

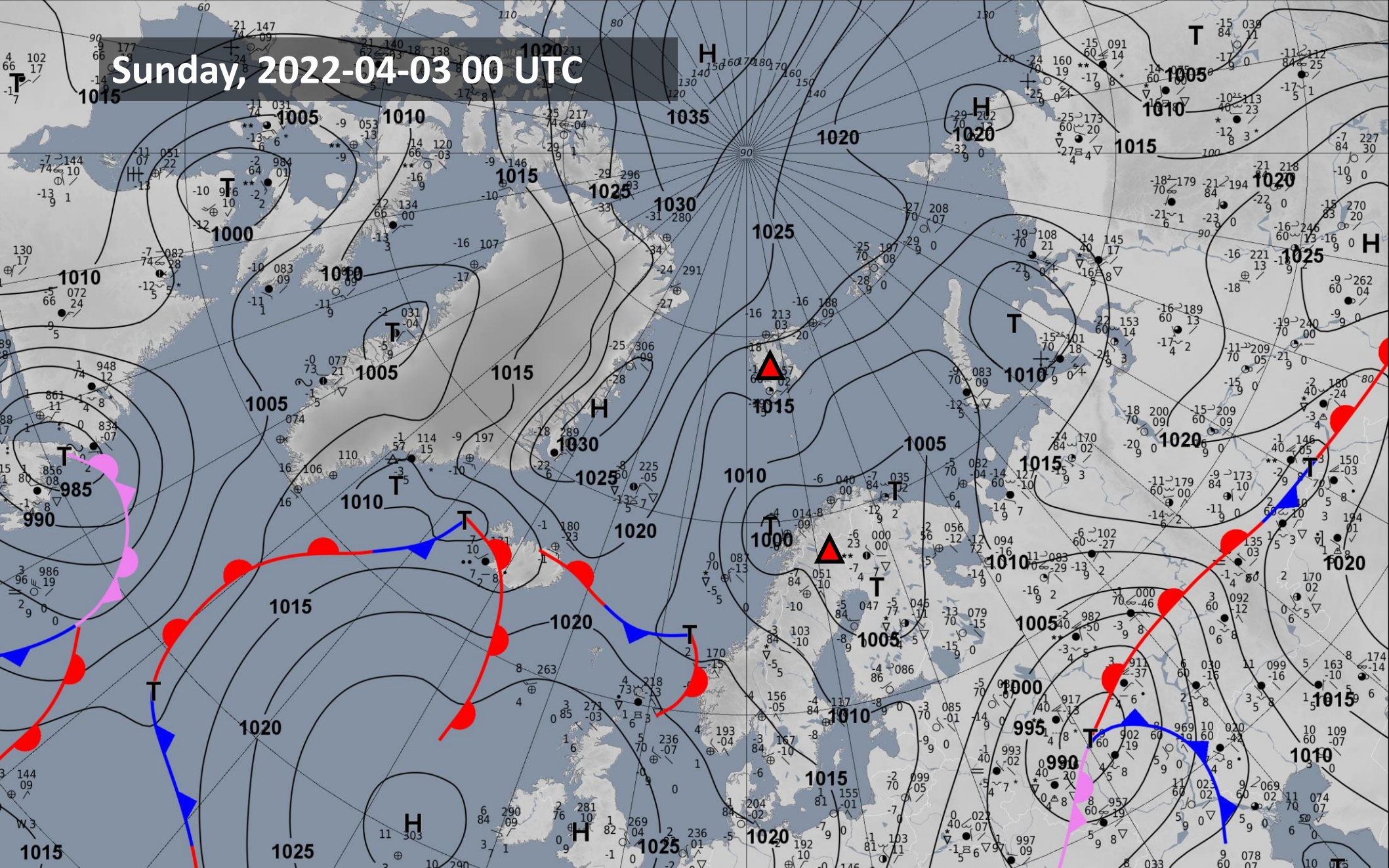
Weather briefing

HALO-(AC)³

Sunday, 2022-04-03, 17:00 LT

Surface Analysis
Sunday, 2022-04-03 12 UTC
DWD

Sunday, 2022-04-03 00 UTC



Surface wind development and precipitation

2022-04-03 00 UTC: 36 – 132h

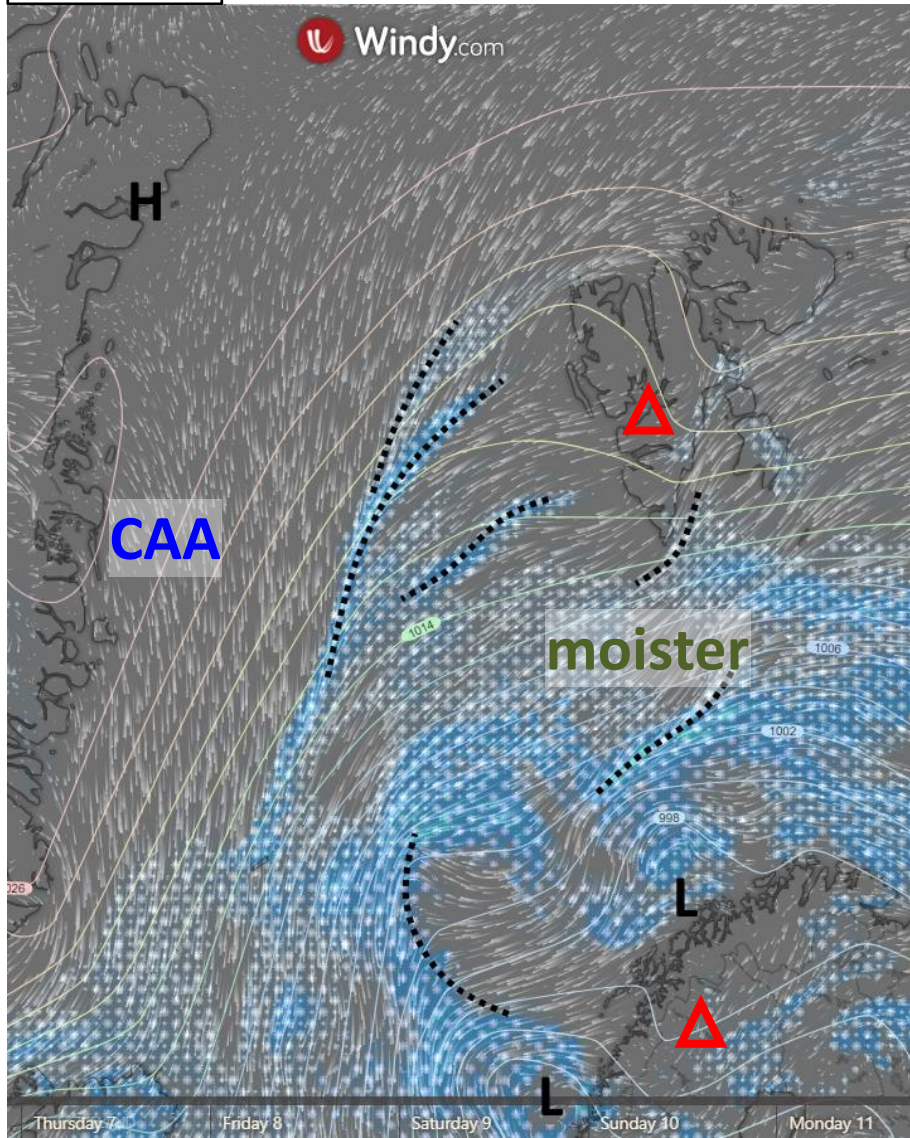
ECMWF & ICON

CAA: Cold Air Advection

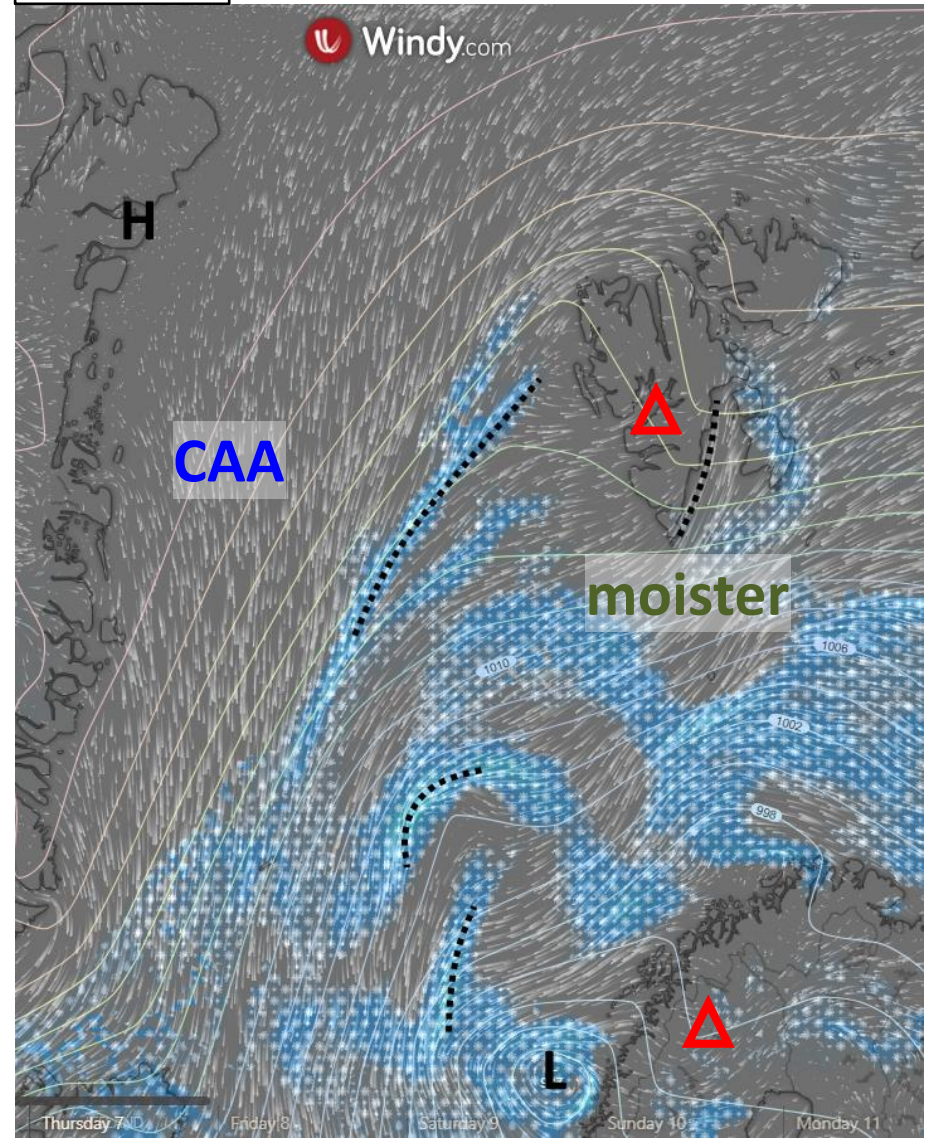
WAA: Warm Air Advection

Monday, 2022-04-04 12 UTC (+36h)

ECMWF

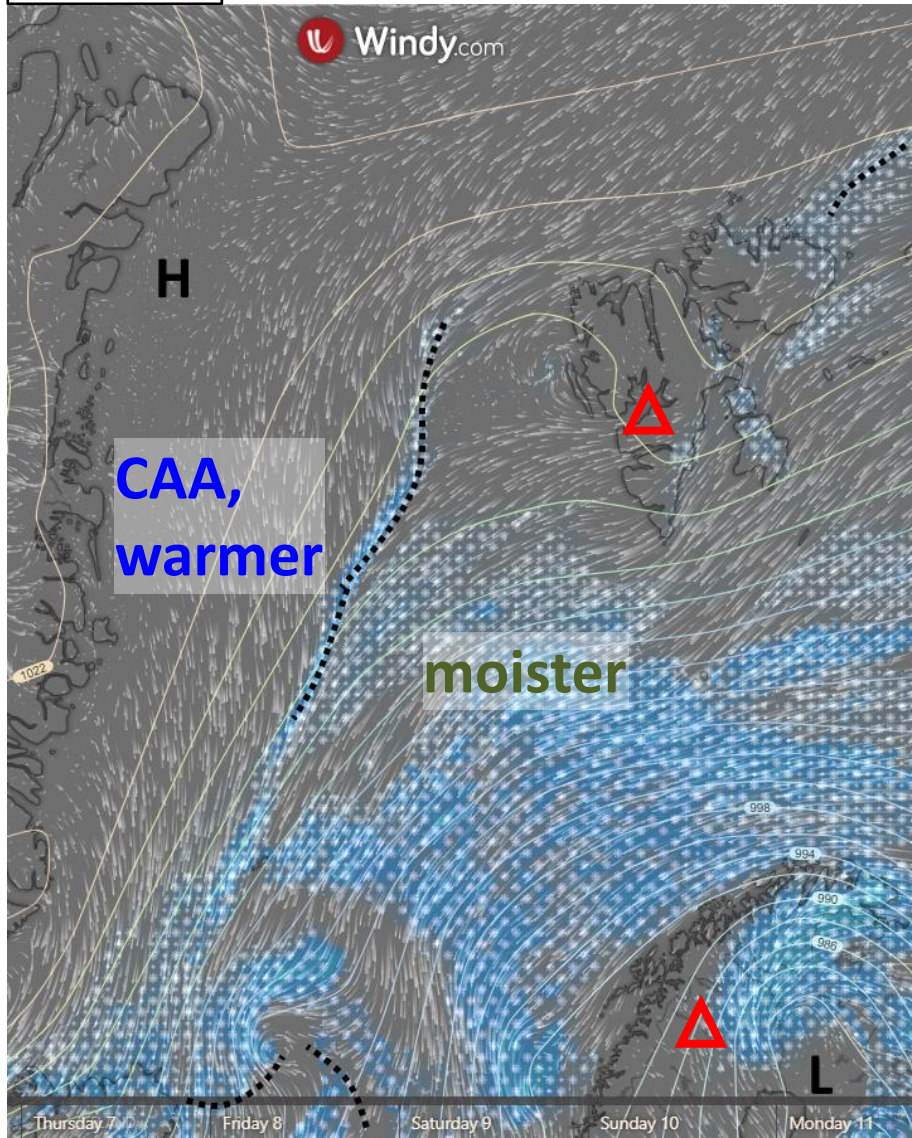


ICON

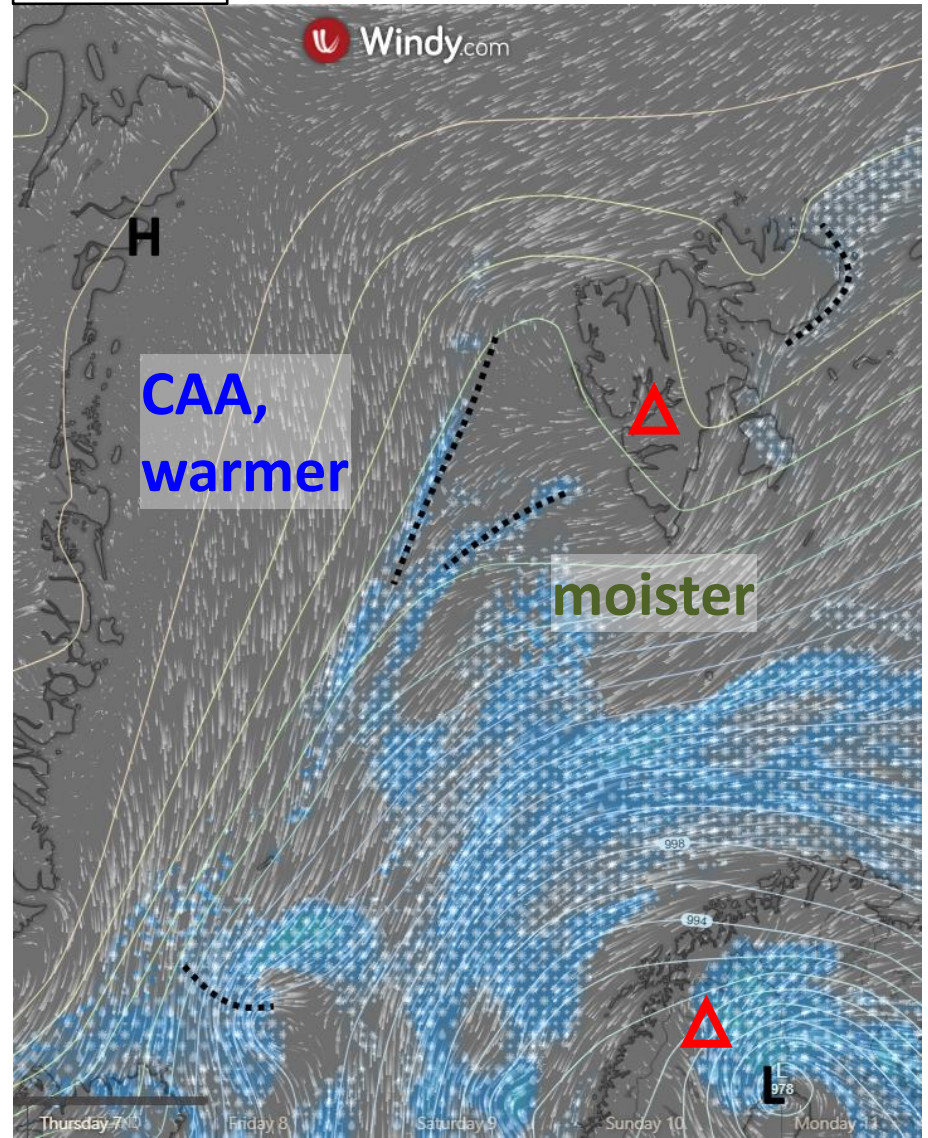


Tuesday, 2022-04-05 12 UTC (+60h)

ECMWF

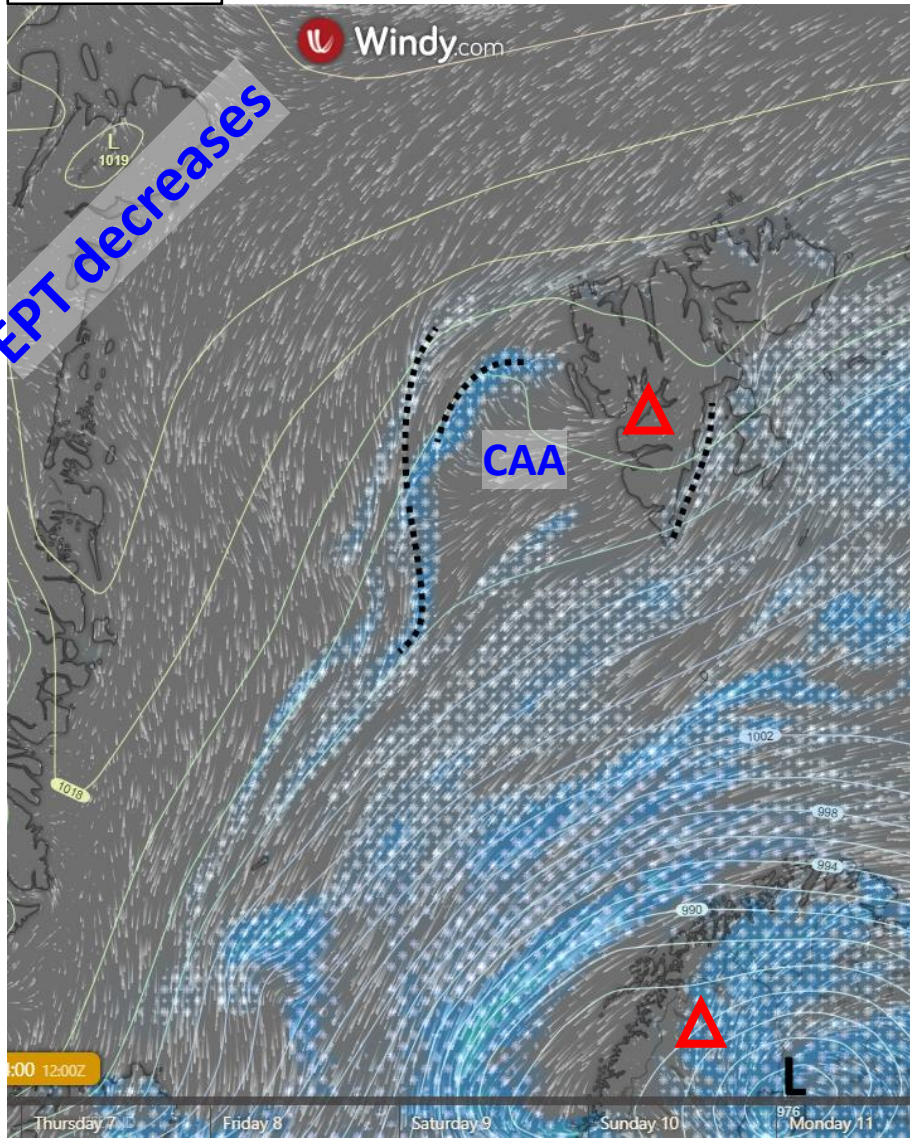


ICON

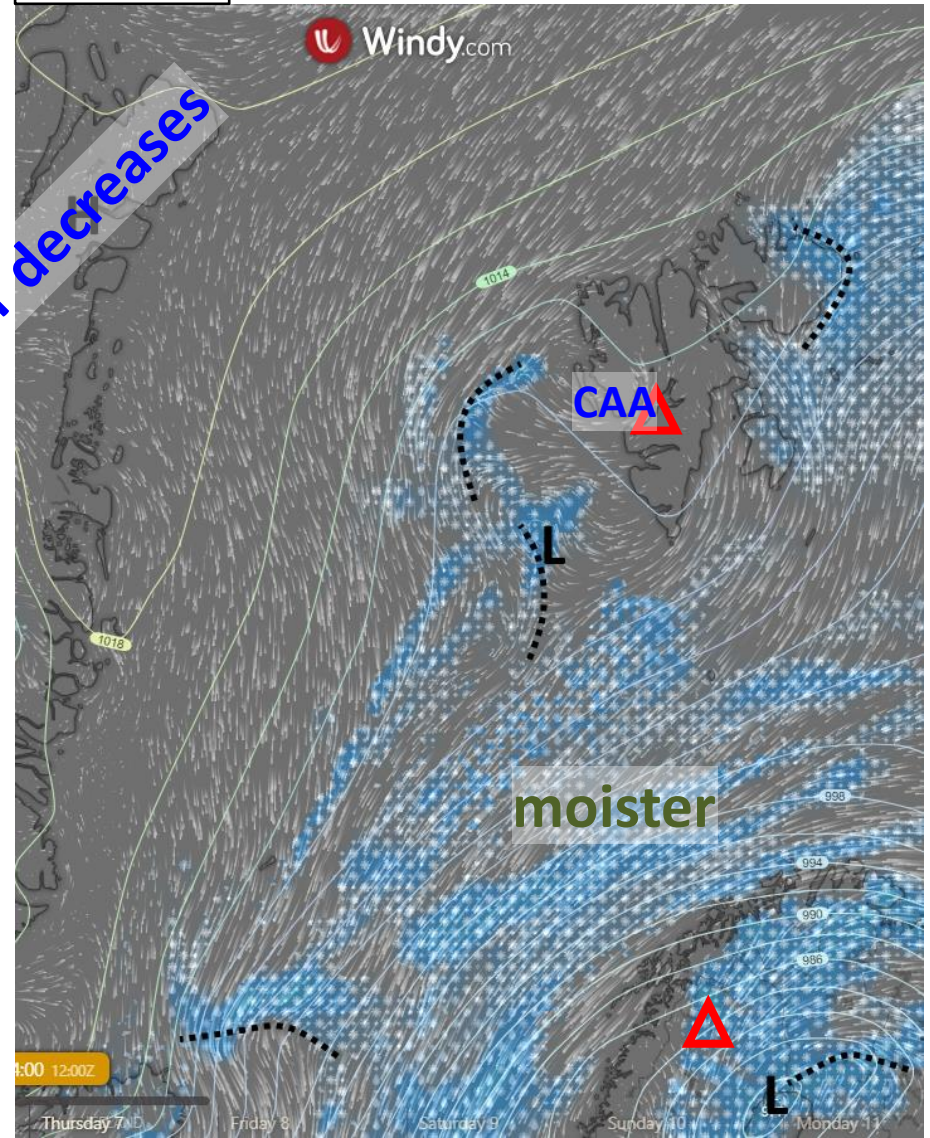


Wednesday, 2022-04-06 12 UTC (+84h)

ECMWF

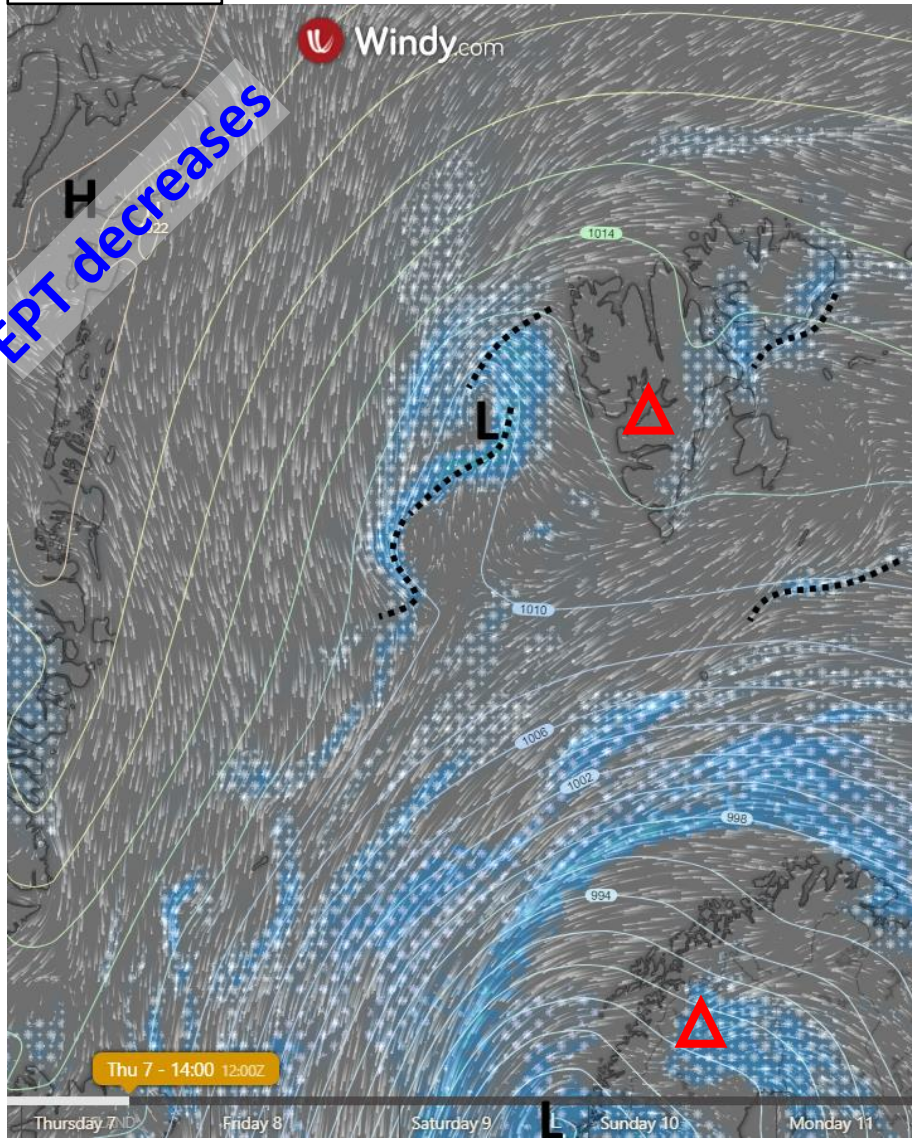


ICON

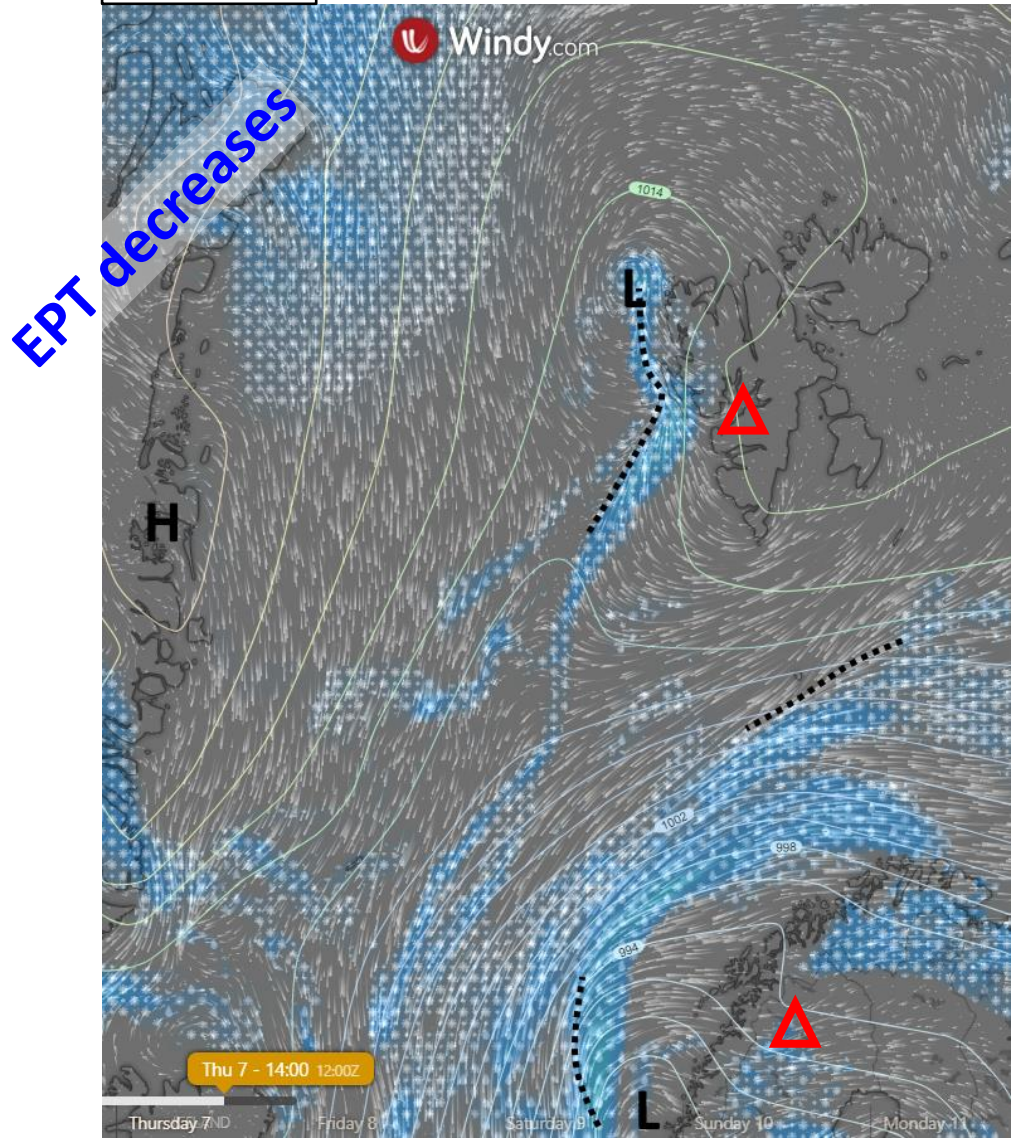


Thursday, 2022-04-07 12 UTC (+108h)

ECMWF

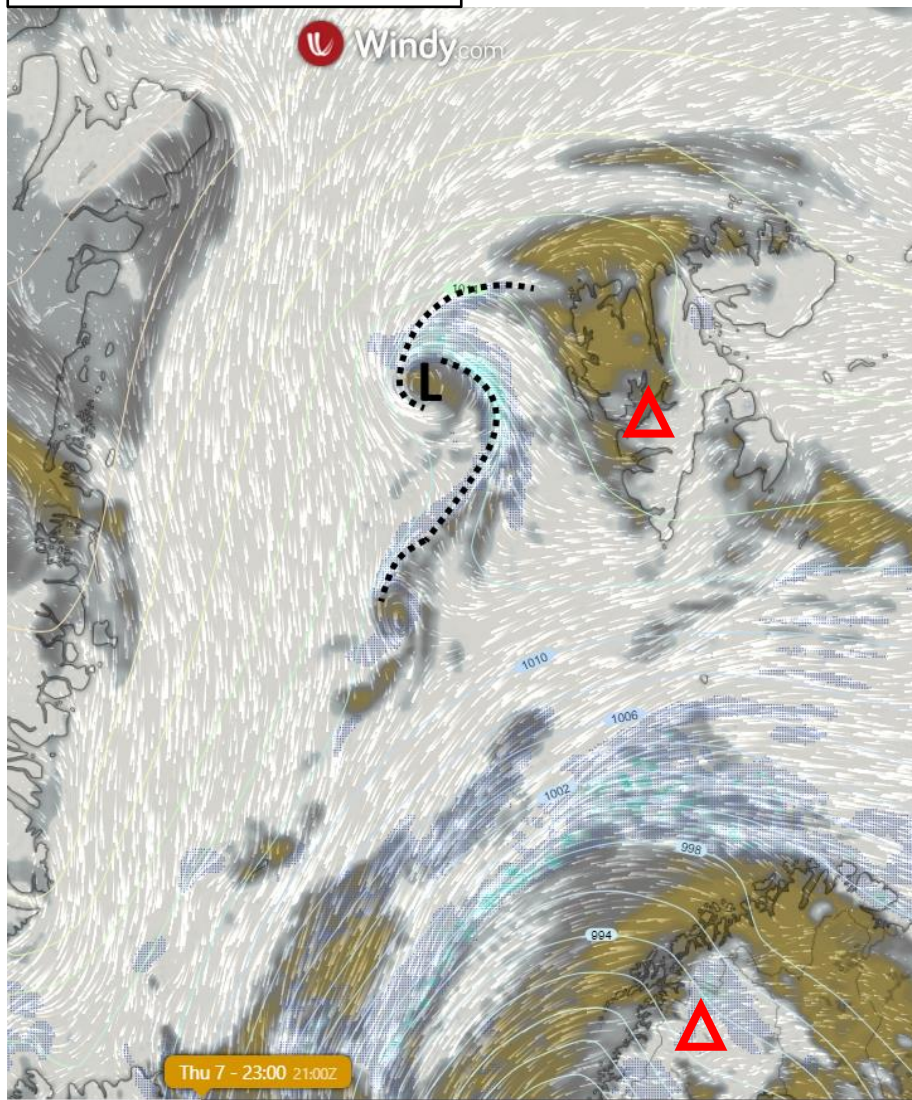


ICON

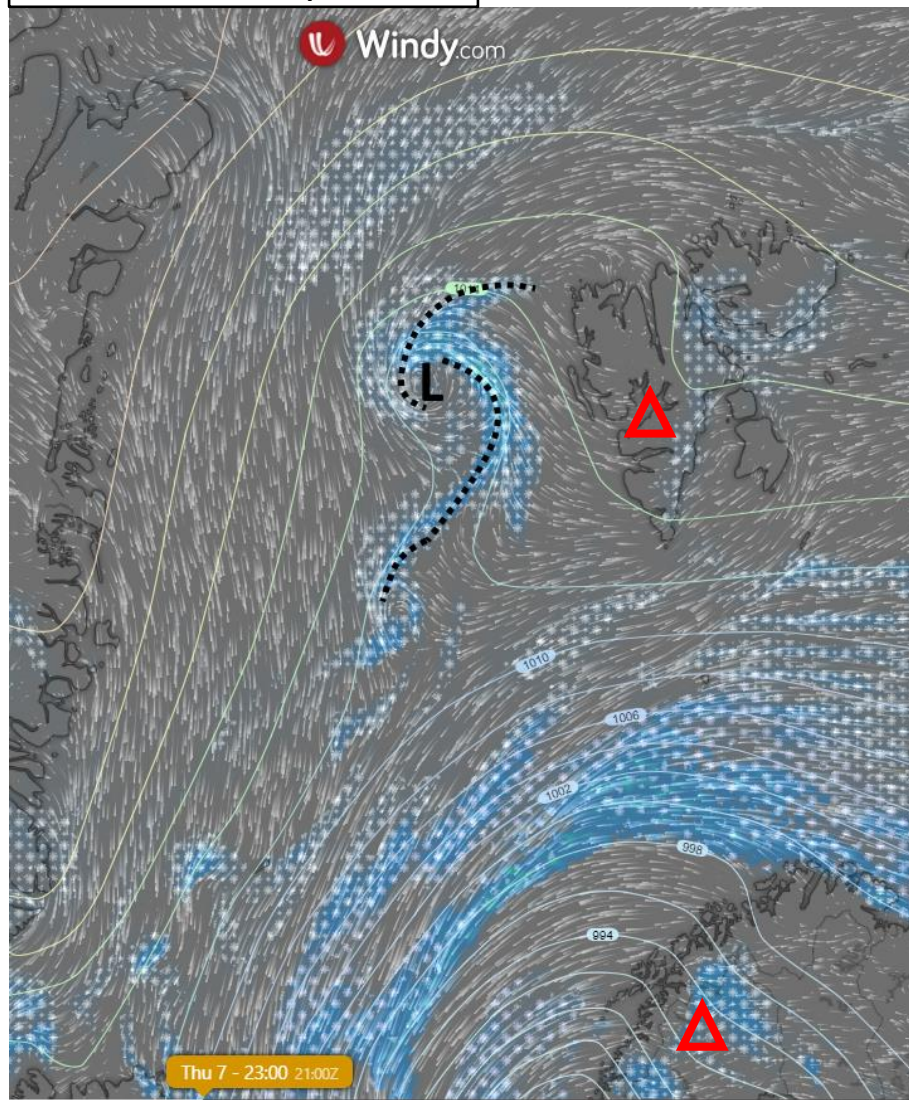


Thursday, 2022-04-07 21 UTC (+117h)

ECMWF: Cloud Cover



ECMWF: Precipitation



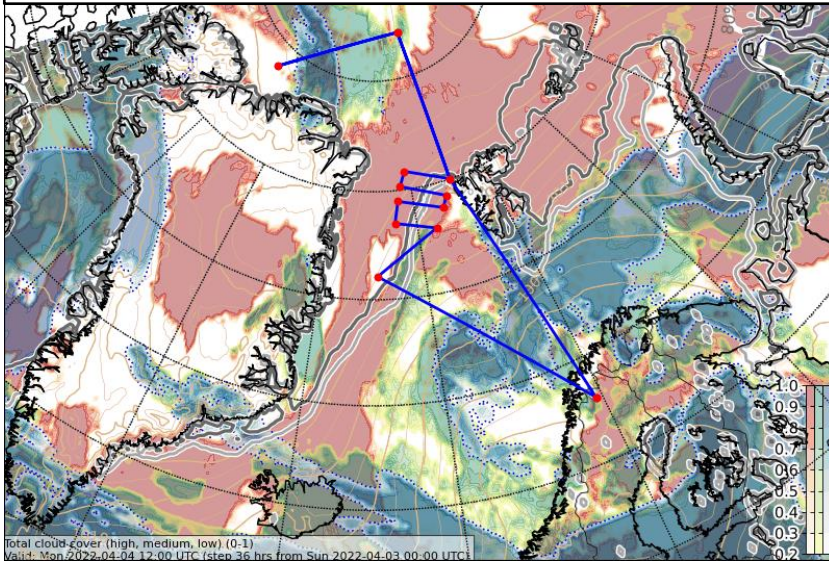
Cloud cover, CAO index, Airmasses, IVT

2022-04-03 00 UTC: 36 – 132h

Cloud cover & 850hPa θ_e & CAO & IVT

Mon, 2022-04-04 12 UTC (+36h)

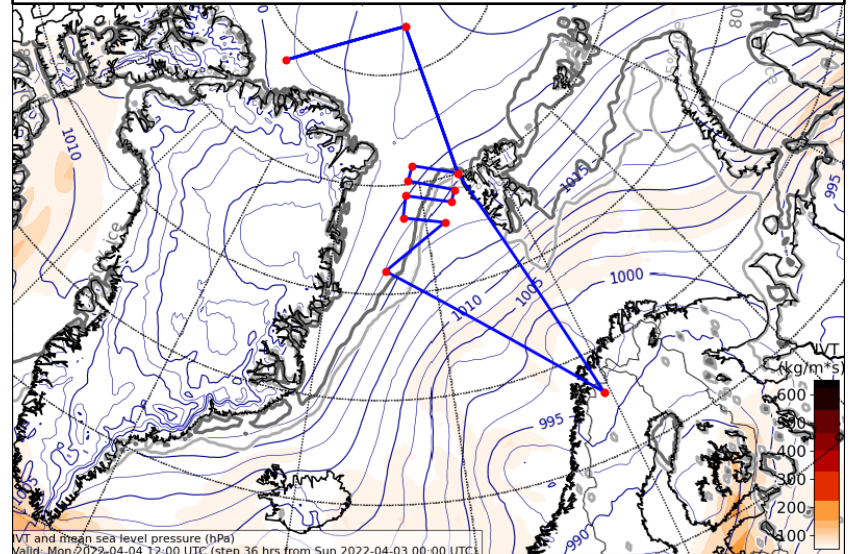
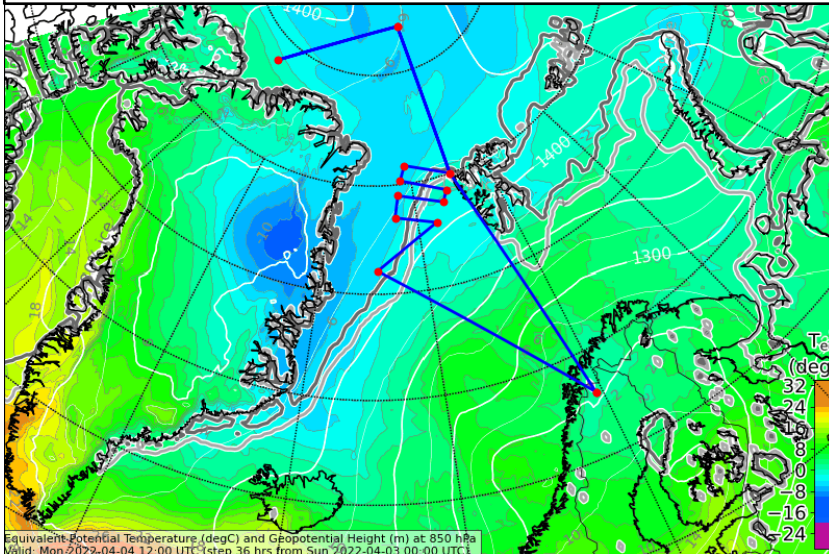
Total cloud cover



CAO Index

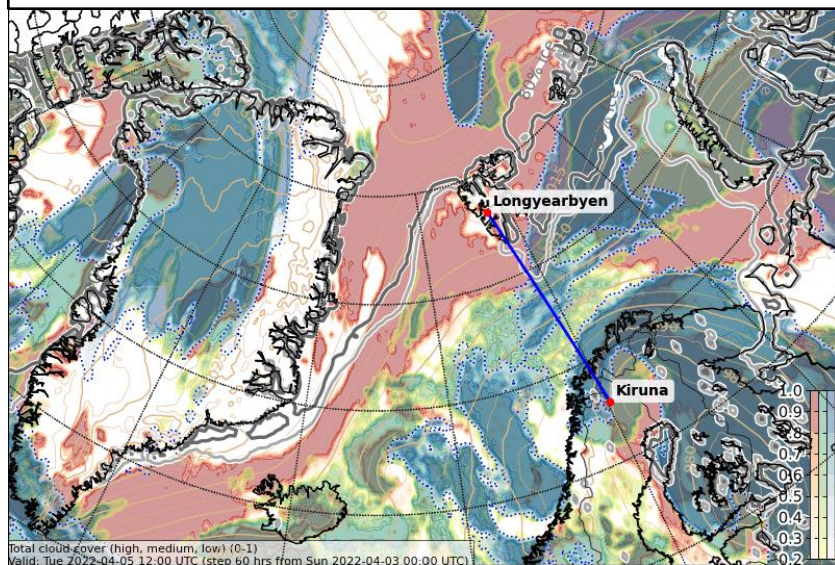
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Tue, 2022-04-05 12 UTC (+60h)

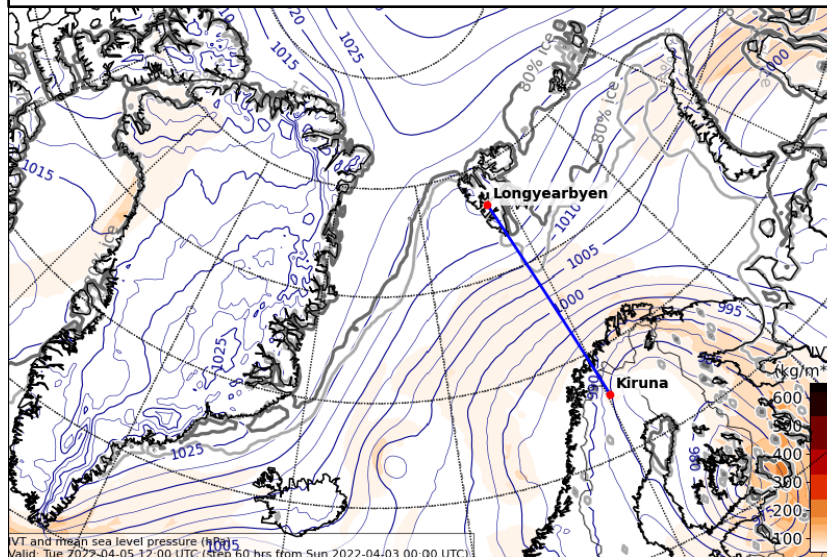
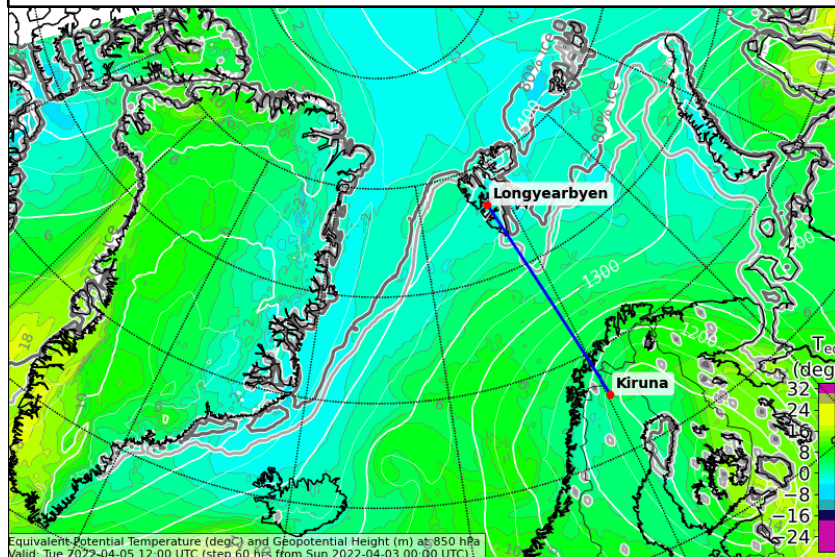
Total cloud cover



CAO Index

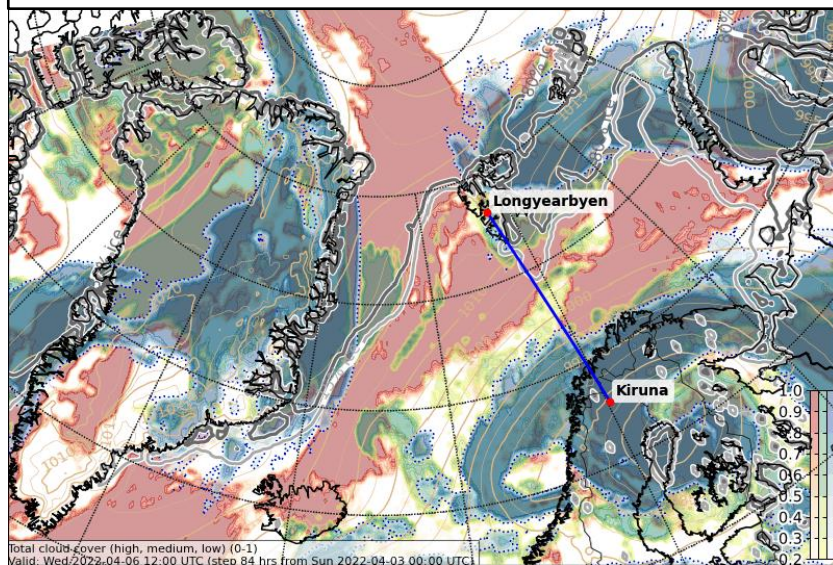
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Wed, 2022-04-06 12 UTC (+84h)

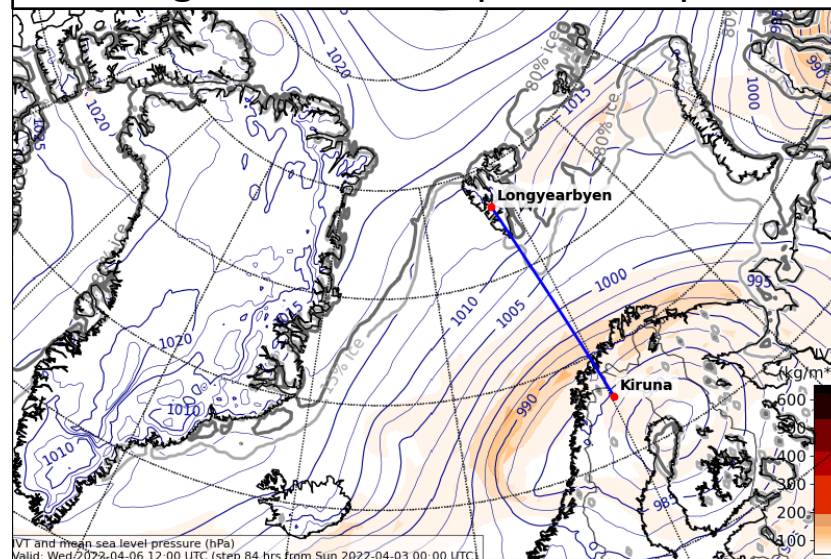
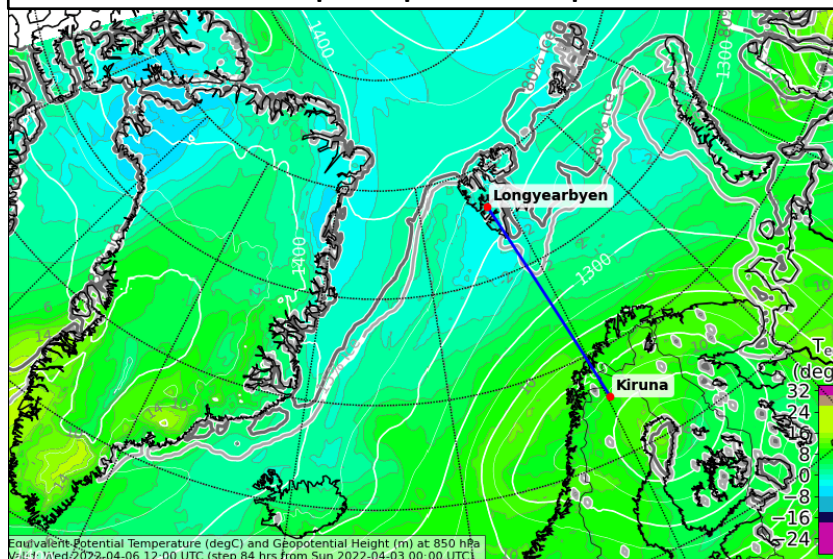
Total cloud cover



CAO Index

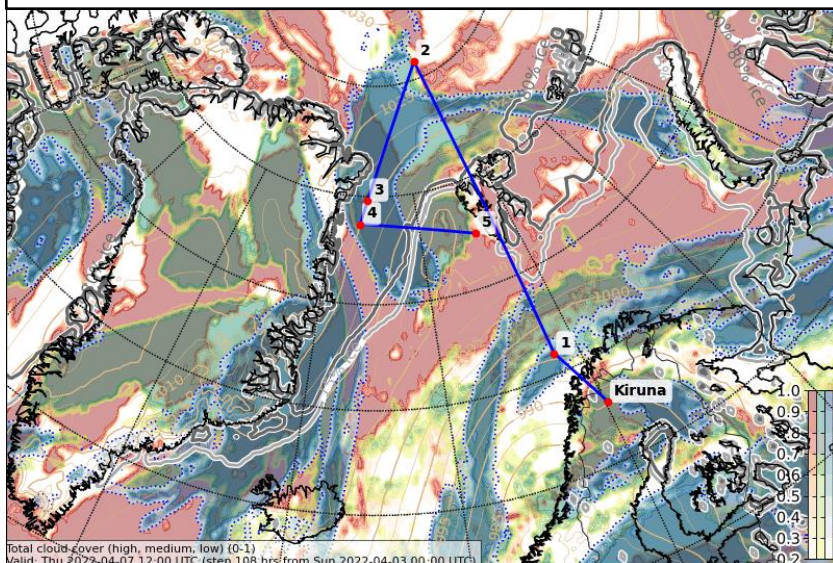
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Thu, 2022-04-07 12 UTC (+108h)

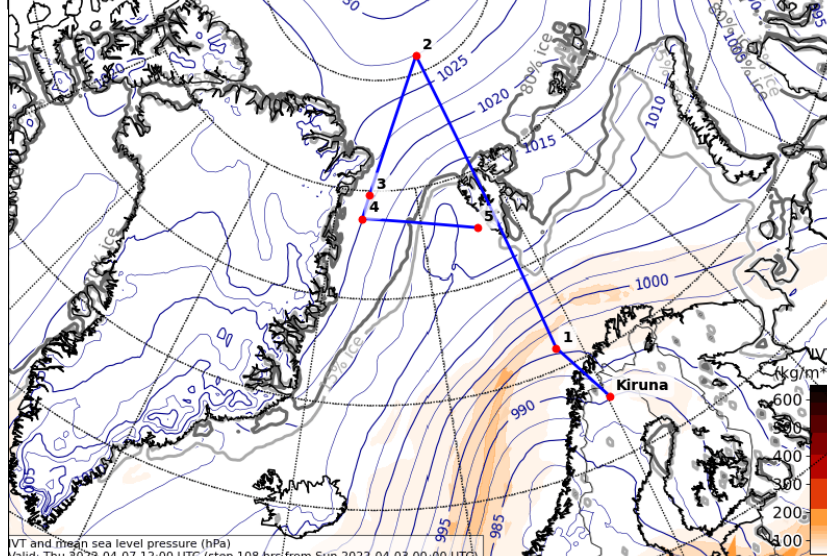
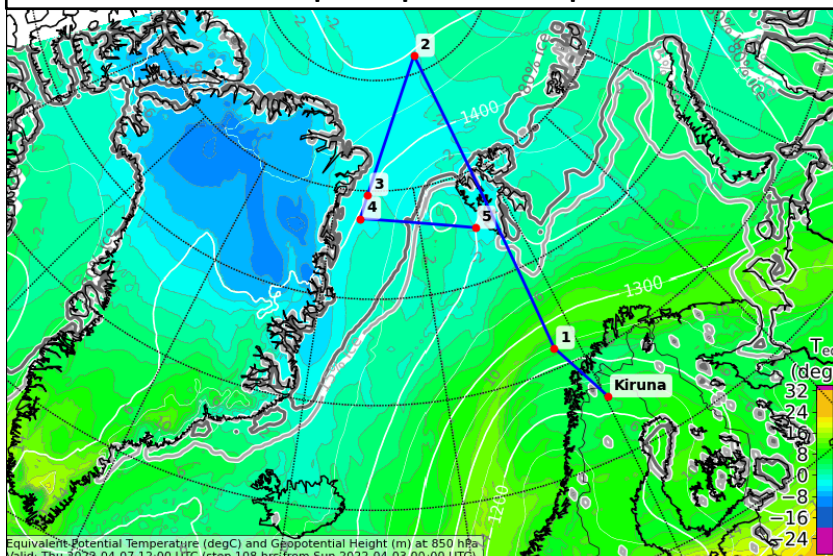
Total cloud cover



CAO Index

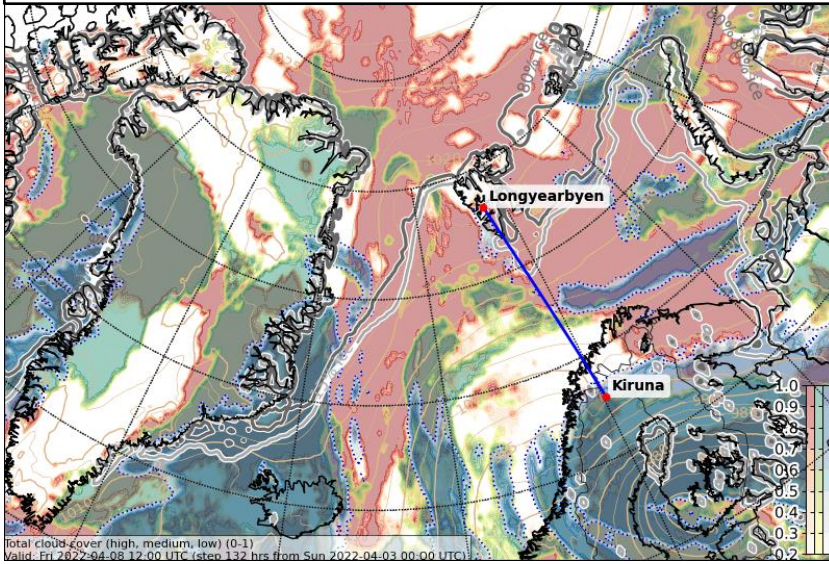
Integrated water vapour transport

850 hPa Equiv. pot. temperature



Fri, 2022-04-08 12 UTC (+132h)

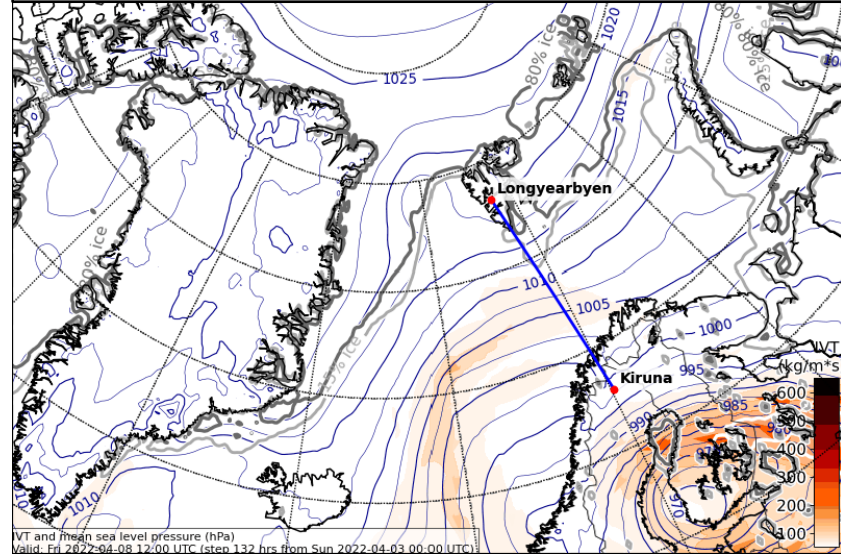
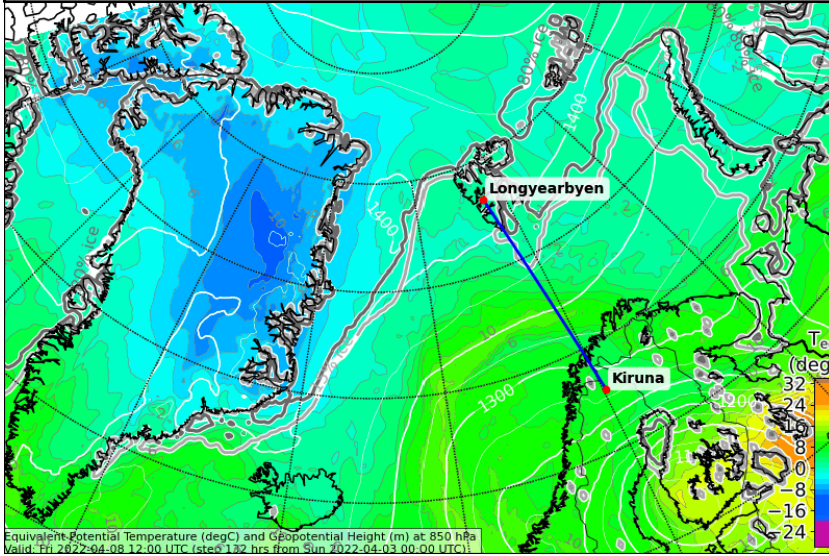
Total cloud cover



CAO Index

Integrated water vapour transport

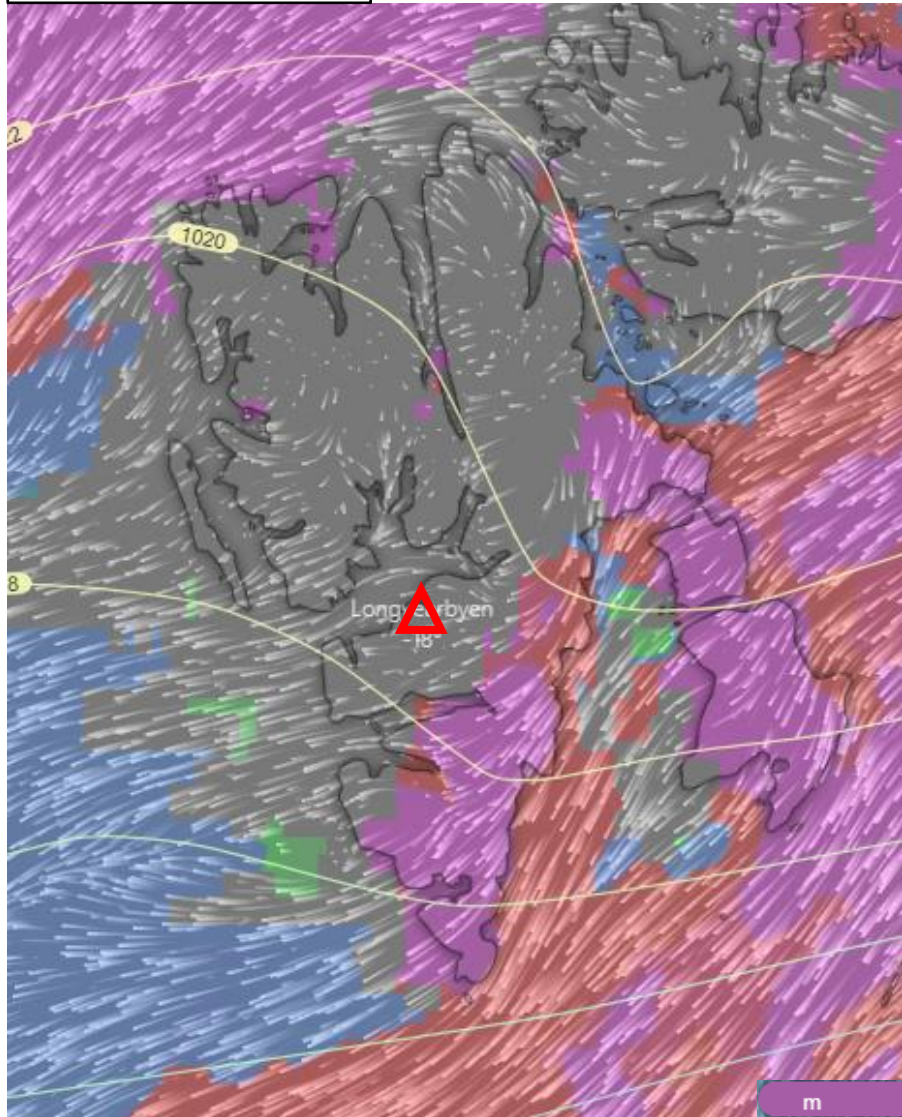
850 hPa Equiv. pot. temperature



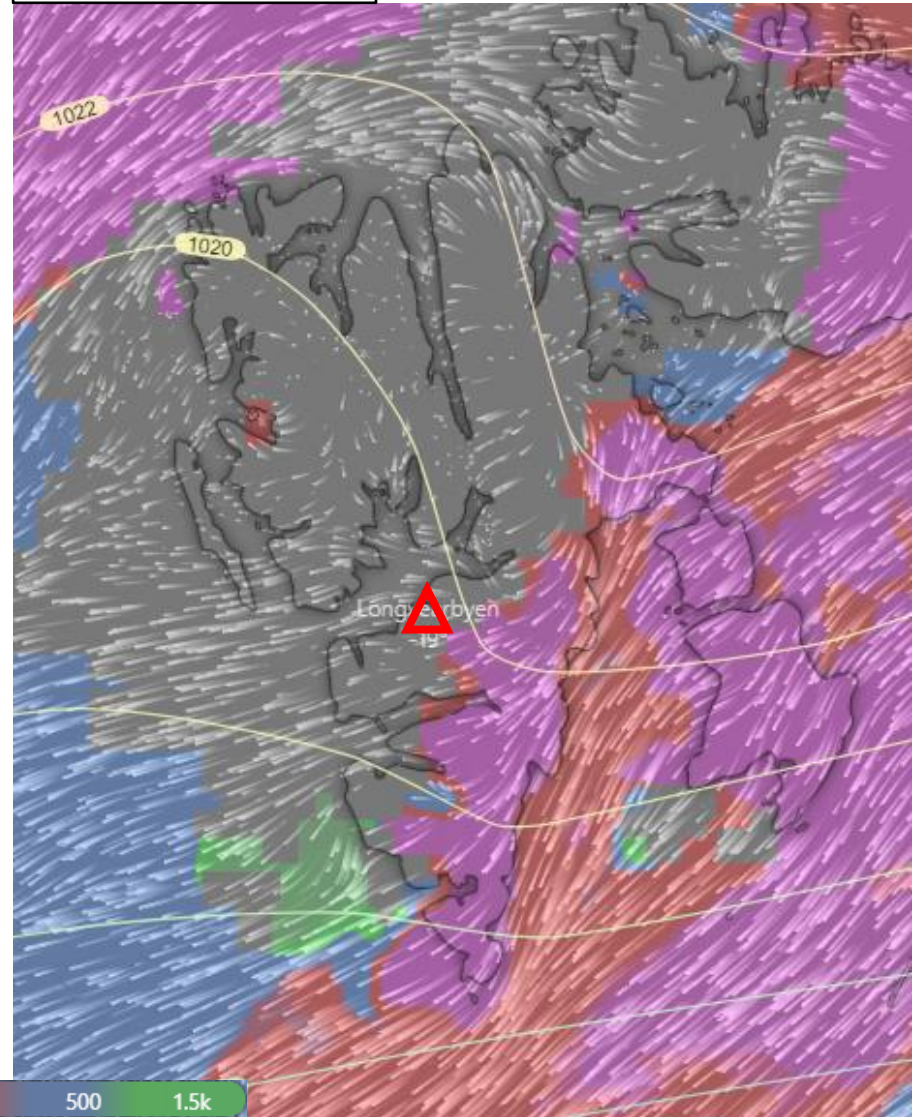
Airport meteograms & local weather at Svalbard

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

09 UTC

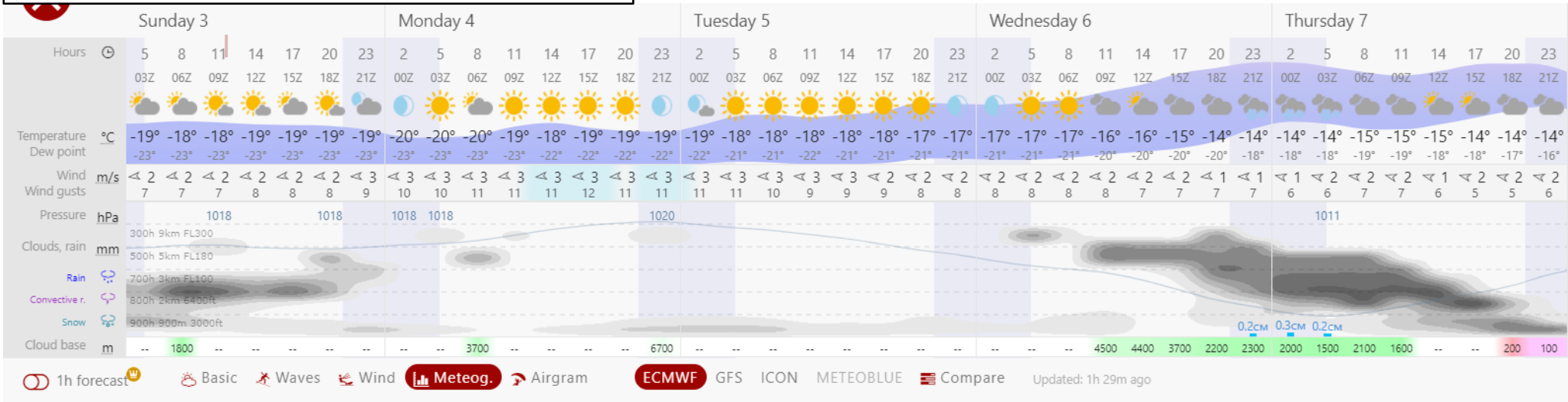


15 UTC

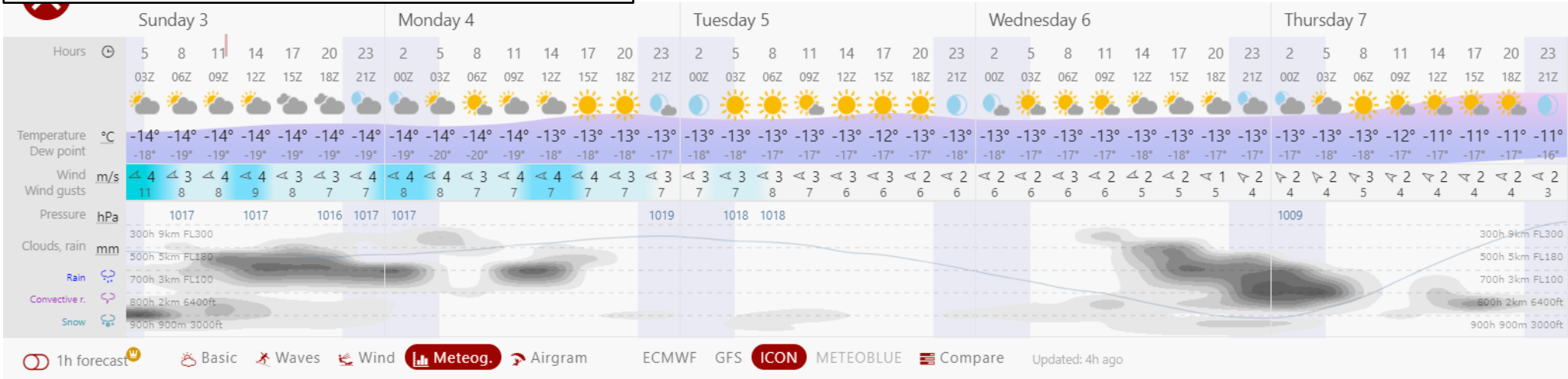


Longyearbyen:

ECWMF

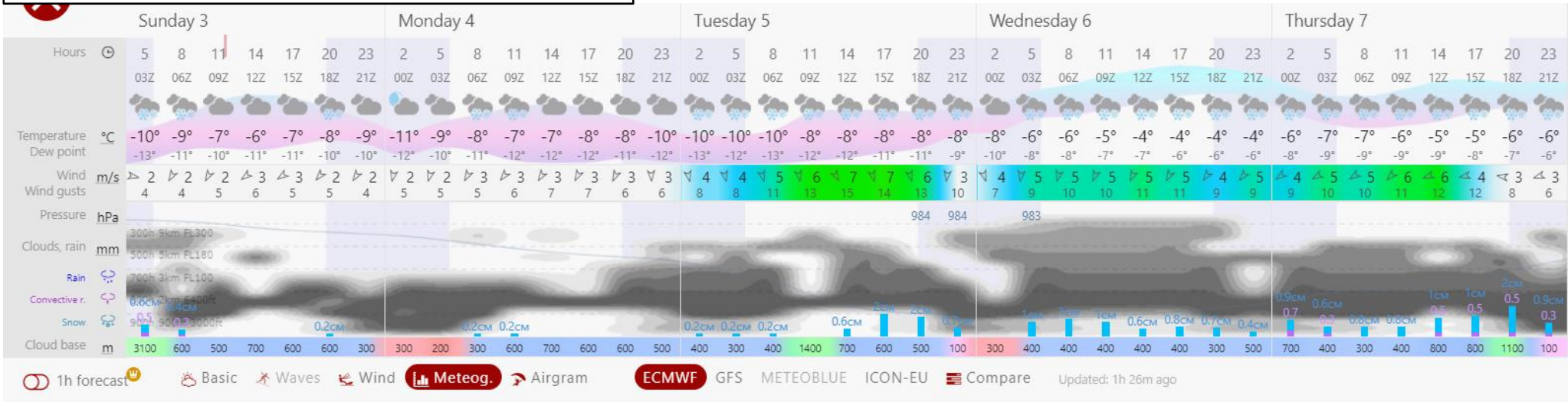


ICON

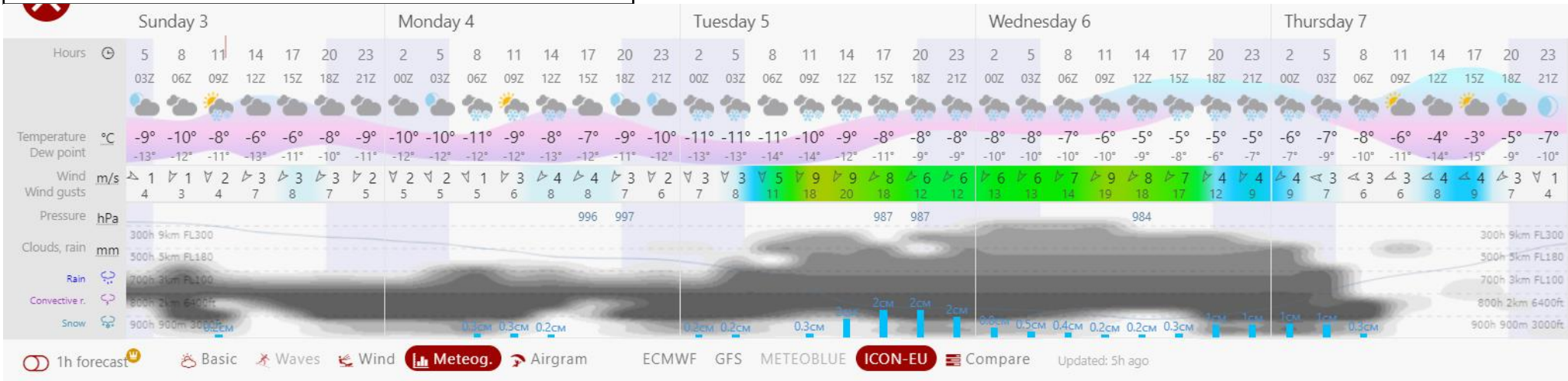


Kiruna:

ECWMF



ICON



Latest METAR and TAF from Longyearbyen airport

Svalbard Airport. Longyear

Longyearbyen, Norway

latitude: 78-15N, longitude: 015-28E,
elevation: 2 m

Current weather observation

The report was made **24** minutes ago, at **11:50**
UTC

Wind **16** kt from the **Southeast**

Temperature **-13°C**

Humidity **56%**

Pressure **1016** hPa

Visibility 10 km or more

Few clouds at a height of **2000** ft

[Change units](#)

Time: 14:14 (12:14 UTC)

Forecast

*Forecast valid from 03 at 12 UTC to 04 at 12
UTC*

Wind **15** kt from the **Southeast**

Visibility 10 km or more

Few clouds at a height of **2500** ft

*Becoming
from 03 at 21 UTC to 03 at 24 UTC*

Wind **25** kt from the **Southeast**

TAF: ENSB 0312/0412 14015KT 9999
FEW025 BECMG 0321/0324 14025KT

Summary

Summary: Weather Briefing 2022-04-03, 17:00 LT

- **Monday, 2022-04-04:**
 - Convergence splitting cold and dry from moister air
 - Easterly flow in eastern Fram Strait and south of Svalbard
 - Northerly flow in western Fram Strait
- **Tuesday, 2022-04-05:**
 - Temperature in Fram Strait increases
 - Convergence line fades
 - Moist air with precip. between Norway and Svalbard
 - Strong snowfall expected for Kiruna
- **Wednesday, 2022-04-06:**
 - Greenland airmass development: Strong cooling and drying
- **Thursday, 2022-04-07:**
 - Chance for Polar Low (but uncertain)
 - Weak T gradients in Fram Strait
- **Friday, 2022-04-08:**
 - Eastern Fram Strait warmer than Western
 - Polar Low fades
 - Mixed flow and convergence line in Fram Strait