

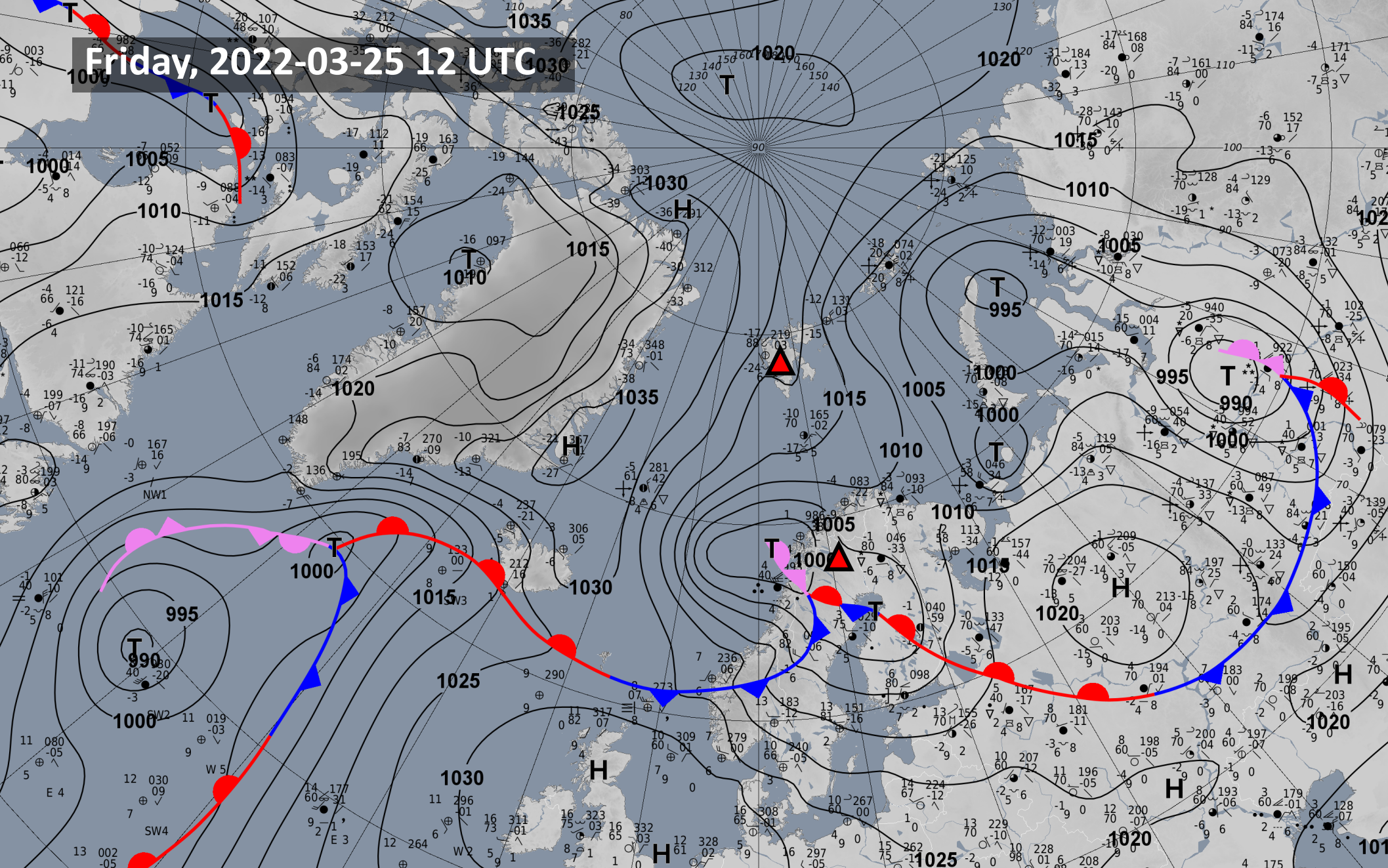
Weather briefing

HALO-(AC)³

Friday, 2022-03-25, 17:00 LT

Surface Analysis
Friday, 2022-03-25 12 UTC
DWD

Friday, 2022-03-25 12 UTC



Surface wind development and precipitation

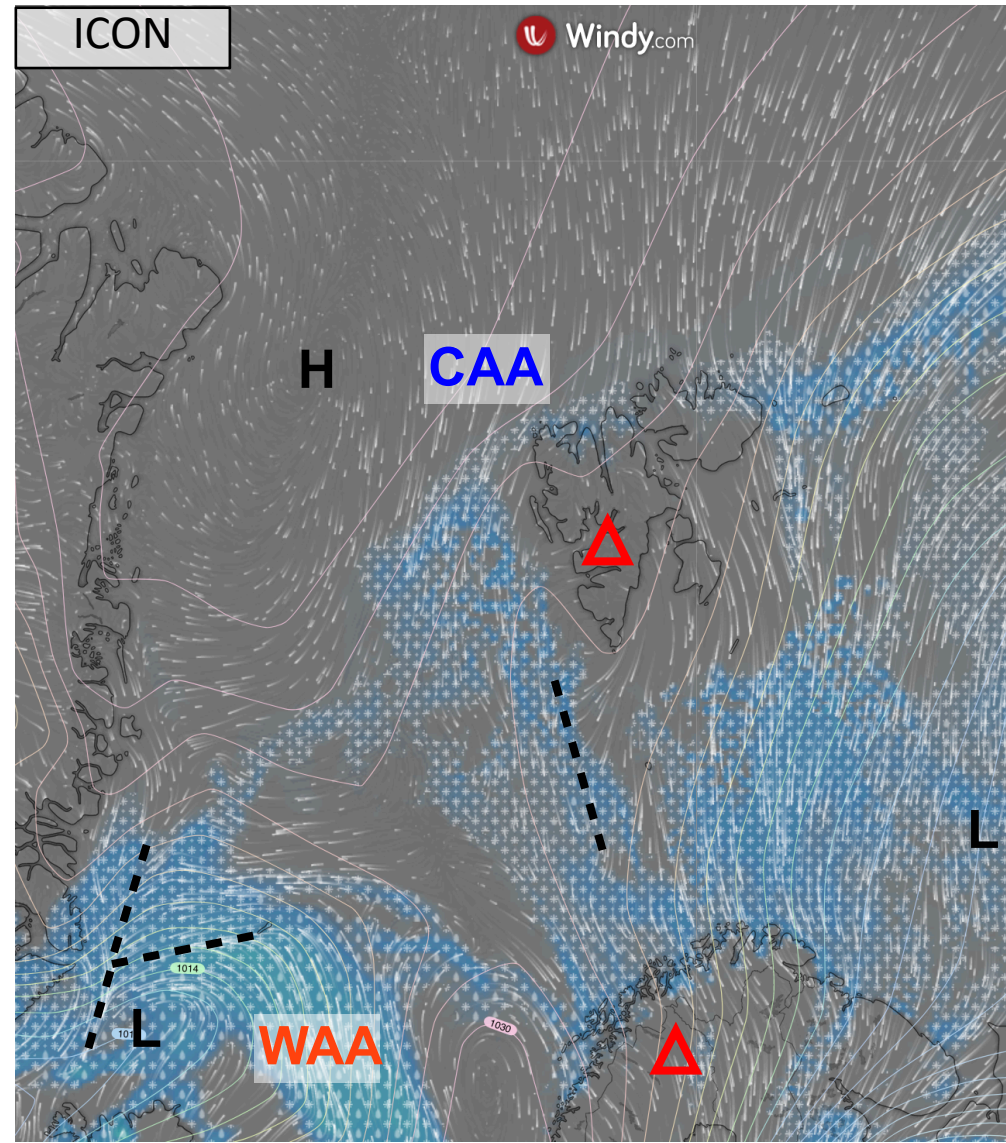
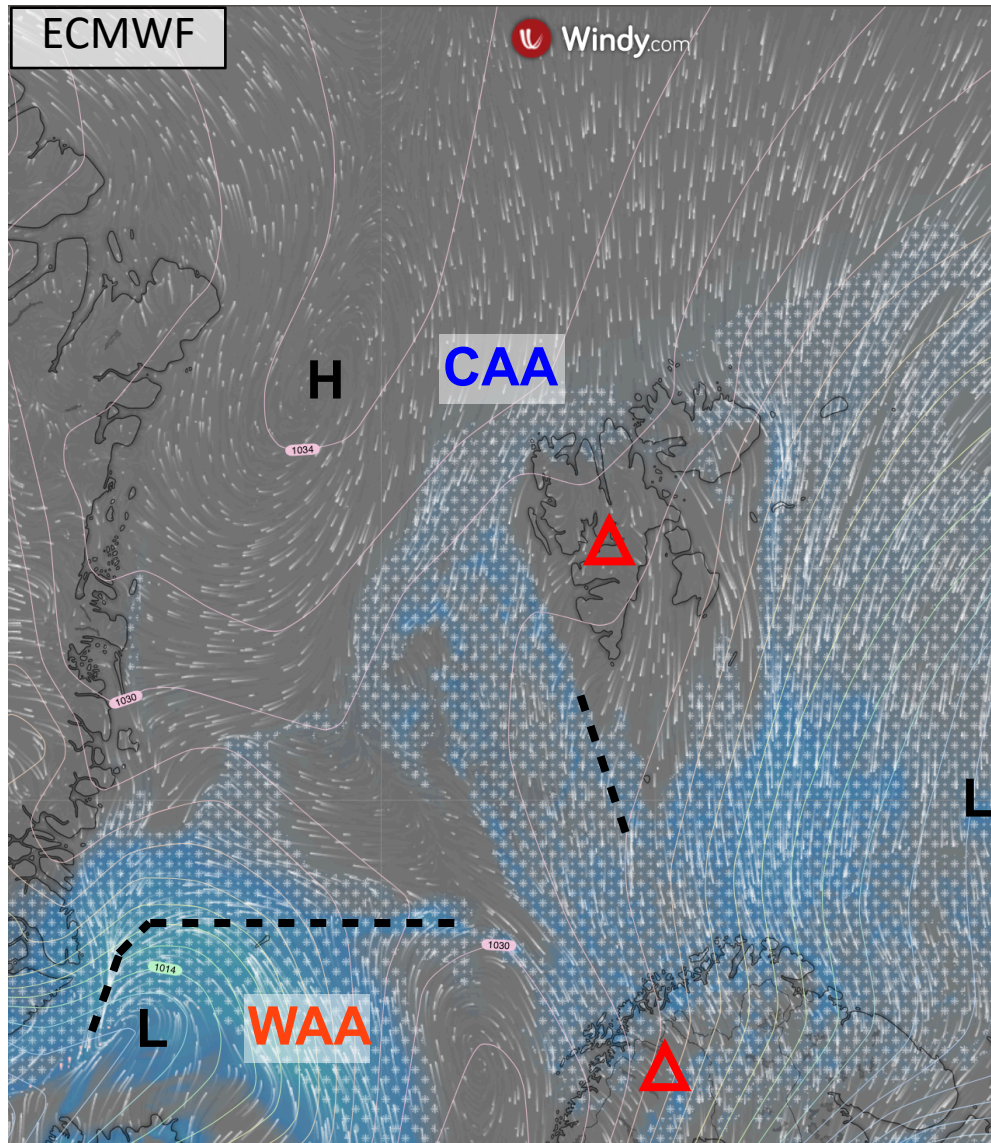
2022-03-25 00 UTC: 36 – 108h

ECMWF & ICON

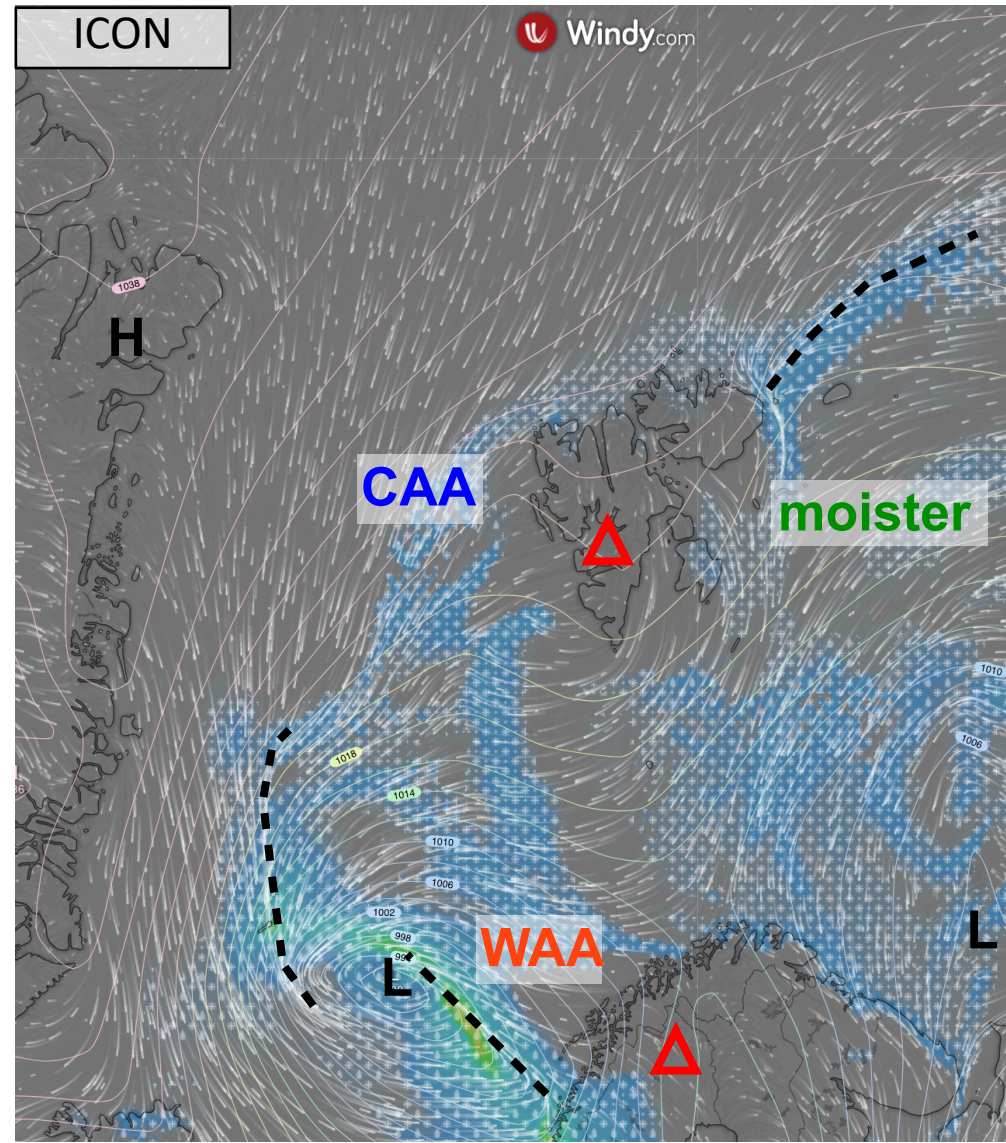
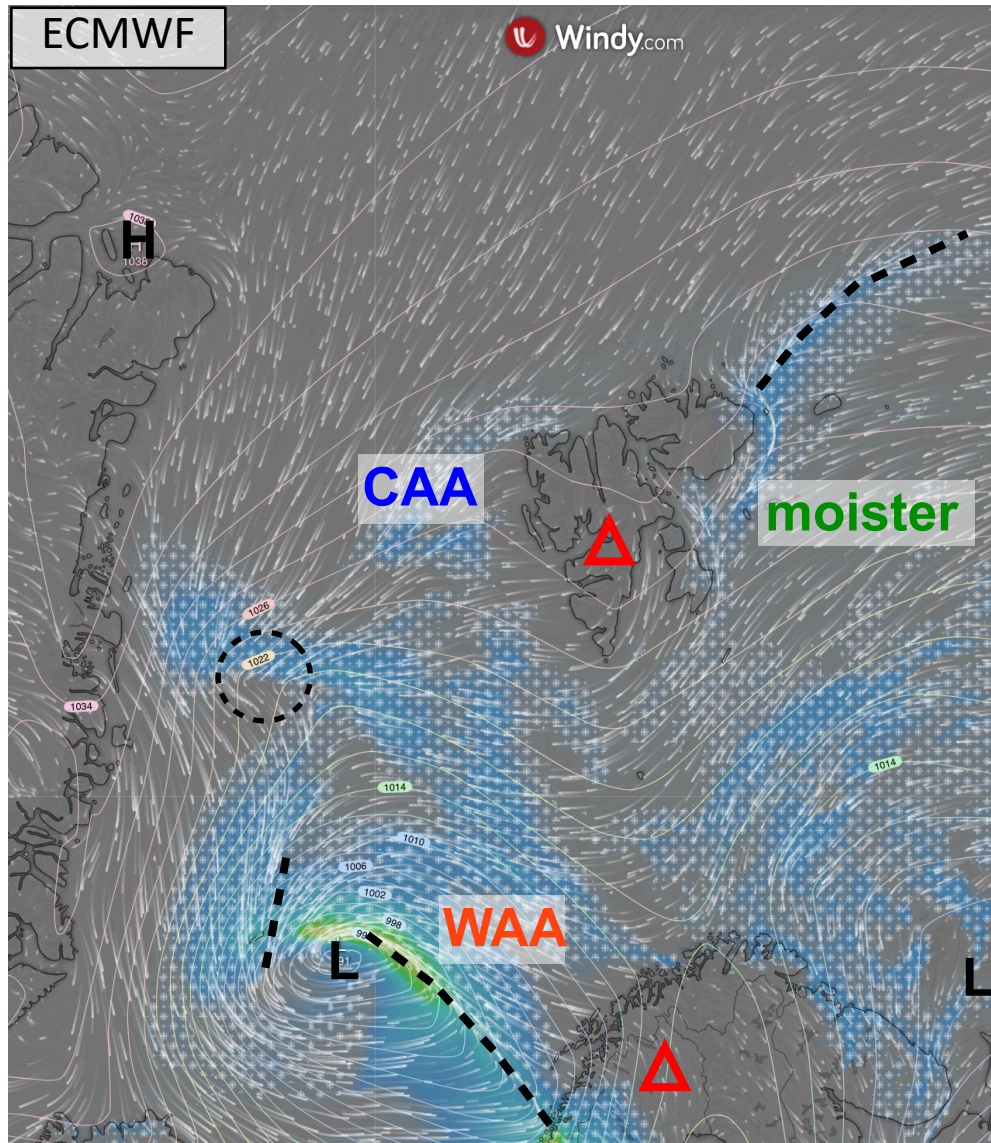
CAA: Cold Air Advection

WAA: Warm Air Advection

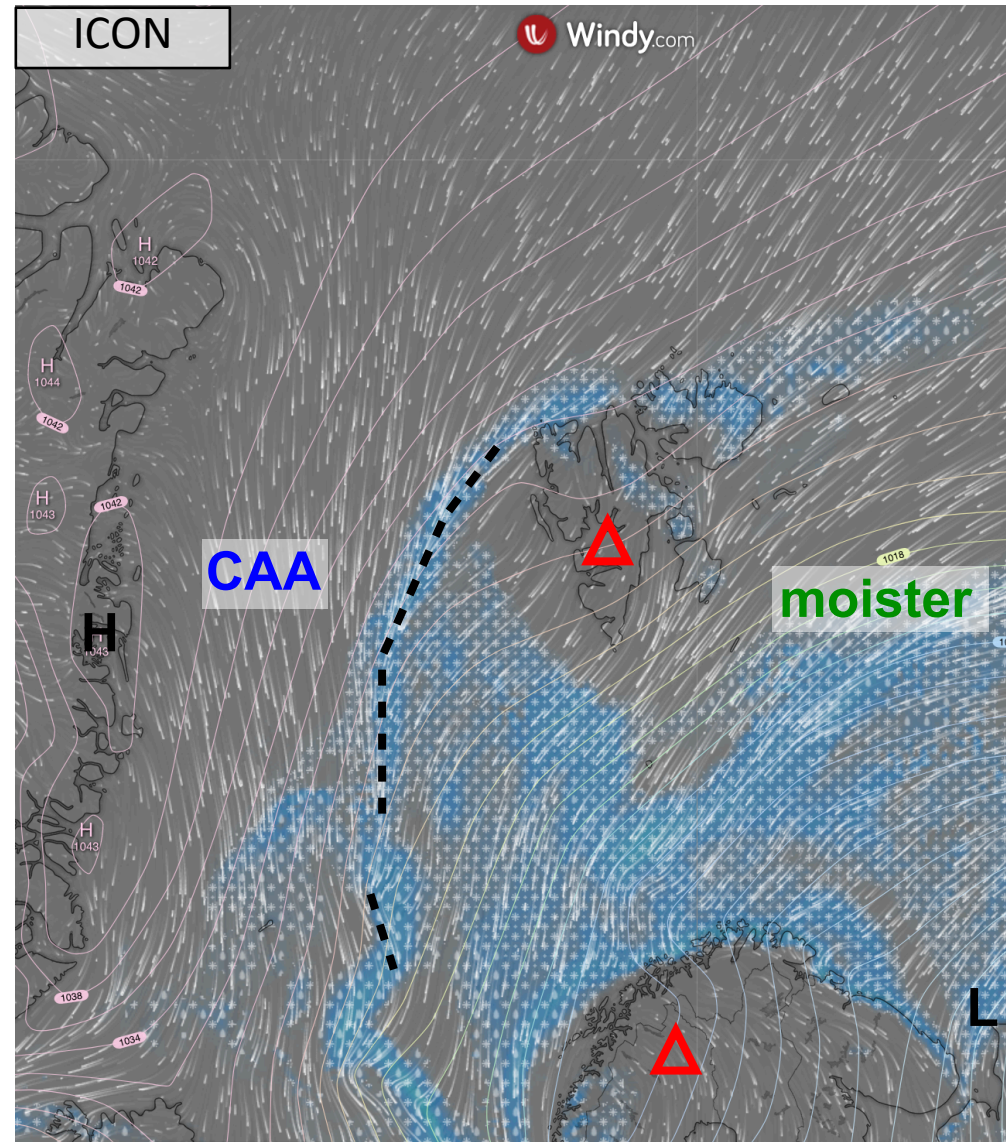
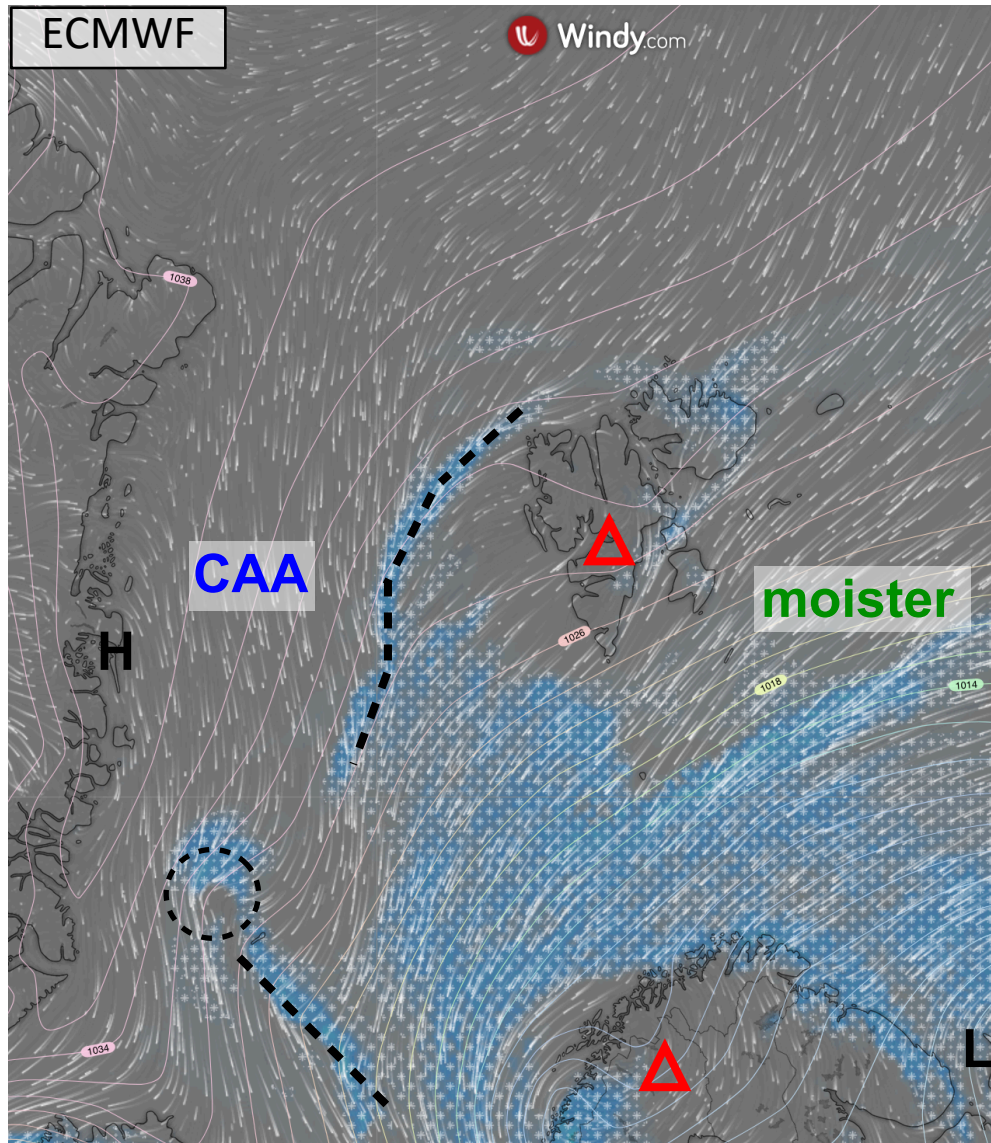
Saturday, 2022-03-26 12 UTC (+36h)



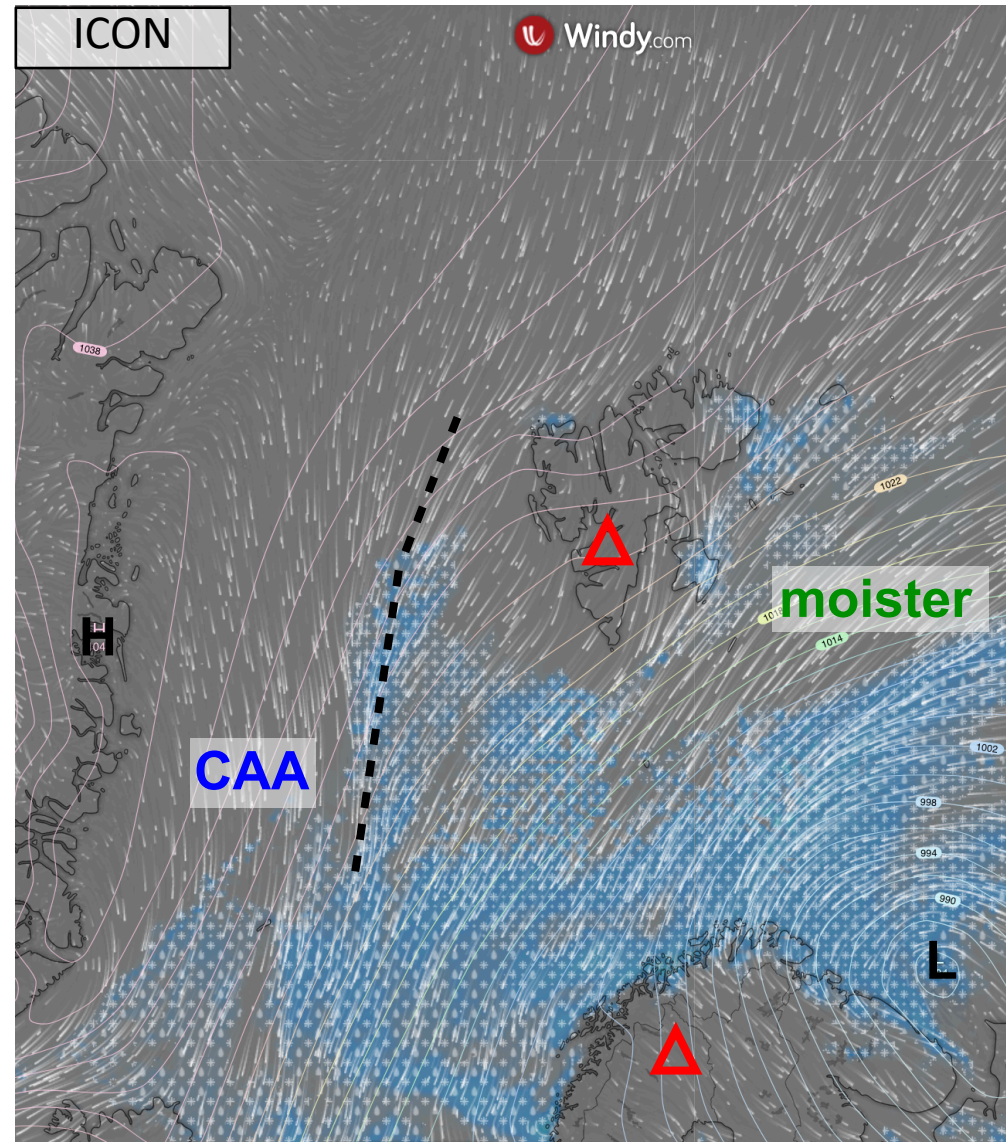
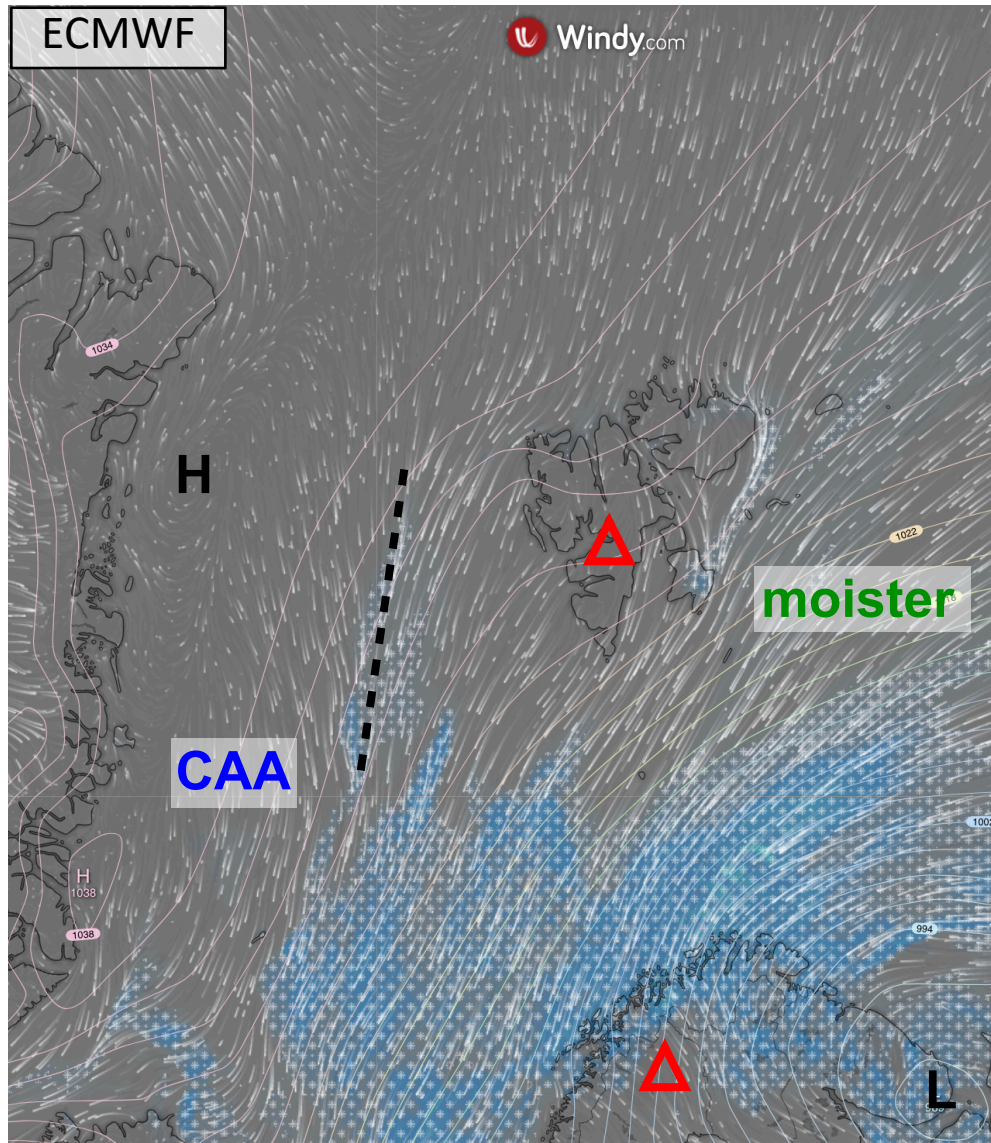
Sunday, 2022-03-27 12 UTC (+60h)



Monday, 2022-03-28 12 UTC (+84h)



Tuesday, 2022-03-29 12 UTC (+108h)



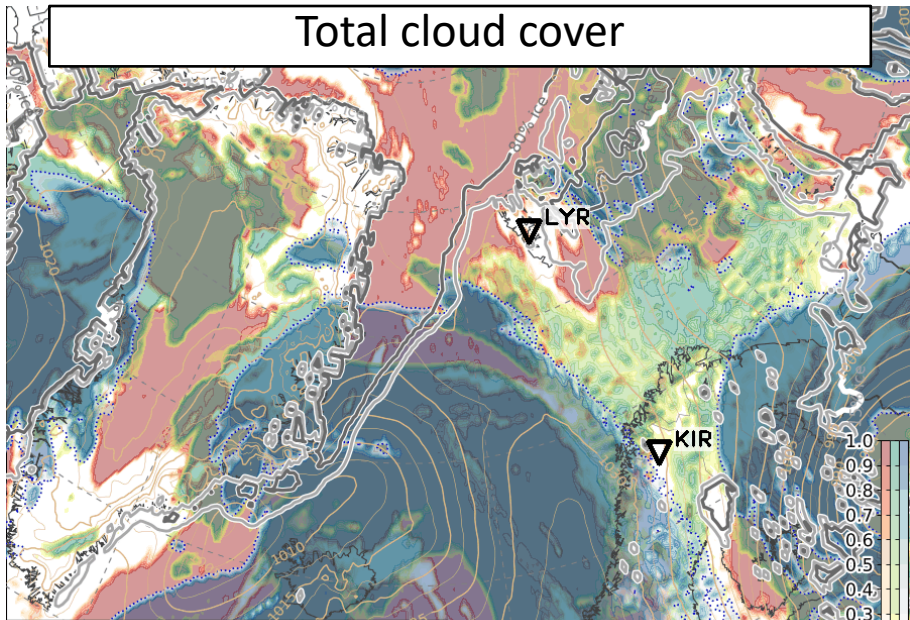
Cloud cover, CAO index, Airmasses, IVT

2022-03-25 00 UTC: 36 – 108h

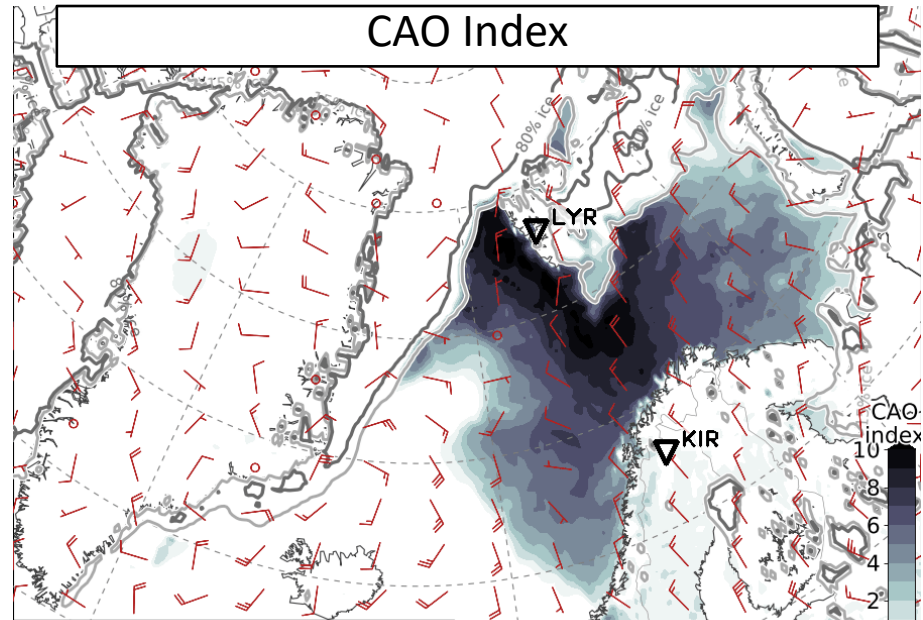
Cloud cover & 850hPa θ_e & CAO & IVT

Sat, 2022-03-26 12 UTC (+36h)

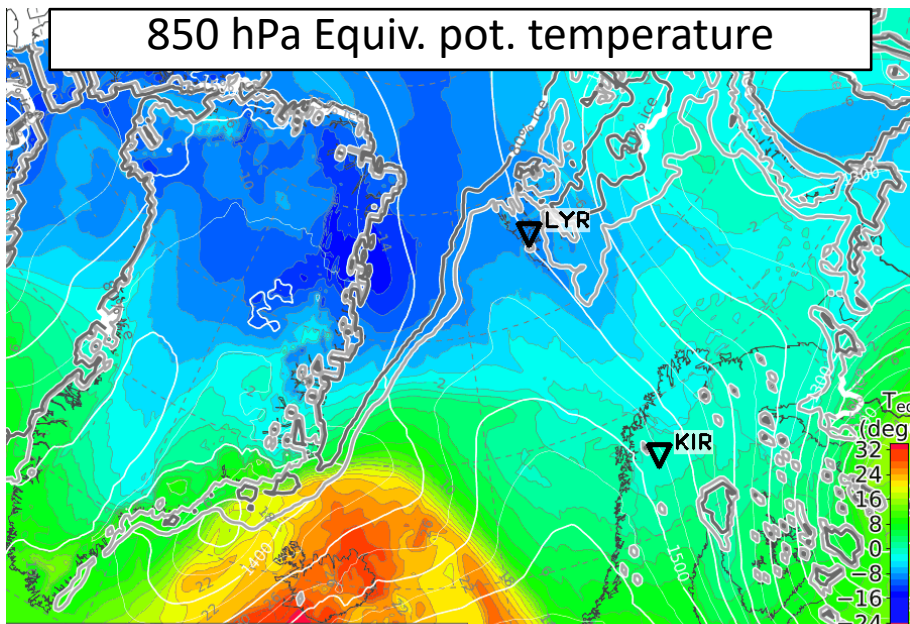
Total cloud cover



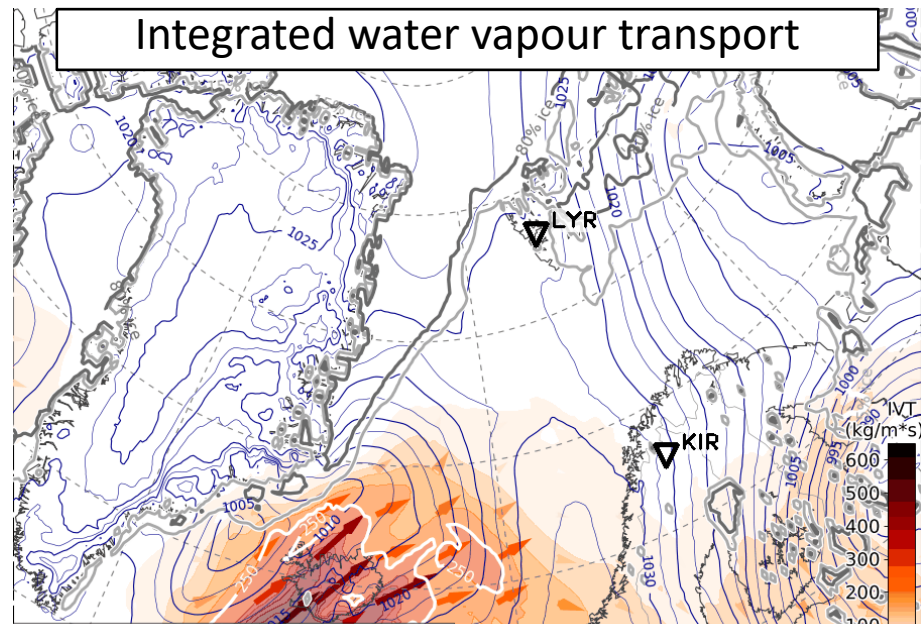
CAO Index



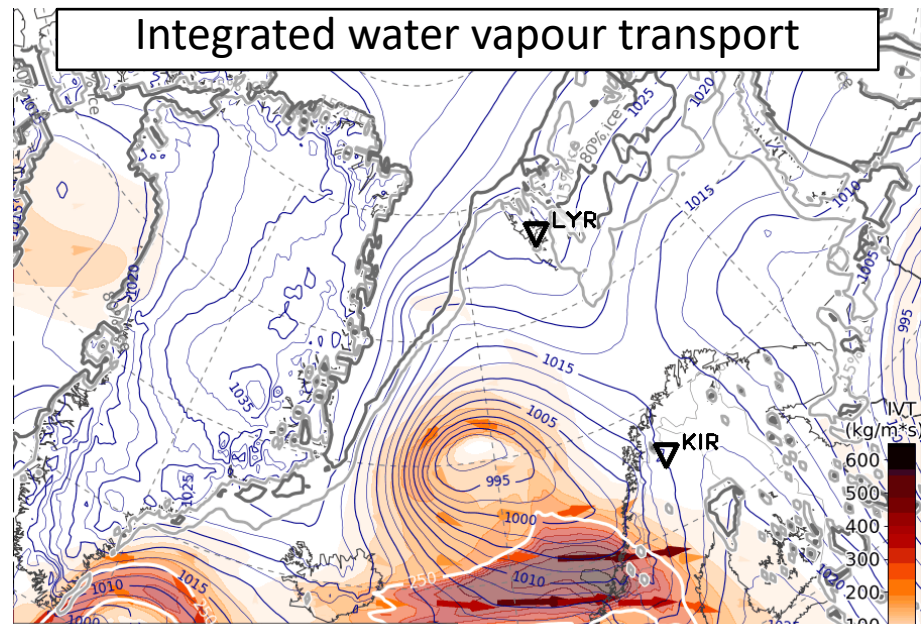
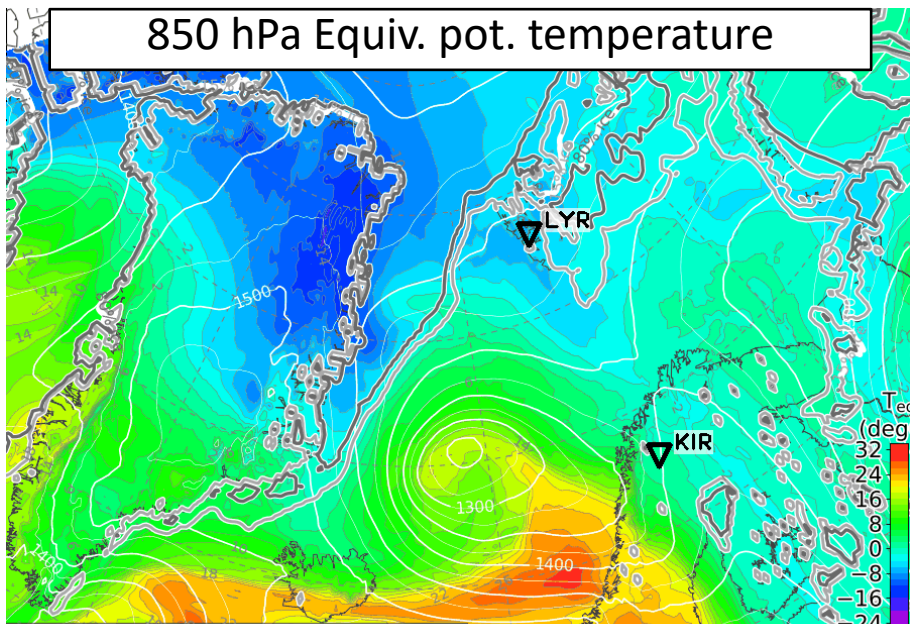
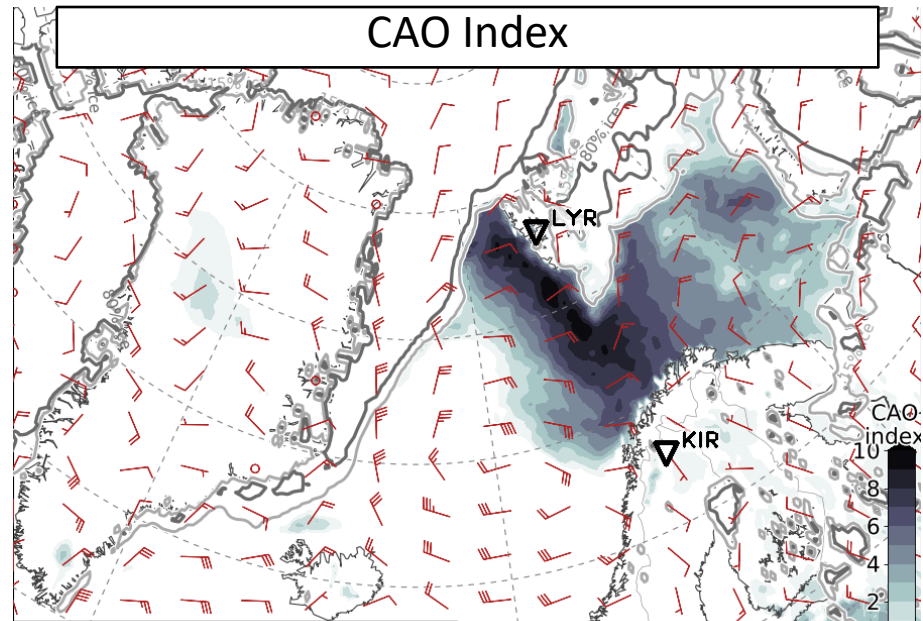
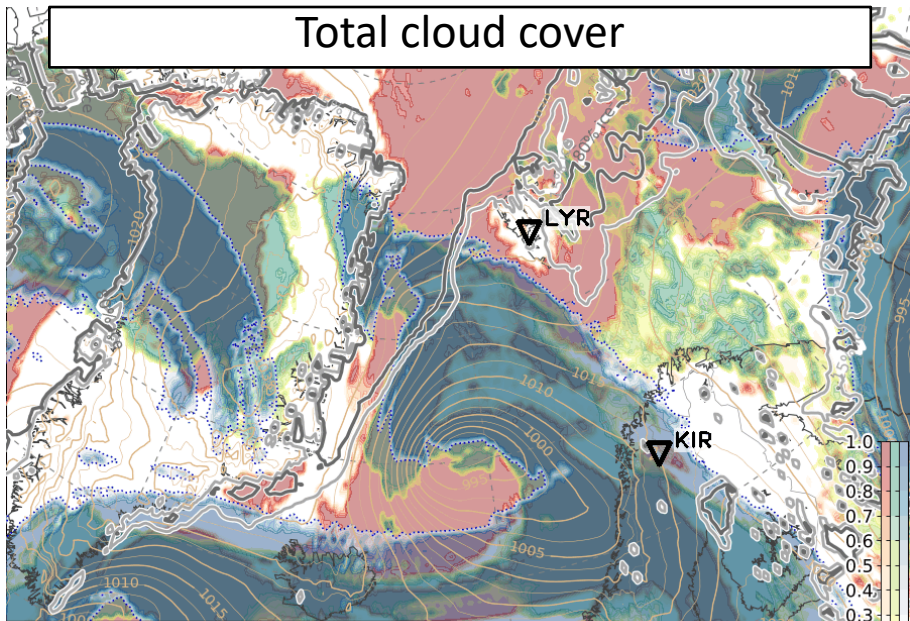
850 hPa Equiv. pot. temperature



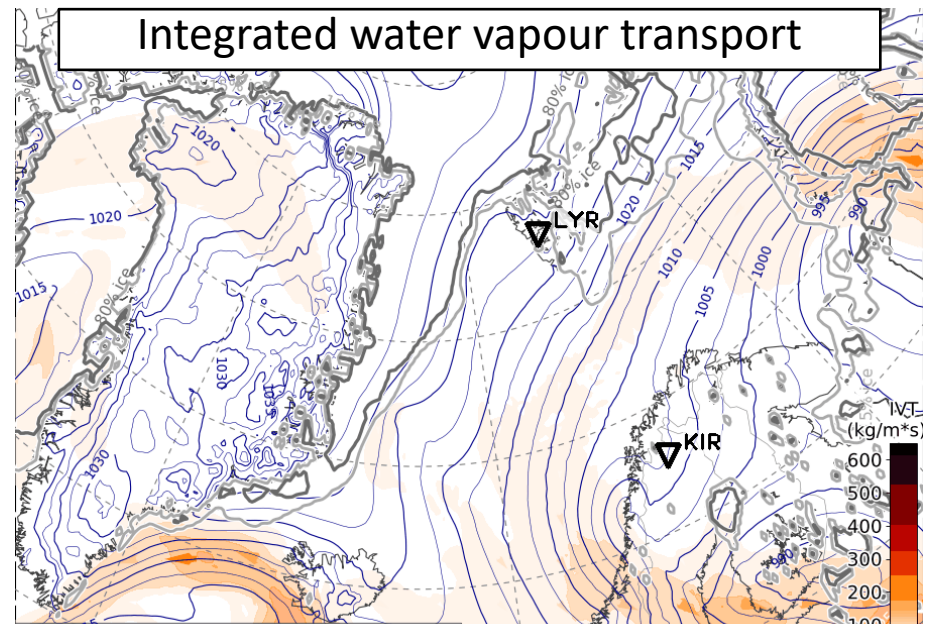
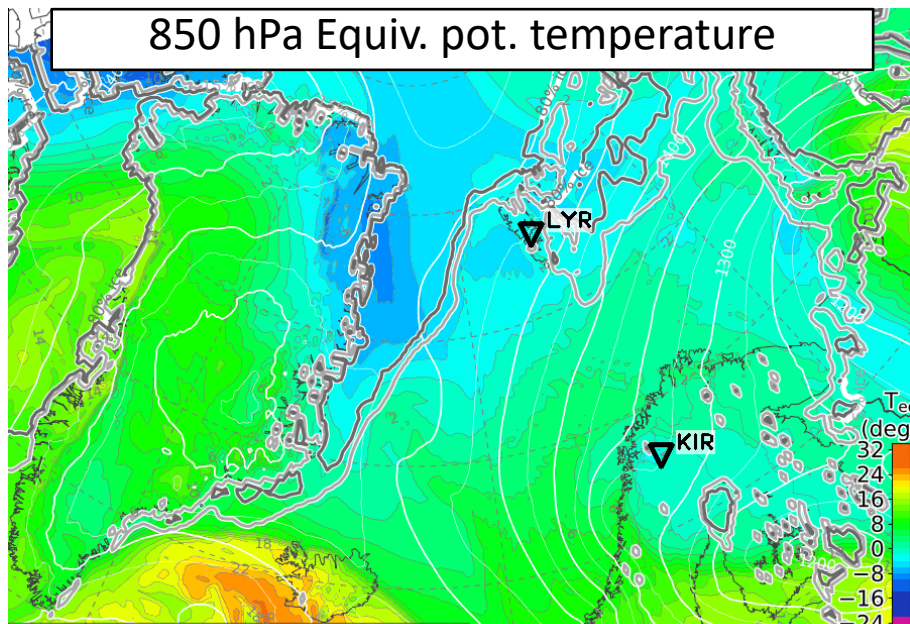
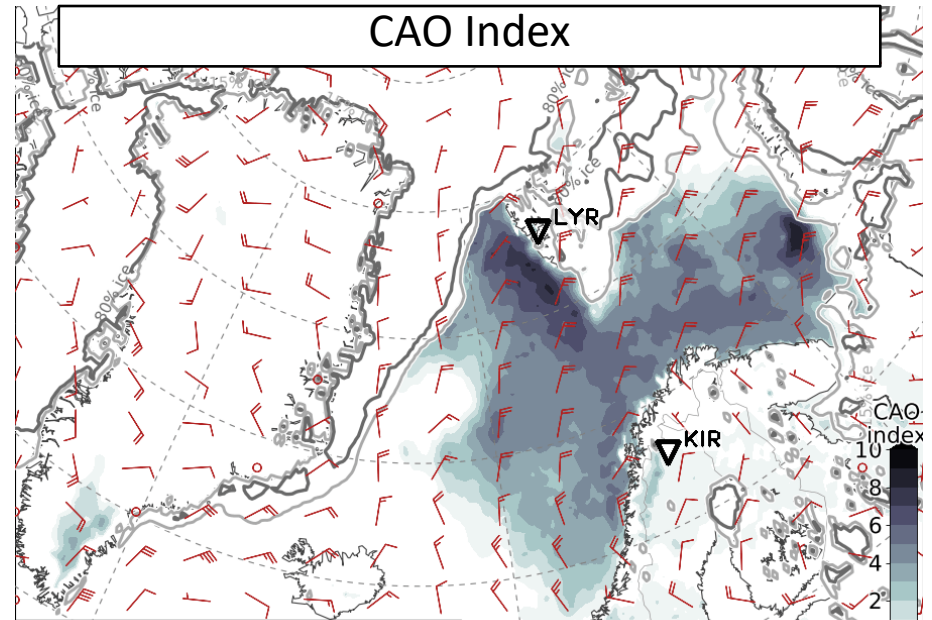
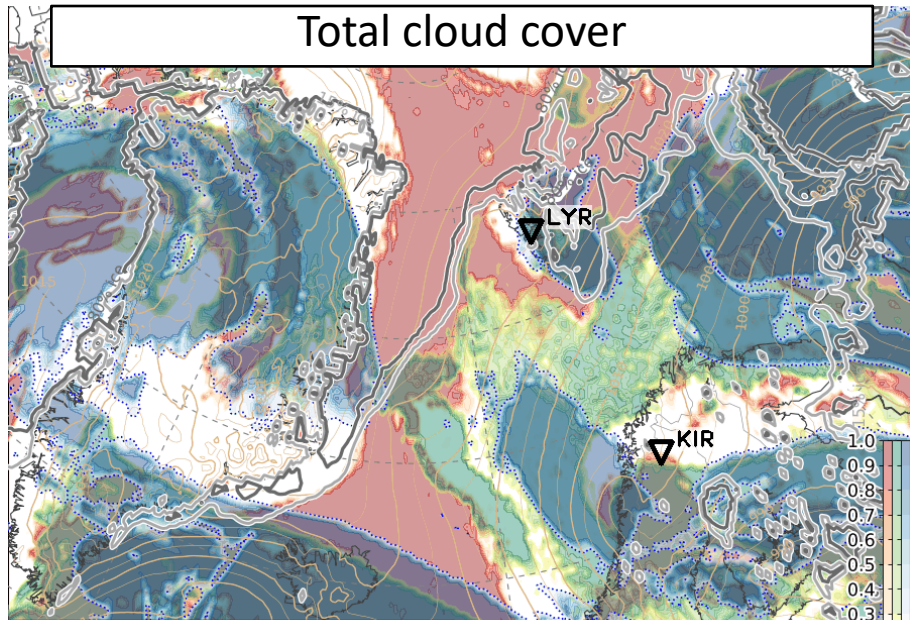
Integrated water vapour transport



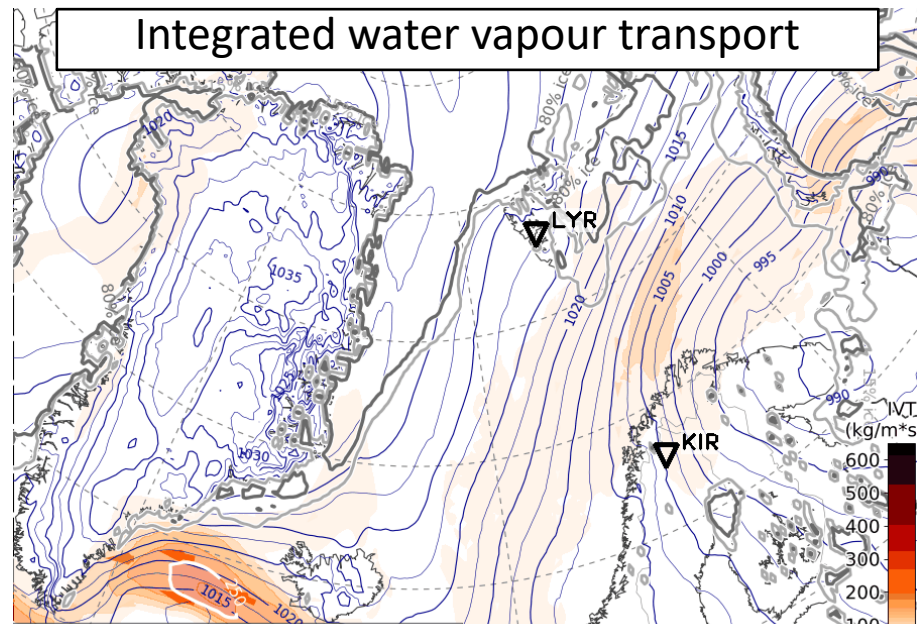
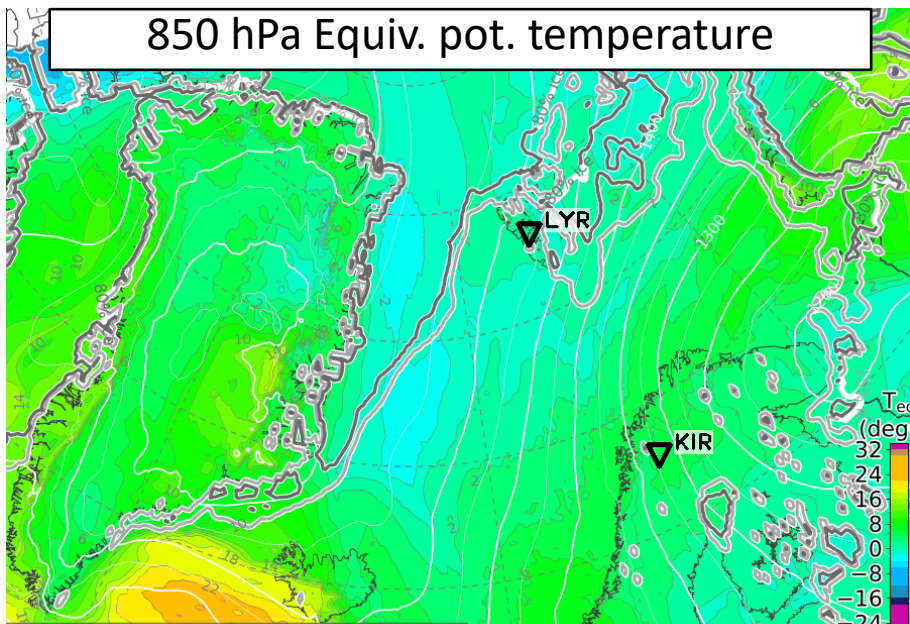
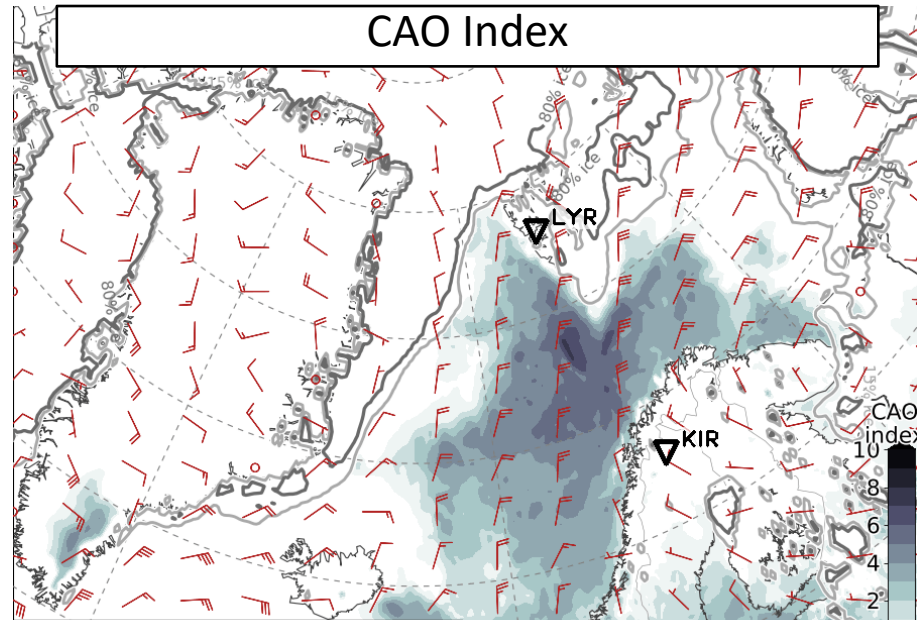
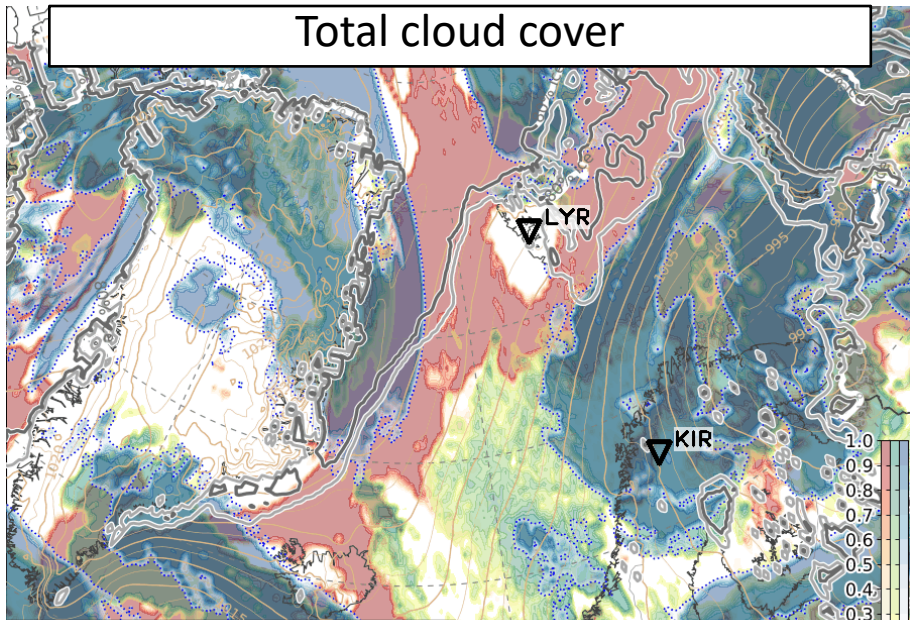
Sun, 2022-03-27 12 UTC (+60h)



Mon, 2022-03-28 12 UTC (+84h)



Tue, 2022-03-29 12 UTC (+108h)



Cloud cross-sections: Polar 5

2022-03-25 00 UTC: 36h

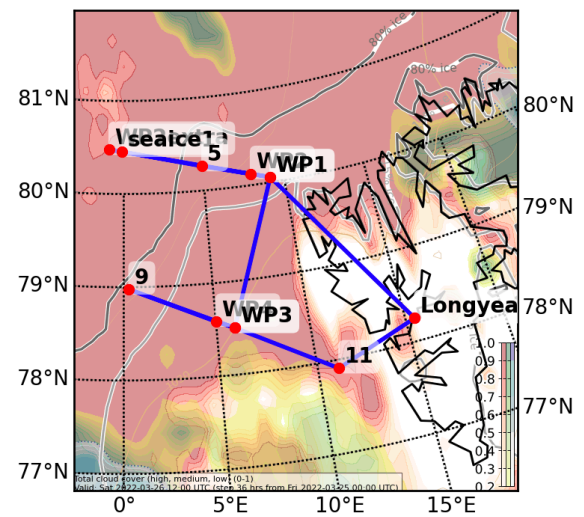
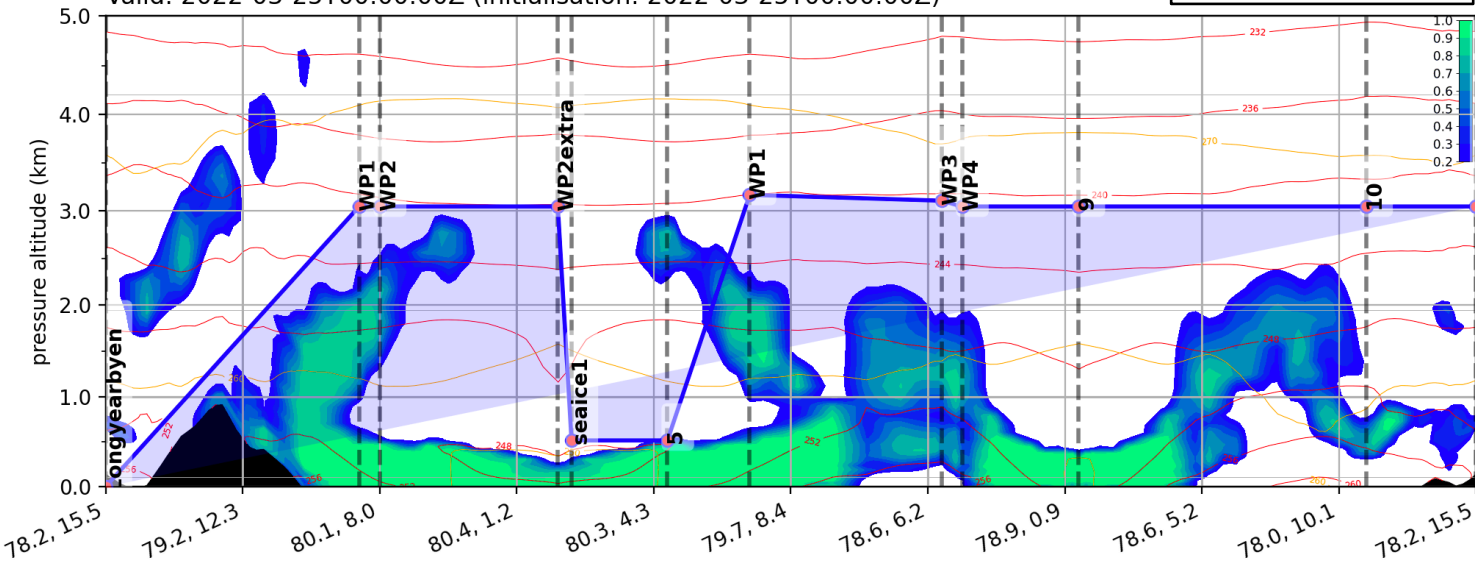
ECMWF & ICON

Sat, 2022-03-26, Clouds, 12 UTC

Cloud Cover (0-1) Vertical Section

Valid: 2022-03-25T00:00:00Z (initialisation: 2022-03-25T00:00:00Z)

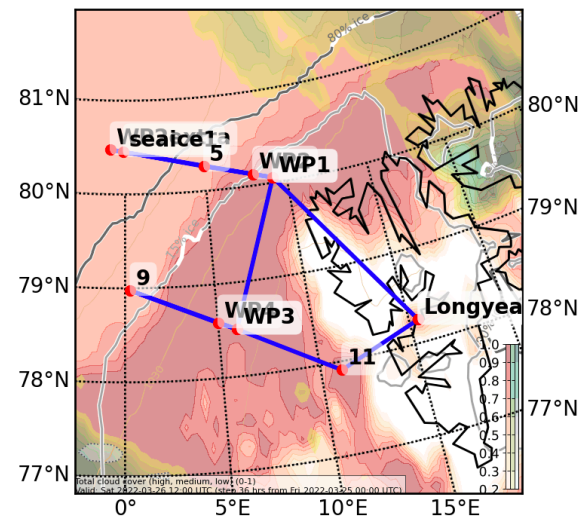
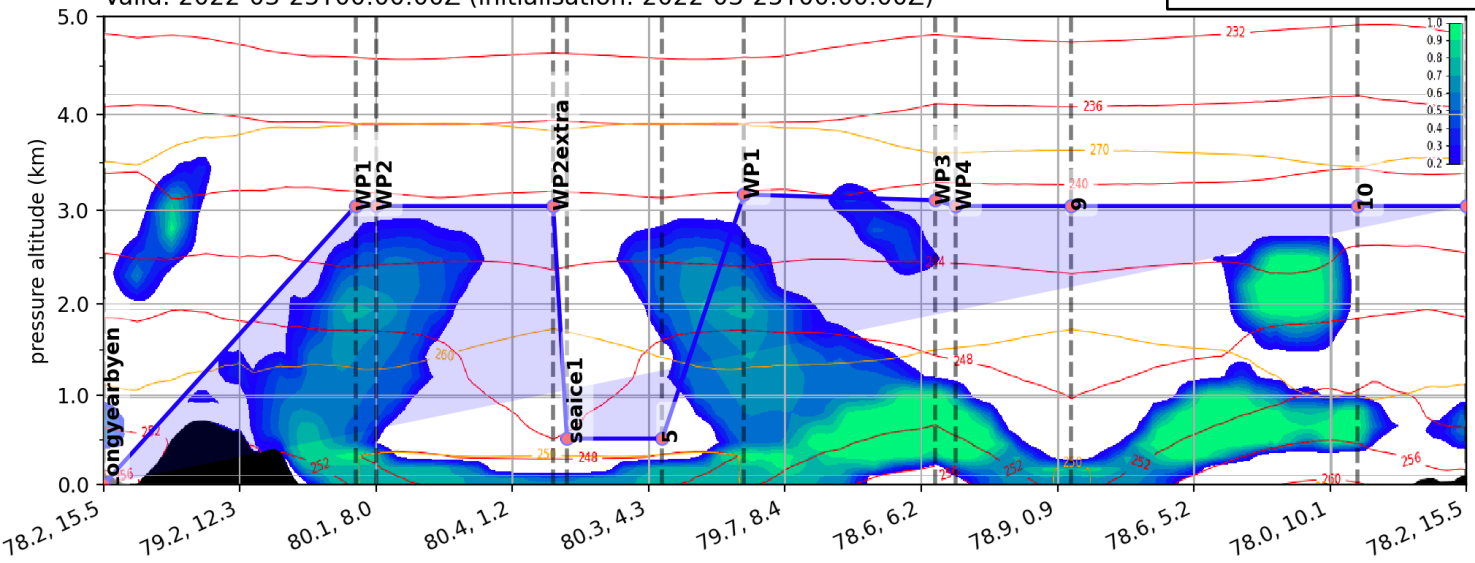
ECMWF



Cloud Cover (0-1) Vertical Section

Valid: 2022-03-25T00:00:00Z (initialisation: 2022-03-25T00:00:00Z)

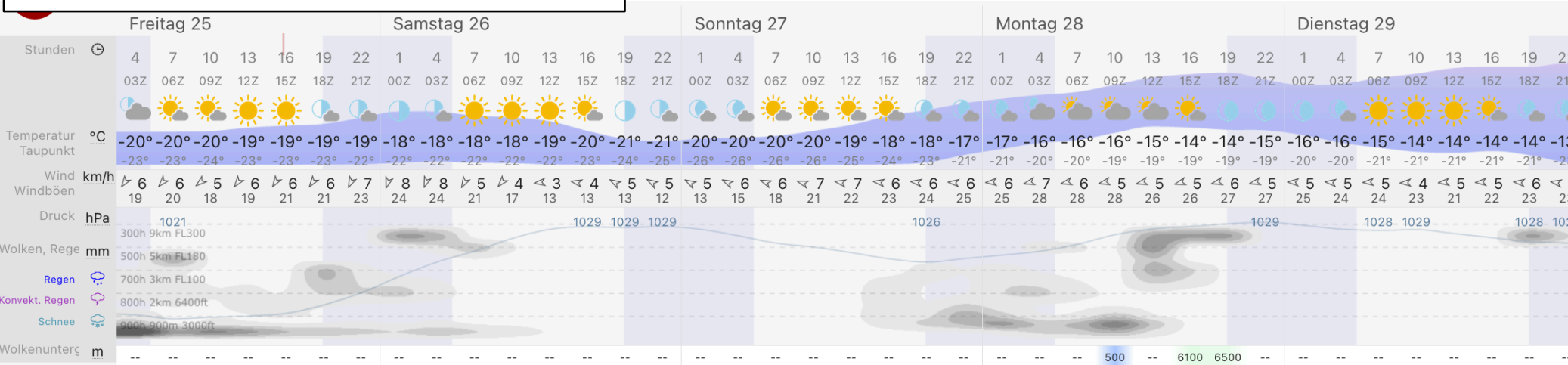
ICON



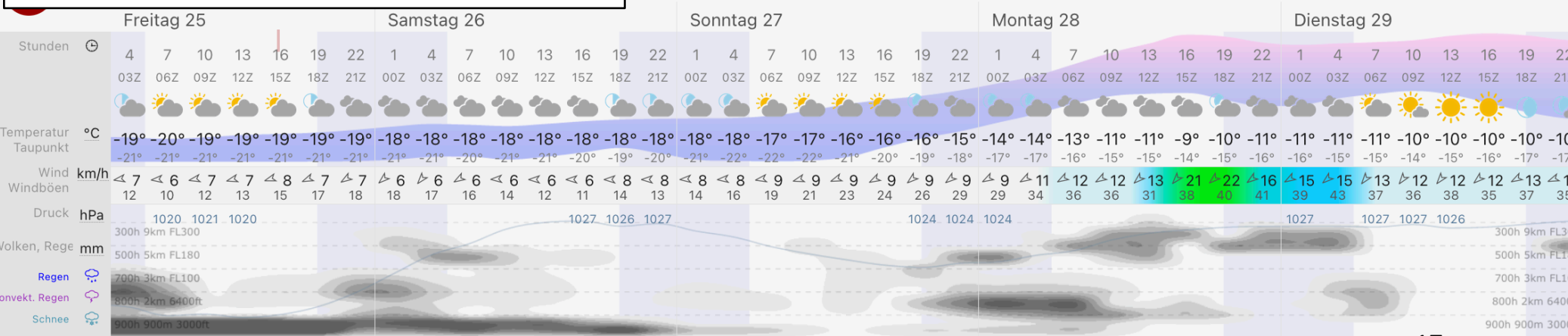
Airport meteograms & local weather at Svalbard

Longyearbyen:

ECWMF



ICON



Latest METAR and TAF from Longyearbyen airport (& airport forecast)

Svalbard Airport. Longyear

Longyearbyen, Norway

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

Current weather observation

The report was made **31** minutes ago, at **14:50**
UTC

Wind **5** kt from the **Southeast**, varying between
East/Northeast and **South**

Temperature **-18°C**

Humidity **65%**

Pressure **1020** hPa

Visibility 10 km or more

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

Time: 16:21 (15:21 UTC)

Forecast

Forecast valid from 25 at 12 UTC to 26 at 12
UTC

Wind **9** kt from the **East/Northeast**

Visibility 10 km or more

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

TAF: ENSB 2512/2612 06009KT 9999
FEW020

Summary

Summary: Weather Briefing 2022-03-25, 17:00 LT

In General: Good take-off & landing conditions in LYR until Tuesday

- **Saturday, 2022-03-26:**
 - CAA with northerly winds remains in the eastern part of Fram Strait
 - Showers west of Svalbard (maybe less organized)
- **Sunday, 2022-03-27:**
 - Warmer/moister air masses approach Fram Strait from NE and SW
 - West of Svalbard on-ice winds / North of Svalbard weak off-ice winds
 - Showers in Fram Strait influenced by topography of Svalbard
- **Monday, 2022-03-28:**
 - Northeasterly flow
 - Precip. along convergence zone of colder/drier and warmer/moister air in Fram Strait
- **Tuesday, 2022-03-29:**
 - Northeasterly flow persists
 - Air masses in Fram Strait moister and less cold
 - Precip. along convergence zone in Fram Strait persists, but less intense