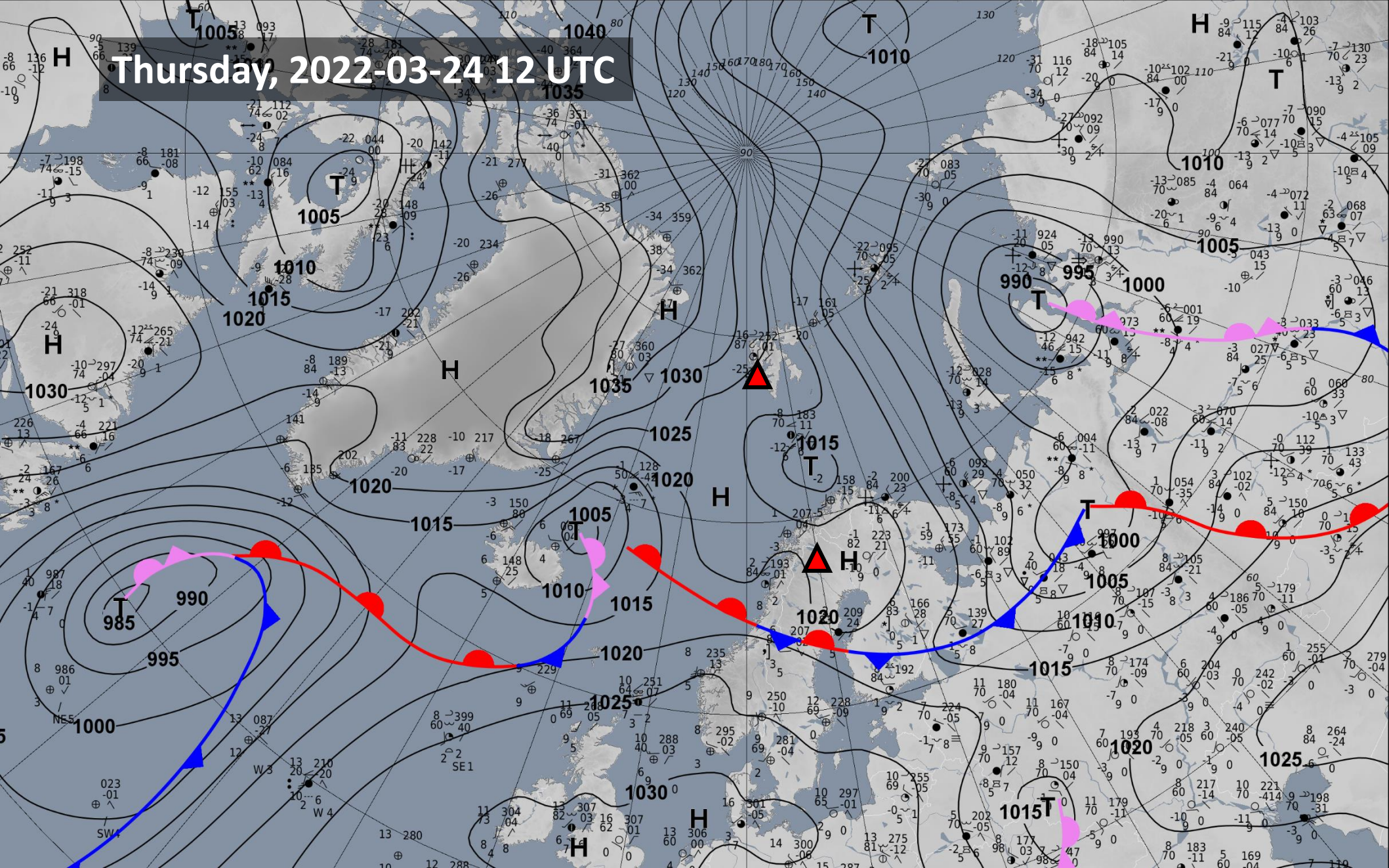


# Weather briefing HALO-(AC)<sup>3</sup>

Thursday, 2022-03-24, 17:00 LT

**Surface Analysis**  
Thursday, 2022-03-24 12 UTC  
DWD

Thursday, 2022-03-24 12 UTC



# Surface wind development and precipitation

2022-03-24 00 UTC: 36 – 132h

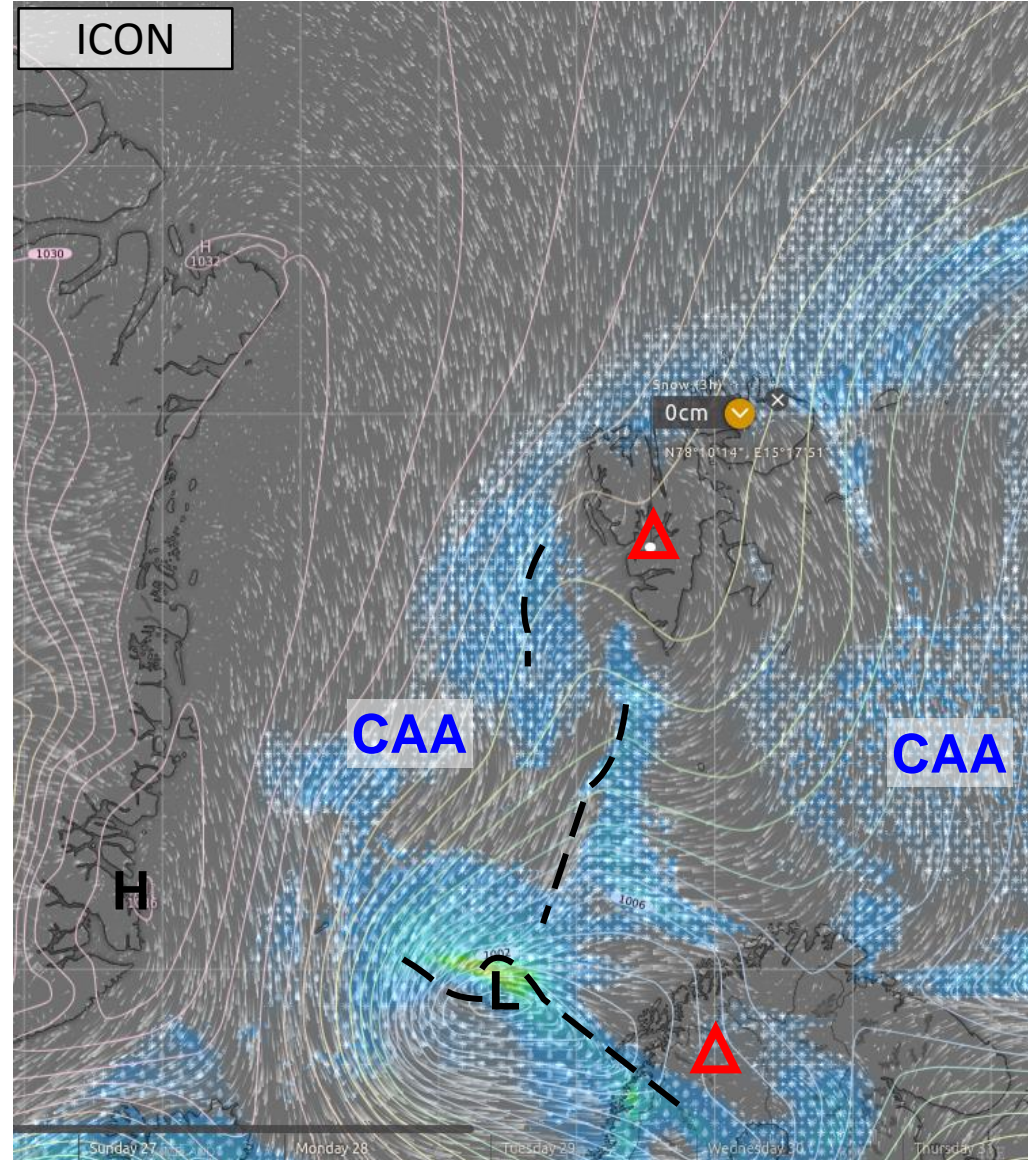
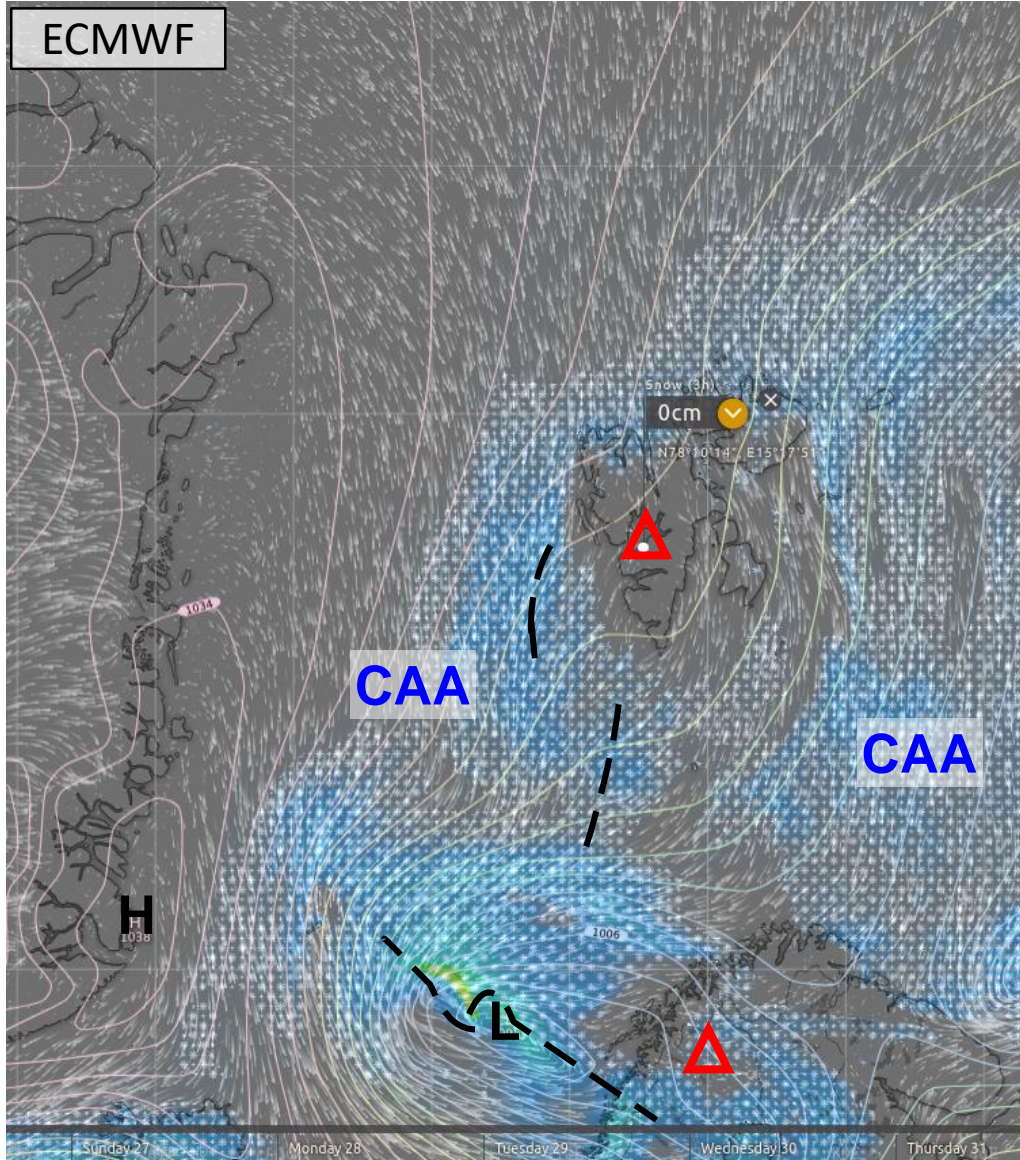
ECMWF & ICON

**CAA: Cold Air Advection**

**WAA: Warm Air Advection**

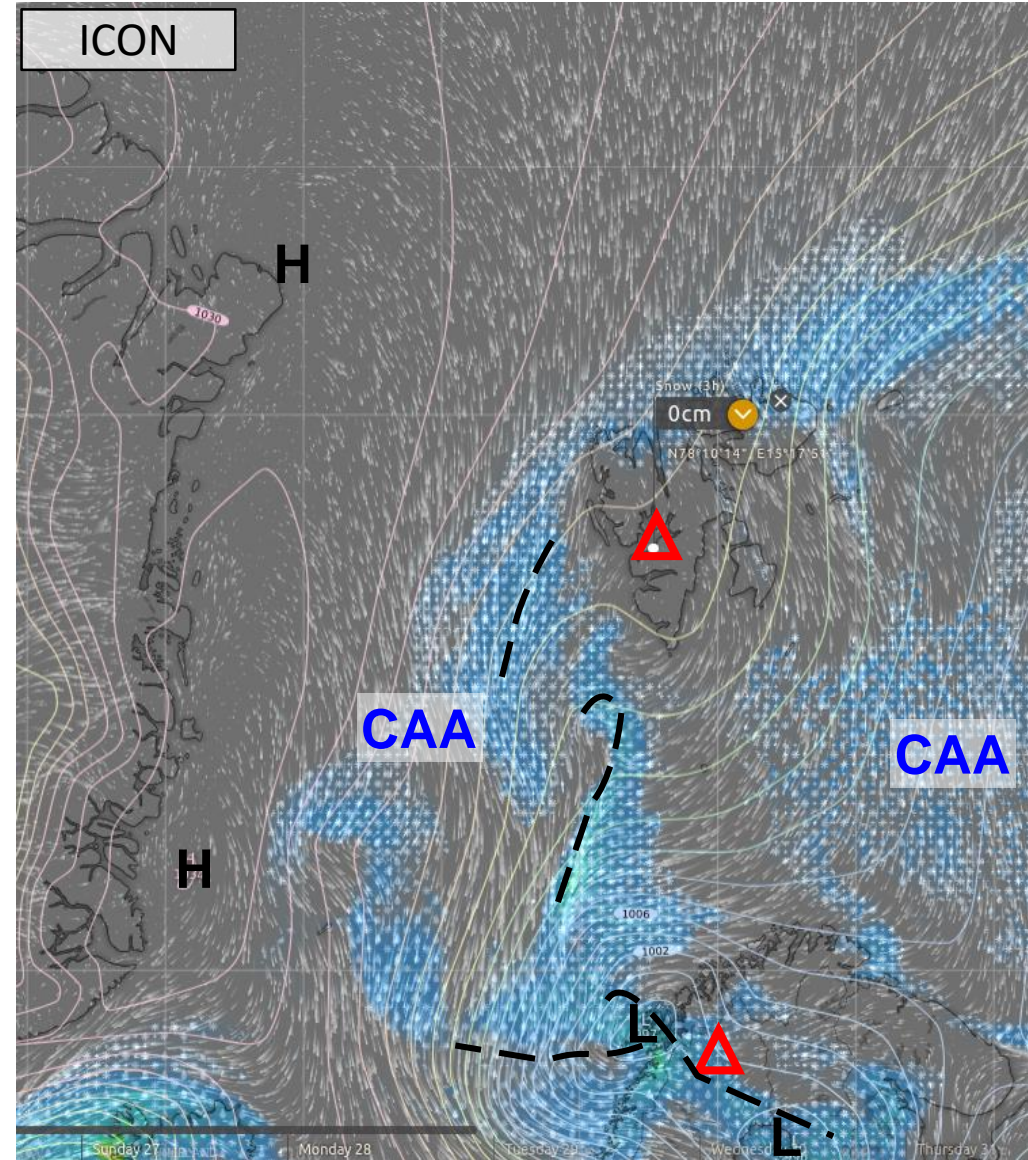
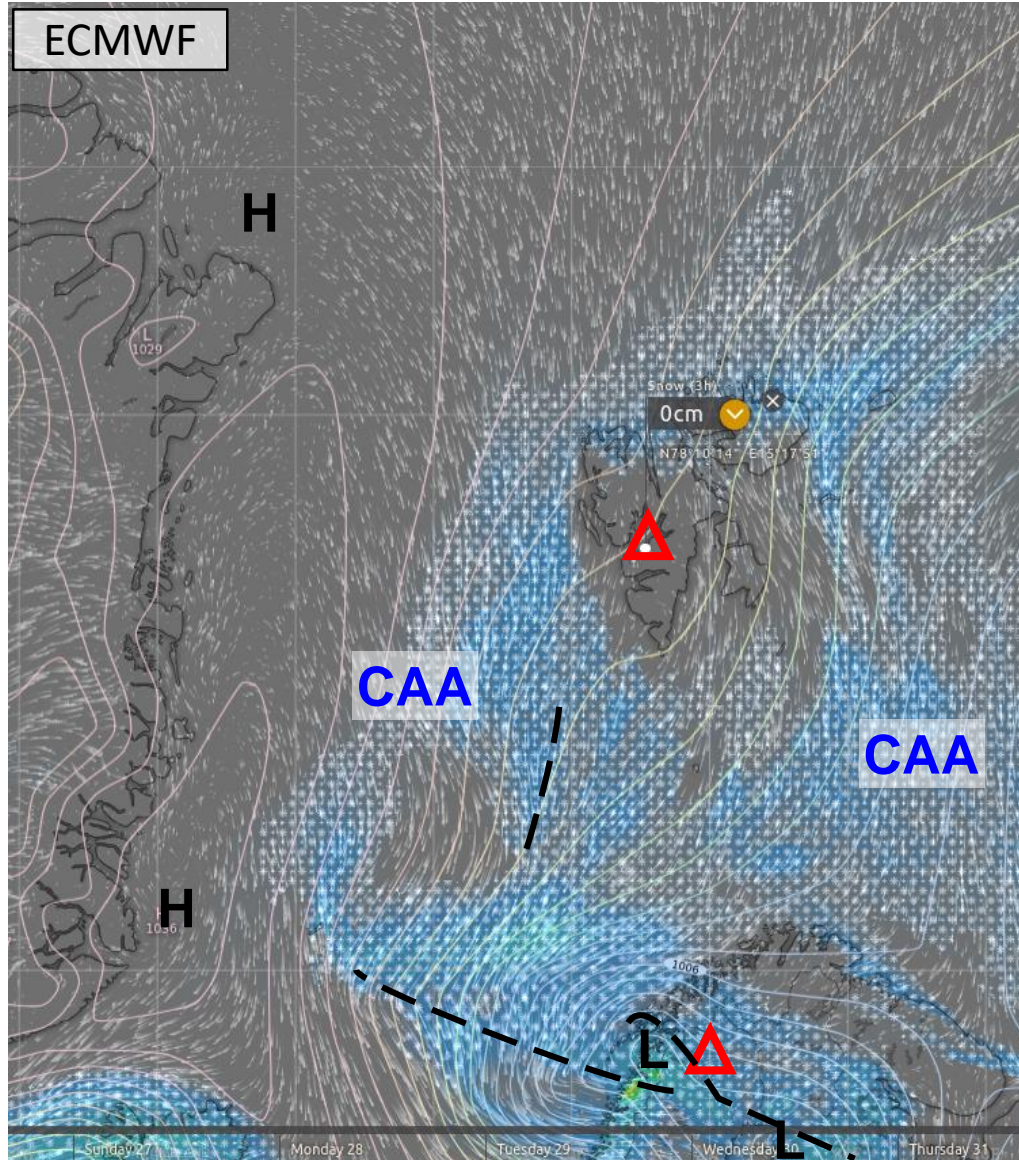


# Friday, 2022-03-25 09 UTC (+33h)



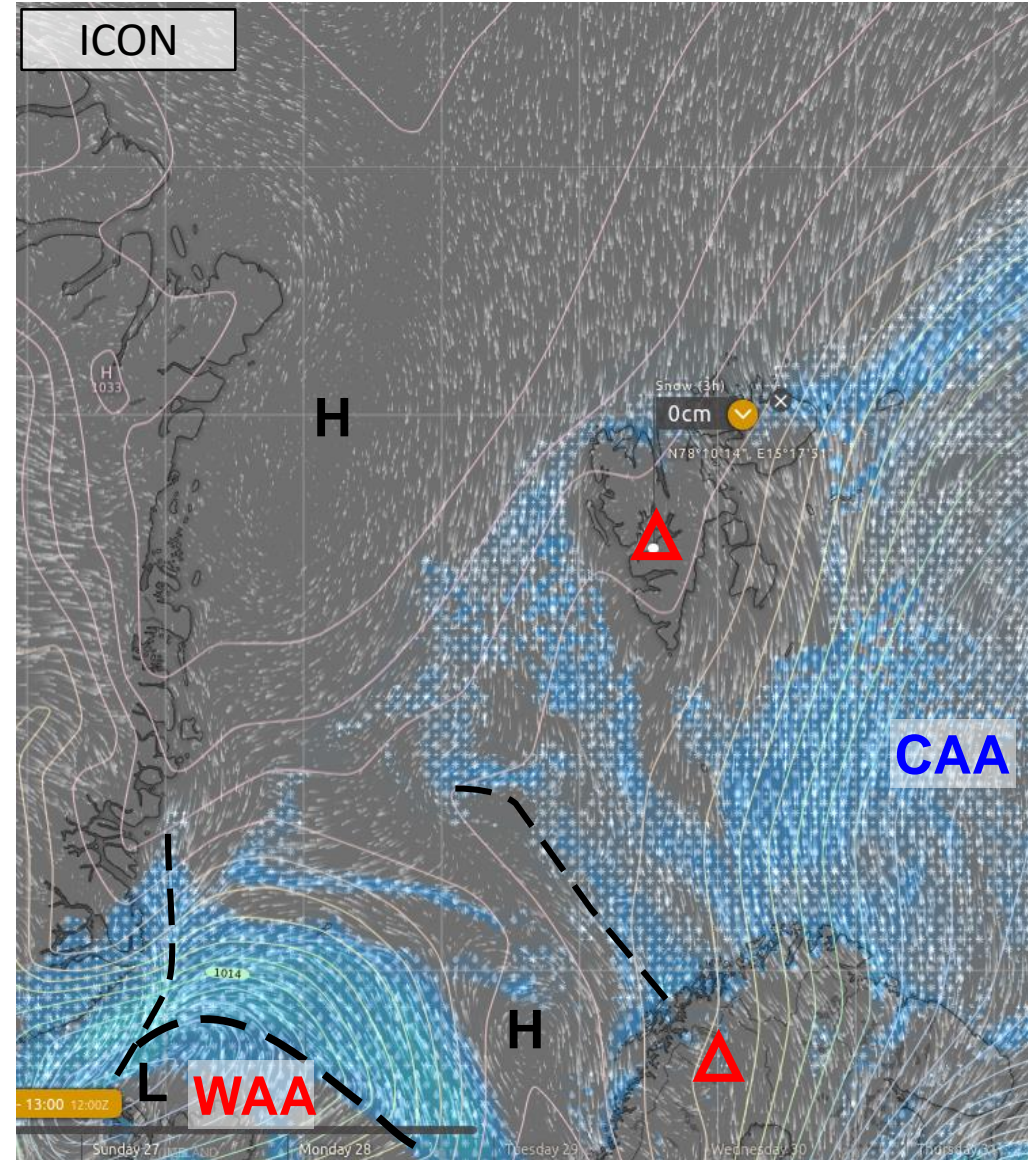
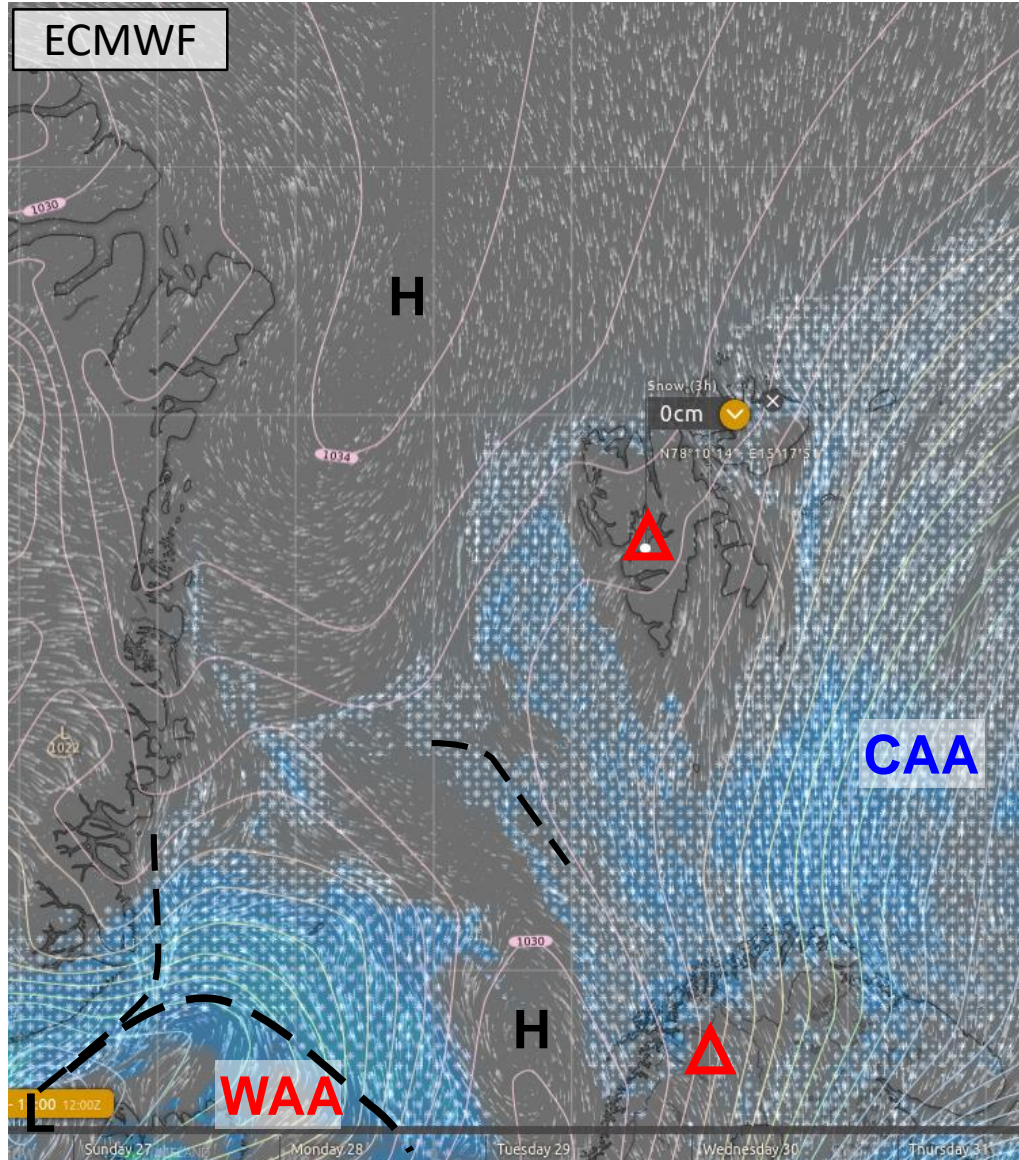


Friday, 2022-03-25 15 UTC (+39h)



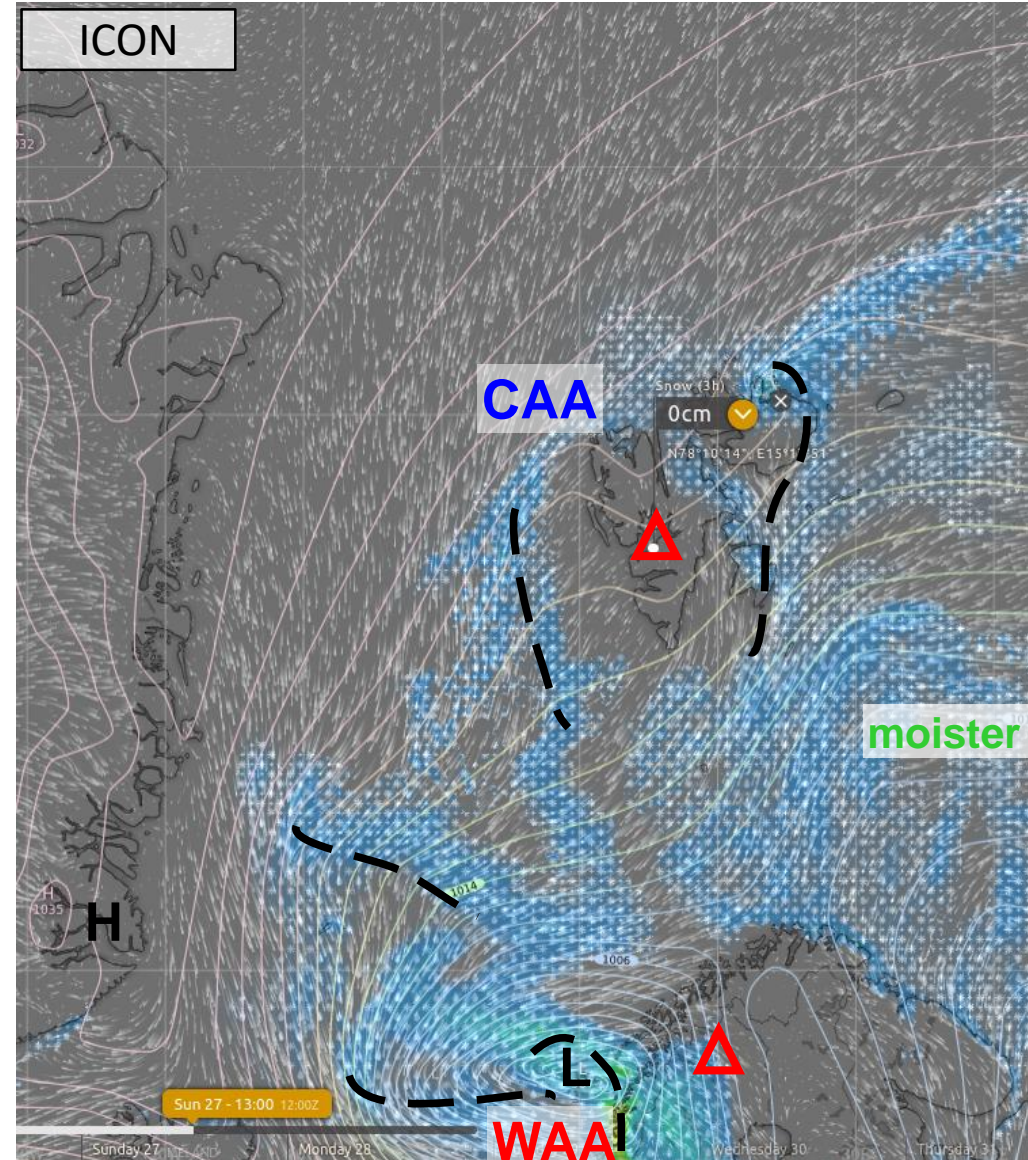
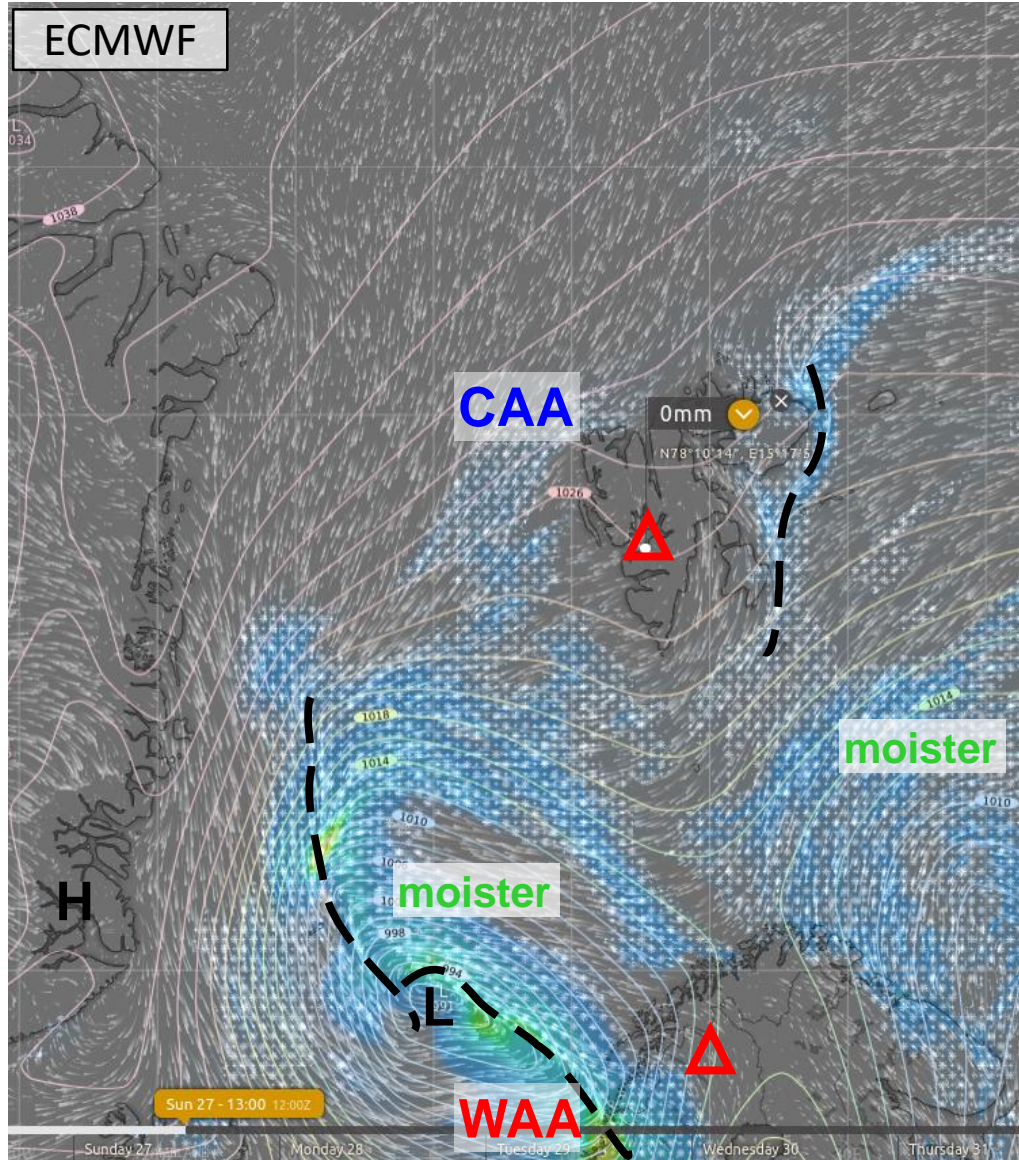


Saturday, 2022-03-26 12 UTC (+60h)



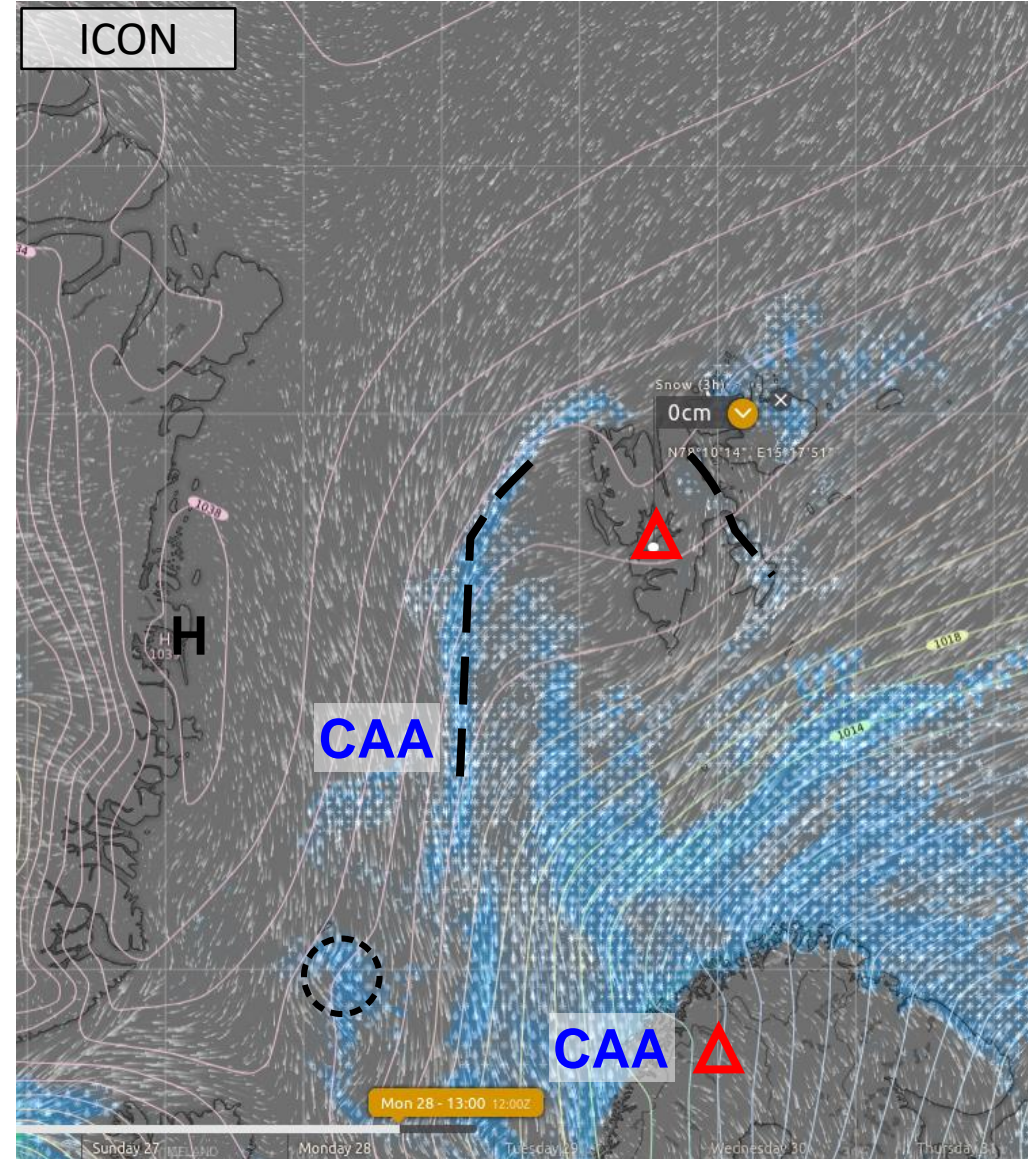
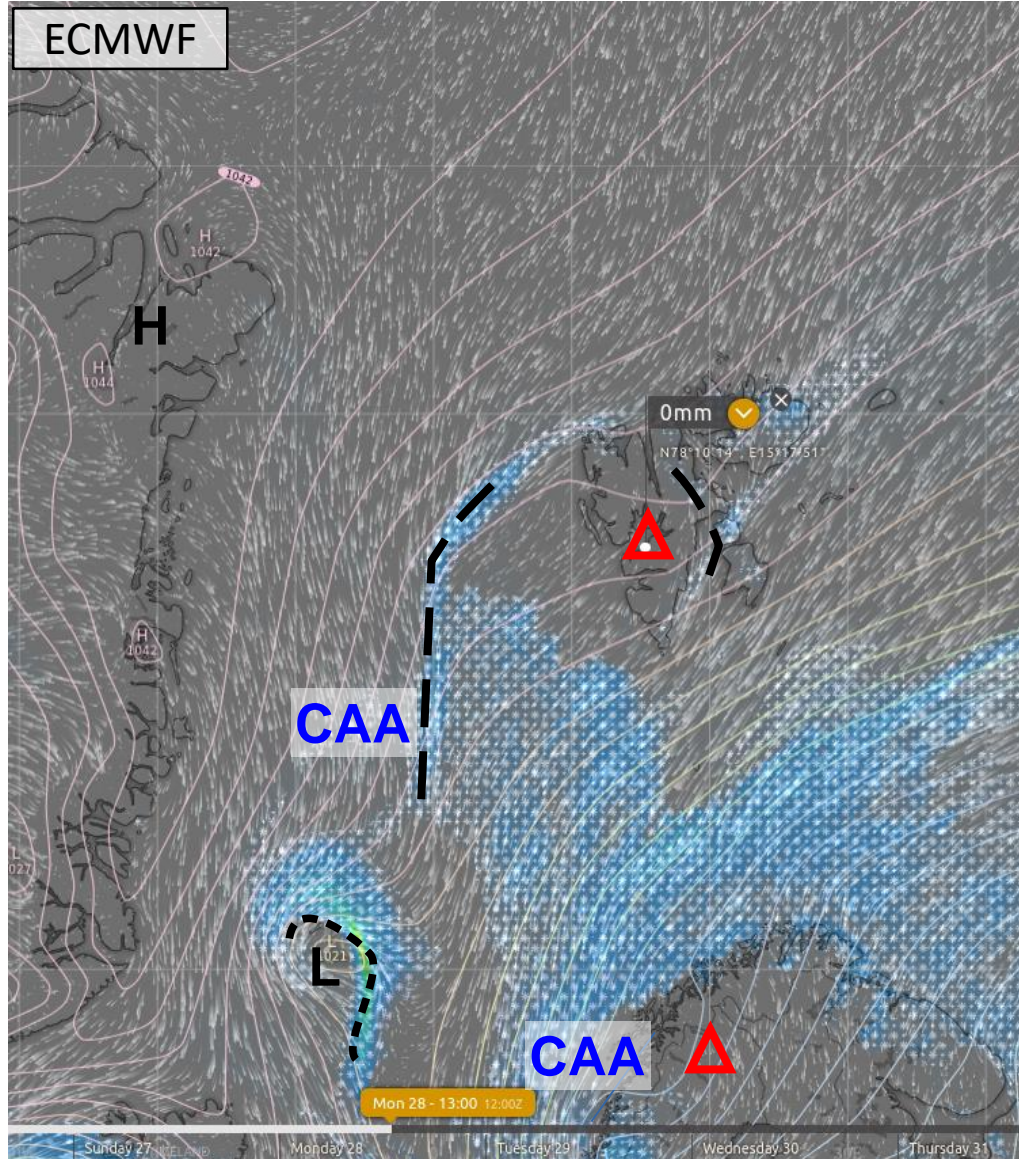


# Sunday, 2022-03-27 12 UTC (+84h)



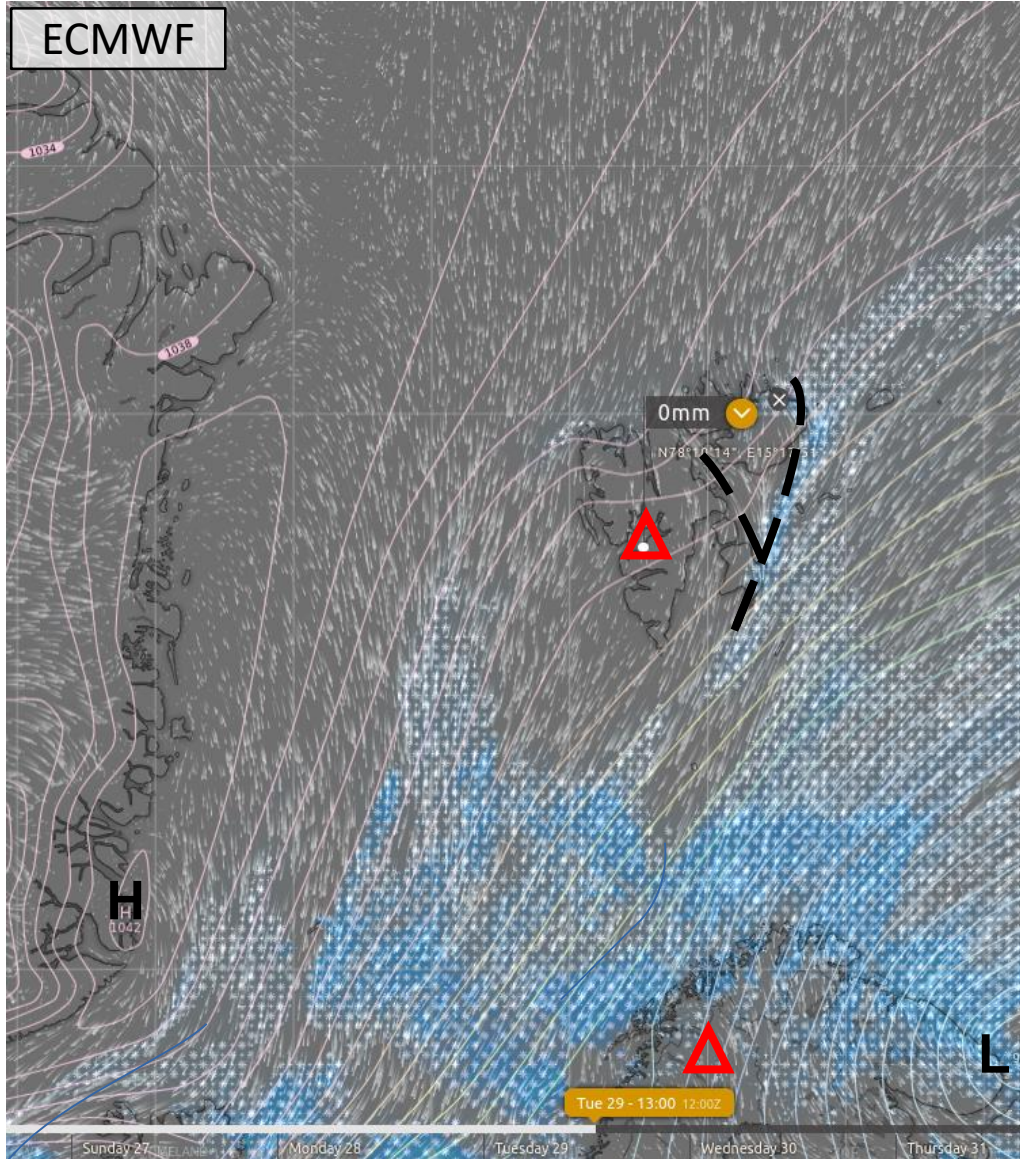


# Monday, 2022-03-28 12 UTC (+108h)





Tuesday, 2022-03-29 12 UTC (+132h)



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

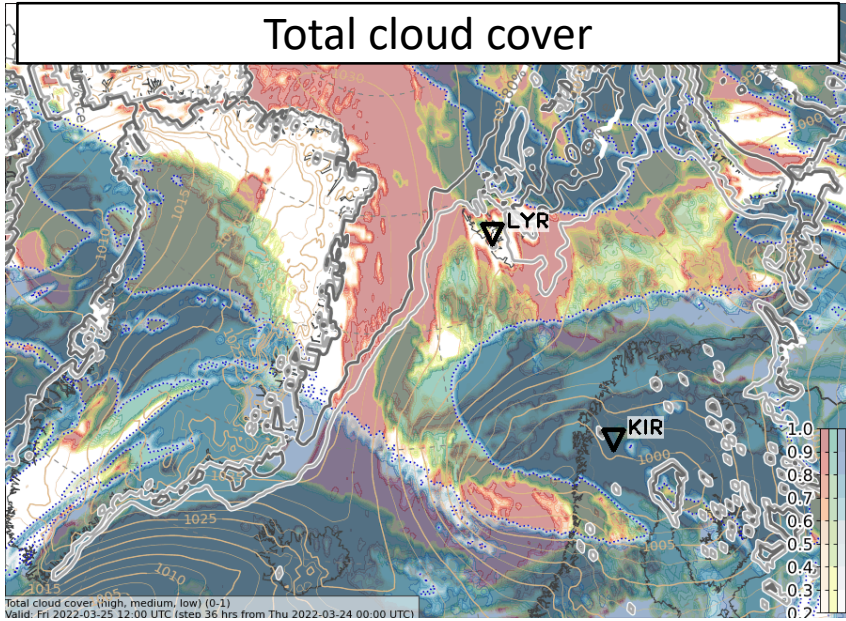
2022-03-24 00 UTC: 36 – 108h

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

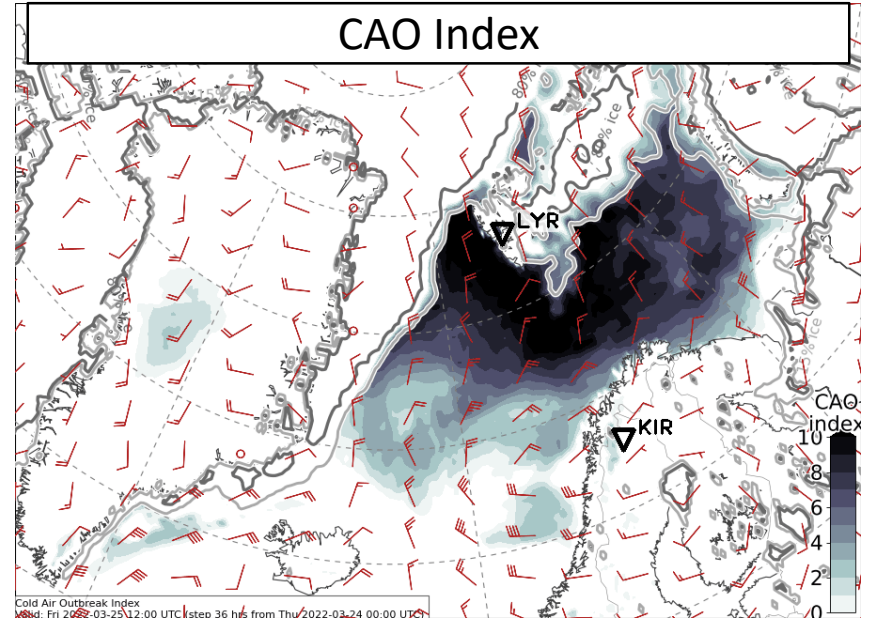


Fri, 2022-03-25 12 UTC (+36h)

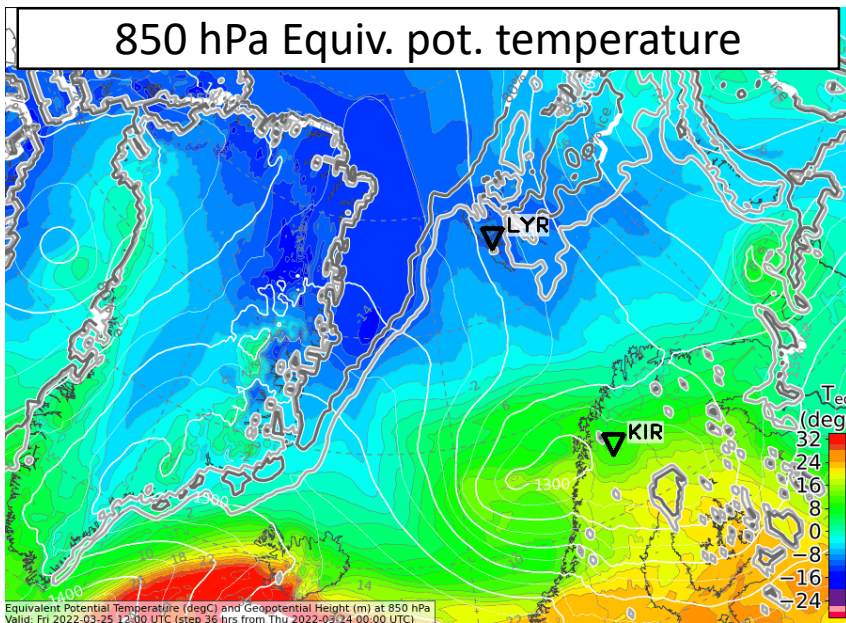
Total cloud cover



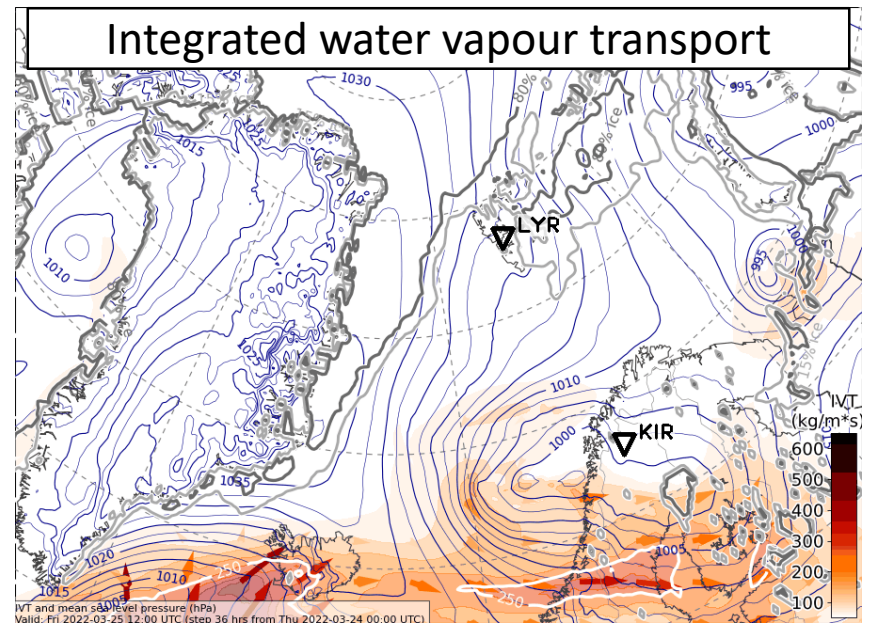
CAO Index



850 hPa Equiv. pot. temperature



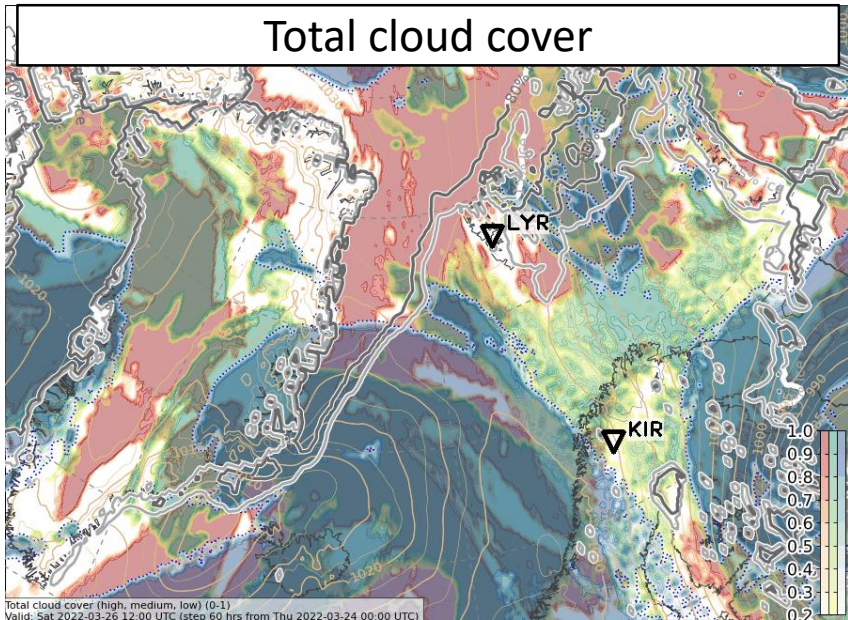
Integrated water vapour transport



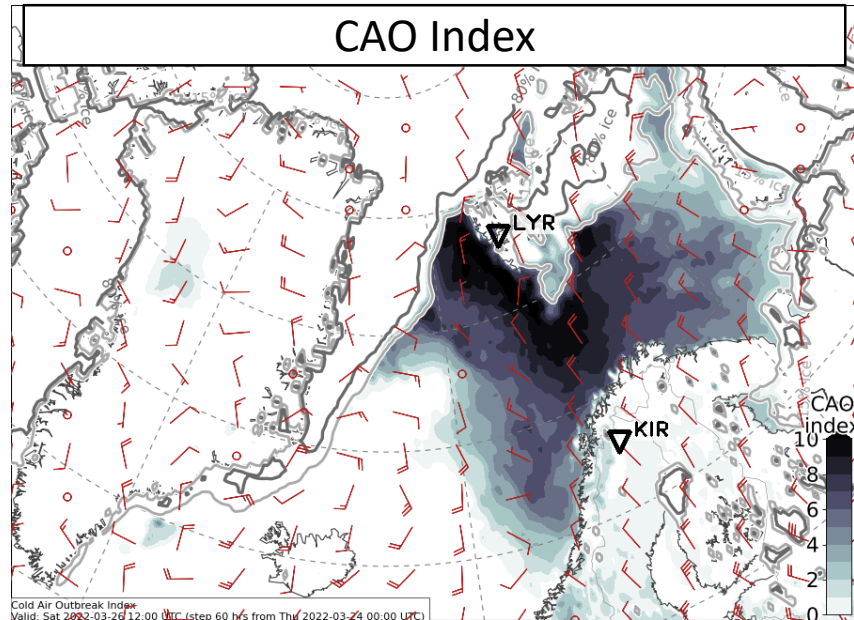


Sat, 2022-03-26 12 UTC (+60h)

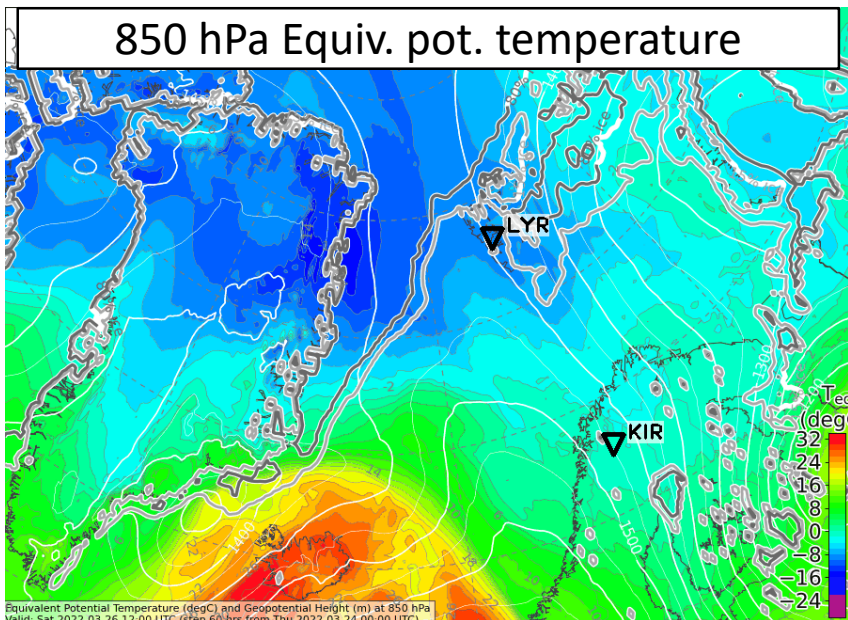
Total cloud cover



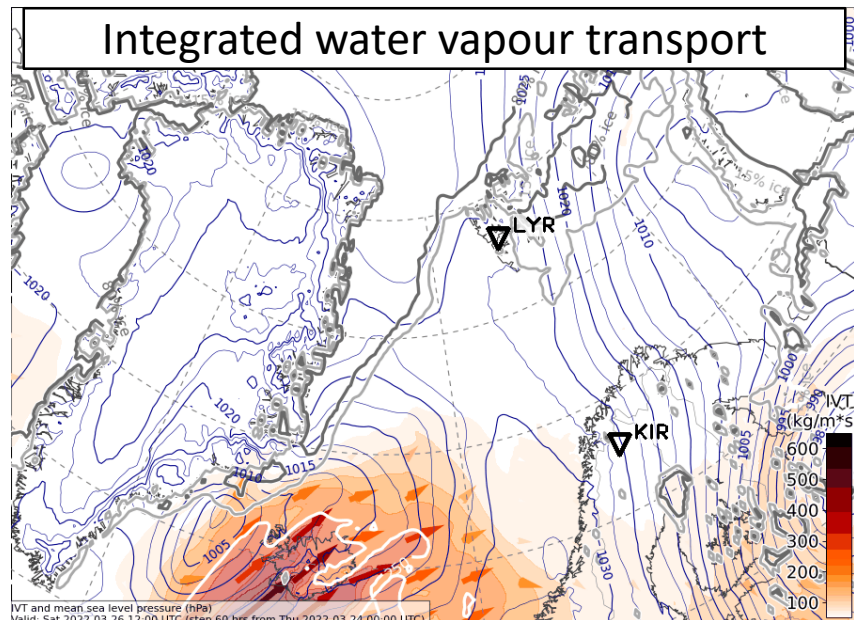
CAO Index



850 hPa Equiv. pot. temperature



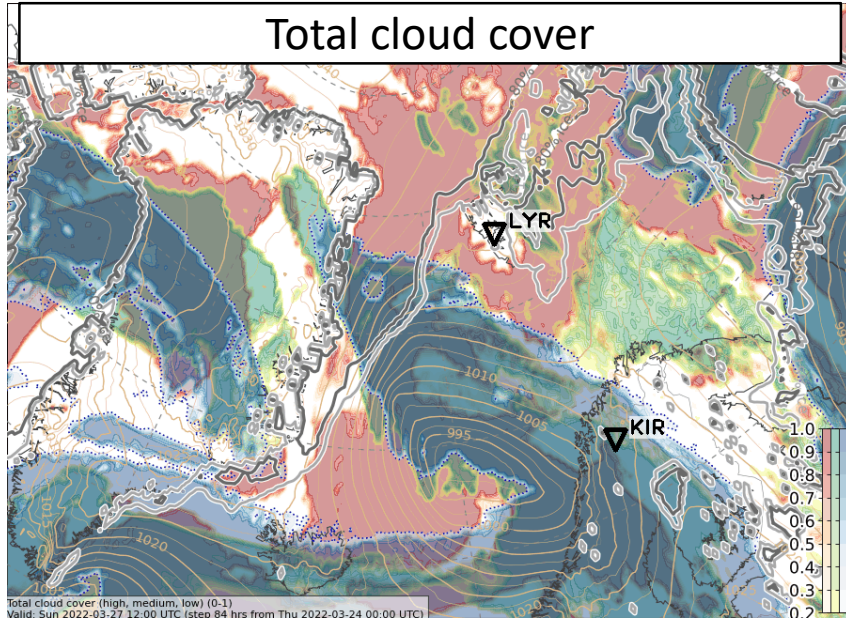
Integrated water vapour transport



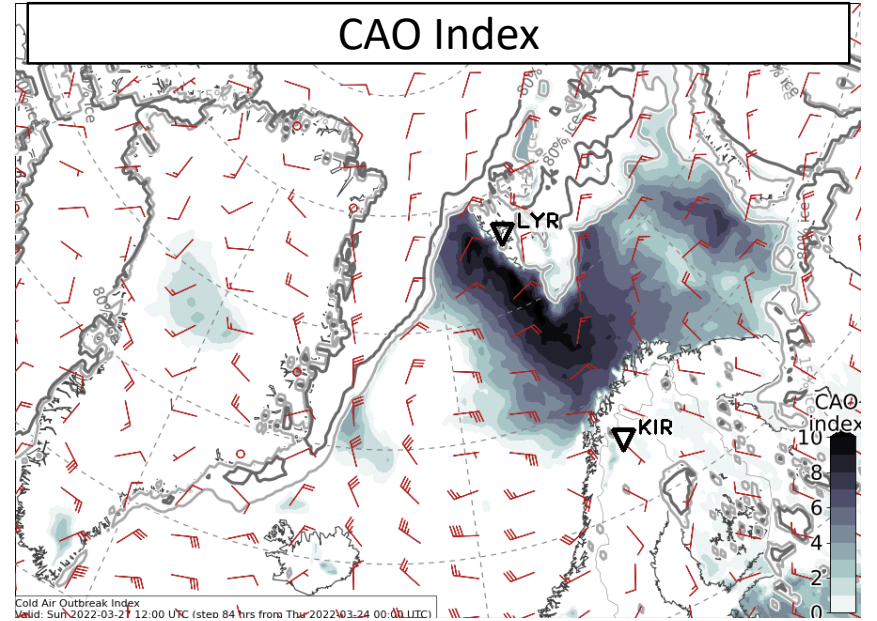


Sun, 2022-03-27 12 UTC (+84h)

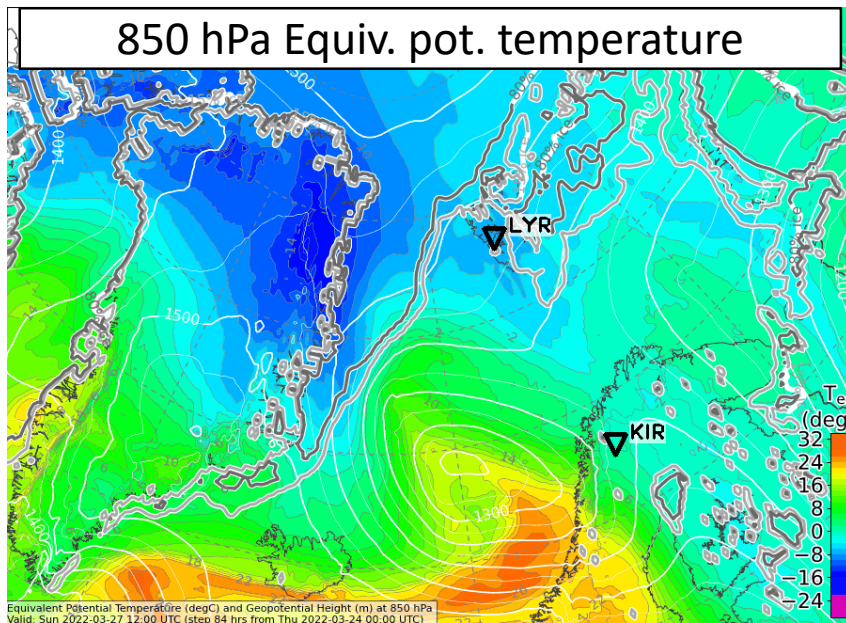
Total cloud cover



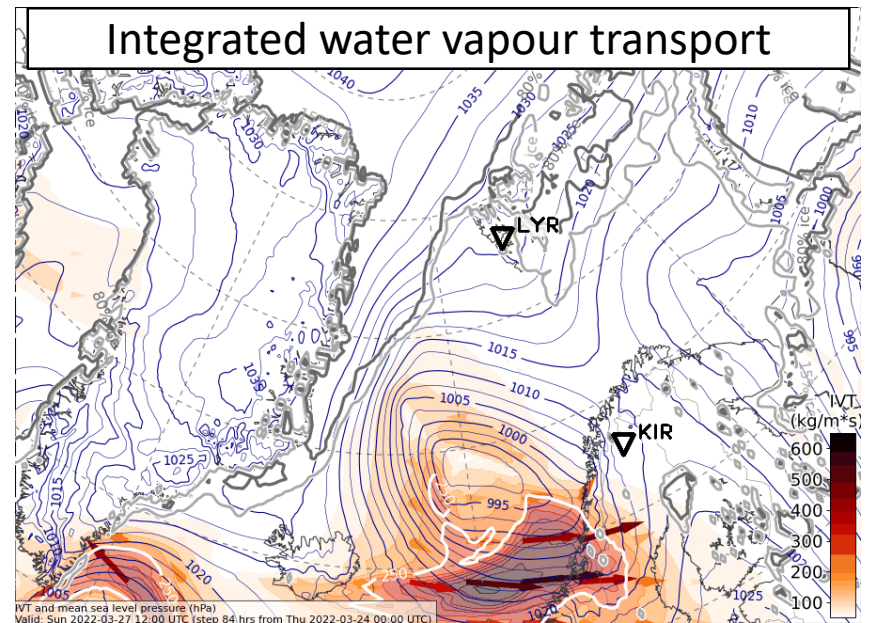
CAO Index



850 hPa Equiv. pot. temperature



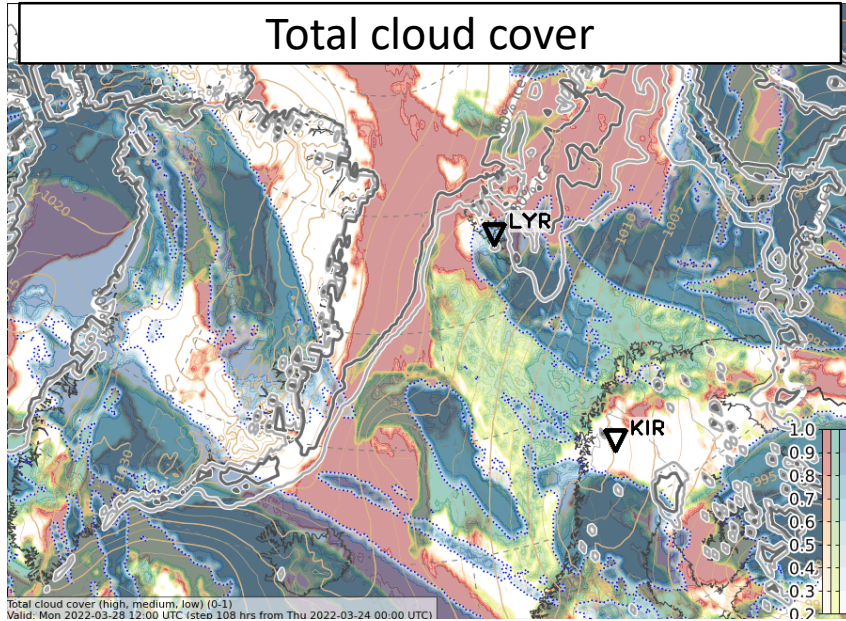
Integrated water vapour transport



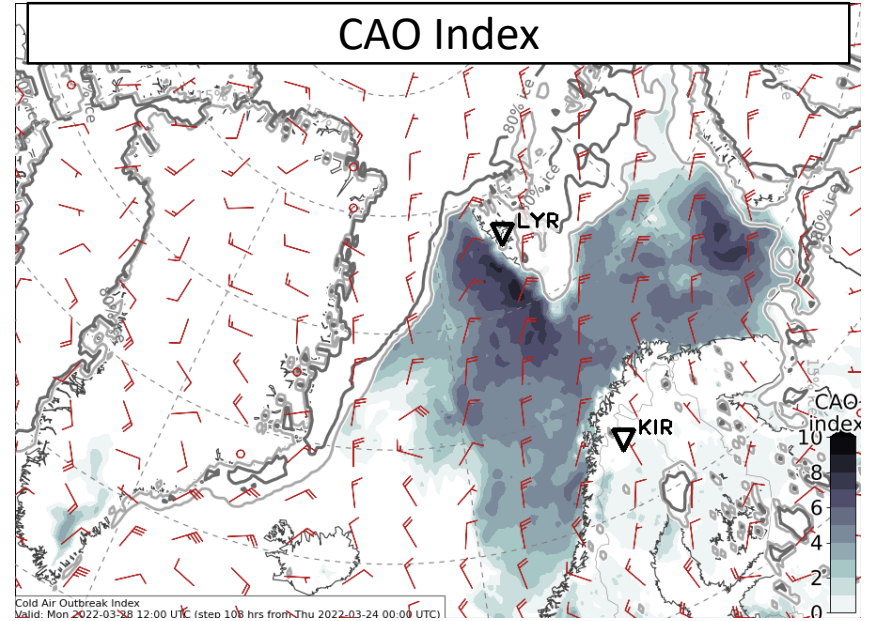


Mon, 2022-03-28 12 UTC (+108h)

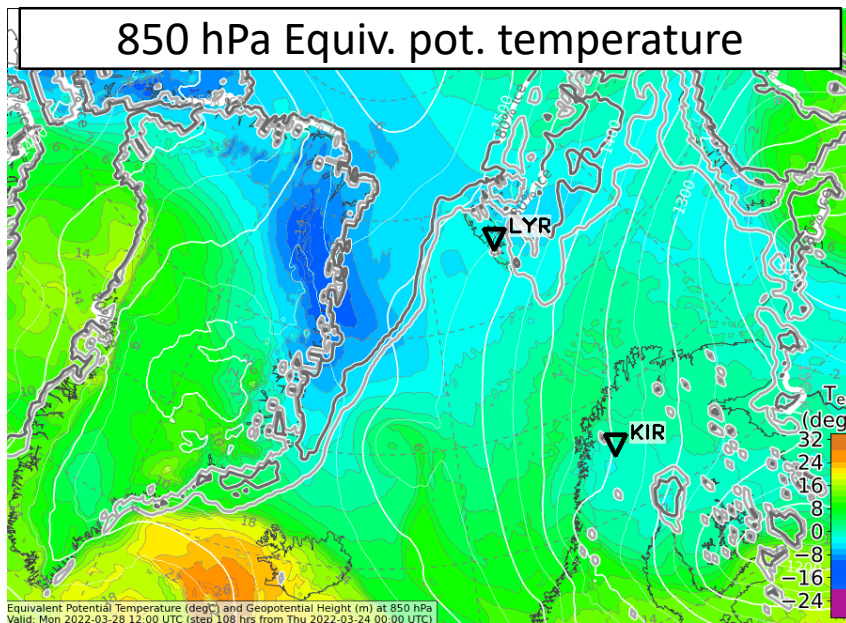
Total cloud cover



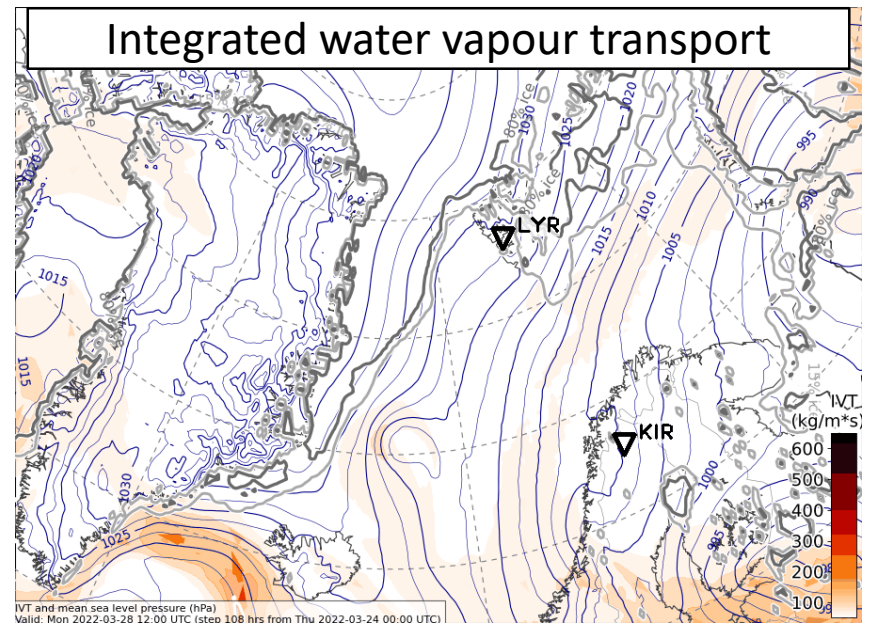
CAO Index



850 hPa Equiv. pot. temperature



Integrated water vapour transport



## **Cloud situation in Fram Strait**

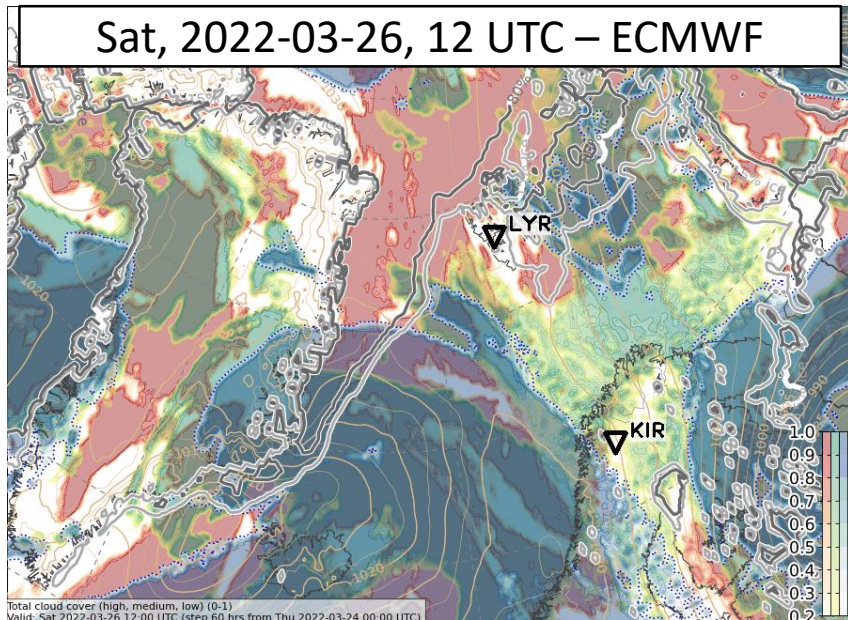
2022-03-24 00 UTC: 60 – 84h

ECMWF and ICON

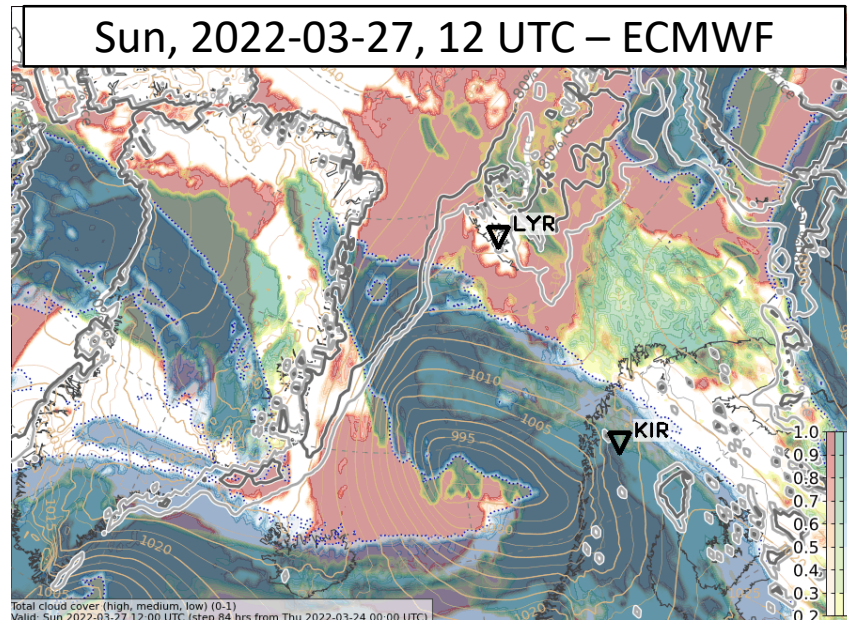


# Total cloud cover

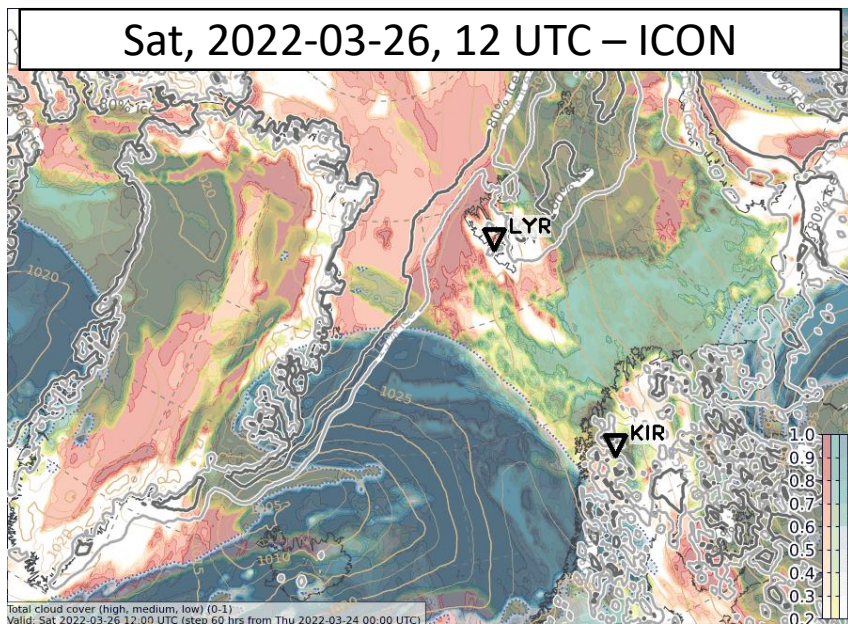
Sat, 2022-03-26, 12 UTC – ECMWF



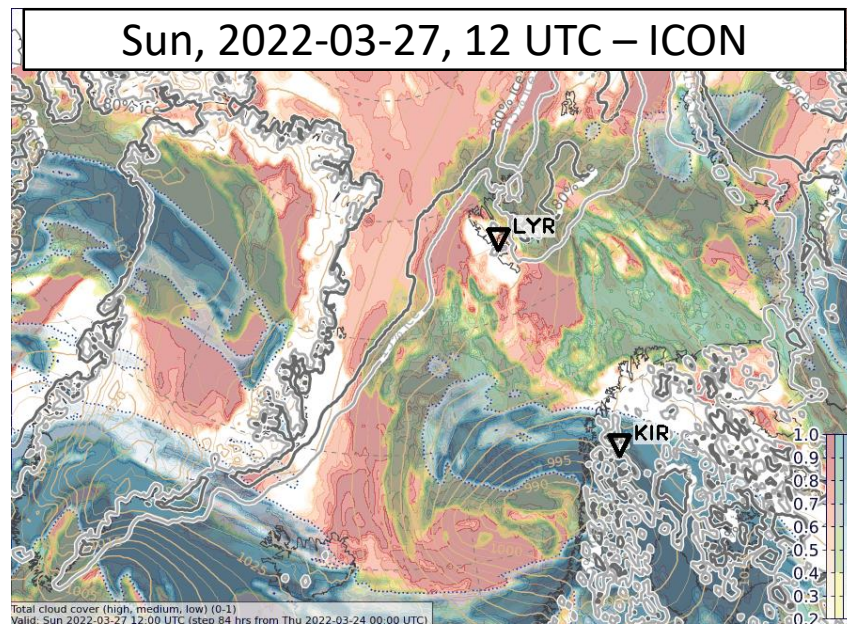
Sun, 2022-03-27, 12 UTC – ECMWF



Sat, 2022-03-26, 12 UTC – ICON



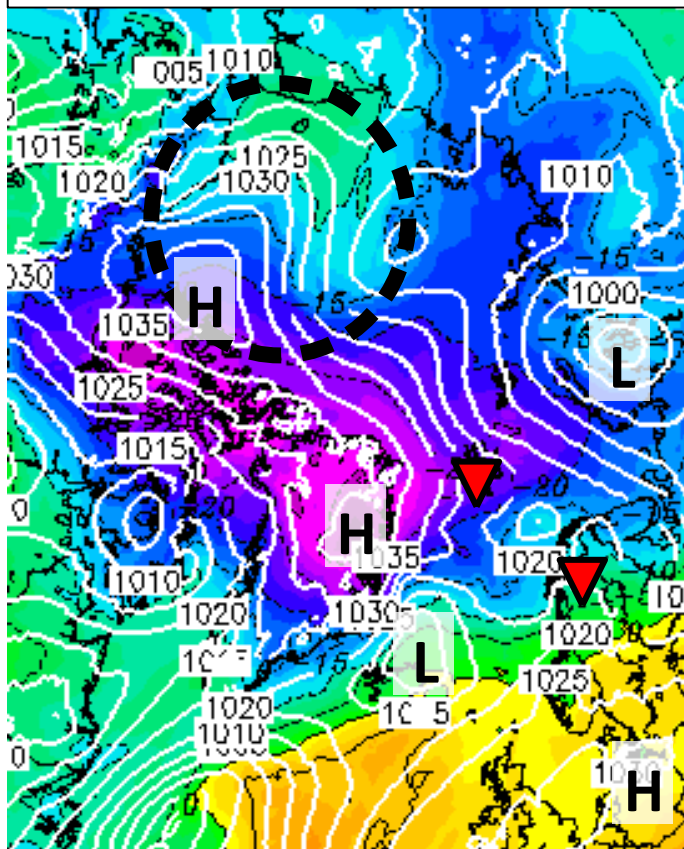
Sun, 2022-03-27, 12 UTC – ICON



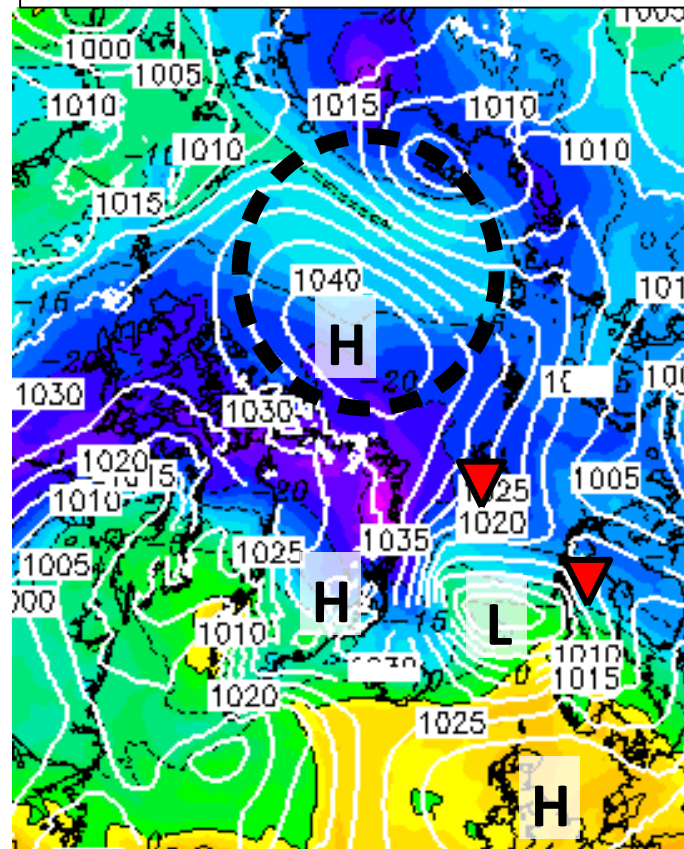


# ECMWF: 850hPa Temperature (colours) & surface pressure (isolines)

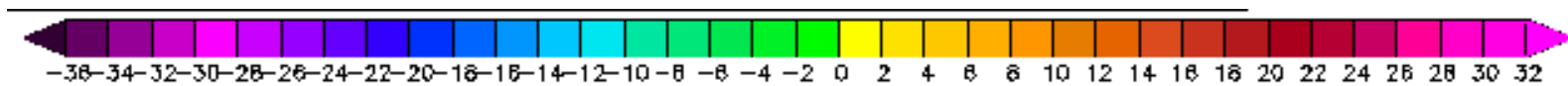
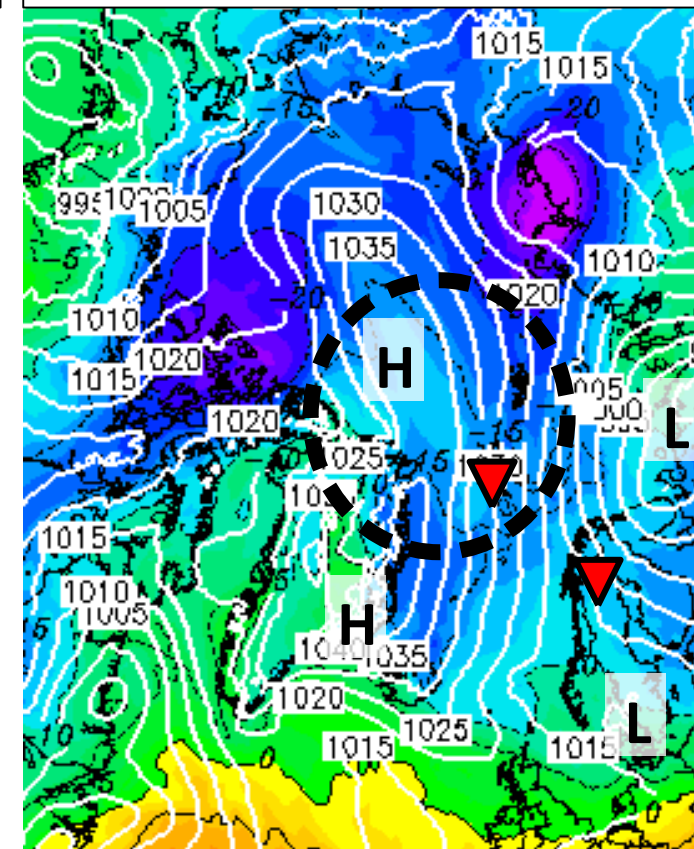
Thursday, 2022-03-24 12 UTC



Sunday, 2022-03-27 12 UTC

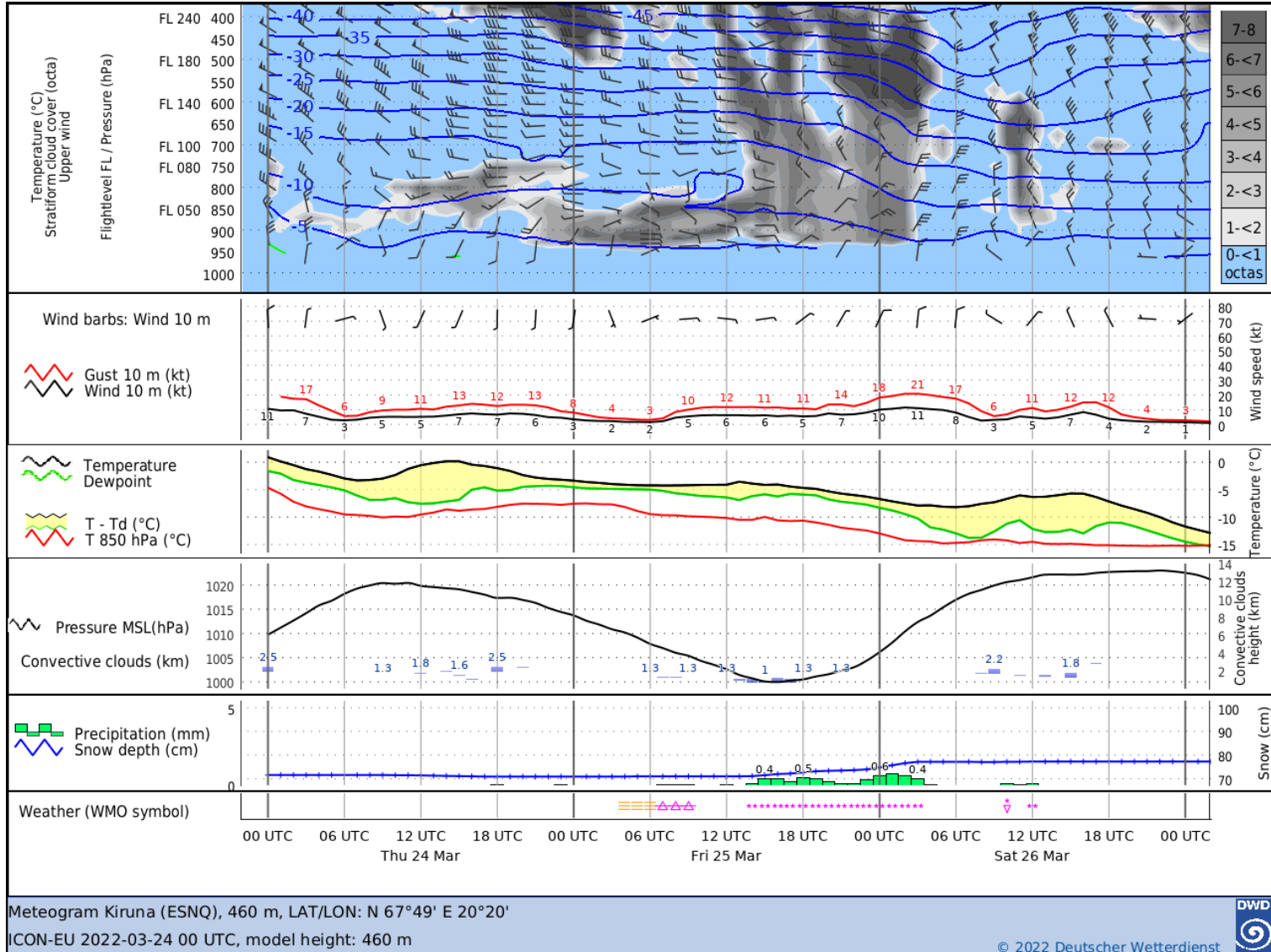


Tuesday, 2022-03-29 12 UTC



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

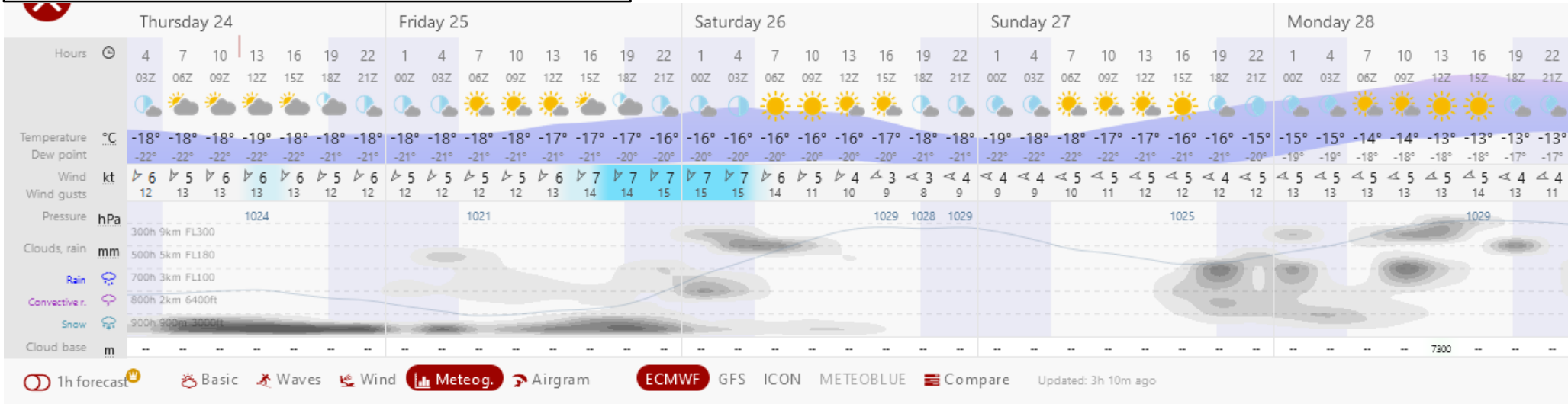
# Kiruna:



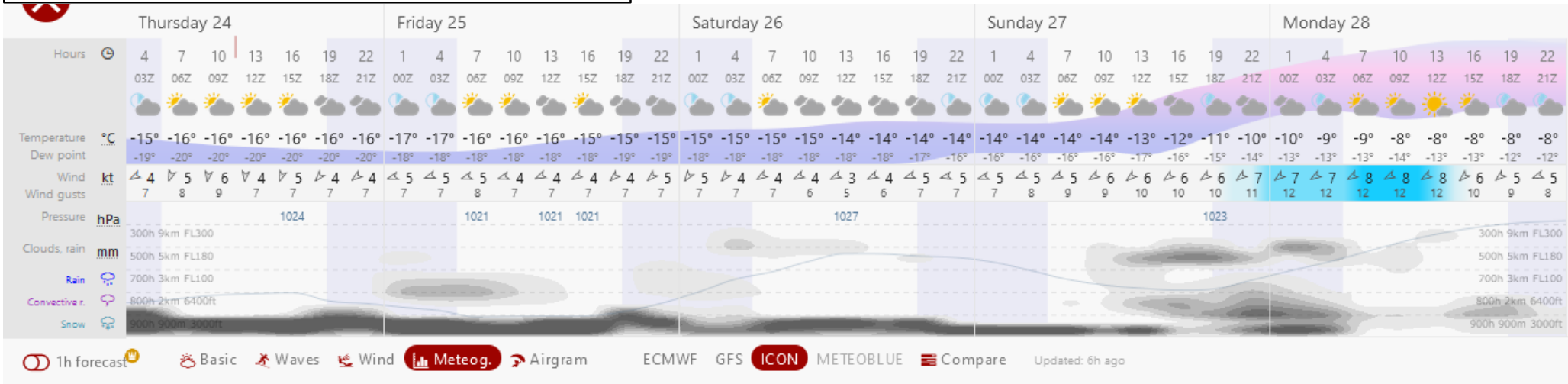


# Longyearbyen:

## 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 **17** minutes ago, at **13:50**  
UTC

Wind **6** kt from the **Southeast**

Temperature **-17°C**

Humidity **65%**

Pressure **1023** hPa

Visibility 10 km or more

**Scattered clouds** at a height of **3000** ft

[Change units](#)

Time: 15:07 (14:07 UTC)

### Forecast

*Forecast valid from 24 at 12 UTC to 25 at 12  
UTC*

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

Visibility 10 km or more

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

*Temporary  
from 25 at 09 UTC to 25 at 12 UTC*

Wind **10** kt from the **North**

**TAF:** ENSB 2412/2512 12009KT 9999  
FEW030 TEMPO 2509/2512 35010KT



# Summary

## Summary: Weather Briefing 2022-03-24, 17:00 LT

- **Overall**
  - LYR in lee → favourable flight conditions
- **Friday, 2022-03-25:**
  - Persistent northerly flow and CAO through Fram Strait
  - Low level clouds in Fram Strait
- **Saturday, 2022-03-26:**
  - High pressure ridge east of Greenland narrowing northerly flow to Eastern Fram Strait
  - CAA weakens
- **Sunday, 2022-03-27:**
  - Passage of low south-west of Svalbard disturbs northerly flow in Eastern Fram Strait
- **Monday, 2022-03-28:**
  - Probably northerly flow through Fram Strait behind low (ICON)
  - Probably formation of polar low (ECMWF)
  - Advection of aged warm air from Pacific through Central Arctic