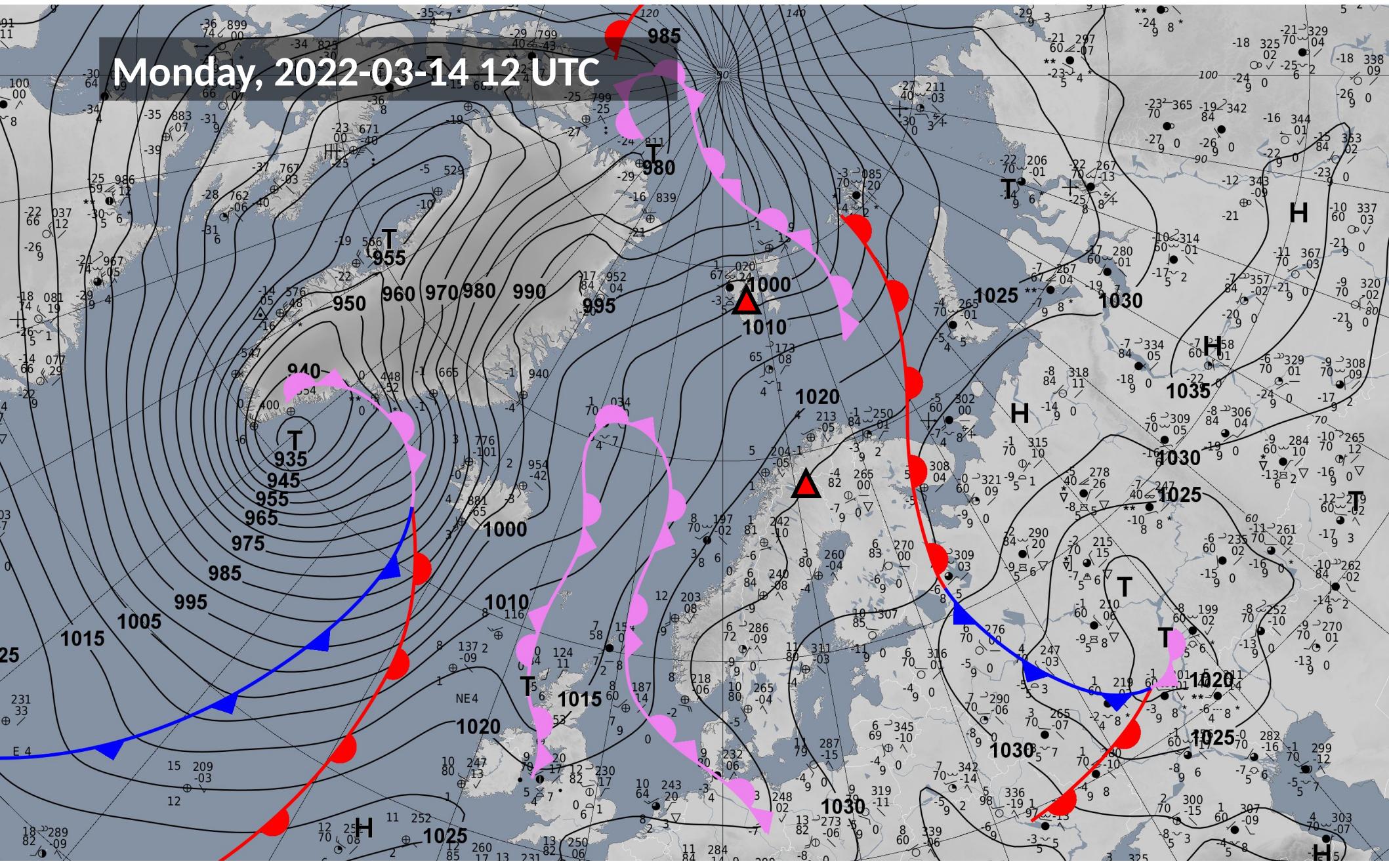


Weather briefing HALO-(AC)³

Monday, 2022-03-14, 17:00 LT

Surface Analysis
Monday, 2022-03-14 12 UTC
DWD

Monday, 2022-03-14 12 UTC



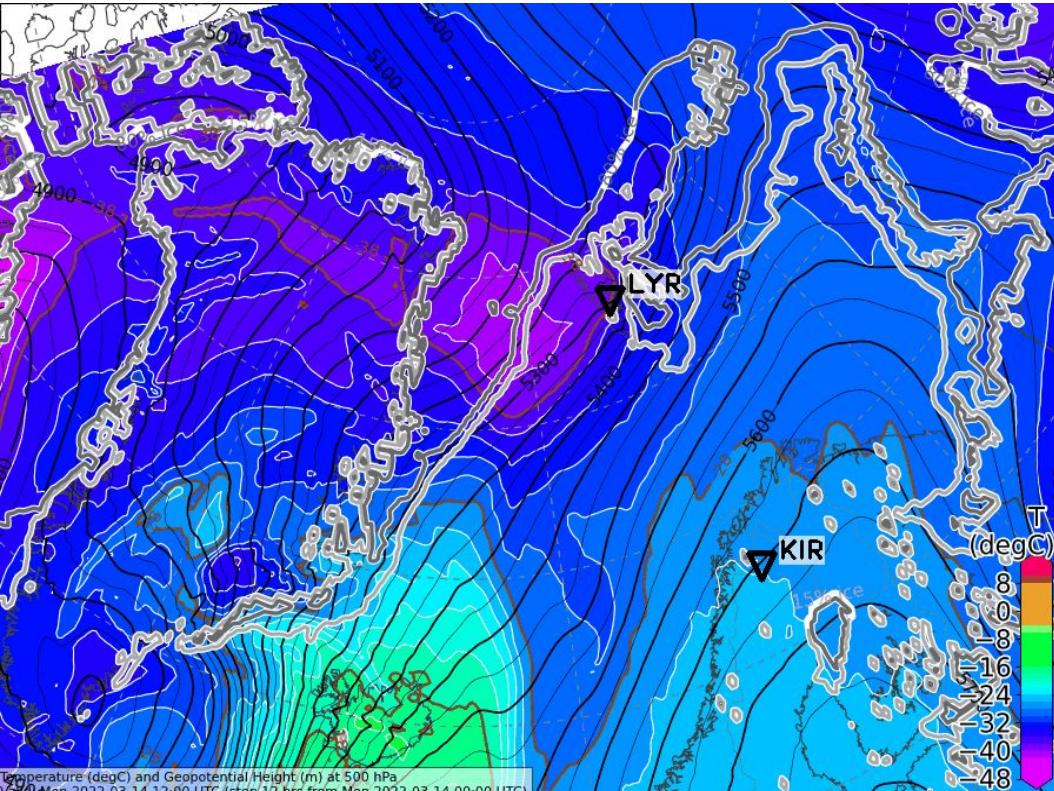
Circulation pattern development

2022-03-14 00 UTC: 12 – 132h

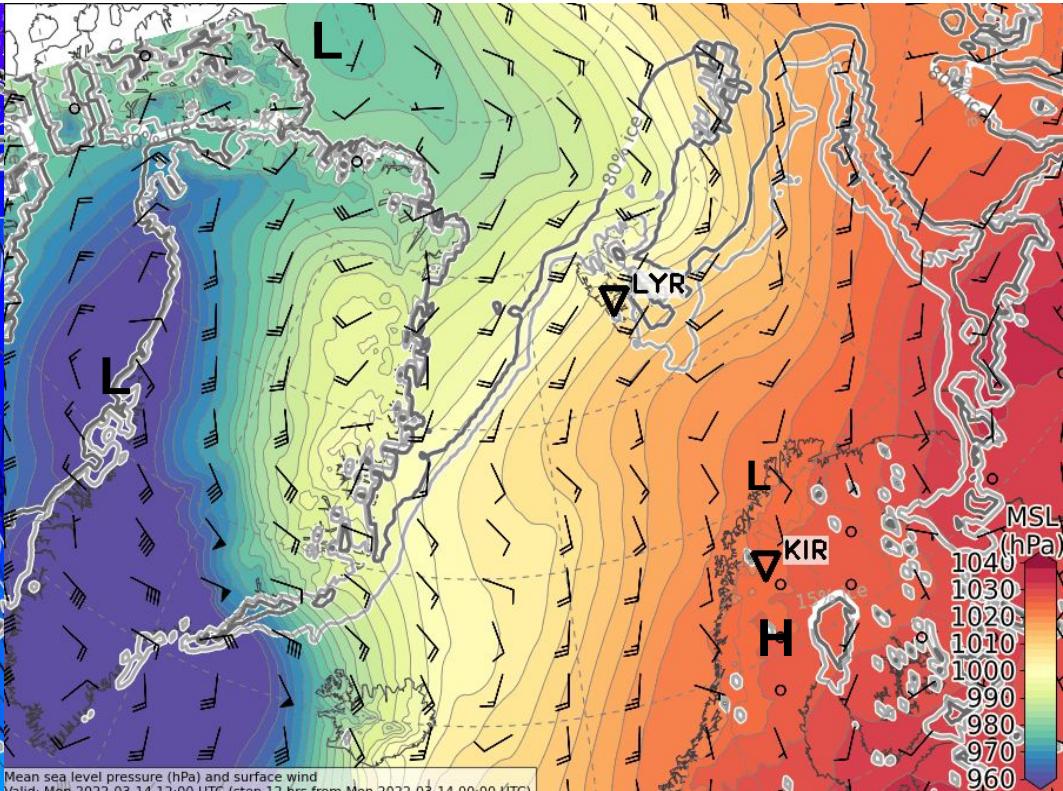
500 hPa Geopot & T
Sea level pressure

Monday, 2022-03-14 12 UTC (+12h)

500 hPa Geopot. (lines) & T (colours)

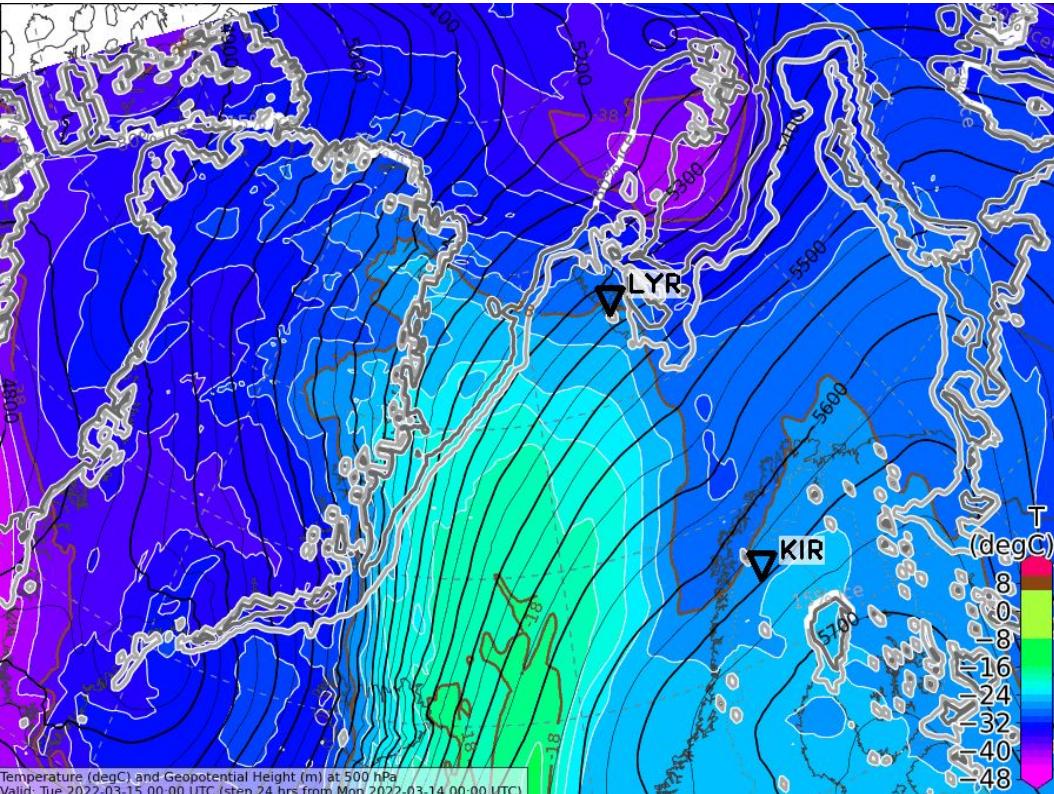


Sea level pressure

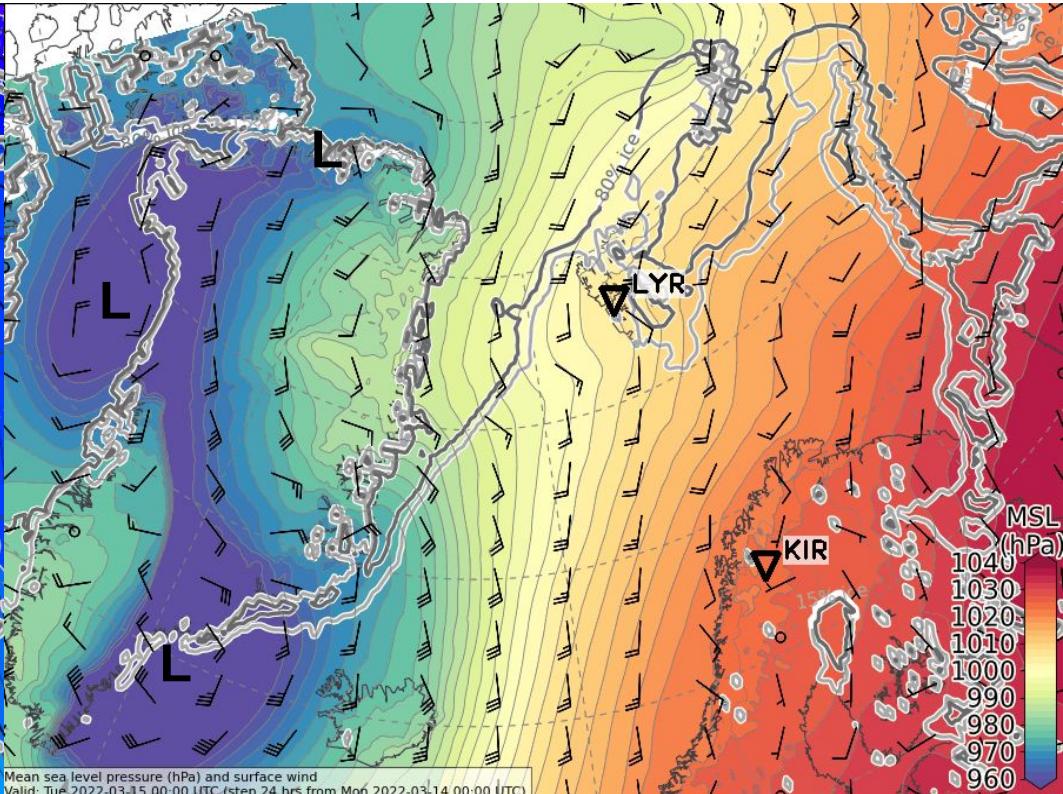


Tuesday, 2022-03-15 00 UTC (+24h)

500 hPa Geopot. & T

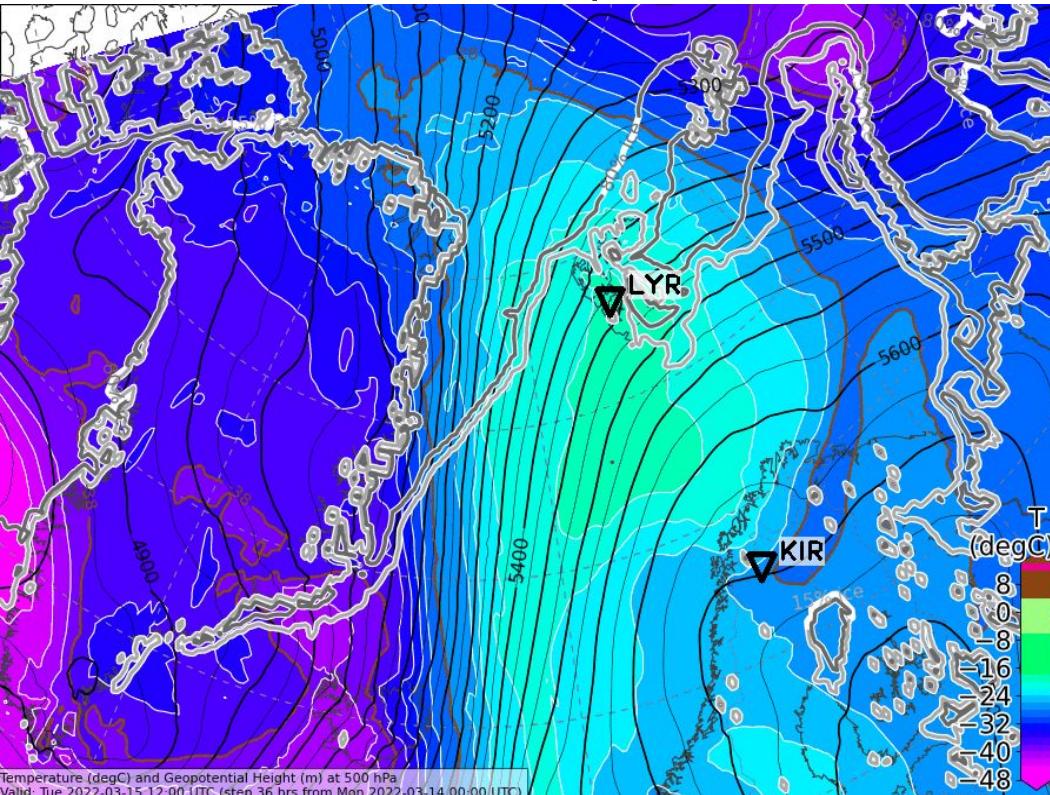


Sea level pressure

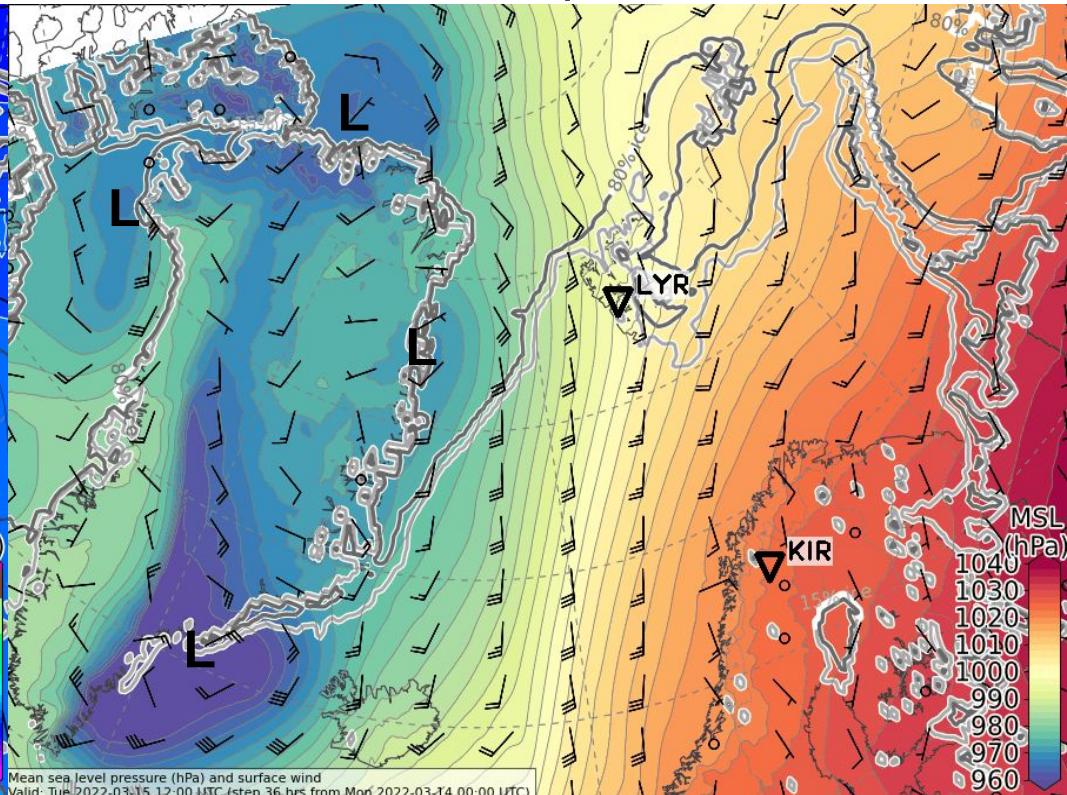


Tuesday, 2022-03-15 12 UTC (+36h)

500 hPa Geopot. & T

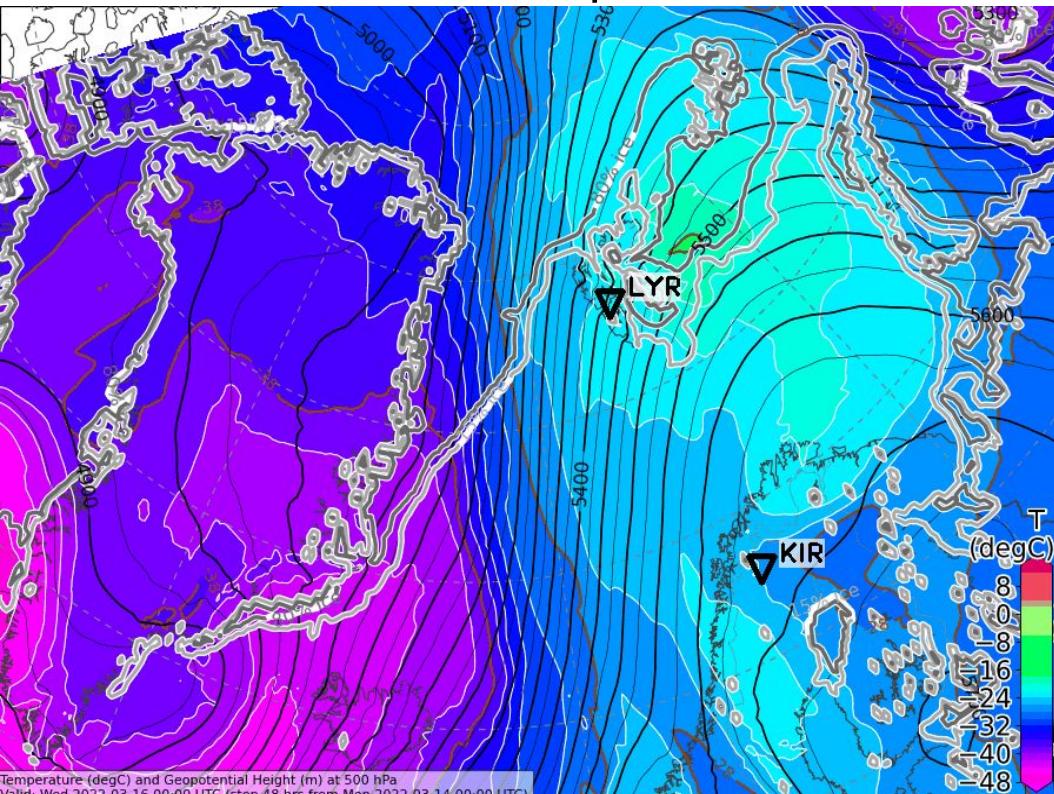


Sea level pressure

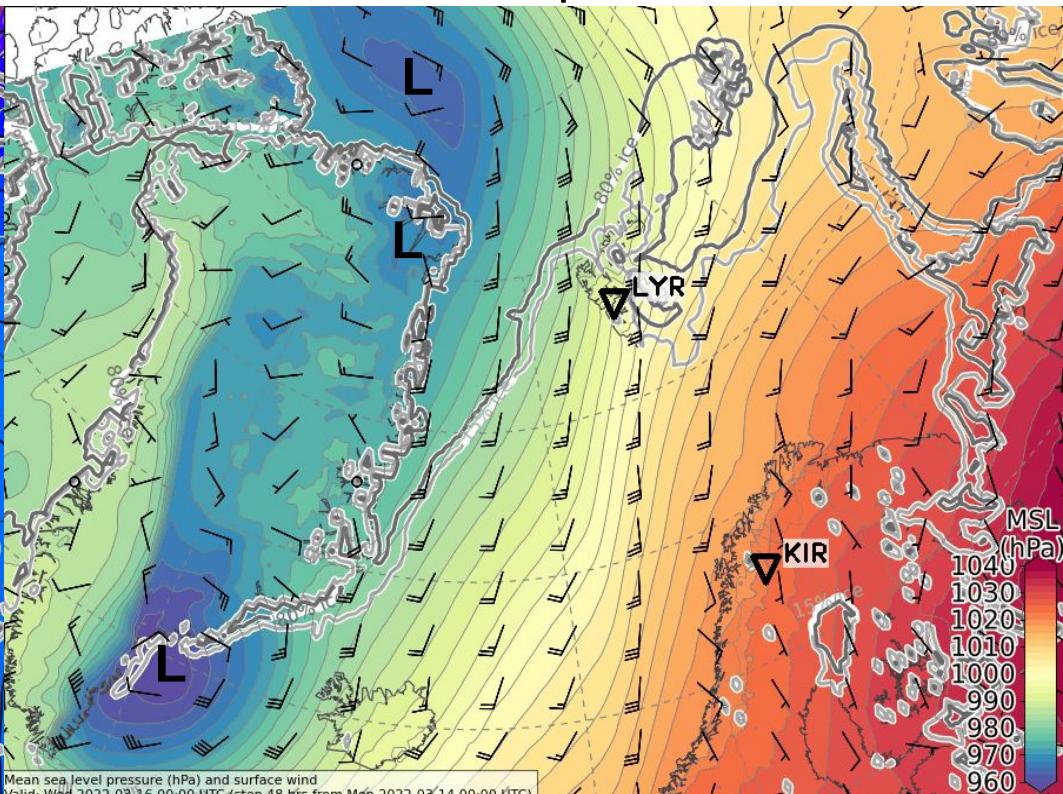


Wednesday, 2022-03-16 00 UTC (+48h)

500 hPa Geopot. & T

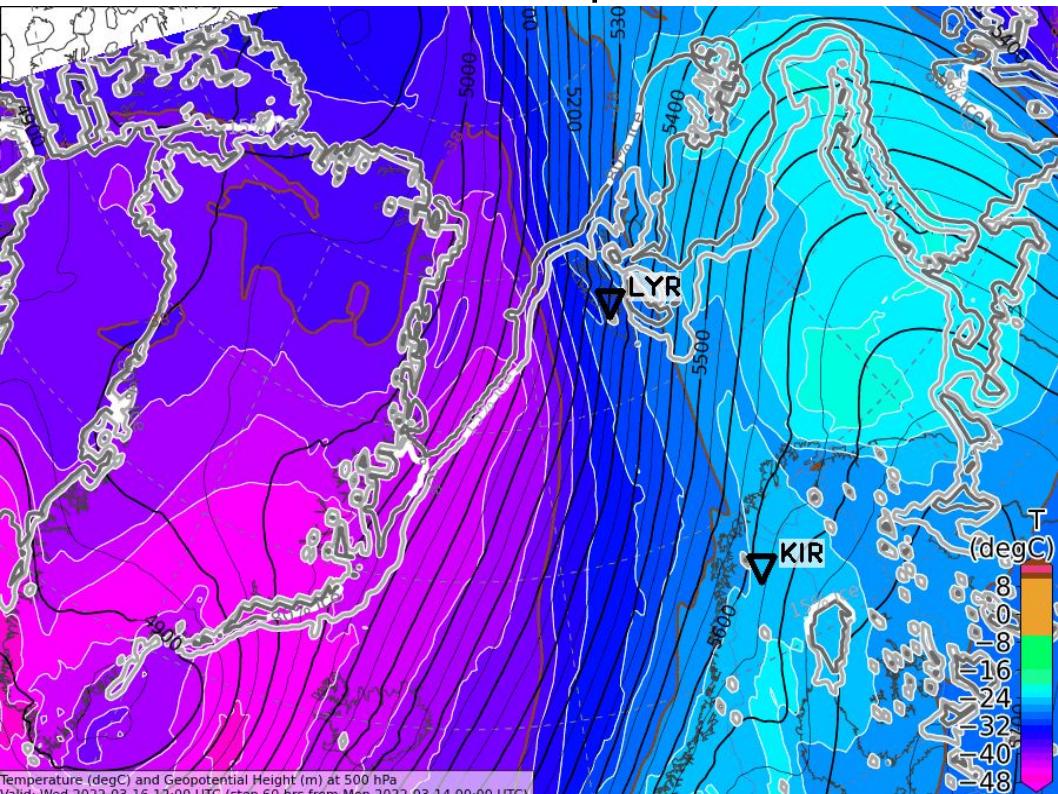


Sea level pressure

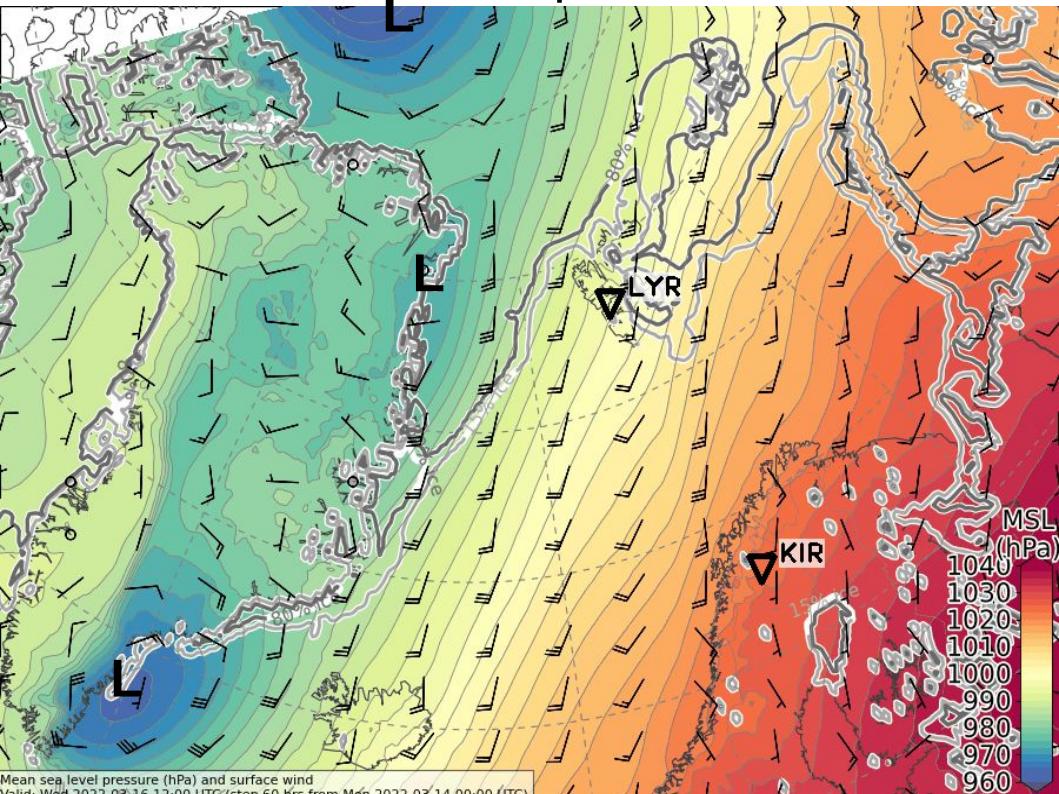


Wednesday, 2022-03-16 12 UTC (+60h)

500 hPa Geopot. & T

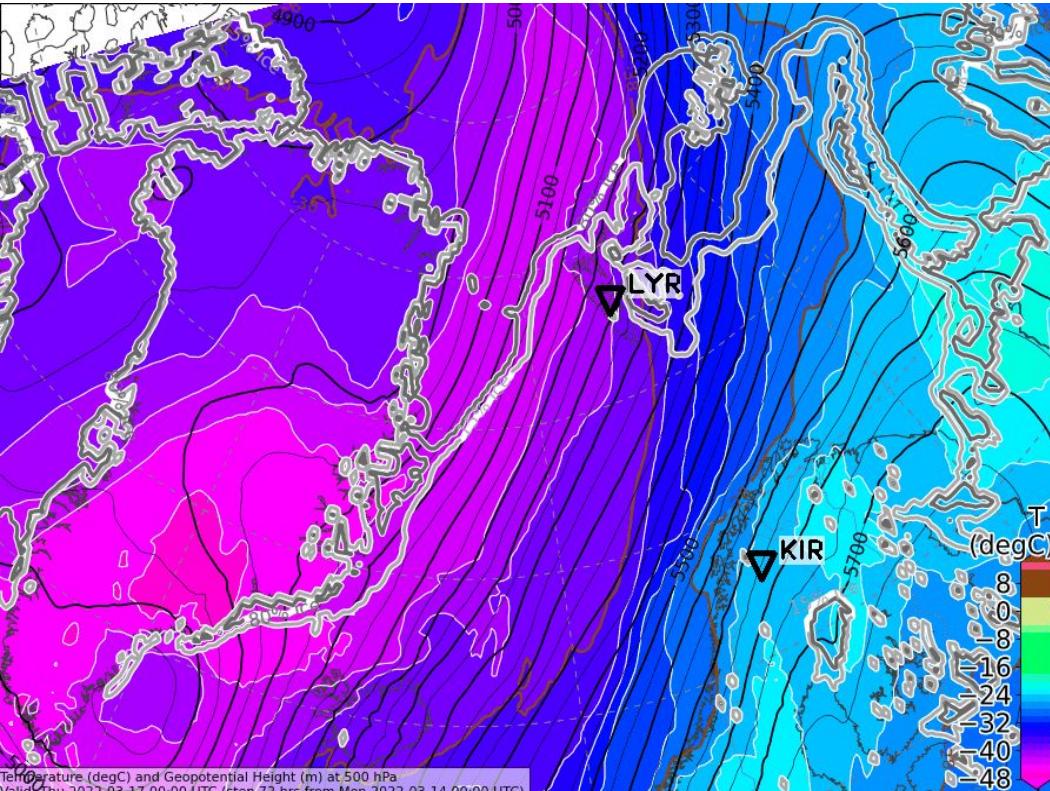


Sea level pressure

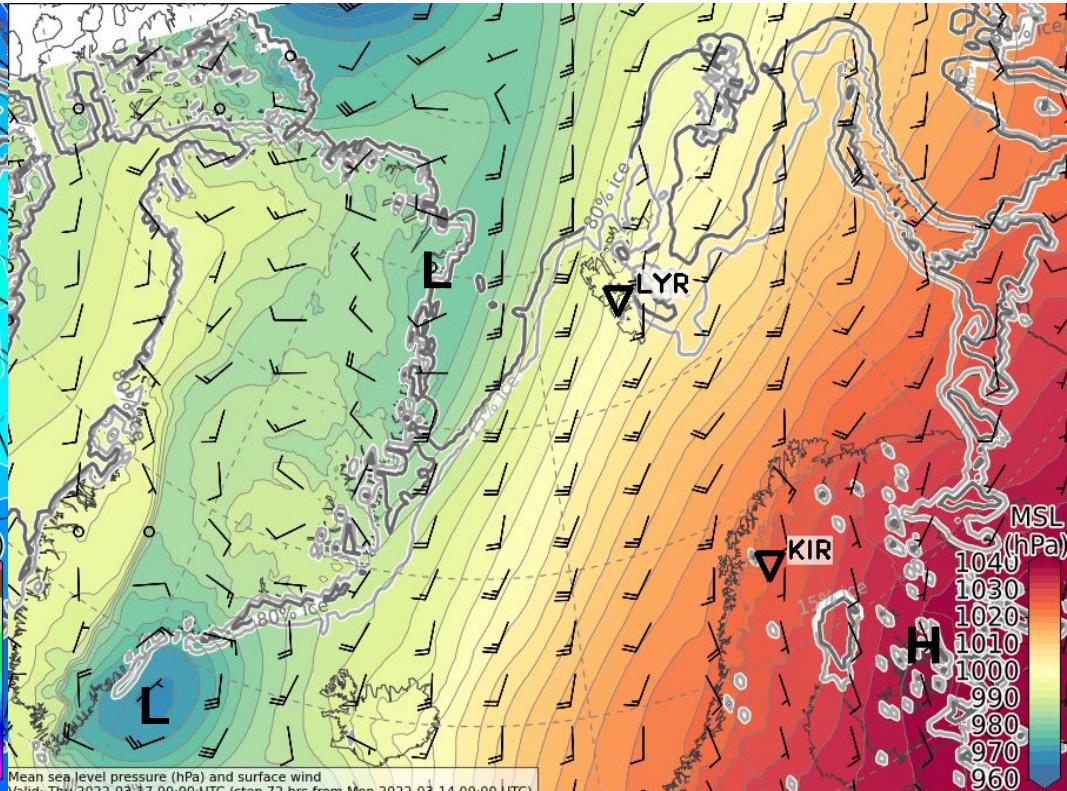


Thursday, 2022-03-17 00 UTC (+72h)

500 hPa Geopot. & T

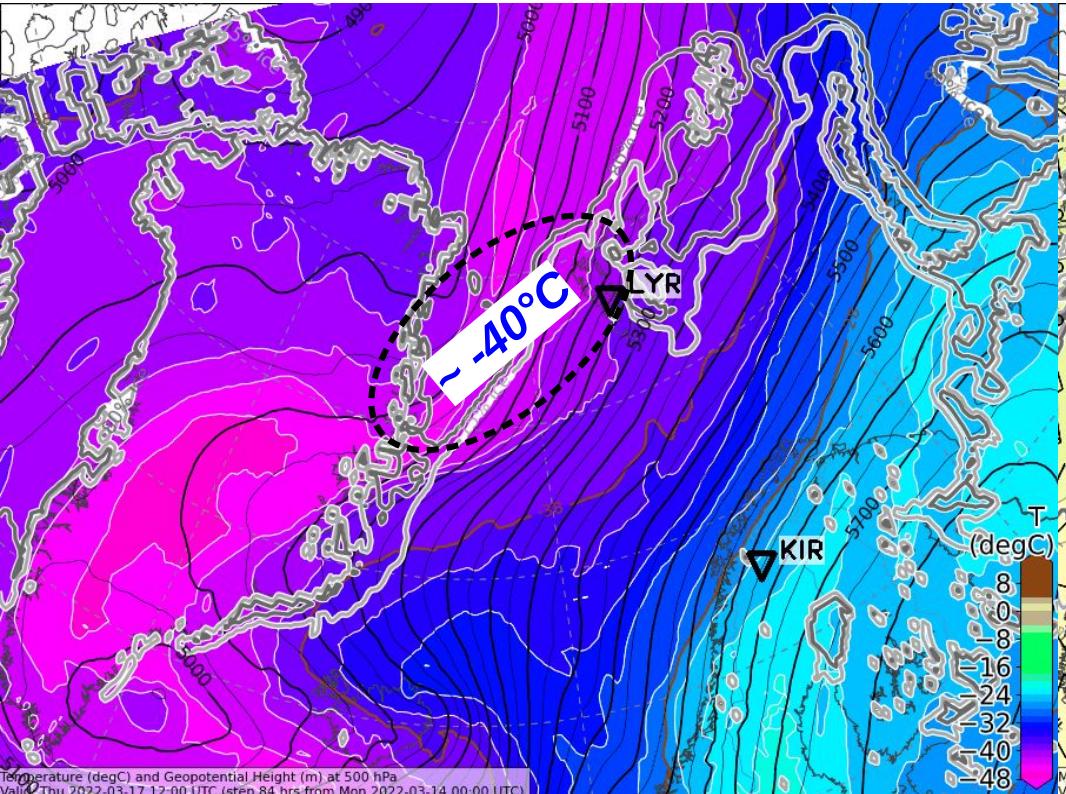


Sea level pressure

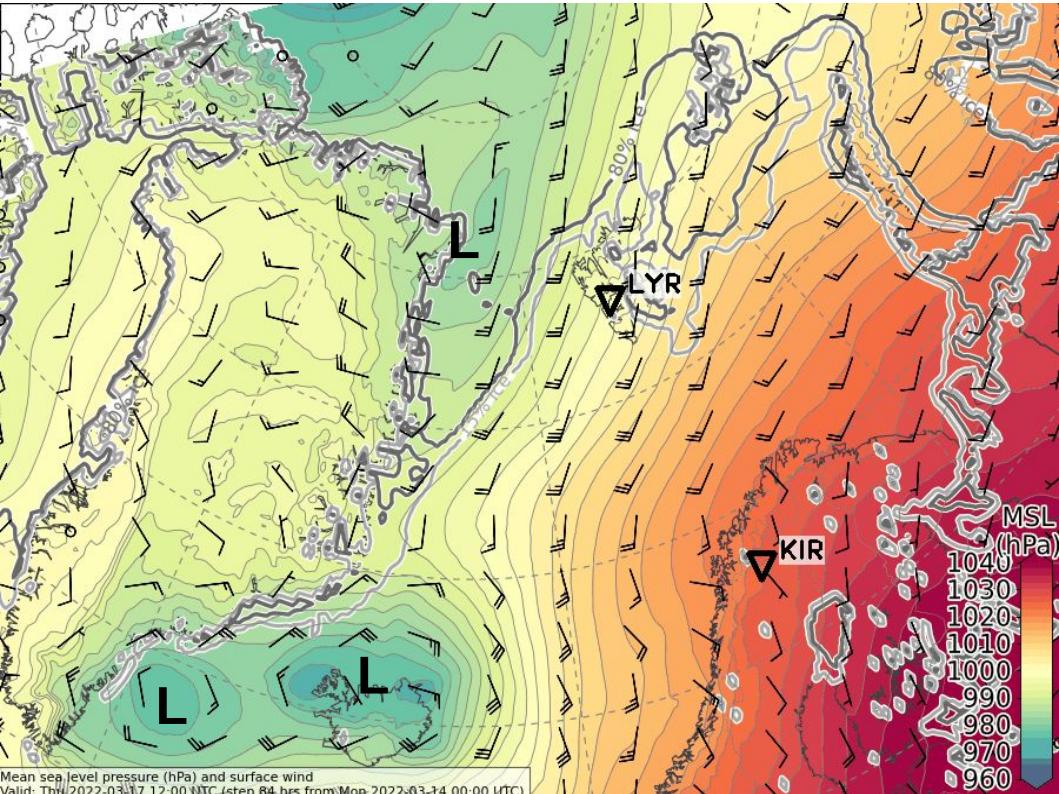


Thursday, 2022-03-17 12 UTC (+84h)

500 hPa Geopot. & T

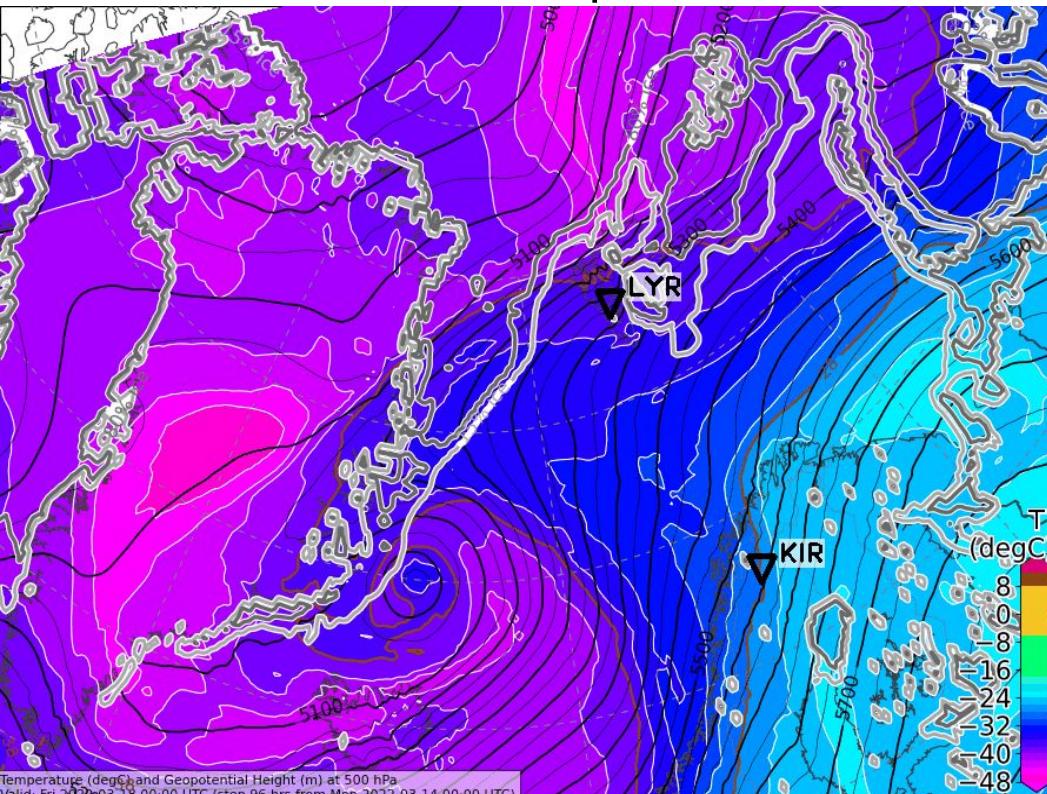


Sea level pressure

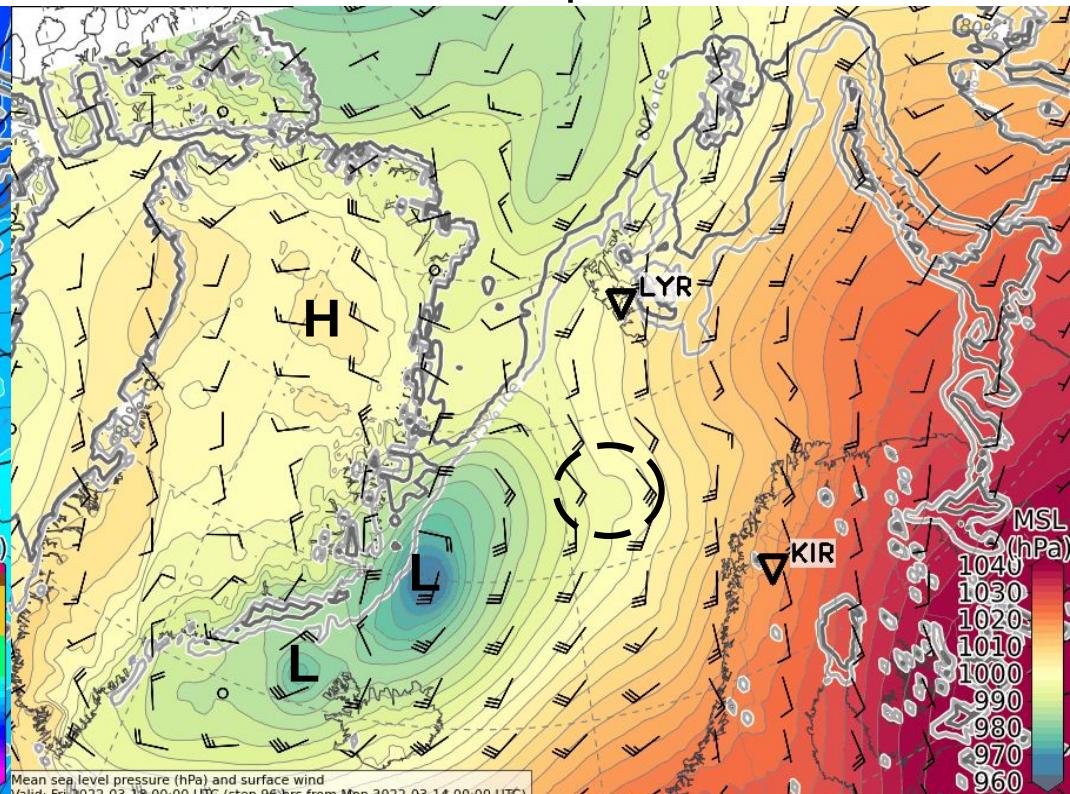


Friday, 2022-03-18 00 UTC (+96h)

500 hPa Geopot. & T

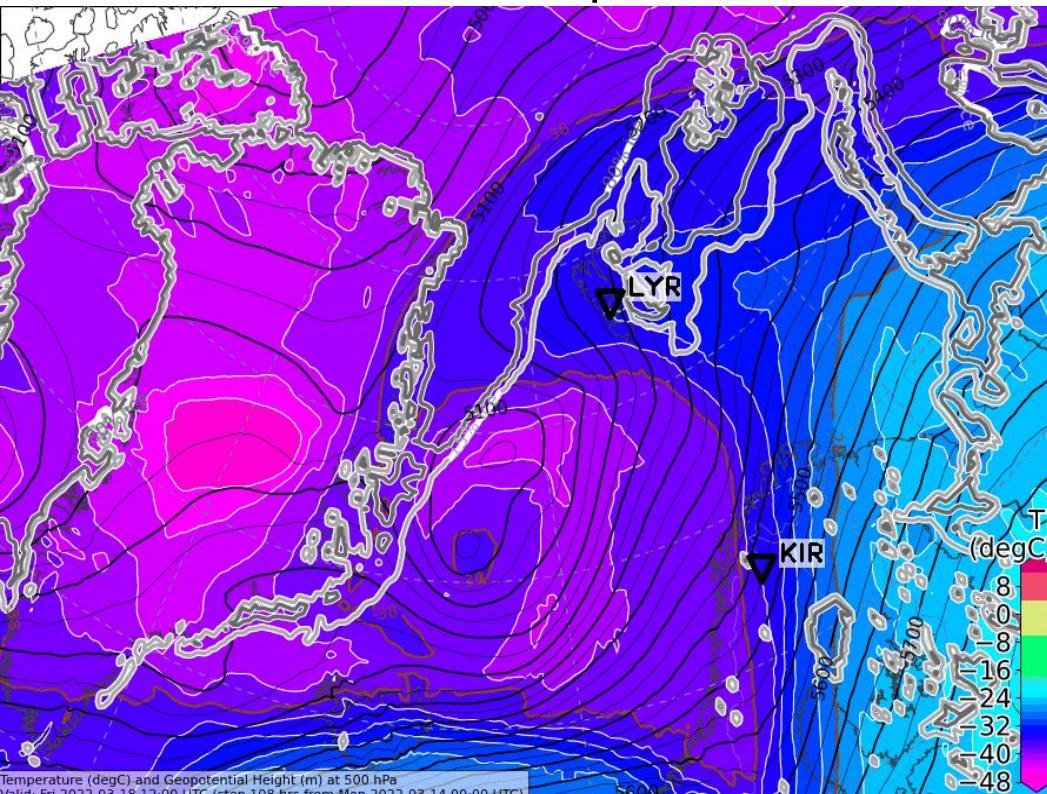


Sea level pressure

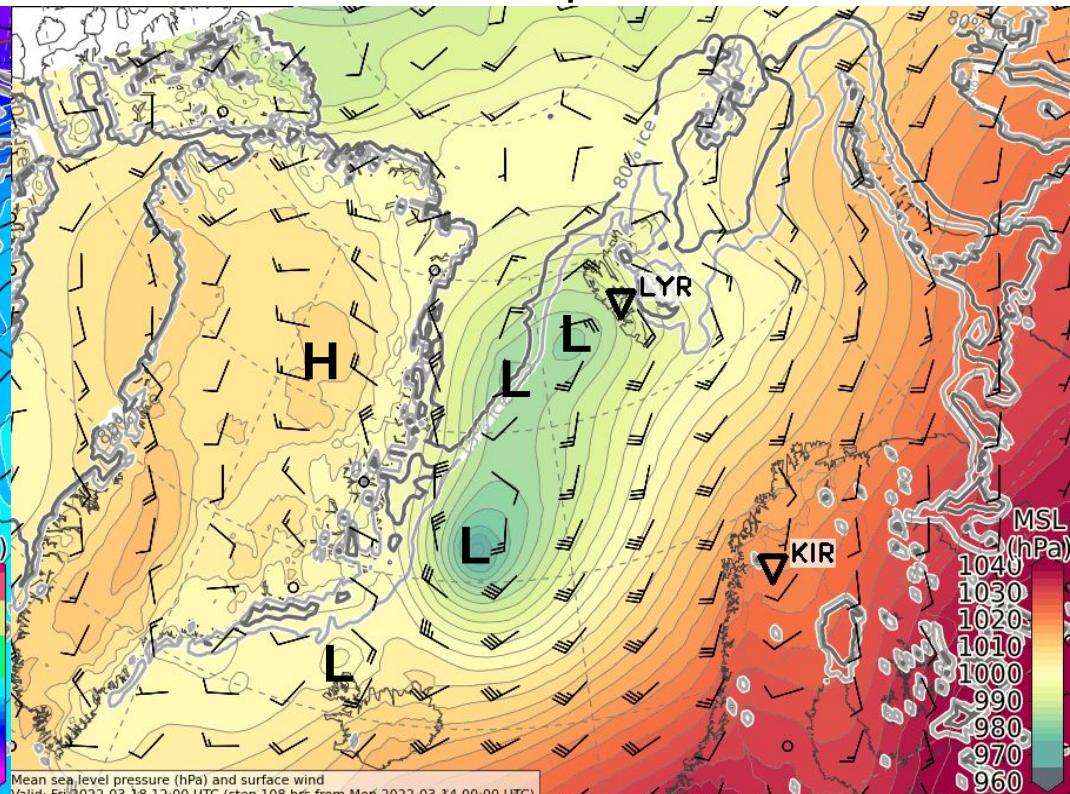


Friday, 2022-03-18 12 UTC (+108h)

500 hPa Geopot. & T

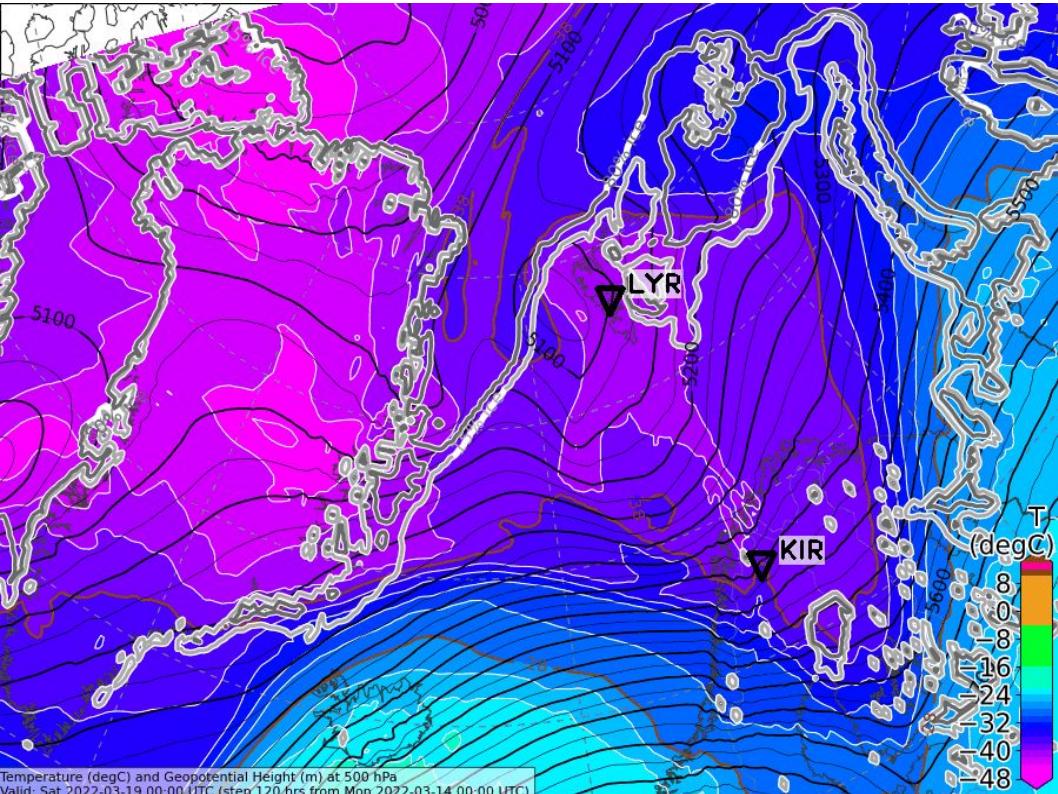


Sea level pressure

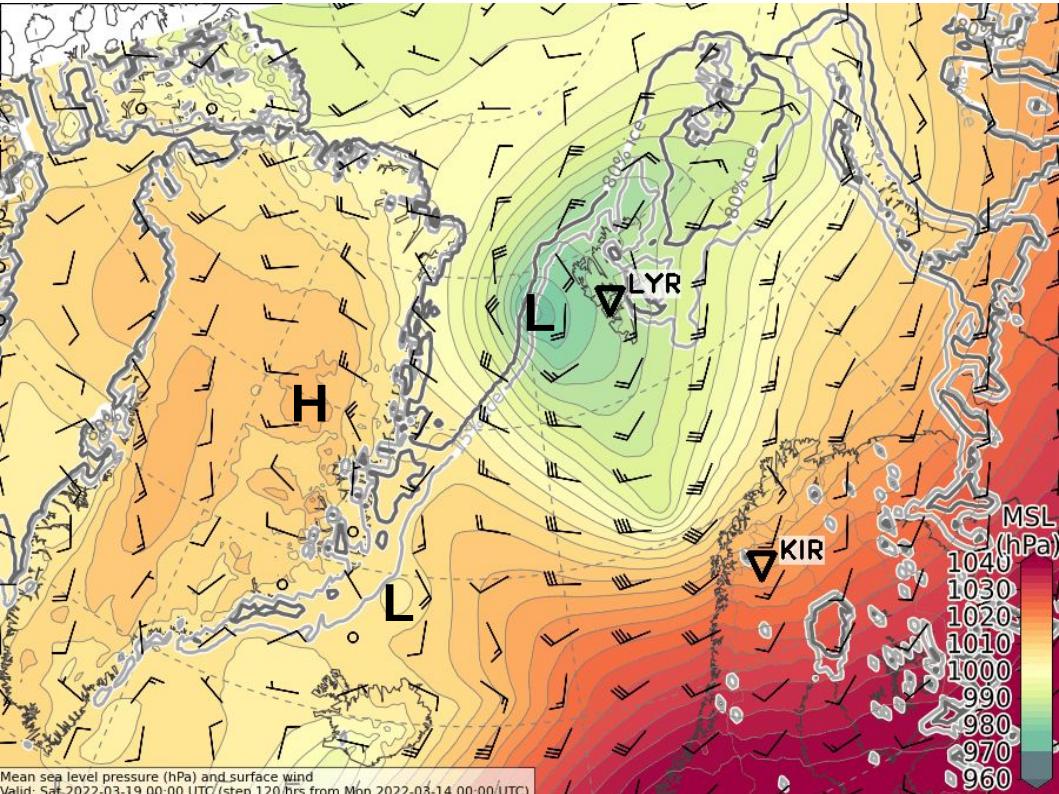


Saturday, 2022-03-19 00 UTC (+120h)

500 hPa Geopot. & T

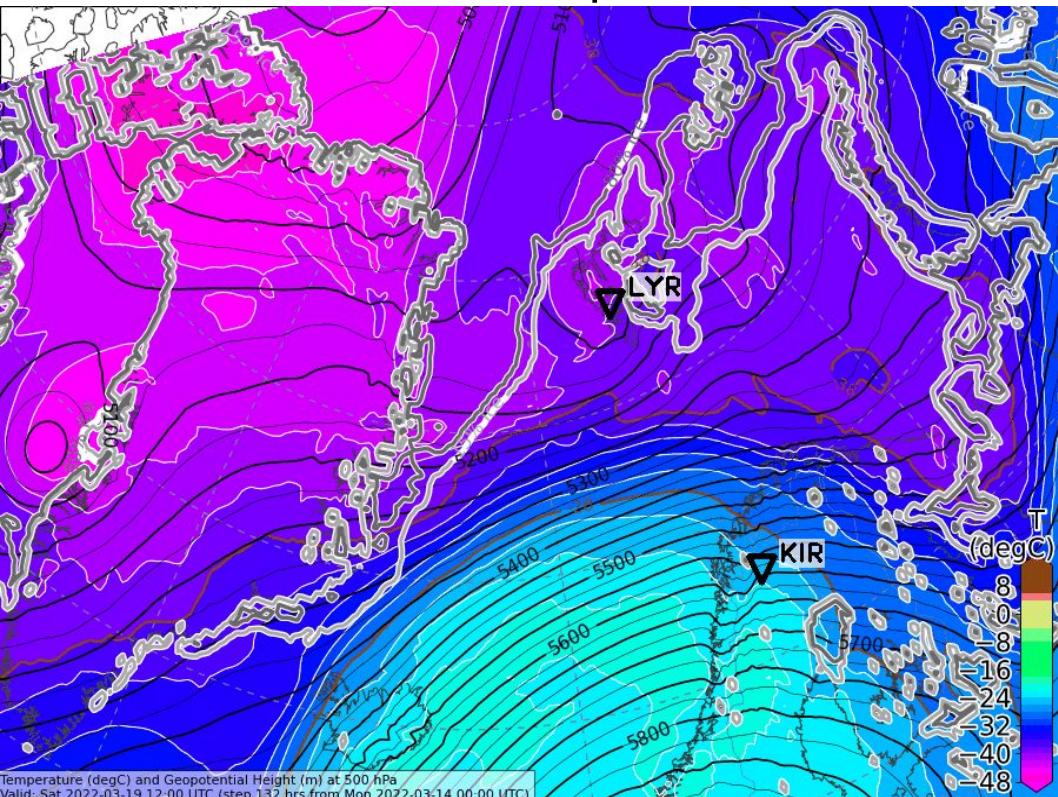


Sea level pressure

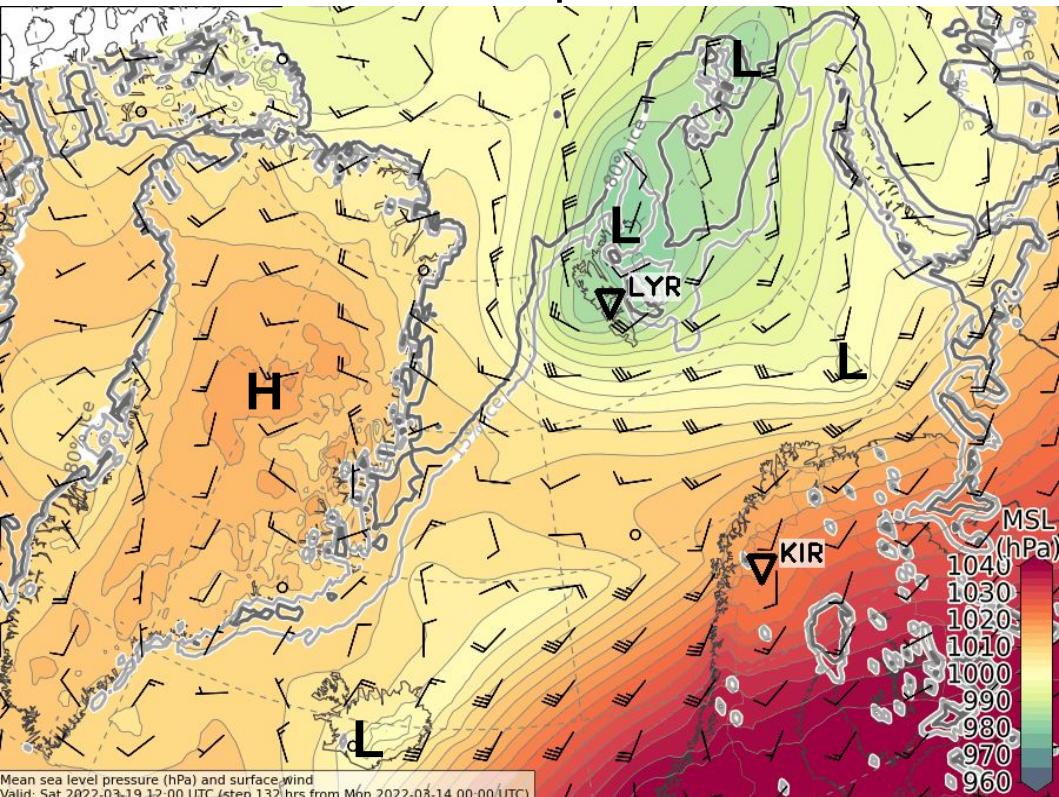


Saturday, 2022-03-19 12 UTC (+132h)

500 hPa Geopot. & T



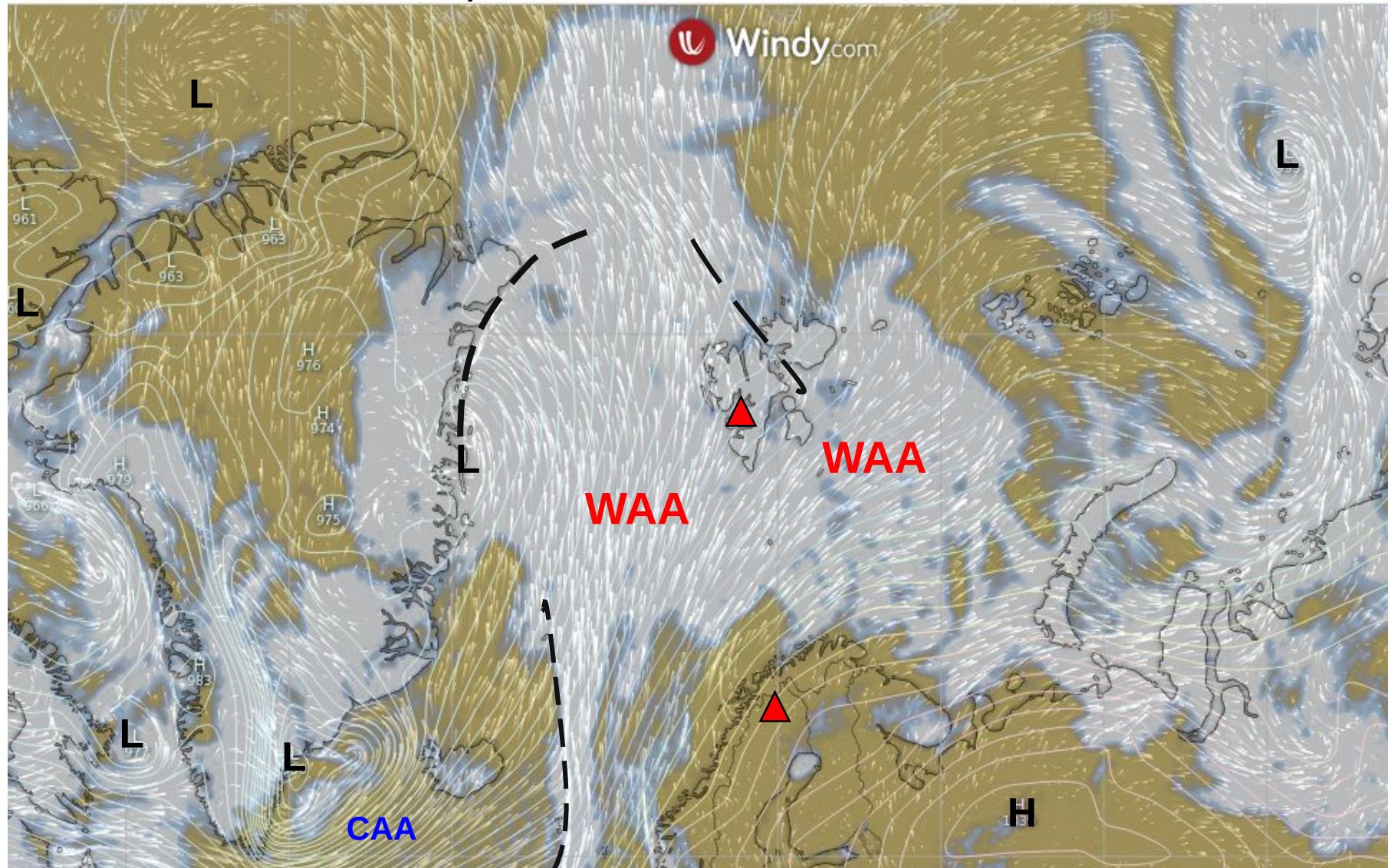
Sea level pressure



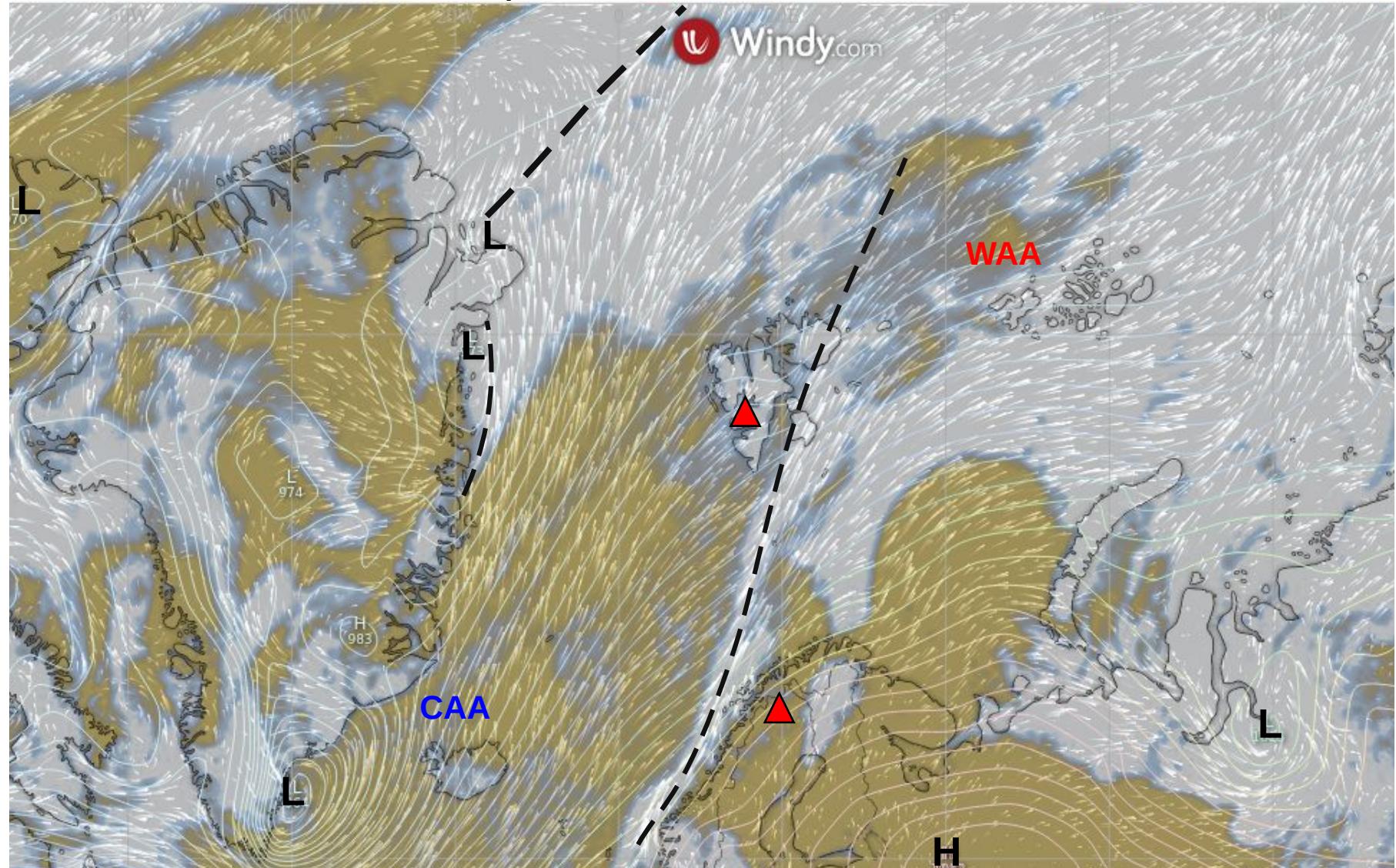
Surface wind development
2022-03-14 00 UTC: 36 – 132h
ECMWF

CAA: Cold Air Advection
WAA: Warm Air Advection

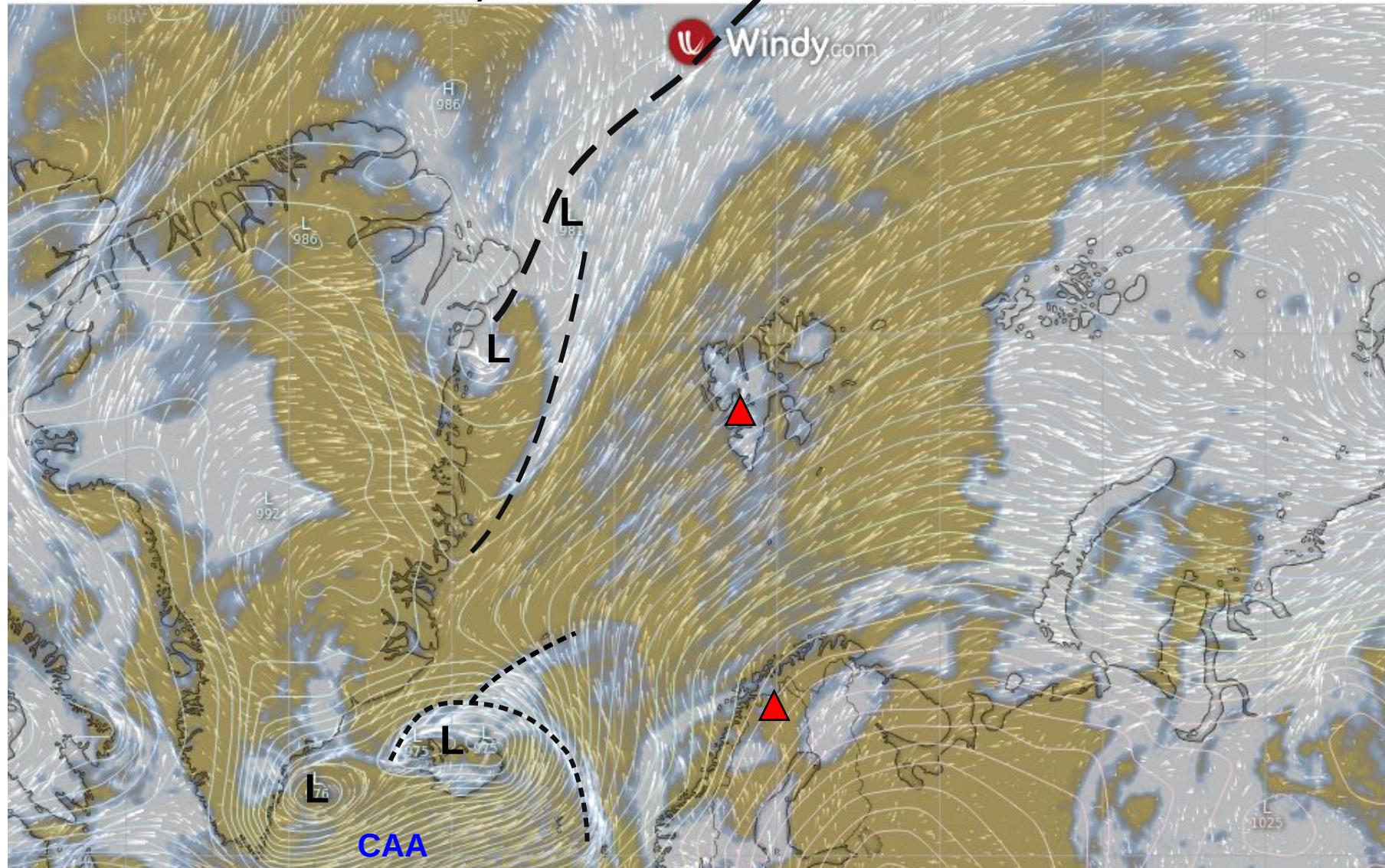
Tuesday, 2022-03-15 12 UTC (+36h)



Wednesday, 2022-03-16 12 UTC (+60h)



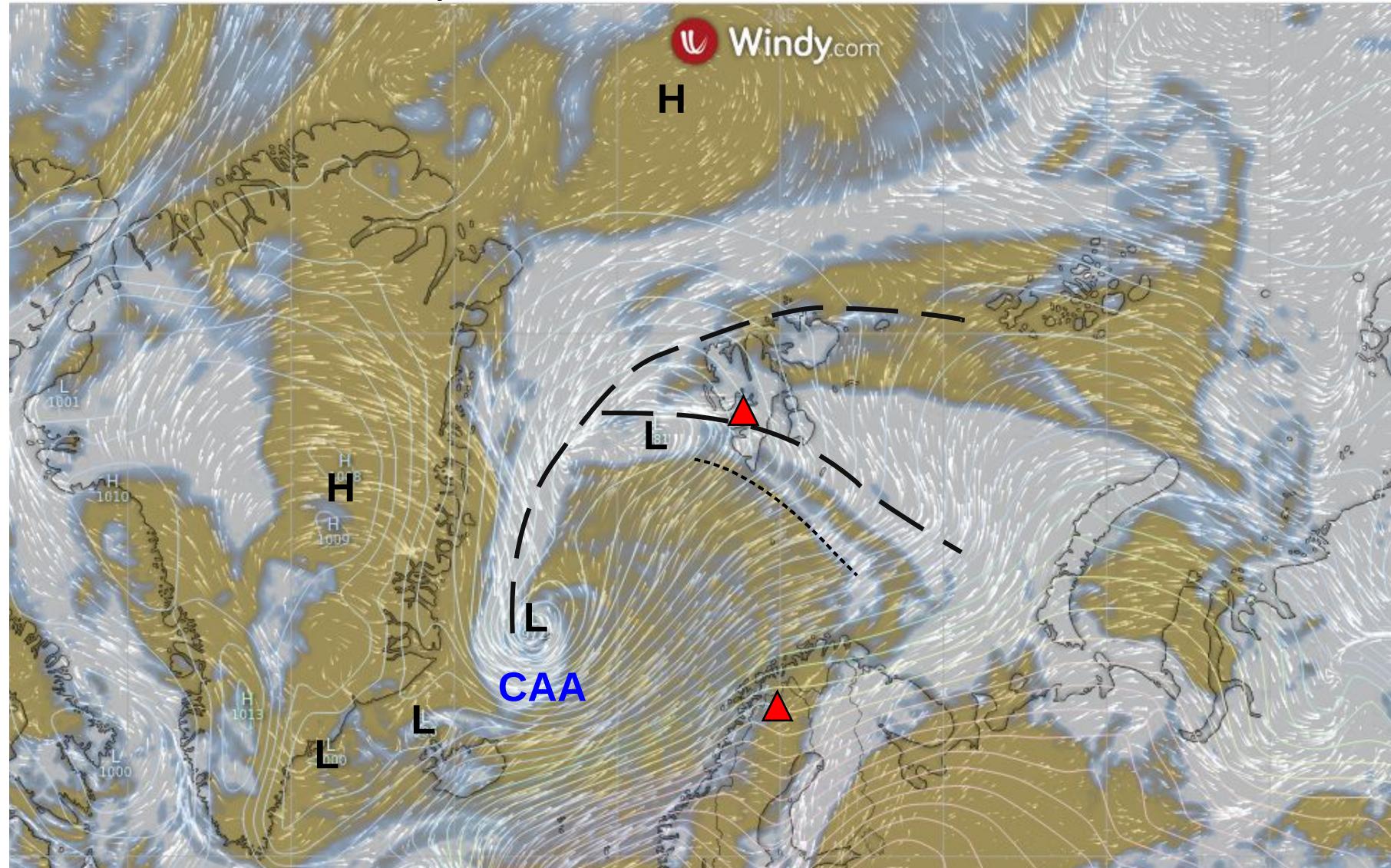
Thursday, 2022-03-17 12 UTC (+84h)



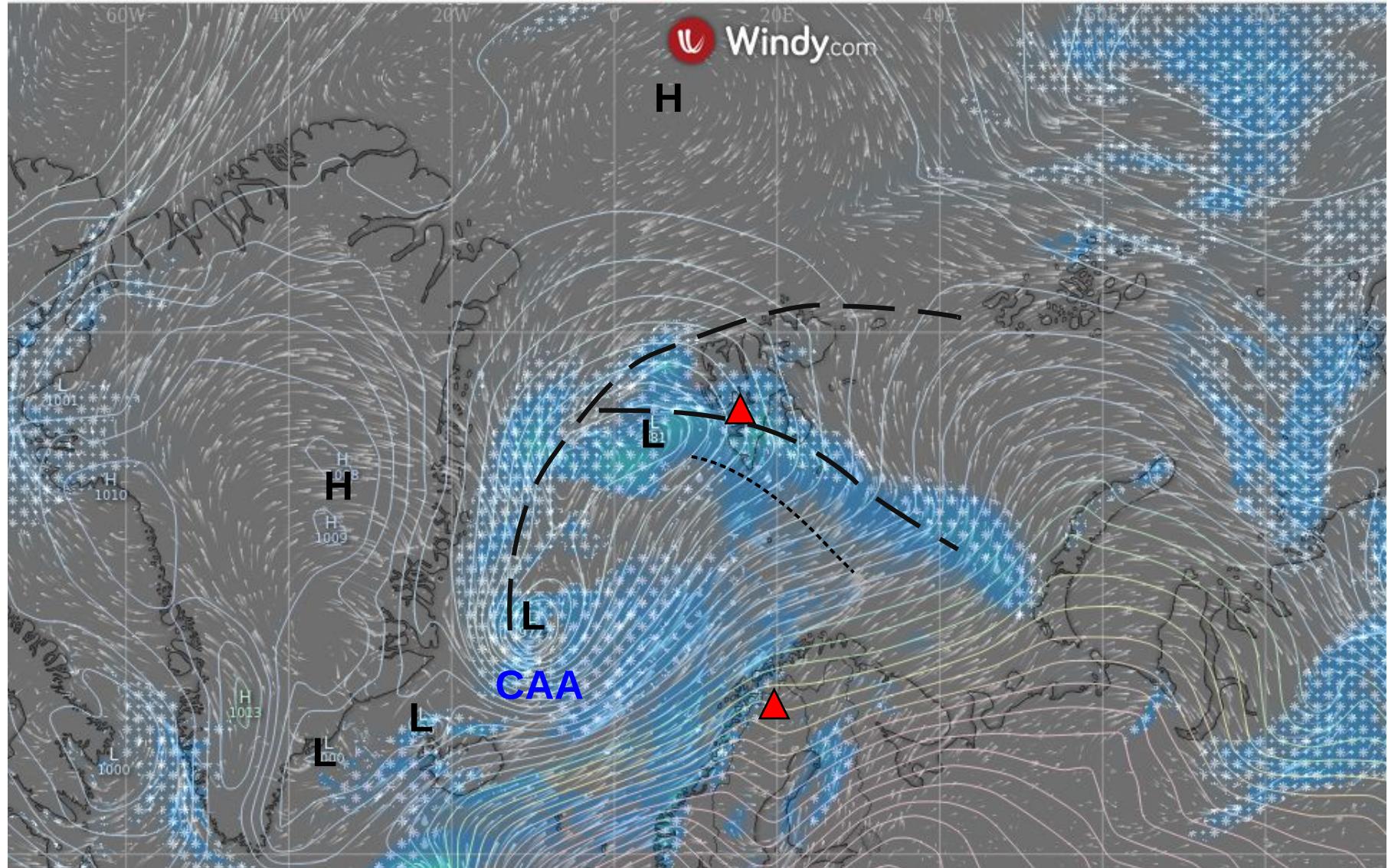
Thu 17 - 12:00 1100Z



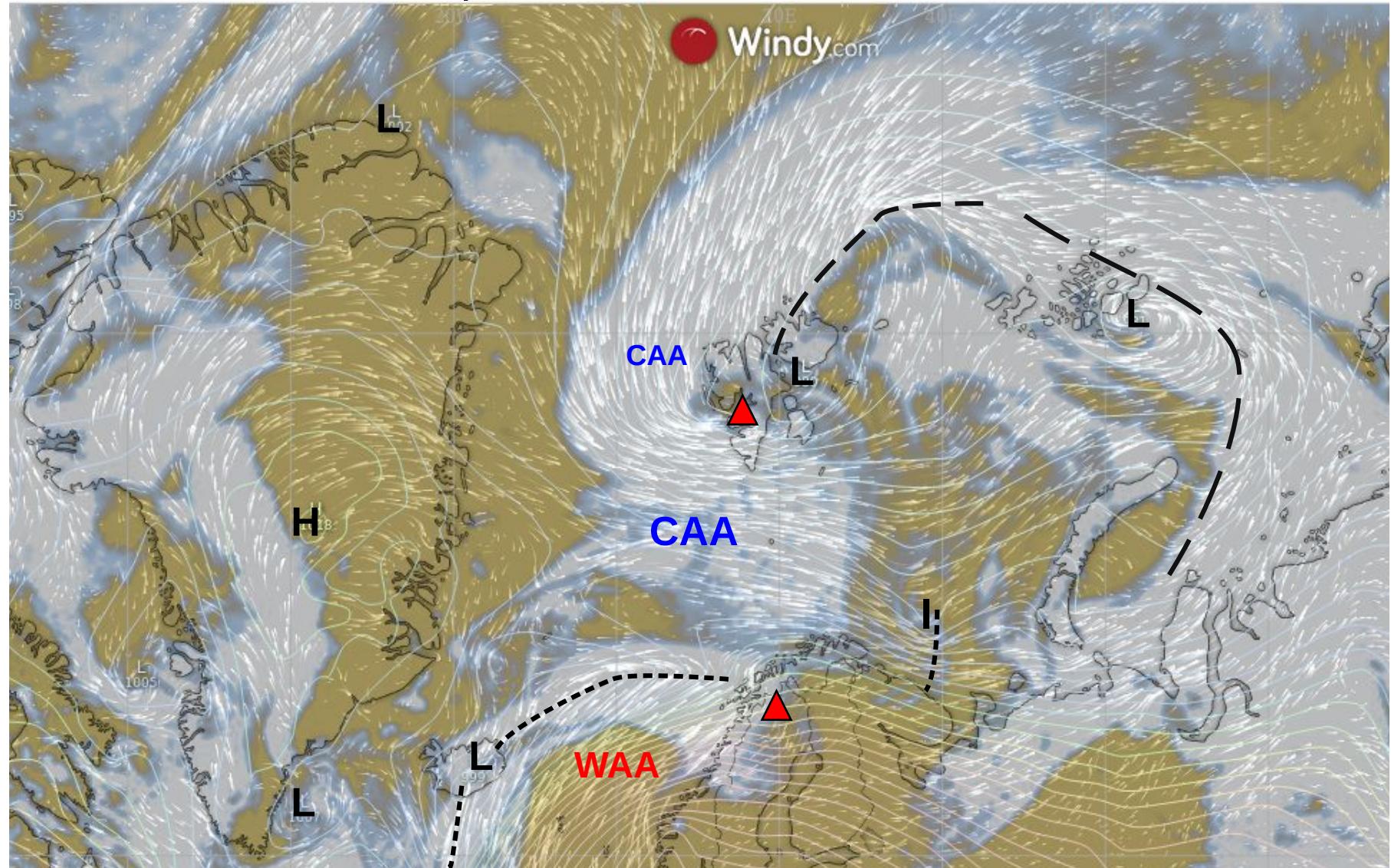
Friday, 2022-03-18 12 UTC (+108h)



Friday, 2022-03-18 12 UTC (+108h)



Saturday, 2022-03-19 12 UTC (+132h)



Cloud cover & precip development

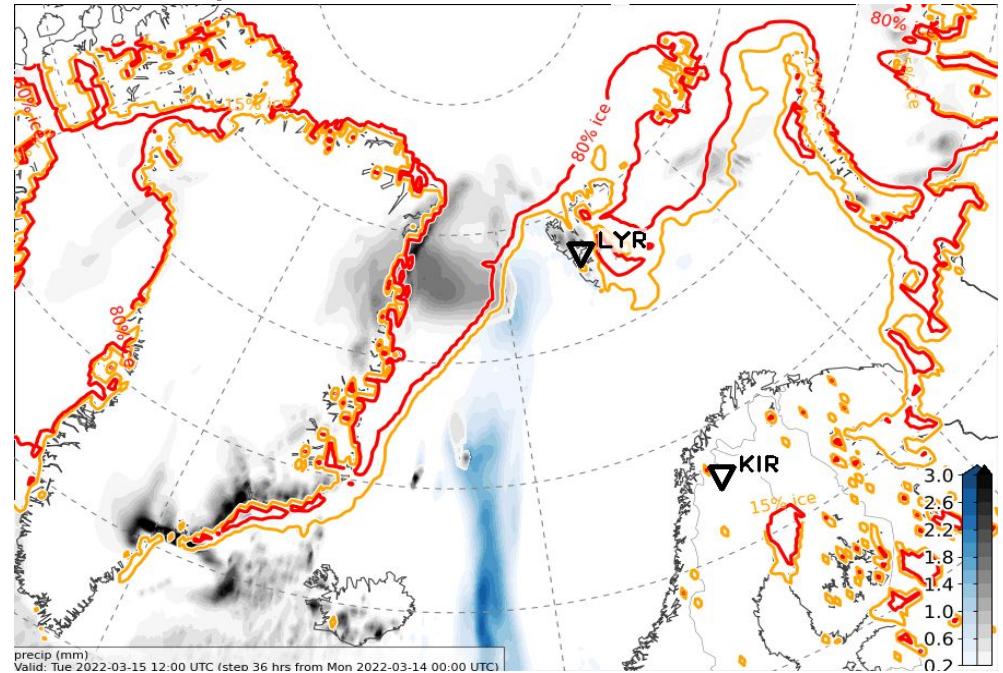
2022-03-14 00 UTC: 36 - 132h

ECMWF + ICON

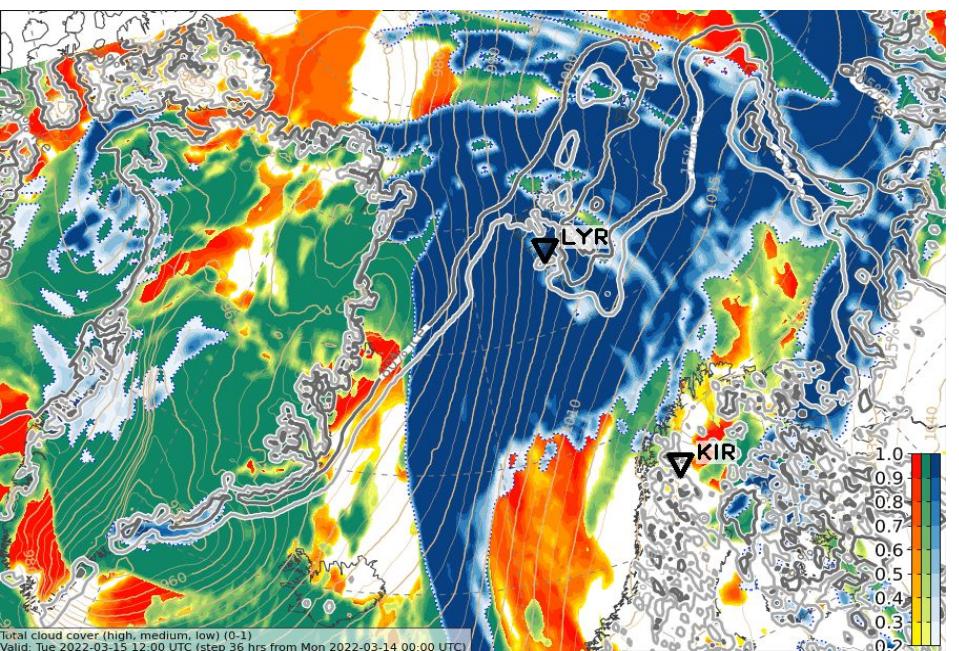
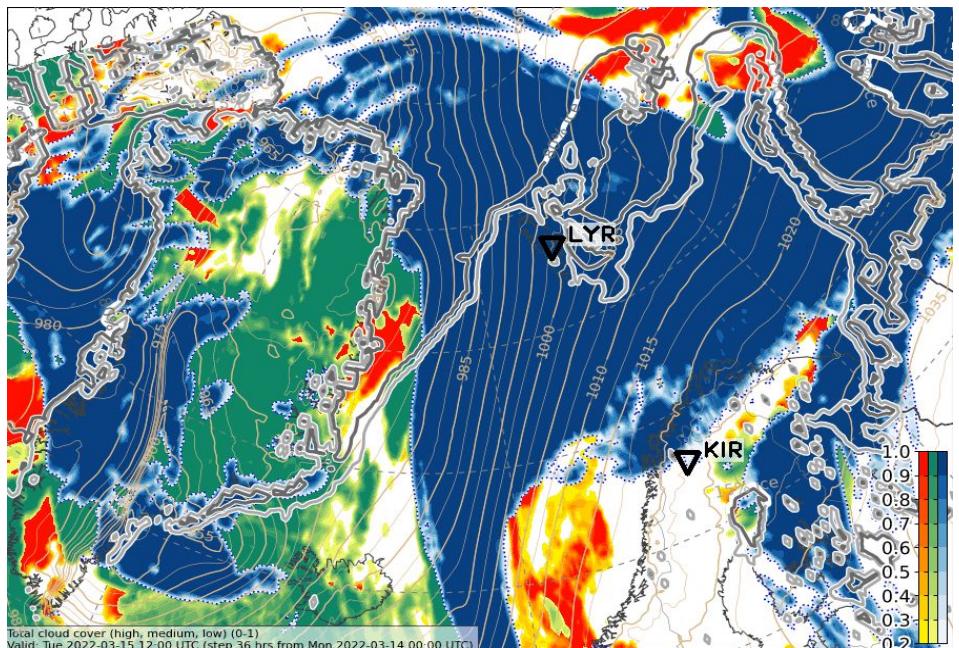
Tue, 2022-03-15 12 UTC (+36h)

ECMWF

2h prec.

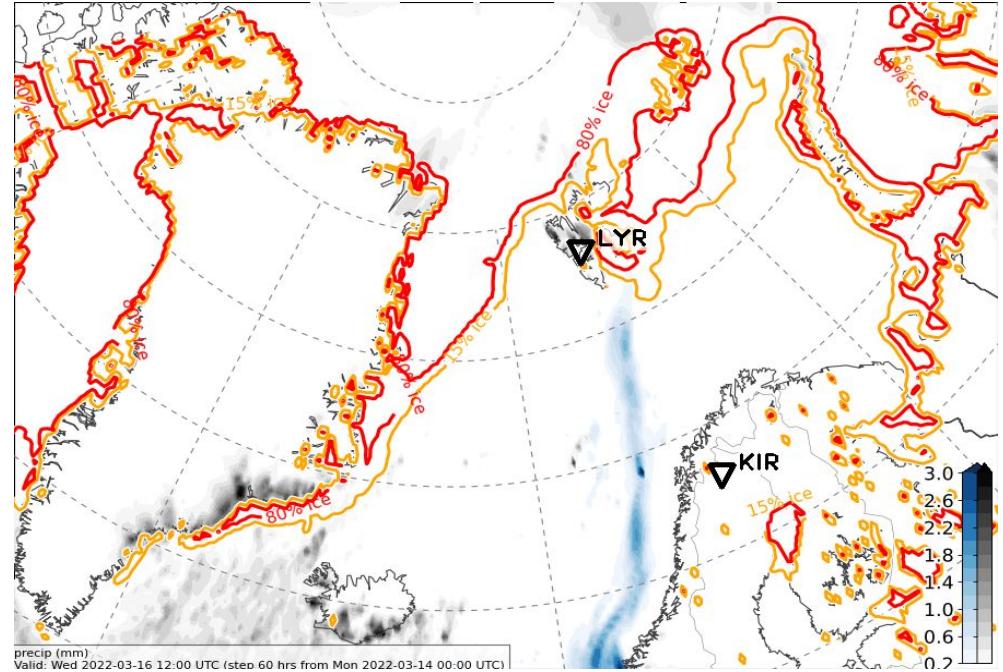


ICON

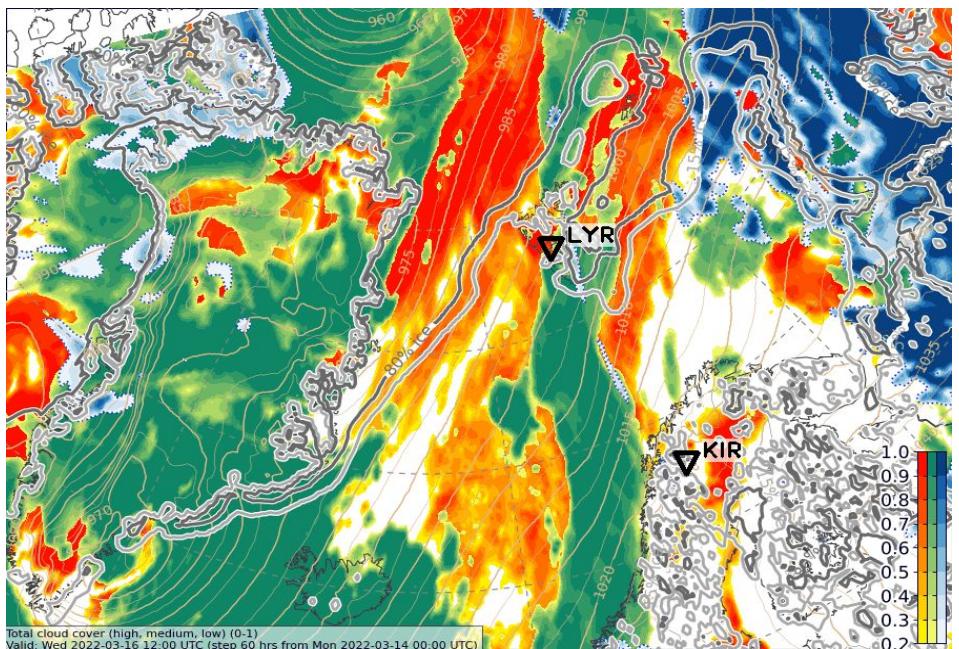
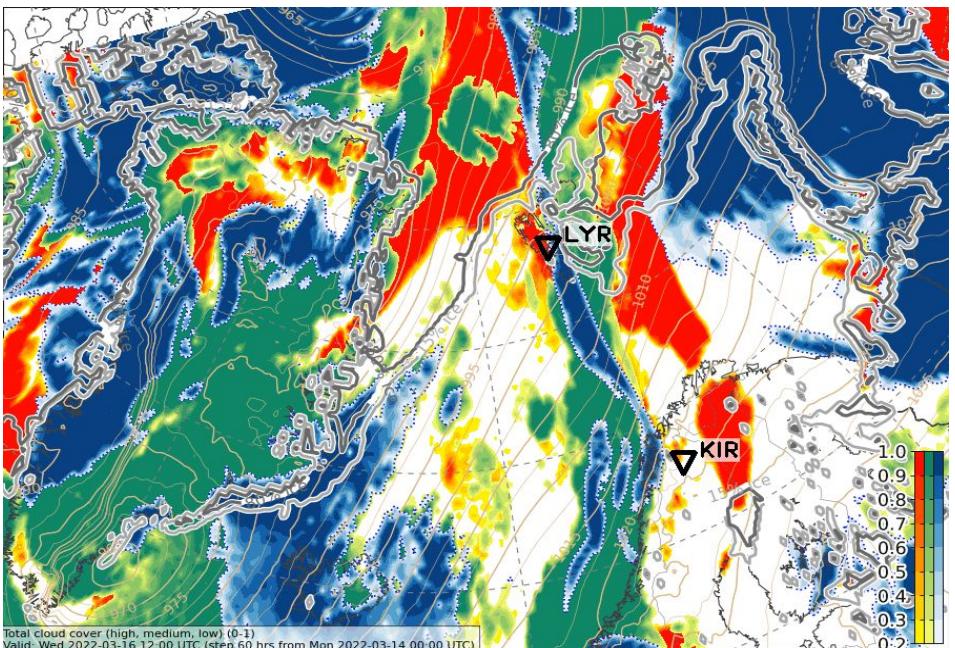


Wed, 2022-03-16 12 UTC (+60h) ECMWF

2h prec.

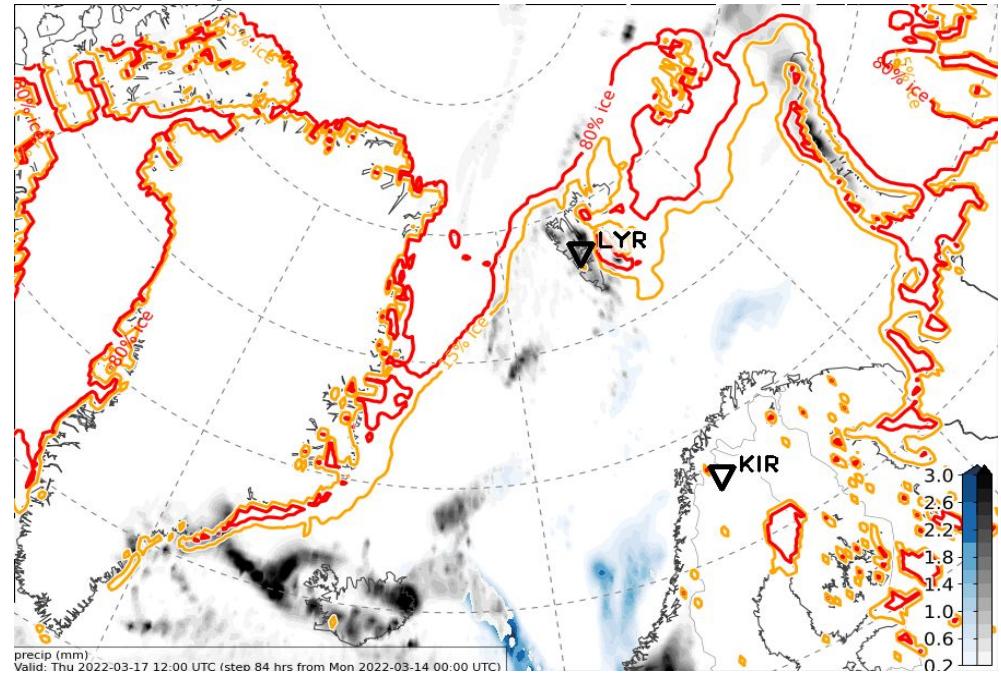


ICON

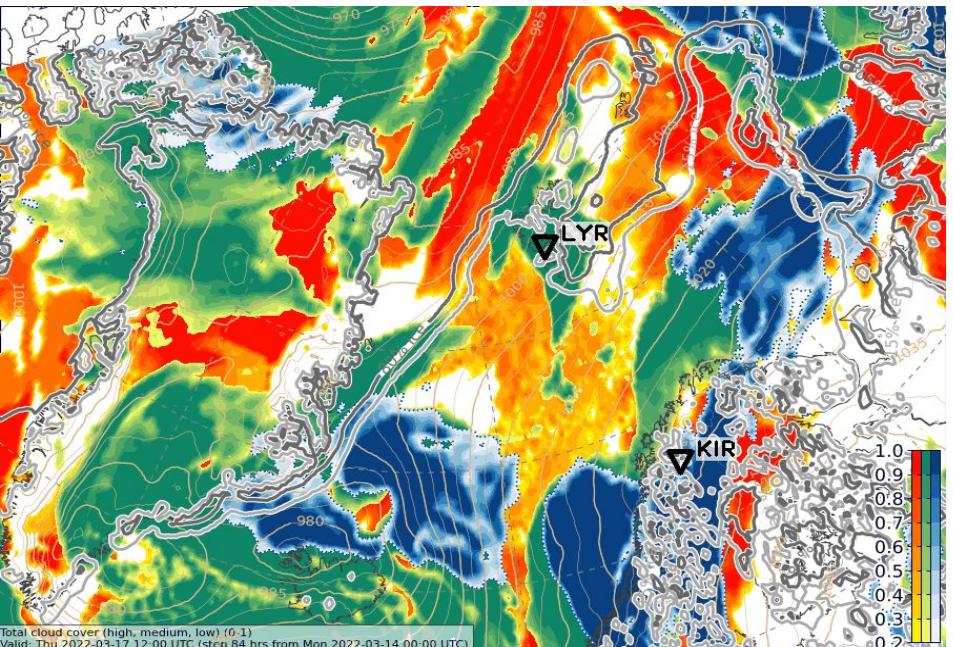
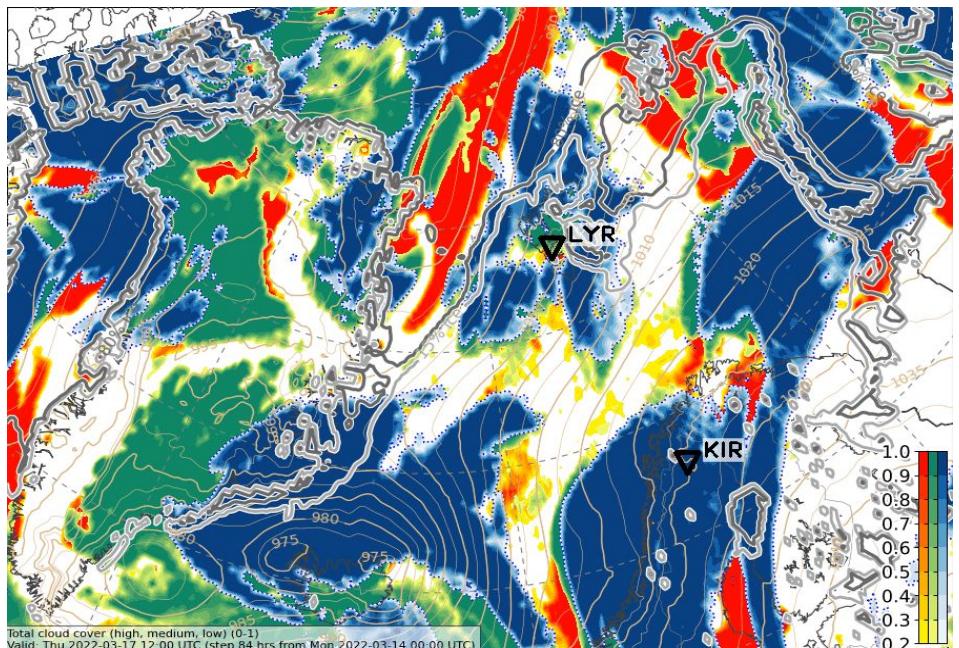


Thu, 2022-03-17 12 UTC (+84h) ECMWF

2h prec.

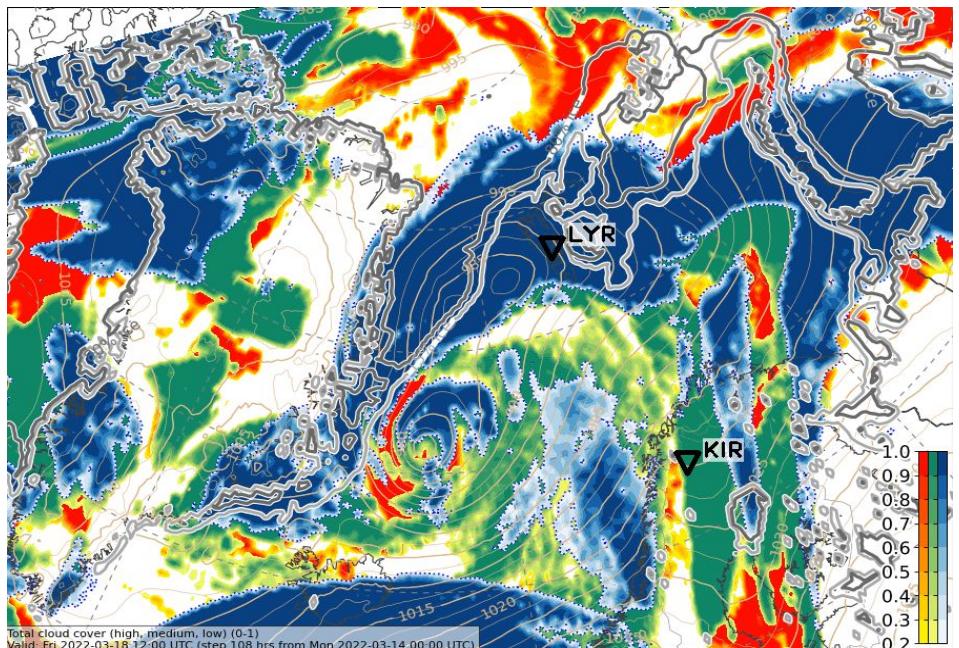
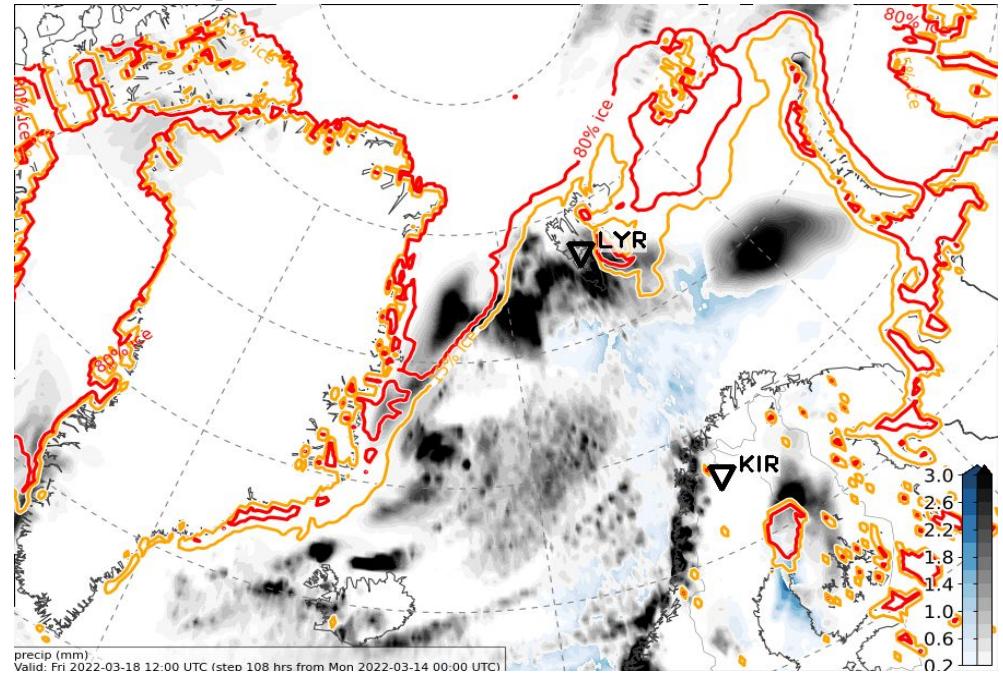


ICON

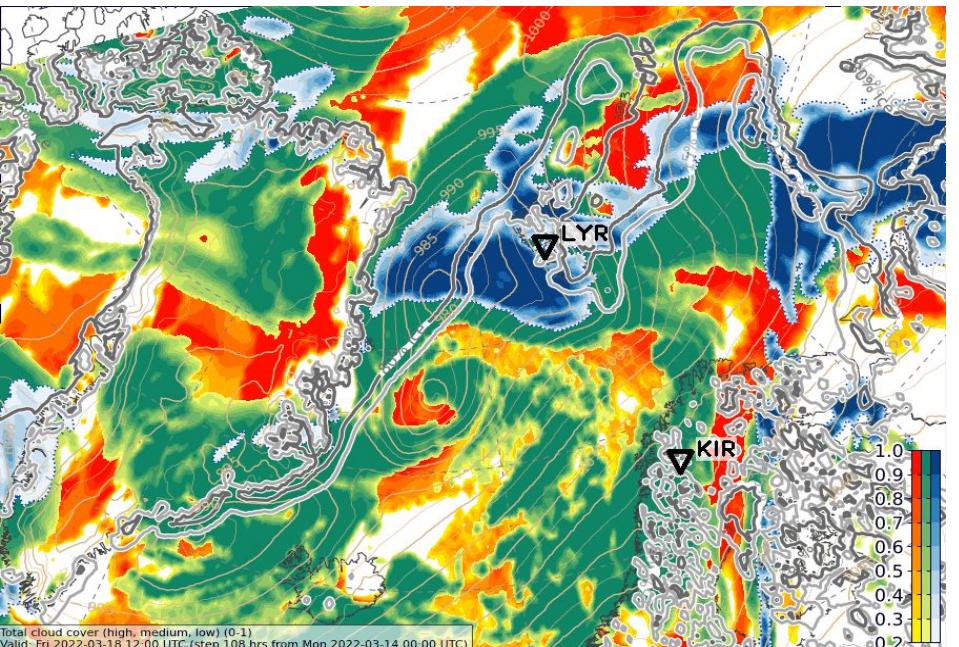


Fri, 2022-03-18 12 UTC (+108h) ECMWF

6h prec.

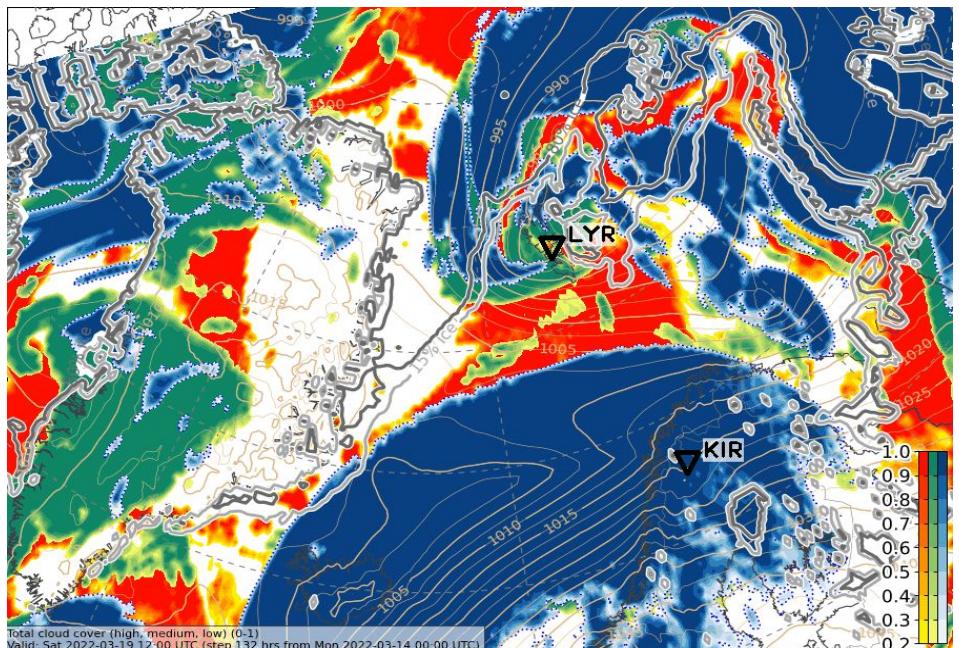
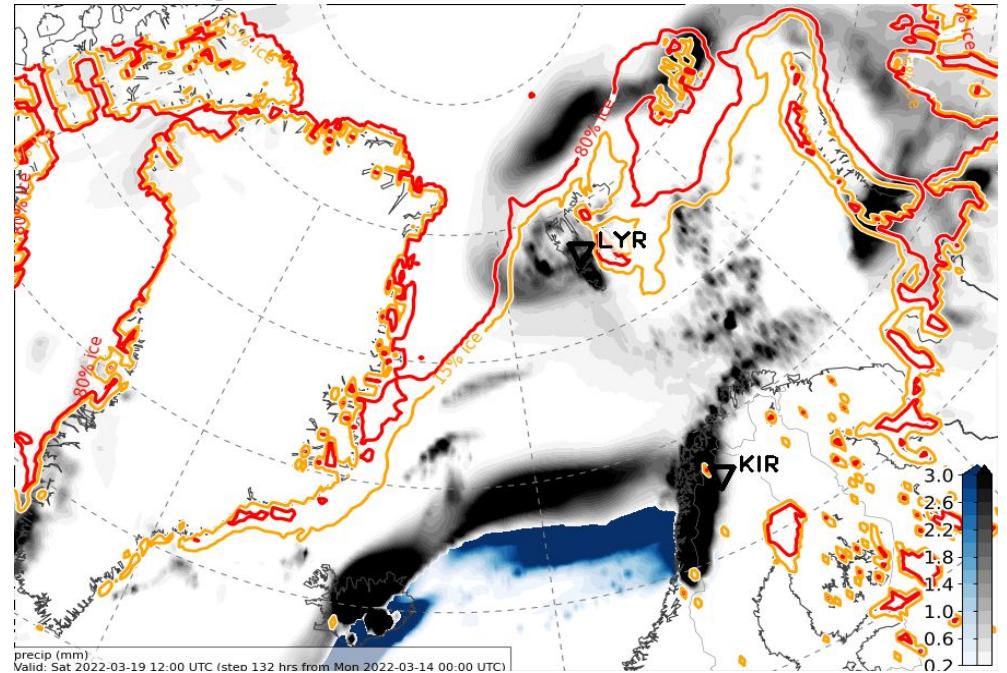


ICON



Sat, 2022-03-19 12 UTC (+132h) ECMWF

6h prec.



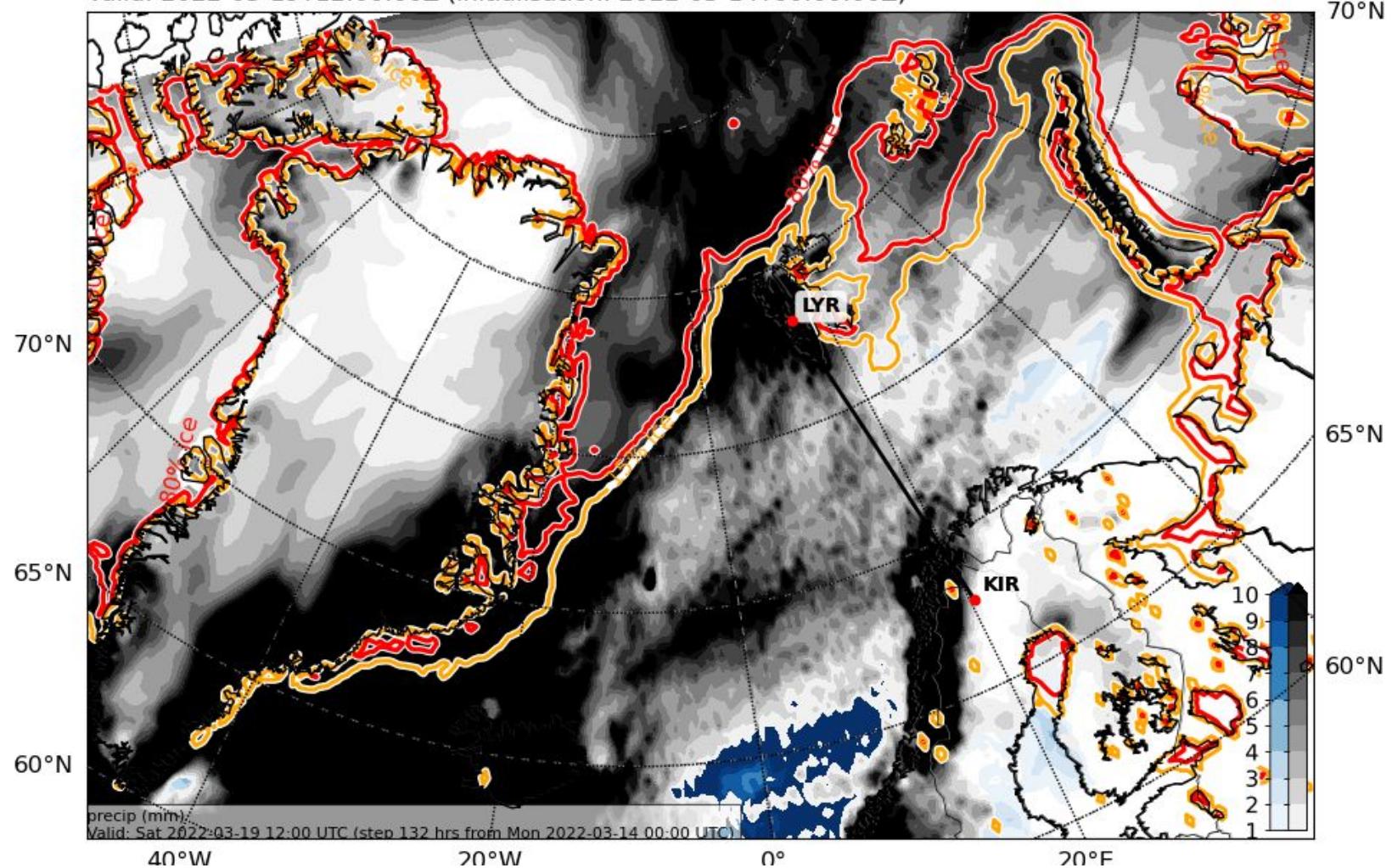
not available

ICON

Sat, 2022-03-19 12 UTC (+132h)

Precipitation, accumulated (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-19T12:00:00Z (initialisation: 2022-03-14T00:00:00Z)

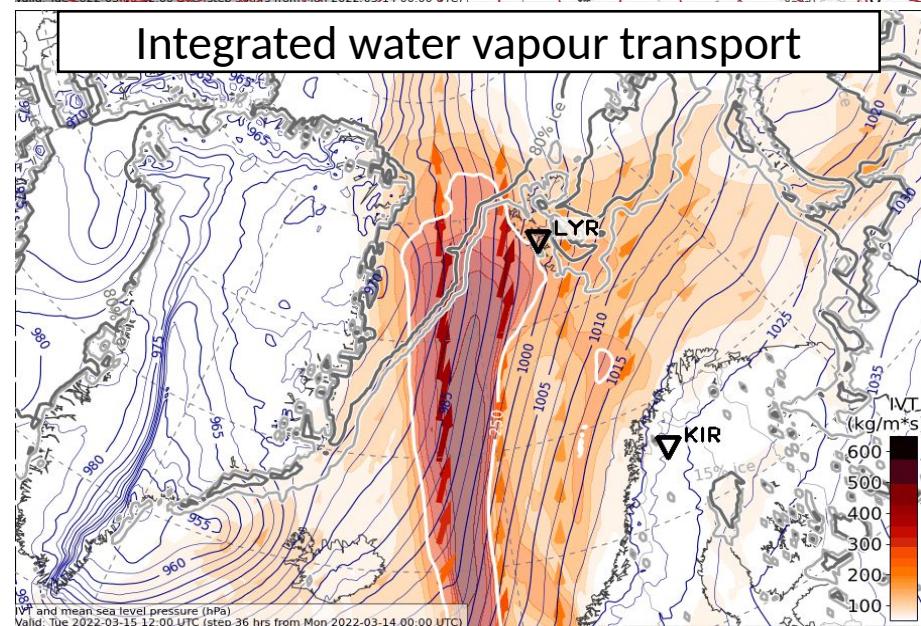
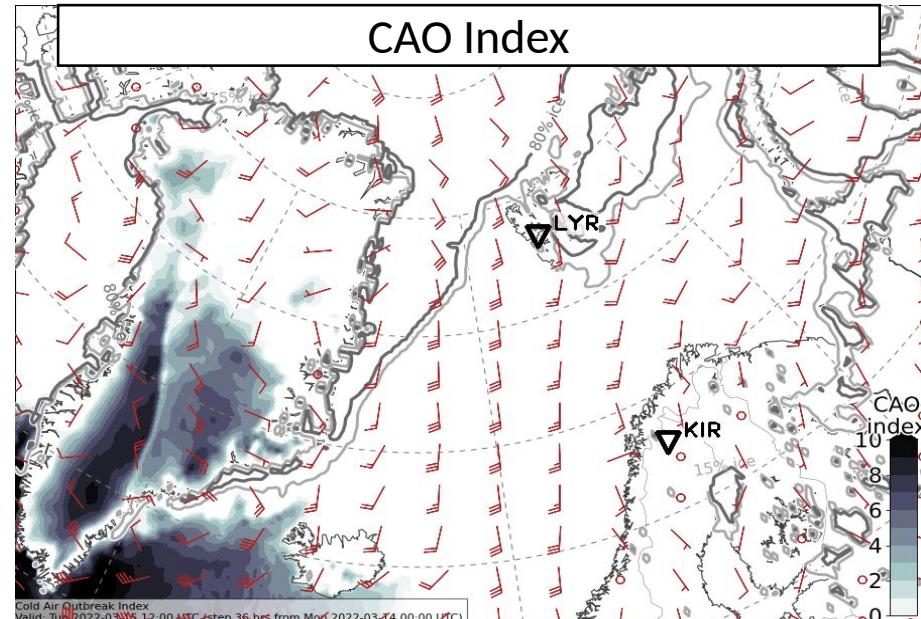
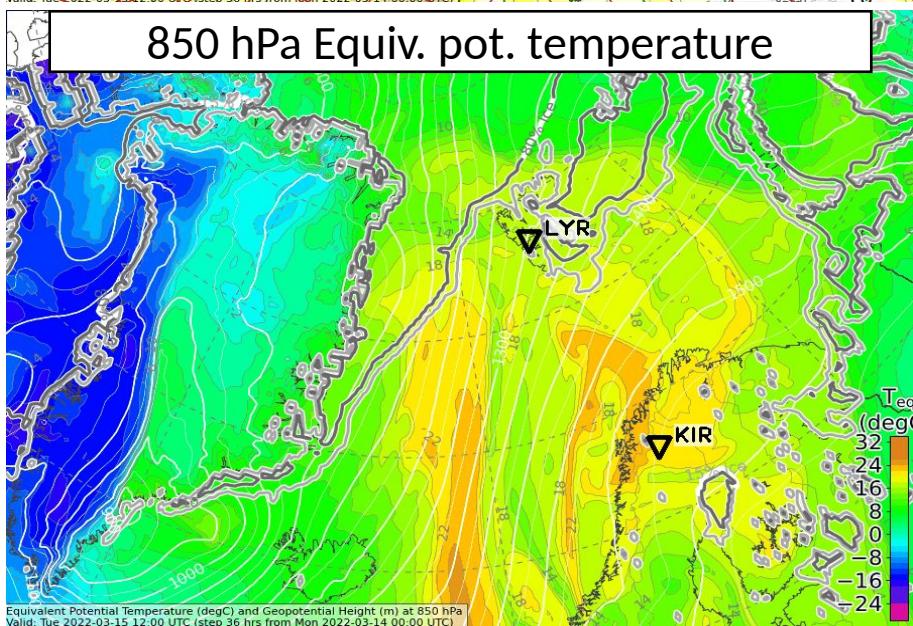
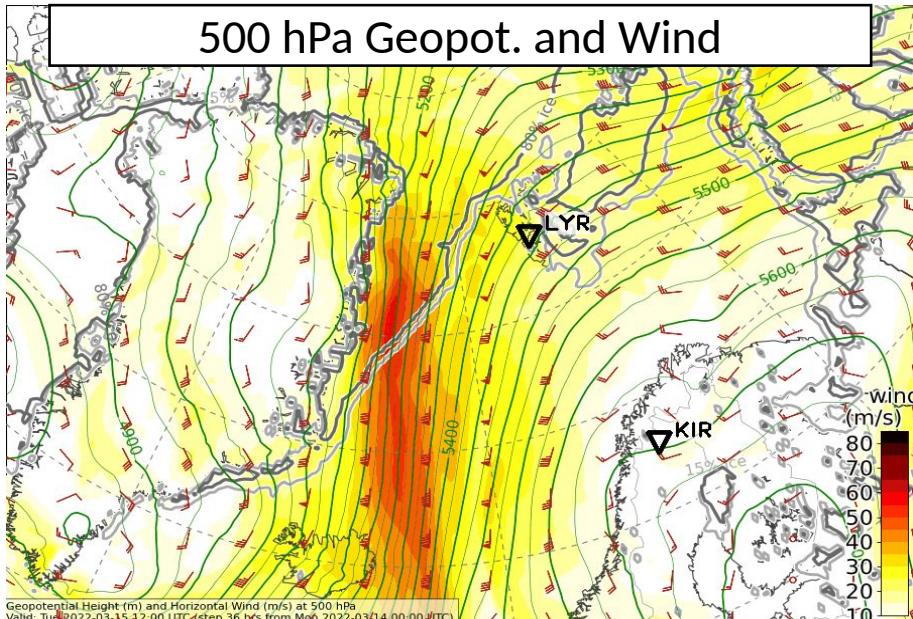
Acc. prec.



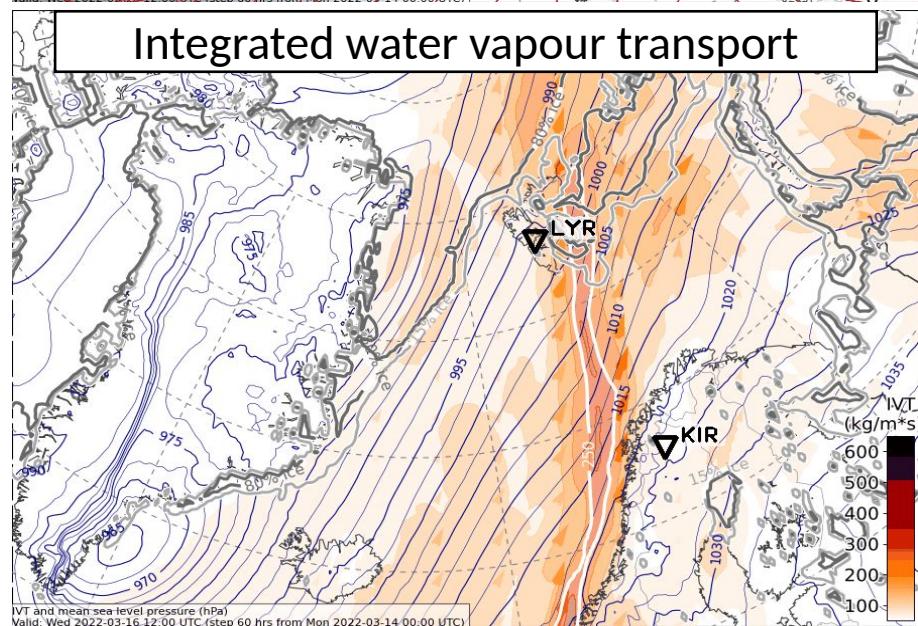
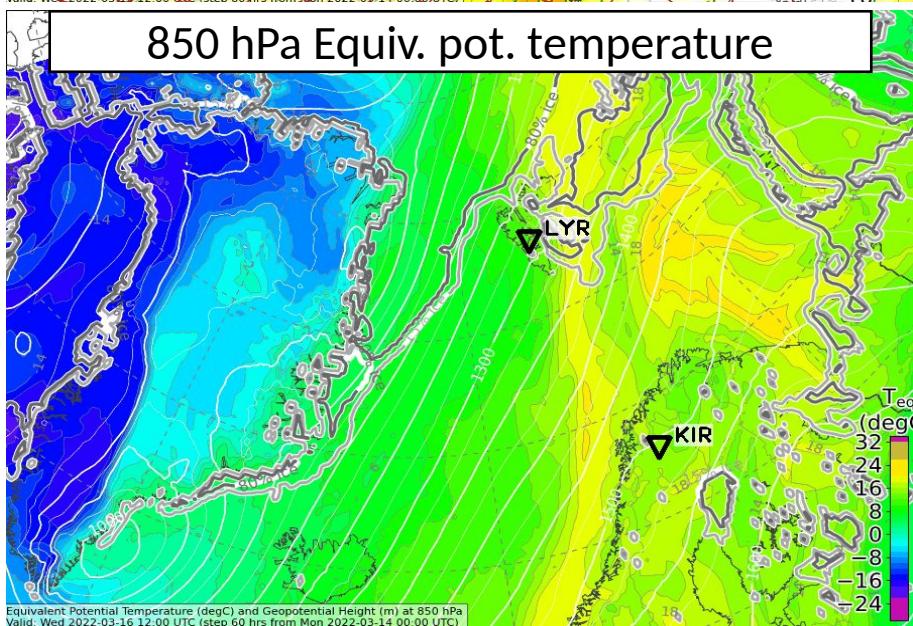
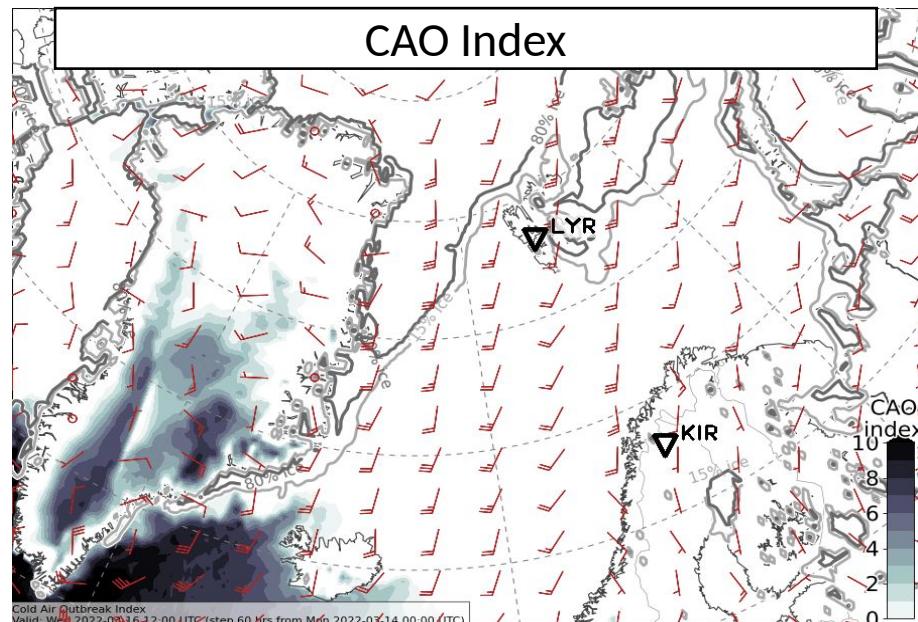
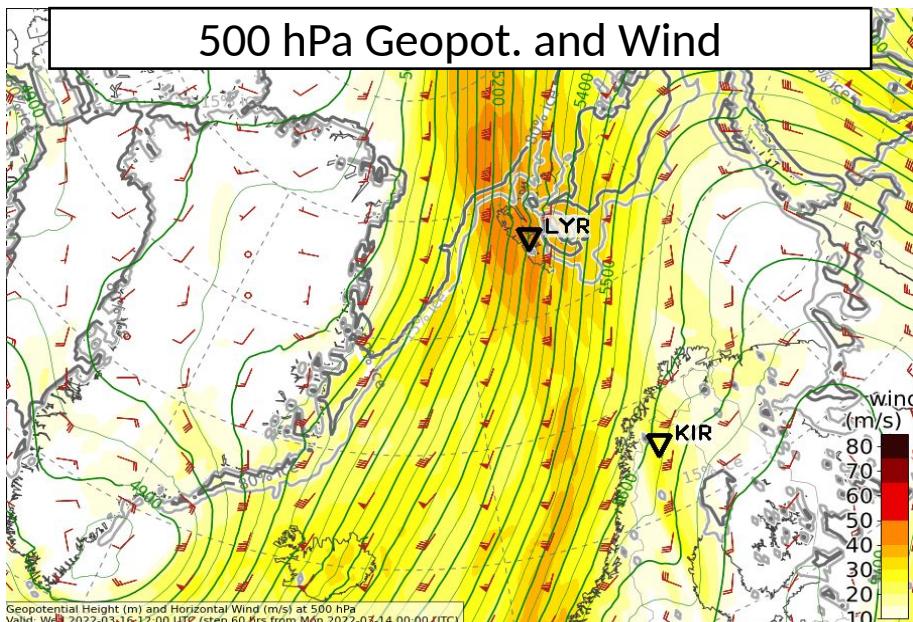
Extra variables

2022-03-14 00 UTC: 36 - 132h
500 hPa wind & 850hPa θ_e & CAO & IVT

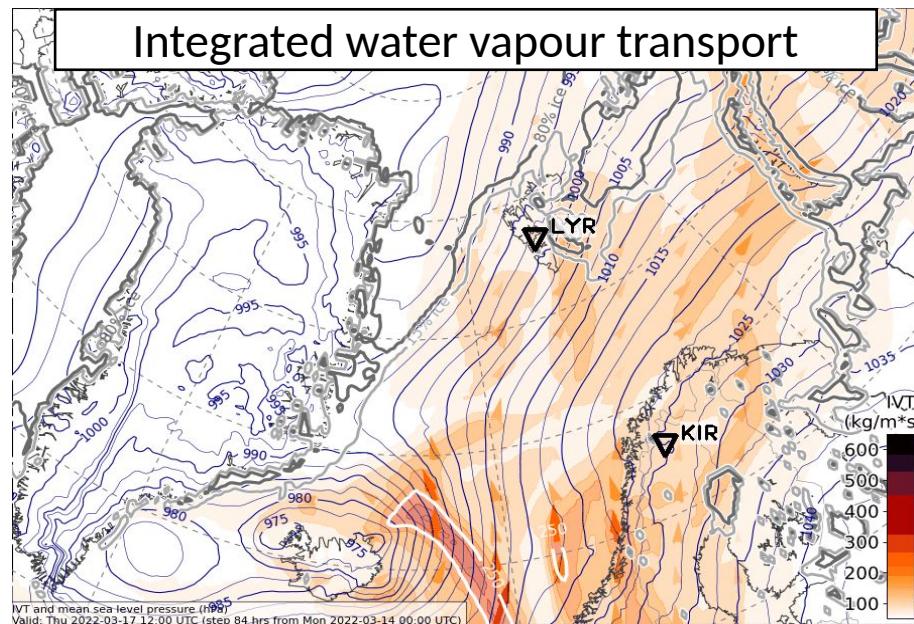
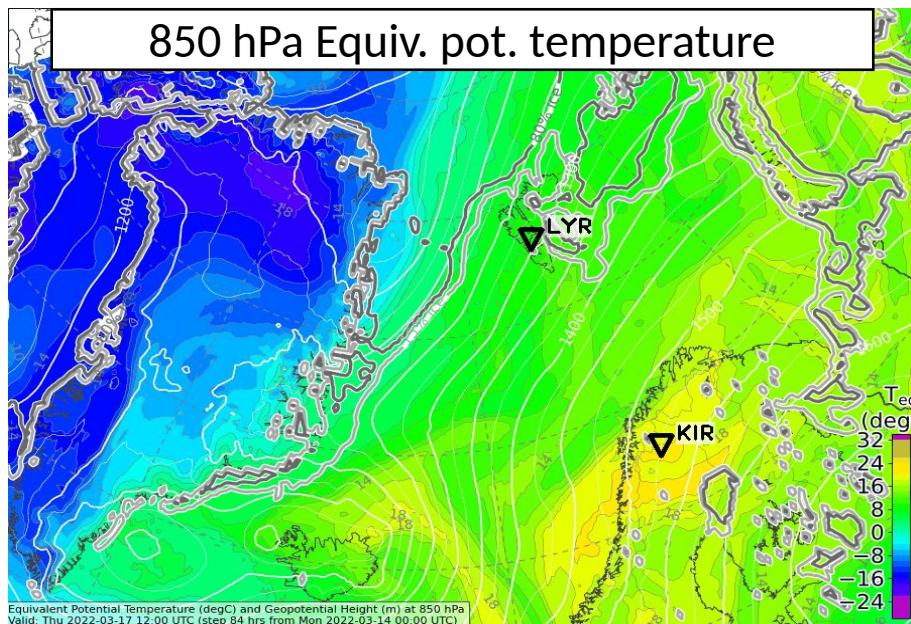
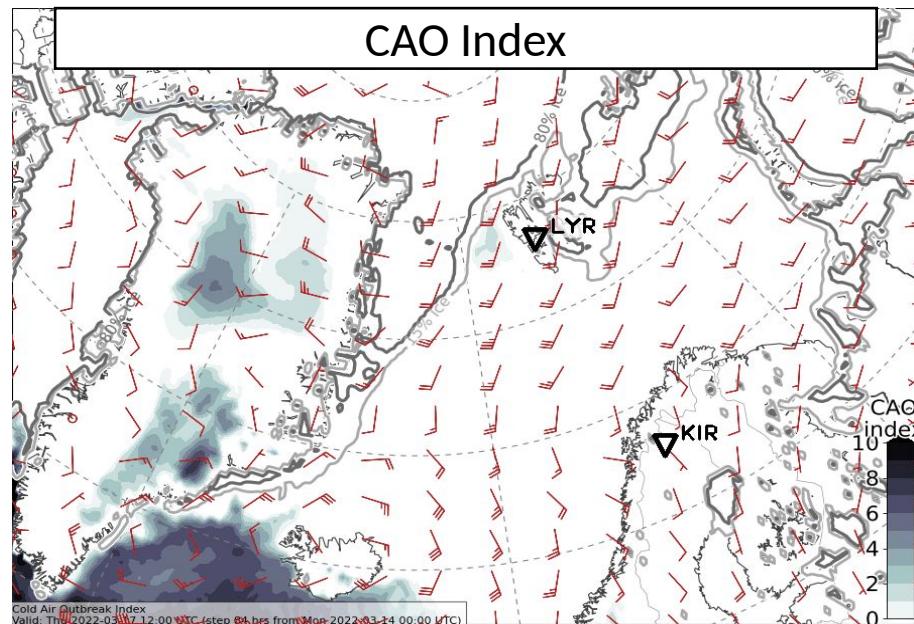
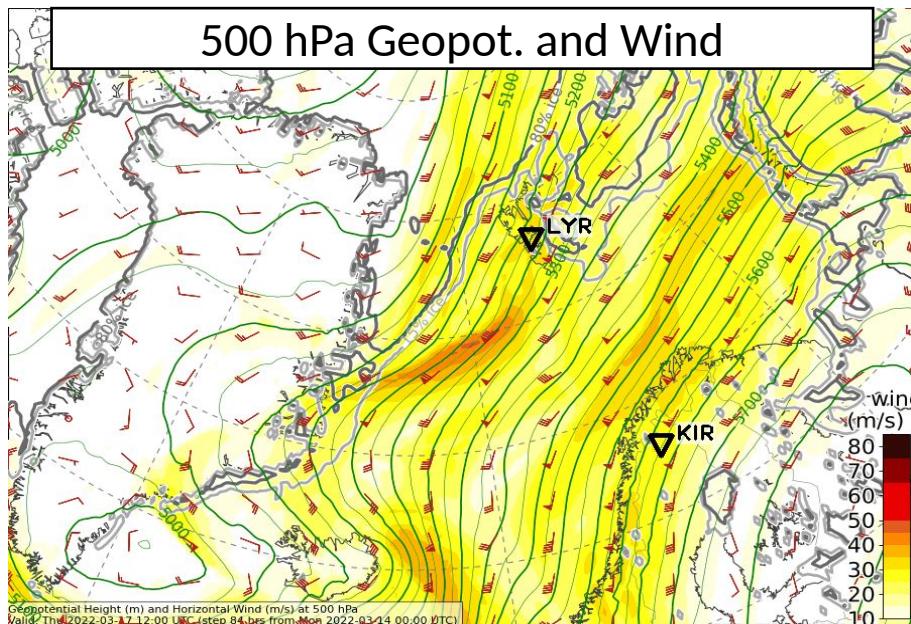
Tue, 2022-03-15 12 UTC (+36h)



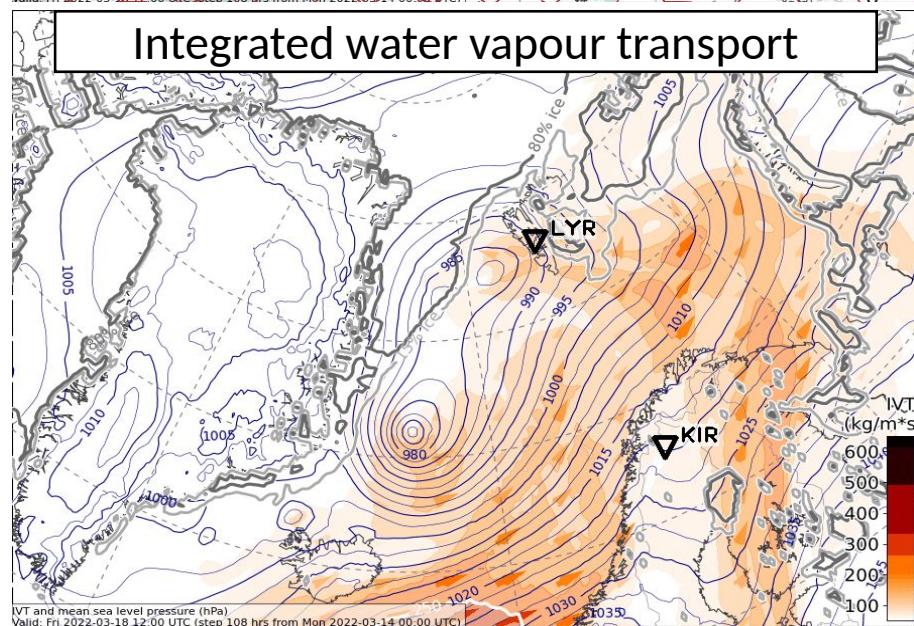
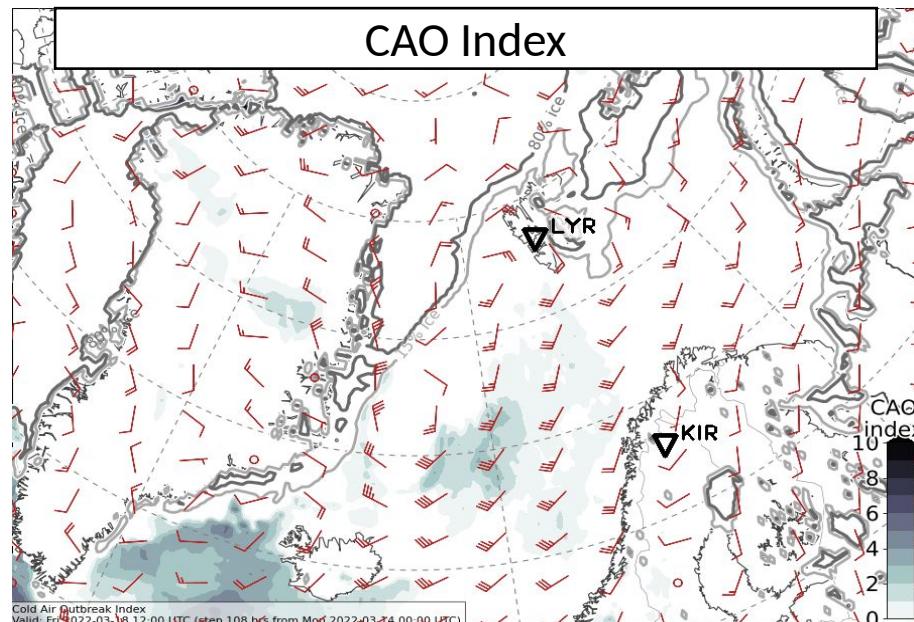
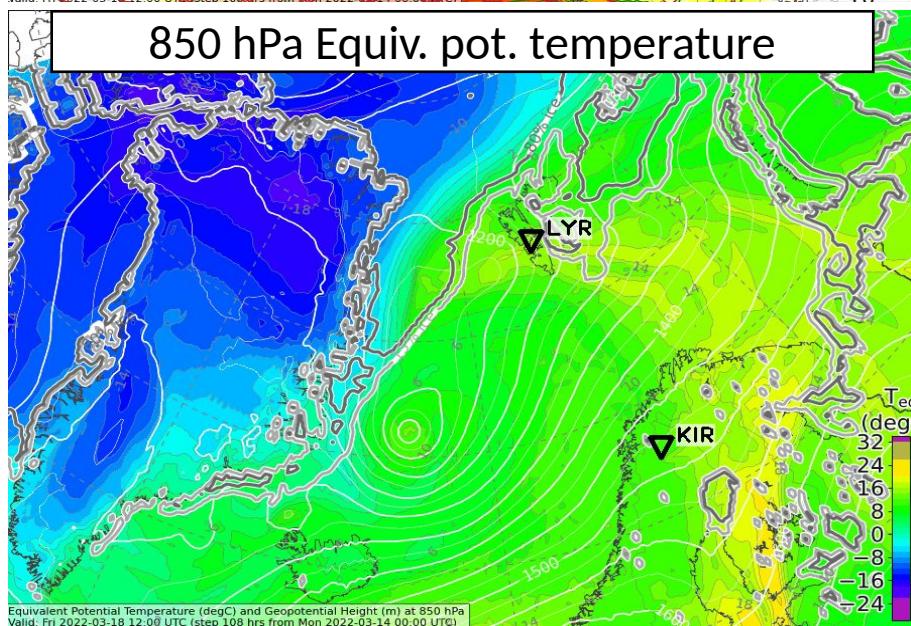
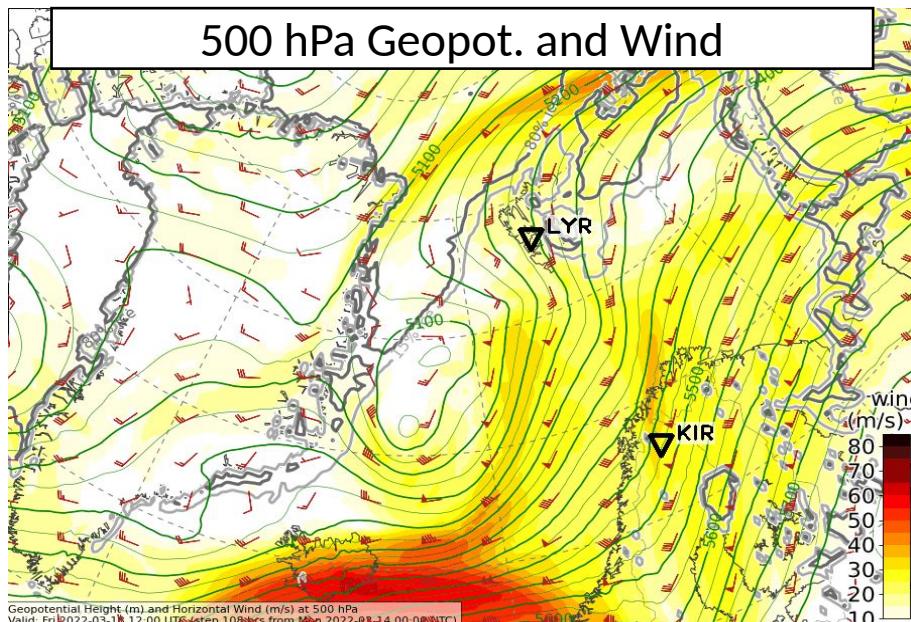
Wed, 2022-03-16 12 UTC (+60h)



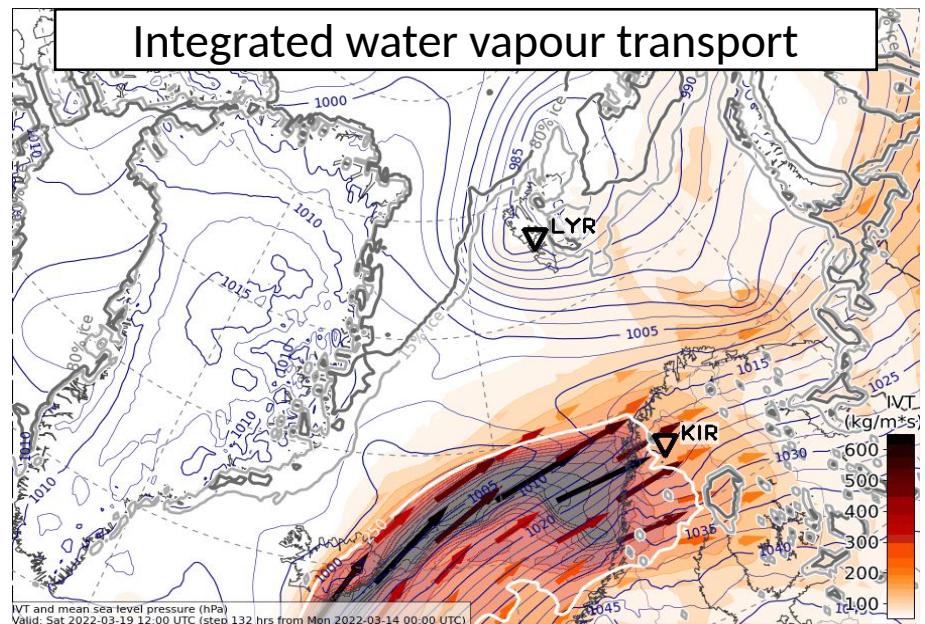
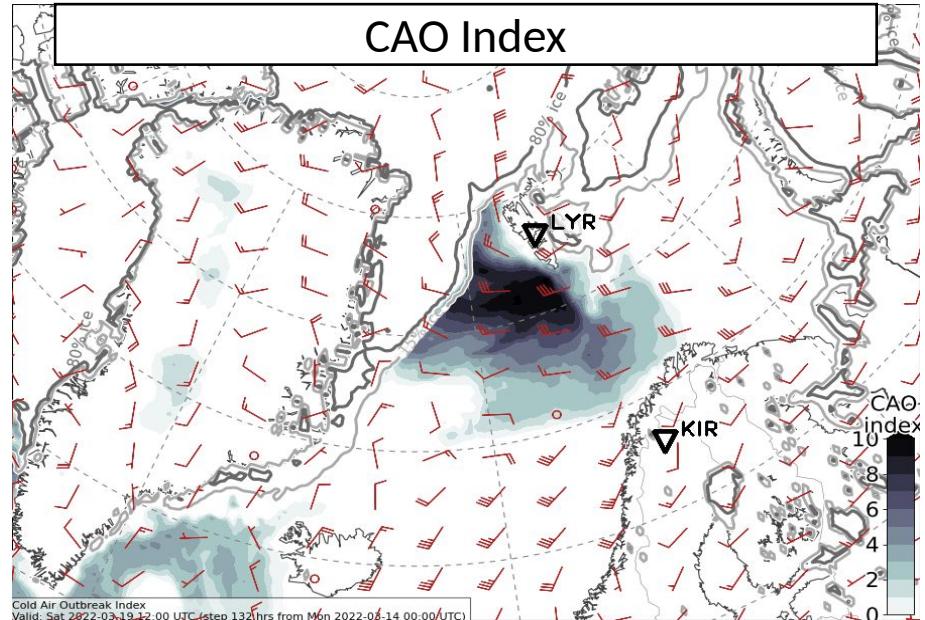
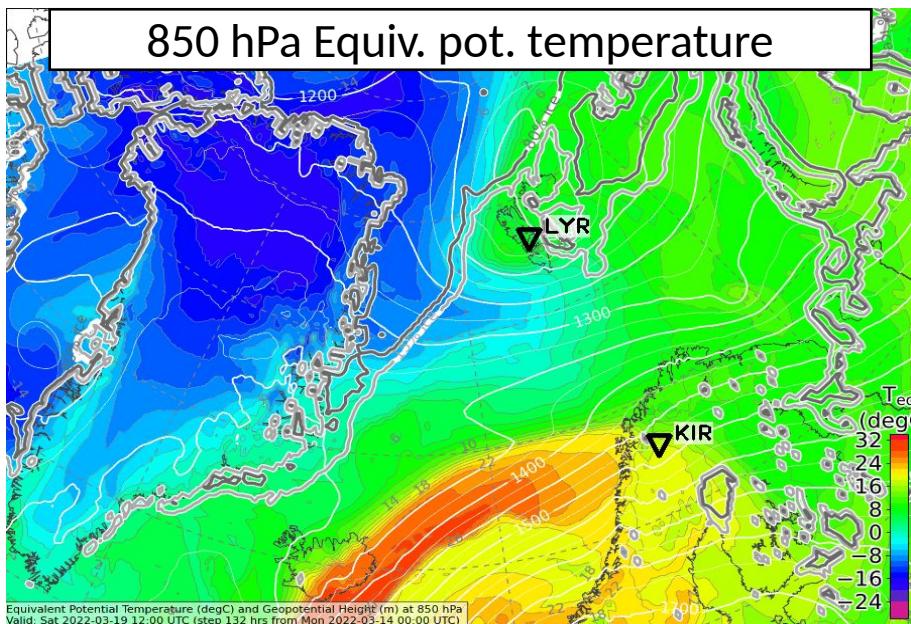
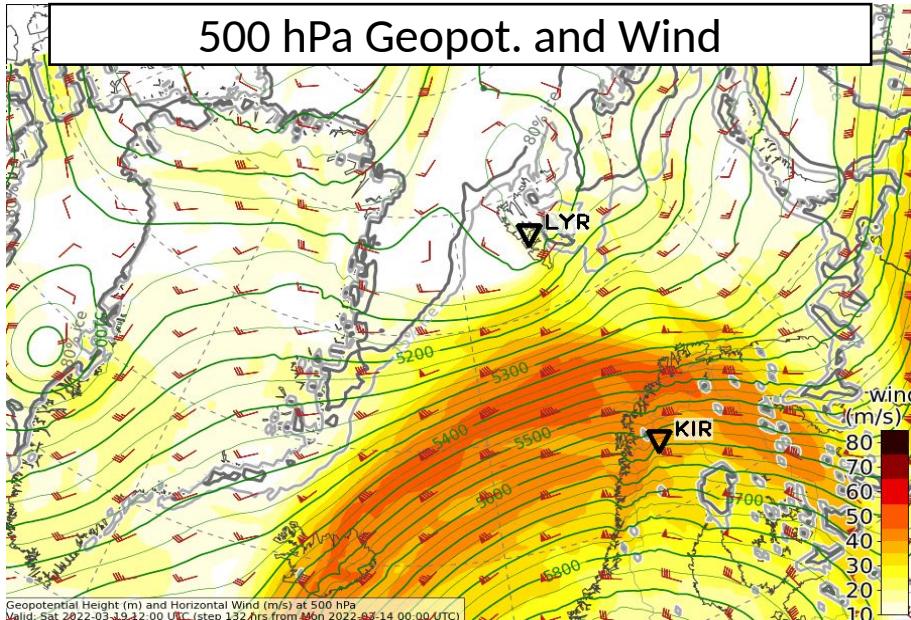
Thu, 2022-03-17 12 UTC (+84h)



Fri, 2022-03-18 12 UTC (+108h)



Sat, 2022-03-19 12 UTC (+132h)

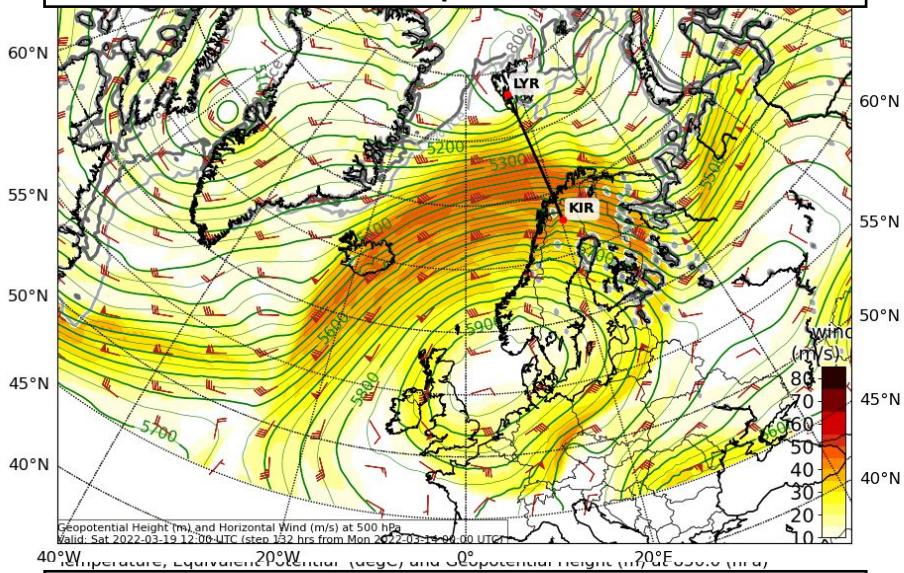


Sat, 2022-03-19 12 UTC (+132h)

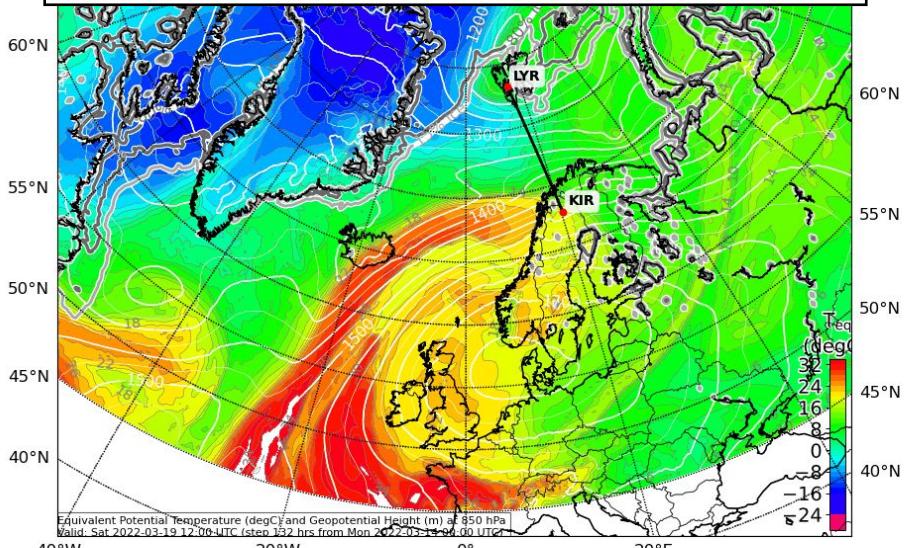
Horizontal Wind (m/s) and Geopotential Height (m), (default) at 500.0 (GPB)

Horizontal Wind (m/s) and Geopotential Height (m) (default) at 500.0 (hPa)

500 hPa Geopot. and Wind

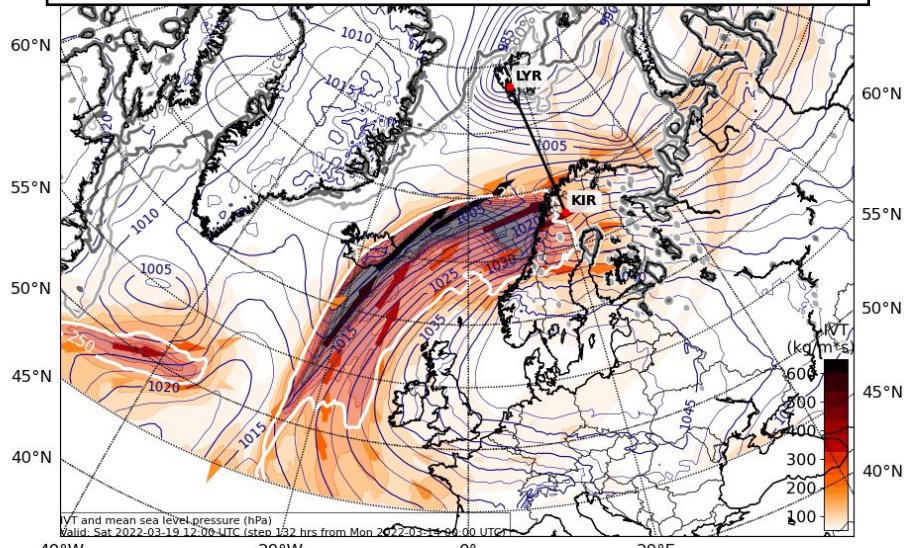


850 hPa Equiv. pot. temperature



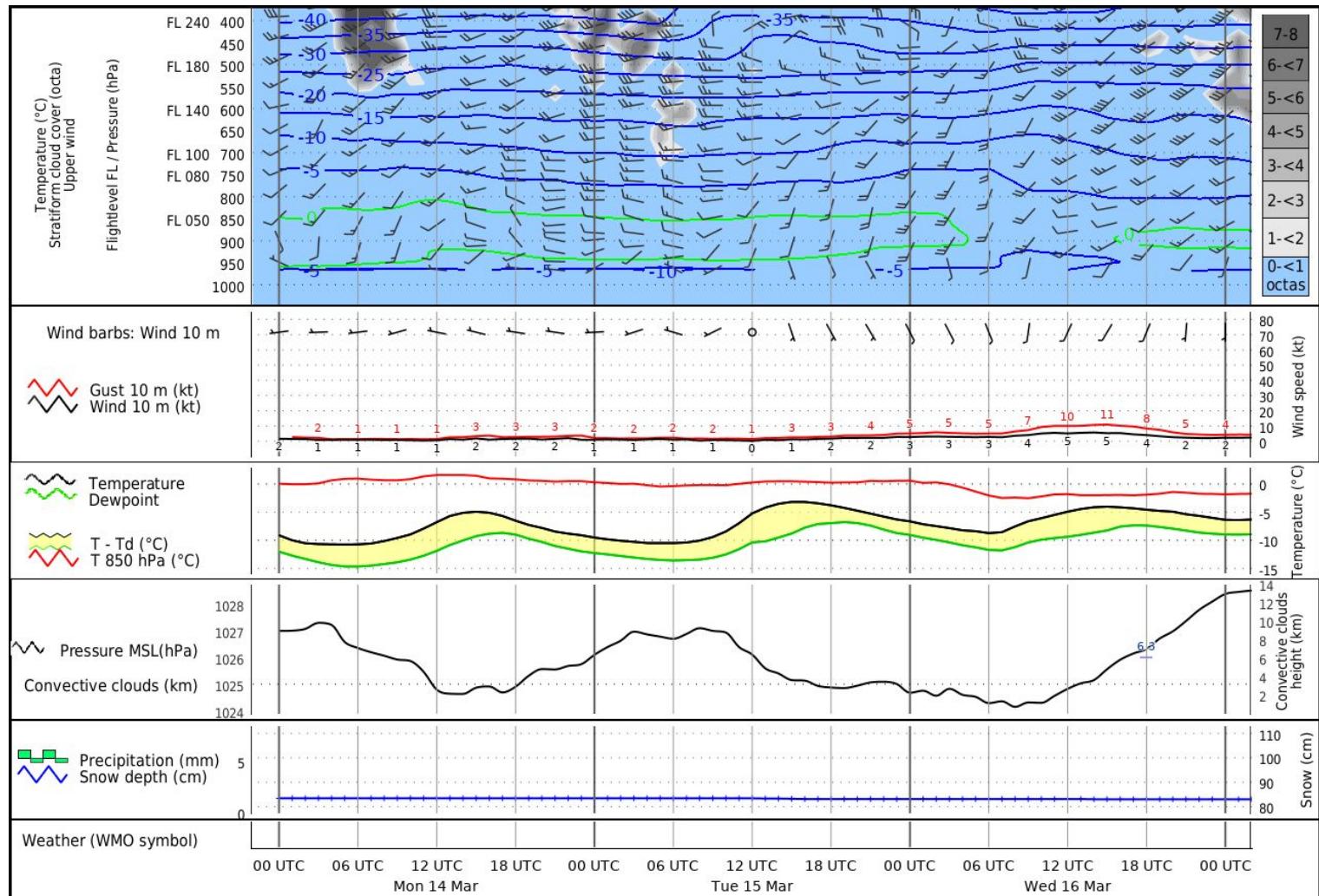
IVT ($\text{kg m}^{-1} \text{s}^{-1}$) and Mean Sea Level Pressure (hPa)

Integrated water vapour transport



Airport meteograms

Kiruna:



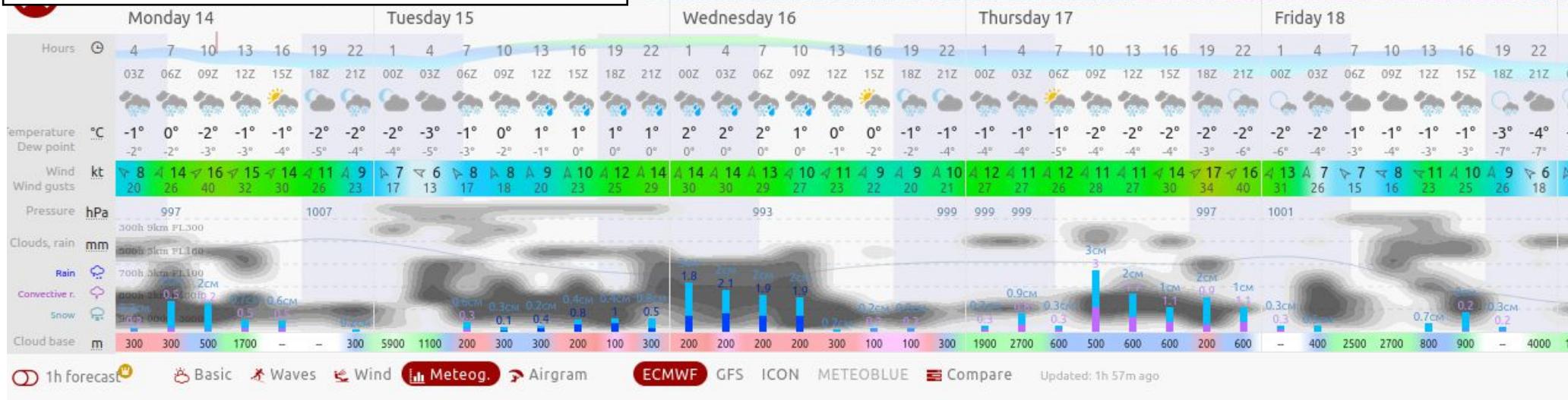
Meteogram Kiruna (ESNQ), 460 m, LAT/LON: N 67°49' E 20°20'

ICON-EU 2022-03-14 00 UTC, model height: 460 m

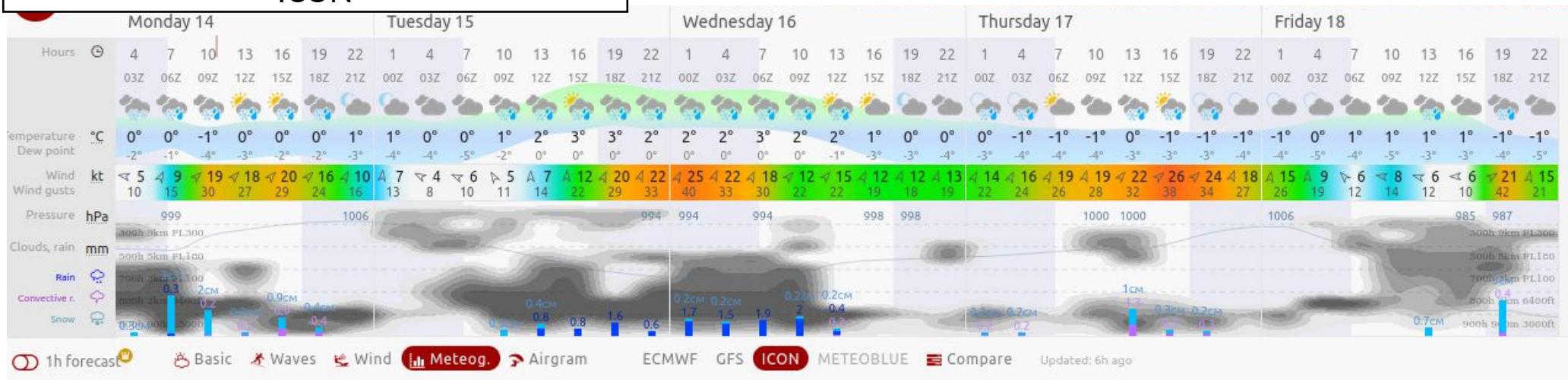
© 2022 Deutscher Wetterdienst

Longyearbyen:

ECWMF

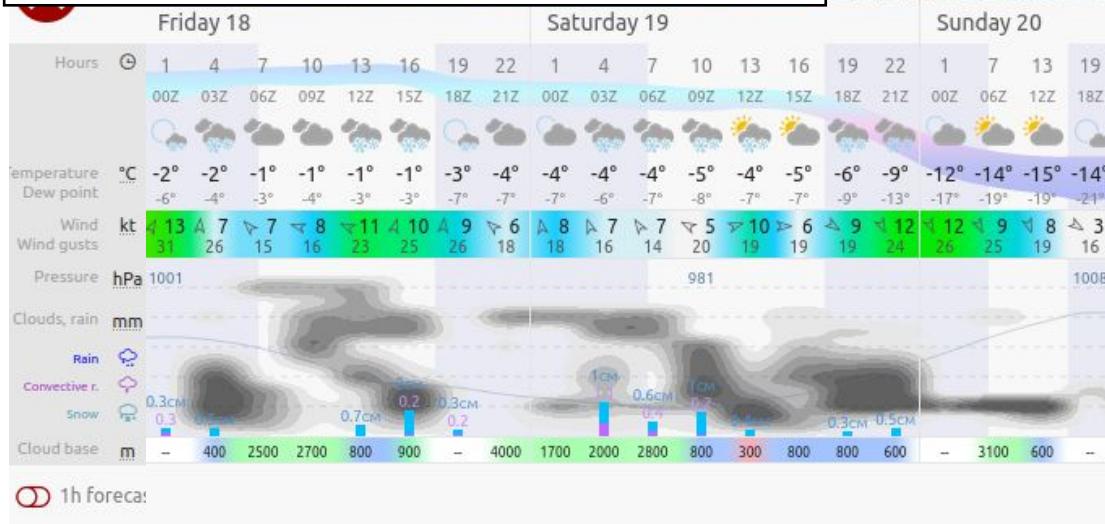


ICON



Longyearbyen:

ECWMF

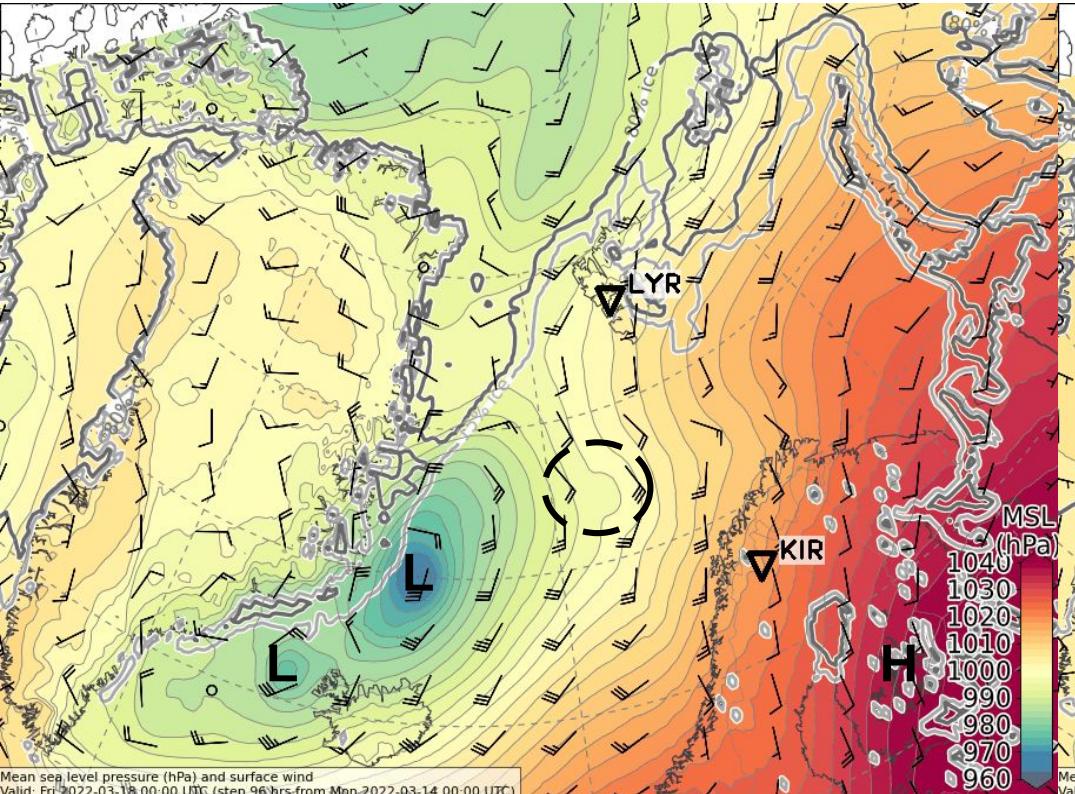


Forecast uncertainty

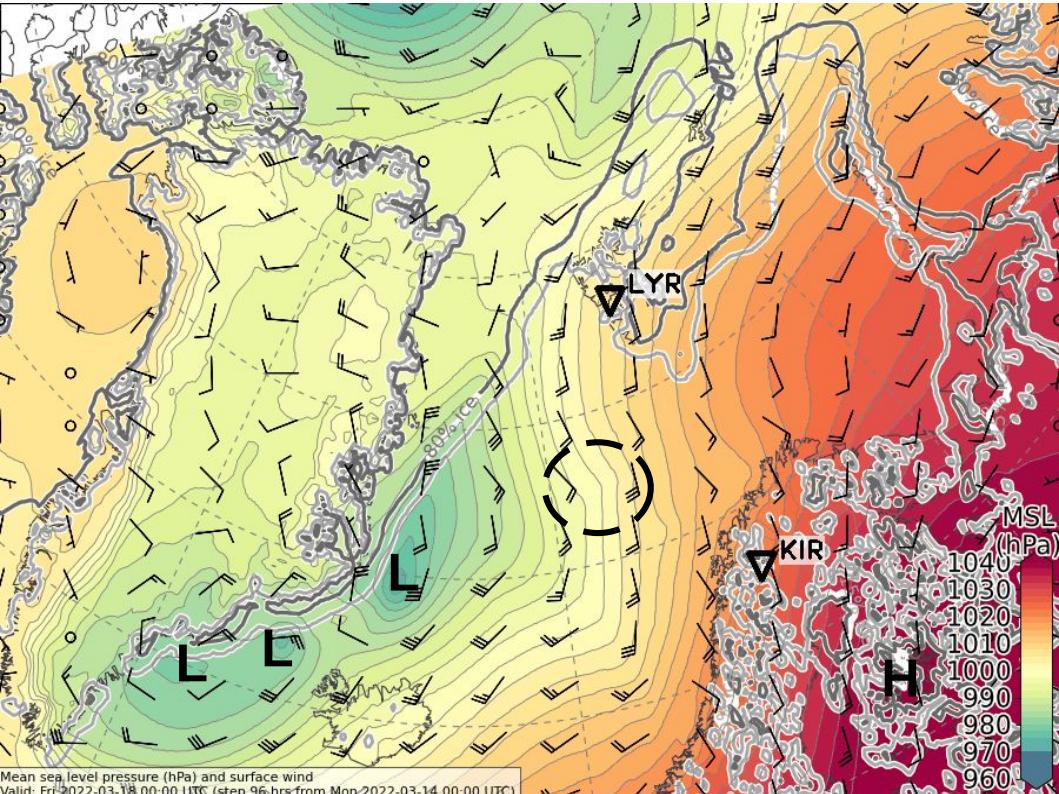
2022-03-14 00 UTC: 96 - 108h

Friday, 2022-03-18 00 UTC (+96h)

ECMWF - Sea level pressure

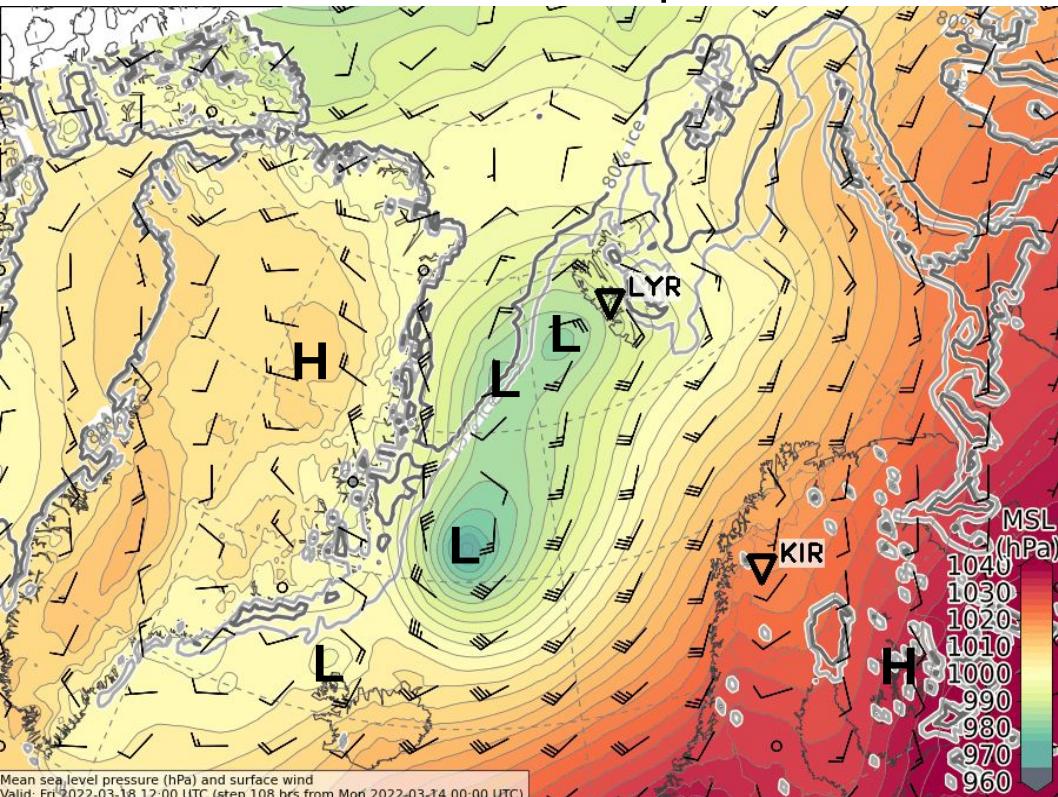


ICON - Sea level pressure

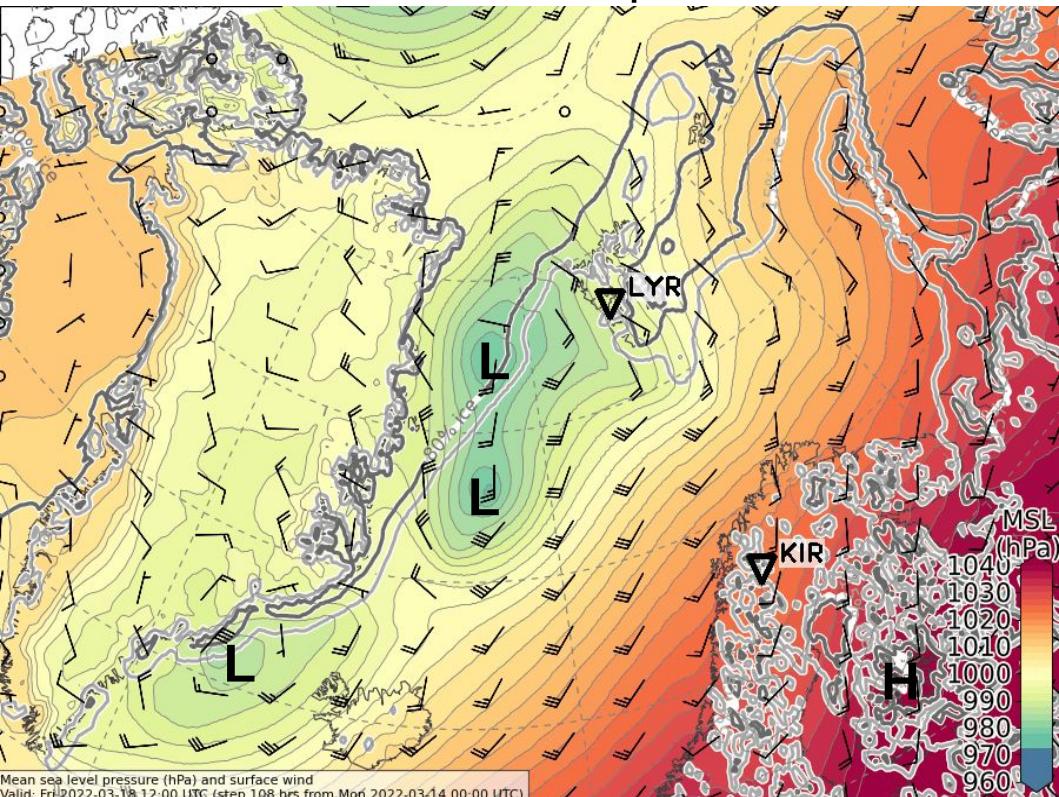


Friday, 2022-03-18 12 UTC (+108h)

ECMWF - Sea level pressure

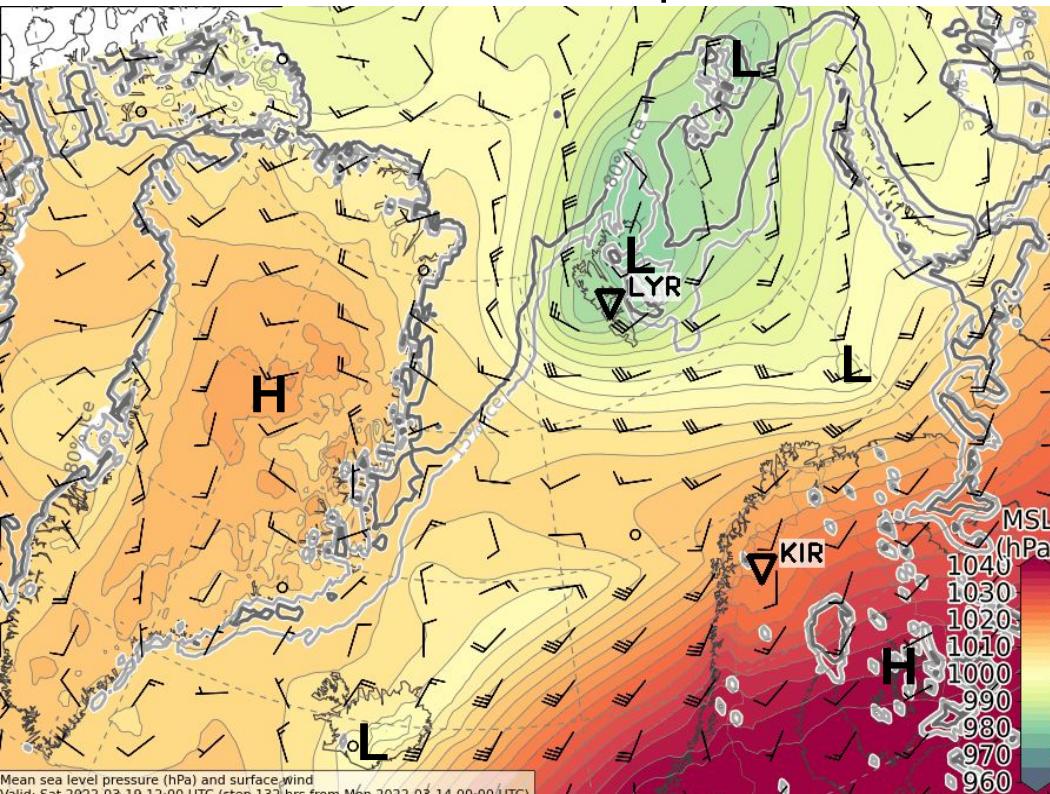


ICON - Sea level pressure

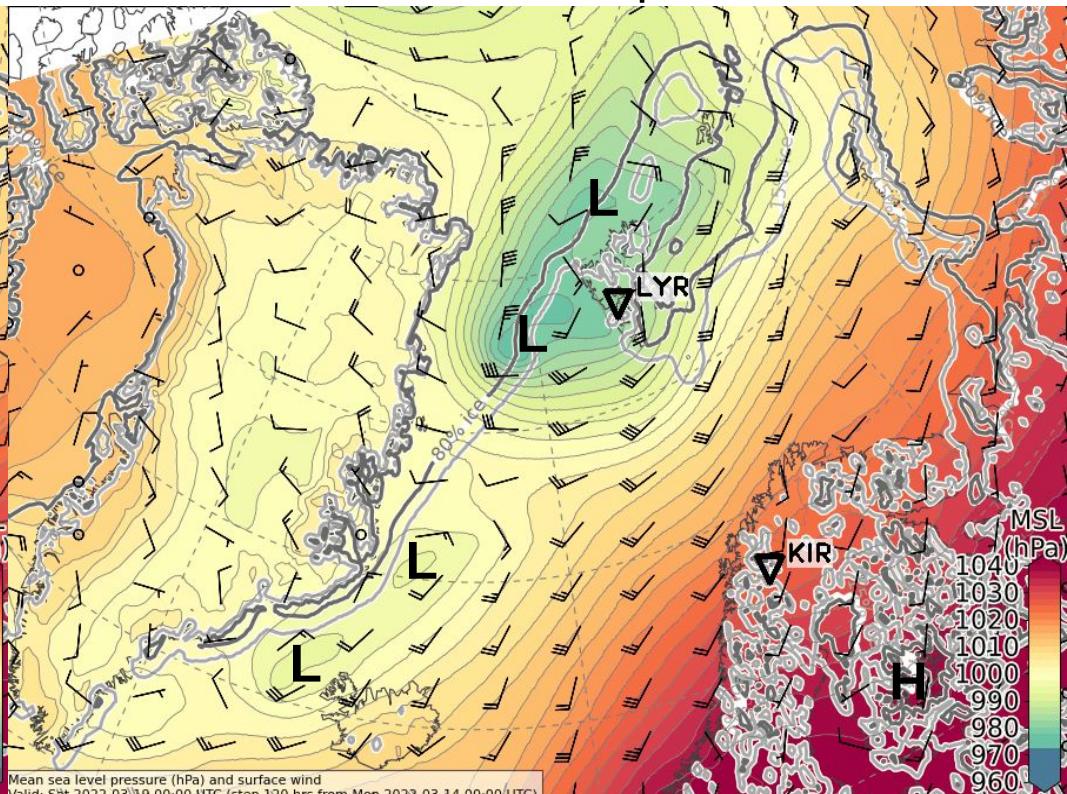


Saturday, 2022-03-19 00 UTC (+120h)

ECMWF - Sea level pressure

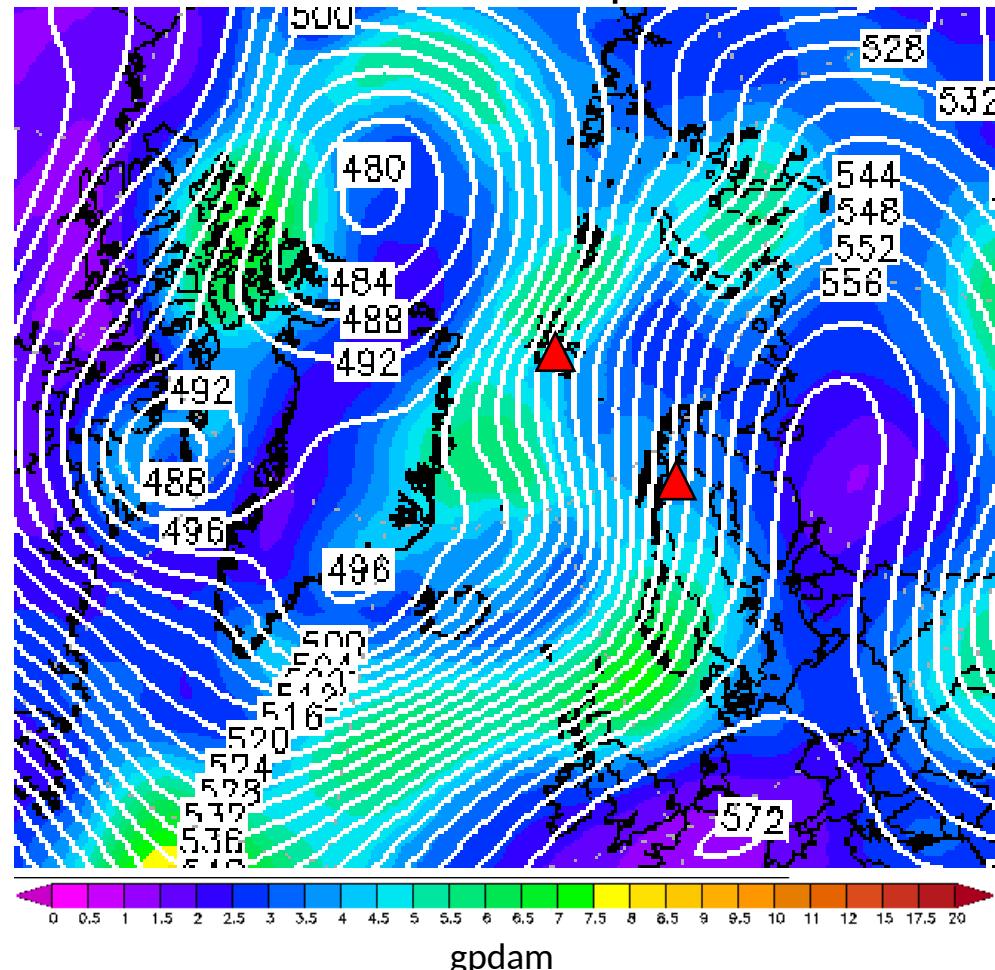


ICON - Sea level pressure

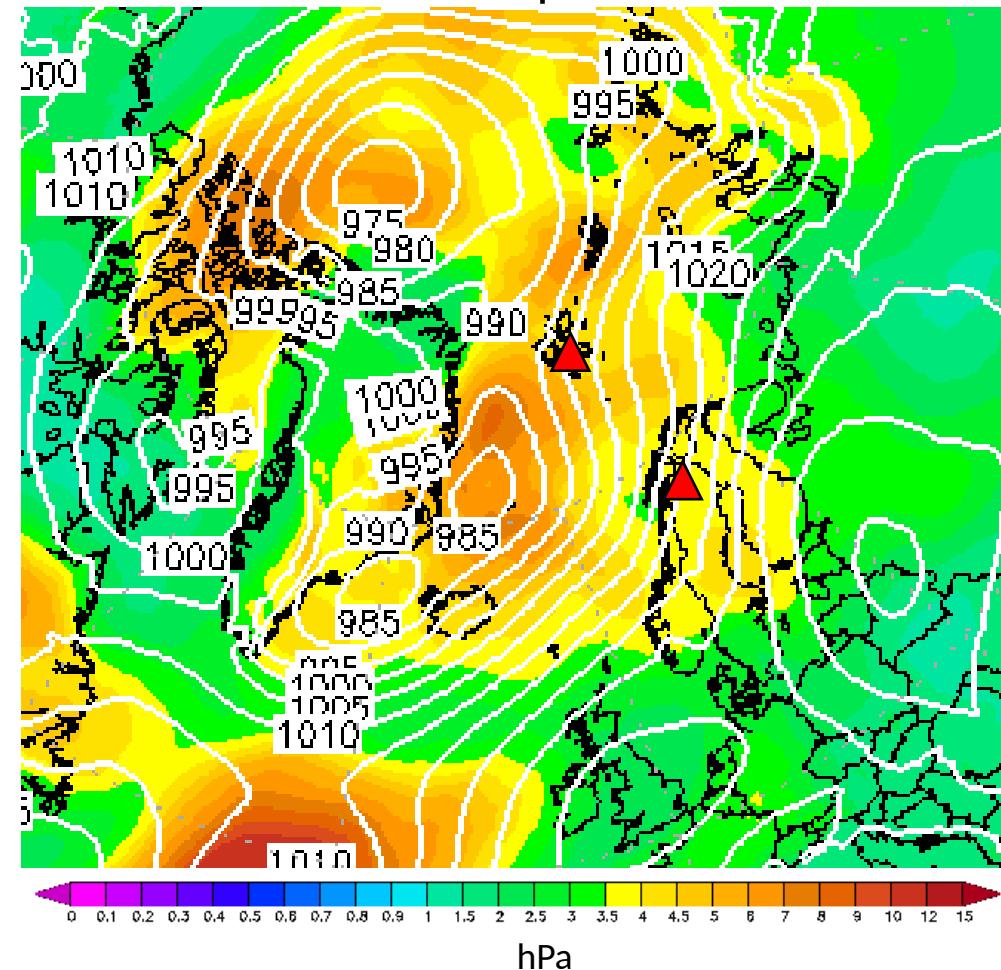


Friday, 2022-03-18 00 UTC (+96h)

500 hPa Geopot.

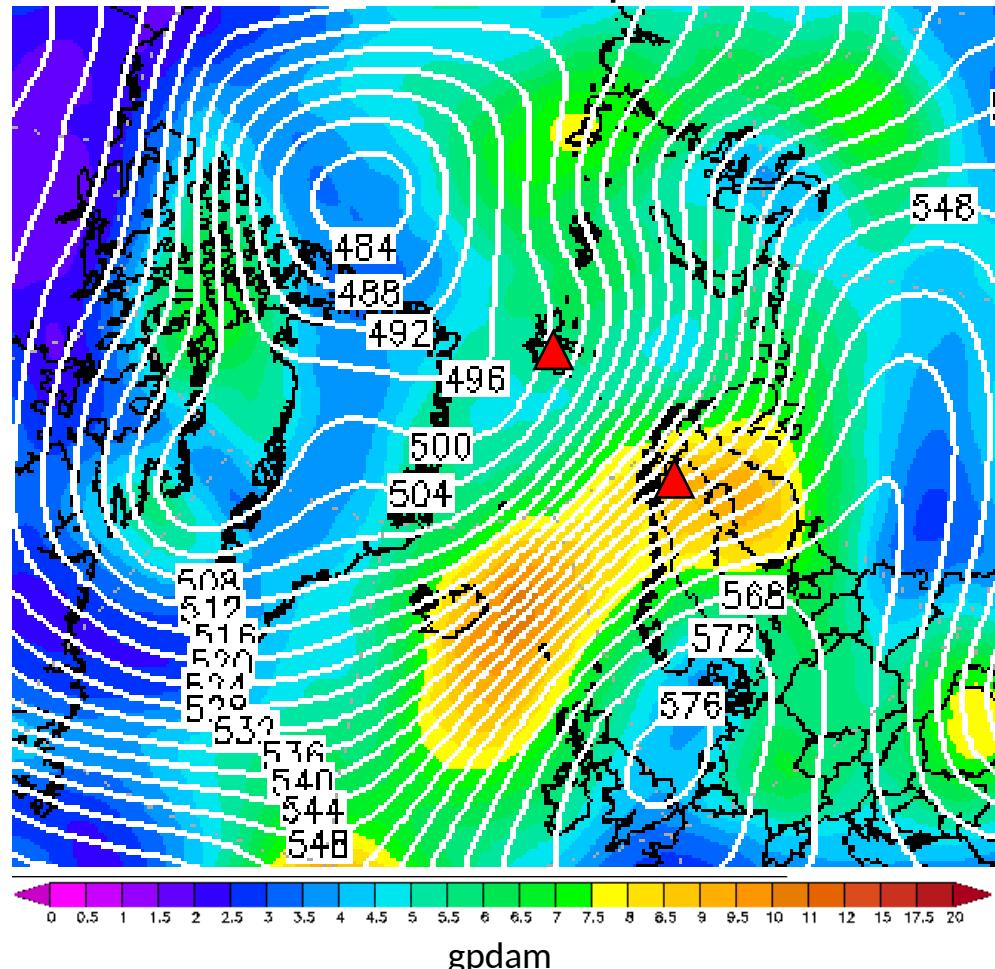


Sea level pressure

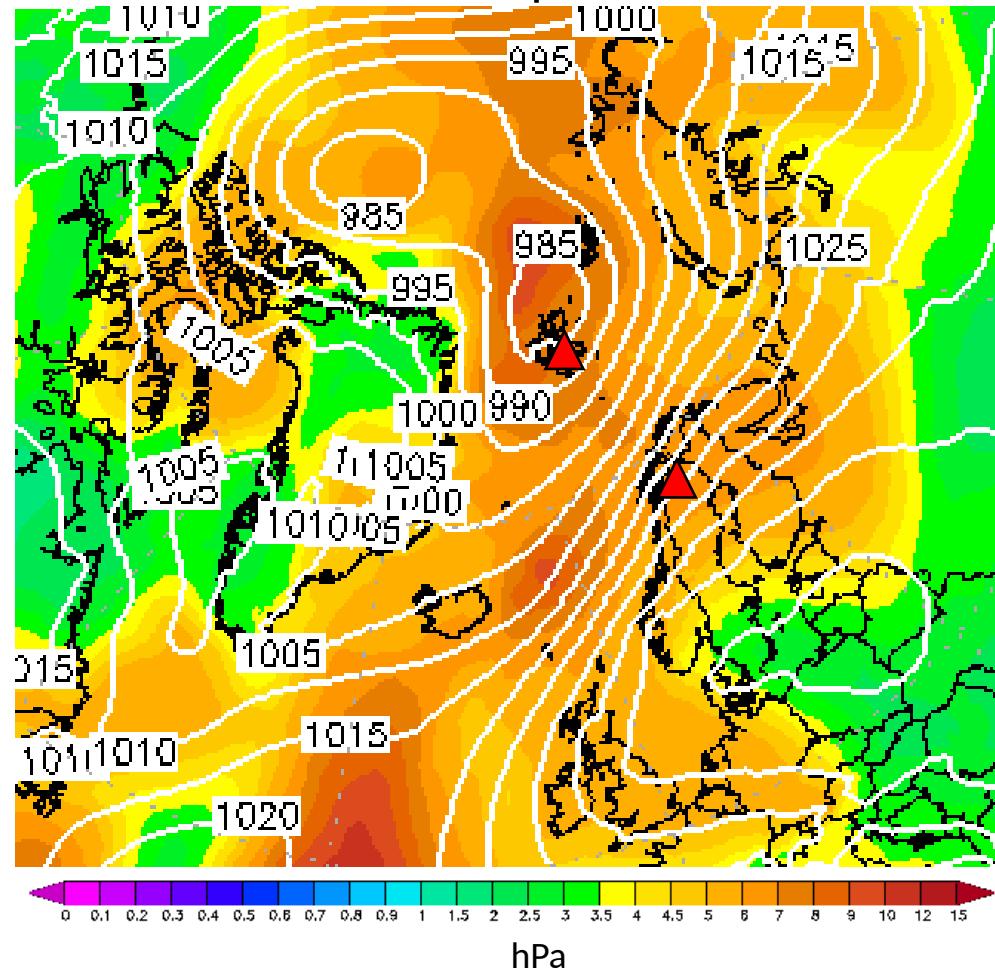


Saturday, 2022-03-19 00 UTC (+120h)

500 hPa Geopot.



Sea level pressure



Summary

Summary: Weather Briefing 2022-03-14, 17:00 LT

- **Tuesday, 2022-03-15:**
 - Strong AR event over Fram Strait associated with some rain near the ice edge
- **Wednesday, 2022-03-16:**
 - AR directed from Norwegian coast (offshore) to Svalbard and Arctic Ocean further north
 - Front over sea ice NE of Greenland causing snow over presumably closed sea ice
- **Thursday, 2022-03-17:**
 - Slightly cooler and drier airmasses over Fram Strait
 - SW flow over open water + large vertical T-difference = snow showers over Svalbard
- **Friday, 2022-03-18:**
 - Cyclone(s) over Fram Strait, presumably with another front + precipitation approaching Svalbard from SW
 - However, uncertainties in exact position of these structures and thus in the predicted precipitation
- **Saturday, 2022-03-19:**
 - Cold air advection/cold air outbreak over Fram Strait almost from West to East originating from Greenland
 - Very warm and moist airmass advection towards Kiruna from SW
 - Uncertainties increase