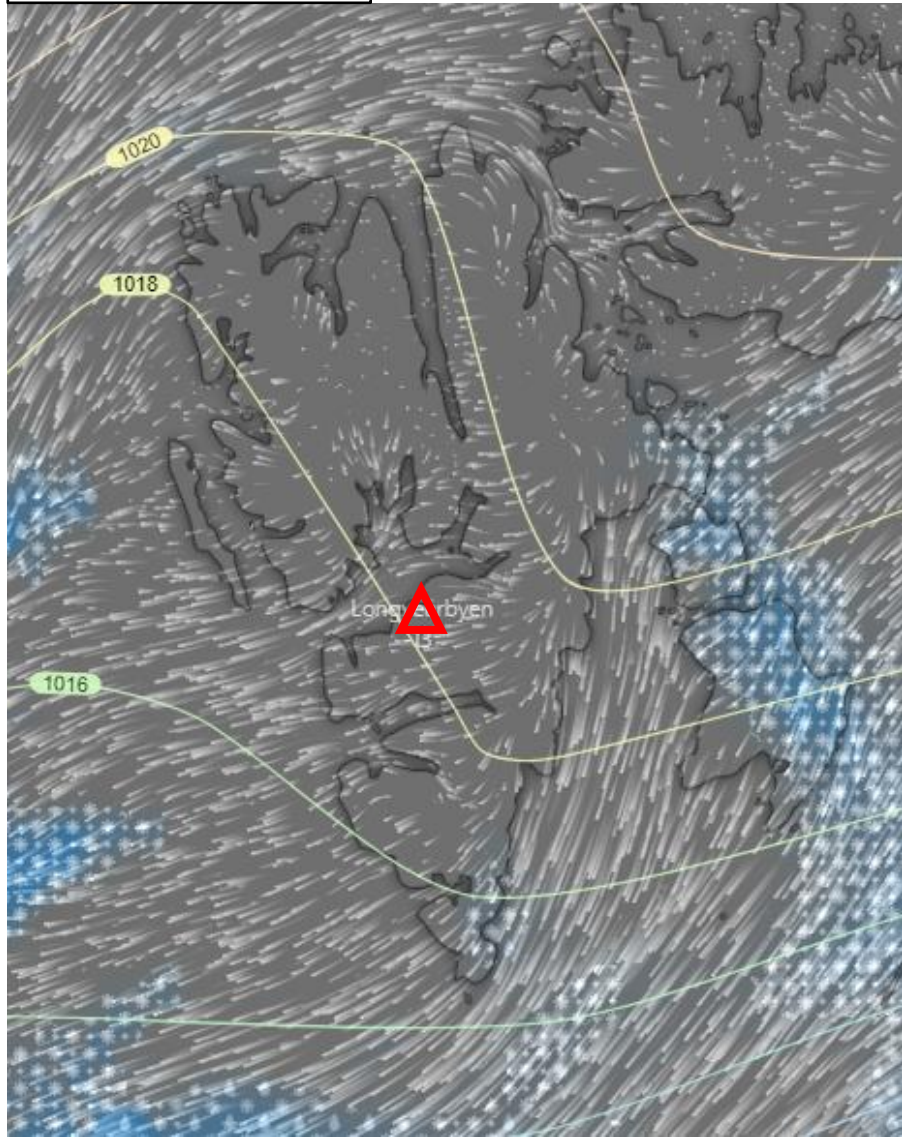


15 UTC

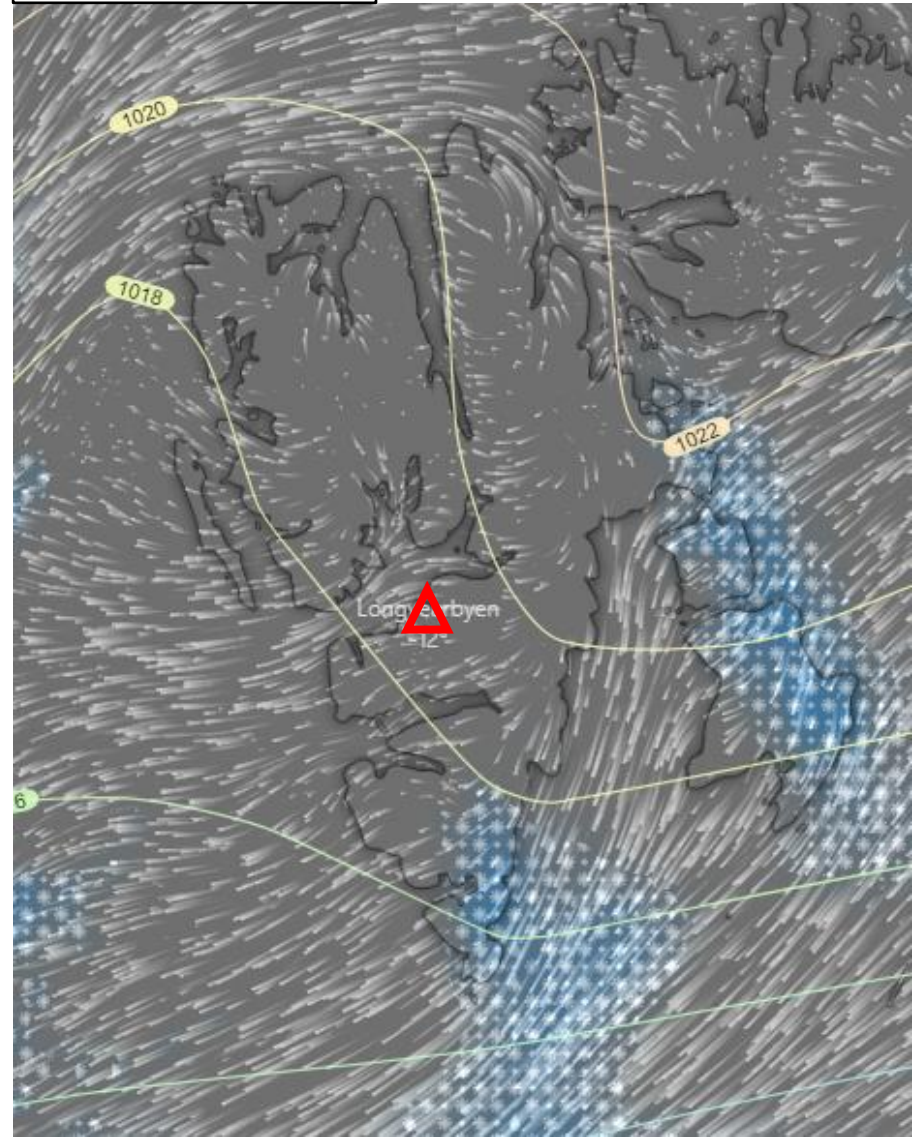


Mon, 2022-04-04, ICON precip

09 UTC

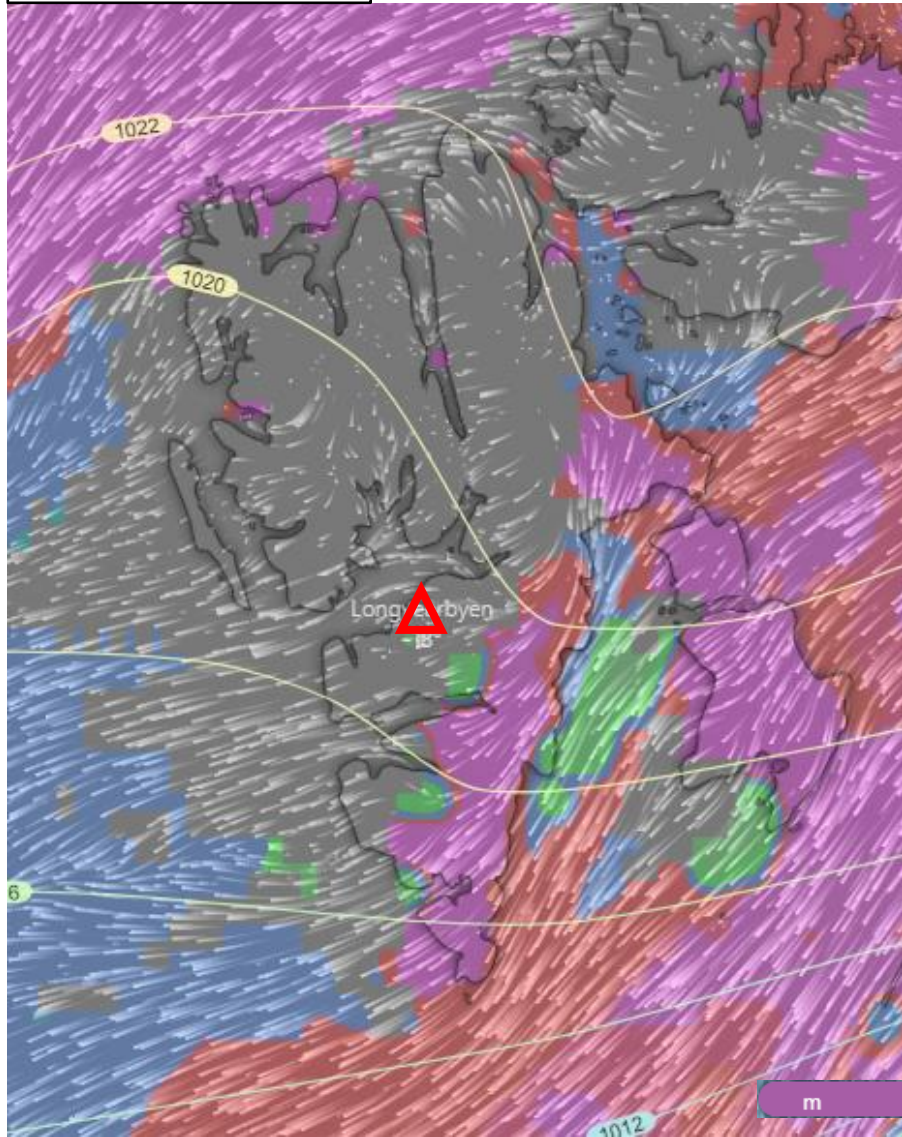


15 UTC

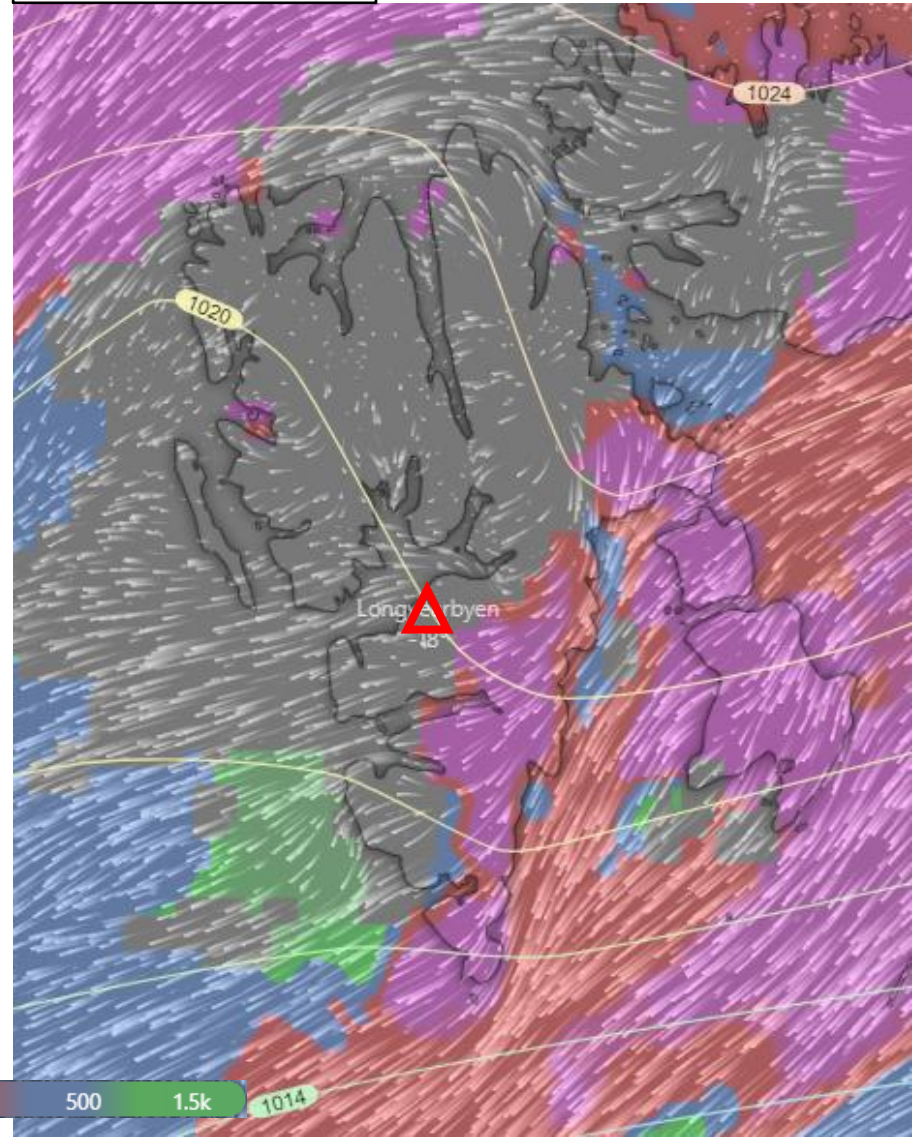


Mon, 2022-04-04, ECMWF Cloud base height

09 UTC

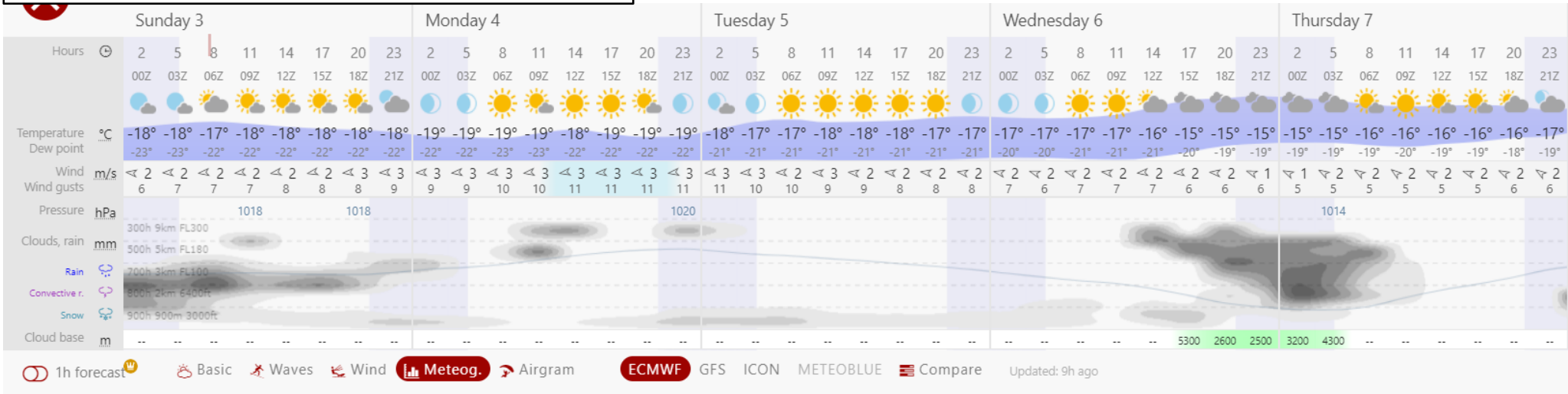


15 UTC

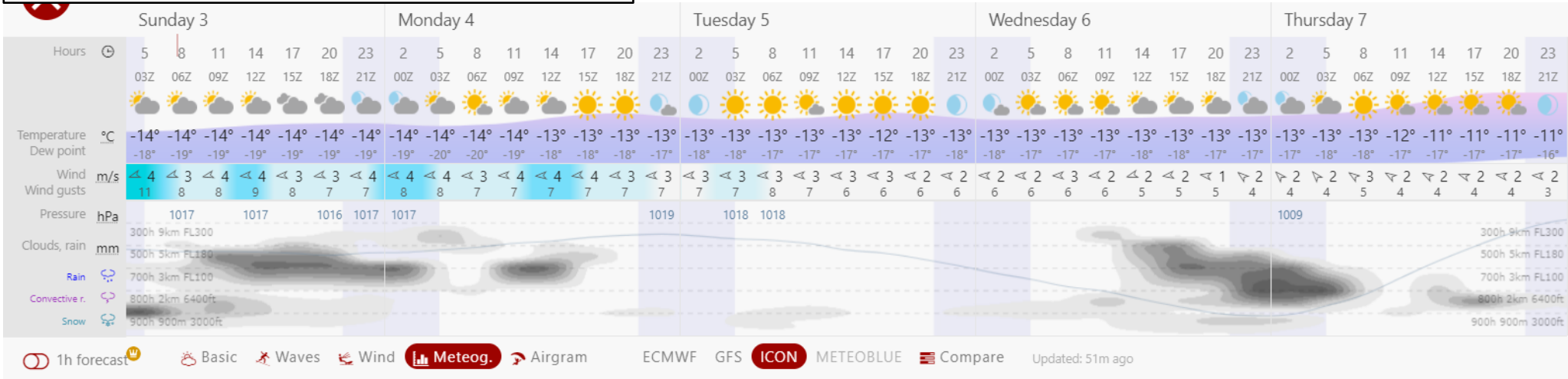


Longyearbyen:

ECWMF



ICON



Summary

Summary: Weather Update 2022-04-02, 09:00 LT

- **Monday, 2022-04-03:**
 - Convergence line separates cold and dry from moister airmass
 - Easterly flow in eastern Fram Strait and south of Svalbard
 - Northerly flow in western Fram Strait
- **Tuesday, 2022-04-04:**
 - Temperature in Fram Strait increases
 - Convergence line fades
 - Weaker winds in central Fram Strait
 - Moist air with precip. between Norway and Svalbard
- **Wednesday, 2022-04-05:**
 - Moist air with precip. still between Norway and Svalbard
 - Greenland airmass development: Strong cooling and drying