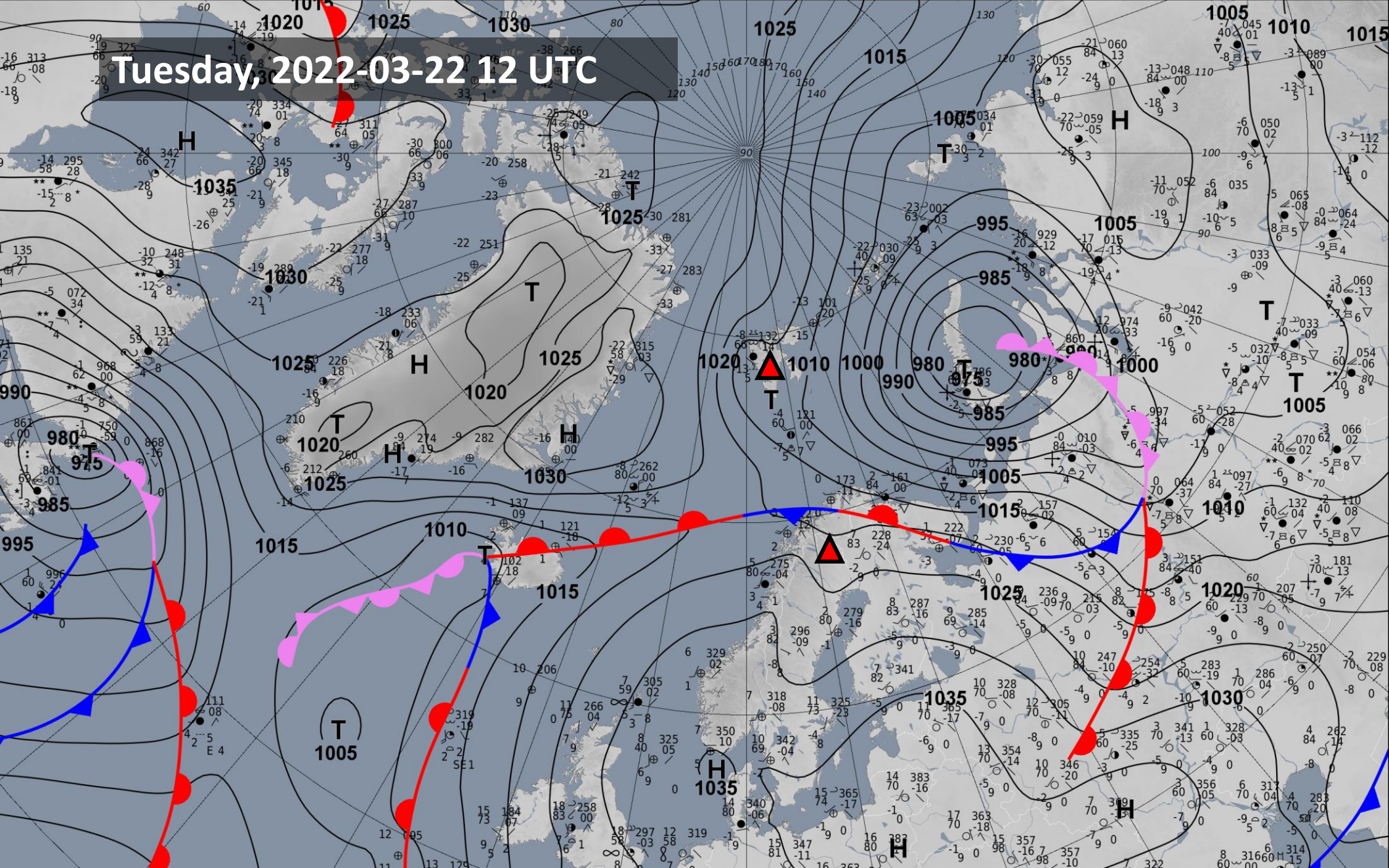


Weather briefing HALO-(AC)³

Tuesday, 2022-03-22, 17:00 LT

Surface Analysis
Tuesday, 2022-03-22 12 UTC
DWD

Tuesday, 2022-03-22 12 UTC



Surface wind development and precipitation

2022-03-22 00 UTC: 36 – 108h

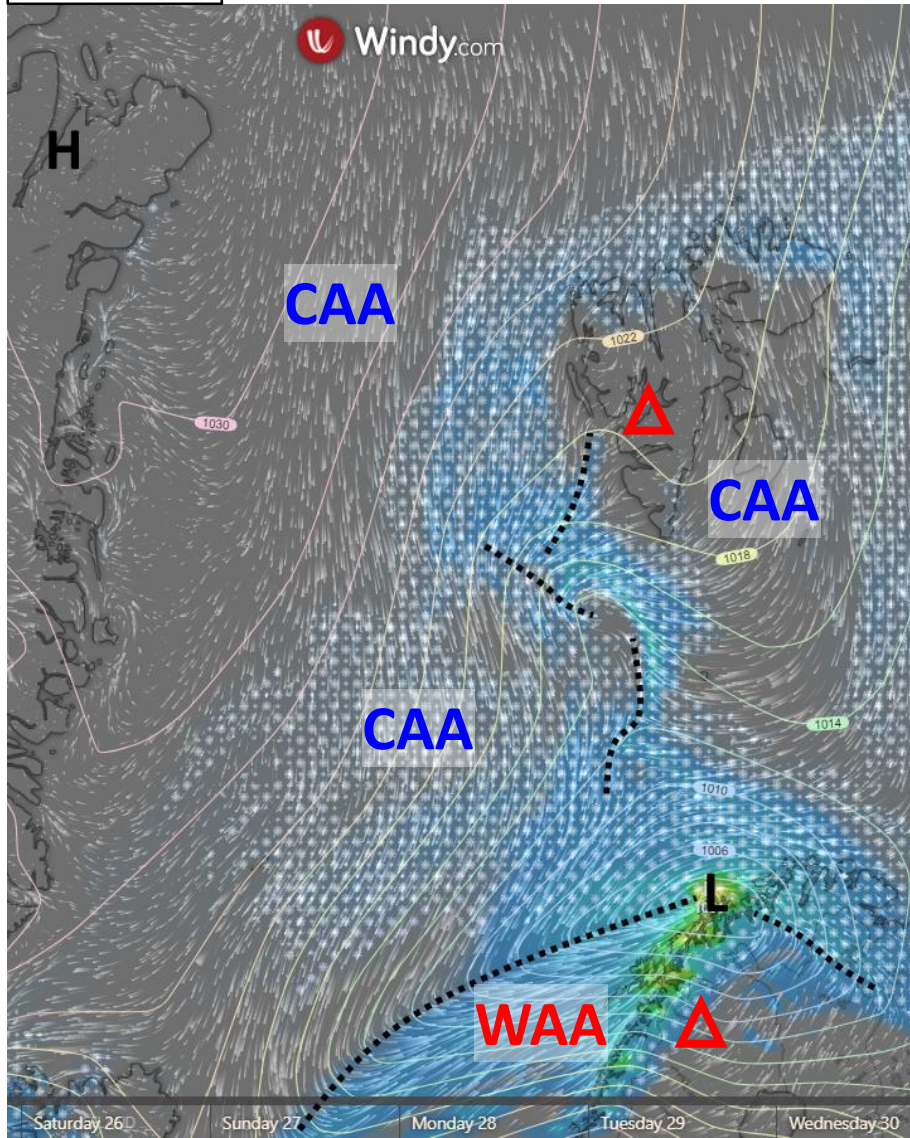
ECMWF & ICON

CAA: Cold Air Advection

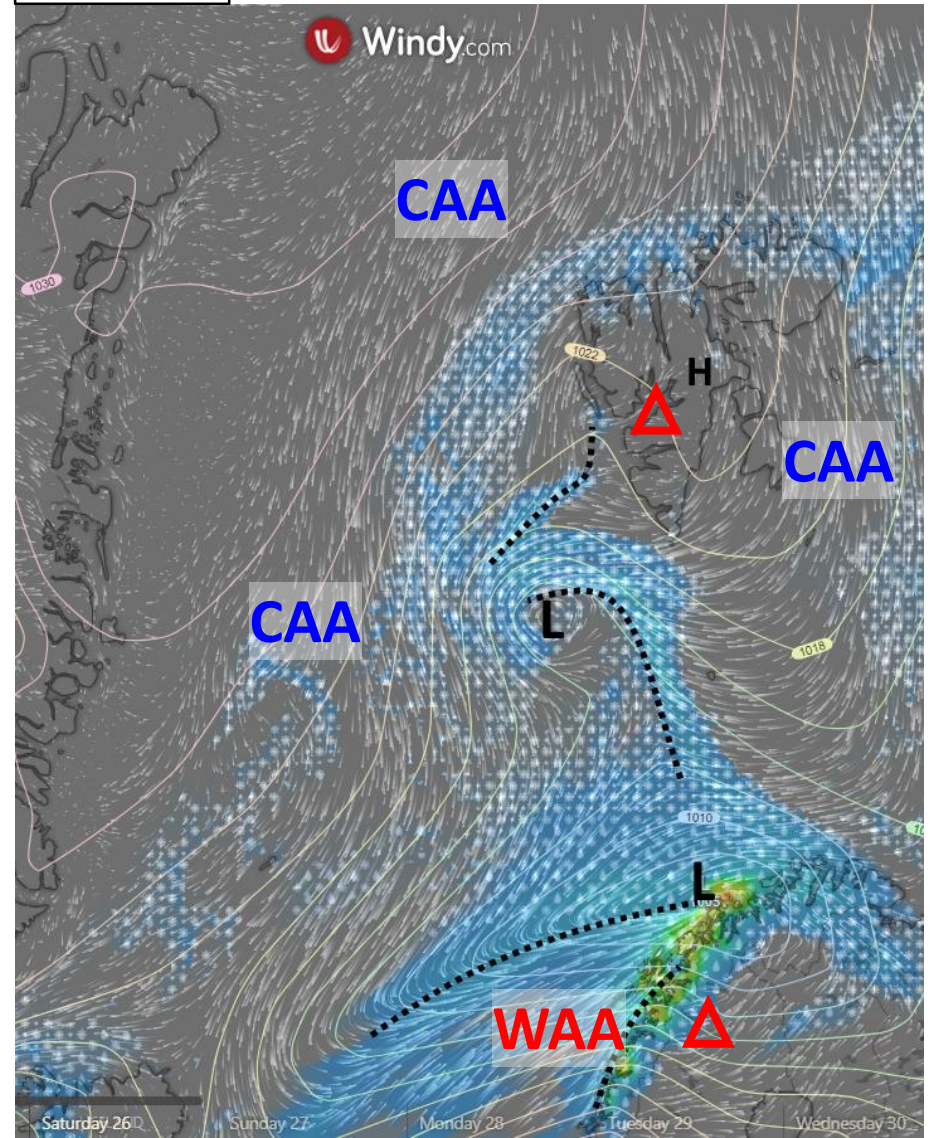
WAA: Warm Air Advection

Wednesday, 2022-03-23 12 UTC (+36h)

ECMWF

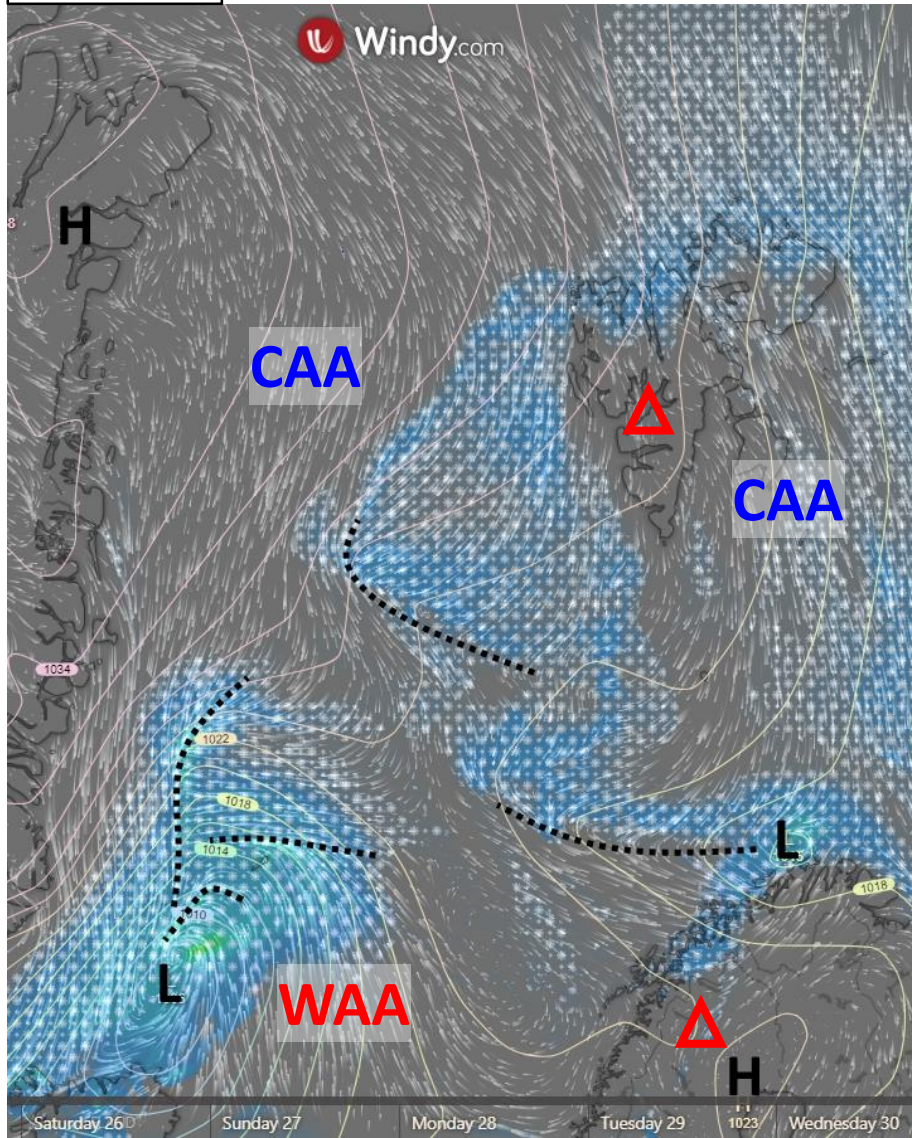


ICON

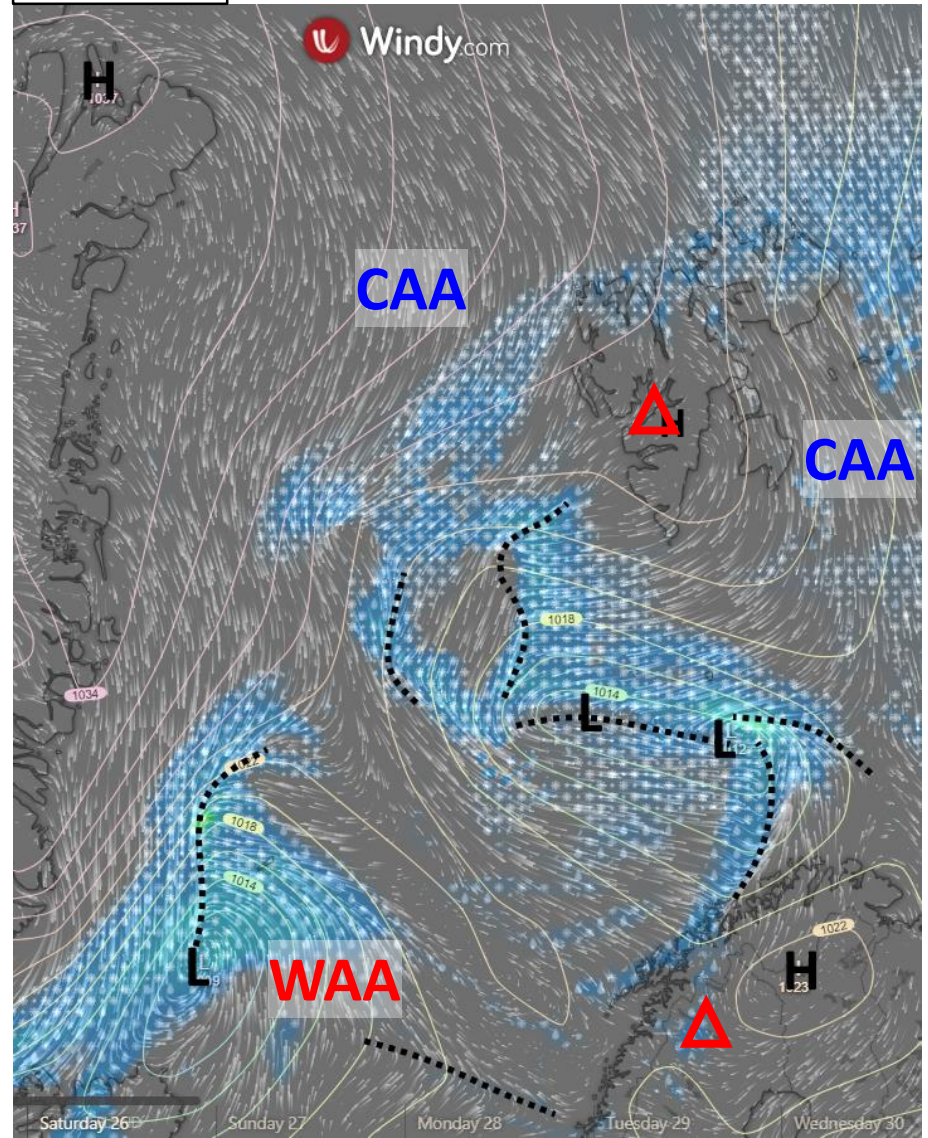


Thursday, 2022-03-24 12 UTC (+60h)

ECMWF

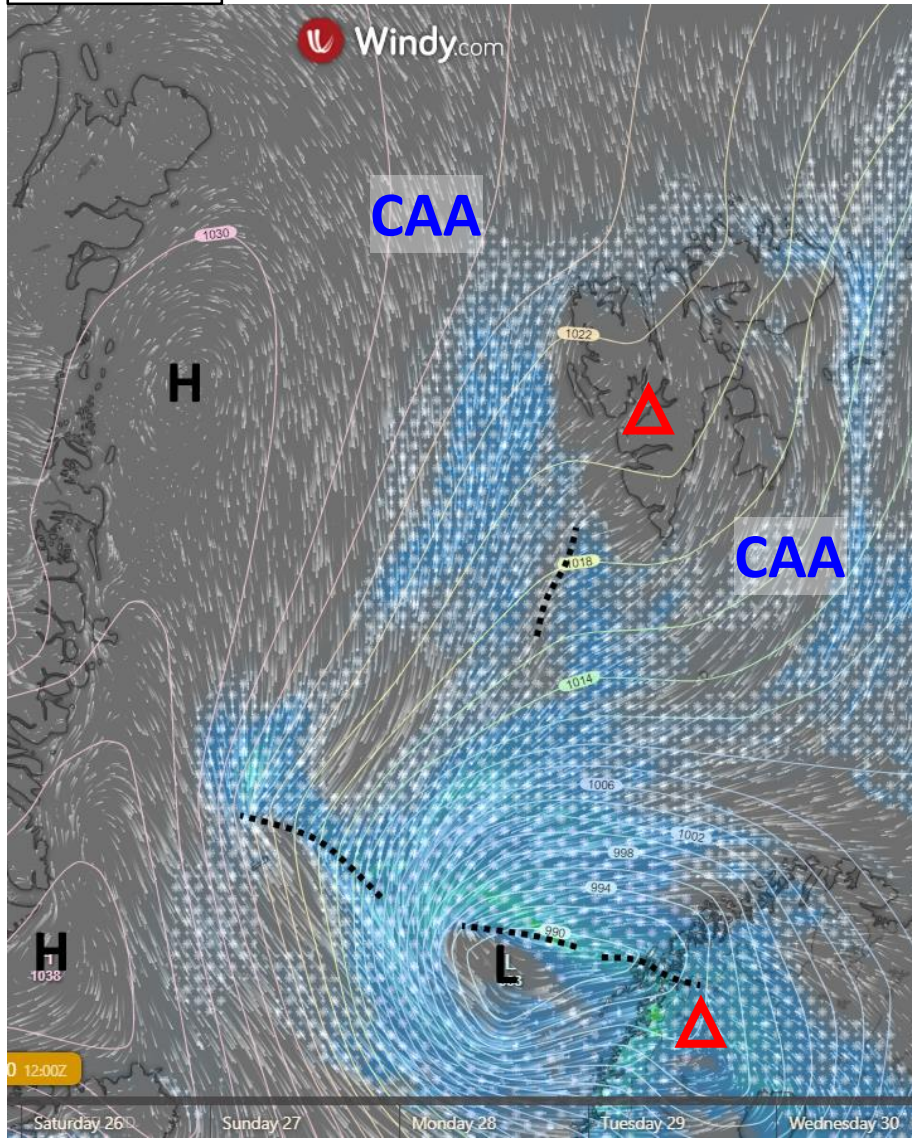


ICON

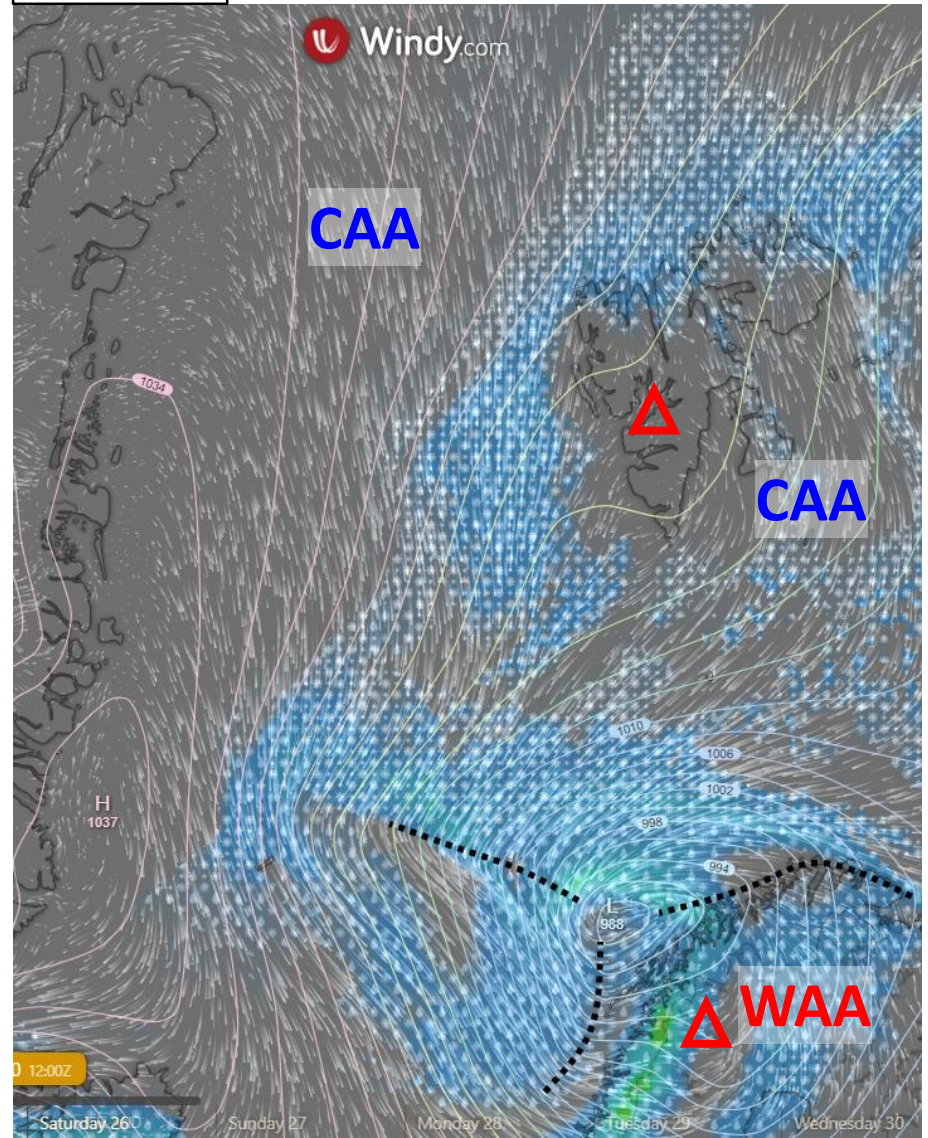


Friday, 2022-03-25 12 UTC (+84h)

ECMWF

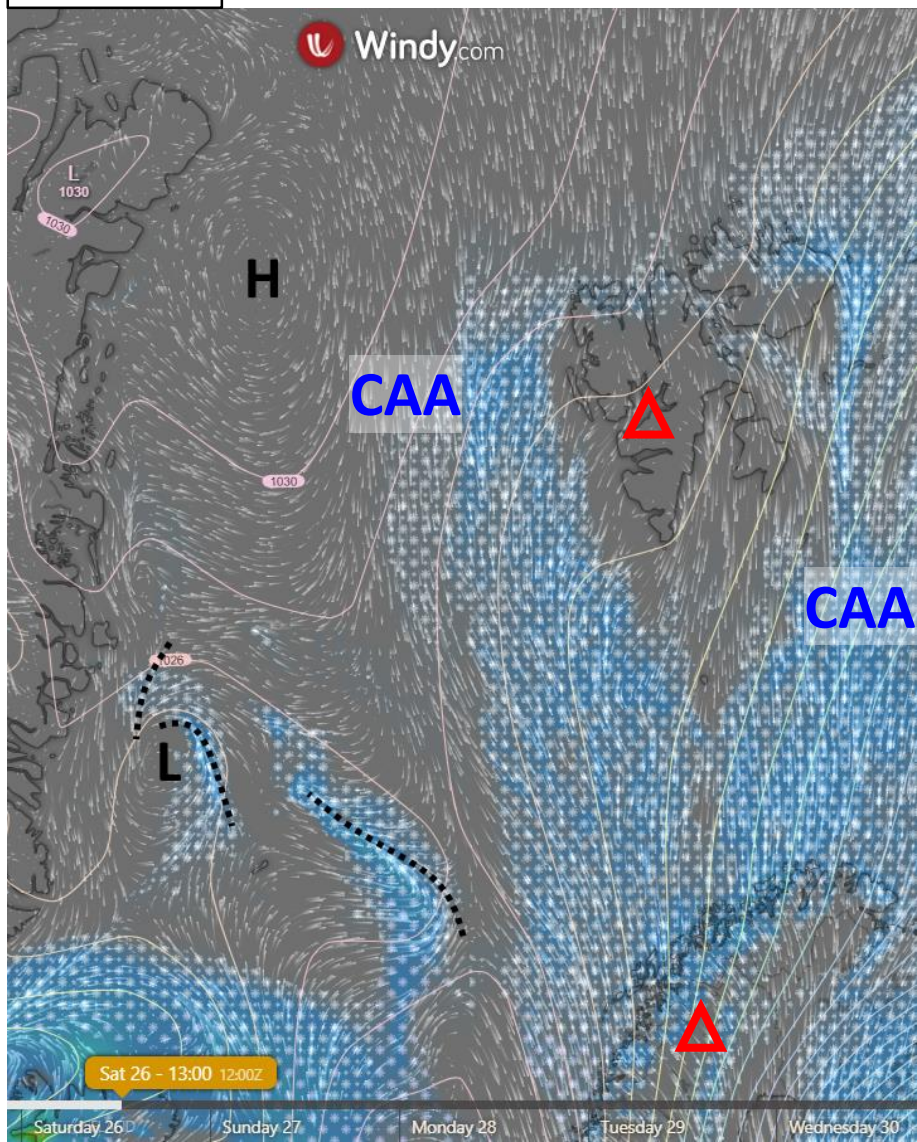


ICON

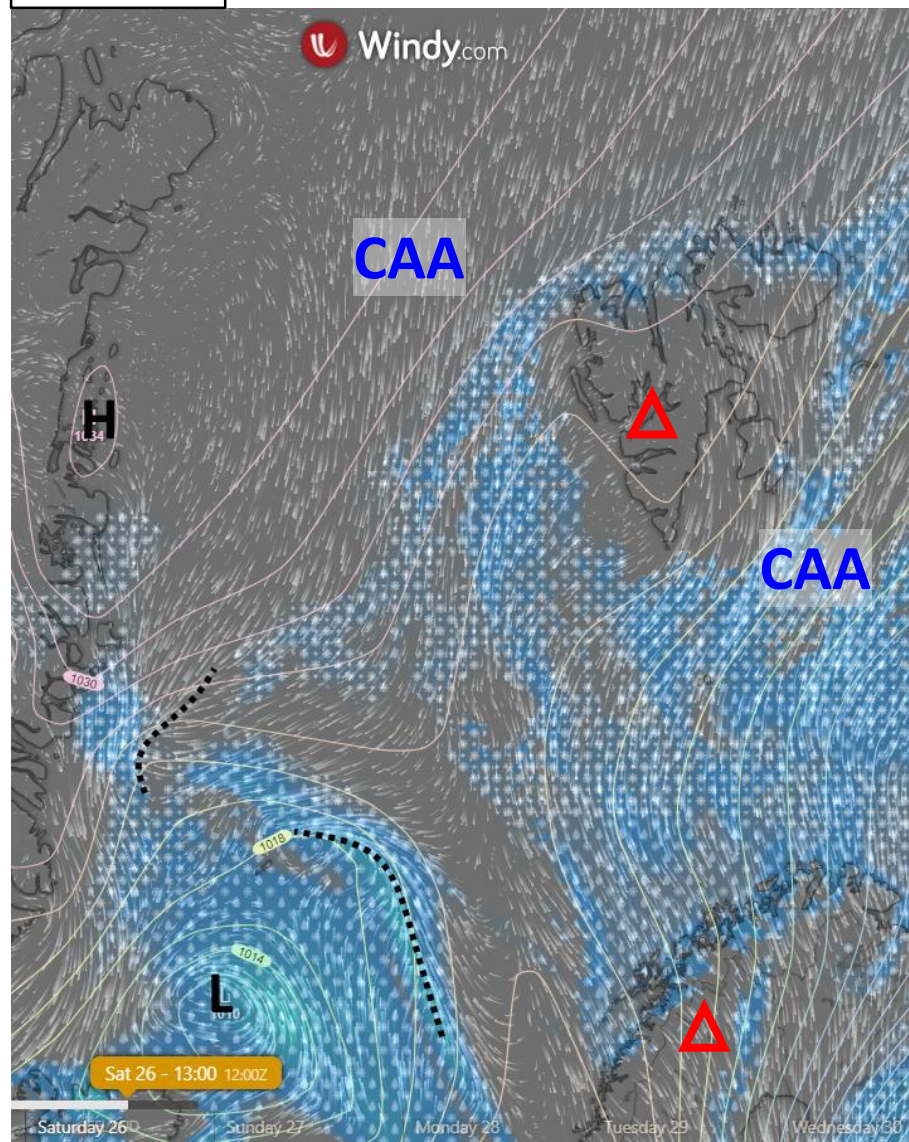


Saturday, 2022-03-26 12 UTC (+108h)

ECMWF



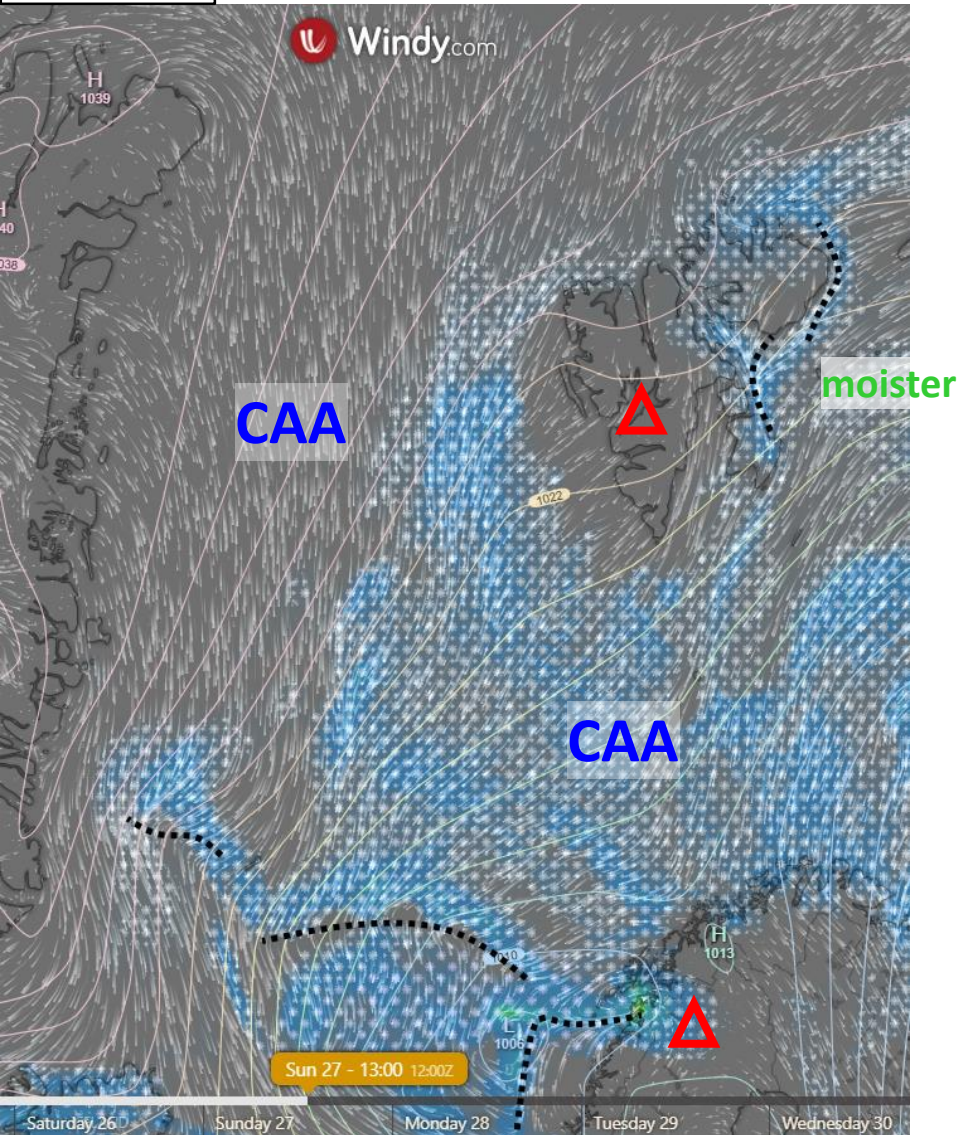
ICON



Sunday, 2022-03-27 12 UTC (+132h)

ECMWF

ICON



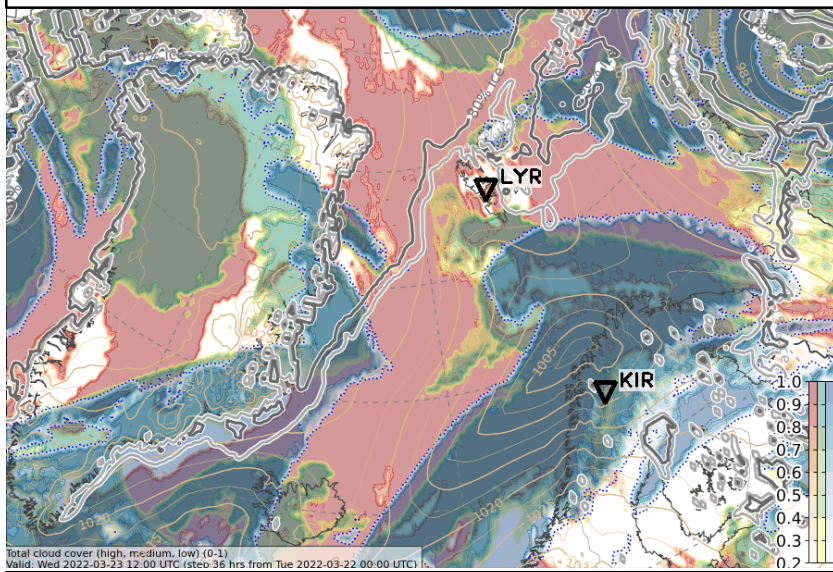
Cloud cover, CAO index, Airmasses, IVT

2022-03-22 00 UTC: 36 – 108h

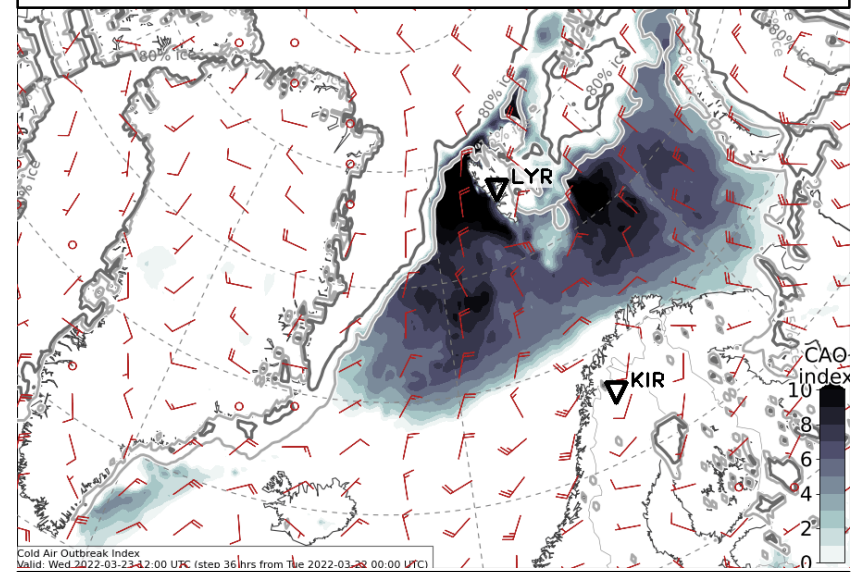
Cloud cover & 850hPa θ_e & CAO & IVT

Wed, 2022-03-23 12 UTC (+36h)

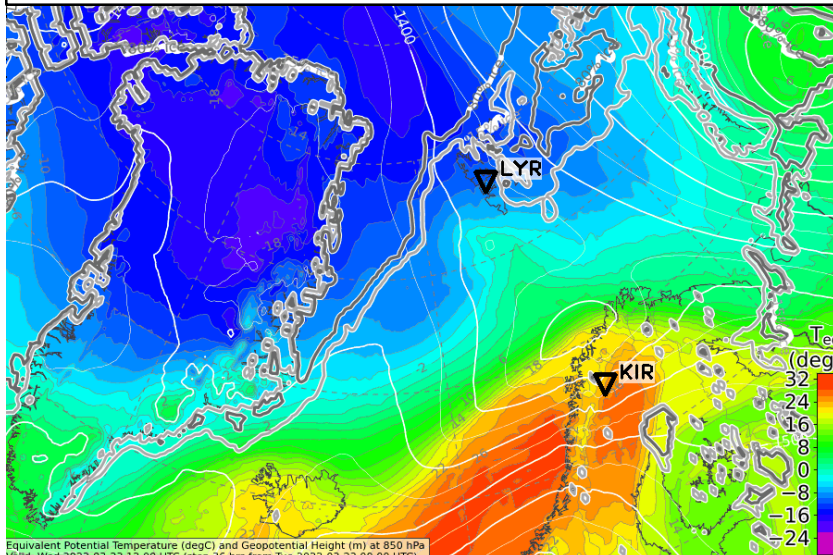
Total cloud cover



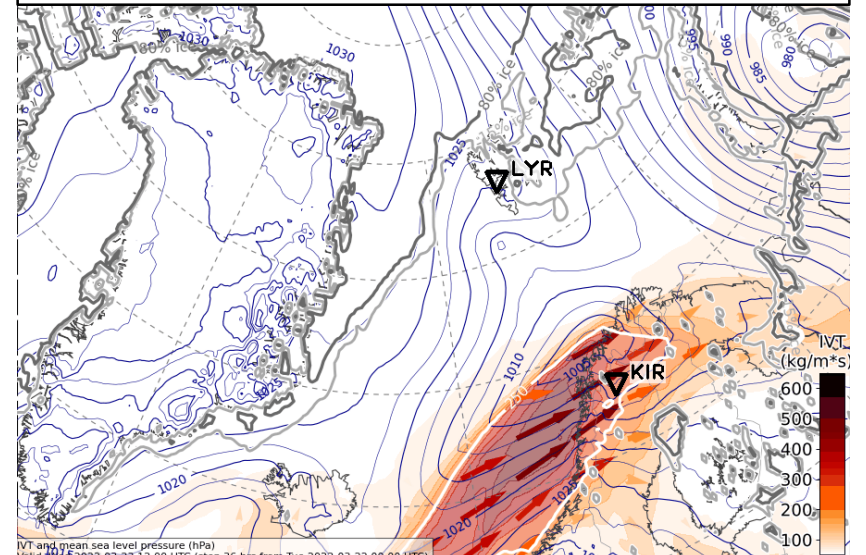
CAO Index



850 hPa Equiv. pot. temperature

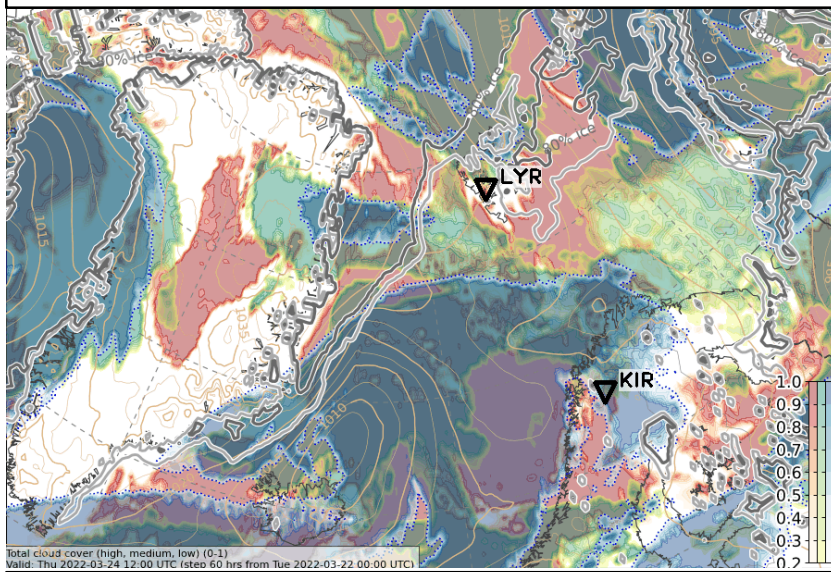


Integrated water vapour transport

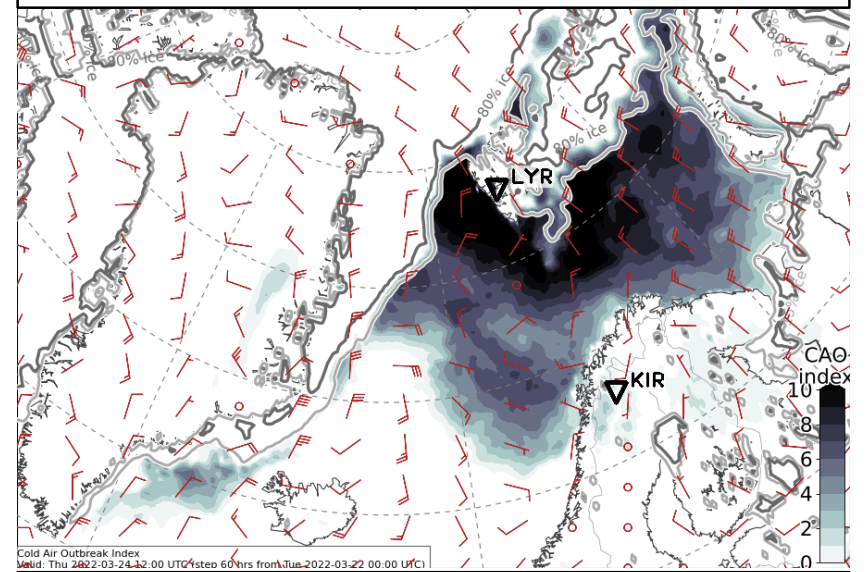


Thu, 2022-03-24 12 UTC (+60h)

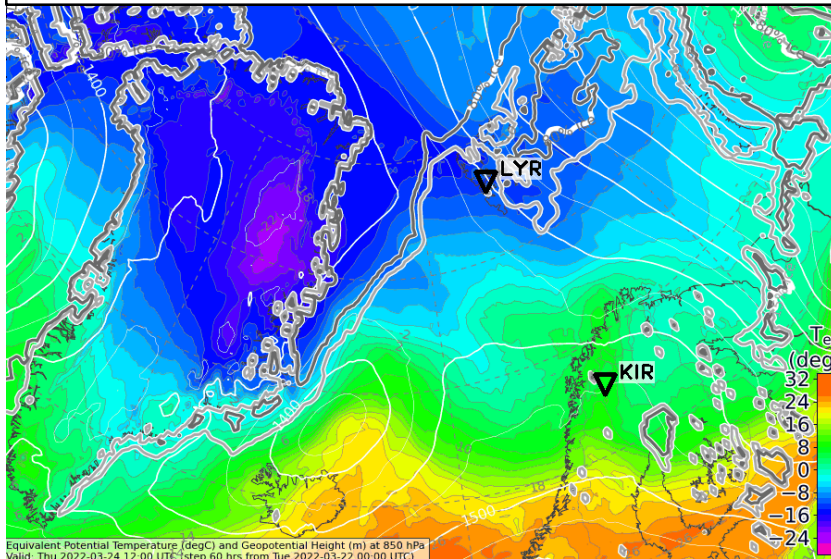
Total cloud cover



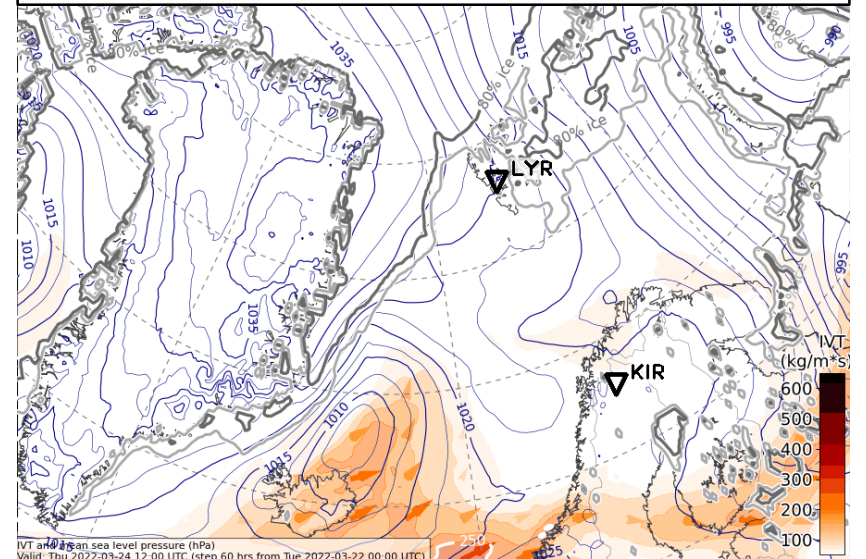
CAO Index



850 hPa Equiv. pot. temperature

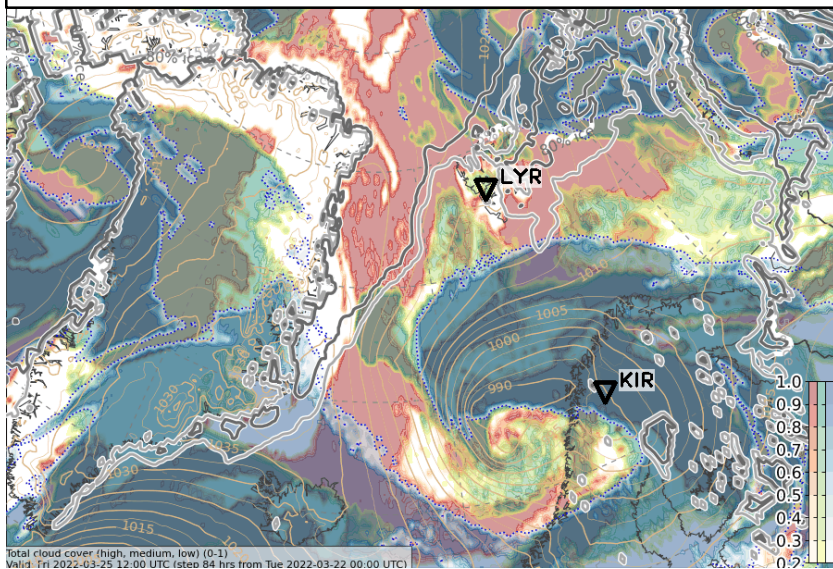


Integrated water vapour transport

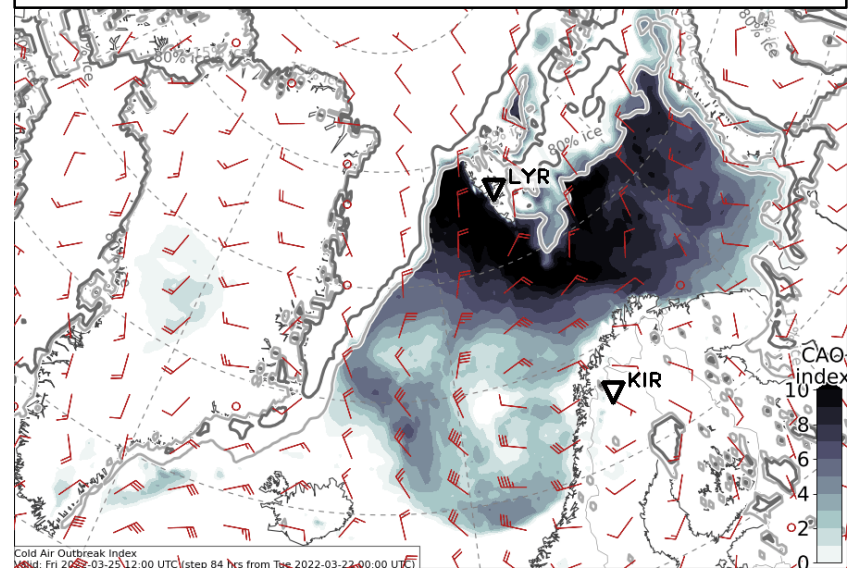


Fri, 2022-03-25 12 UTC (+84h)

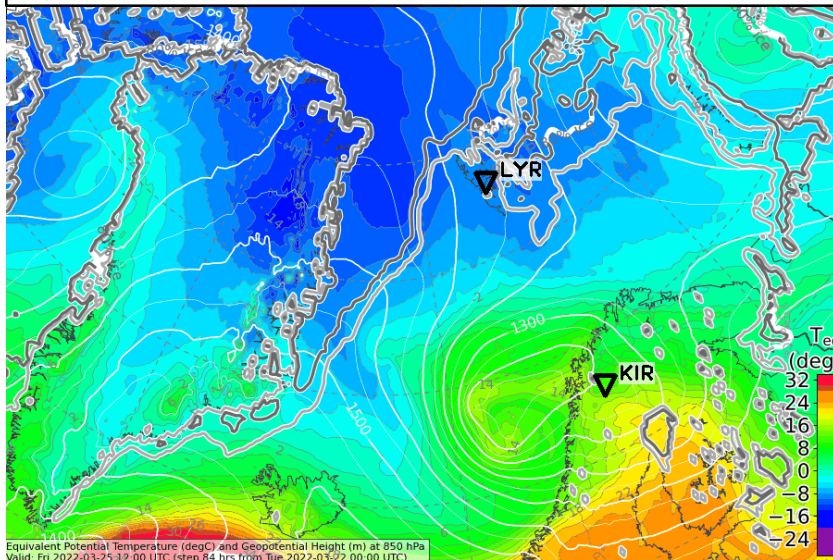
Total cloud cover



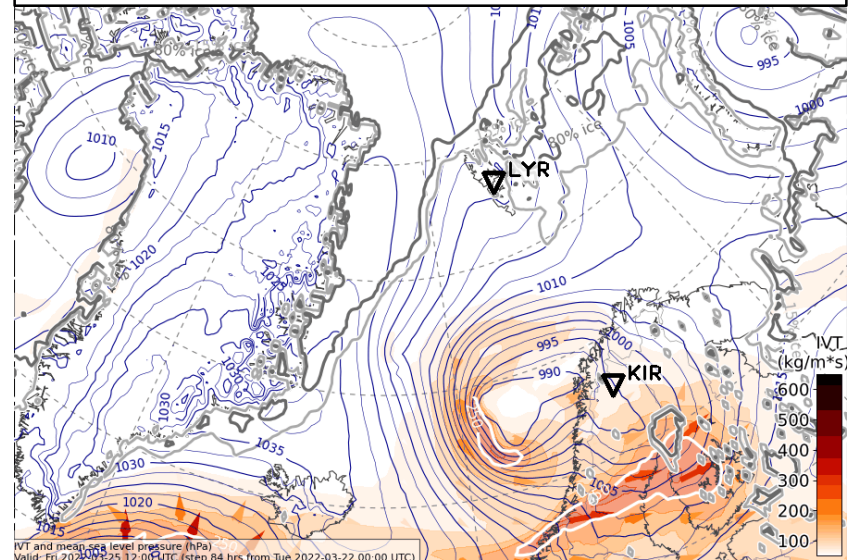
CAO Index



850 hPa Equiv. pot. temperature

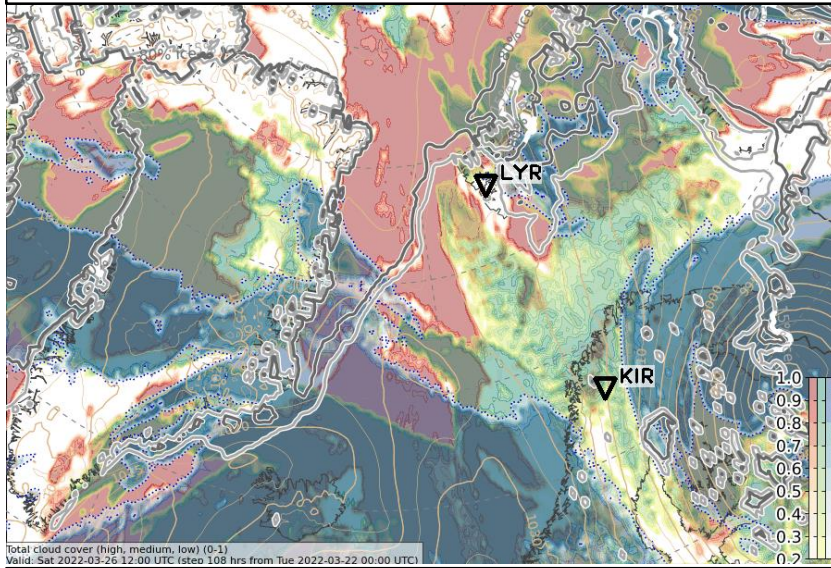


Integrated water vapour transport

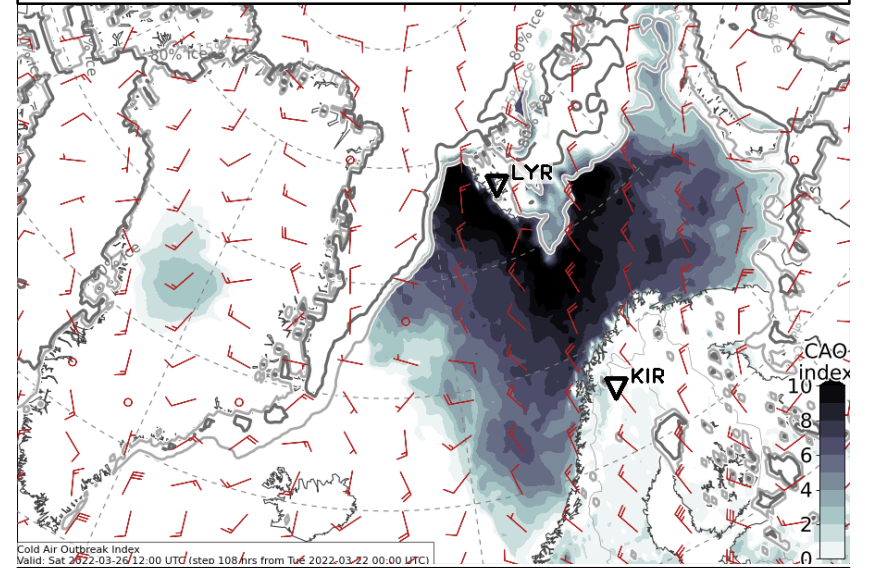


Sat, 2022-03-26 12 UTC (+108h)

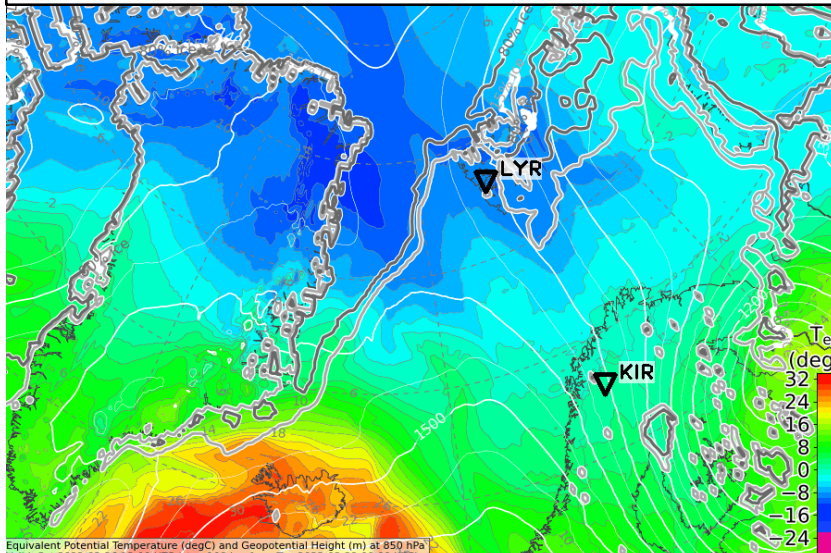
Total cloud cover



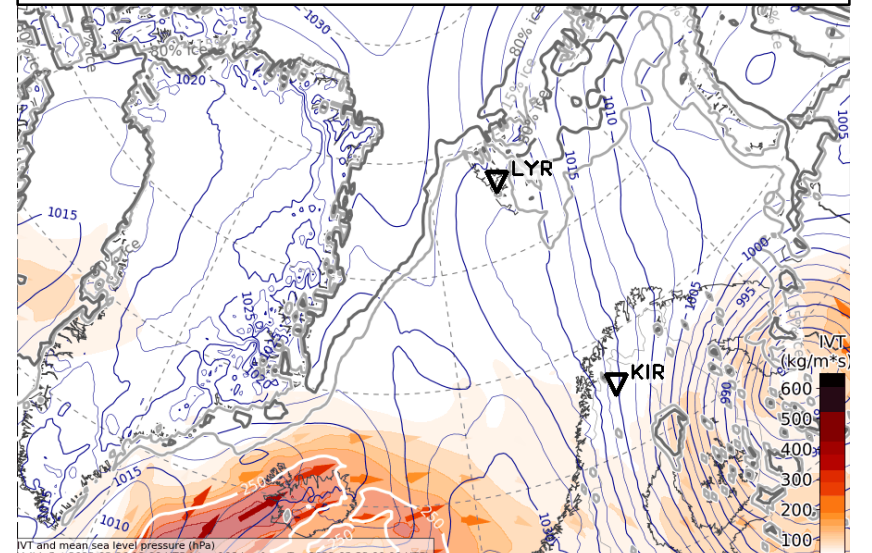
CAO Index



850 hPa Equiv. pot. temperature



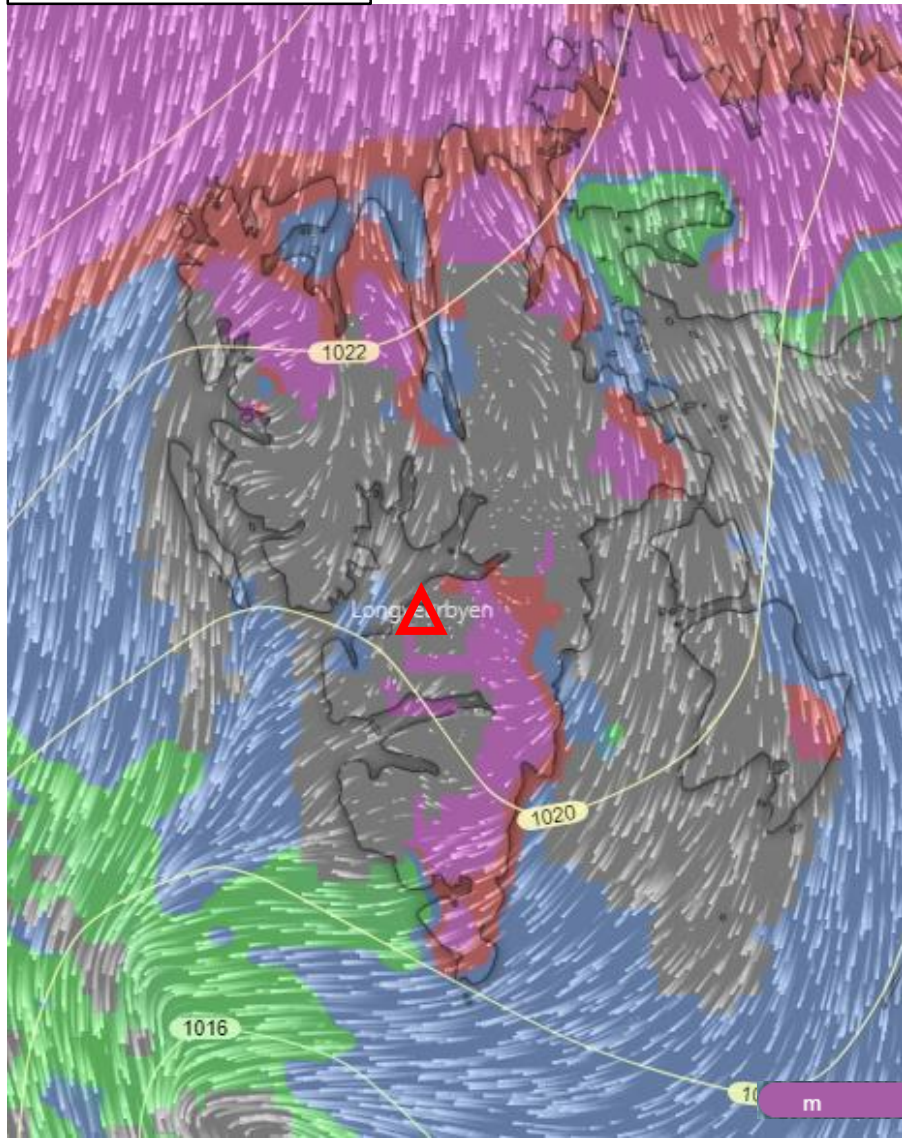
Integrated water vapour transport



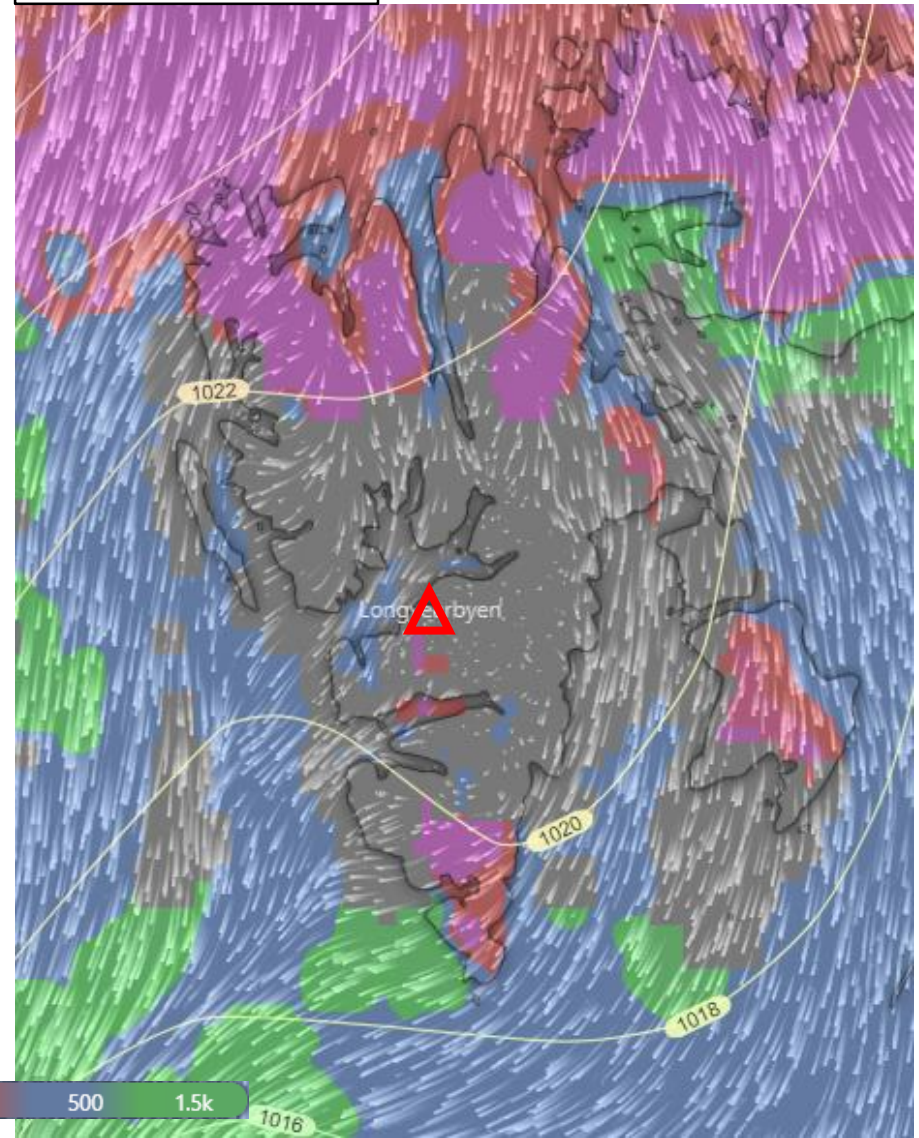
Airport meteograms & local weather at Svalbard

Wed, 2022-03-23, ECMWF Cloud base height

09 UTC

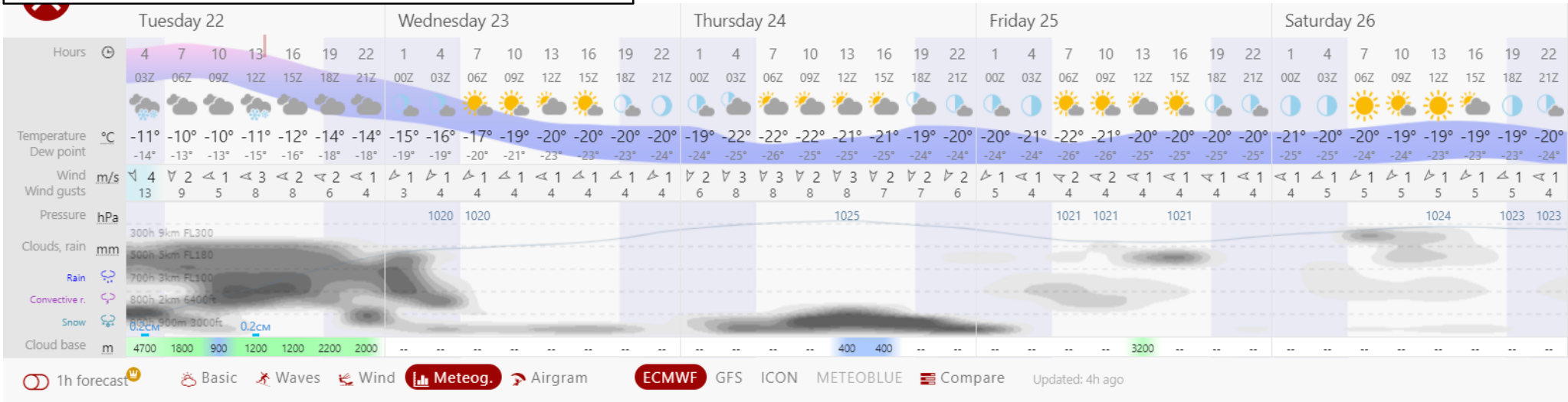


15 UTC

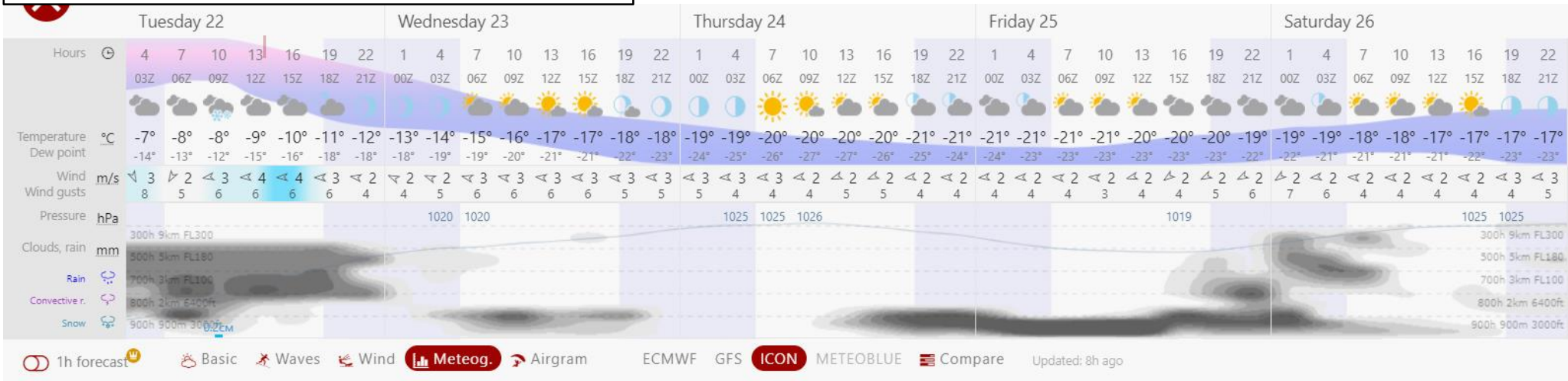


Longyearbyen:

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 **29** minutes ago, at **12:20** UTC

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

Temperature **-9°C**

Humidity **67%**

Pressure **1012** hPa

Visibility 10 km or more

Few clouds at a height of **1000** ft
Scattered clouds at a height of **3000** ft
Broken clouds at a height of **8000** ft

Low drifting snow, showers in vicinity

[Change units](#)

Time: 13:49 (12:49 UTC)

Forecast

Forecast valid from 22 at 12 UTC to 23 at 12 UTC

Wind **12** kt from the **East/Southeast**

Visibility 10 km or more

Few clouds at a height of **1000** ft
Broken clouds at a height of **3000** ft

Low drifting snow

*Temporary
from 22 at 12 UTC to 22 at 15 UTC*

Wind **25** kt from the **East/Southeast**

*Becoming
from 22 at 16 UTC to 22 at 18 UTC*

Wind **18** kt from the **Northeast**

TAF: ENSB 2212/2312 12012KT 9999
DRSN FEW010 BKN030 TEMPO 2212/2215
12025KT BECMG 2216/2218 05018KT

Summary

Summary: Weather Briefing 2022-03-22, 17:00 LT

- **Wednesday, 2022-03-23:**
 - Polar Low southwest of Svalbard
 - Calm and cold weather in LYR
 - Snow at northern coast of Svalbard
- **Thursday, 2022-03-24:**
 - CAO remains strong around Svalbard
 - Convergence lines or meso-scale vortices uncertain
- **Friday, 2022-03-25:**
 - Calm winds in western Fram Strait
 - CAO with N-NE flow around Svalbard
- **Saturday, 2022-03-26:**
 - Position of High uncertain → Wind directions uncertain
- **Sunday, 2022-03-27:**
 - Northerly flow again over entire Fram Strait; NE flow between Norway and Svalbard
- **Outlook:**
 - Northerly flow in Fram Strait continues
 - 850 hPa temperatures increase from $< -20^{\circ}\text{C}$ to $> -10^{\circ}\text{C}$ due to WAI over Alaska