

Weather Briefing

HALO-(AC)³

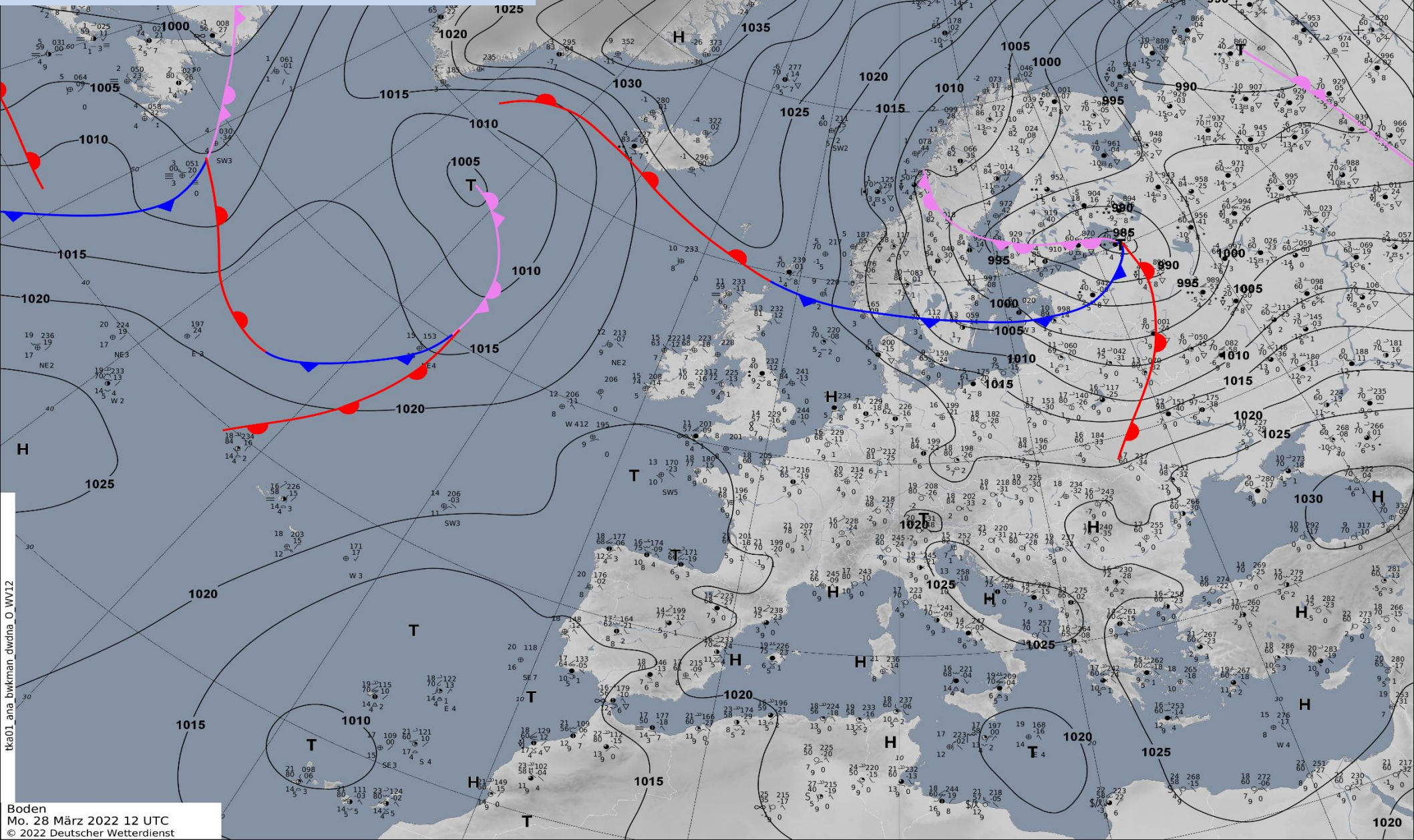
Monday, 2022-03-28, 17:00 LT

Surface Analysis

Monday, 2022-03-28 12 UTC

DWD

Monday, 2022-03-28, 12 UTC



tkae01_ana_bukman_dwdna_Q_WV12

Surface wind development and precipitation

2022-03-28 00 UTC: 36 – 108h

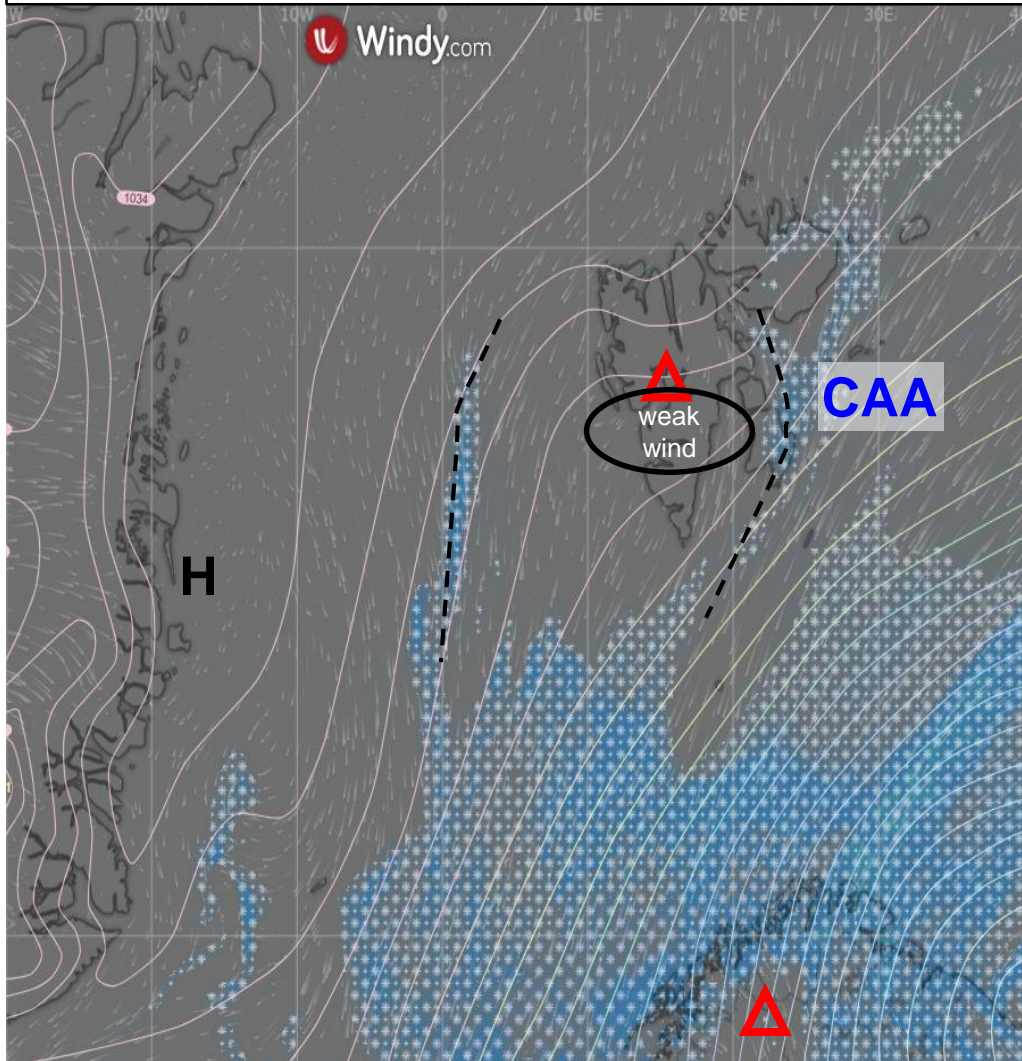
ECMWF & ICON

CAA: Cold Air Advection

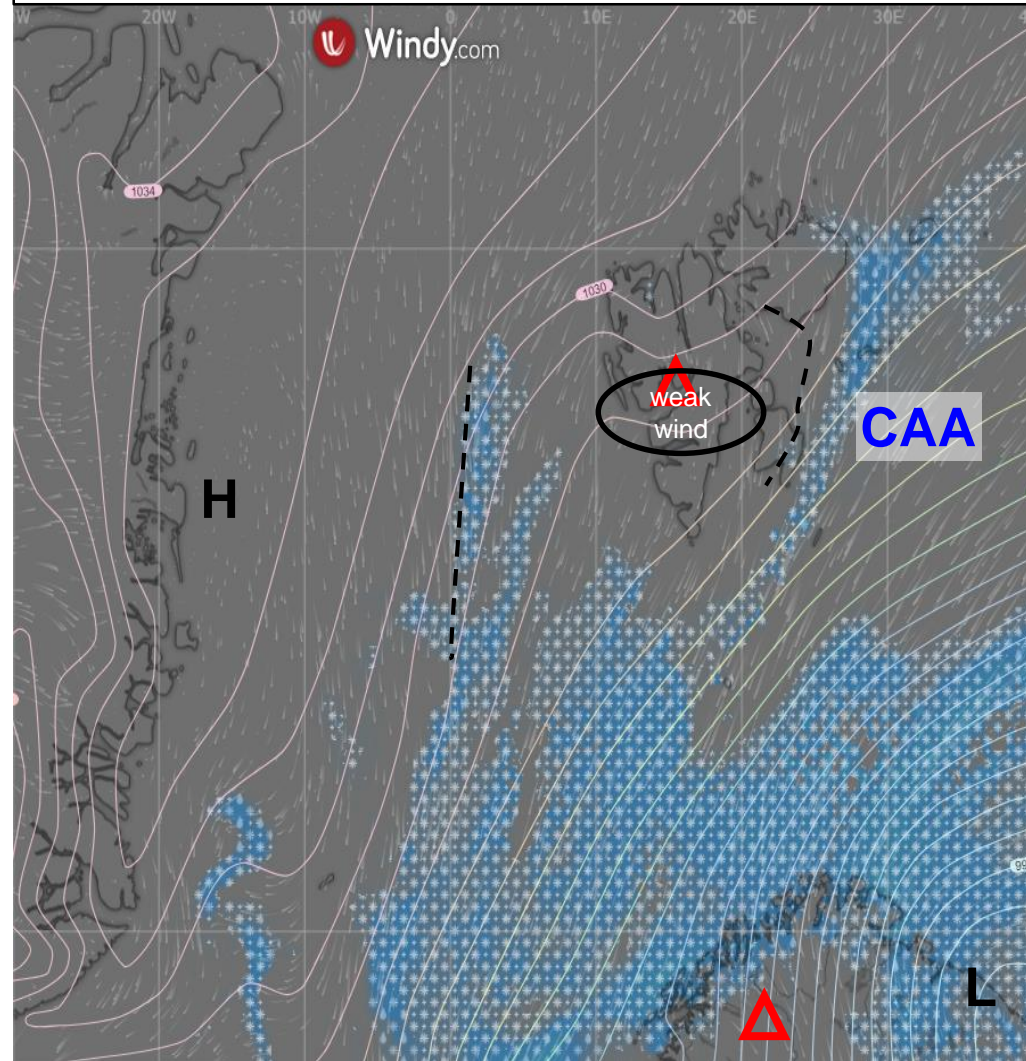
WAA: Warm Air Advection

Tuesday, 2022-03-29 12 UTC (+36 h)

ECMWF

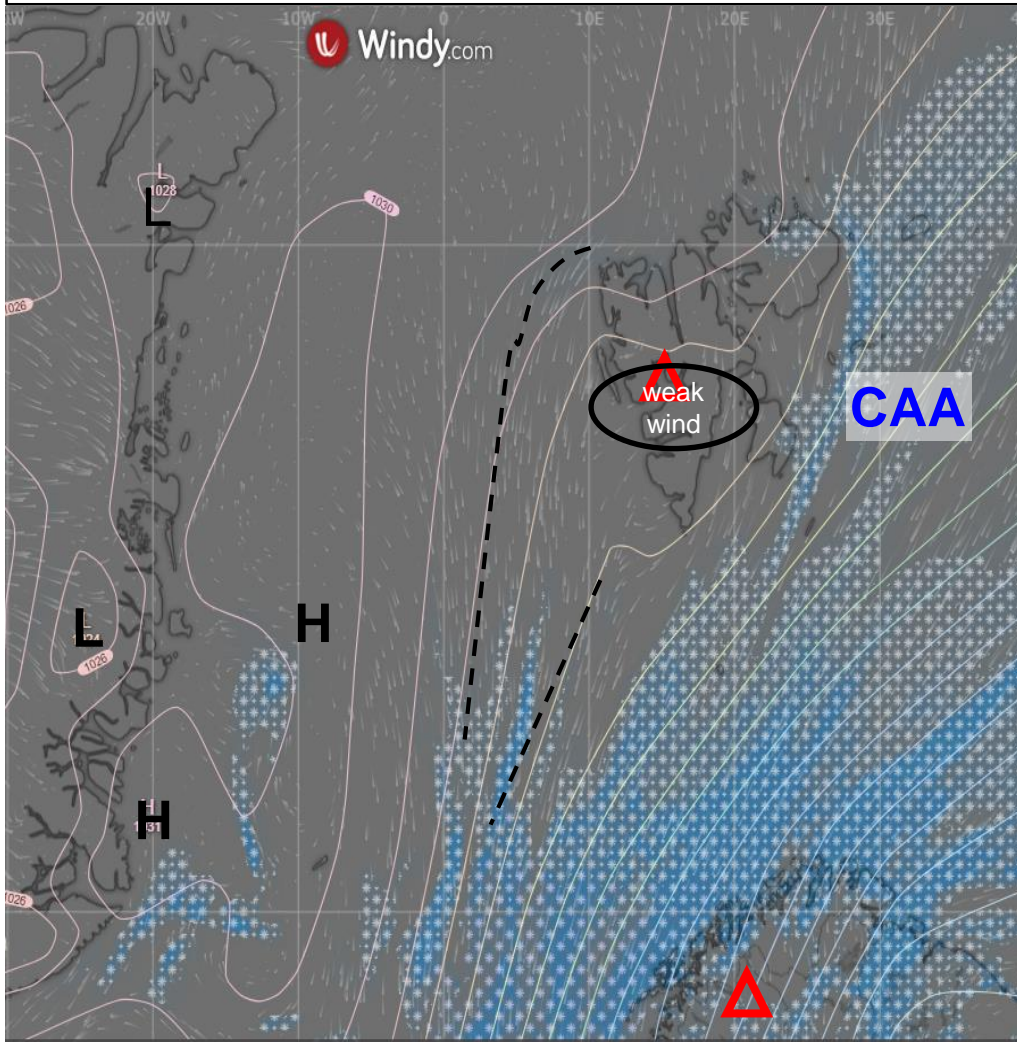


ICON

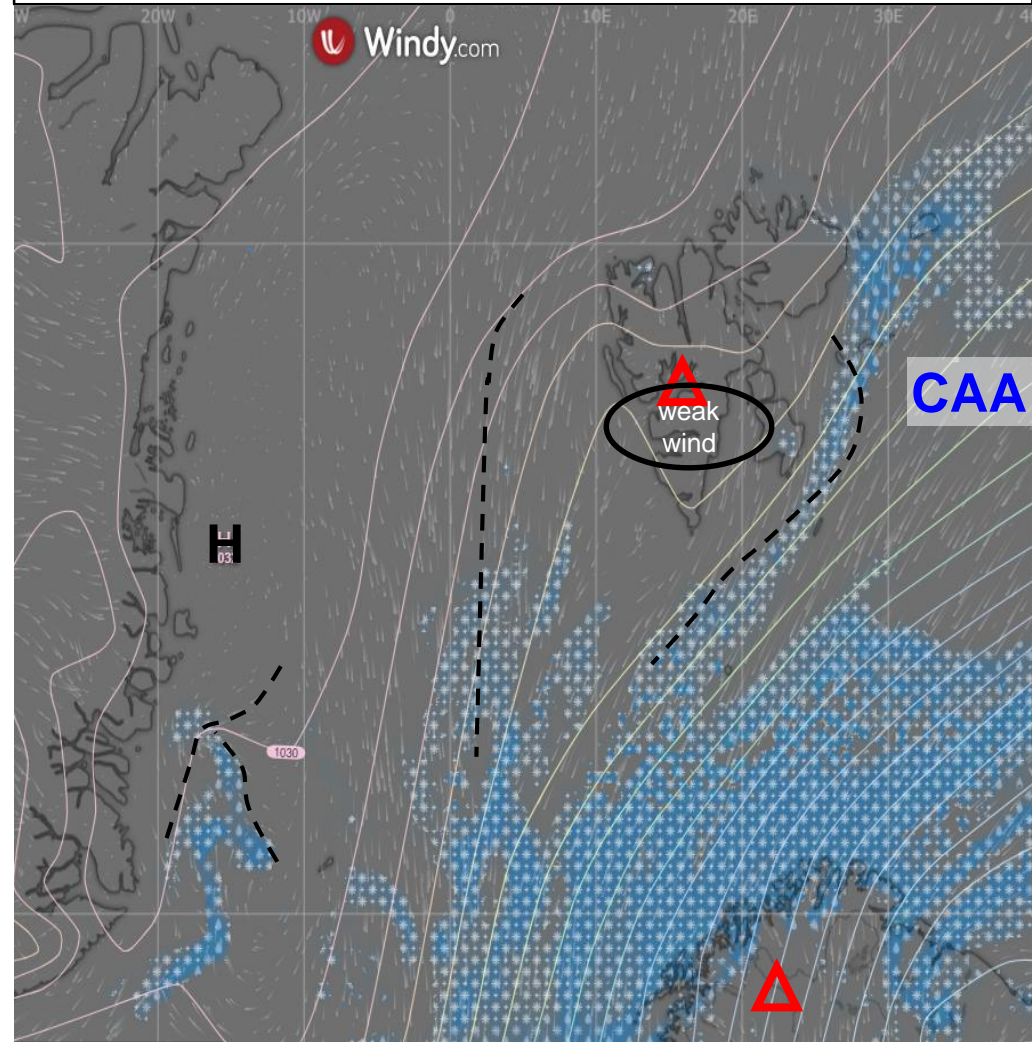


Wednesday, 2022-03-30 12 UTC (+60h)

ECMWF

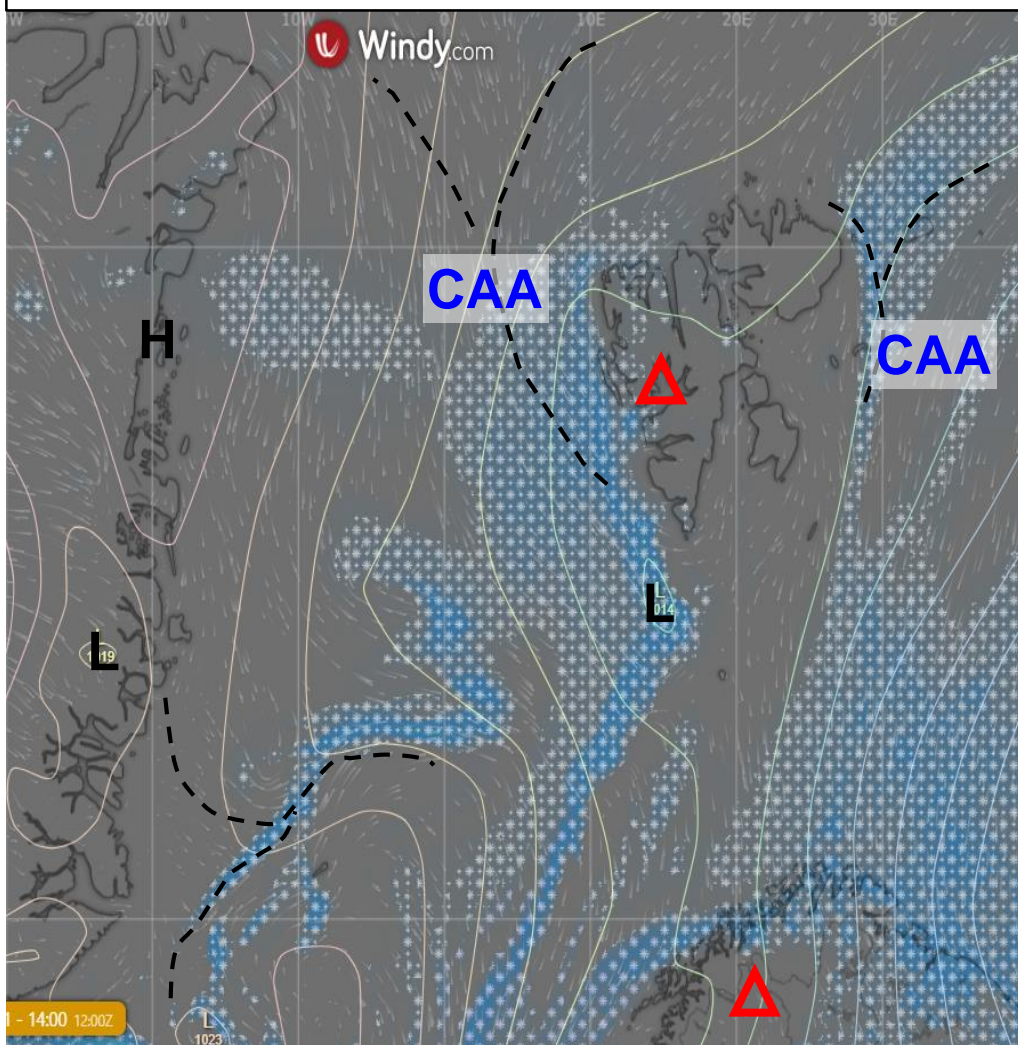


ICON

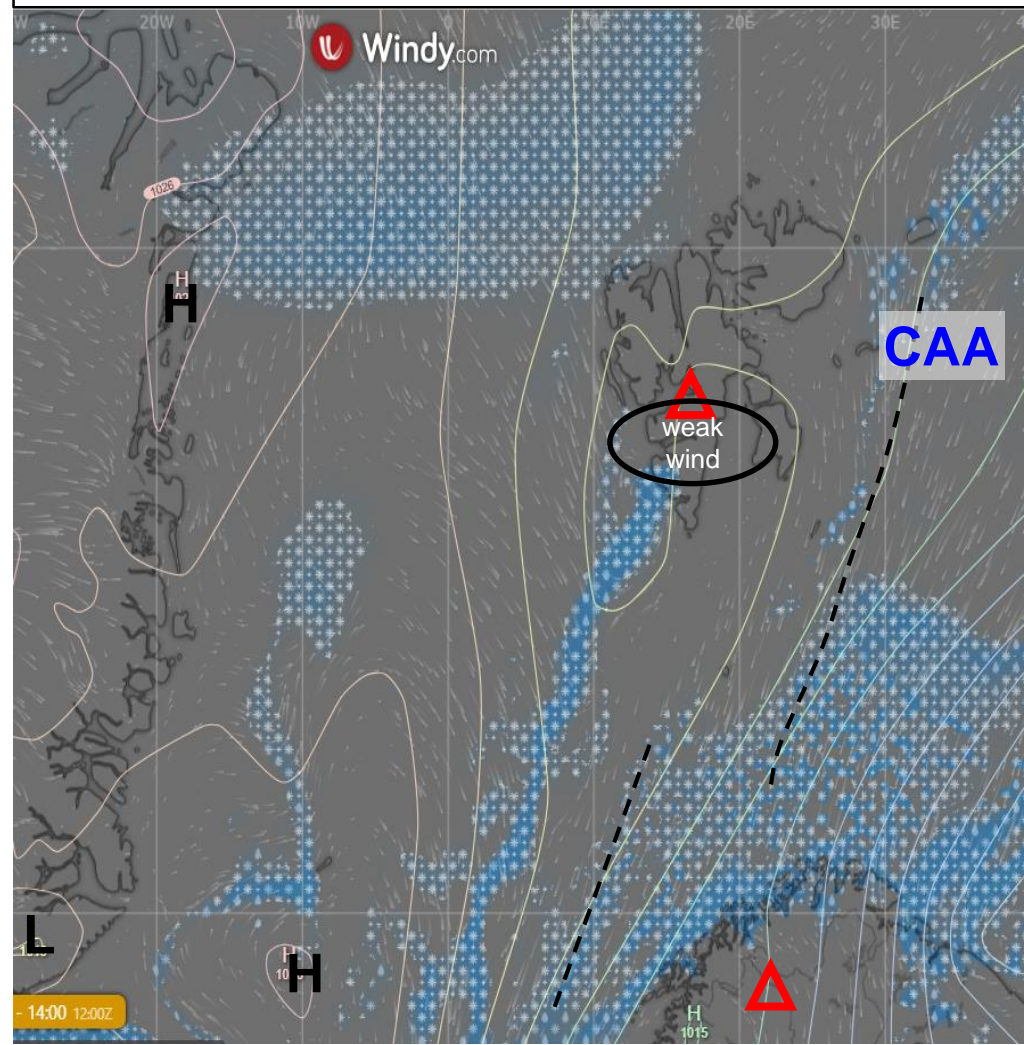


Thursday, 2022-03-31 12 UTC (+84h)

ECMWF

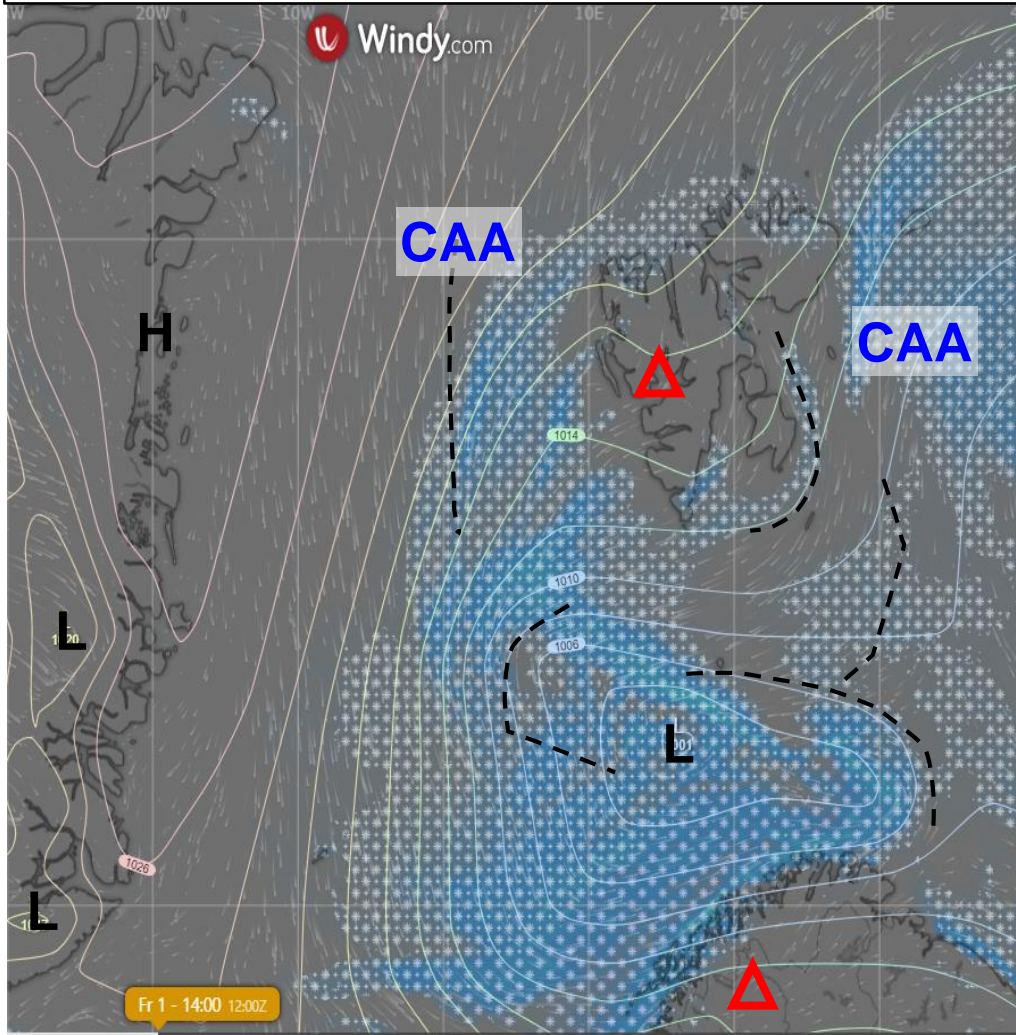


ICON

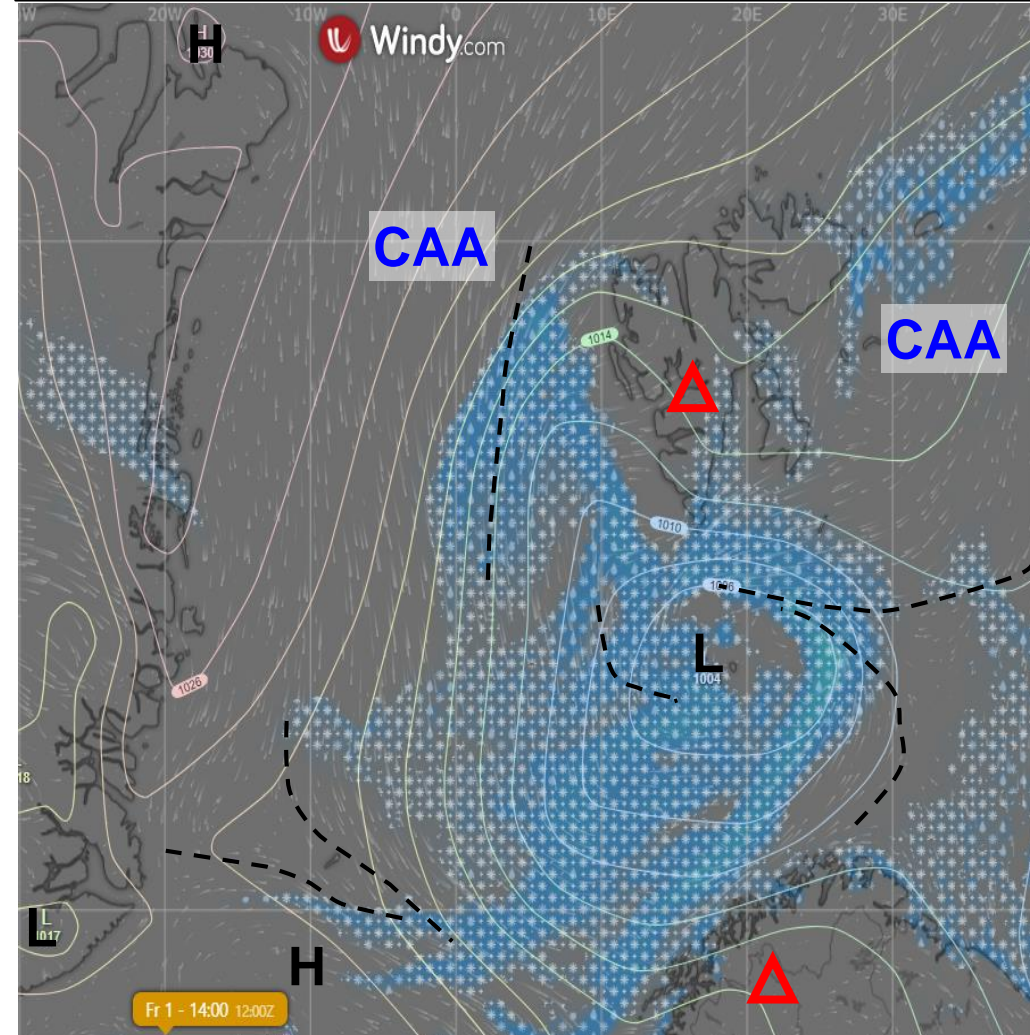


Friday, 2022-04-01 12 UTC (+108h)

ECMWF



ICON



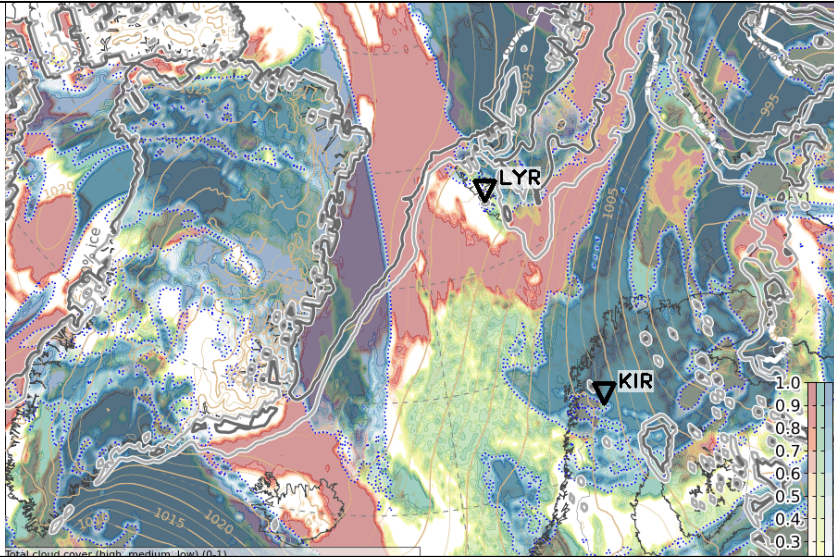
Cloud cover, CAO index, Airmasses, IVT

2022-03-17 00 UTC: 36 – 108h

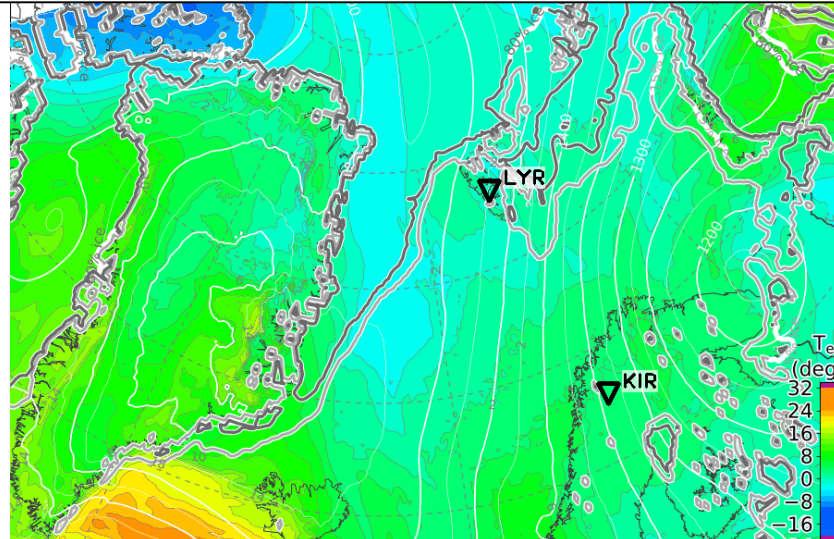
Cloud cover & 850hPa θ_e & CAO & IVT

Tuesday, 2022-03-29 12 UTC (+36)

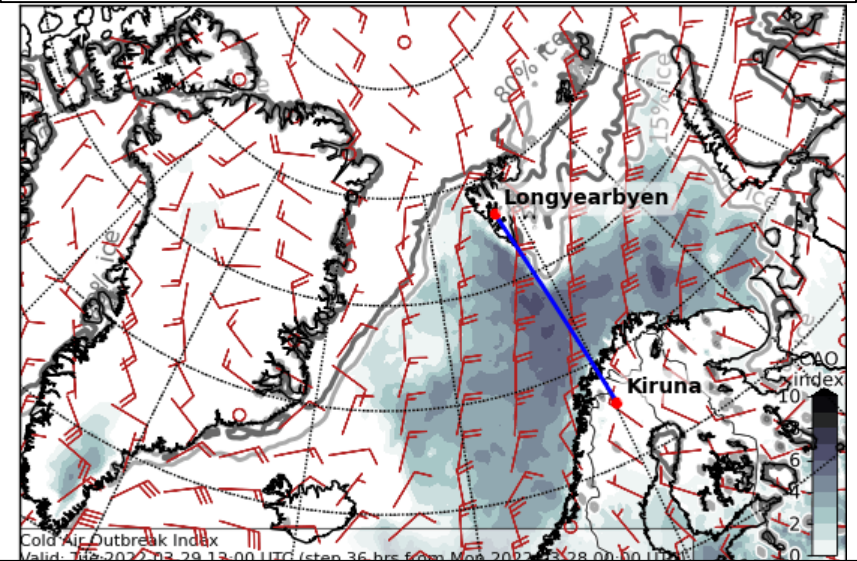
Total Cloud Cover



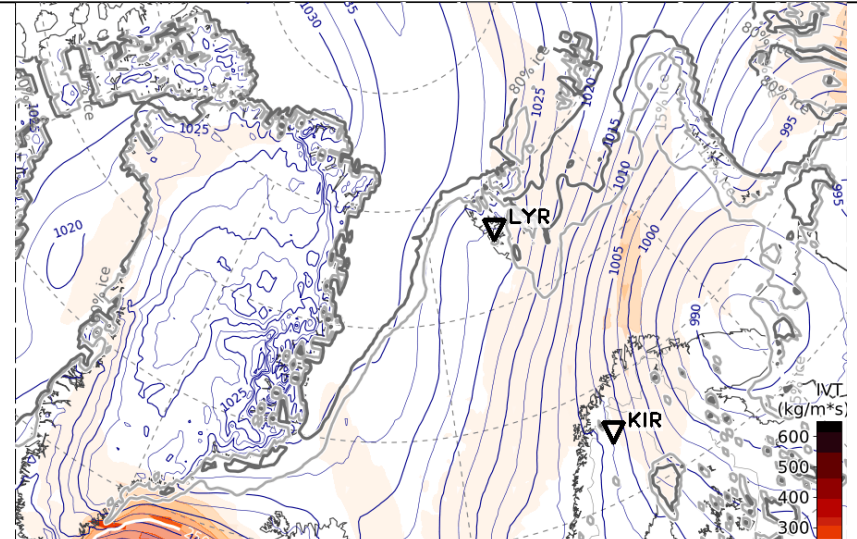
850 hPa Equ. pot. Temperature



CAO Index

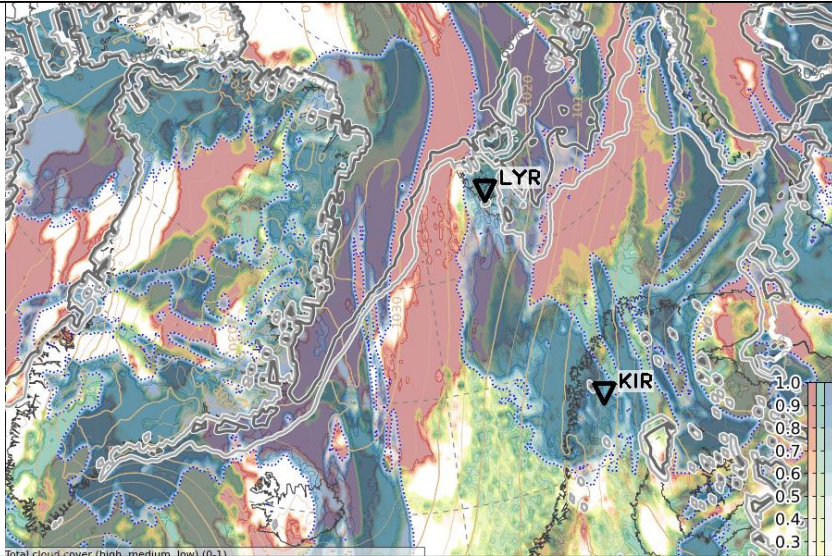


Integrated Water Vapor Transport

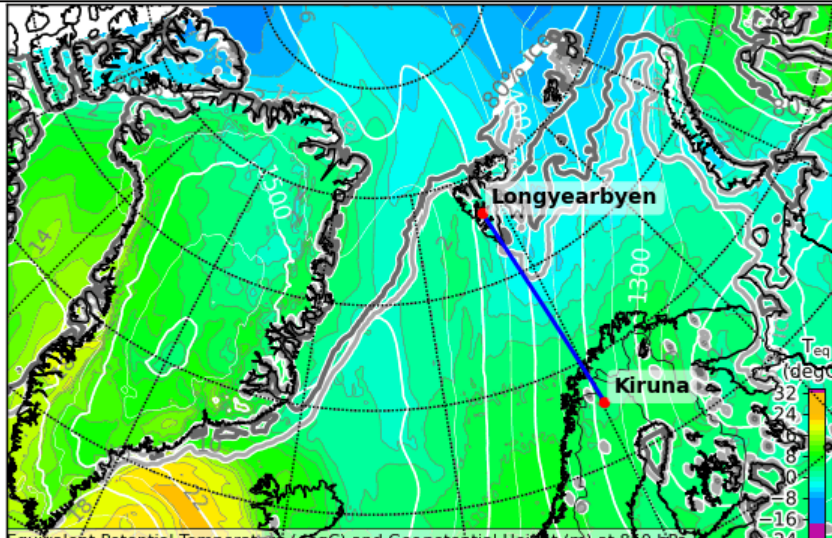


Wednesday, 2022-03-30 12 UTC (+60)

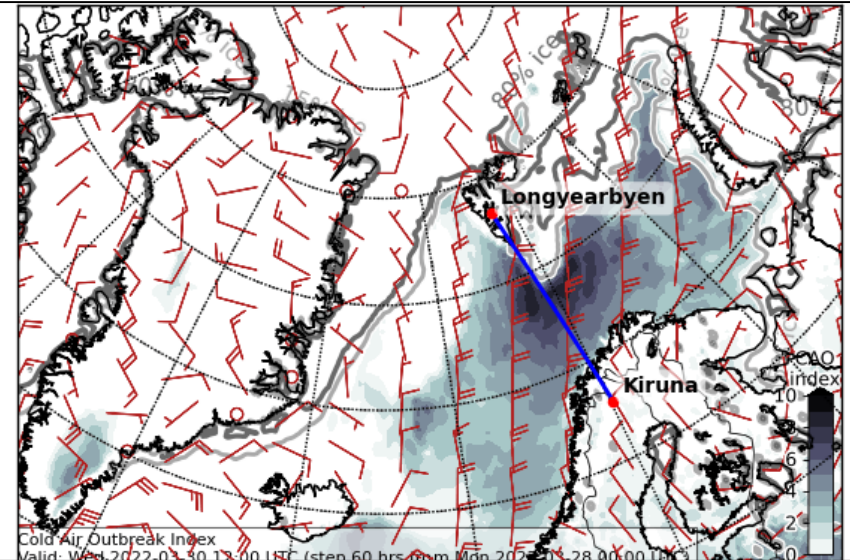
Total Cloud Cover



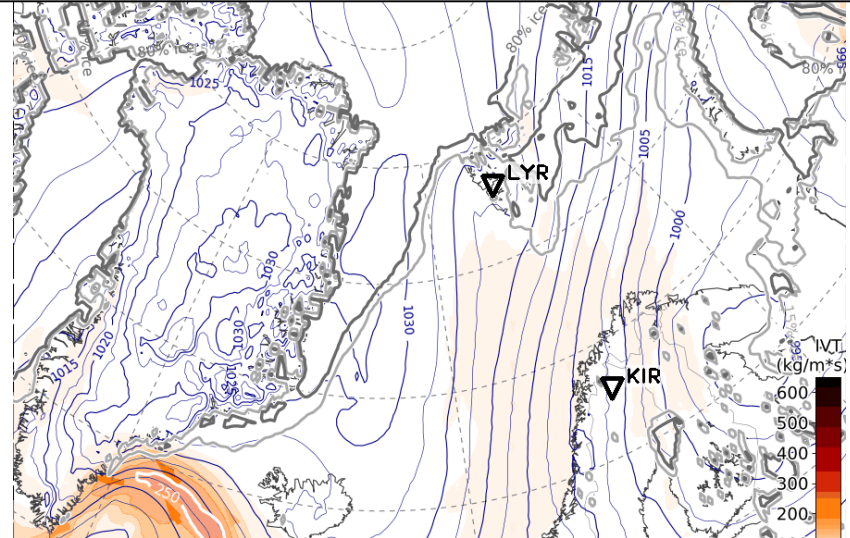
850 hPa Equ. pot. Temperature



CAO Index

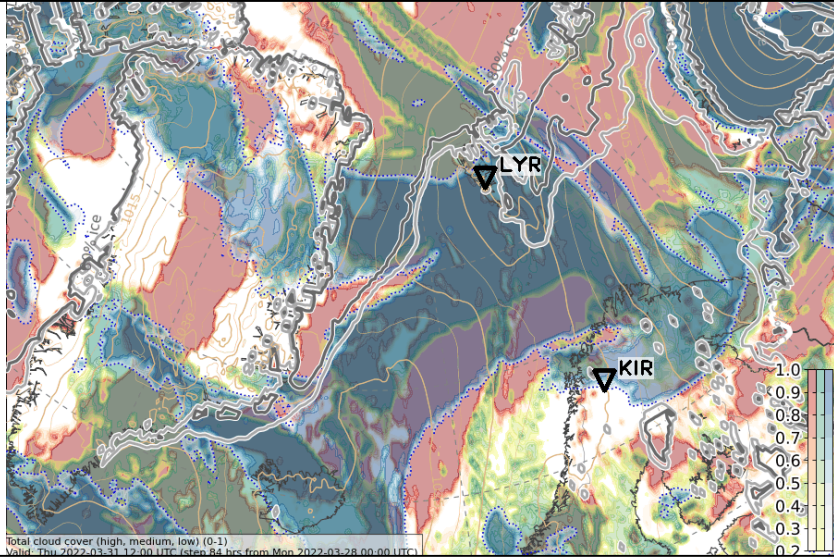


Integrated Water Vapor Transport

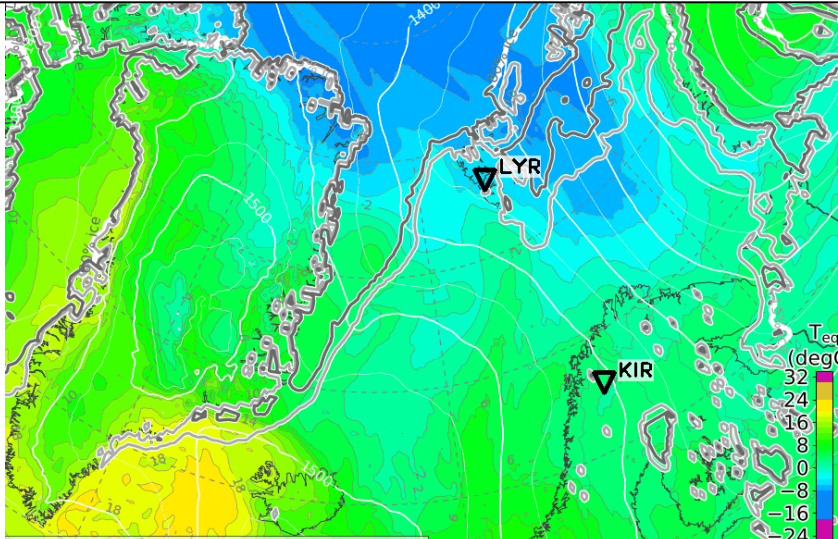


Thursday, 2022-03-31 12 UTC (+84)

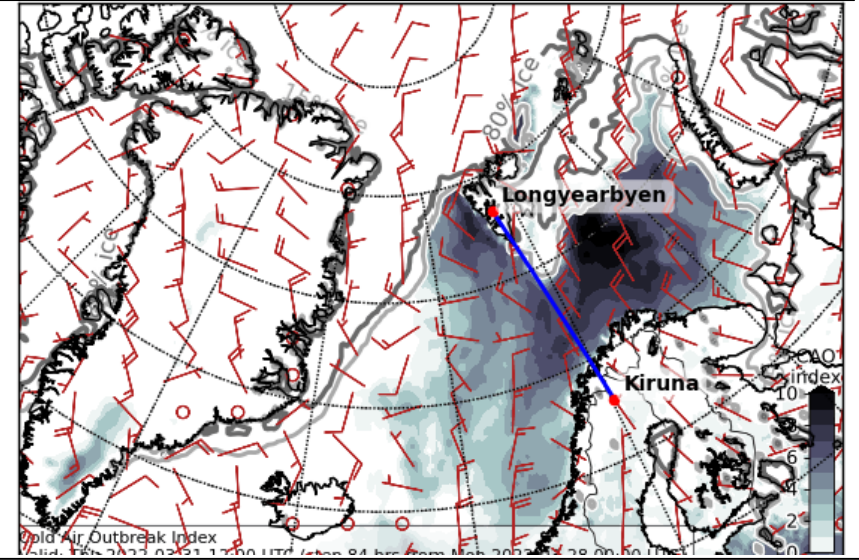
Total Cloud Cover



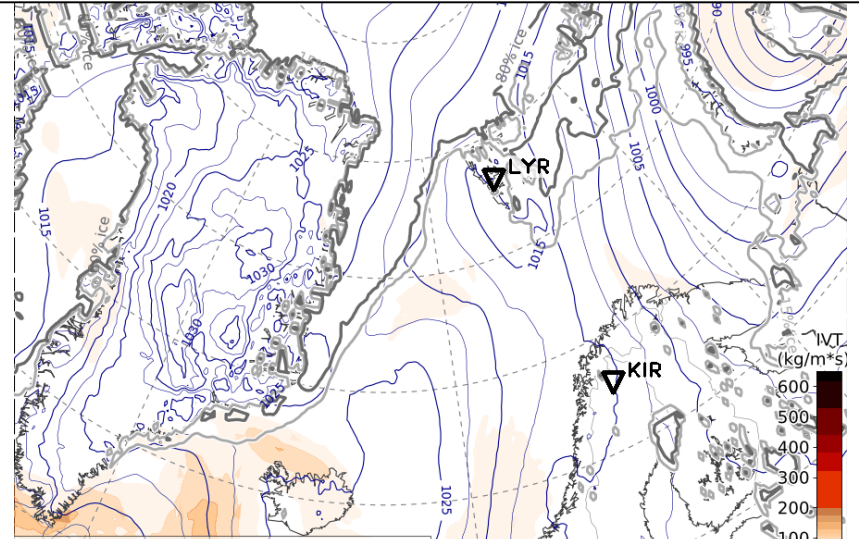
850 hPa Equ. pot. Temperature



CAO Index

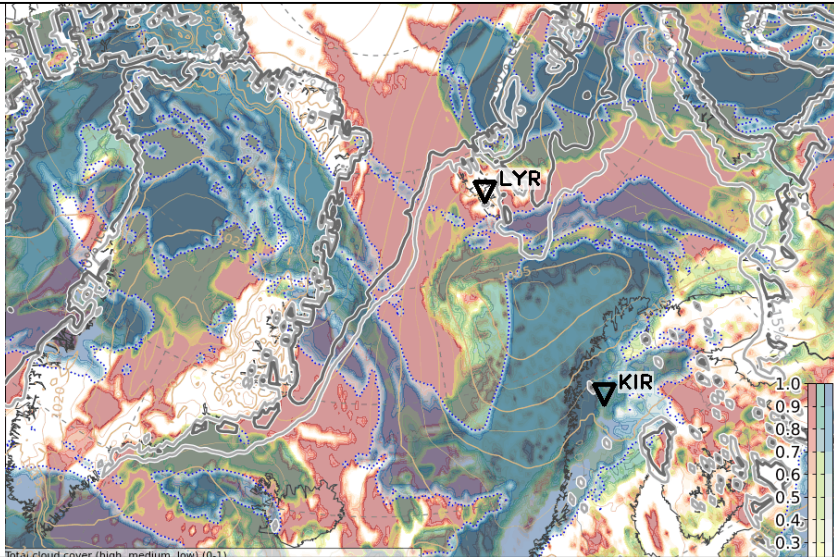


Integrated Water Vapor Transport

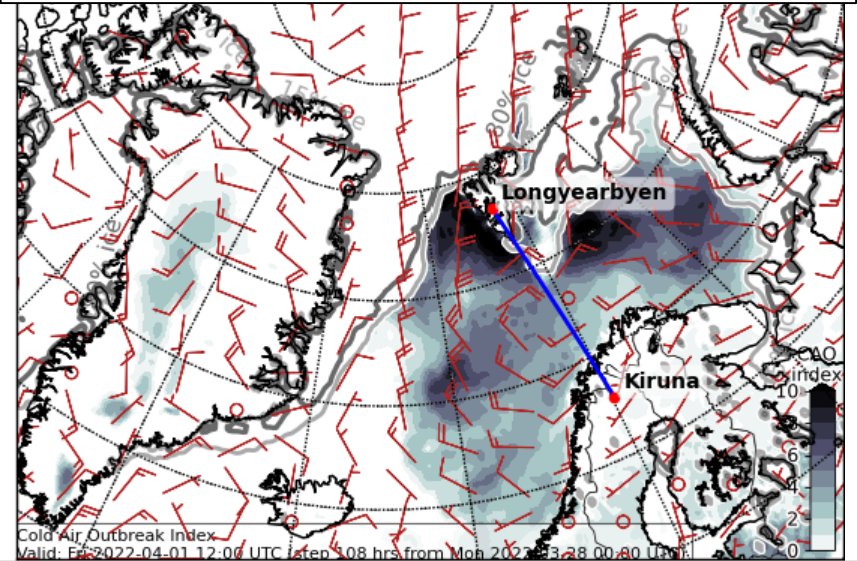


Friday, 2022-03-04 12 UTC (+108)

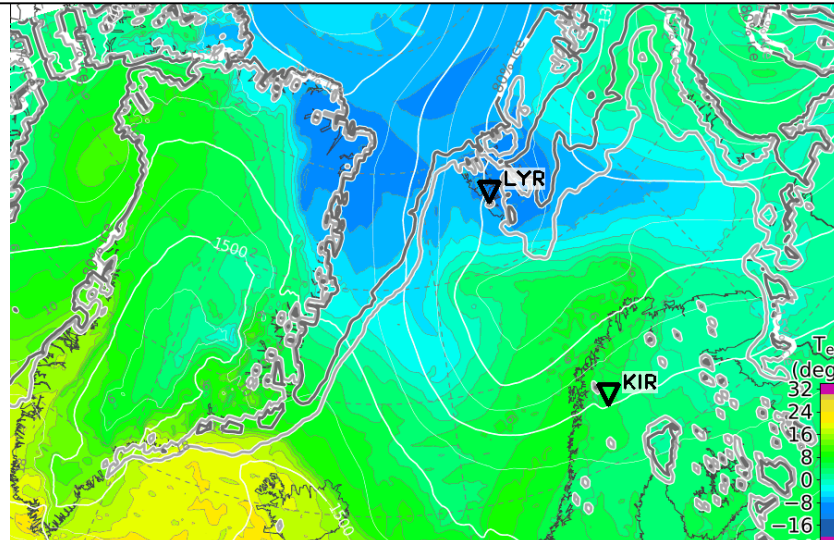
Total Cloud Cover



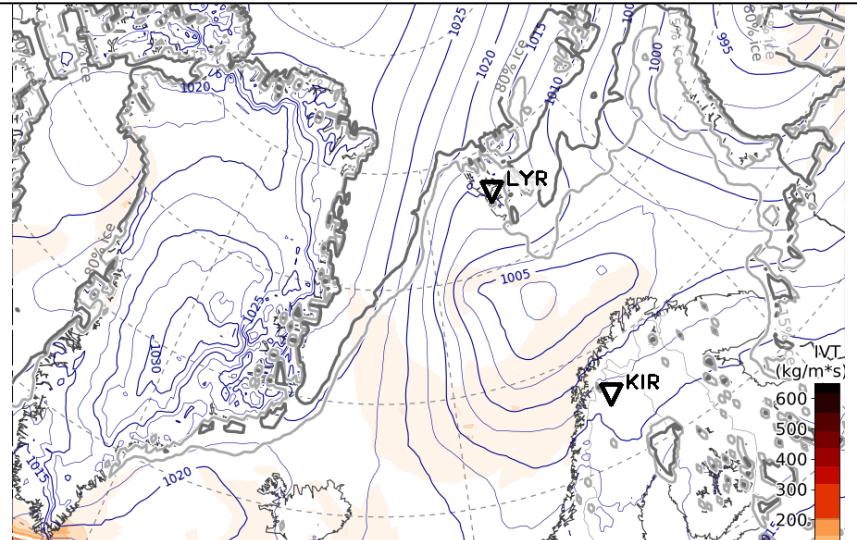
CAO Index



850 hPa Equ. pot. Temperature

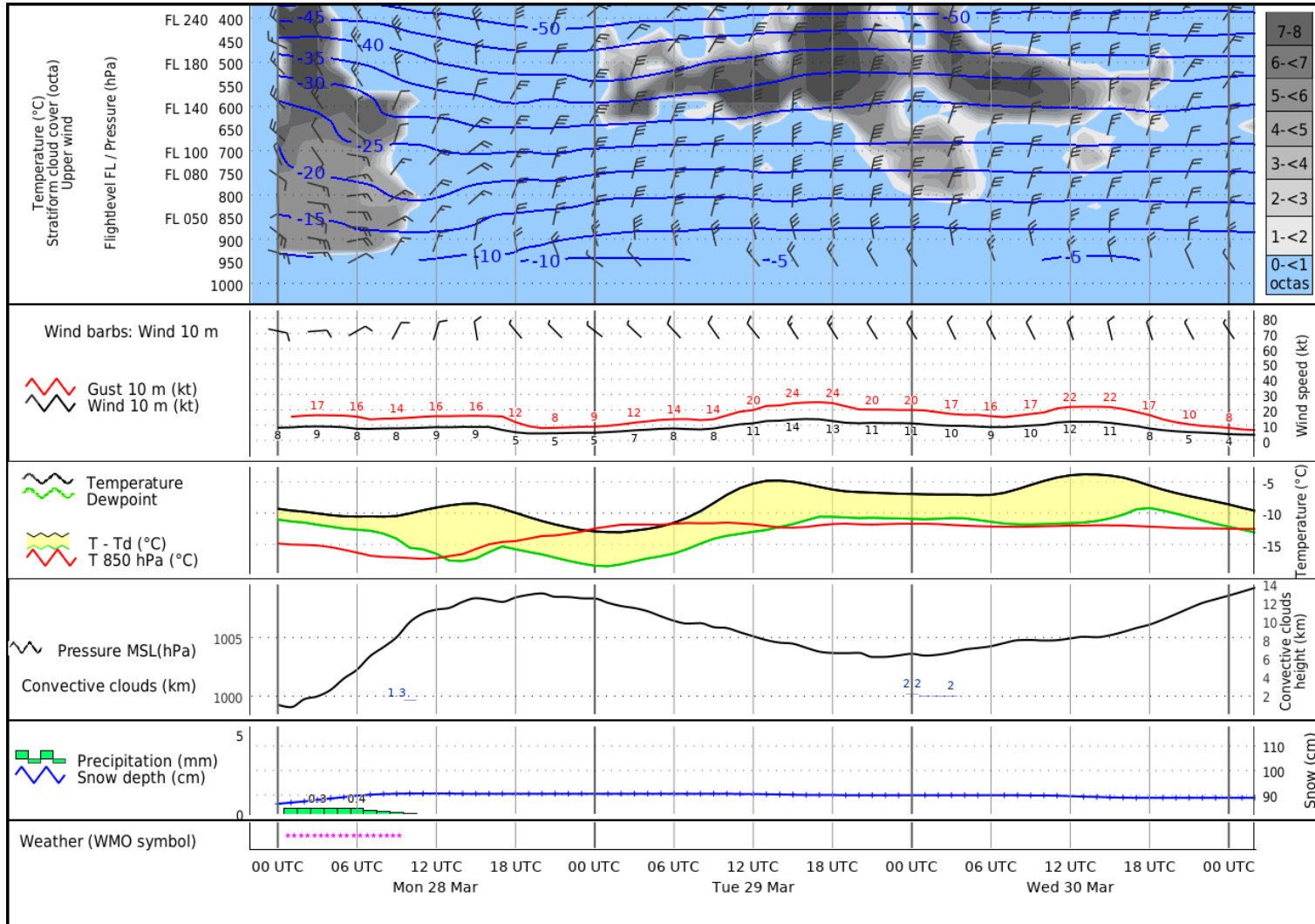


Integrated Water Vapor Transport



Airport meteograms & local weather at Svalbard

Kiruna



Meteorogram Kiruna (ESNQ), 460 m, LAT/LON: N 67°49' E 20°20'
 ICON-EU 2022-03-28 00 UTC, model height: 460 m



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 **13:50**
UTC

Wind **8** kt from the **East**

Temperature **-11°C**

Humidity **61%**

Pressure **1028** hPa

Visibility 10 km or more

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

Time: 16:26 (14:26 UTC)

Forecast

*Forecast valid from 28 at 12 UTC to 29 at 12
UTC*

Wind **9** kt from the **East**

Visibility 10 km or more

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

*Temporary
from 29 at 09 UTC to 29 at 12 UTC*

Wind **15** kt from the **Northeast**

TAF: ENSB 2812/2912 10009KT 9999
FEW025 TEMPO 2909/2912 04015KT

Summary

Summary Weather Briefing, 2022-03-28 17:00 LT

- **Tuesday, 2022-03-29**
 - high pressure system east of Greenland
 - calm wind conditions in LYR, more intense east and west of Svalbard
 - low-level clouds north west of Svalbard
- **Wednesday, 2022-03-30**
 - similar to Tuesday
 - high cloud advection over Fram Strait, also over Svalbard
 - cold air advected (origin: Russia and Alaska)
- **Thursday, 2022-03-31**
 - high and mid-level clouds over Svalbard
 - formation of low pressure system south west of Svalbard → will intensify and will remain until Sunday
 - unfavorable flight conditions at LYR
 - CAA more pronounced in Kara sea compared to CAA over Fram Strait
- **Friday, 2022-04-01**
 - high cloud cover over Svalbard dissolve, still mid-level clouds
 - intensification of CAAs (Fram Strait more to south, Kara Sea to east)