

# Weather Briefing

## HALO-(AC)<sup>3</sup>

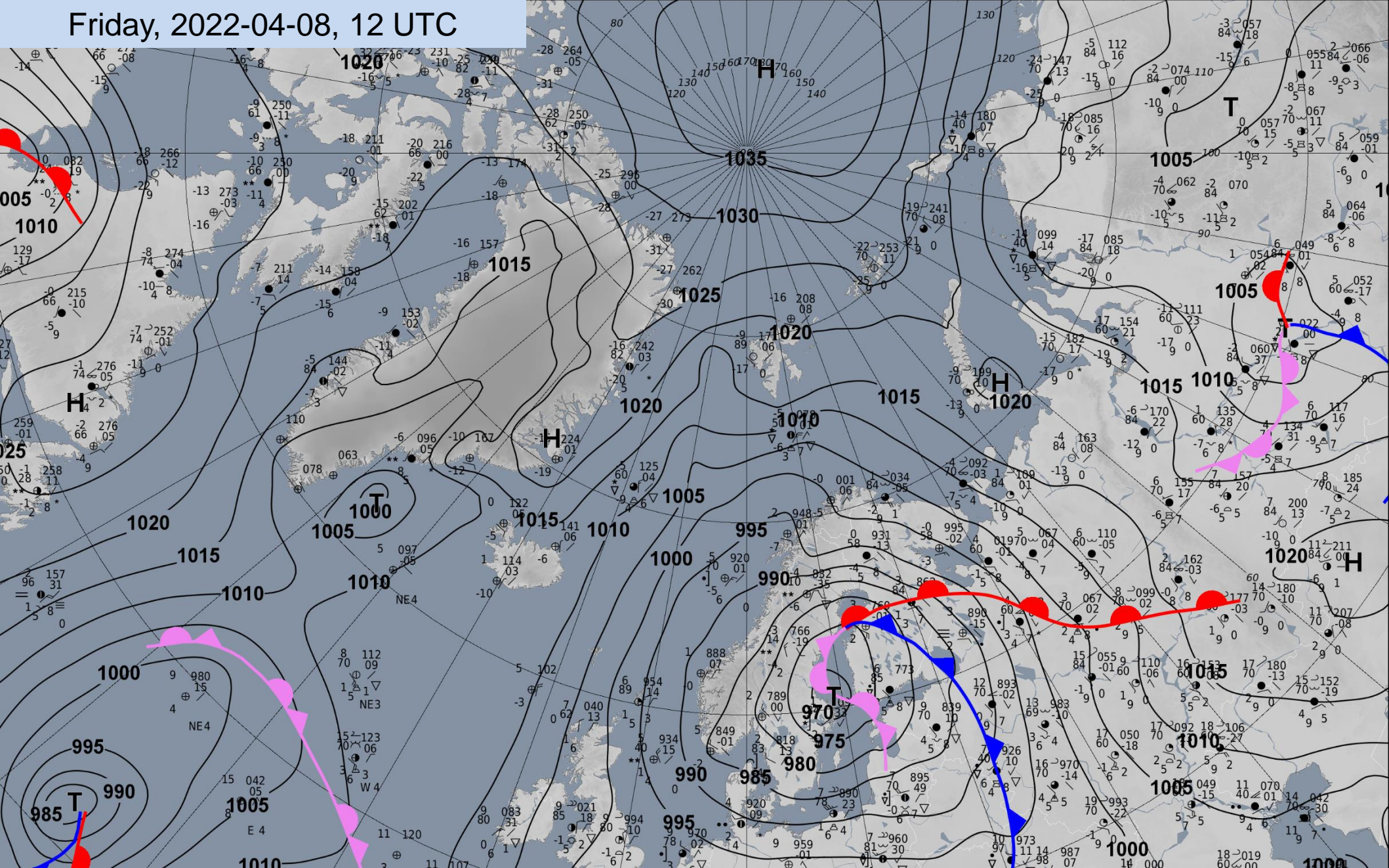
Friday, 2022-04-08, 17:00 LT

## **Surface Analysis**

Friday, 2022-04-08 12 UTC

DWD

Friday, 2022-04-08, 12 UTC



## **Surface wind development and precipitation**

2022-04-08 00 UTC: 36 – 108h

ECMWF & ICON

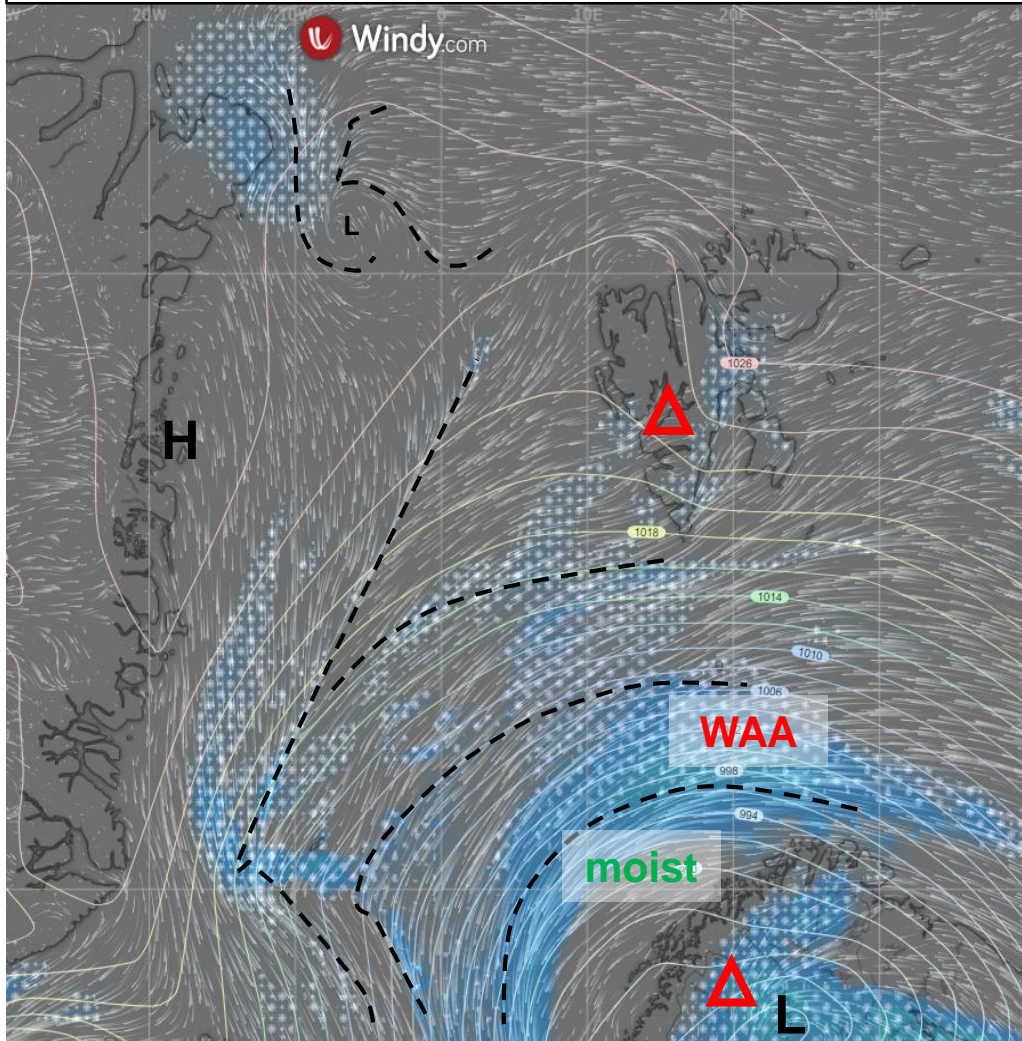
**CAA: Cold Air Advection**

**WAA: Warm Air Advection**

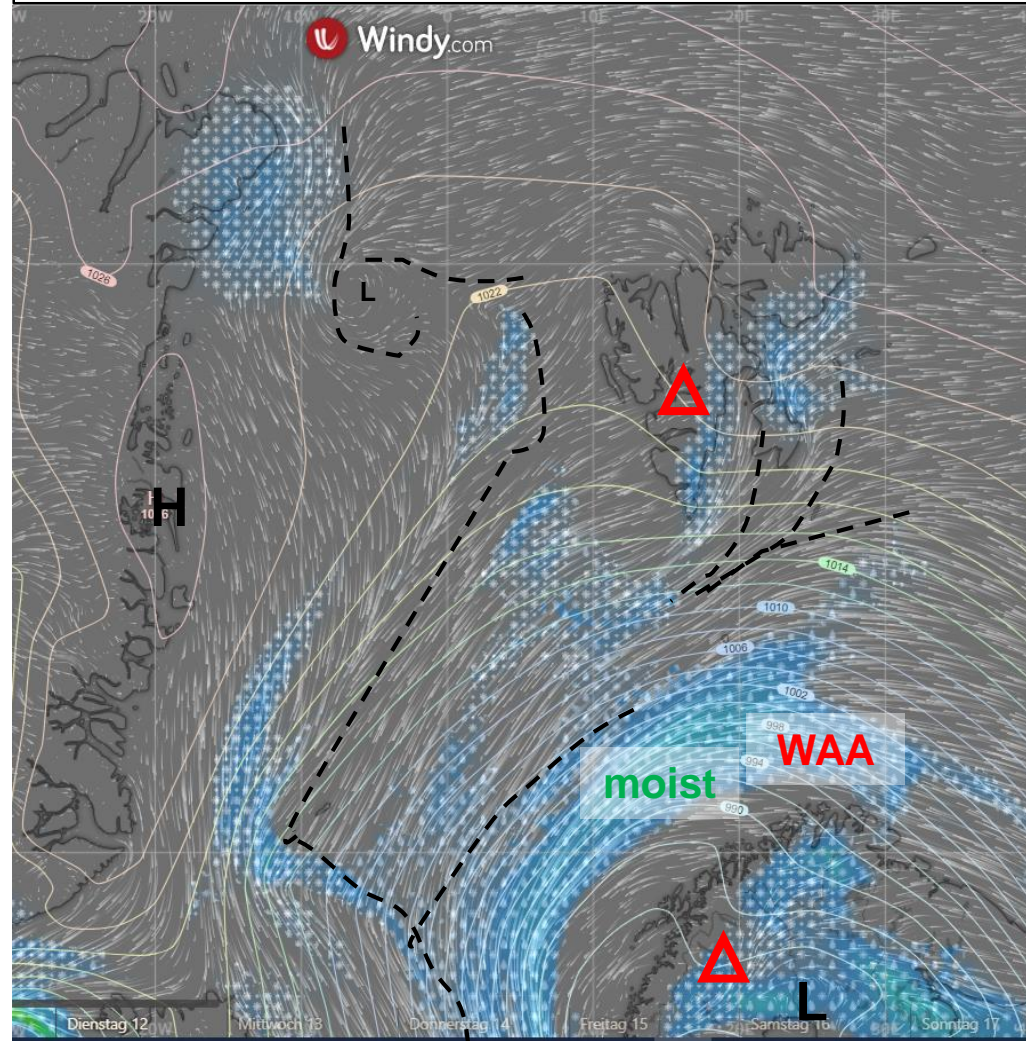


Saturday, 2022-04-09 12 UTC (+36 h)

ECMWF



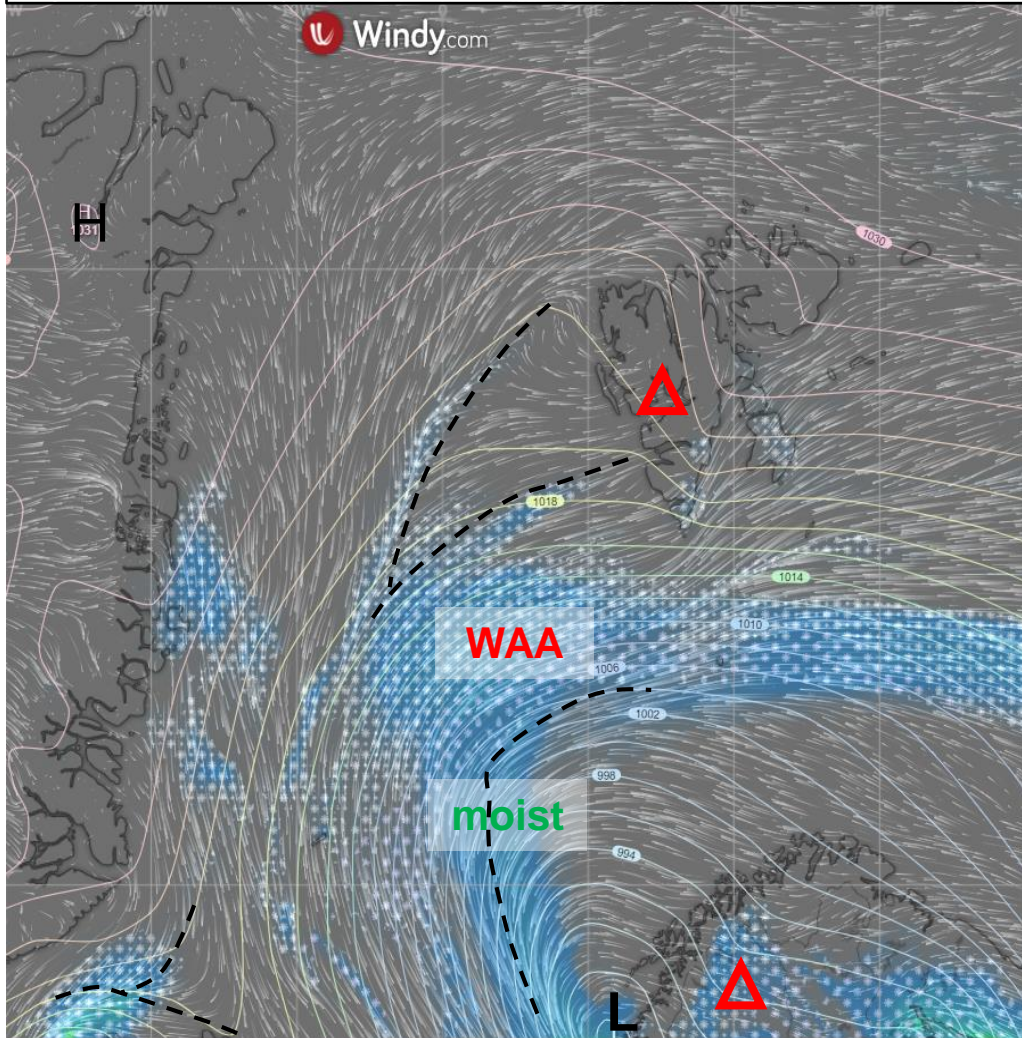
ICON



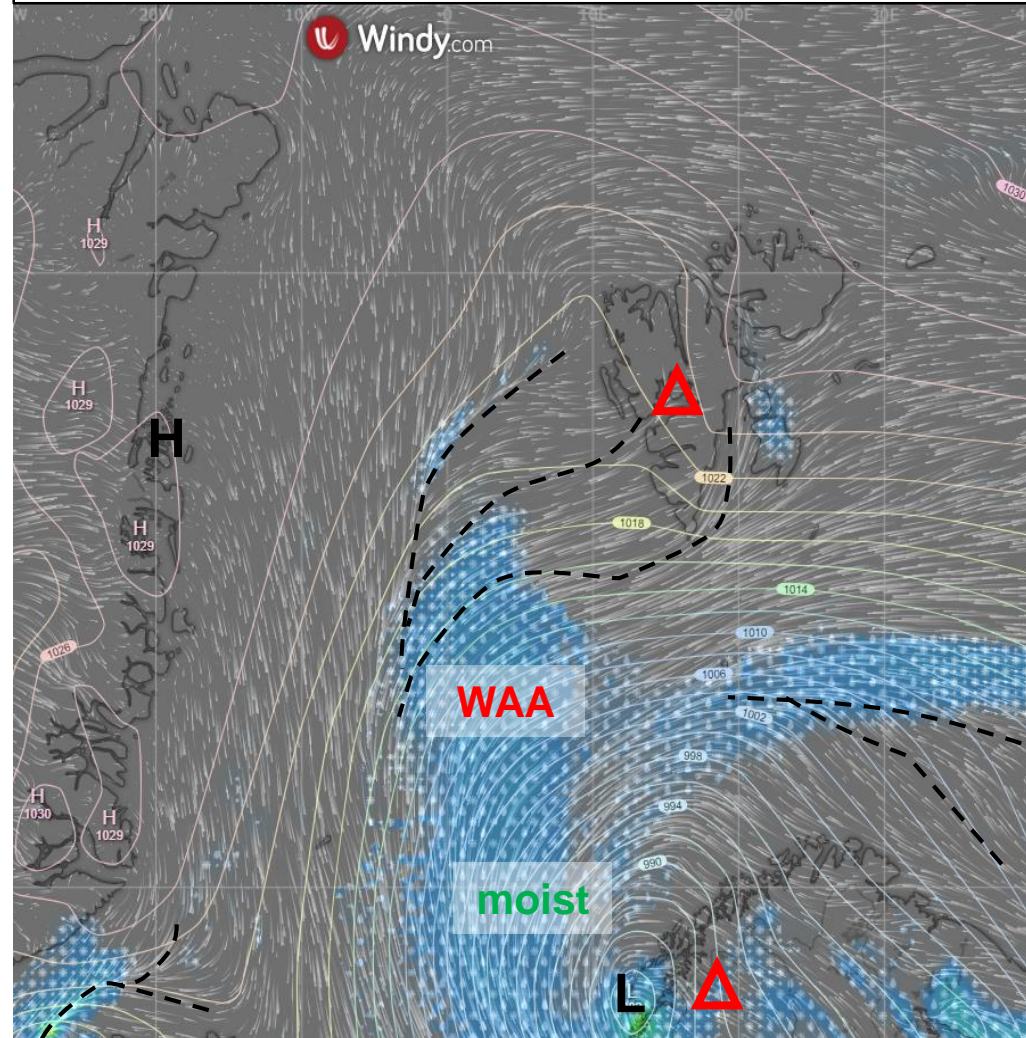


# Sunday, 2022-04-10 12 UTC (+60 h)

ECMWF



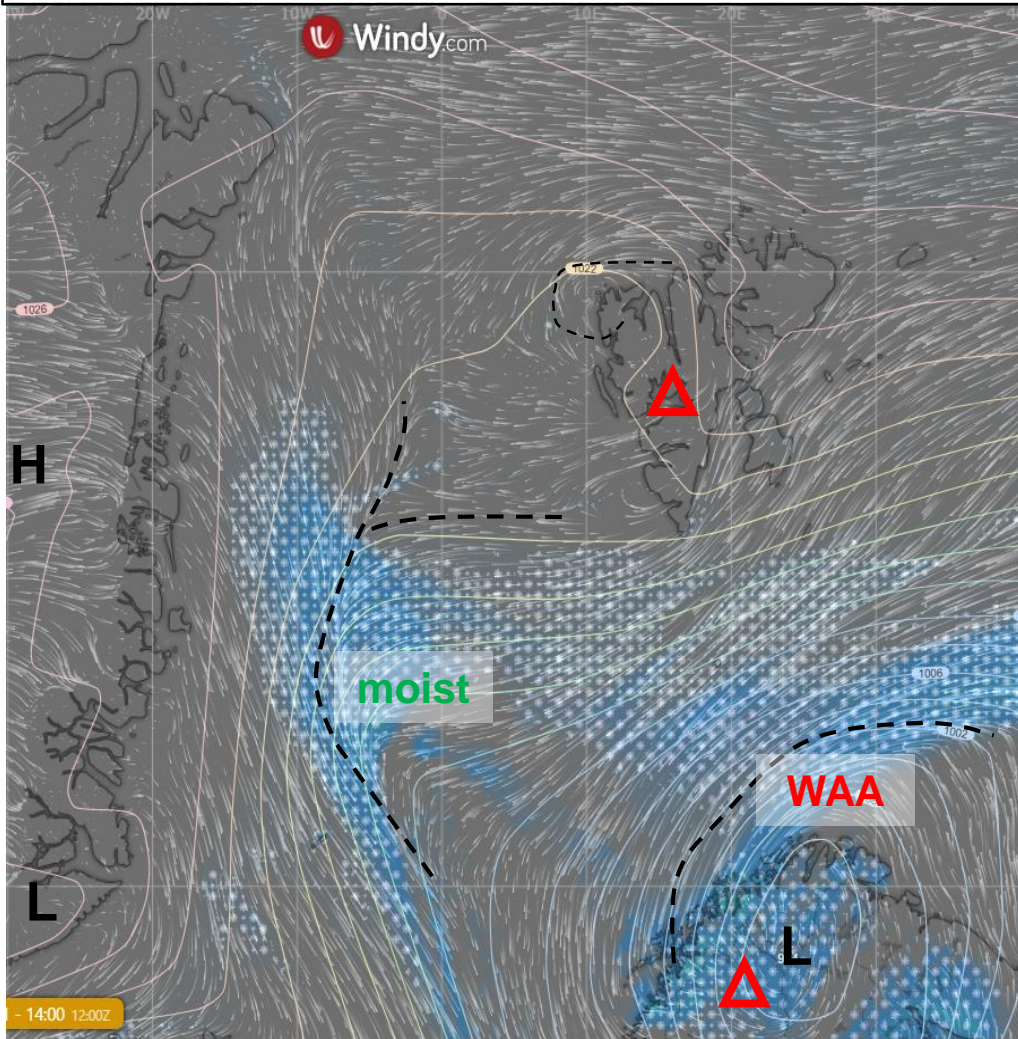
ICON



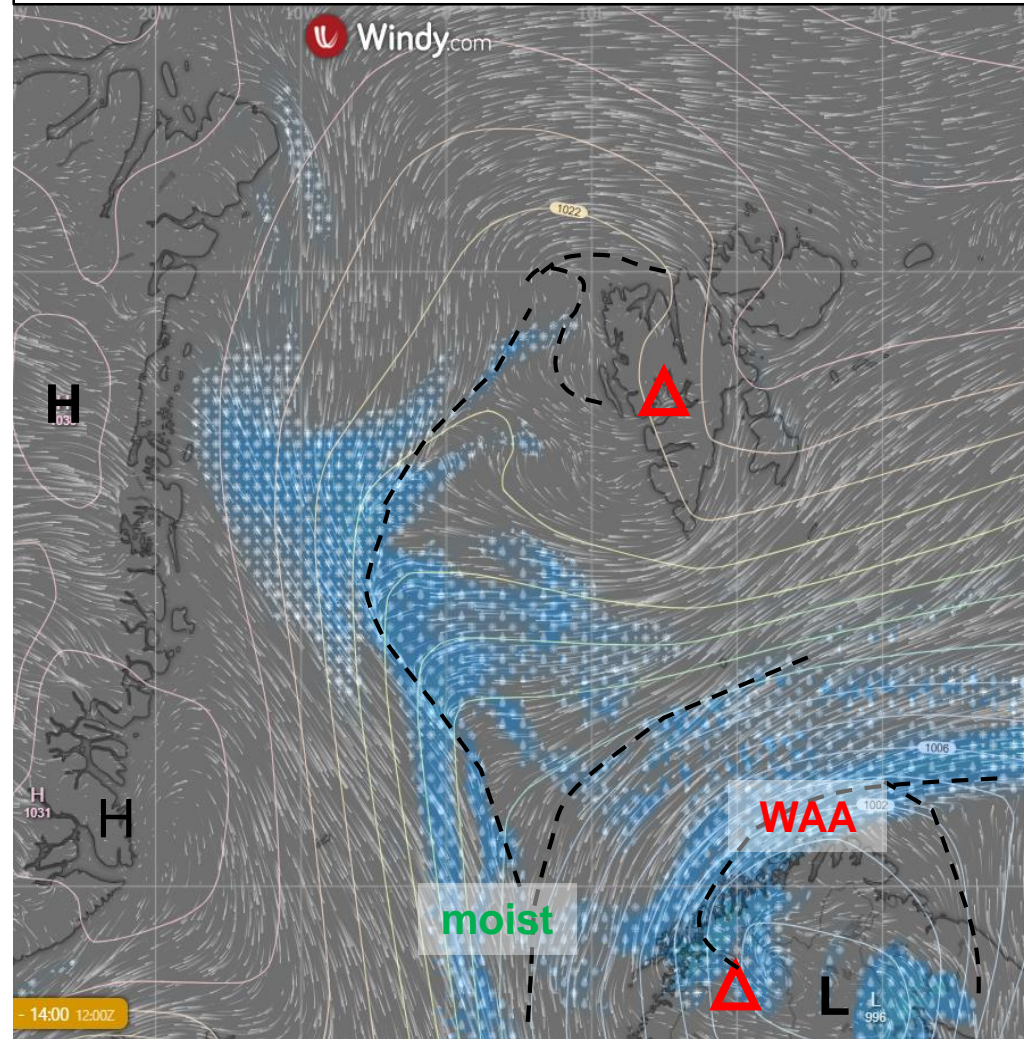


Monday, 2022-04-11 12 UTC (+84 h)

ECMWF



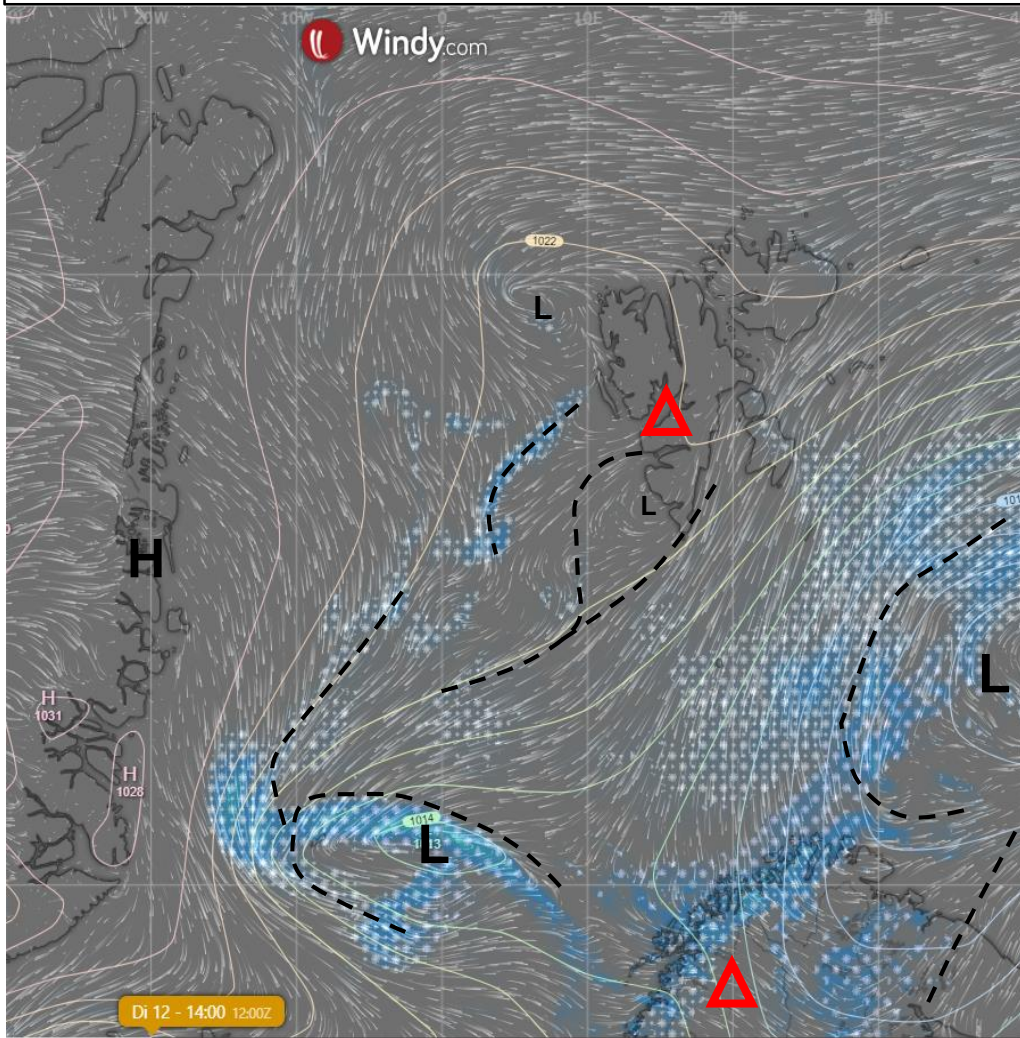
ICON



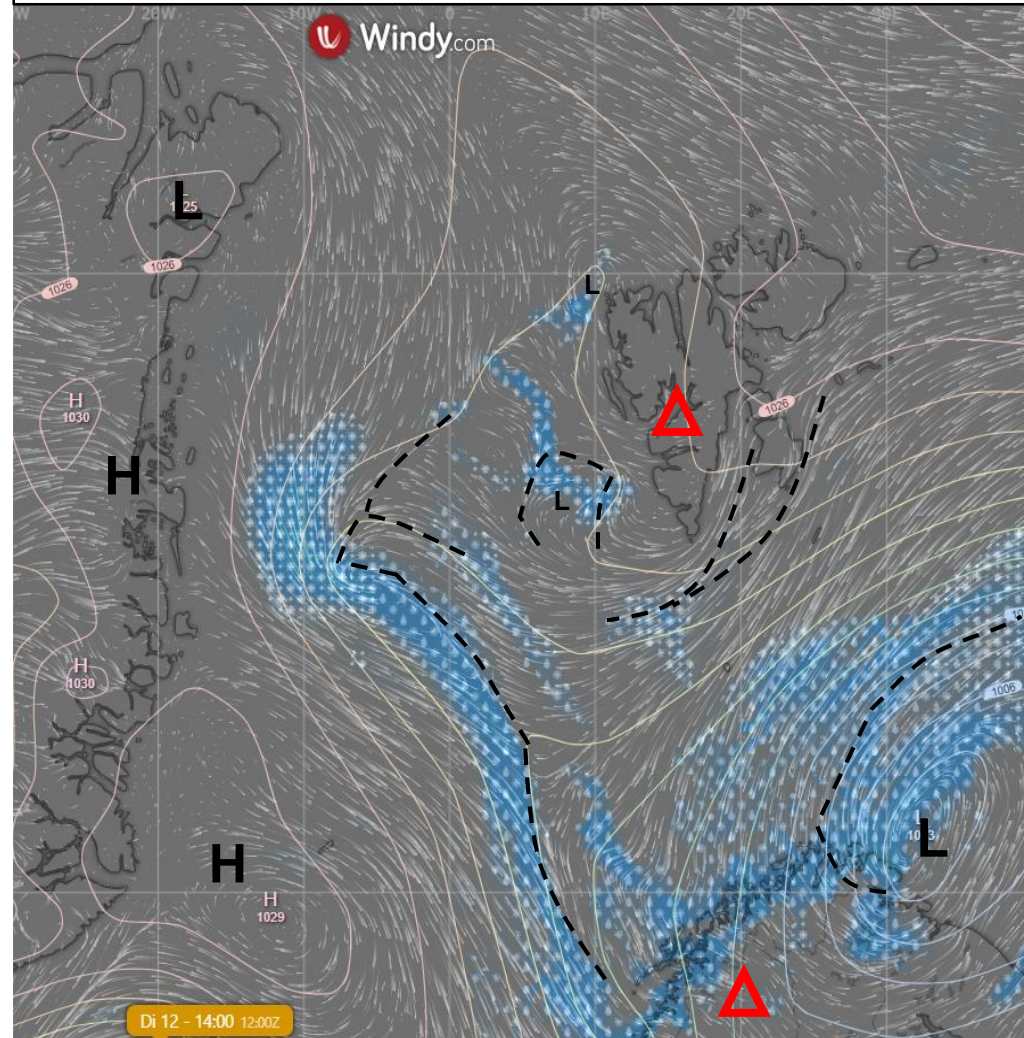


Tuesday, 2022-04-12 12 UTC (+108 h)

ECMWF



ICON





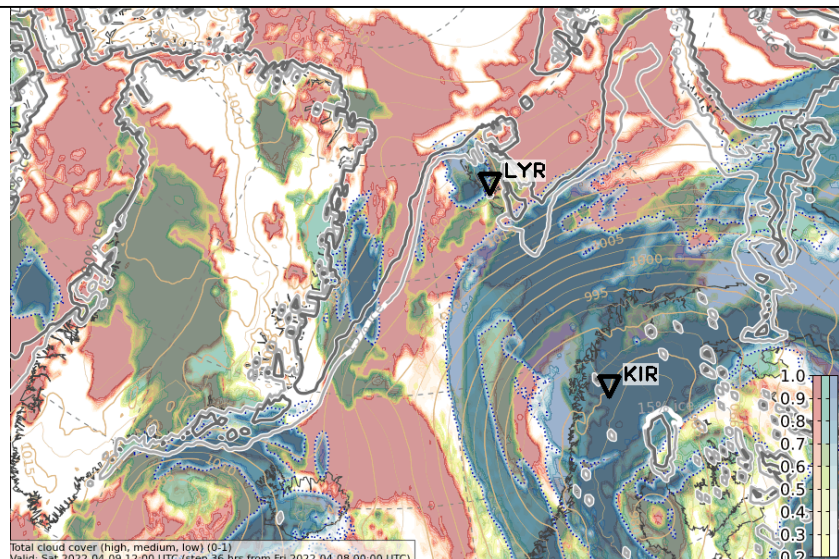
## **Cloud cover, CAO index, Airmasses, IVT**

2022-04-08 00 UTC: 36 – 108h

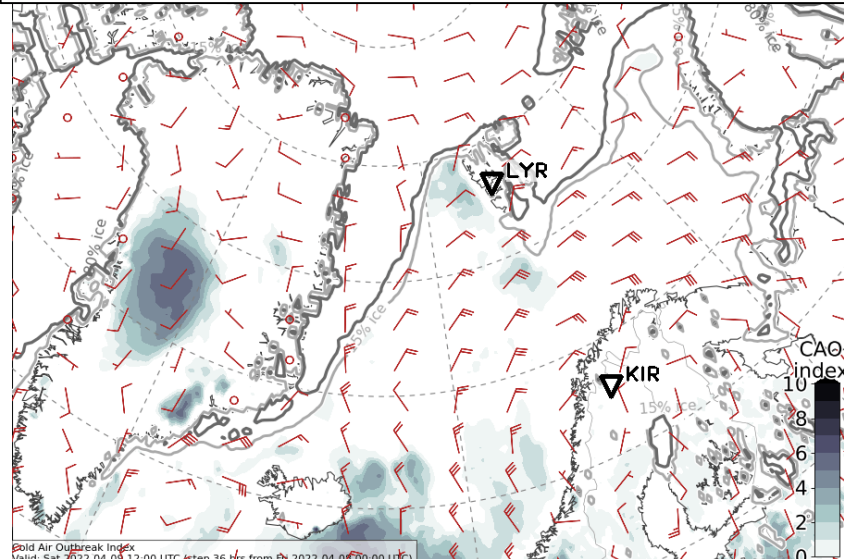
Cloud cover & 850hPa  $\theta_e$  & CAO & IVT

Saturday, 2022-04-09 12 UTC (+36)

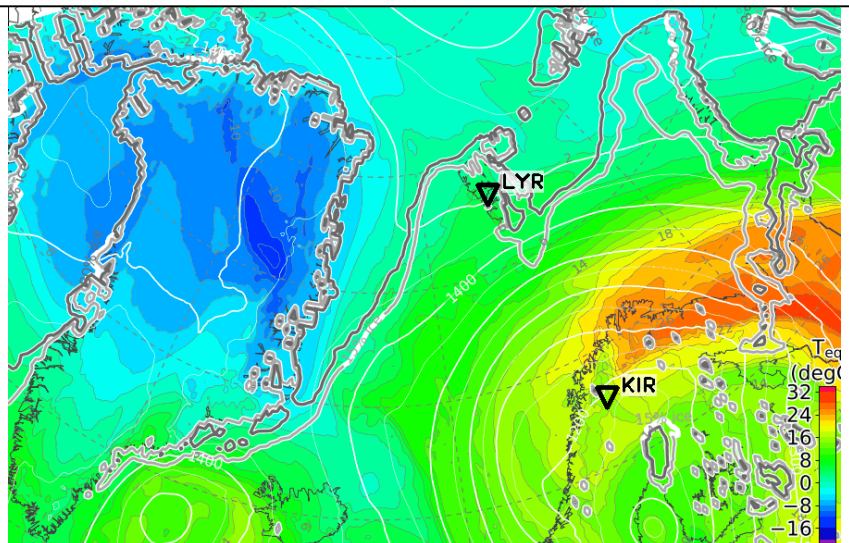
Total Cloud Cover



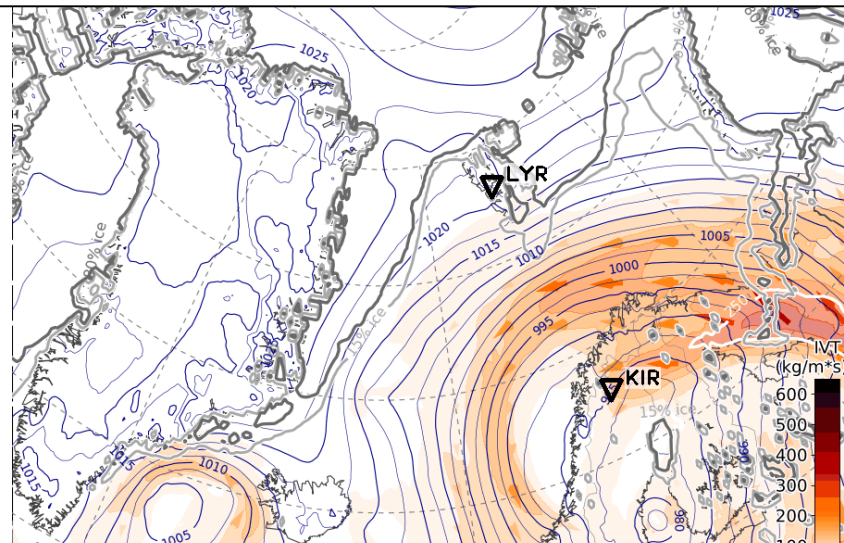
CAO Index



850 hPa Equ. pot. Temperature



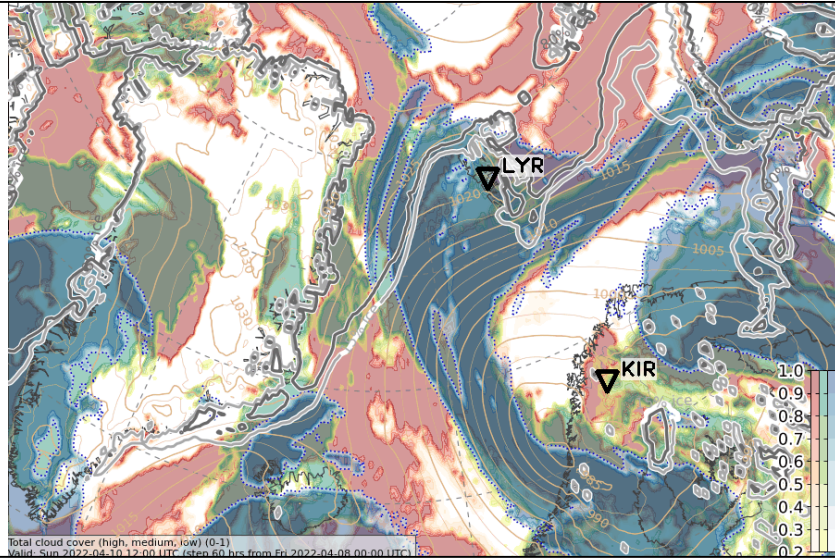
Integrated Water Vapor Transport



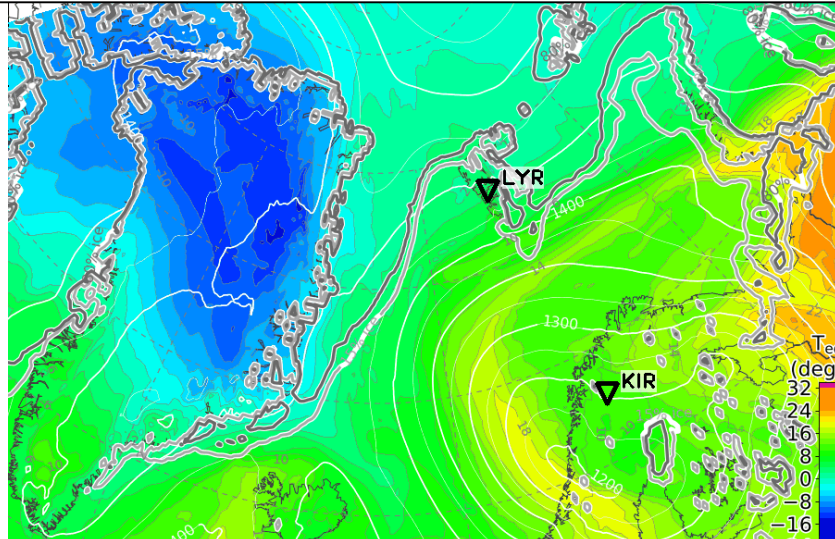


Sunday, 2022-04-10 12 UTC (+60)

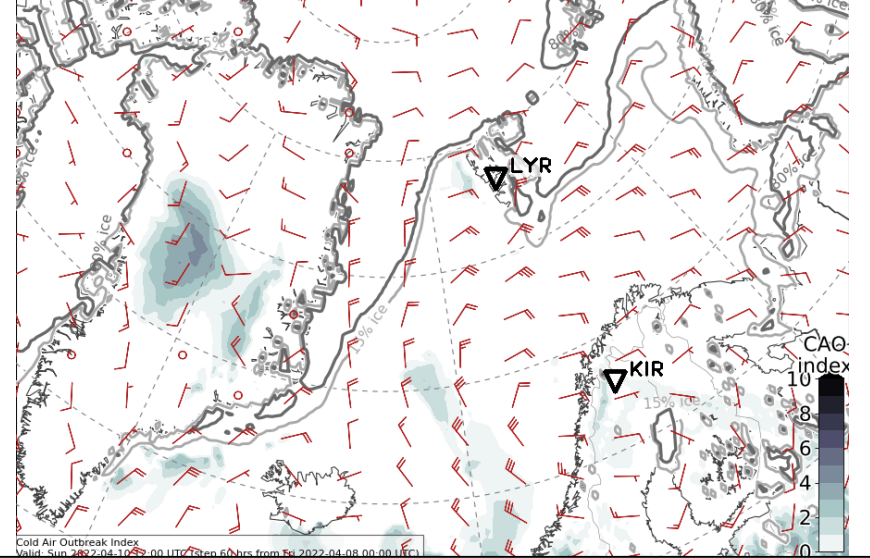
Total Cloud Cover



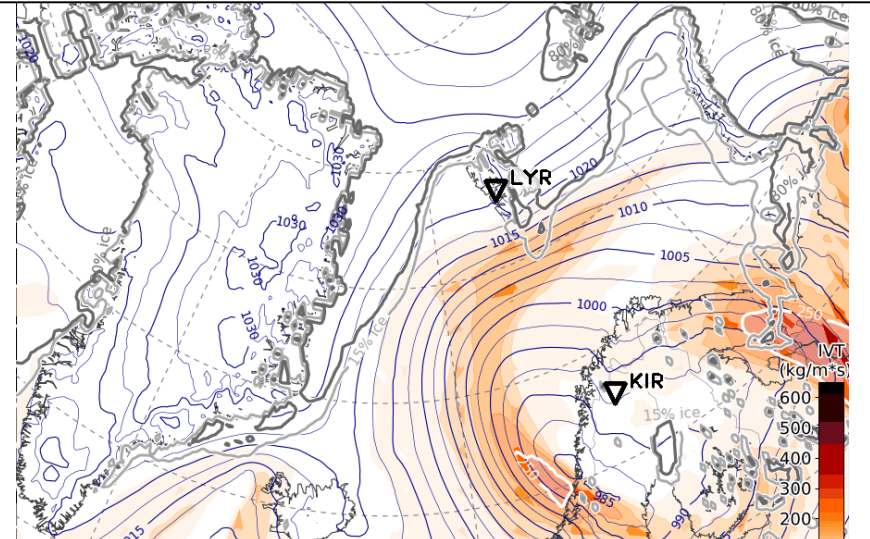
850 hPa Equ. pot. Temperature



CAO Index



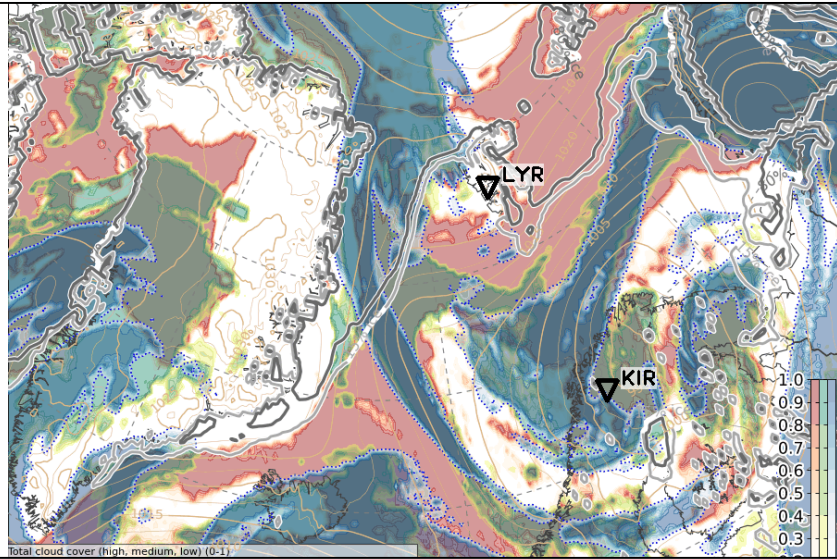
Integrated Water Vapor Transport



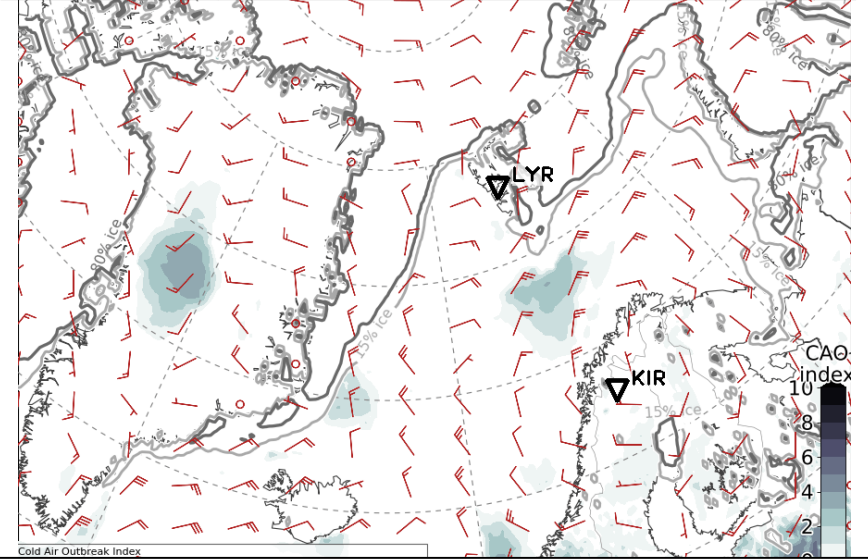


Monday, 2022-04-11 12 UTC (+84)

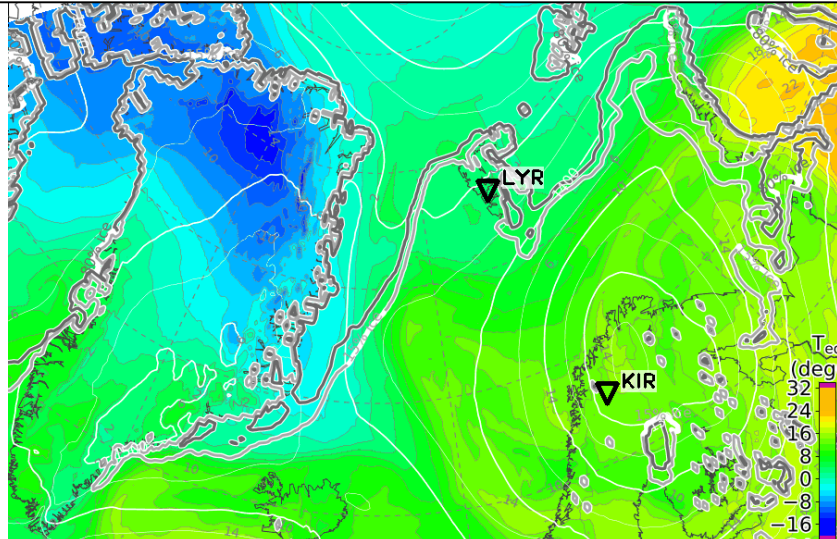
Total Cloud Cover



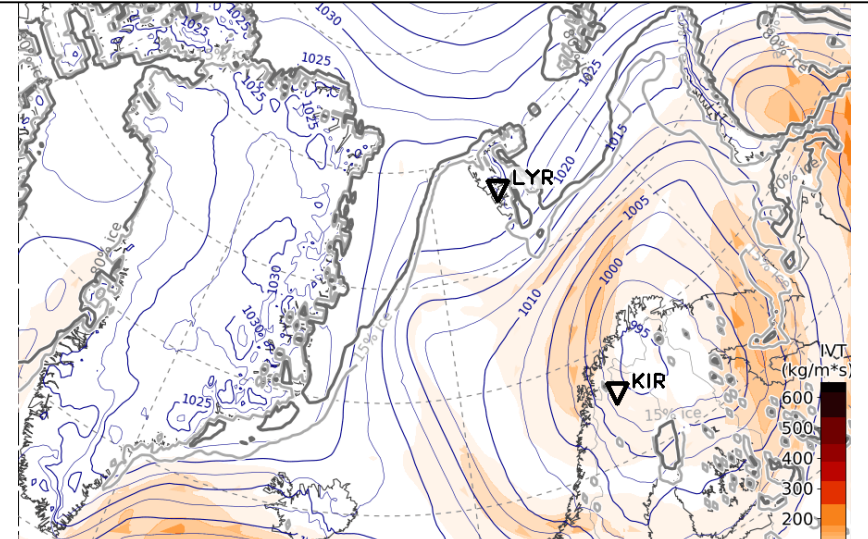
CAO Index



850 hPa Equ. pot. Temperature



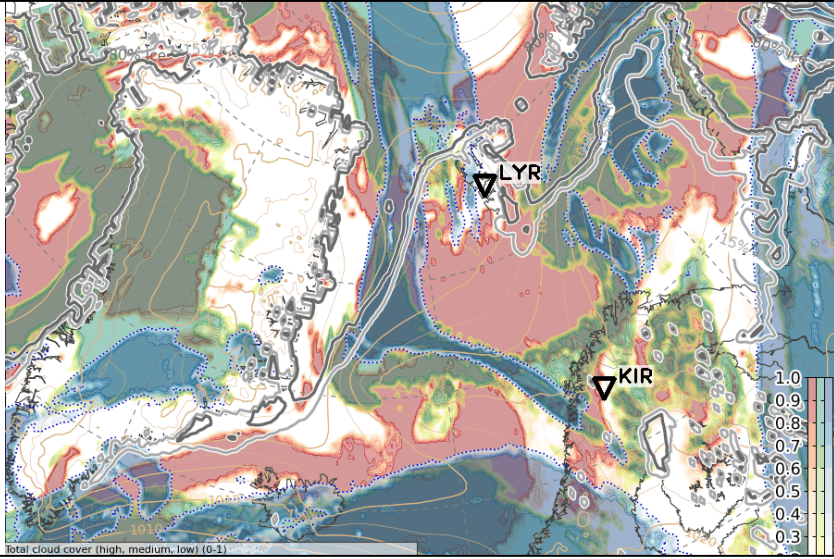
Integrated Water Vapor Transport



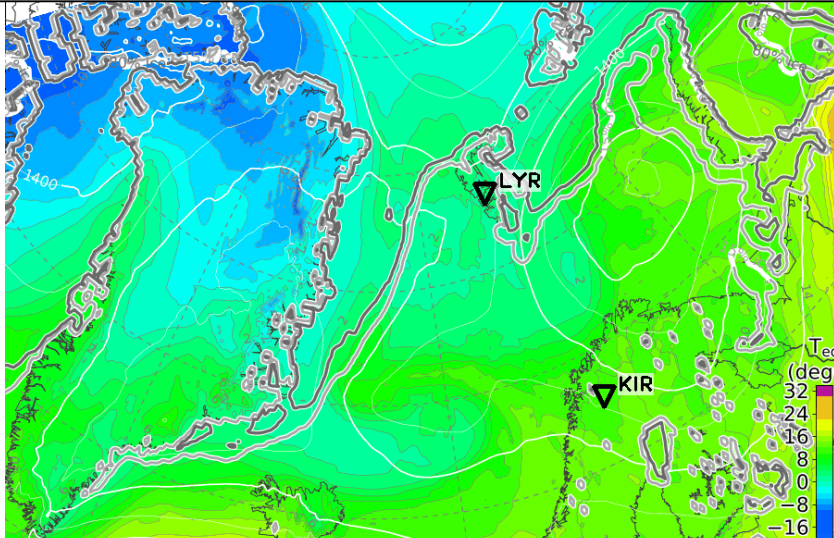


Tuesday, 2022-04-12 12 UTC (+108)

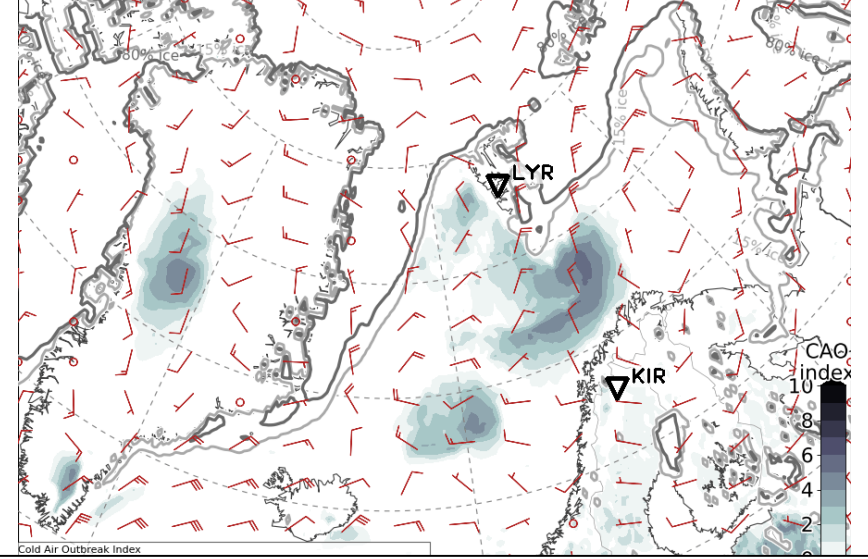
Total Cloud Cover



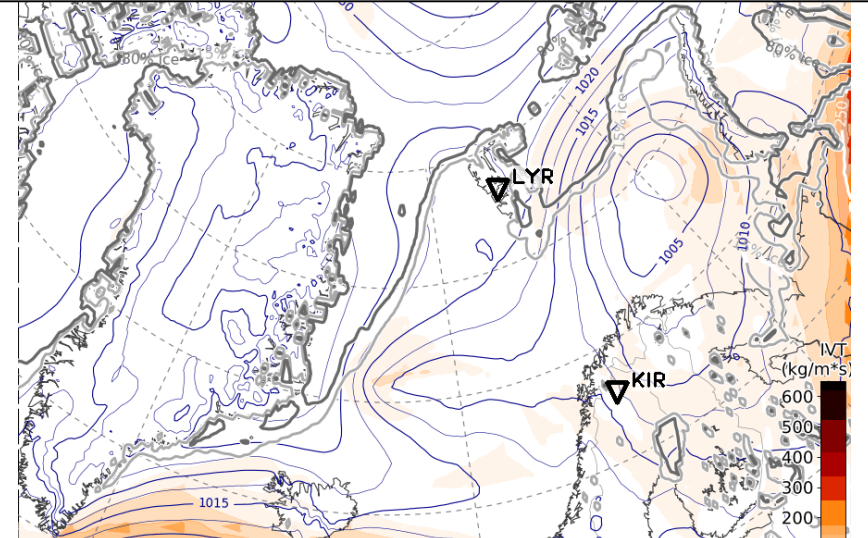
850 hPa Equ. pot. Temperature



CAO Index



Integrated Water Vapor Transport



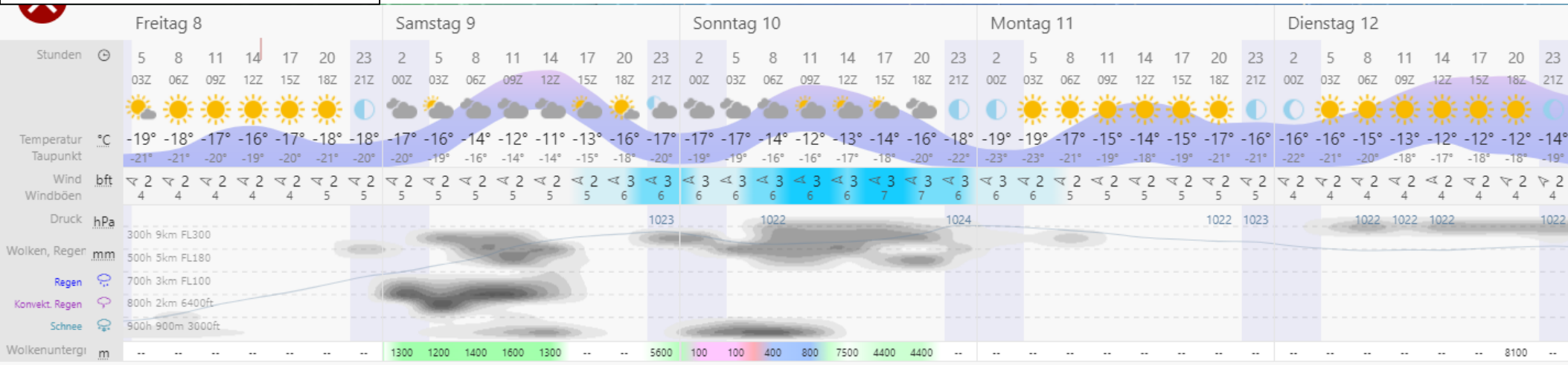
## **Airport meteograms & local weather at Svalbard**





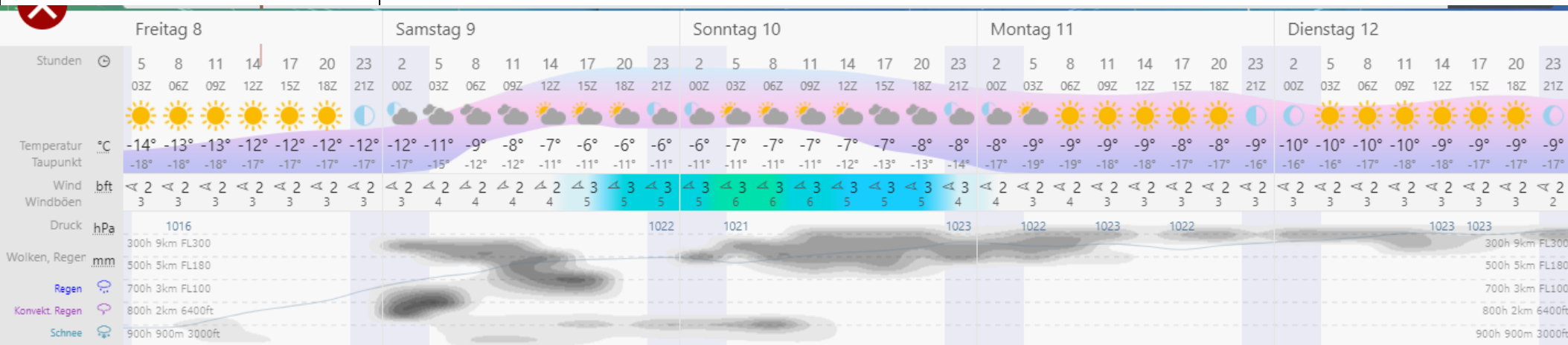
# Longyearbyen:

## ECMWF



1-Std Vorhersage | Basisdaten | Wellen | Wind | **Meteog.** | Airgram | **ECMWF** | GFS | ICON | METEOBLUE | Vergleichen | Aktualisiert: vor 4 Std.

## ICON



1-Std Vorhersage | Basisdaten | Wellen | Wind | **Meteog.** | Airgram | ECMWF | GFS | **ICON** | METEOBLUE | Vergleichen | Aktualisiert: vor 8 Std.



# 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 **36** minutes ago, at **12:50**  
UTC

Wind **8** kt from the **Southeast**

Temperature **-10°C**

Humidity **67%**

Pressure **1016** hPa

Visibility **10 km** or more

no clouds below 1500 m and no cumulonimbus

Time: 15:26 (13:26 UTC)

### Forecast

*Forecast valid from 08 at 12 UTC to 09 at 12  
UTC*

Wind **15** kt from the **East/Southeast**

Visibility **10 km** or more

no clouds below 1500 m and no cumulonimbus

*Temporary  
from 09 at 00 UTC to 09 at 12 UTC*

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

**TAF:** ENSB 0812/0912 12015KT CAVOK  
**TEMPO** 0900/0912 12025KT

## Summary



# Summary Weather Briefing, 2022-04-08 17:00 LT

- **Saturday, 2022-04-09**
  - polar low weakens and moves northward
  - low pressure system over Scandinavia → strong winds, precipitation
  - Warm/moisture air over Barents Sea, coming from Russia
  - Low-level clouds over Fram Strait
- **Sunday, 2022-04-10**
  - WAA penetrates to the west, but weaker than Saturday
  - mid- and high-level clouds over Fram Strait
- **Monday, 2022-04-11**
  - LYR: cloud free
  - Mid- and high level clouds over Fram Strait
  - still warm and moist air
- **Tuesday, 2022-04-12**
  - clouds over western Fram Strait
  - colder and drier from the north