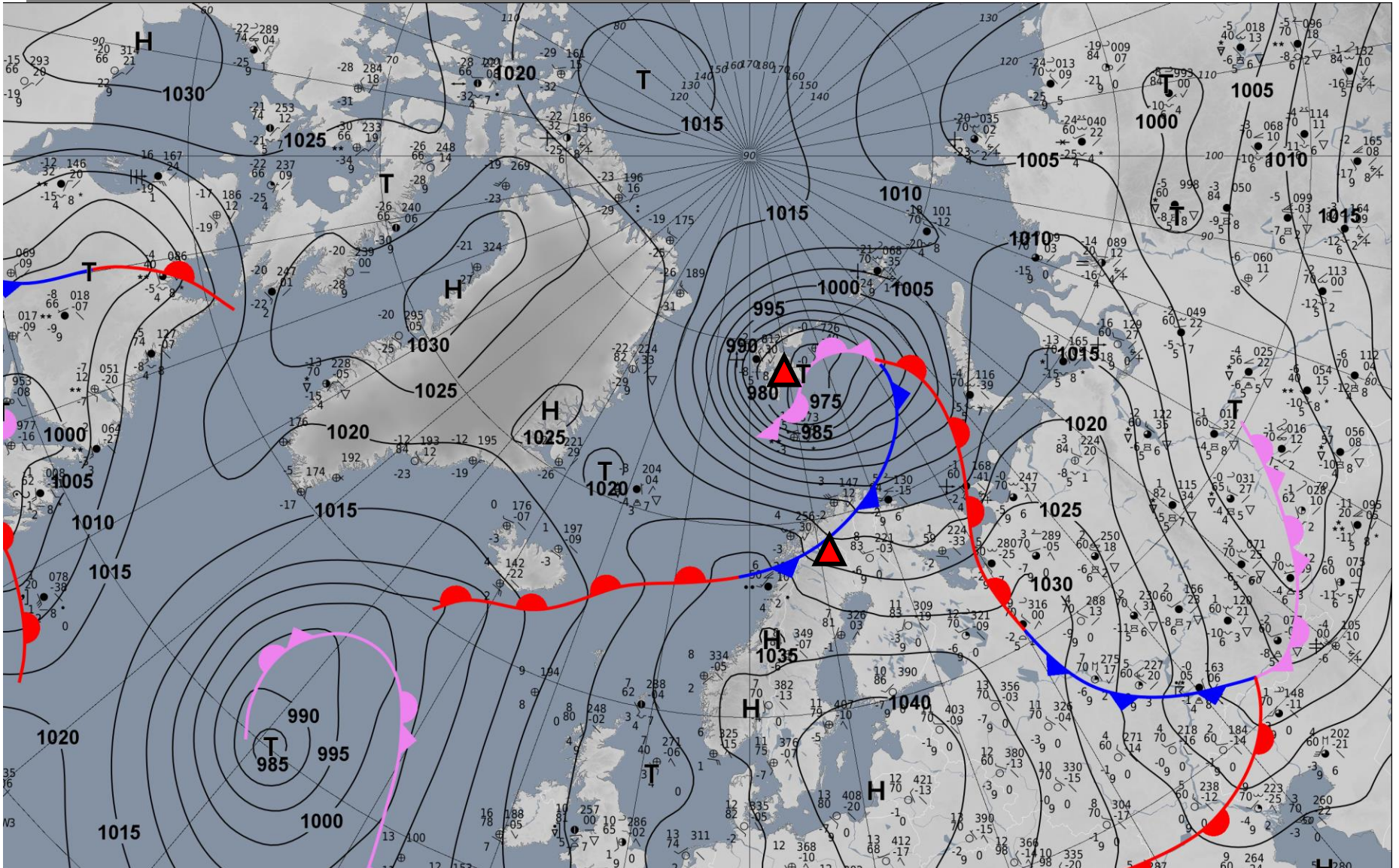


Weather briefing HALO-(AC)³

Monday, 2022-03-21, 17:00 LT

Surface Analysis
Monday, 2022-03-21 12 UTC
DWD

Monday, 2022-03-21 12 UTC



Surface wind development and precipitation

2022-03-21 00 UTC: 36 – 108h

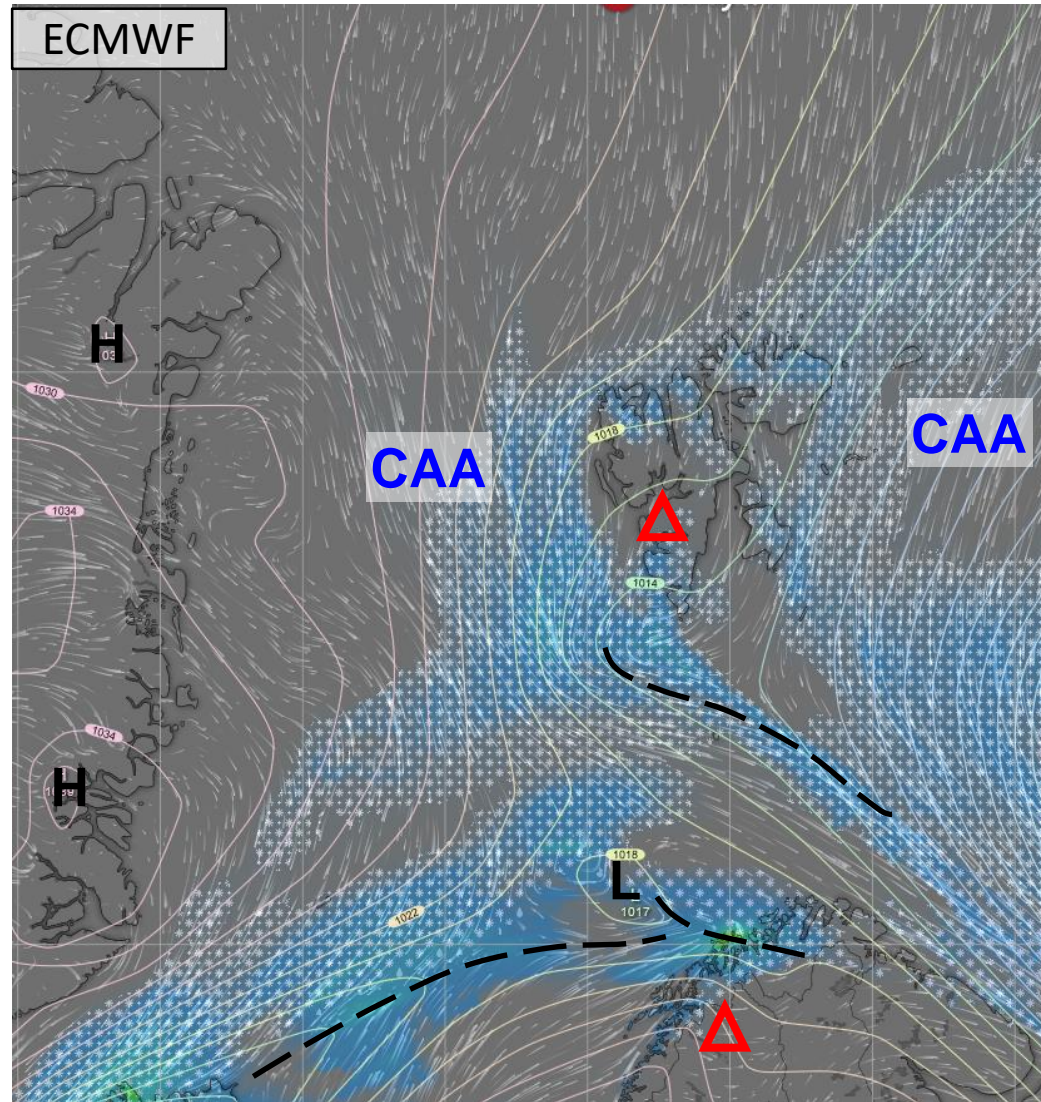
ECMWF & ICON

CAA: Cold Air Advection

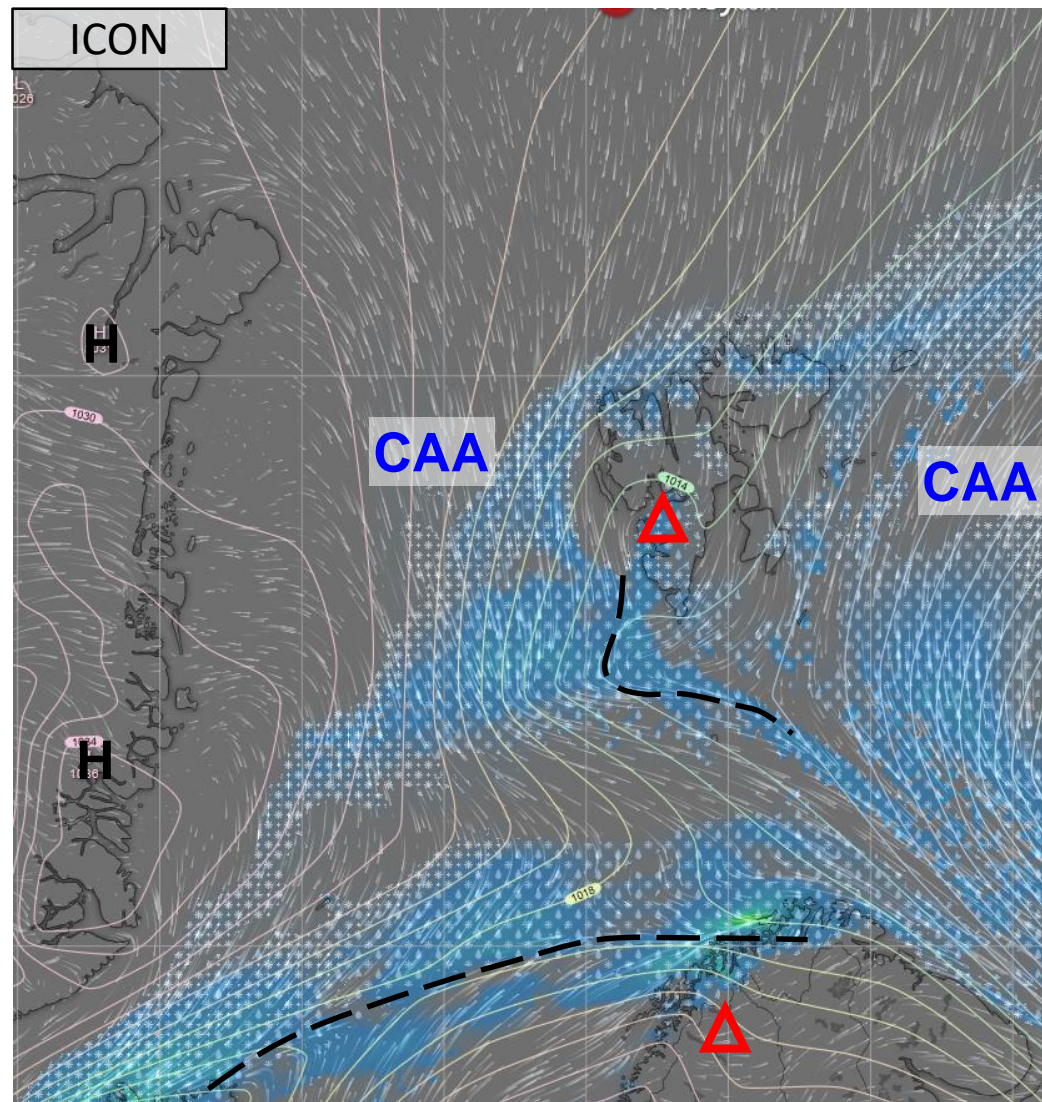
WAA: Warm Air Advection

Tuesday, 2022-03-22 12 UTC (+36h)

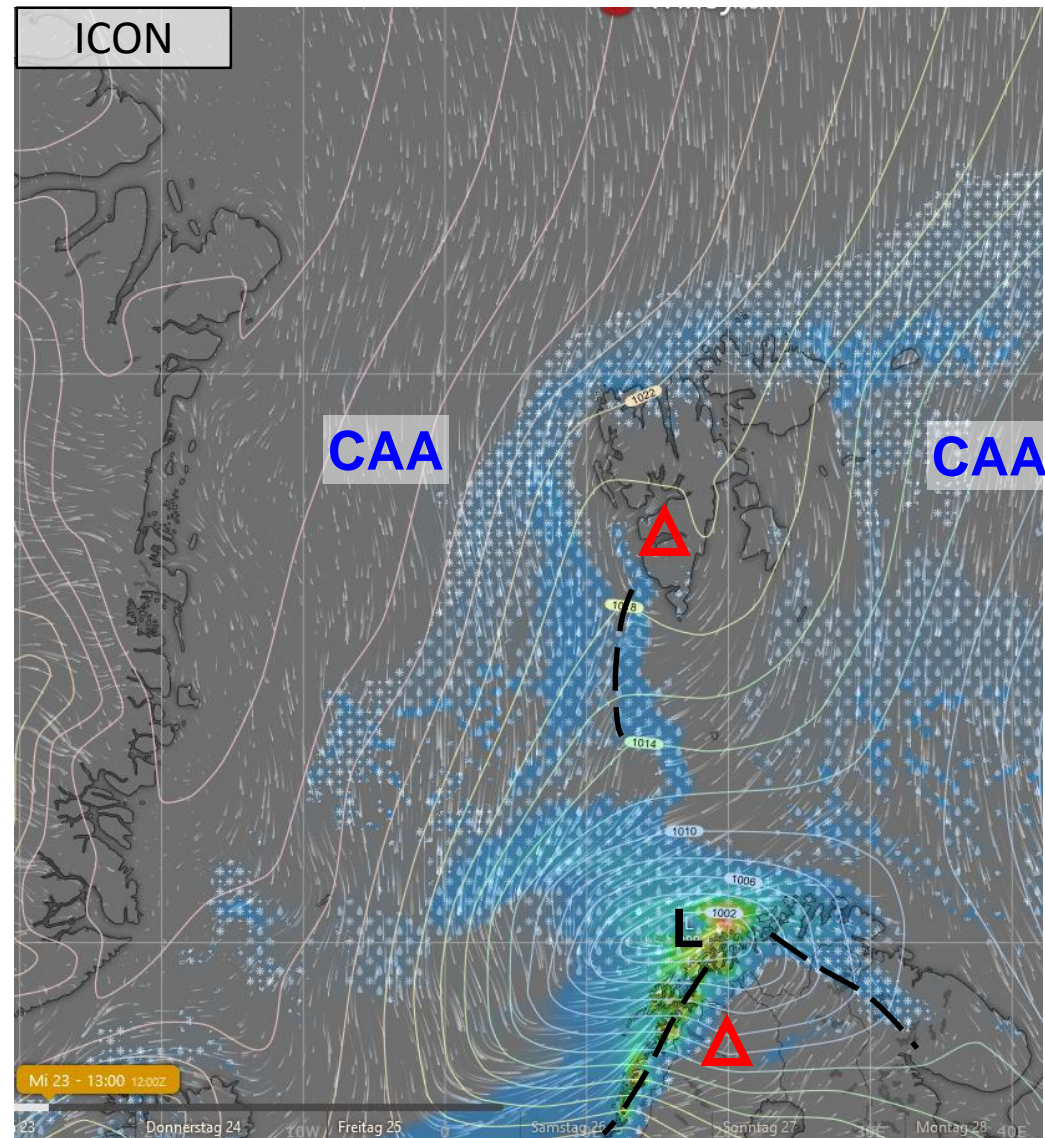
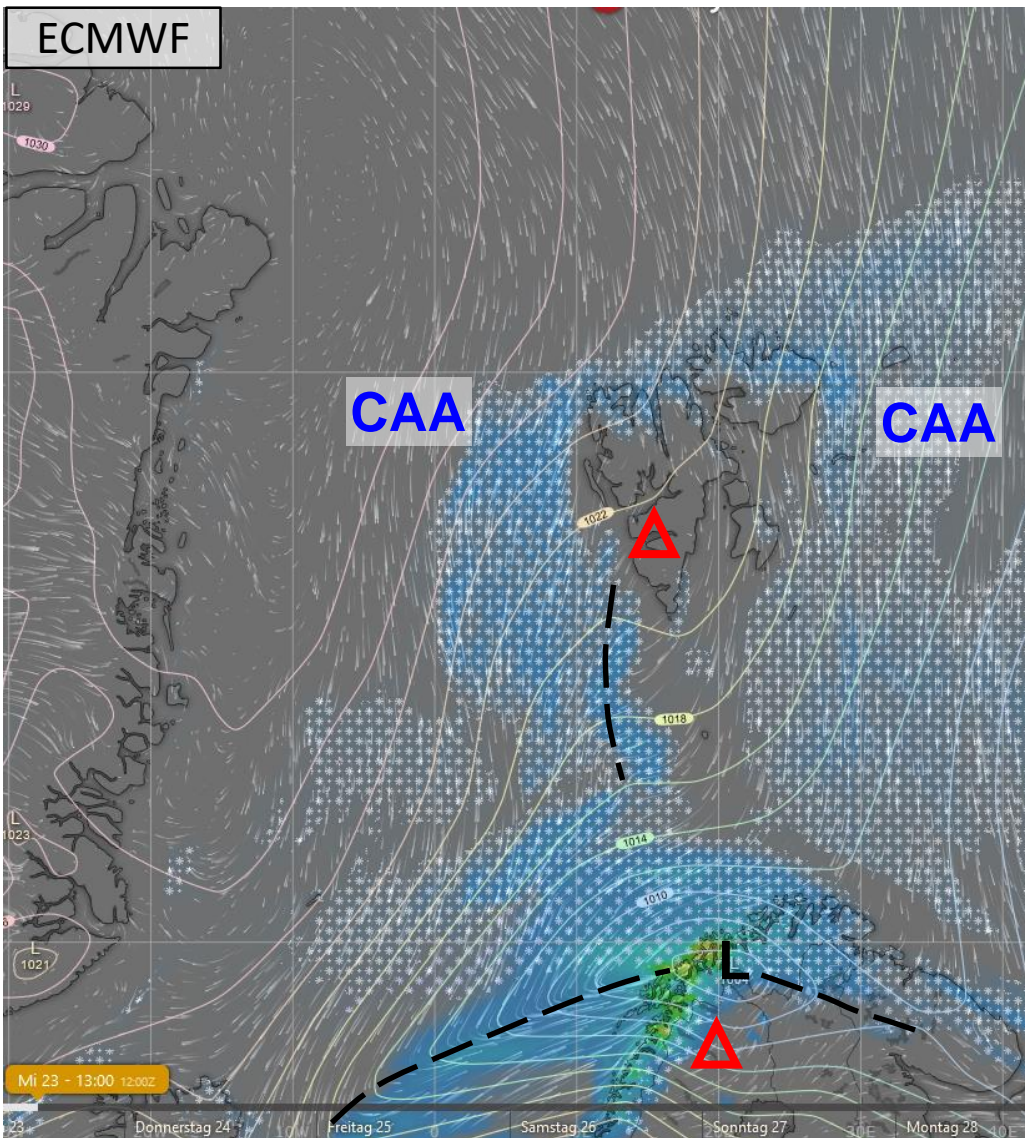
ECMWF



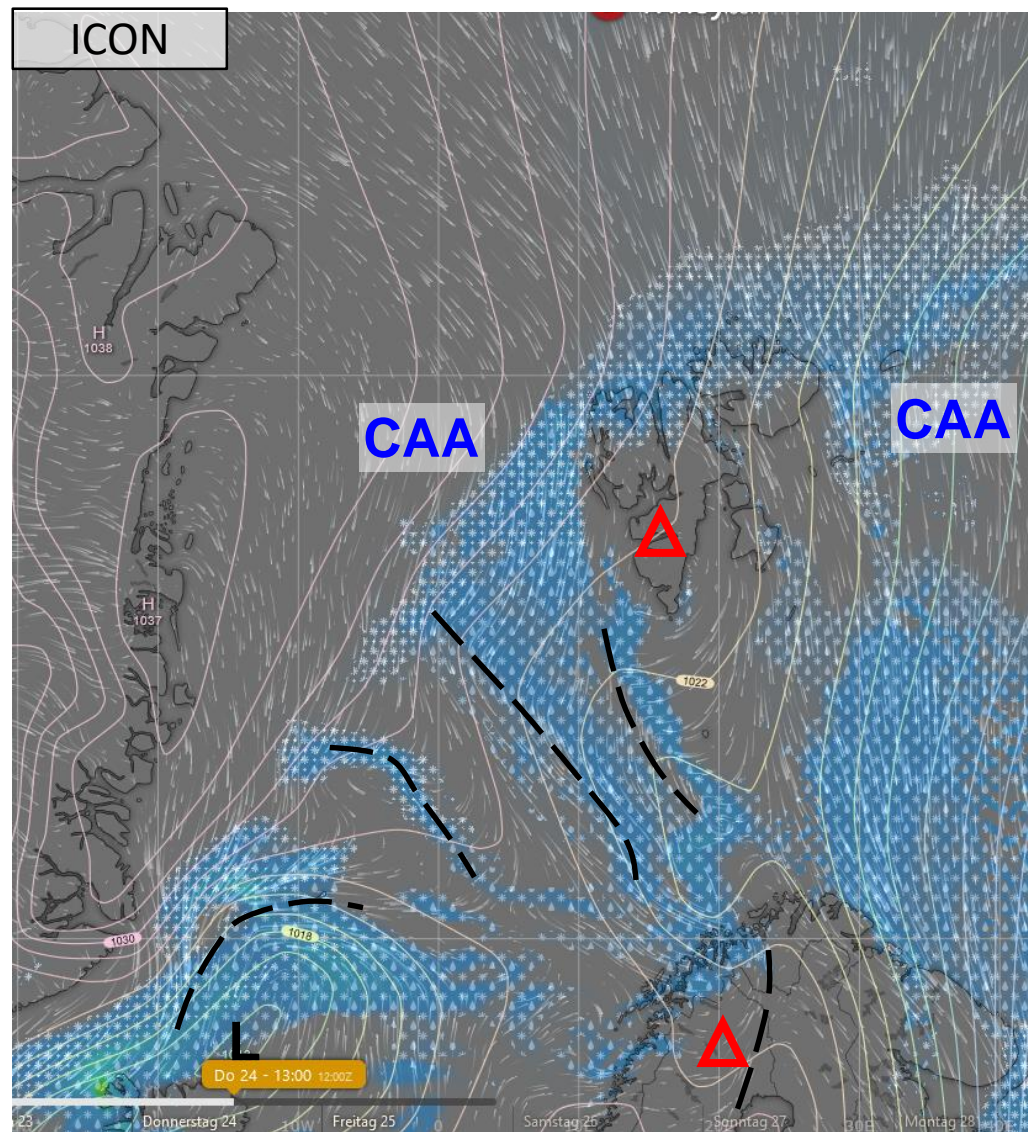
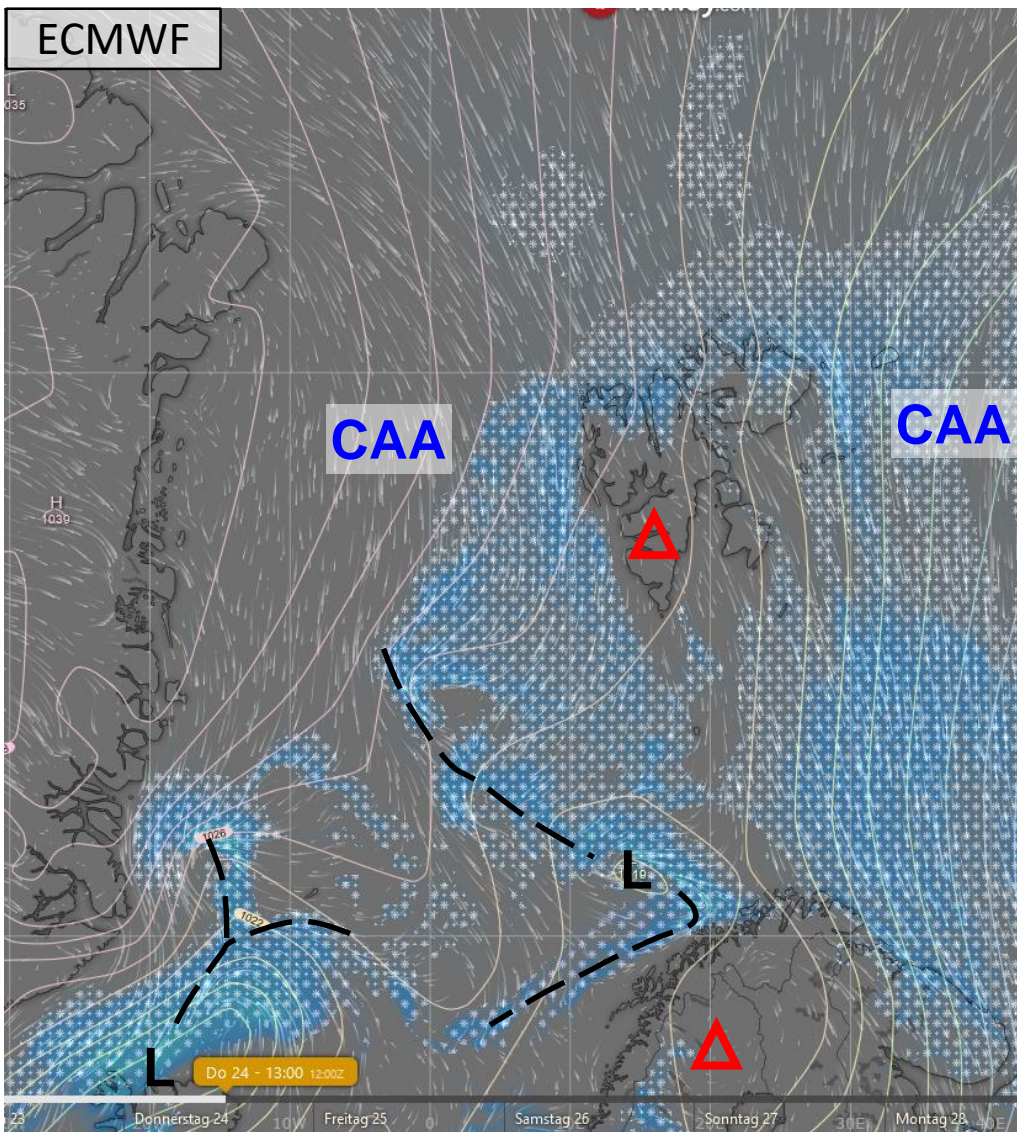
ICON



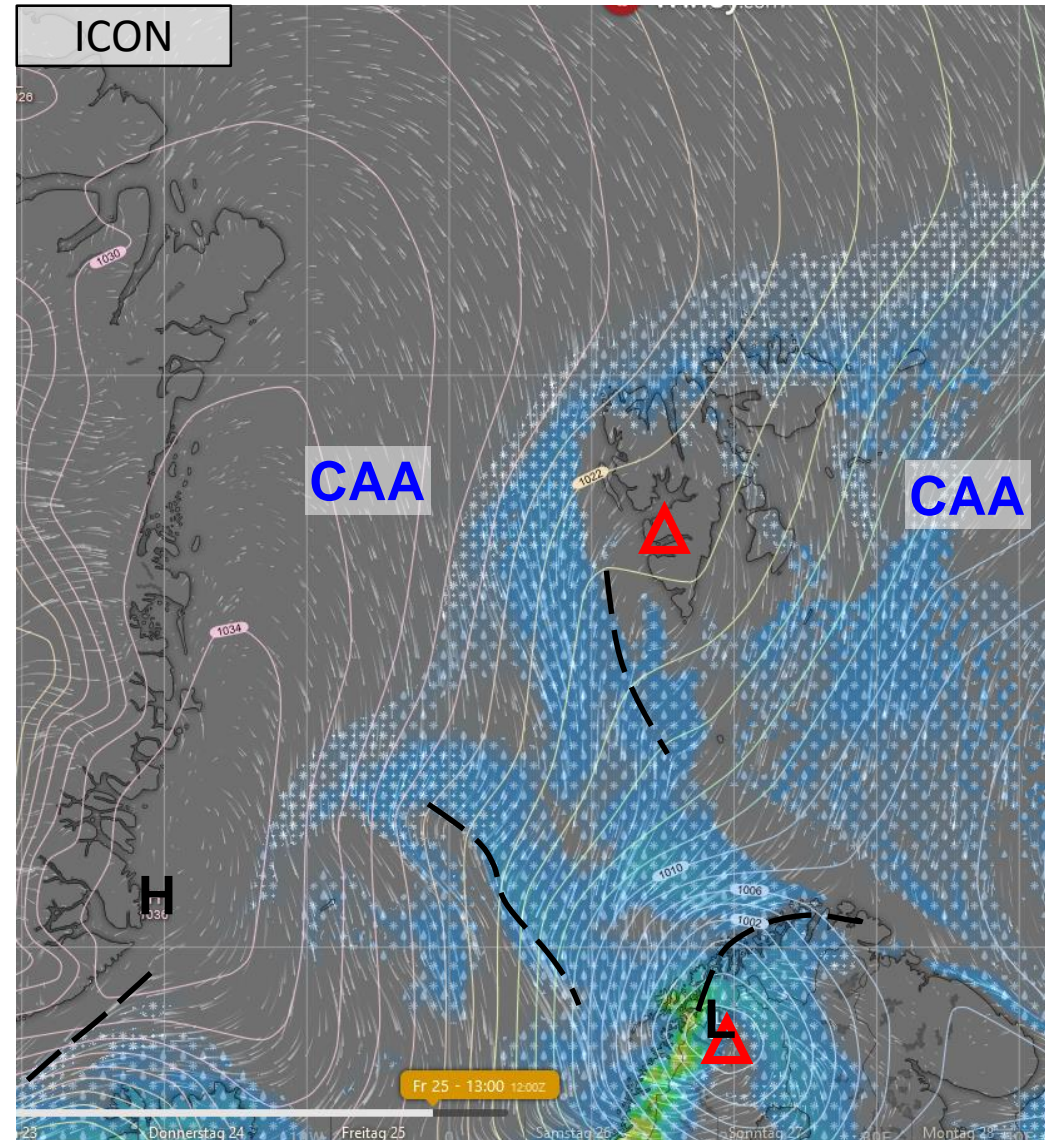
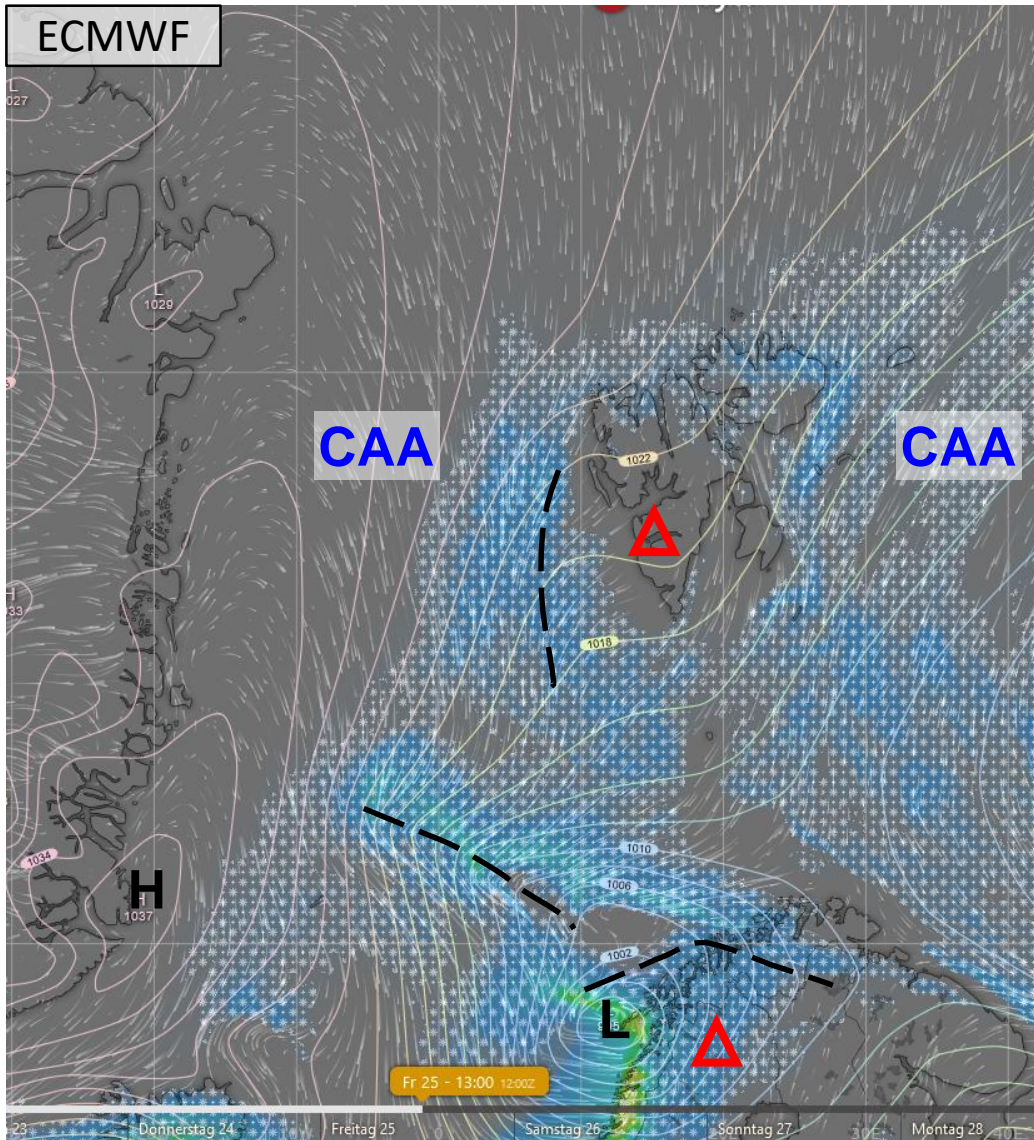
Wednesday, 2022-03-23 12 UTC (+60h)



Thursday, 2022-03-24 12 UTC (+84h)



Friday, 2022-03-25 12 UTC (+108h)



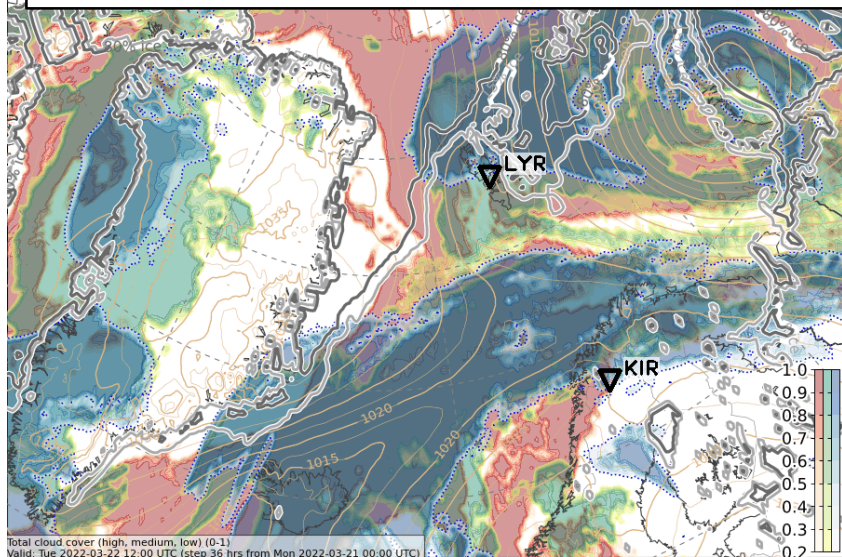
Cloud cover, CAO index, Airmasses, IVT

2022-03-21 00 UTC: 36 – 108h

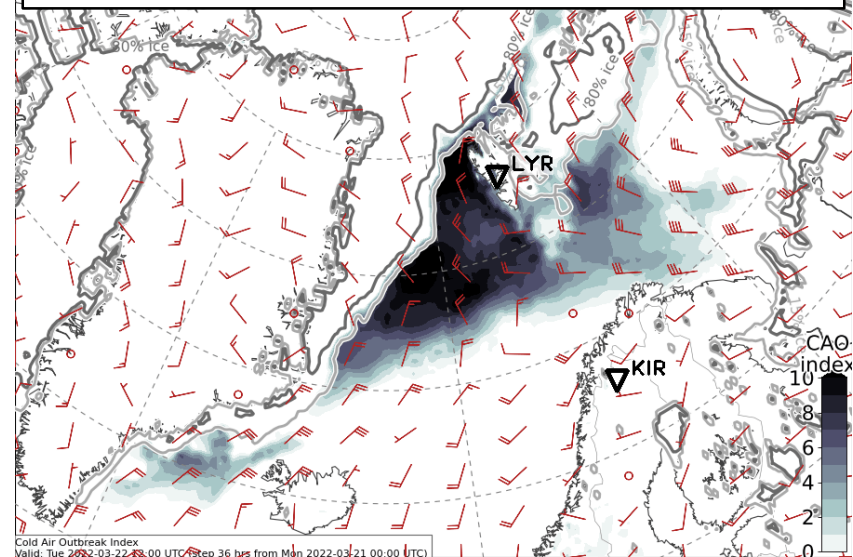
Cloud cover & 850hPa θ_e & CAO & IVT

Tue, 2022-03-22 12 UTC (+36h)

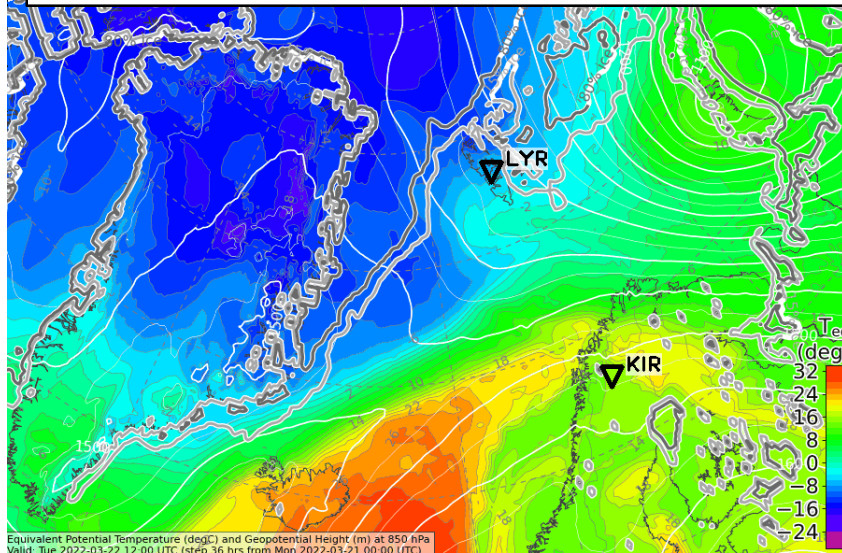
Total cloud cover



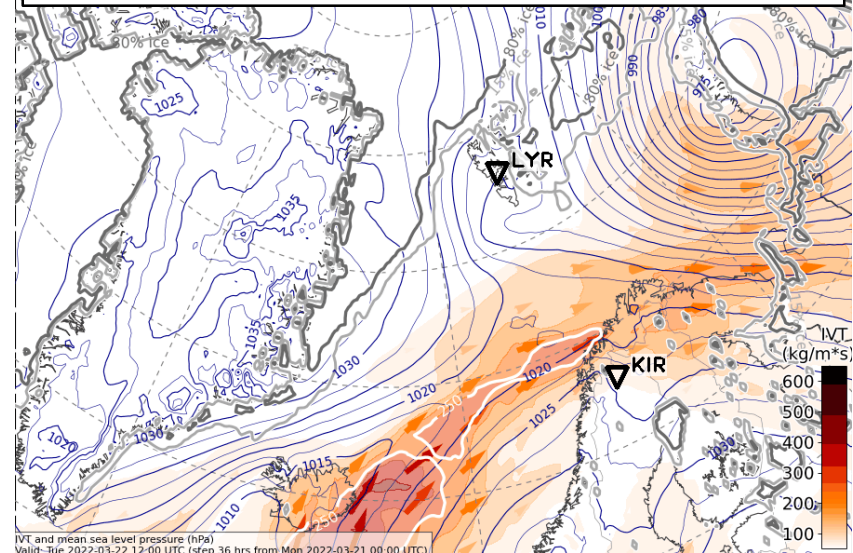
CAO Index



850 hPa Equiv. pot. temperature

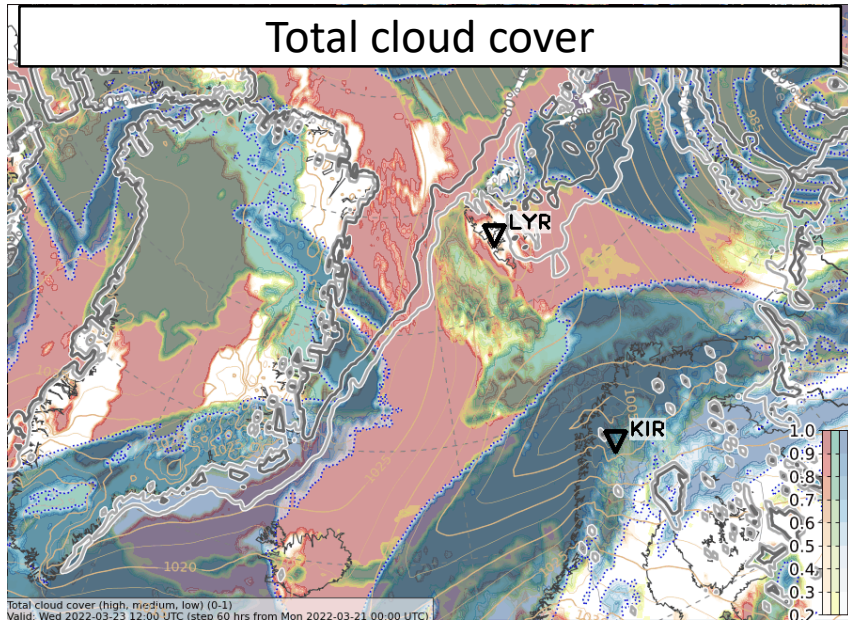


Integrated water vapour transport

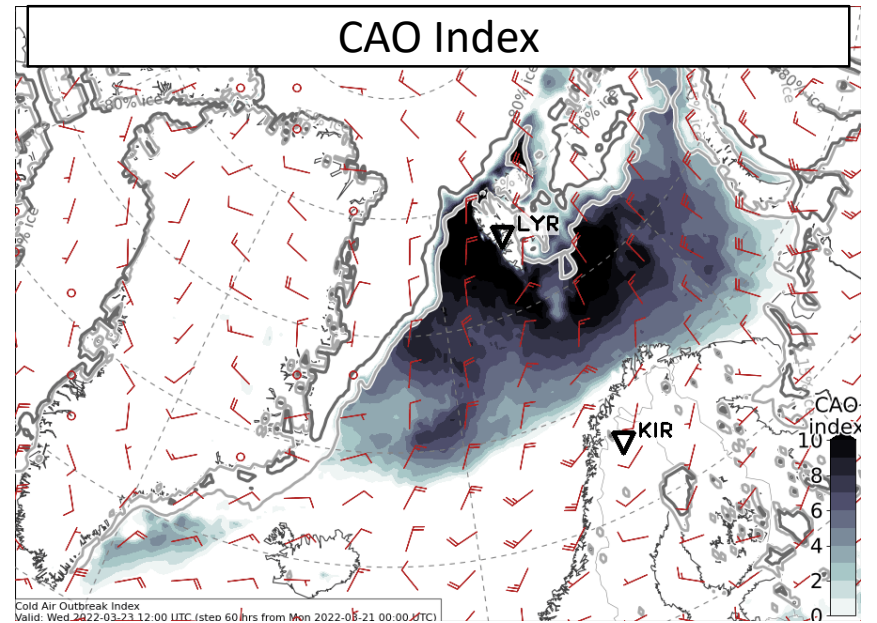


Wed, 2022-03-23 12 UTC (+60h)

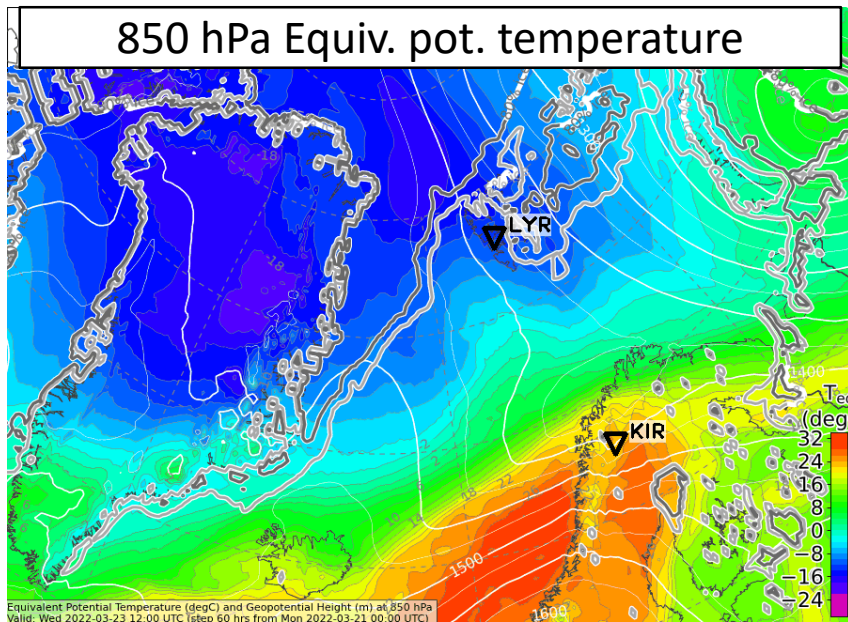
Total cloud cover



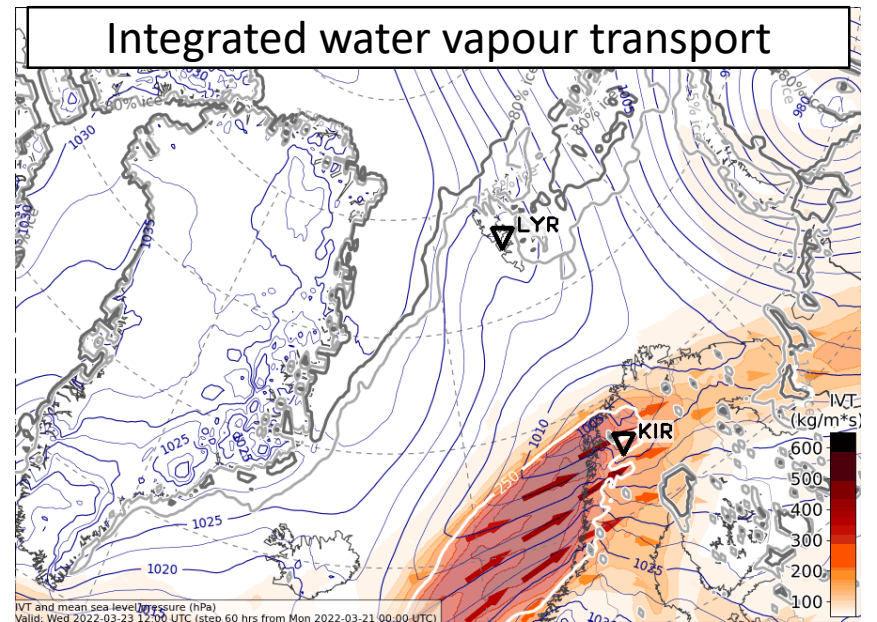
CAO Index



850 hPa Equiv. pot. temperature

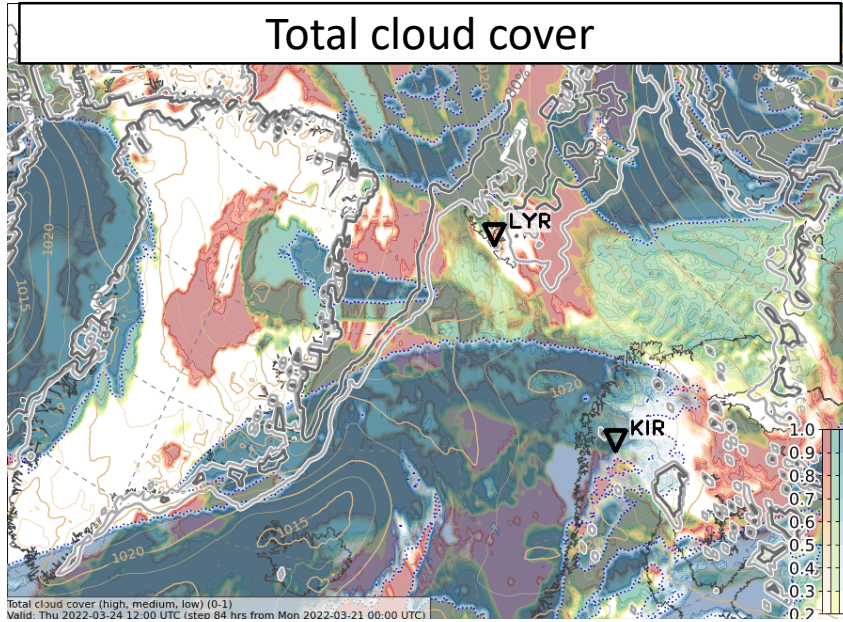


Integrated water vapour transport

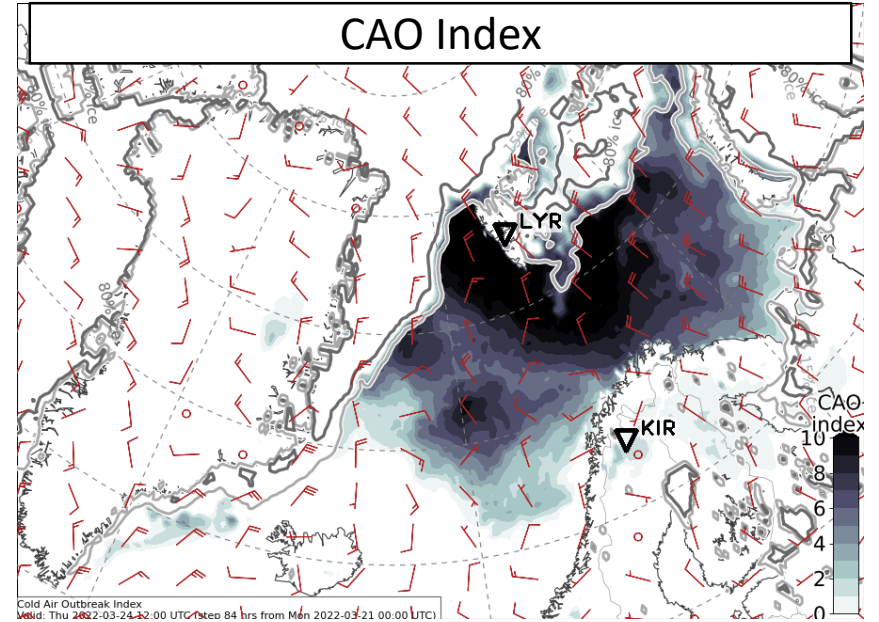


Thu, 2022-03-24 12 UTC (+84h)

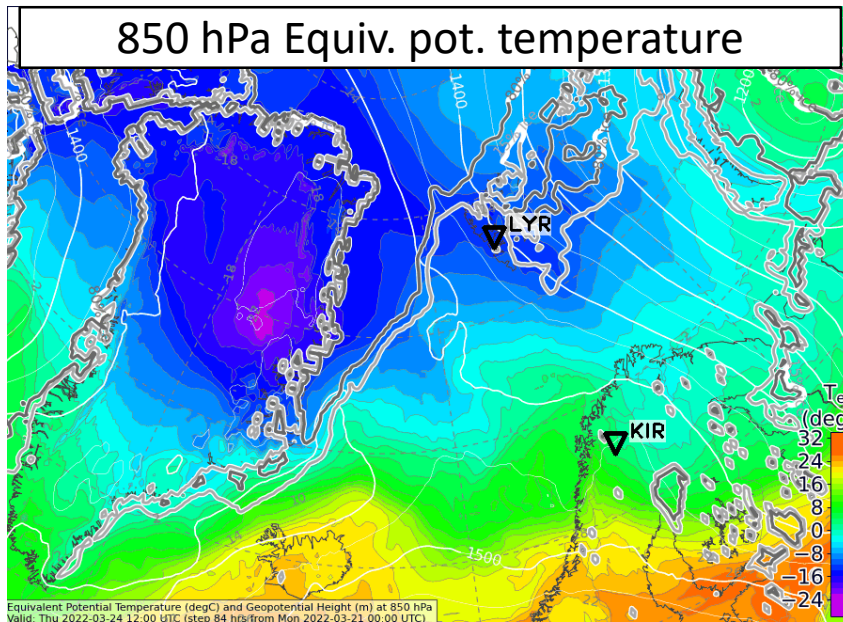
Total cloud cover



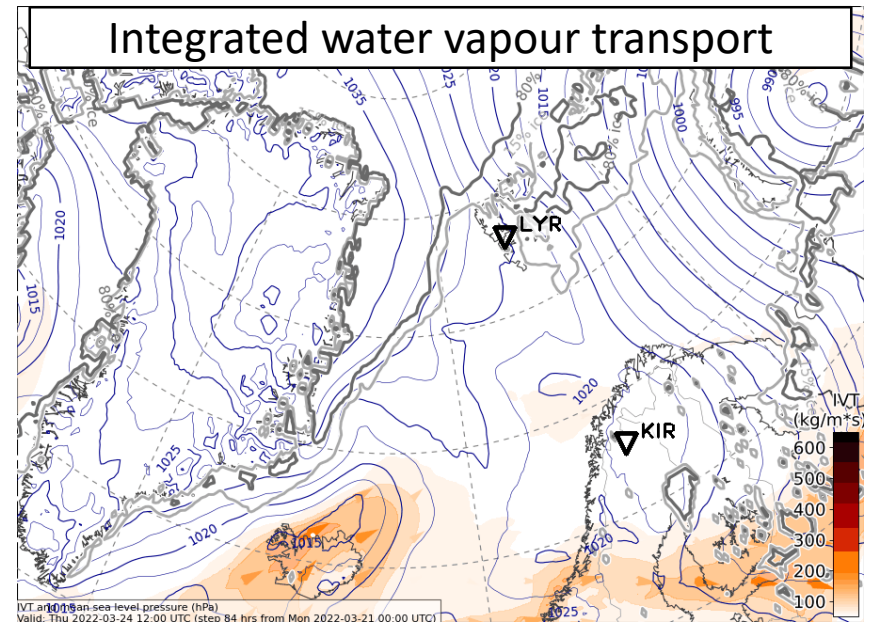
CAO Index



850 hPa Equiv. pot. temperature

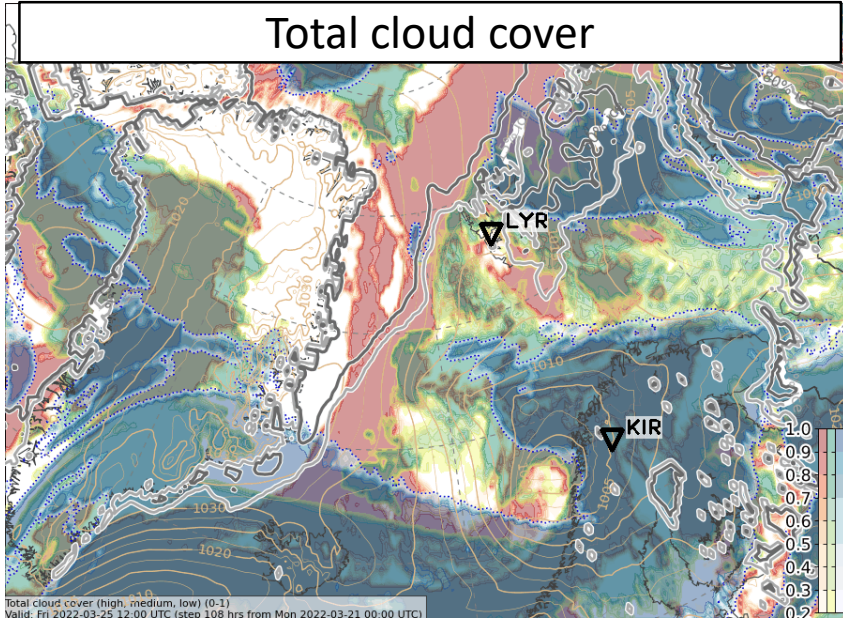


Integrated water vapour transport

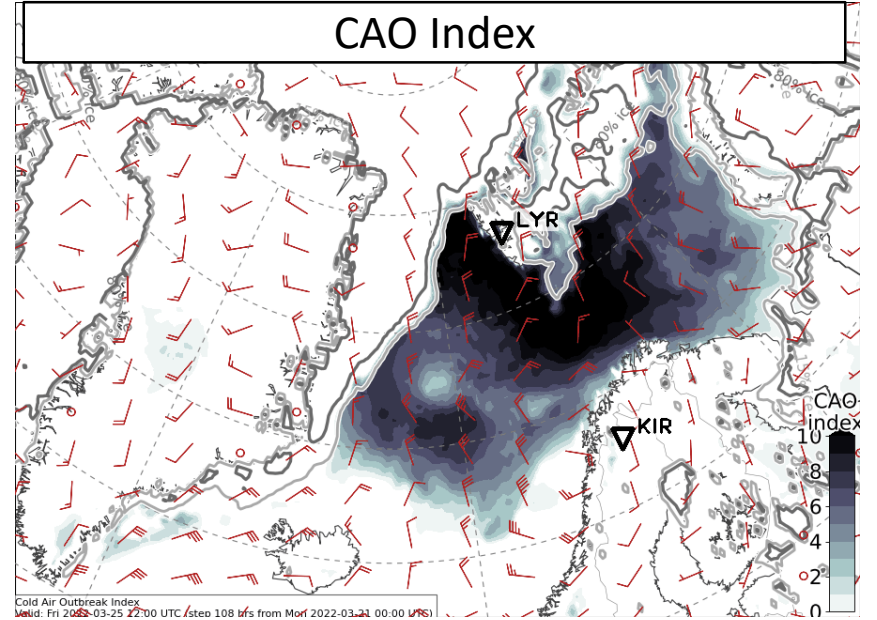


Fri, 2022-03-25 12 UTC (+108h)

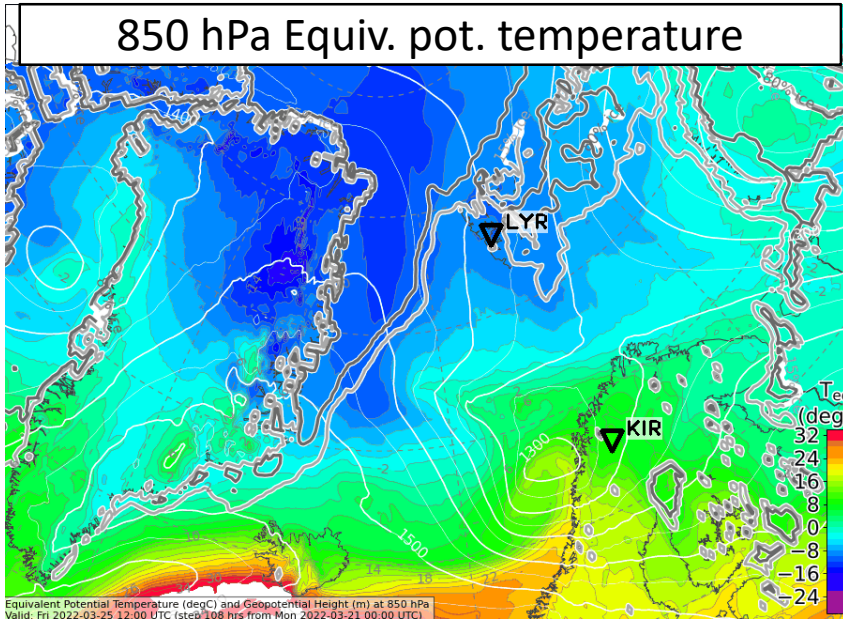
Total cloud cover



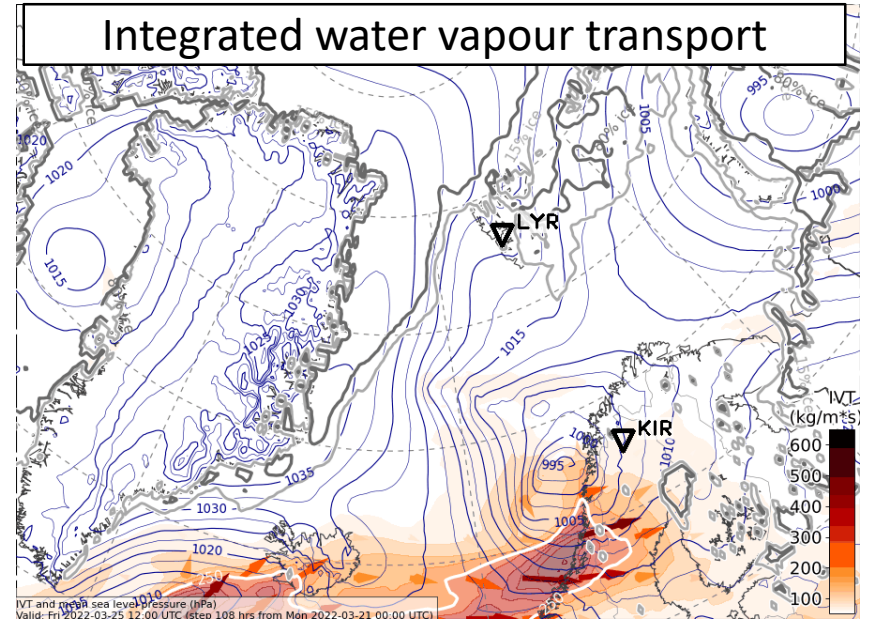
CAO Index



850 hPa Equiv. pot. temperature



Integrated water vapour transport



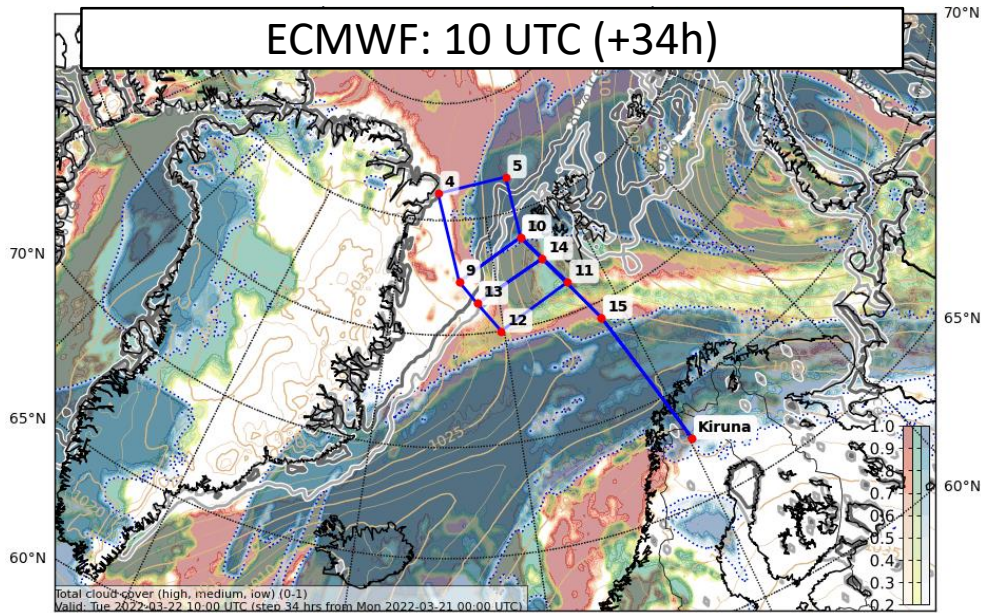
Cloud cover Fram Strait during CAO conditions

2022-03-21 00 UTC: 36 – 64h

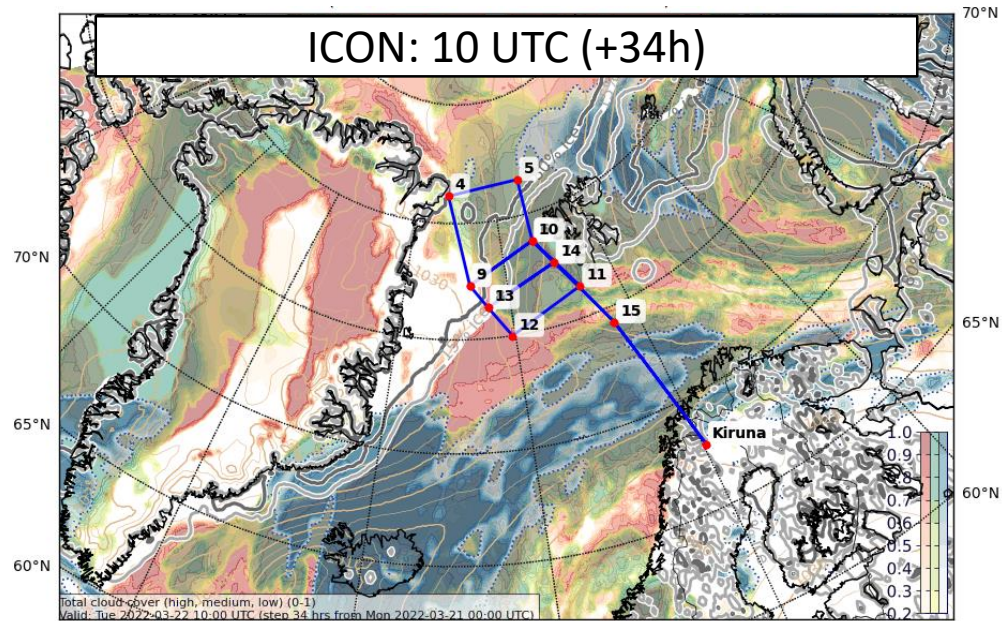
ECMWF & ICON

Tue, 2022-03-22

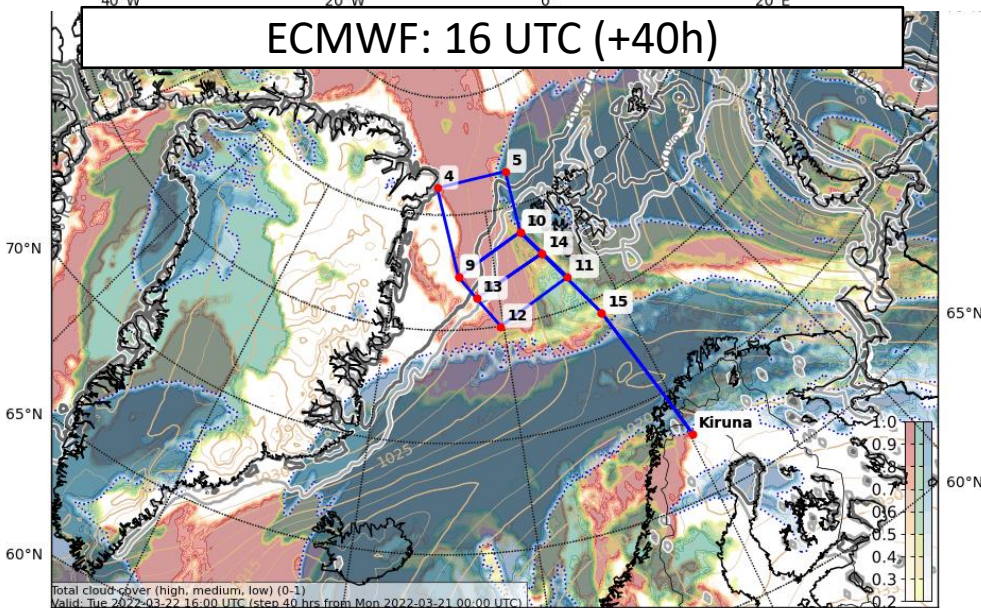
ECMWF: 10 UTC (+34h)



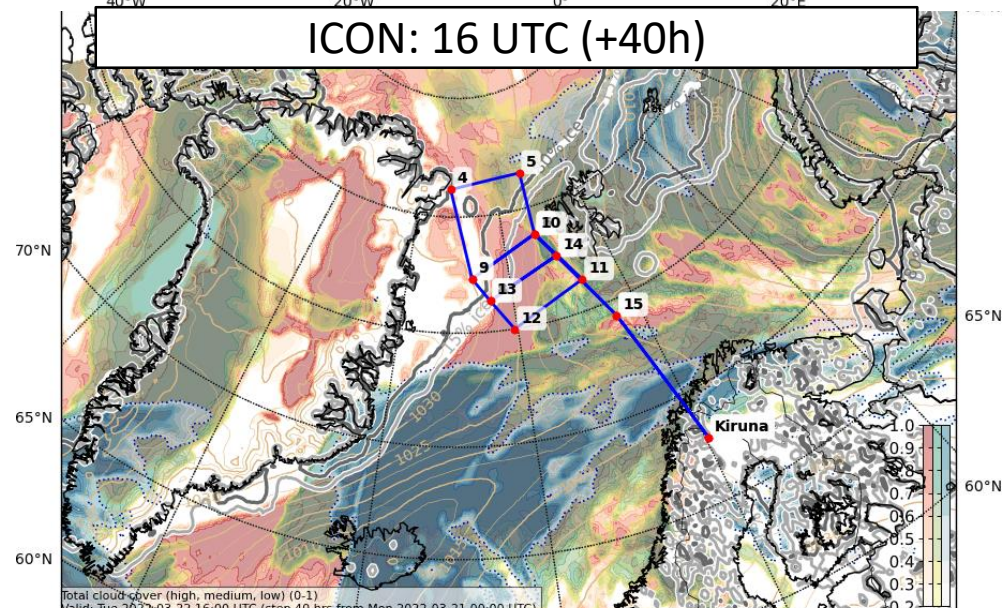
ICON: 10 UTC (+34h)



ECMWF: 16 UTC (+40h)

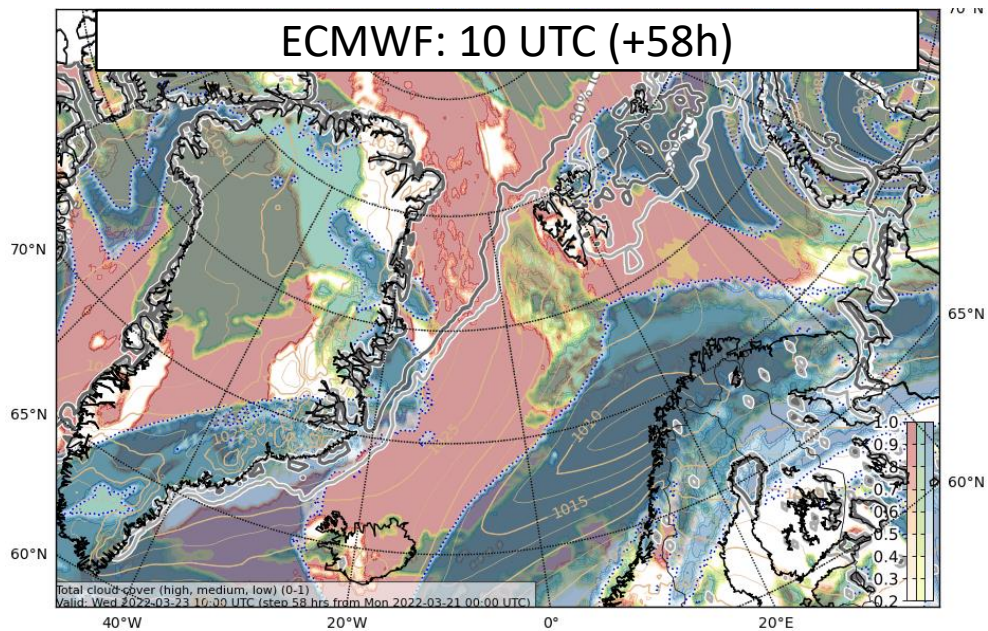


ICON: 16 UTC (+40h)

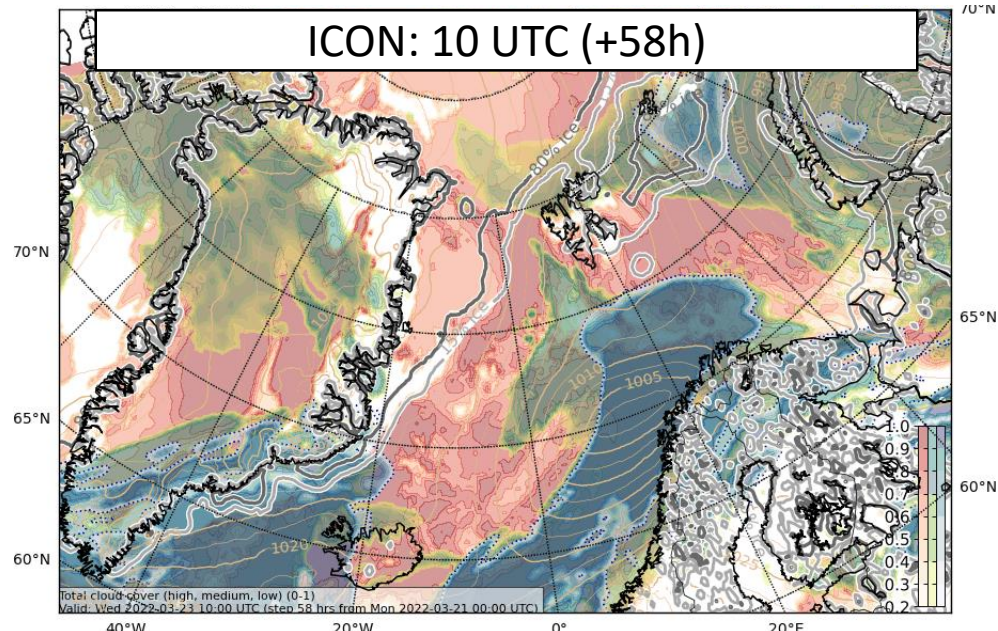


Wed, 2022-03-23

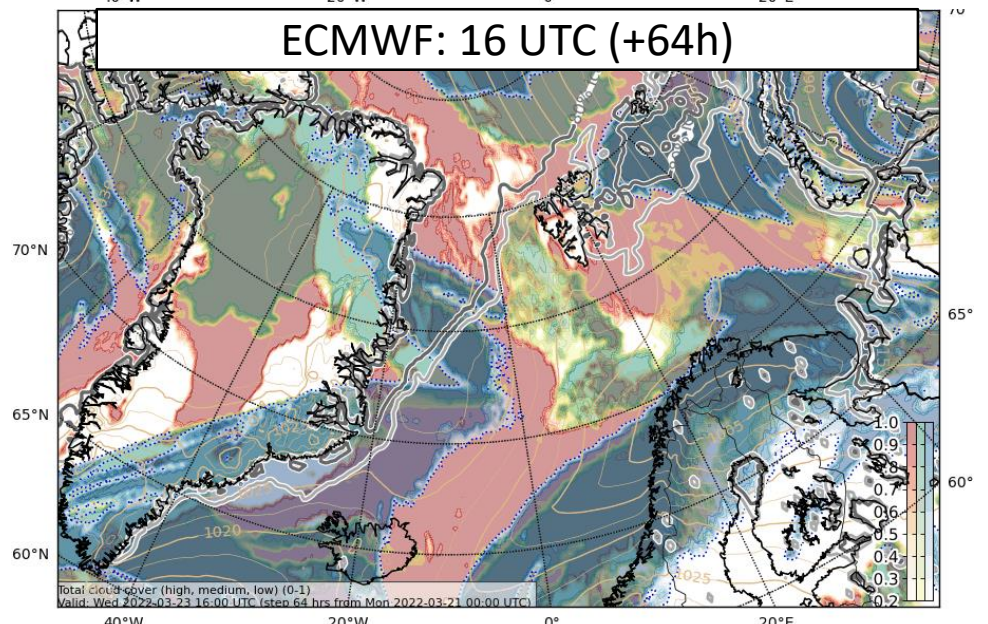
ECMWF: 10 UTC (+58h)



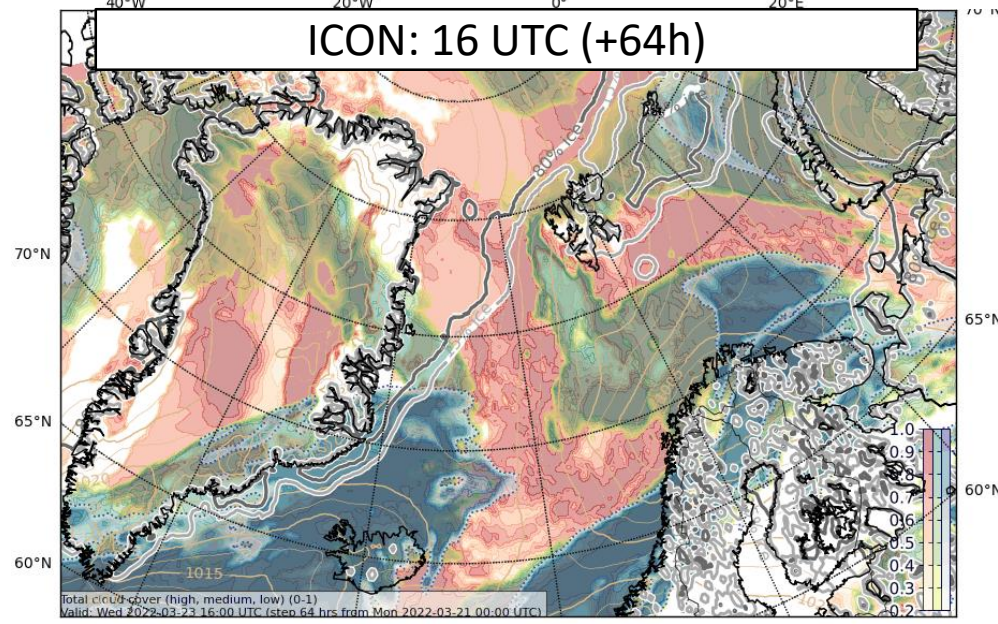
ICON: 10 UTC (+58h)



ECMWF: 16 UTC (+64h)

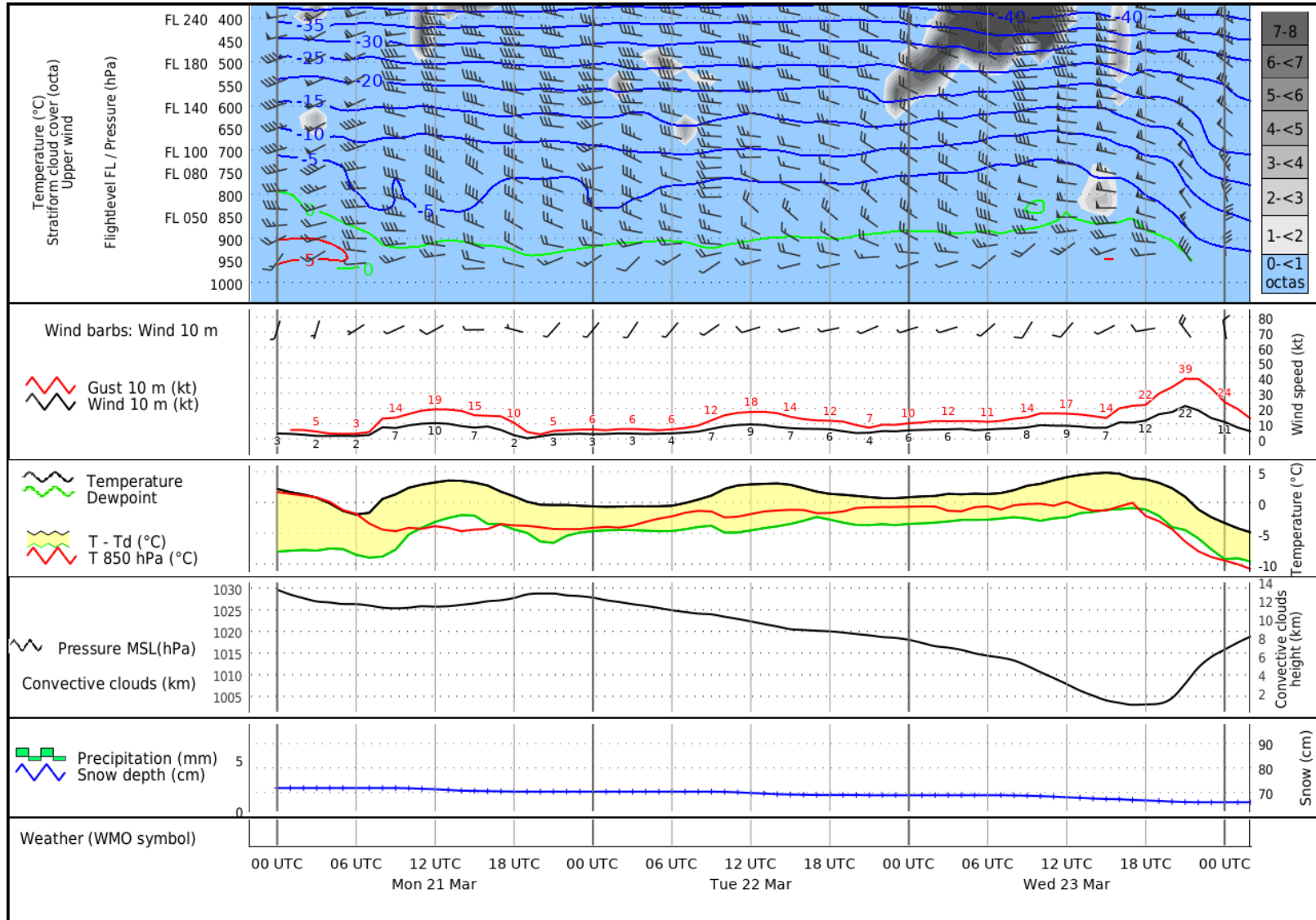


ICON: 16 UTC (+64h)



Airport meteograms & local weather at Svalbard

Kiruna:



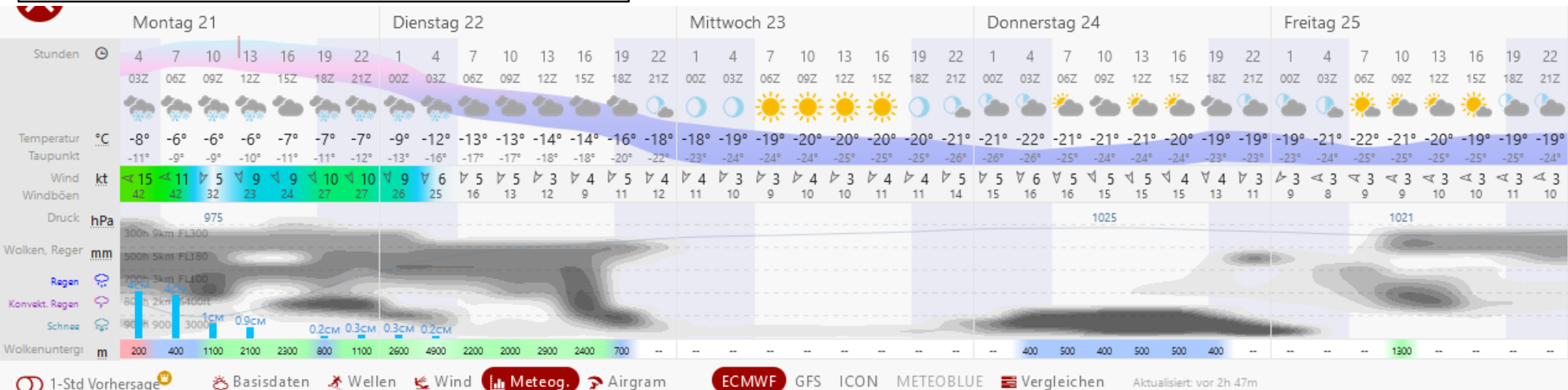
Meteorgram Kiruna (ESNQ), 460 m, LAT/LON: N 67°49' E 20°20'

ICON-EU 2022-03-21 00 UTC, model height: 460 m

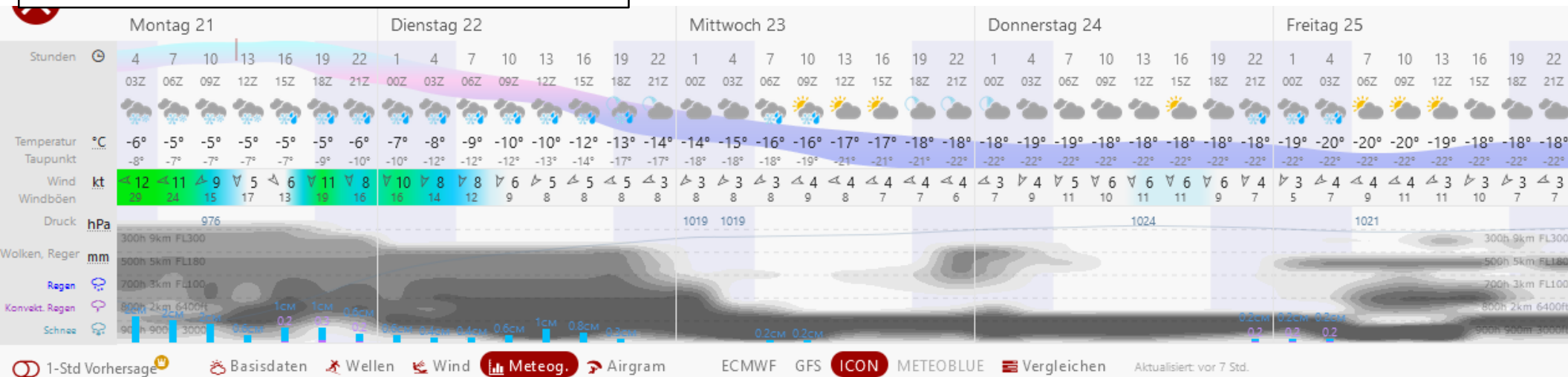


Longyearbyen:

ECWMF

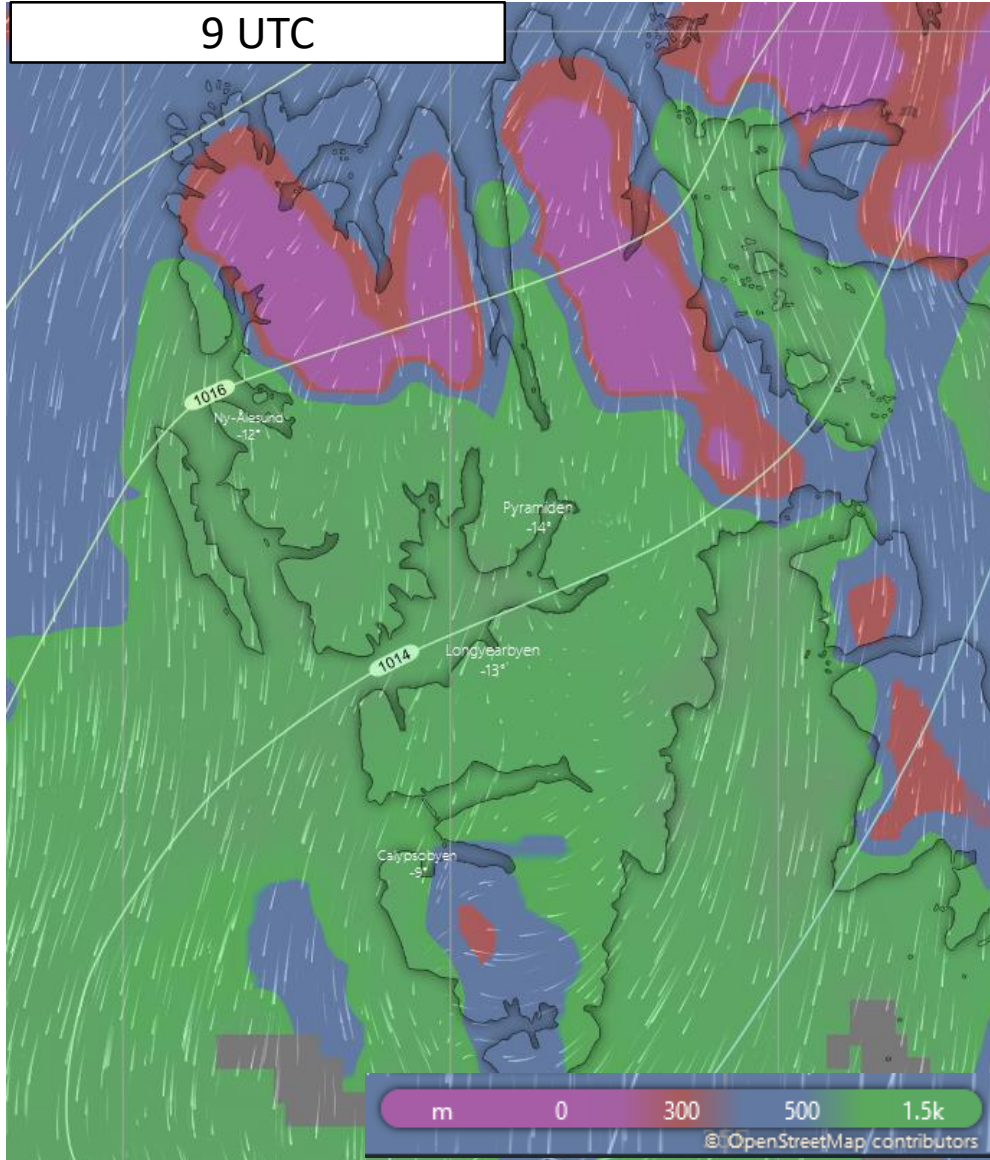


ICON

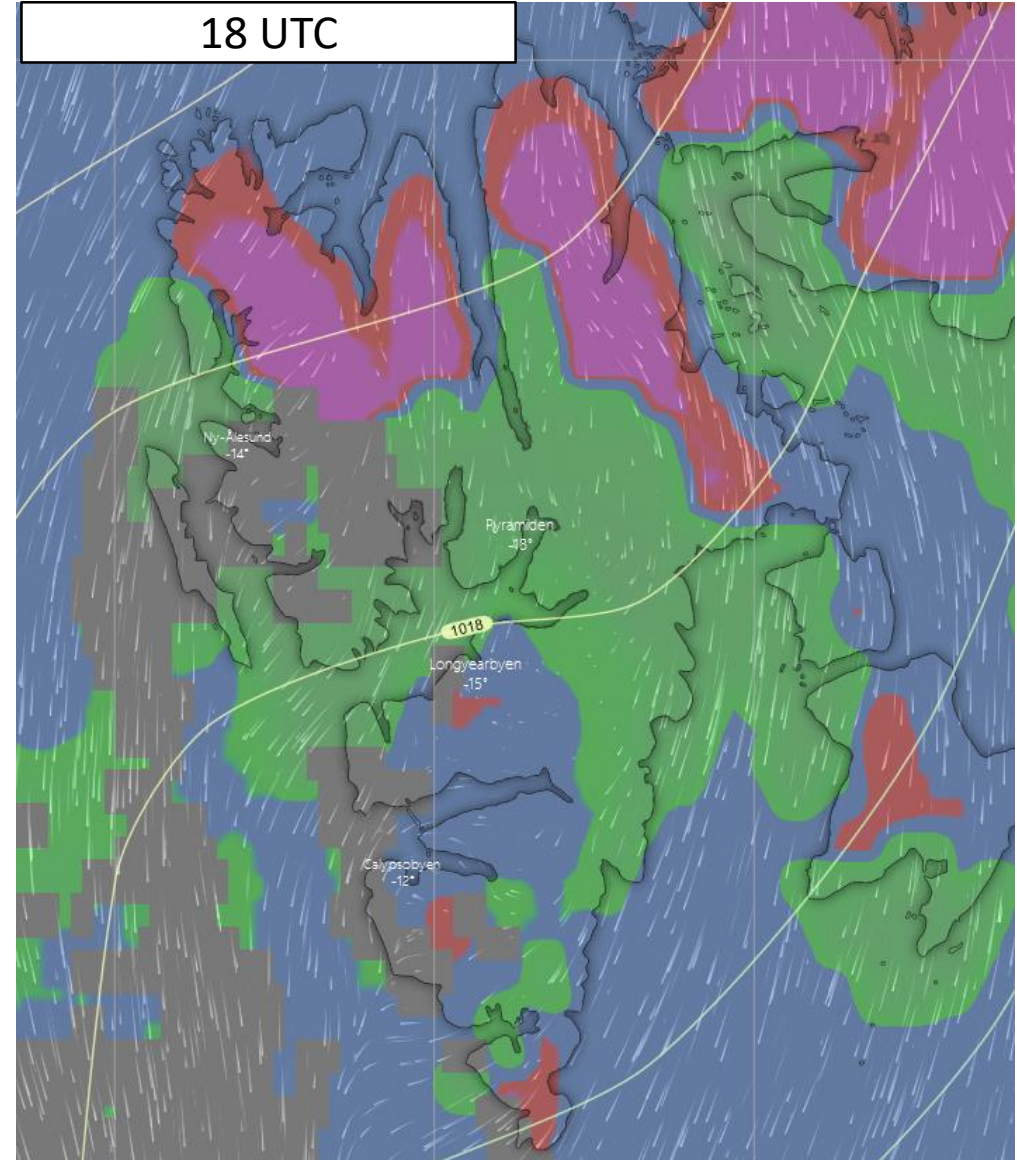


Tue, 2022-03-22, Cloud base Height

9 UTC



18 UTC



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 **42** minutes ago, at **14:20** UTC

Wind **19** kt from the **North/Northwest**

Temperature **-3°C**

Humidity **80%**

Pressure **982** hPa

Visibility **10** km or more

Few clouds at a height of **1000** ft
Scattered clouds at a height of **2000** ft
Broken clouds at a height of **4000** ft

light snow showers

[Change units](#)

METAR: ENSB 211420Z 33019KT 9999
-SHSN FEW010 SCT020 BKN040 M03/M06
Q0982 TEMPO 32020G30KT RMK WIND
1400FT 34021KT

Time: 16:02 (15:02 UTC)

Forecast

Forecast valid from 21 at 12 UTC to 22 at 12 UTC

Wind **15** kt from the **North**

Visibility **10** km or more

Few clouds at a height of **1000** ft
Broken clouds at a height of **2000** ft

Temporary
from 21 at 12 UTC to 21 at 24 UTC

Visibility: **4000** m

at a height of **1200** ft

light snow showers

Temporary
from 21 at 12 UTC to 21 at 17 UTC

Wind **15** kt from the **North** with gusts up to **25** kt

Temporary
from 21 at 17 UTC to 21 at 24 UTC

Wind **25** kt from the **North/Northwest** with gusts up to **35** kt

TAF: ENSB 2112/2212 35015KT 9999
FEW010 BKN020 TEMPO 2112/2124 4000
-SHSN VV012 TEMPO 2112/2117
35015G25KT TEMPO 2117/2124
34025G35KT

Summary

Summary: Weather Briefing 2022-03-21, 17:00 LT

- **Tuesday, 2022-03-22:**
 - Low has moved SE so that its influence on LYR weakens, but maybe still some precipitation
 - Cold air advection East and West of Svalbard with northerly flow
- **Wednesday, 2022-03-23:**
 - Region of strongest cold air advection West of Svalbard
 - Northerly flow
 - still low clouds possible near LYR
 - Low pressure system near Kiruna
- **Thursday, 2022-03-24:**
 - Cold air advection now especially over Barents Sea
 - Over western Fram Strait, more diffusive flow, maybe formation of Polar low(s)
- **Friday, 2022-03-25:**
 - Cold air advection especially over Barents Sea with NE winds
 - Possibility of CAA towards Norwegian Sea
 - Low pressure system near Kiruna