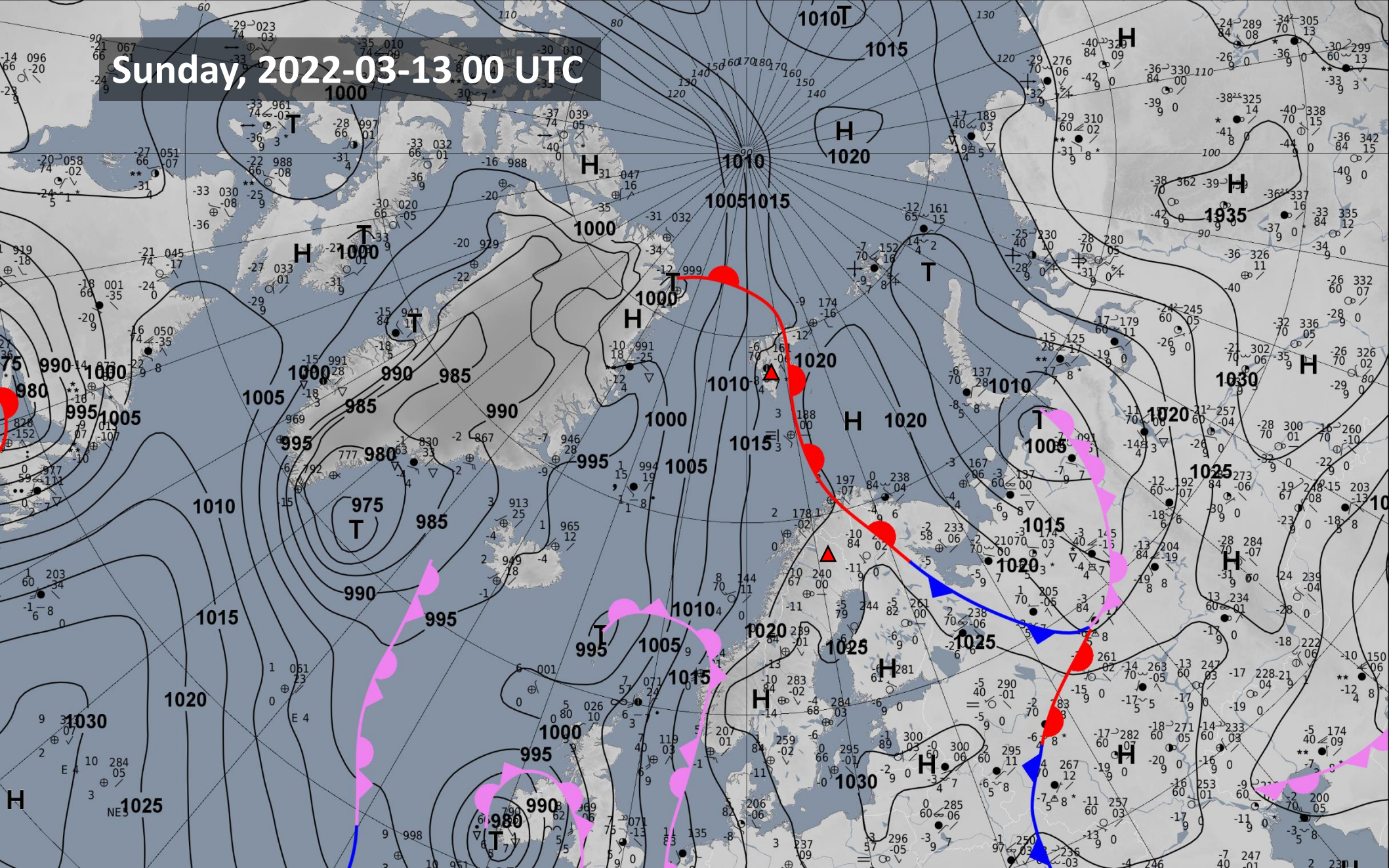


Weather briefing HALO-(AC)³

Sunday, 2022-03-13 17:00 LT

Surface Analysis
2022-03-13 00 UTC
DWD

Sunday, 2022-03-13 00 UTC



Circulation pattern development

2022-03-13 00 UTC: 00 – 108h

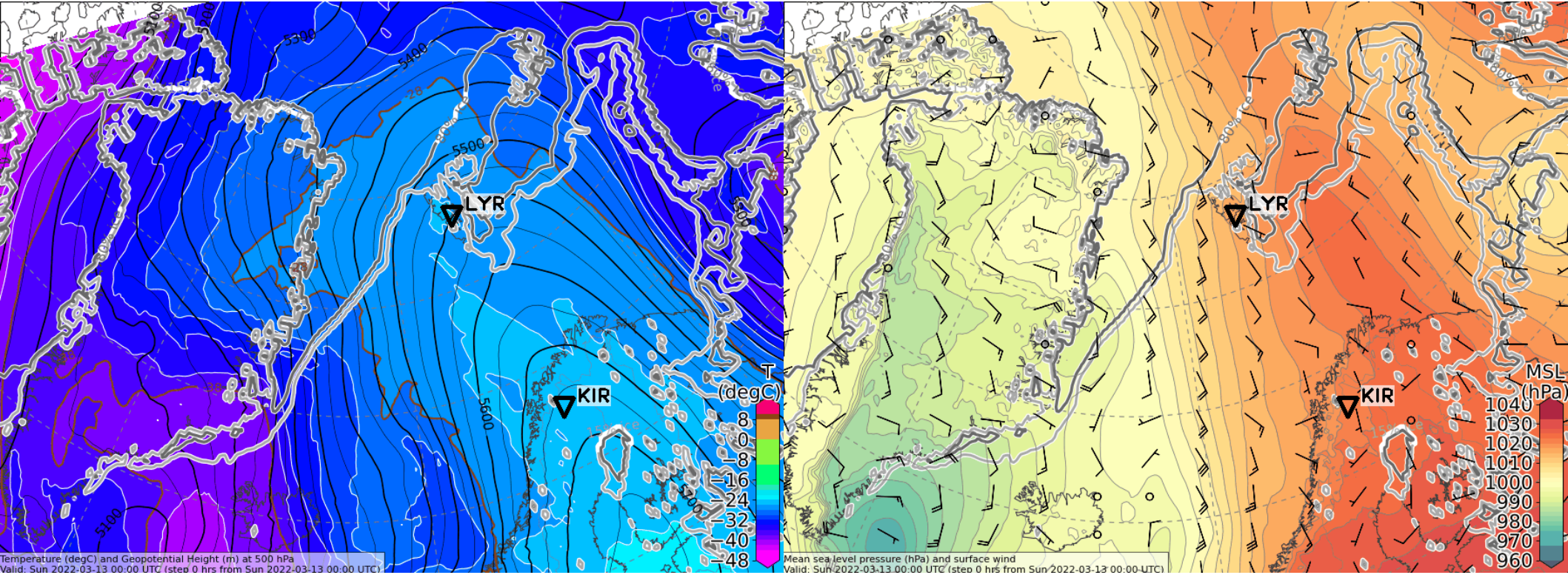
500 hPa Geopot & T

Sea level pressure

Sunday, 2022-03-13 00 UTC (+00h)

500 hPa Geopot & T

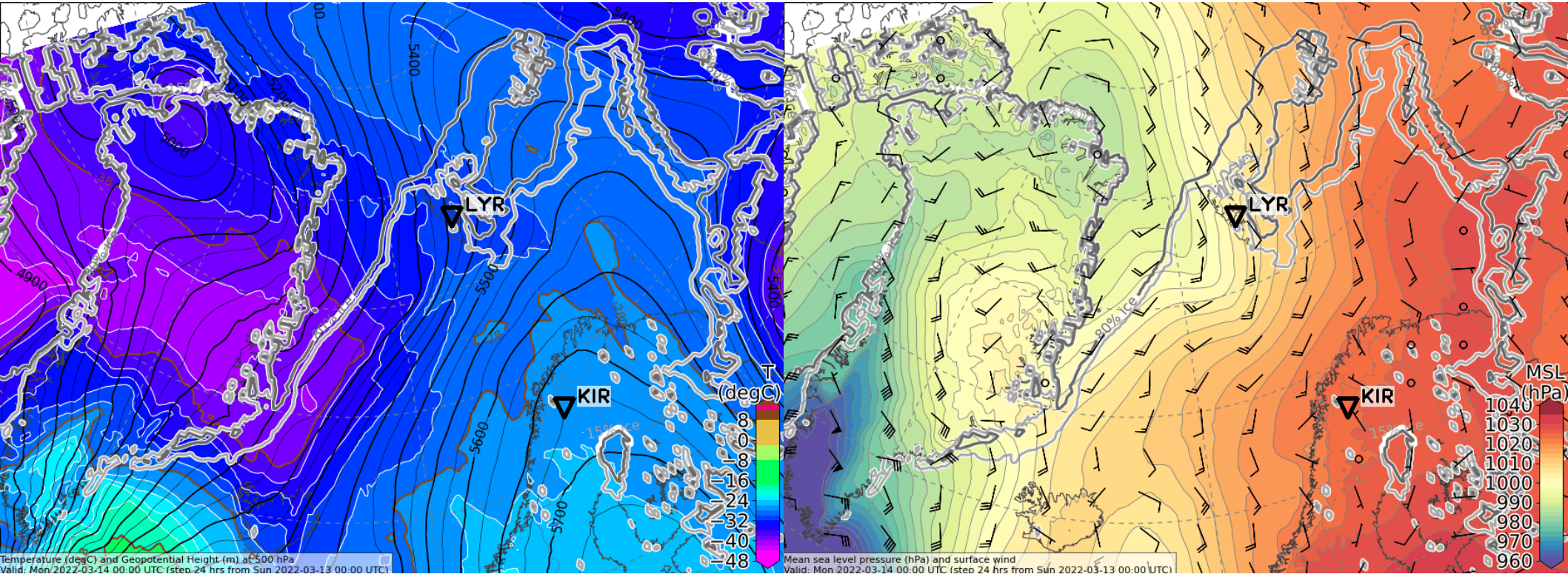
Sea level pressure



Monday, 2022-03-14 00 UTC (+24h)

500 hPa Geopot & T

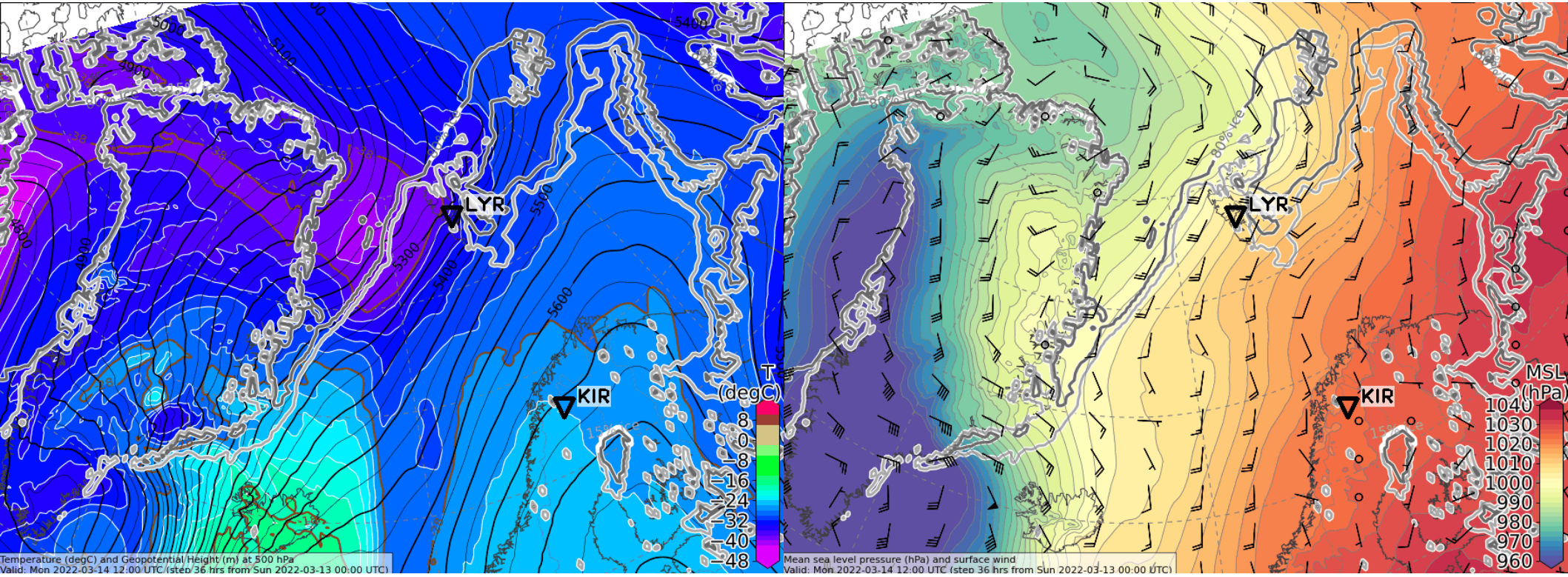
Sea level pressure



Monday, 2022-03-14 12 UTC (+36h)

500 hPa Geopot & T

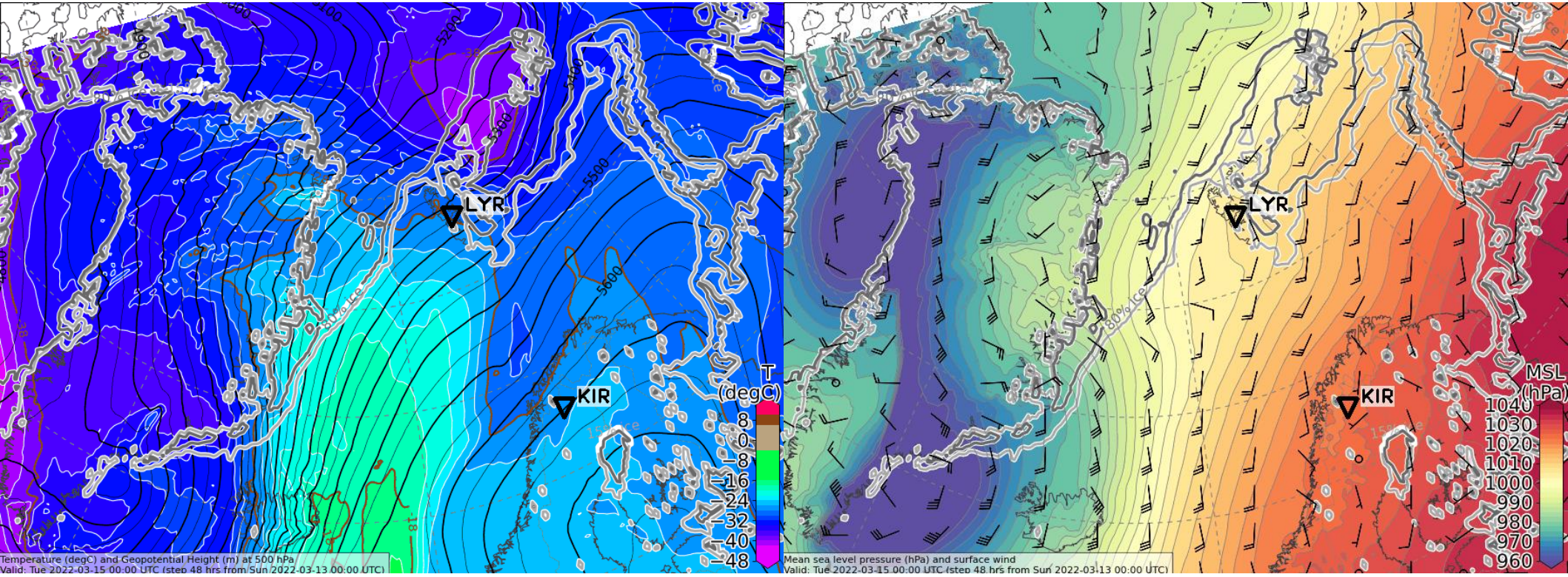
Sea level pressure



Tuesday, 2022-03-15 00 UTC (+48h)

500 hPa Geopot & T

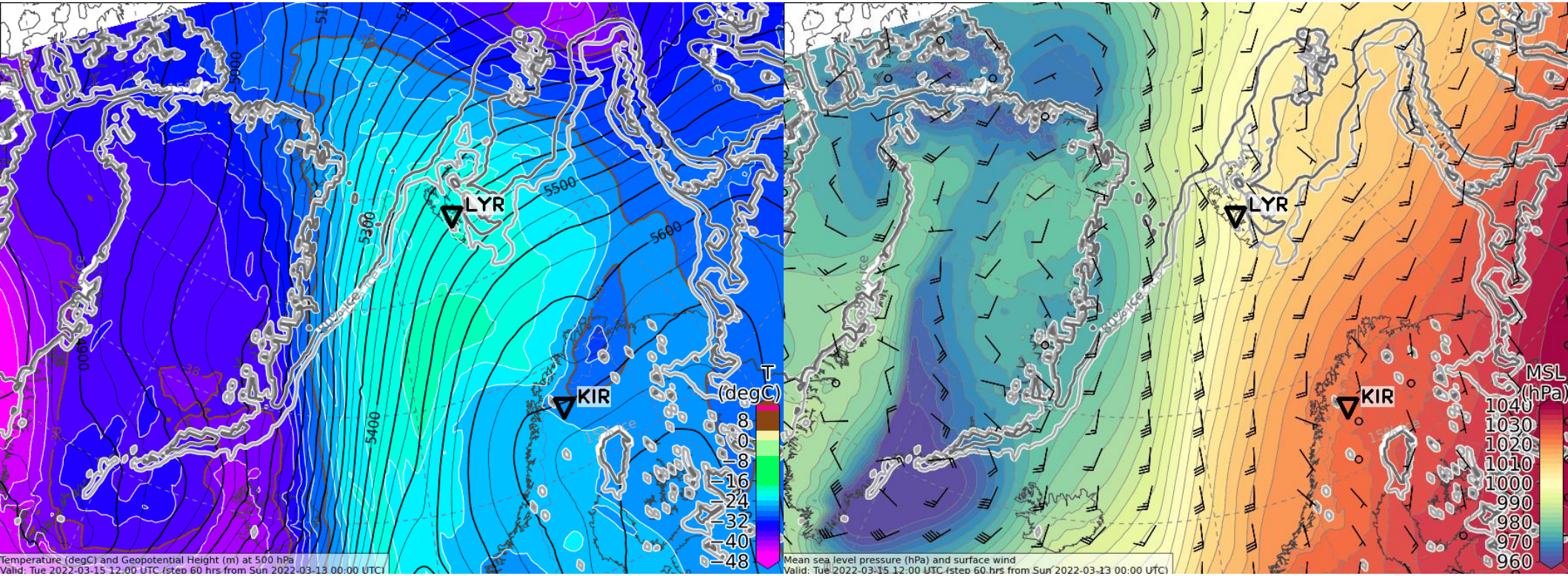
Sea level pressure



Tuesday, 2022-03-15 12 UTC (+60h)

500 hPa Geopot & T

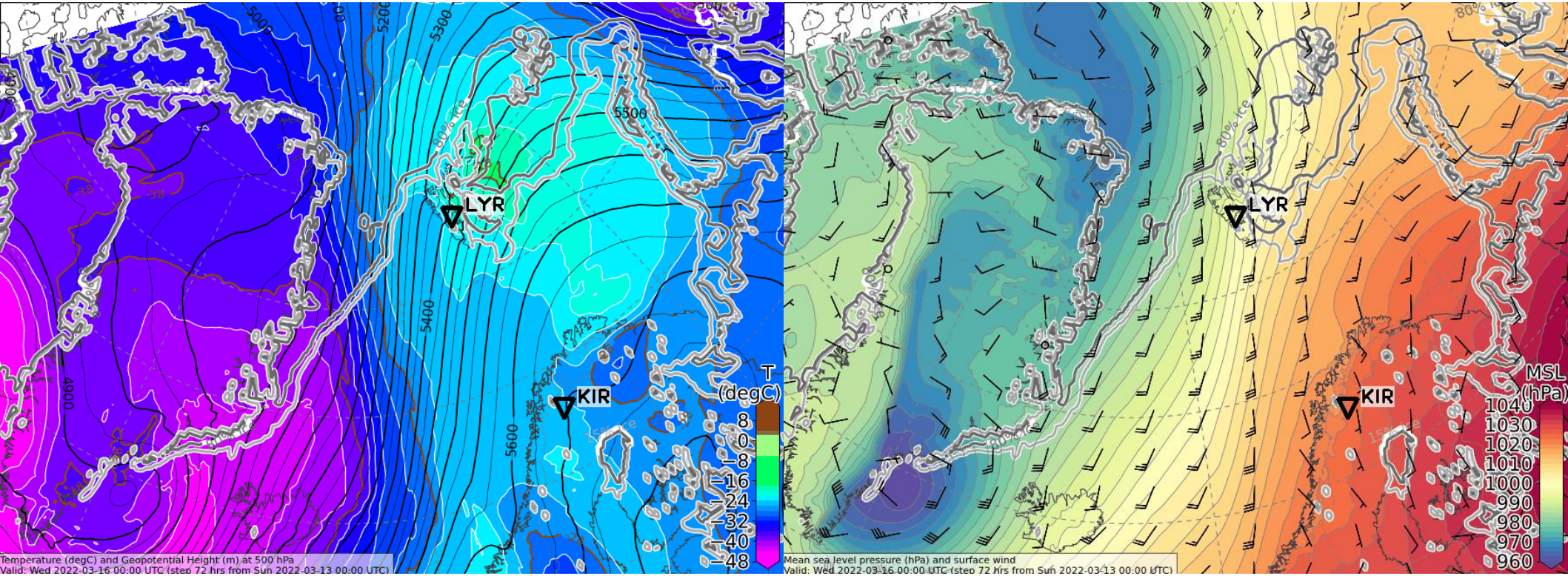
Sea level pressure



Wednesday, 2022-03-16 00 UTC (+72h)

500 hPa Geopot & T

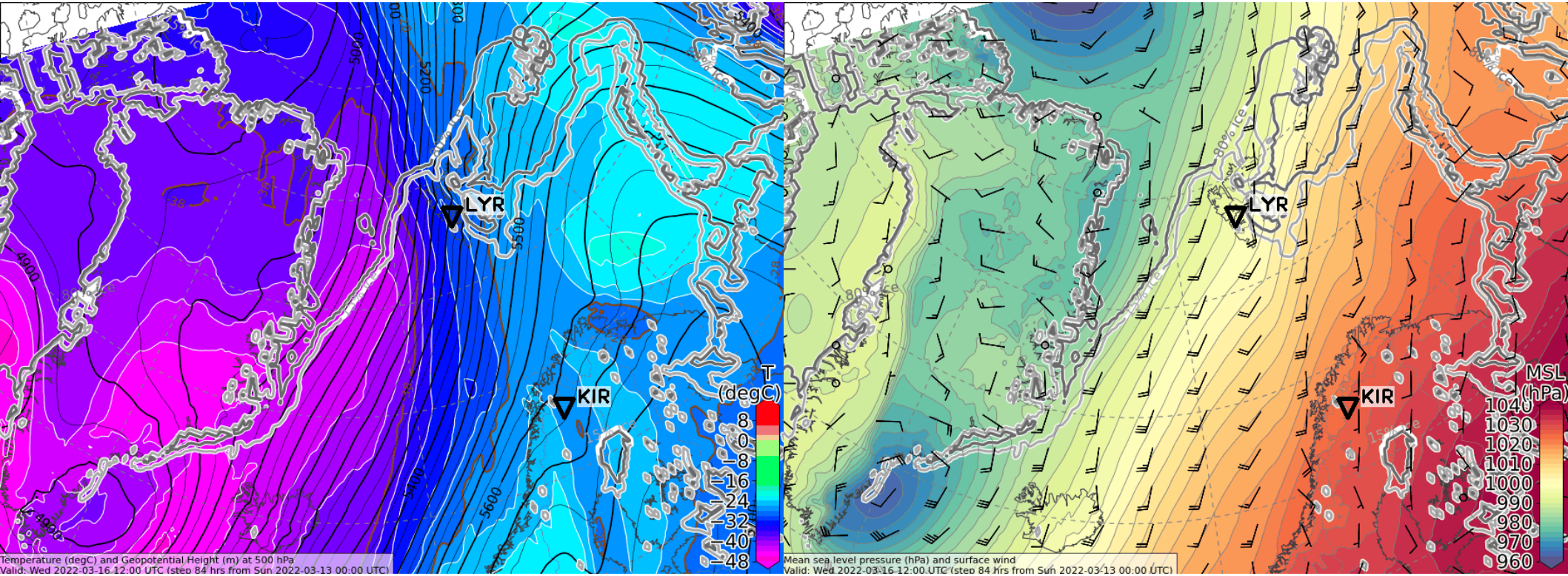
Sea level pressure



Wednesday, 2022-03-16 12 UTC (+84h)

500 hPa Geopot & T

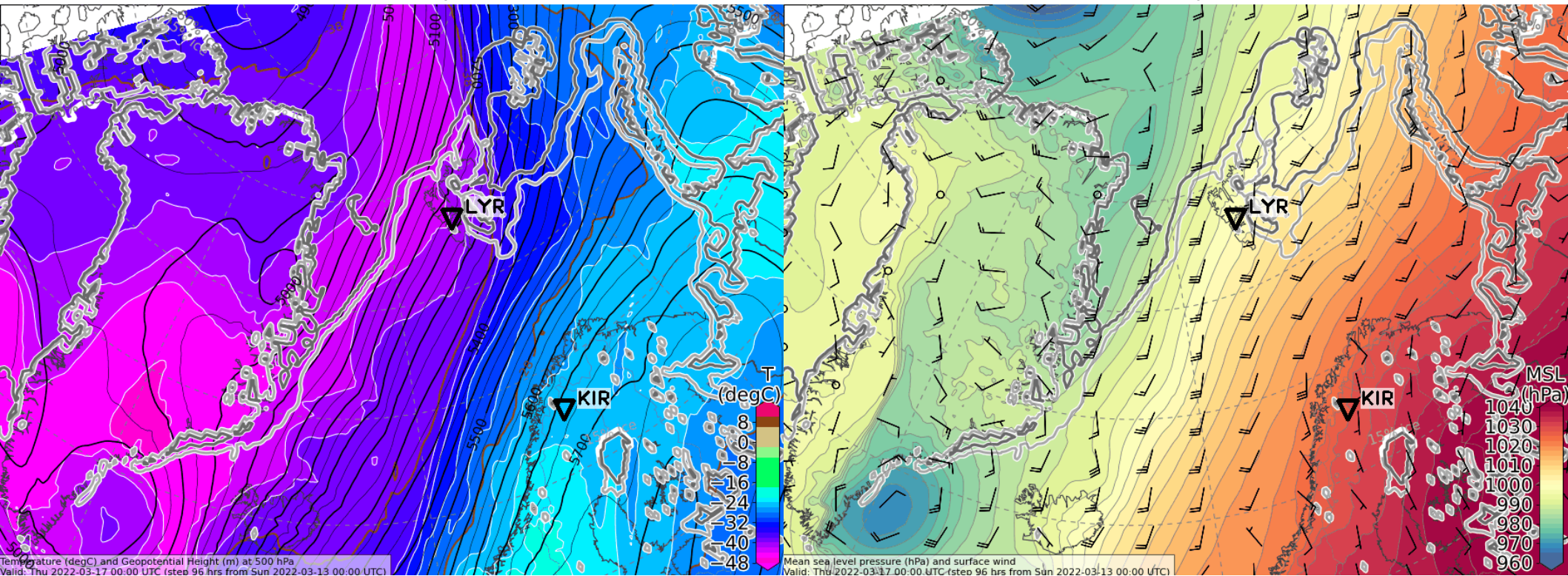
Sea level pressure



Thursday, 2022-03-17 00 UTC (+96h)

500 hPa Geopot & T

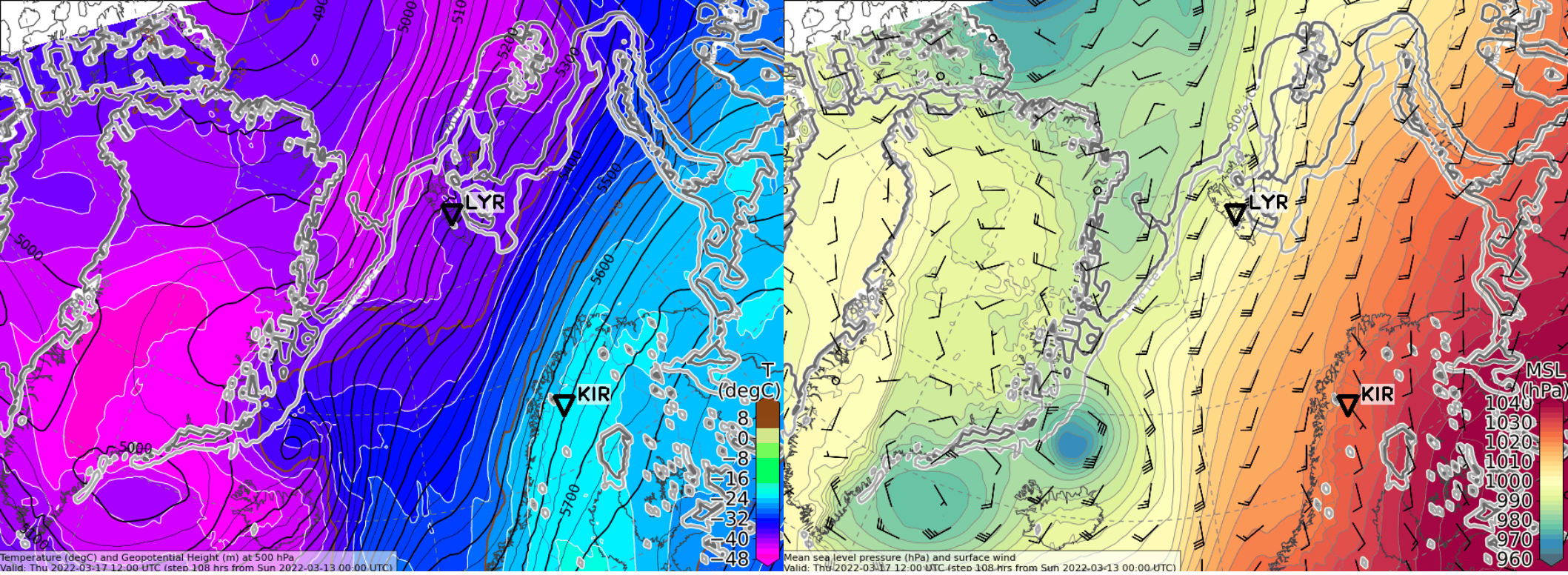
Sea level pressure



Thursday, 2022-03-17 12 UTC (+108h)

500 hPa Geopot & T

Sea level pressure



Surface wind development
2022-03-13 00 UTC: 36 – 108h
ECMWF

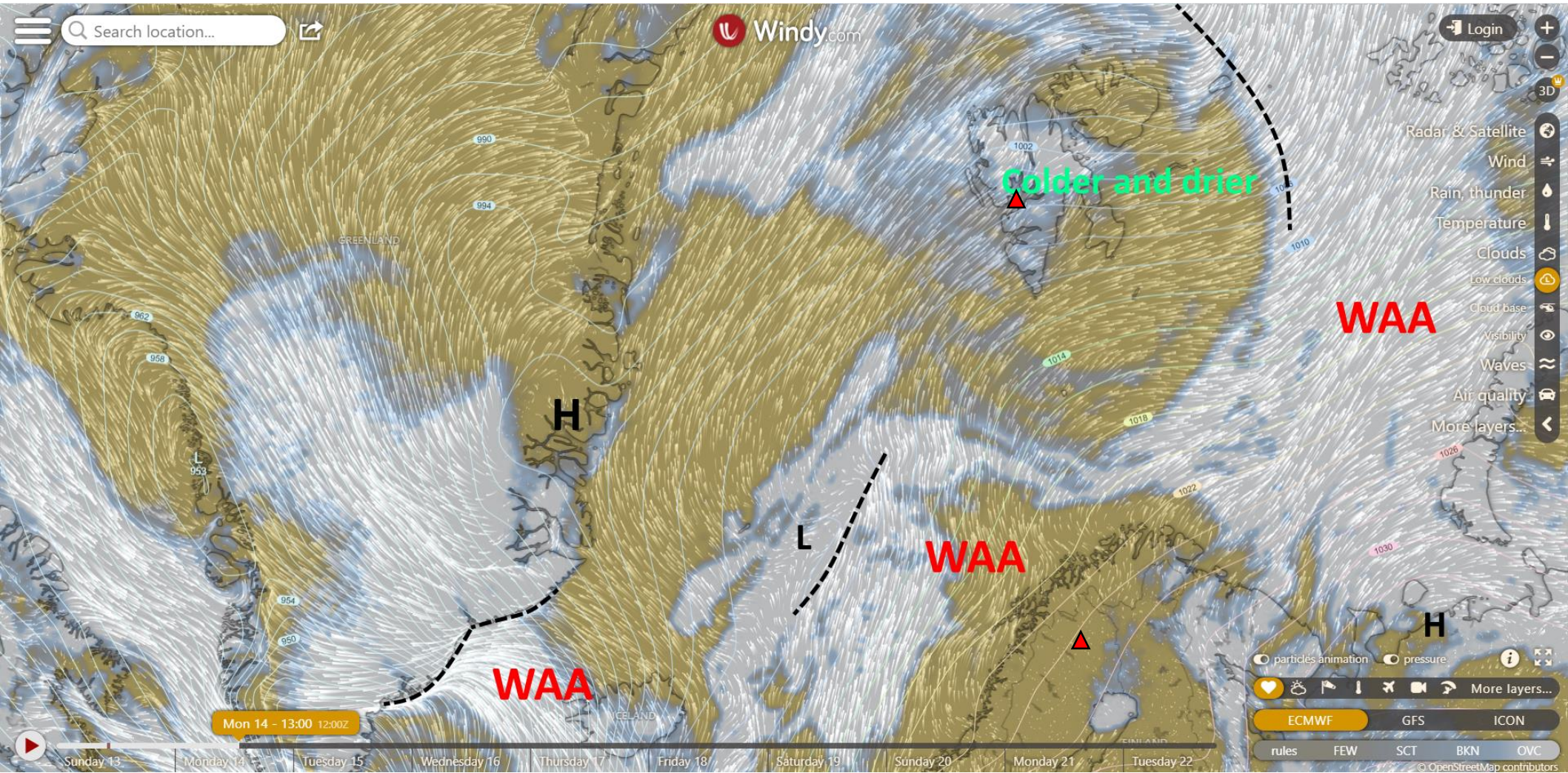
L: Low

H: High

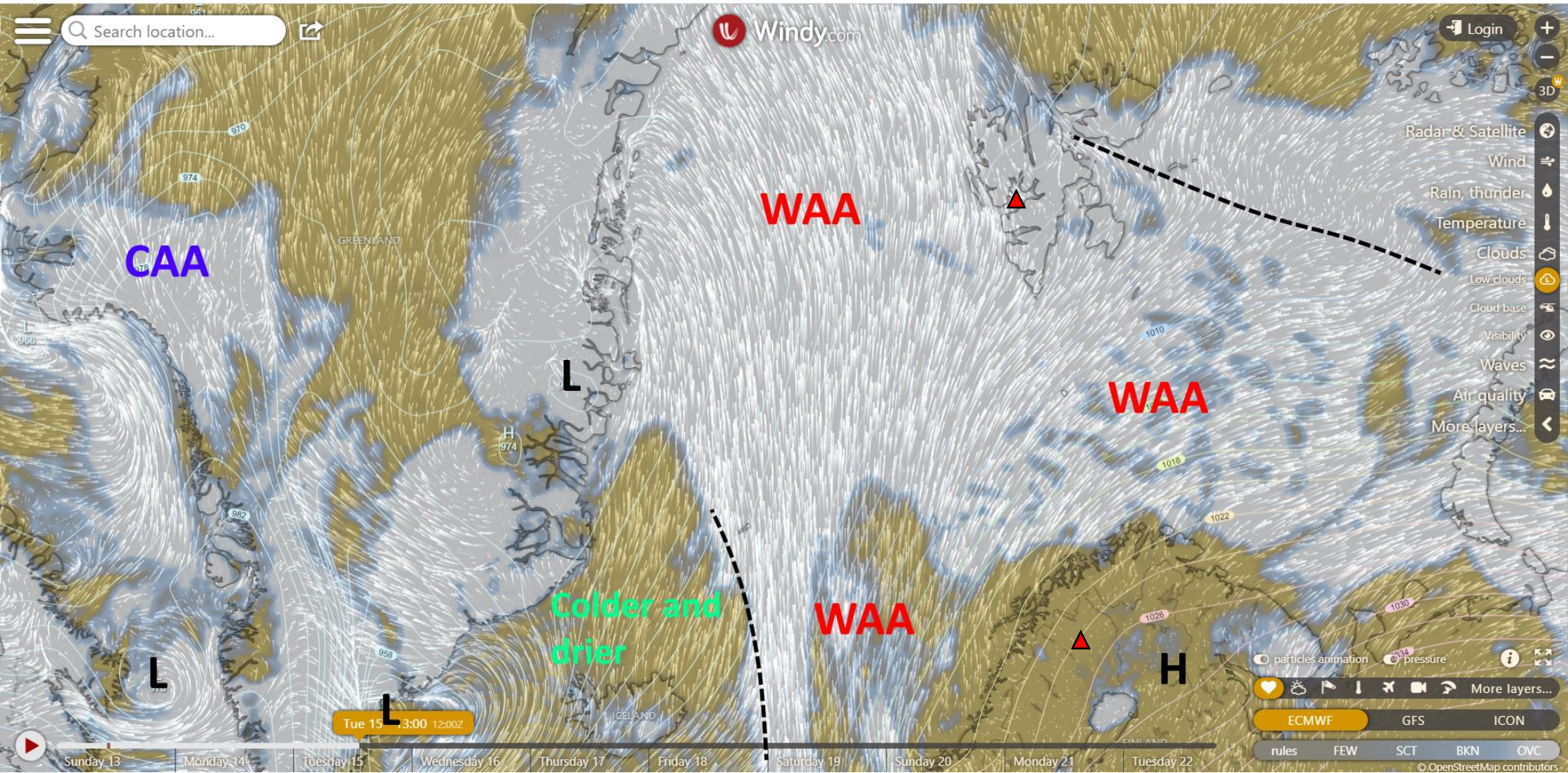
CAA: Cold Air Advection

WAA: Warm Air Advection

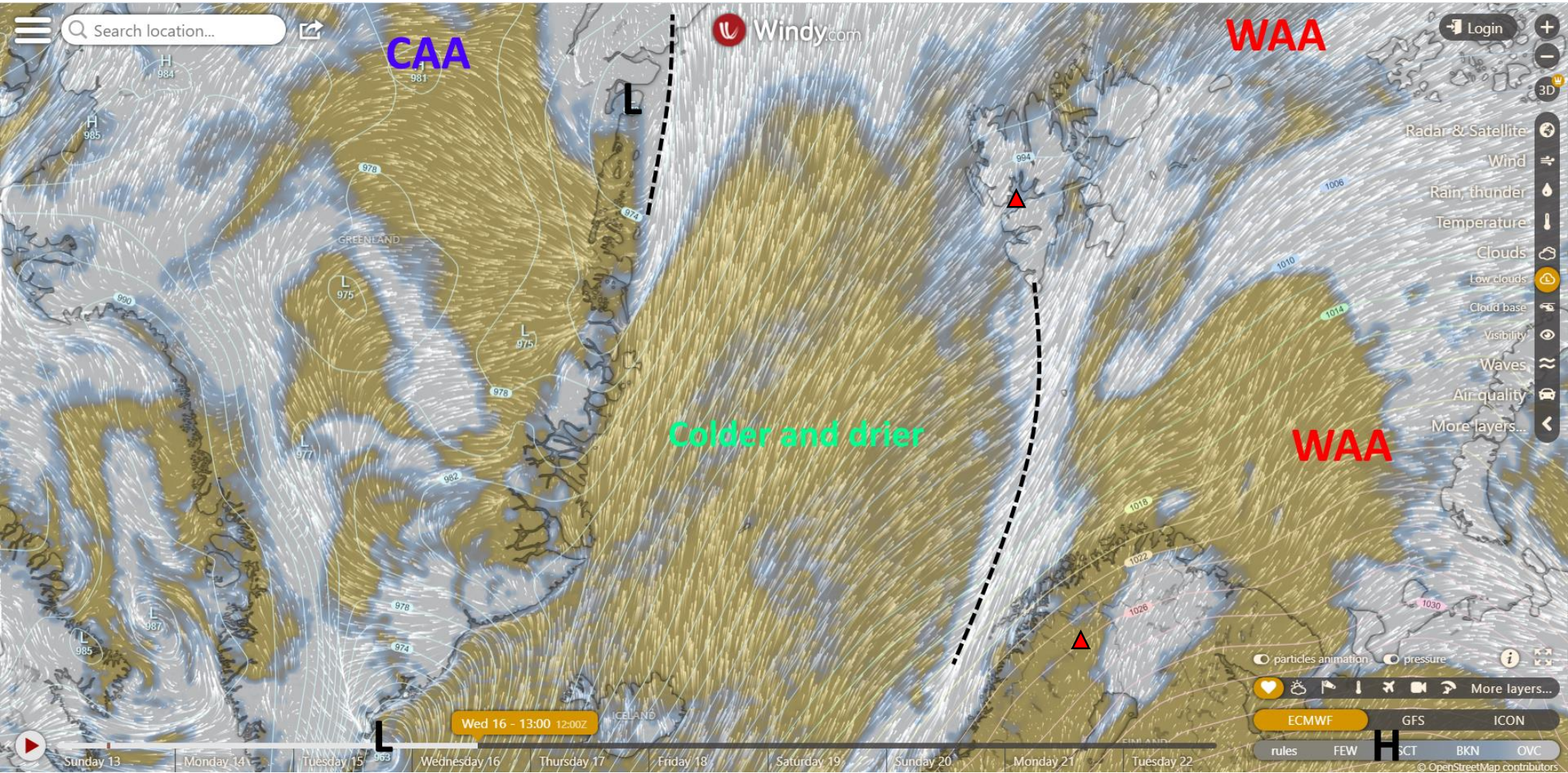
Monday, 2022-03-14 12 UTC (+36h)



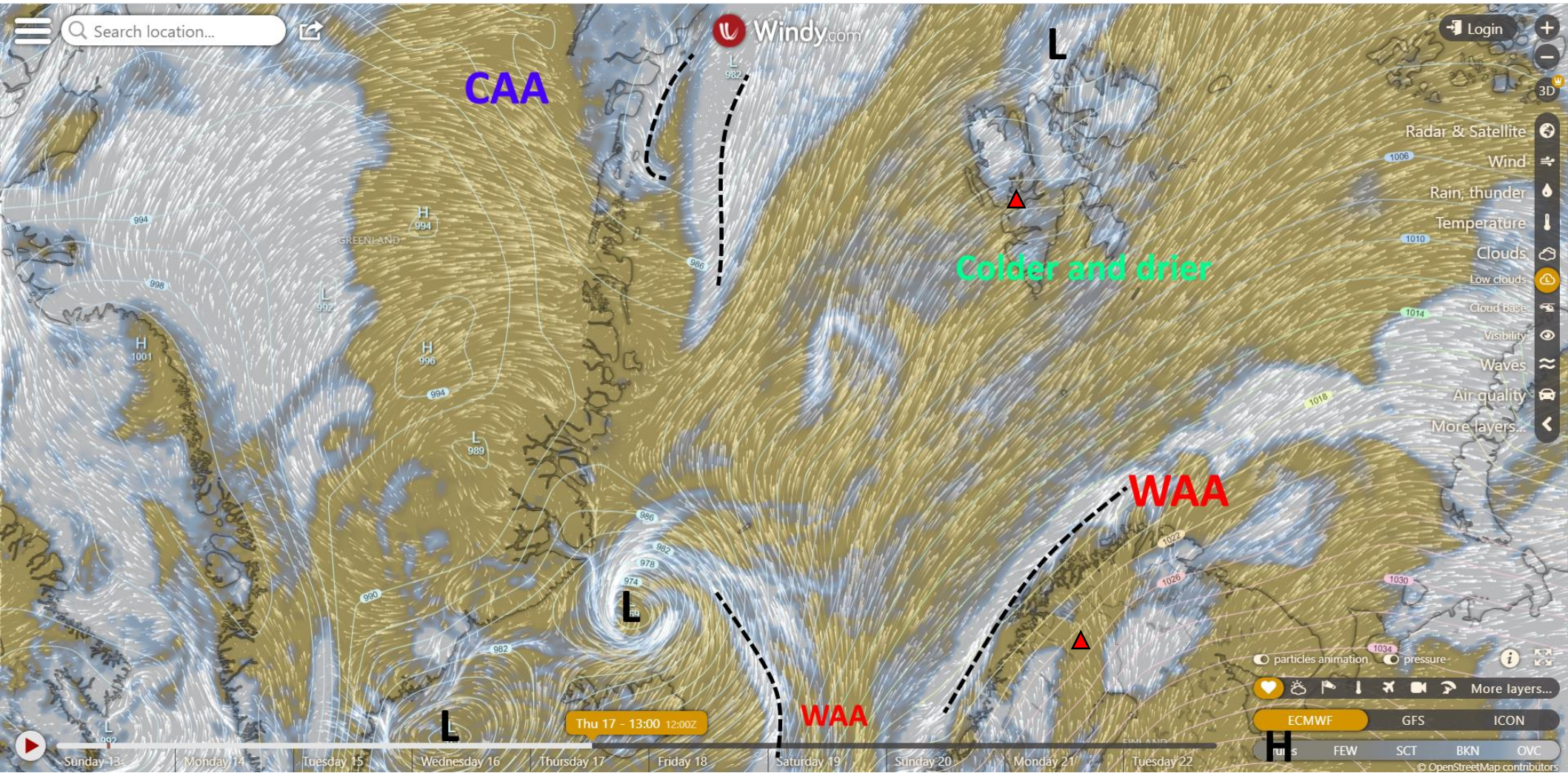
Tuesday, 2022-03-15 12 UTC (+60h)



Wednesday, 2022-03-16 12 UTC (+84h)



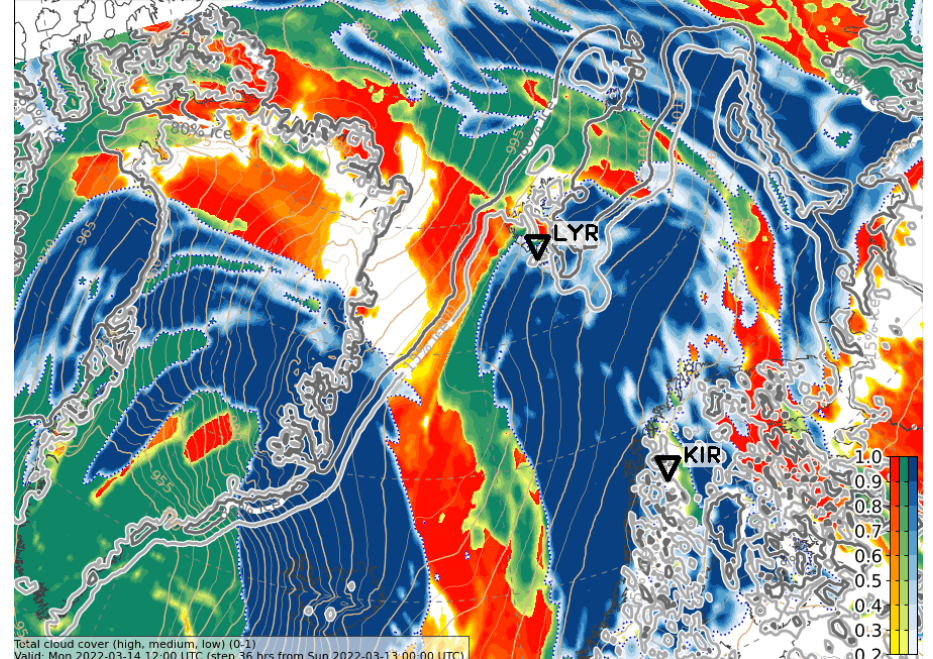
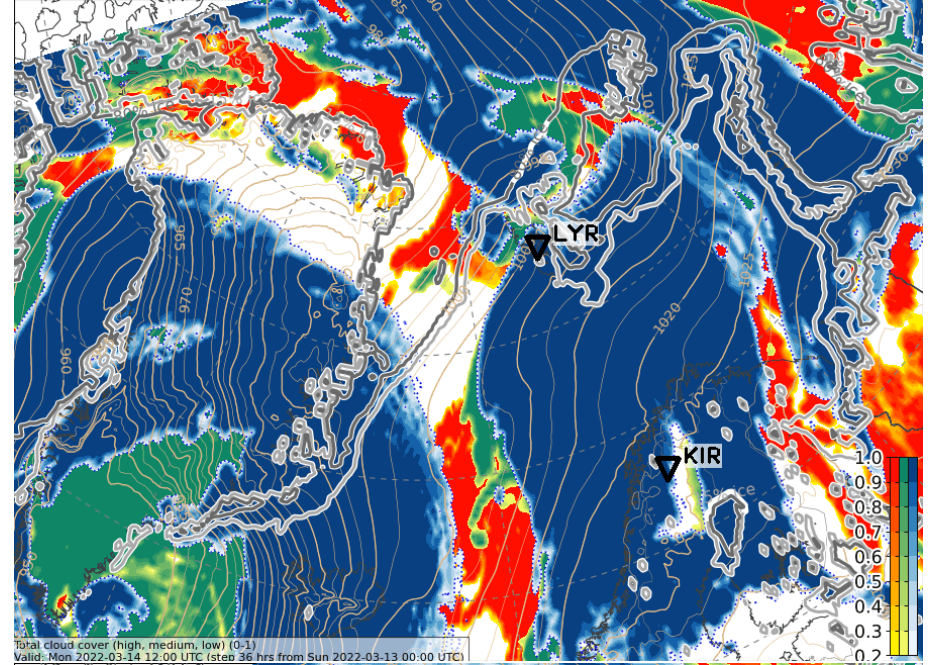
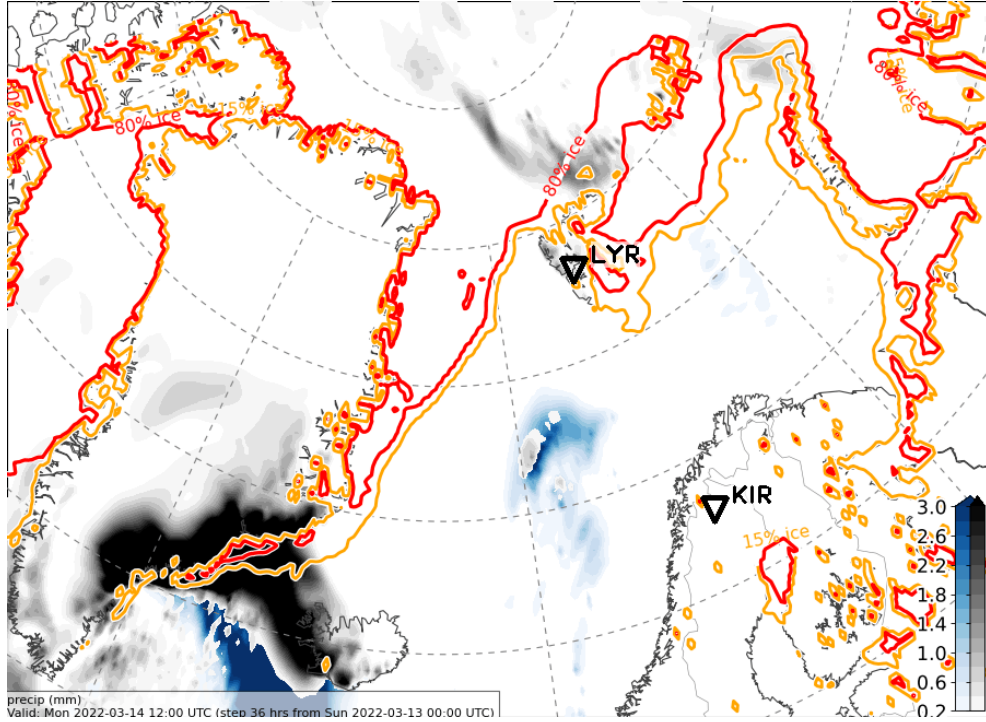
Thursday, 2022-03-17 12 UTC (+108h)



Cloud cover & precip development
2022-03-13 00 UTC: 36 – 108h
ECMWF + ICON

Mon, 2022-03-14 12 UTC (+36h) ECMWF

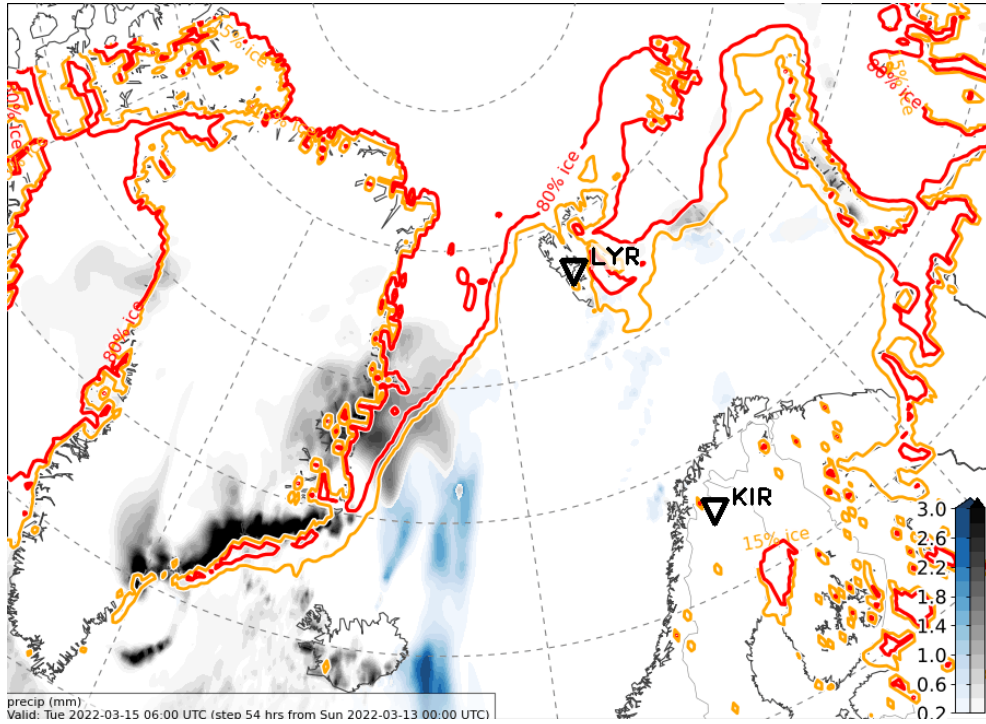
2h precip



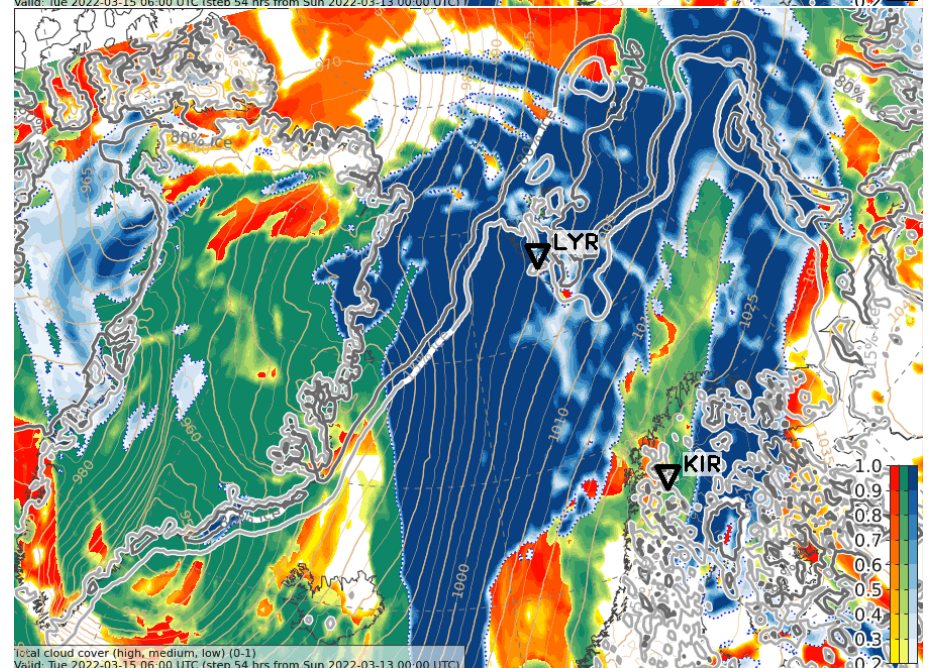
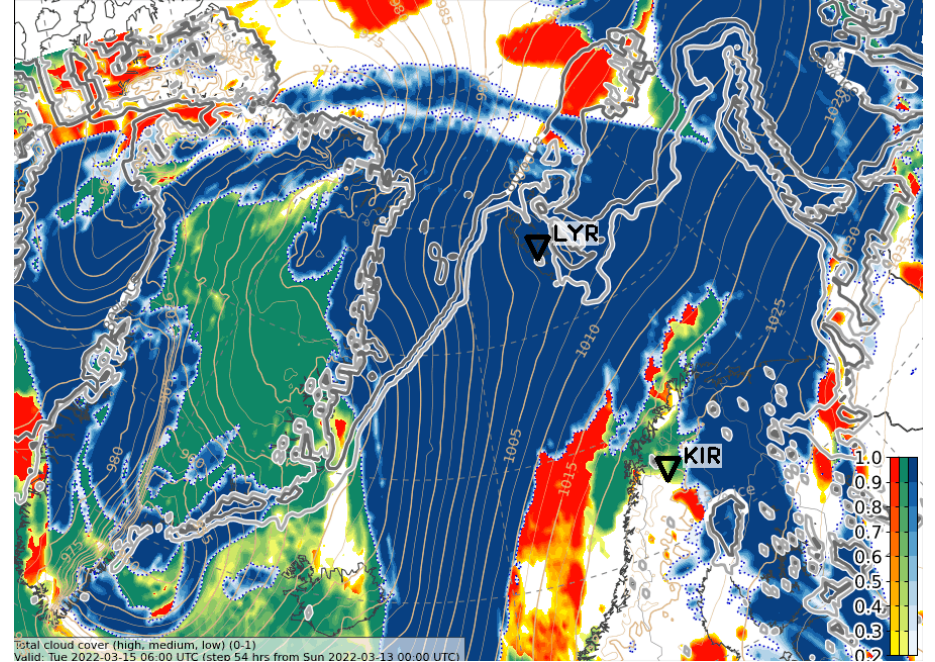
ICON

Tue, 2022-03-15 06 UTC (+54h) ECMWF

2h precip

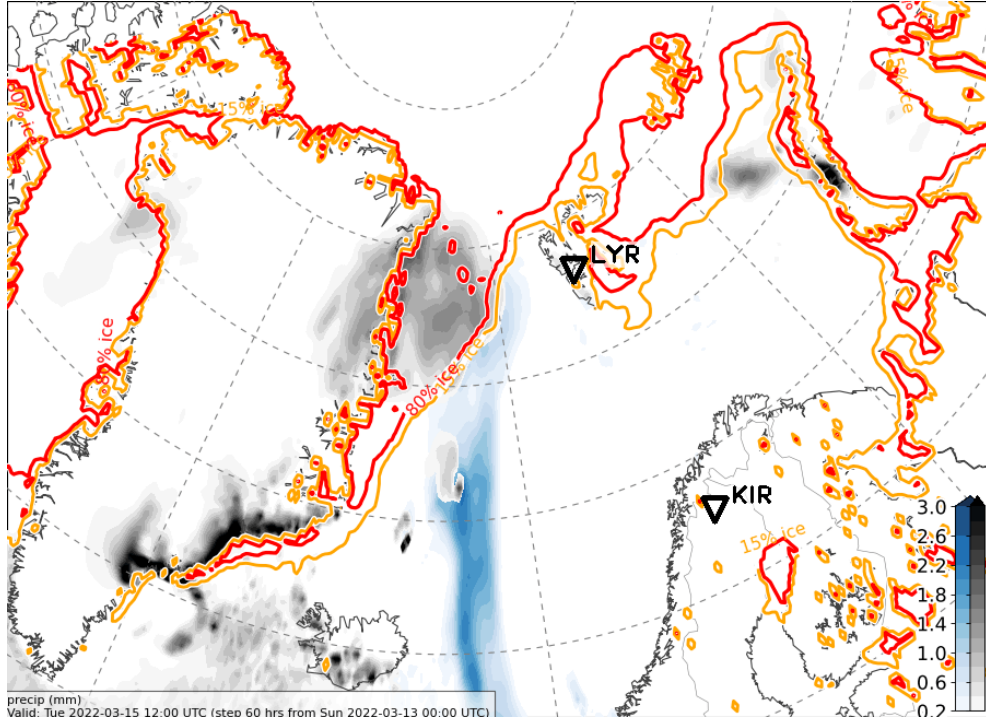


ICON

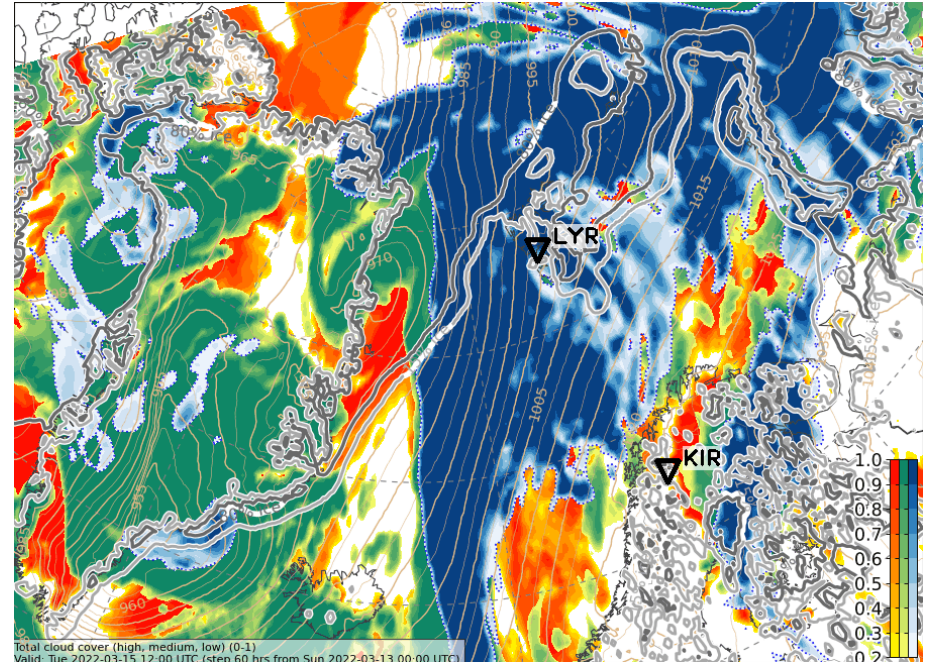
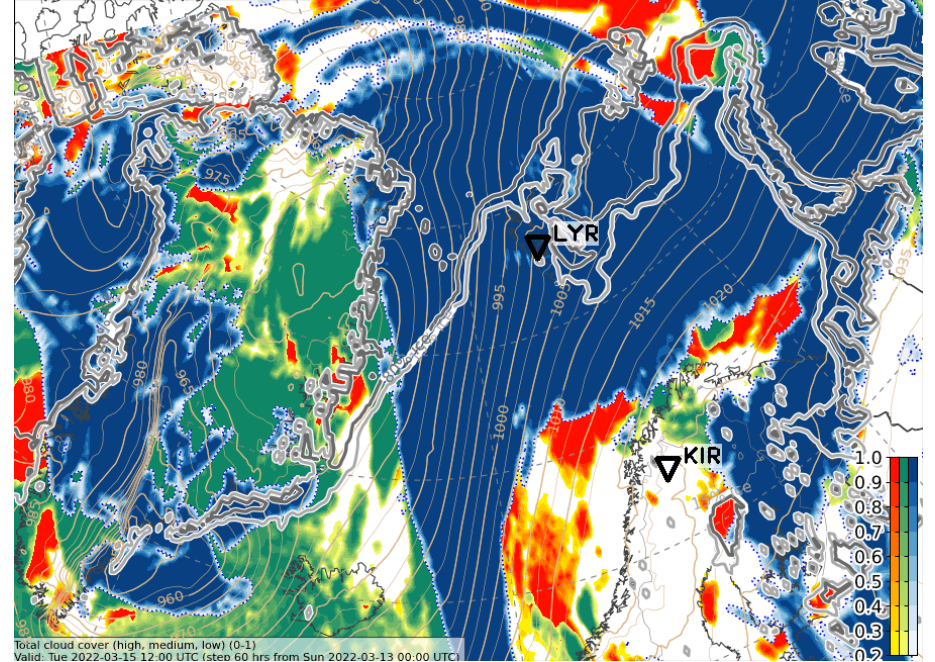


Tue, 2022-03-15 12 UTC (+60h) ECMWF

2h precip

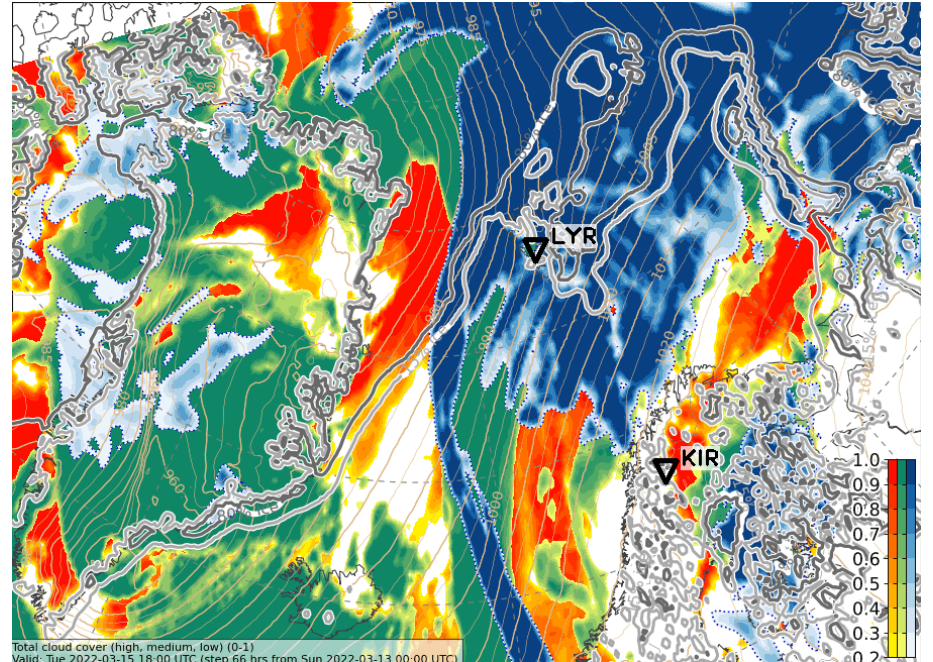
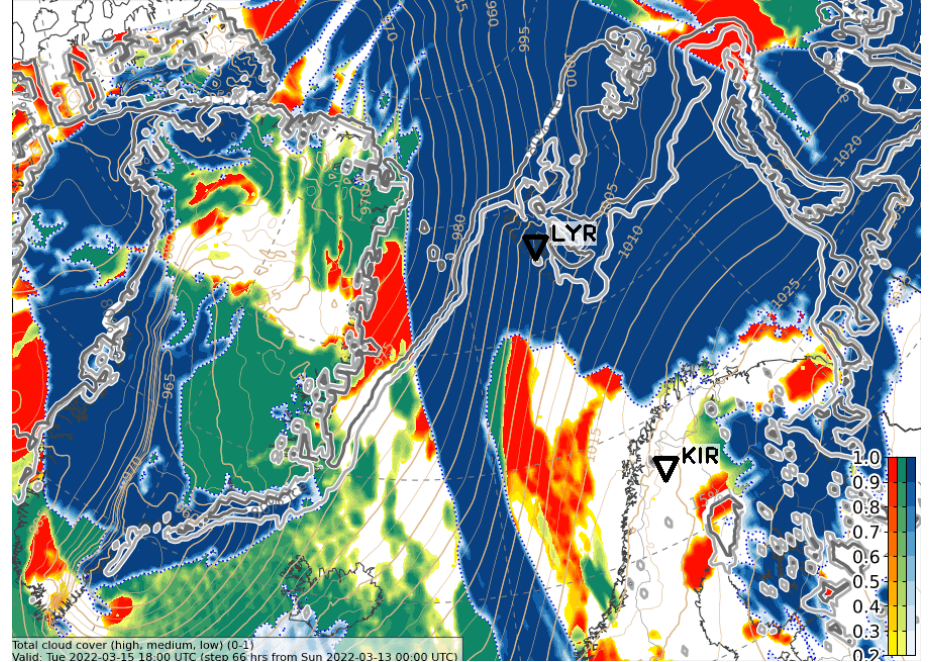
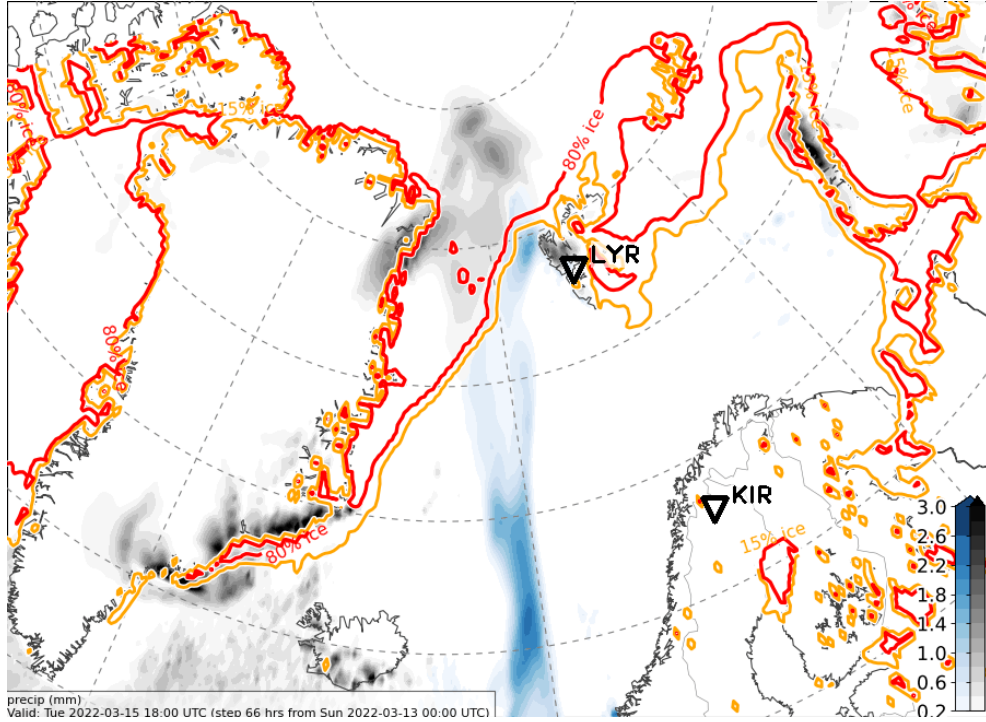


ICON



Tue, 2022-03-15 18 UTC (+66h) ECMWF

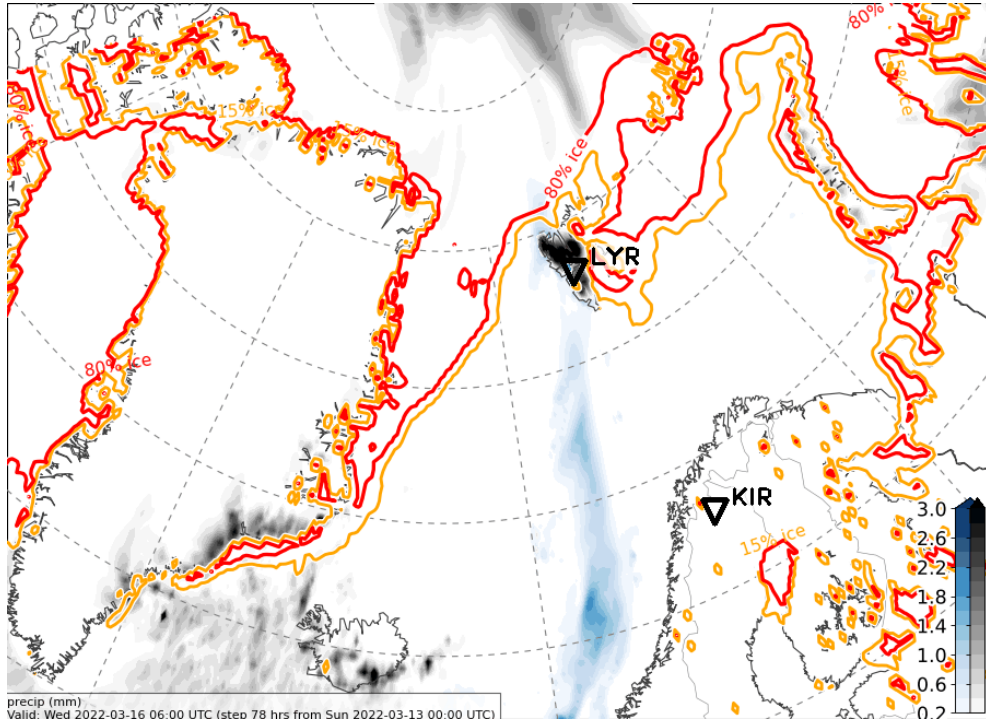
2h precip



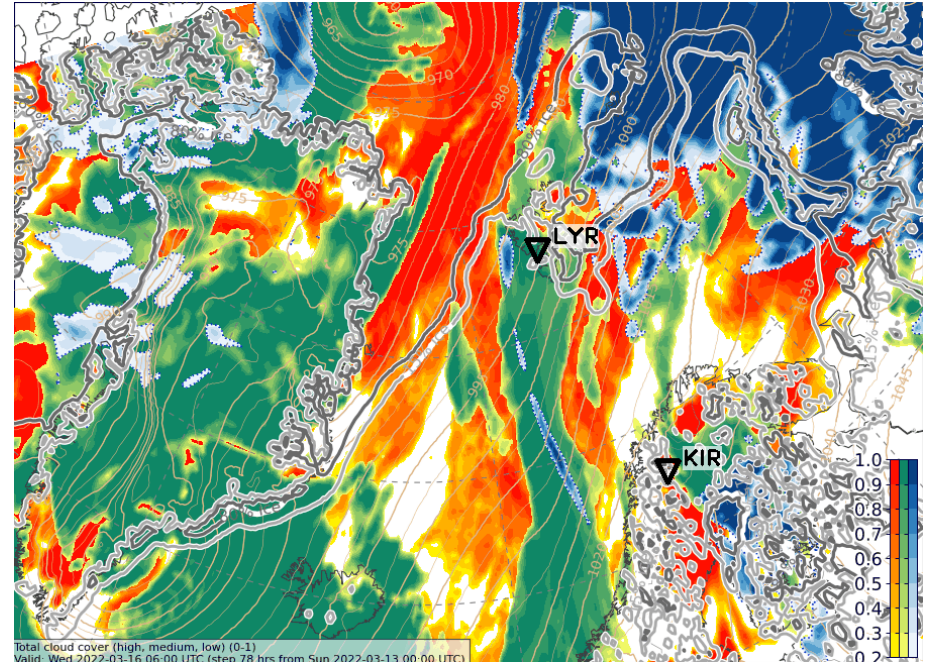
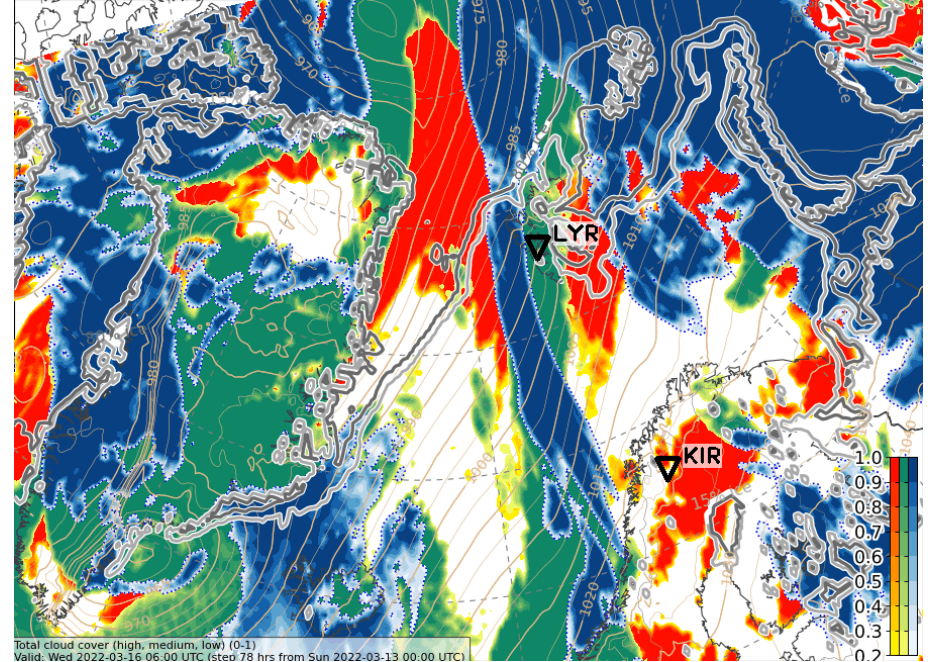
ICON

Wed, 2022-03-16 06 UTC (+78h) ECMWF

2h precip

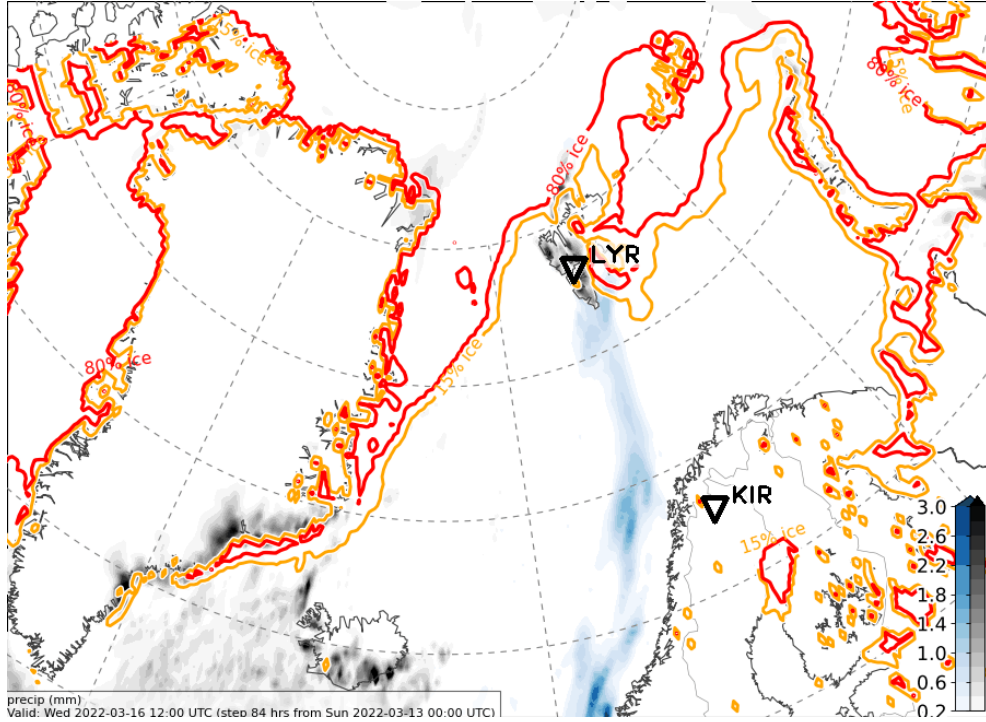


ICON

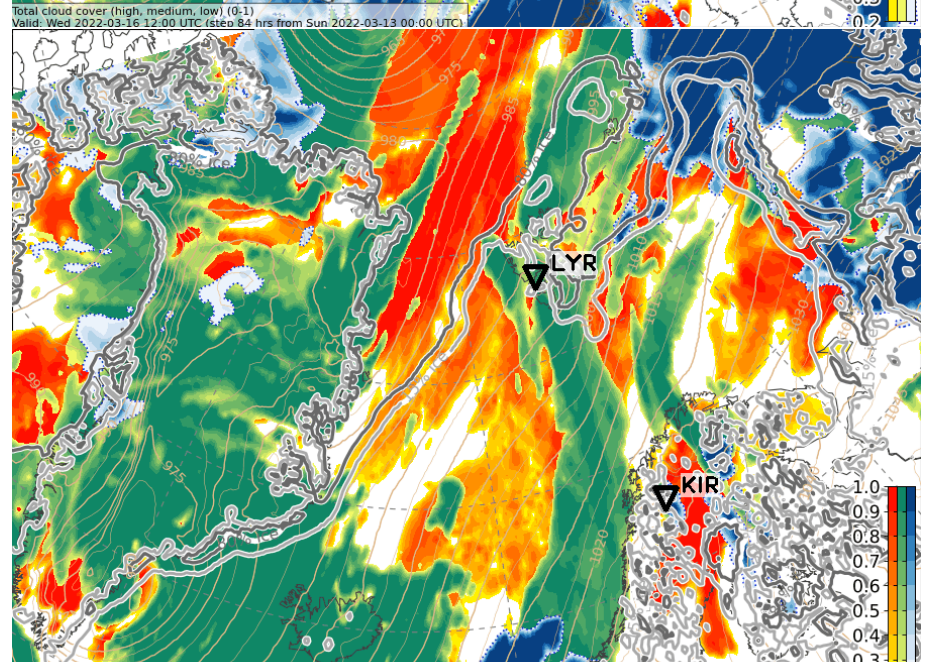
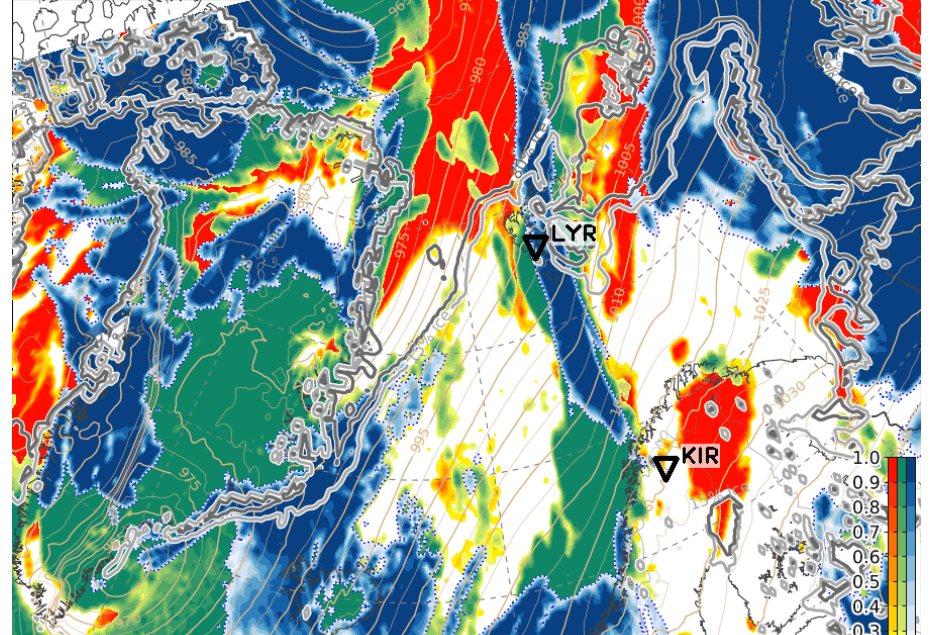


Wed, 2022-03-16 12 UTC (+84h) ECMWF

2h precip

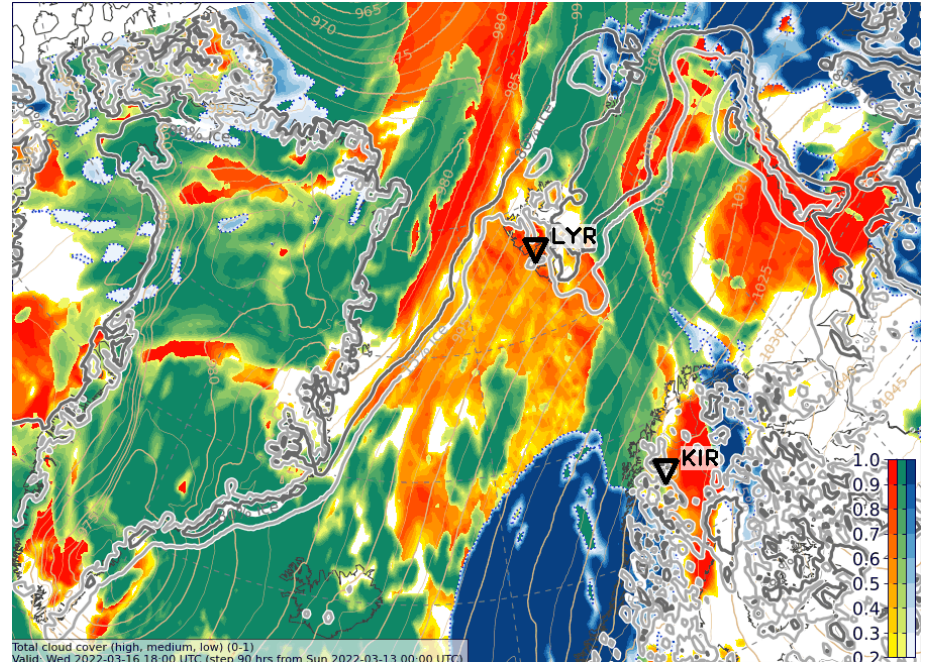
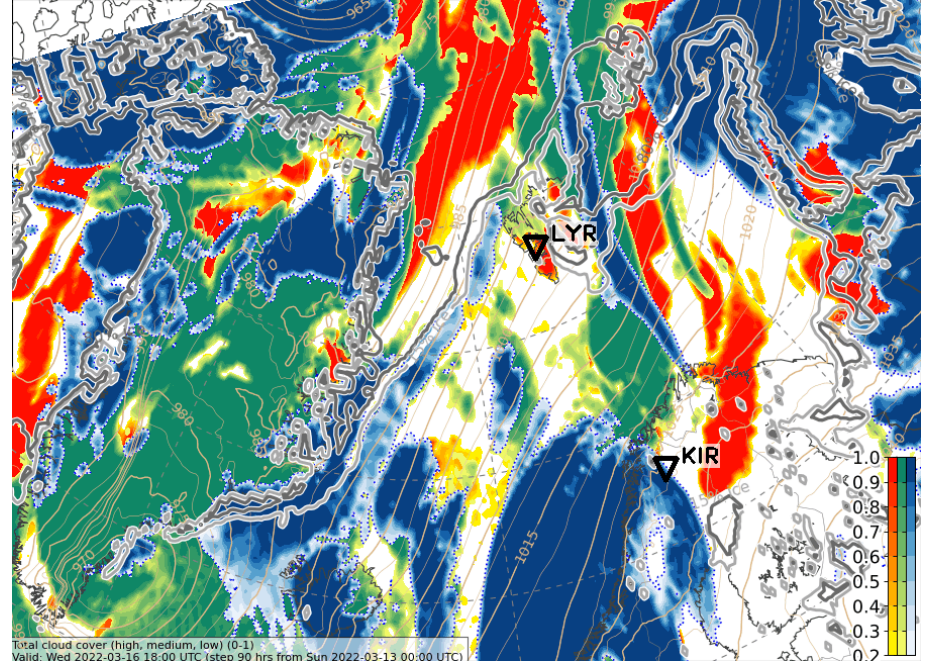
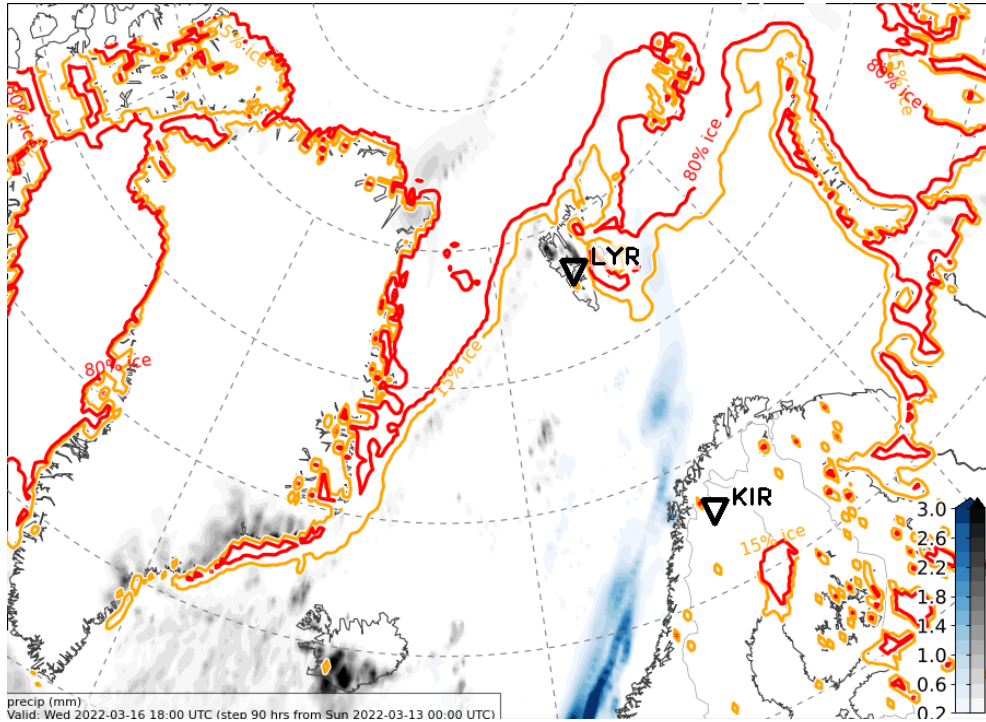


ICON



Wed, 2022-03-16 18 UTC (+90h) ECMWF

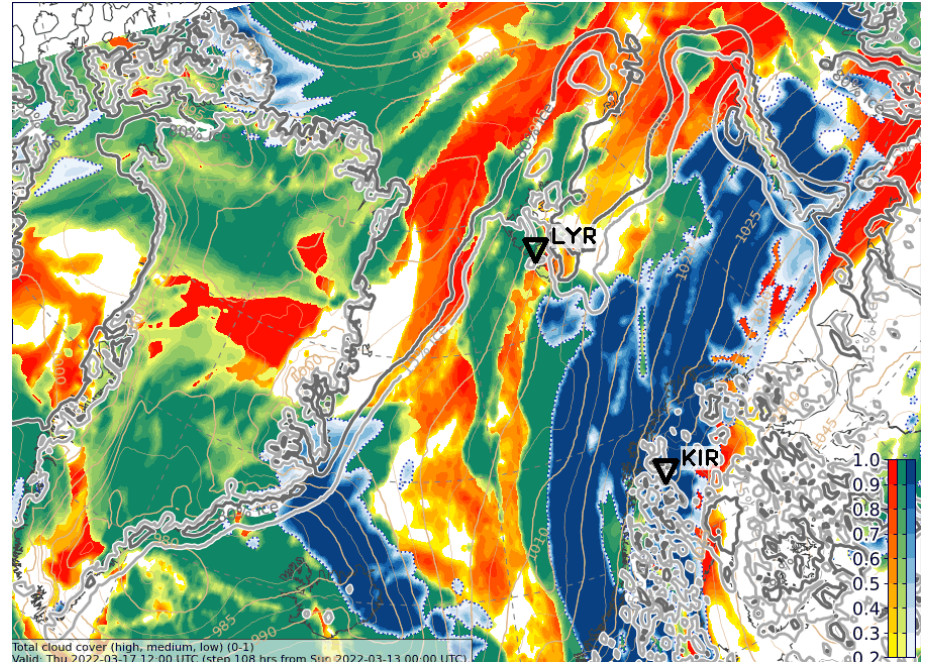
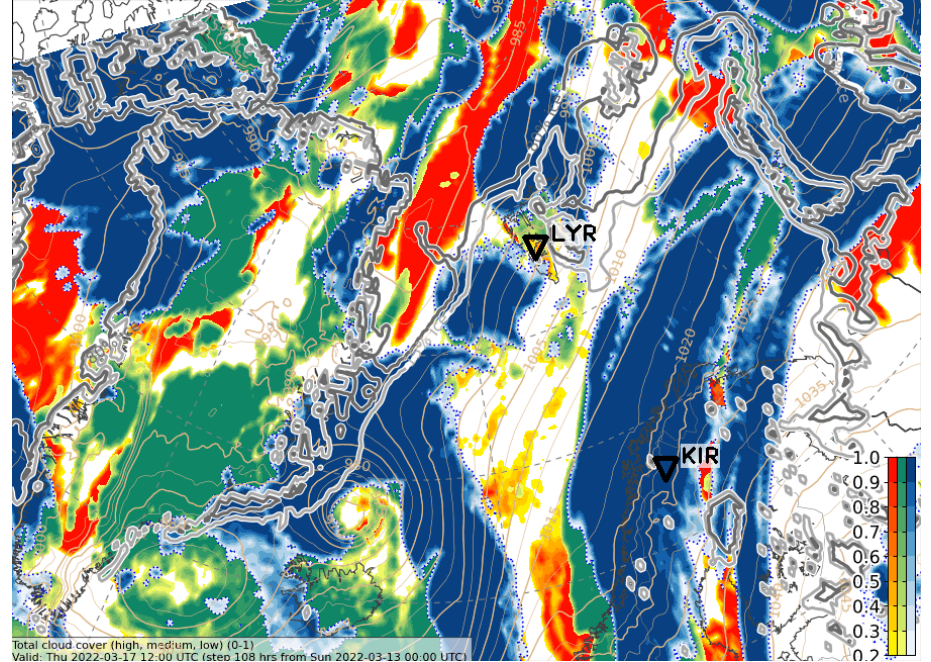
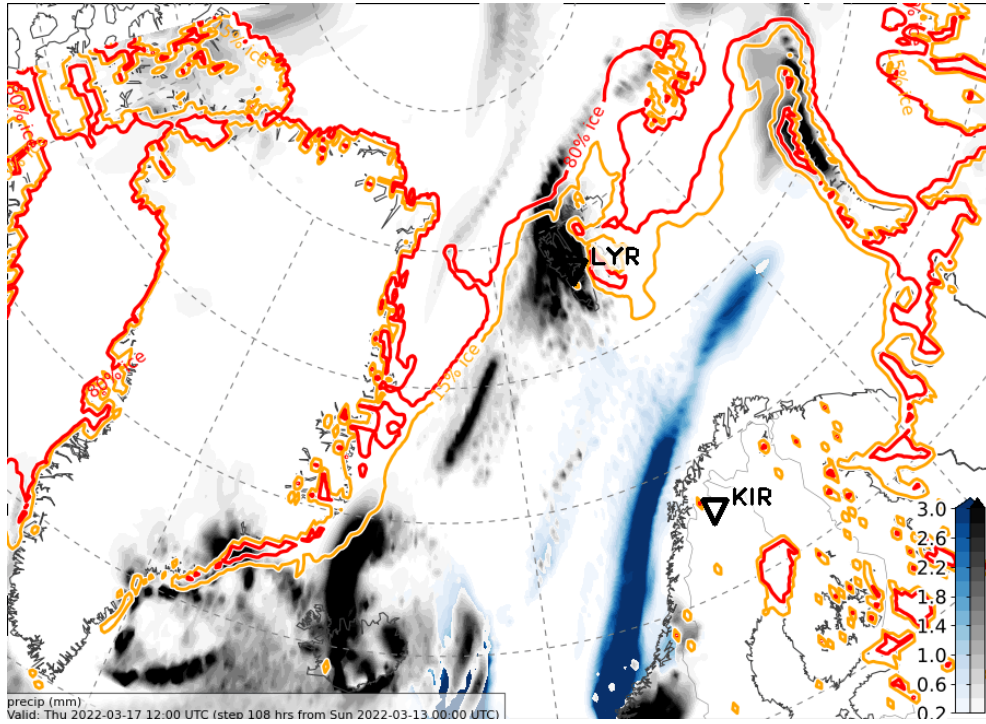
2h precip



ICON

Thu, 2022-03-17 12 UTC (+108h) ECMWF

6h precip

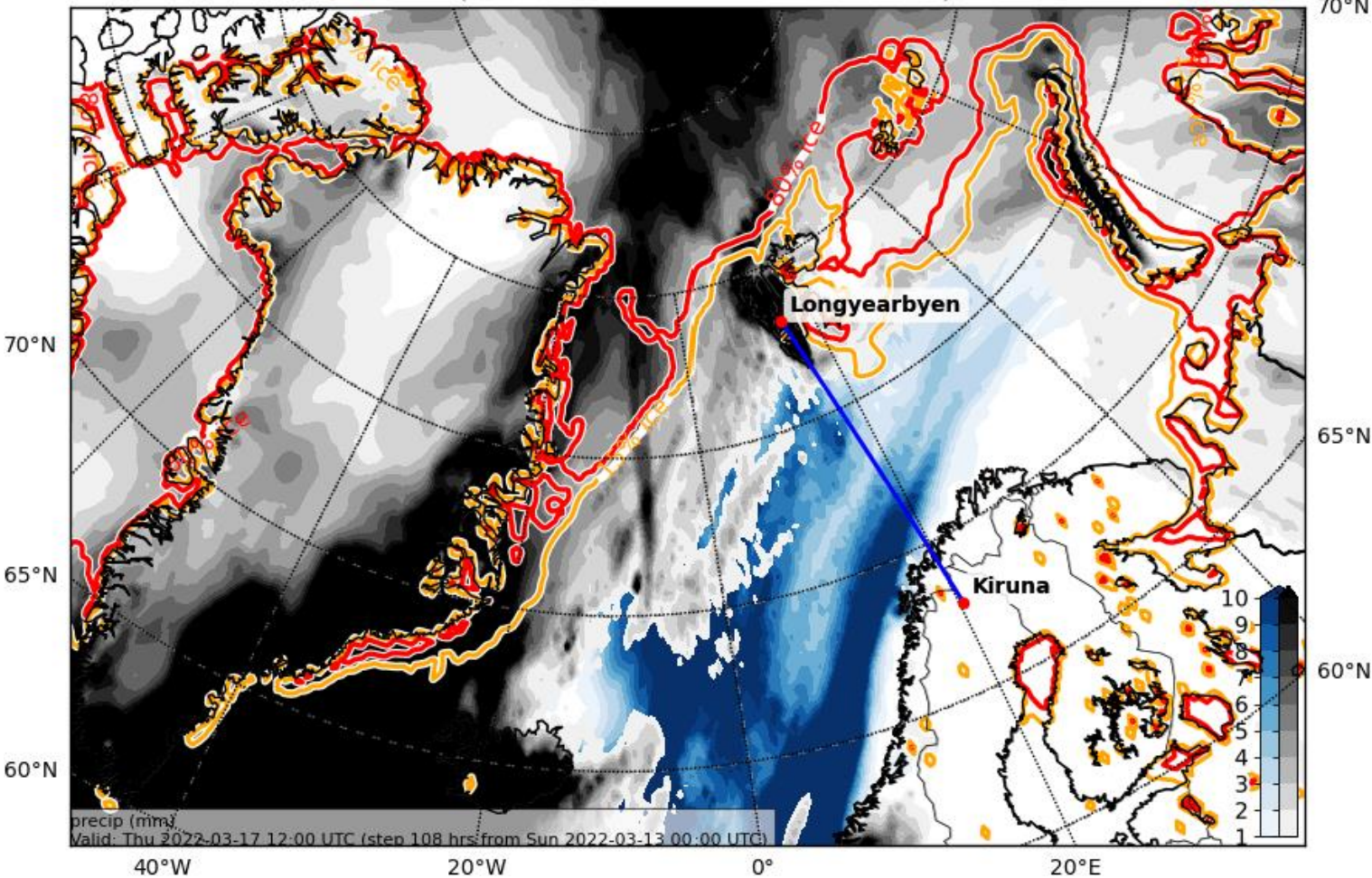


Low Level Clouds

Thu, 2022-03-17 12 UTC (+108h) ECMWF

ACC. precip

Precipitation, accumulated (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-17T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)



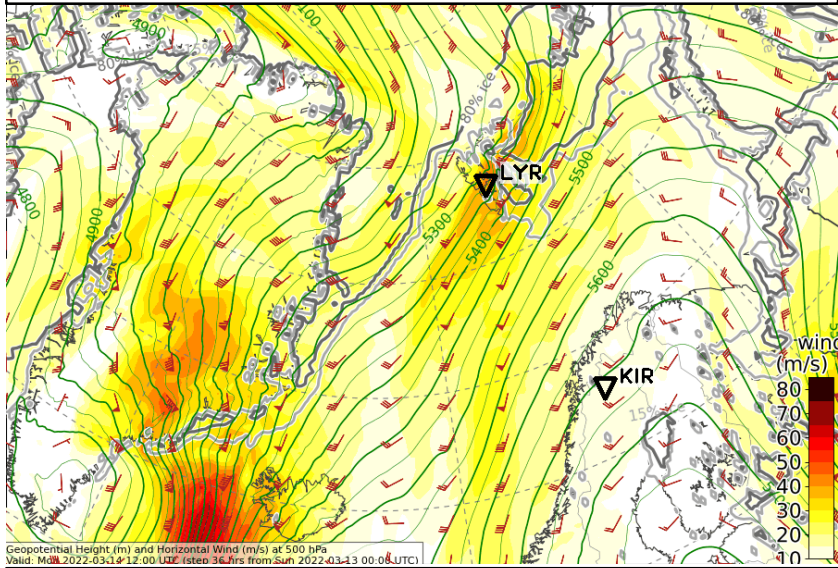
Extra variables

2022-03-13 00 UTC: 36 – 108h

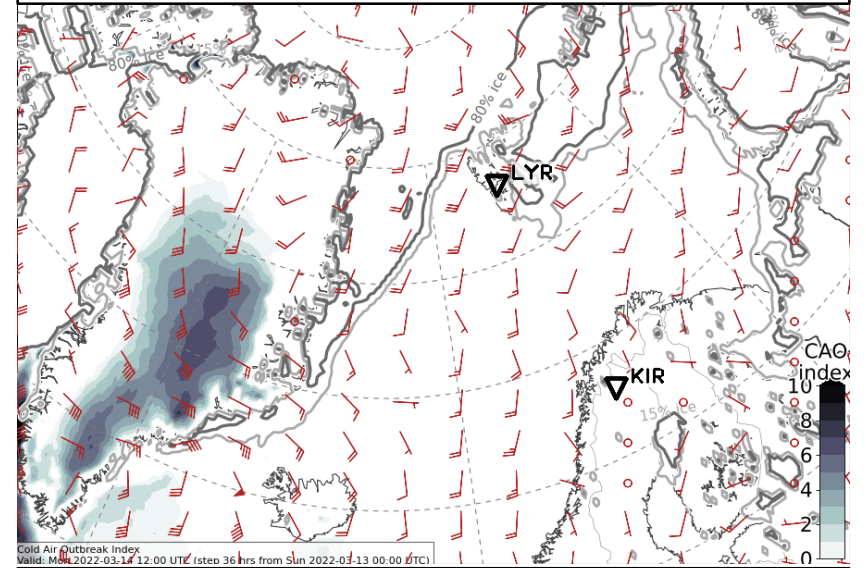
500 hPa wind & 850hPa θ_e & CAO & IVT

Mon, 2022-03-14 12 UTC (+36h)

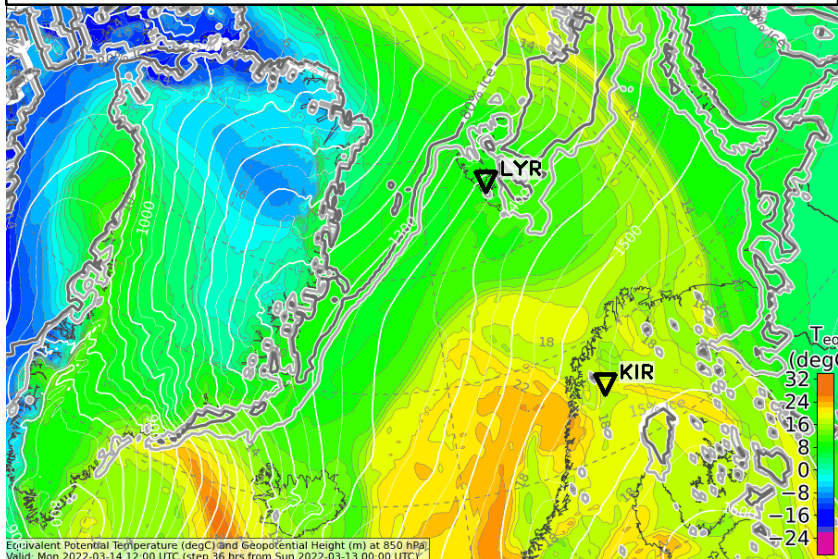
500 hPa Geopot. and Wind



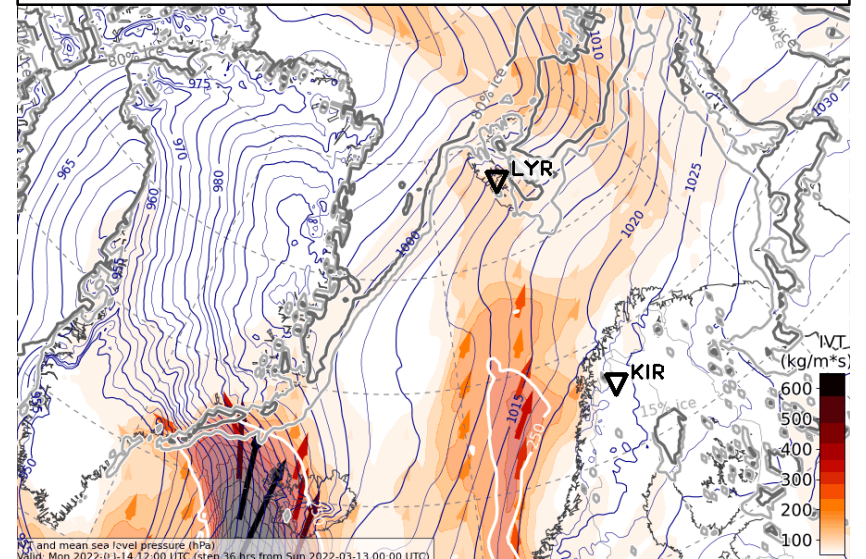
CAO Index



850 hPa Equiv. pot. temperature

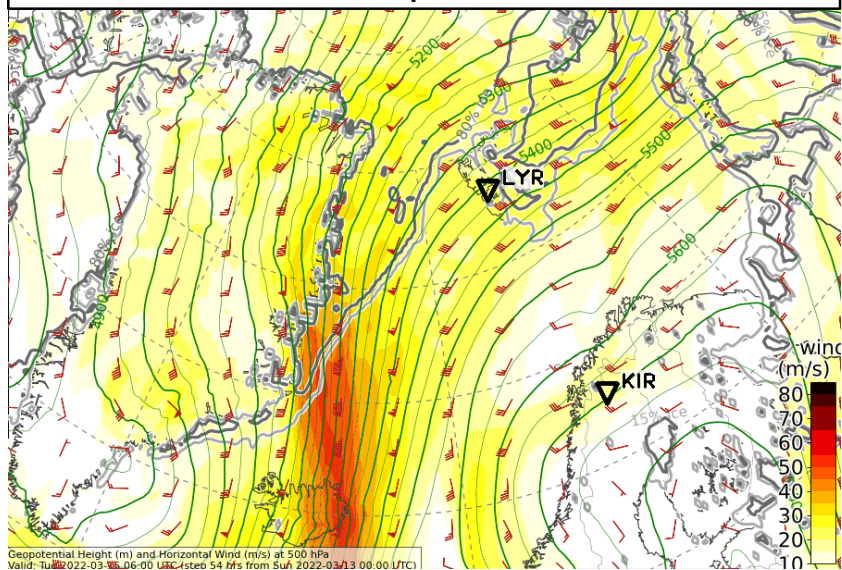


Integrated water vapour transport

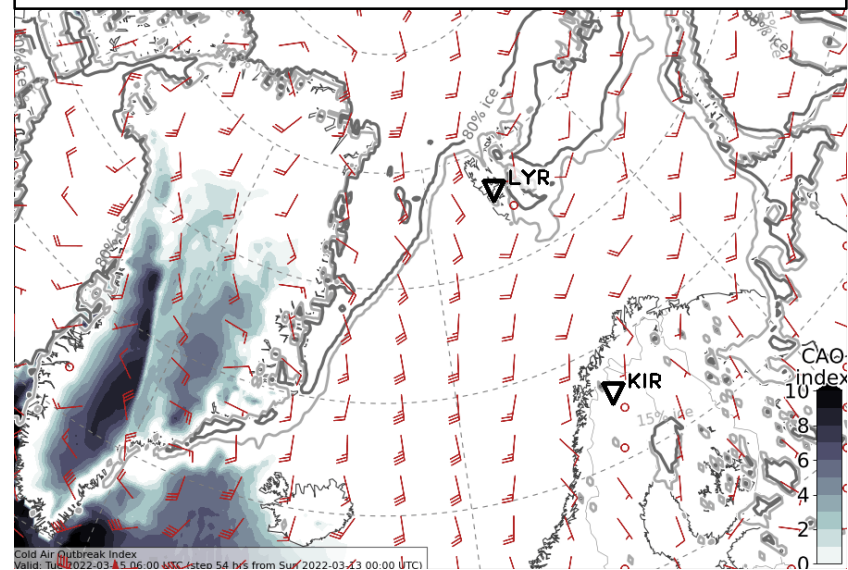


Tue, 2022-03-15 06 UTC (+54h)

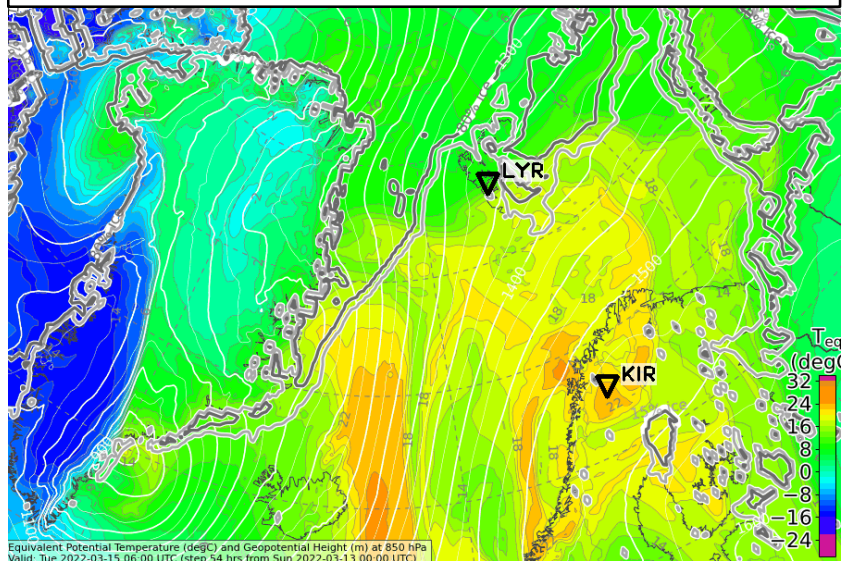
500 hPa Geopot. and Wind



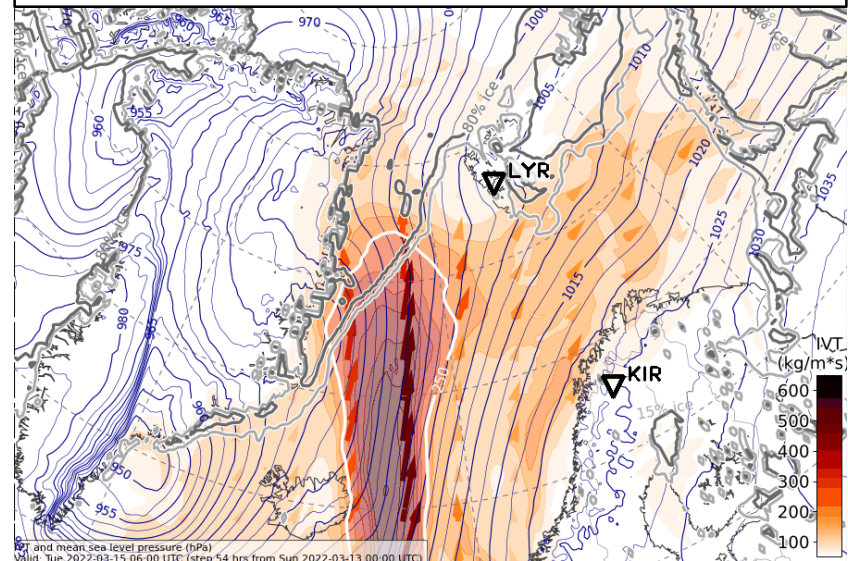
CAO Index



850 hPa Equiv. pot. temperature

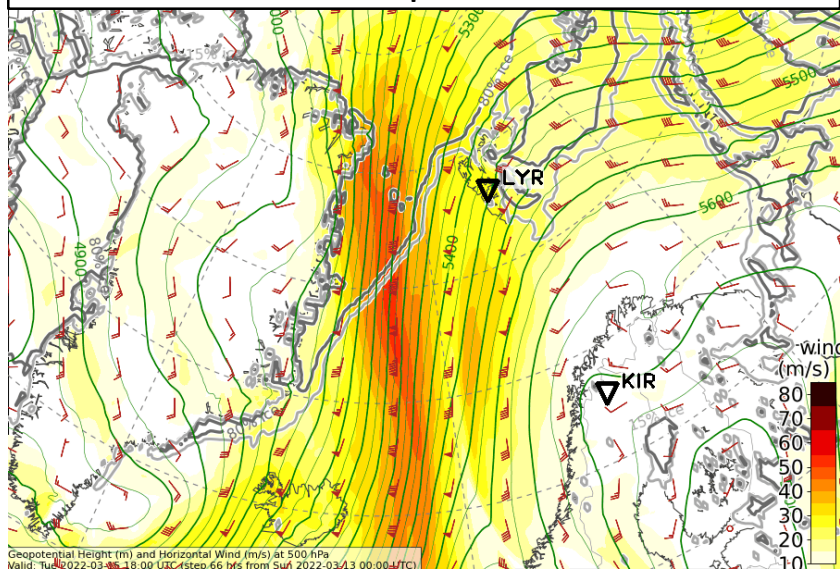


Integrated water vapour transport

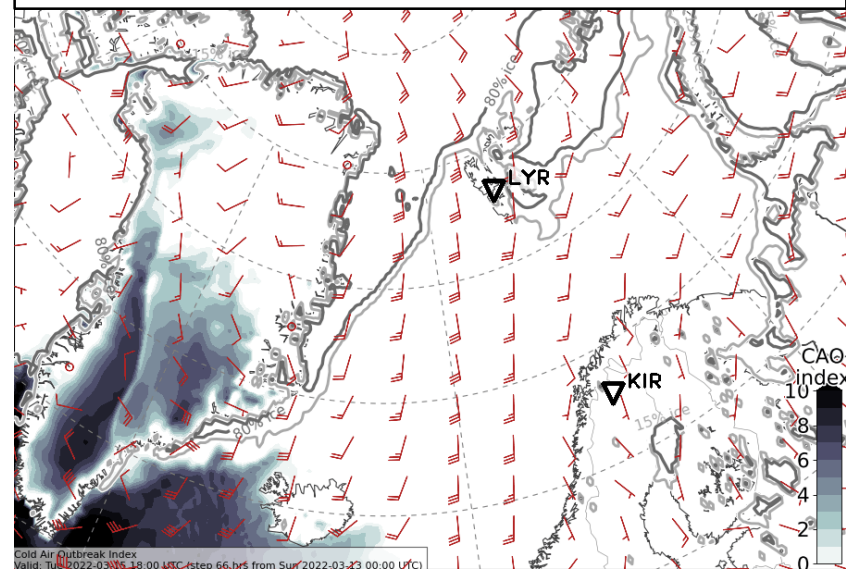


Tue, 2022-03-15 18 UTC (+66h)

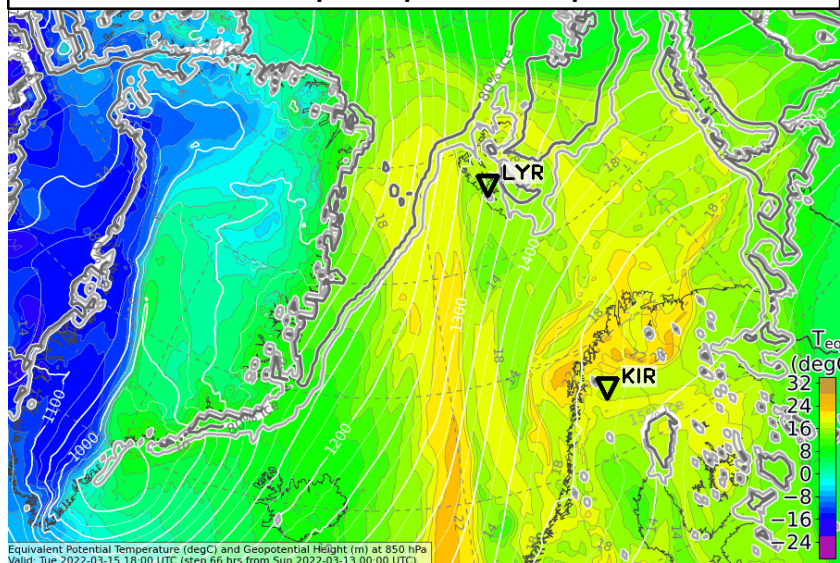
500 hPa Geopot. and Wind



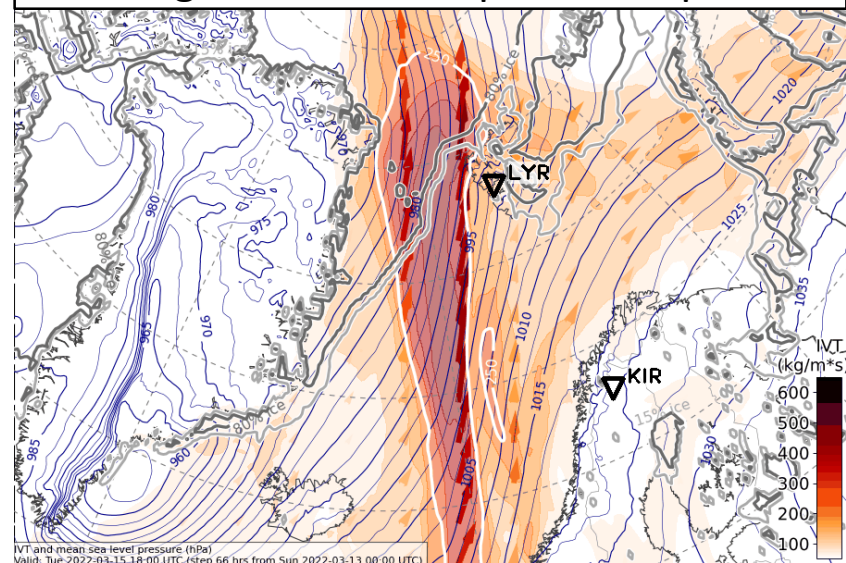
CAO Index



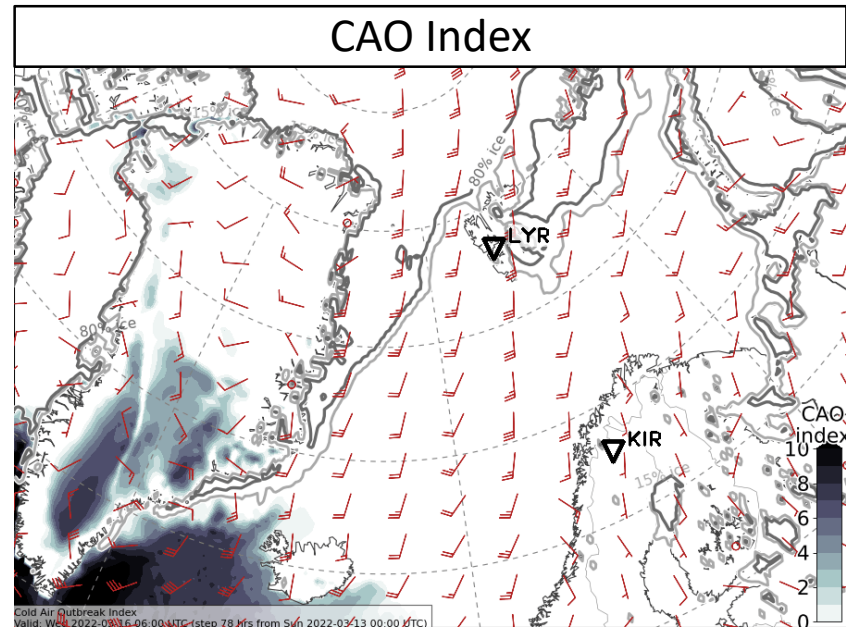
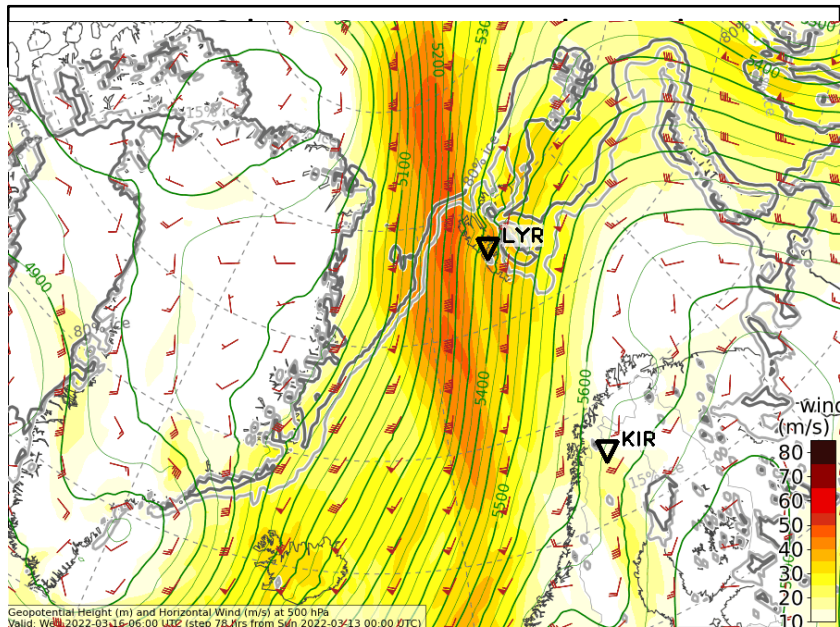
850 hPa Equiv. pot. temperature



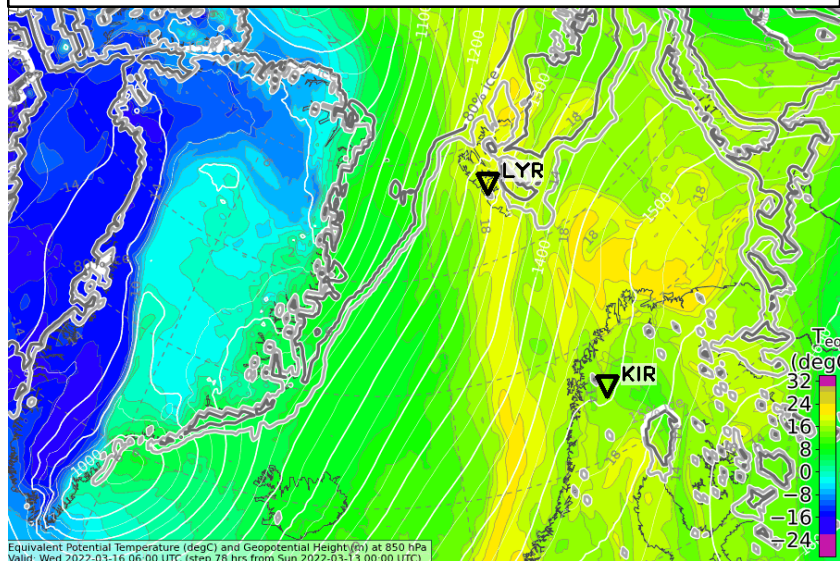
Integrated water vapour transport



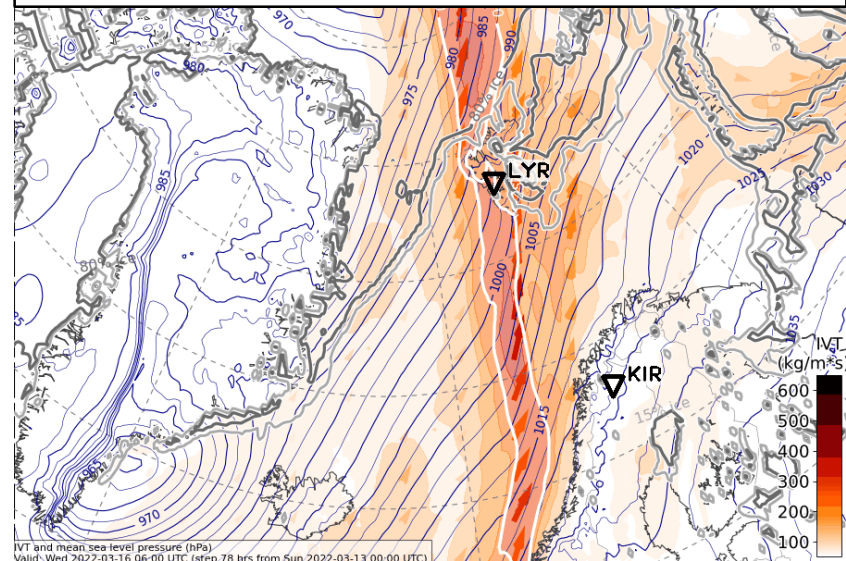
Wed, 2022-03-16 06 UTC (+78h)



850 hPa Equiv. pot. temperature

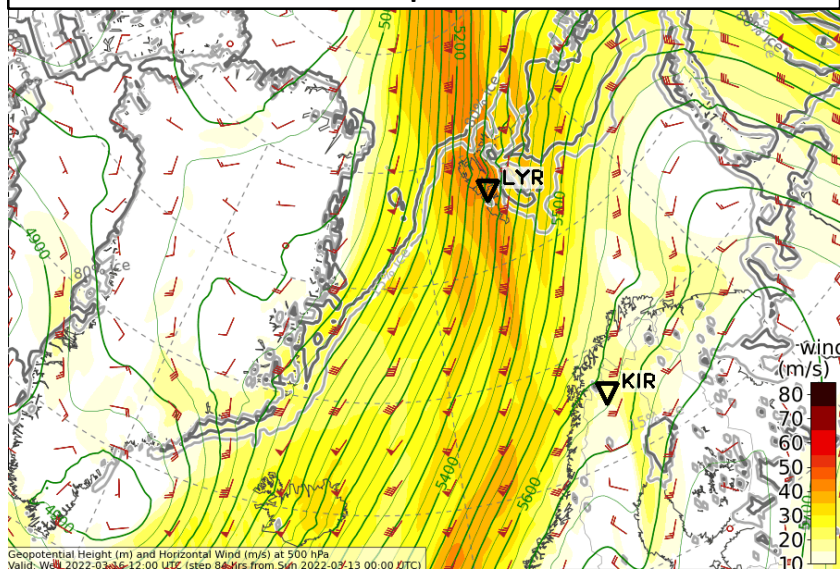


Integrated water vapour transport

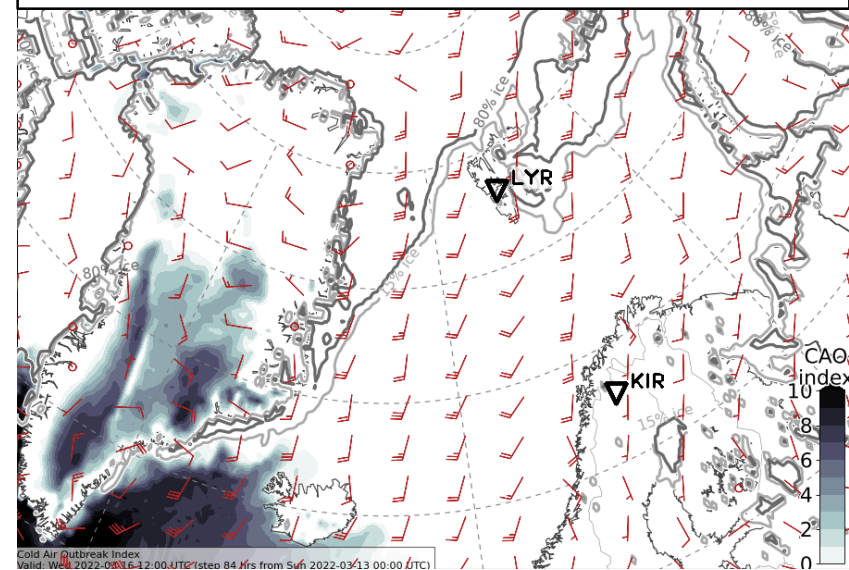


Wed, 2022-03-16 12 UTC (+84h)

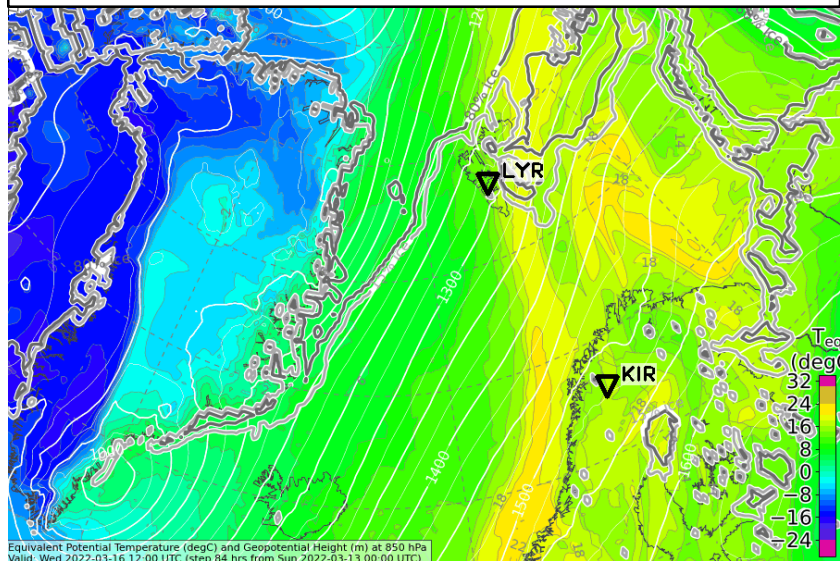
500 hPa Geopot. and Wind



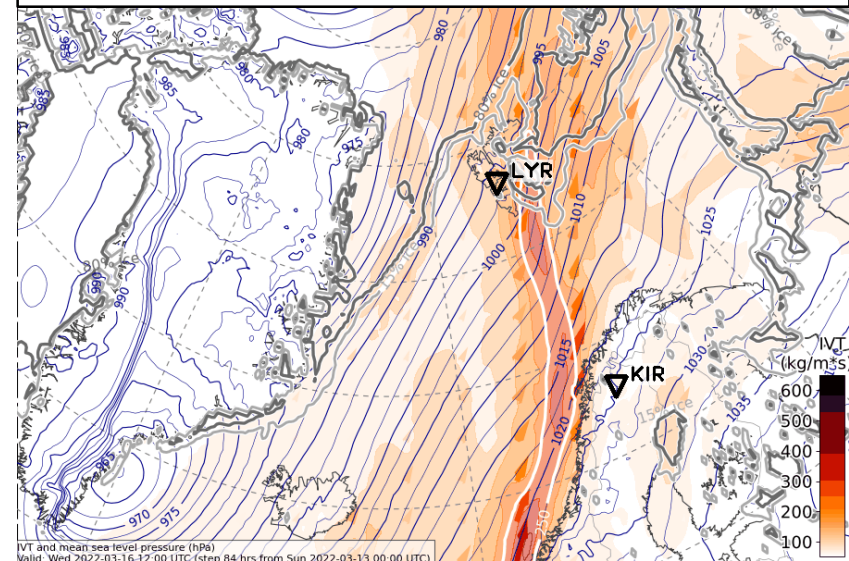
CAO Index



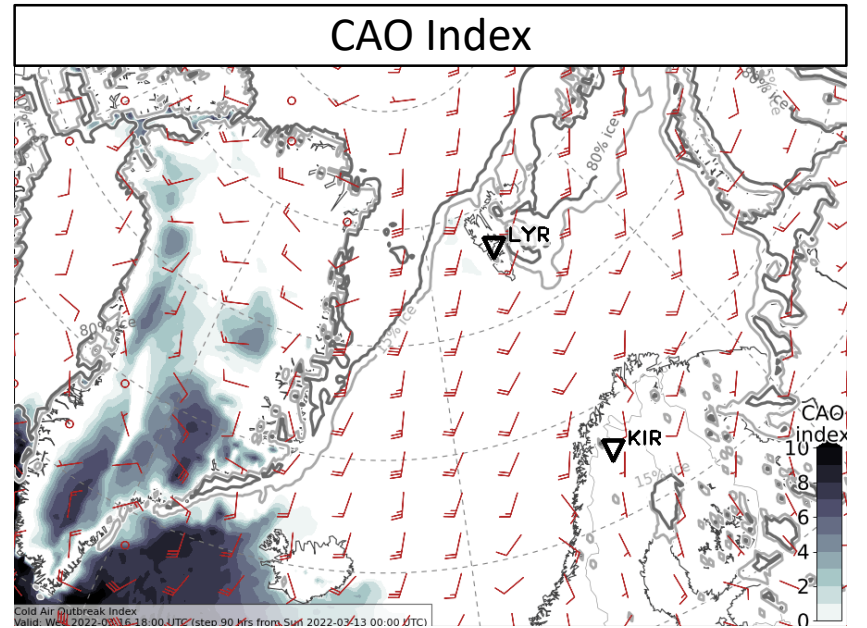
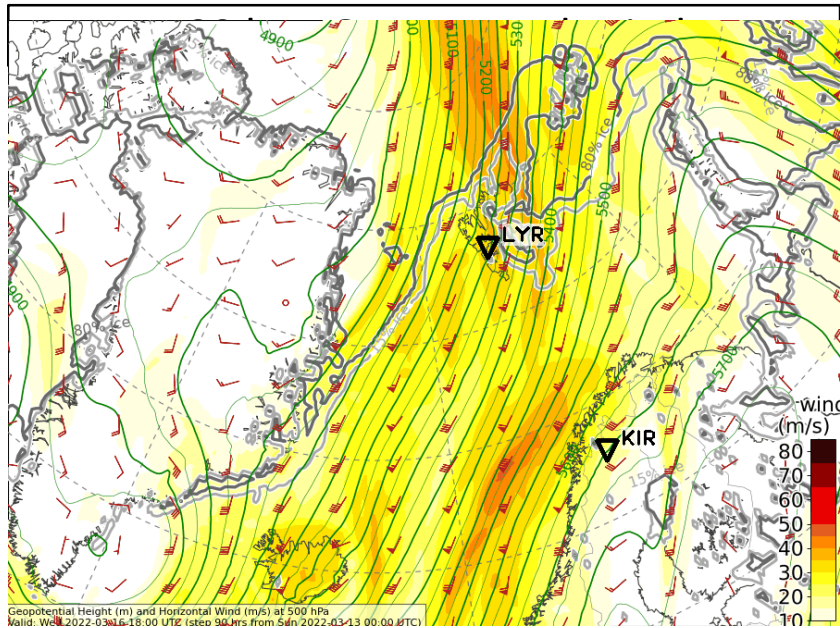
850 hPa Equiv. pot. temperature



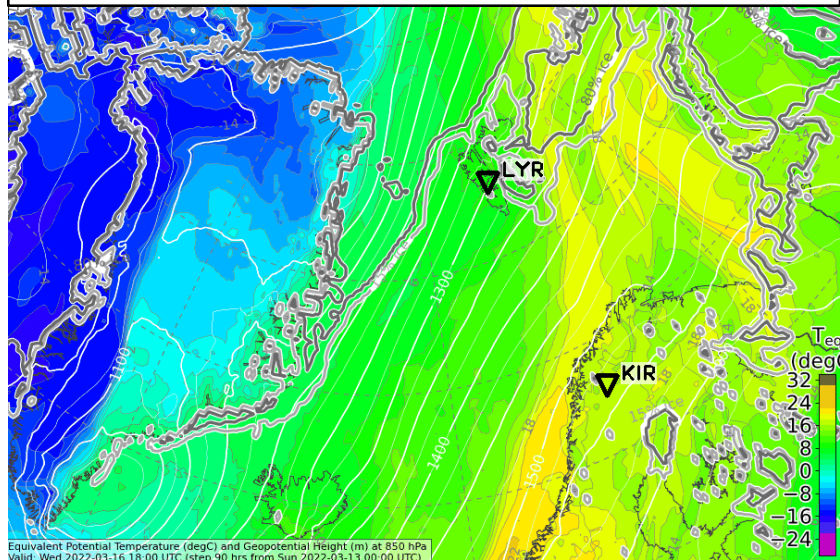
Integrated water vapour transport



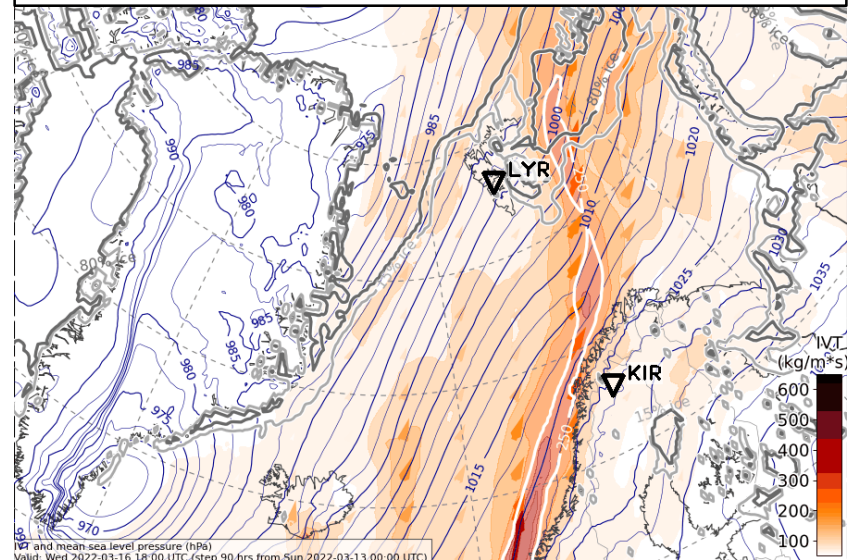
Wed, 2022-03-16 18 UTC (+90h)



850 hPa Equiv. pot. temperature

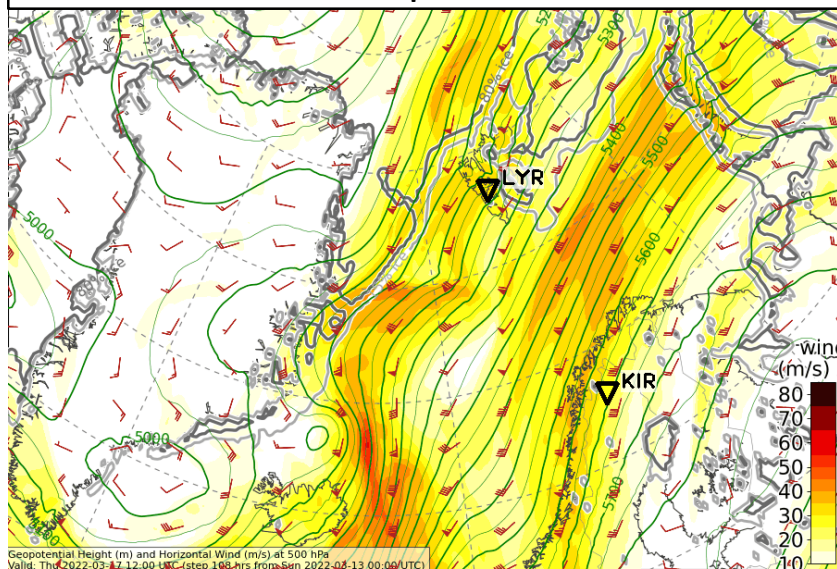


Integrated water vapour transport

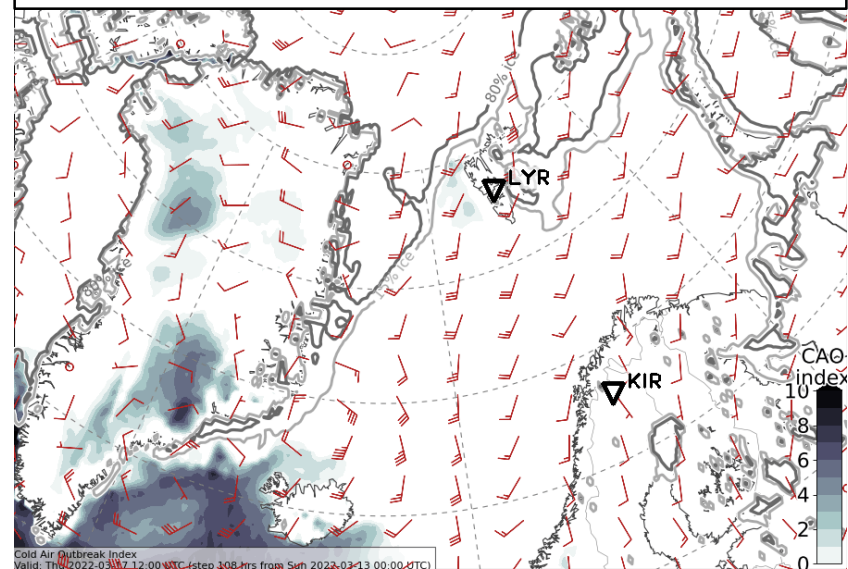


Thu, 2022-03-17 12 UTC (+108h)

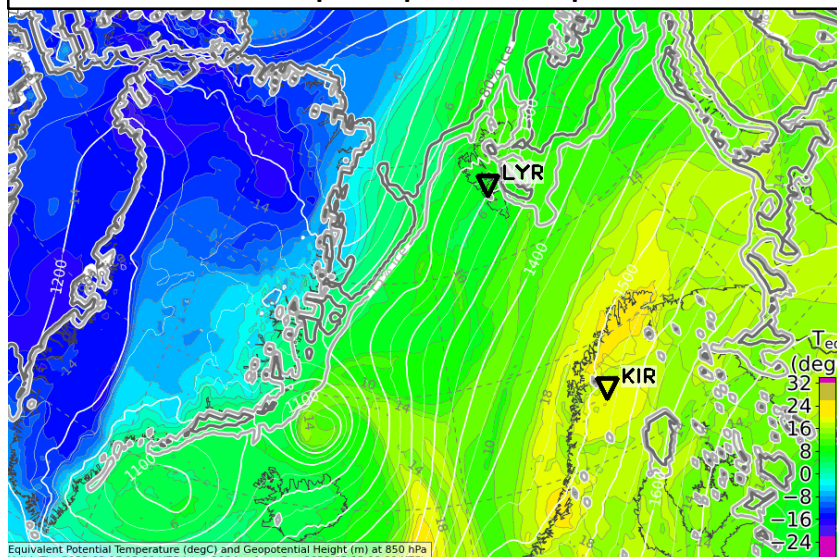
500 hPa Geopot. and Wind



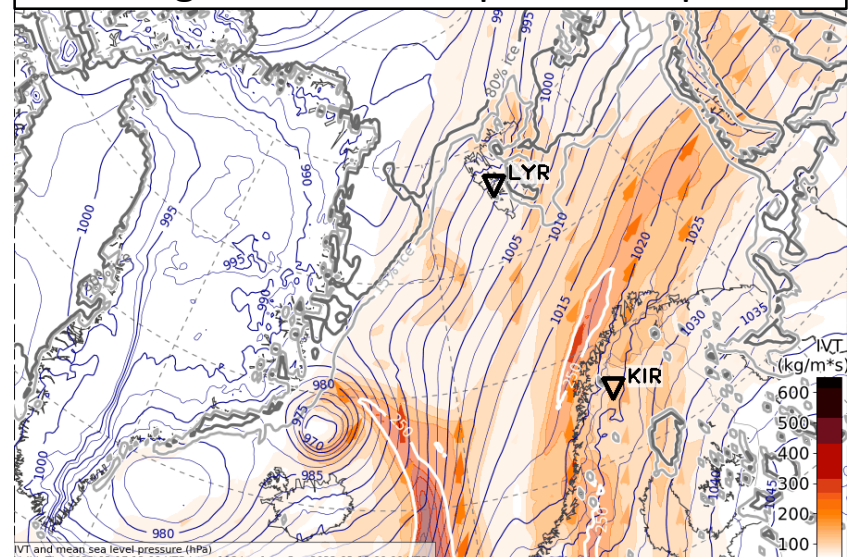
CAO Index



850 hPa Equiv. pot. temperature



Integrated water vapour transport

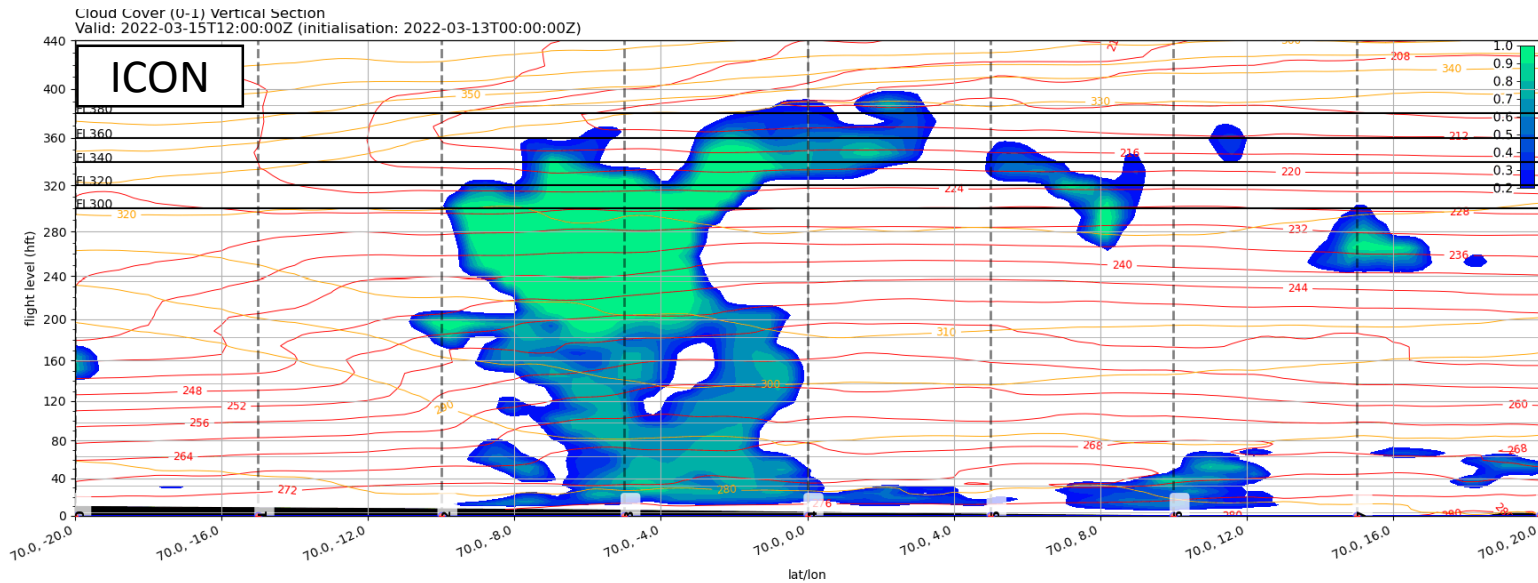
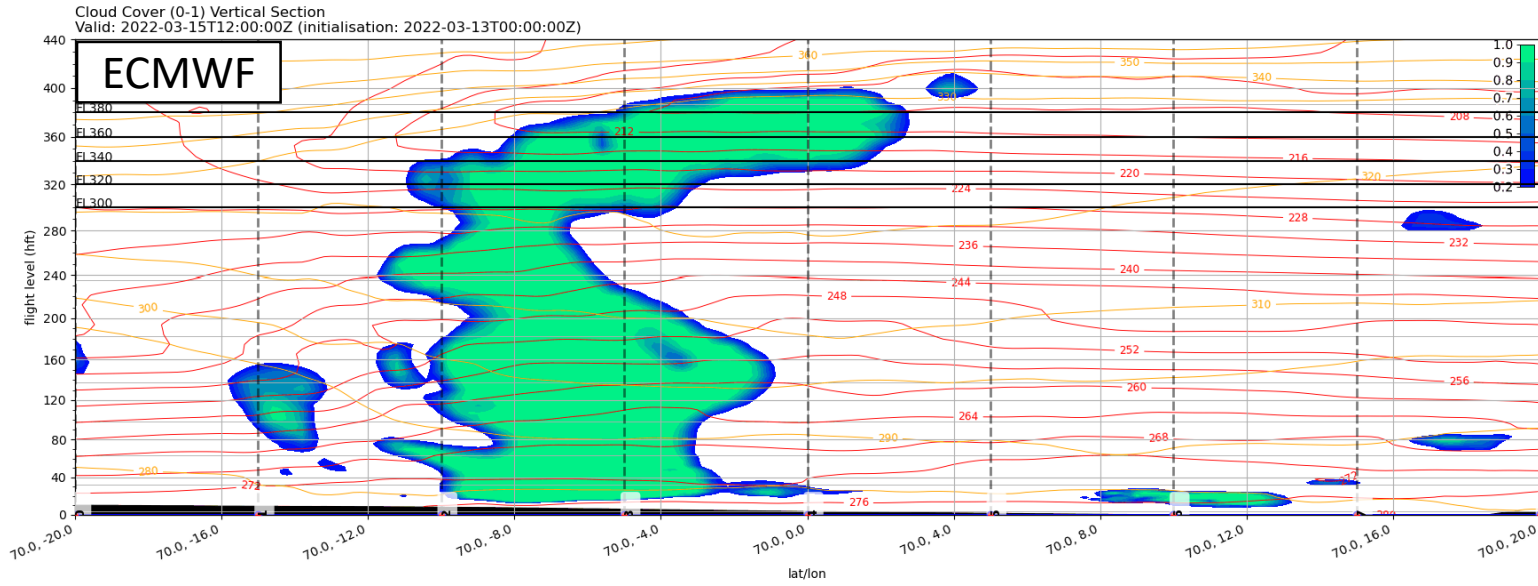


Cross sections

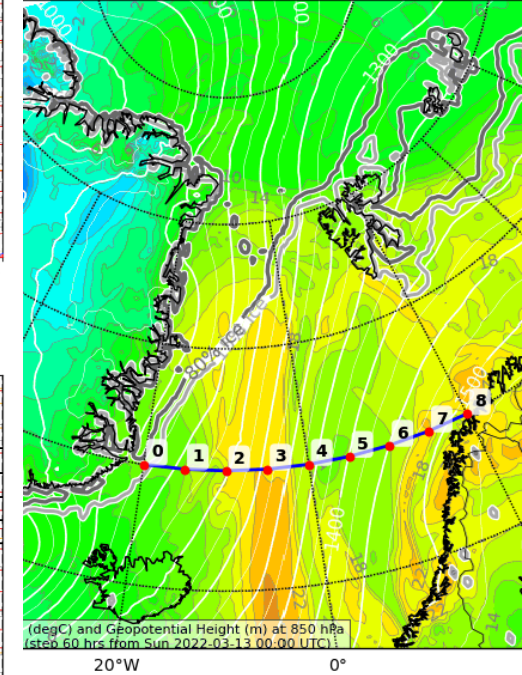
2022-03-13 00 UTC: +60h

Clouds, specific humidity

Tue, 2022-03-15 12 UTC: Clouds

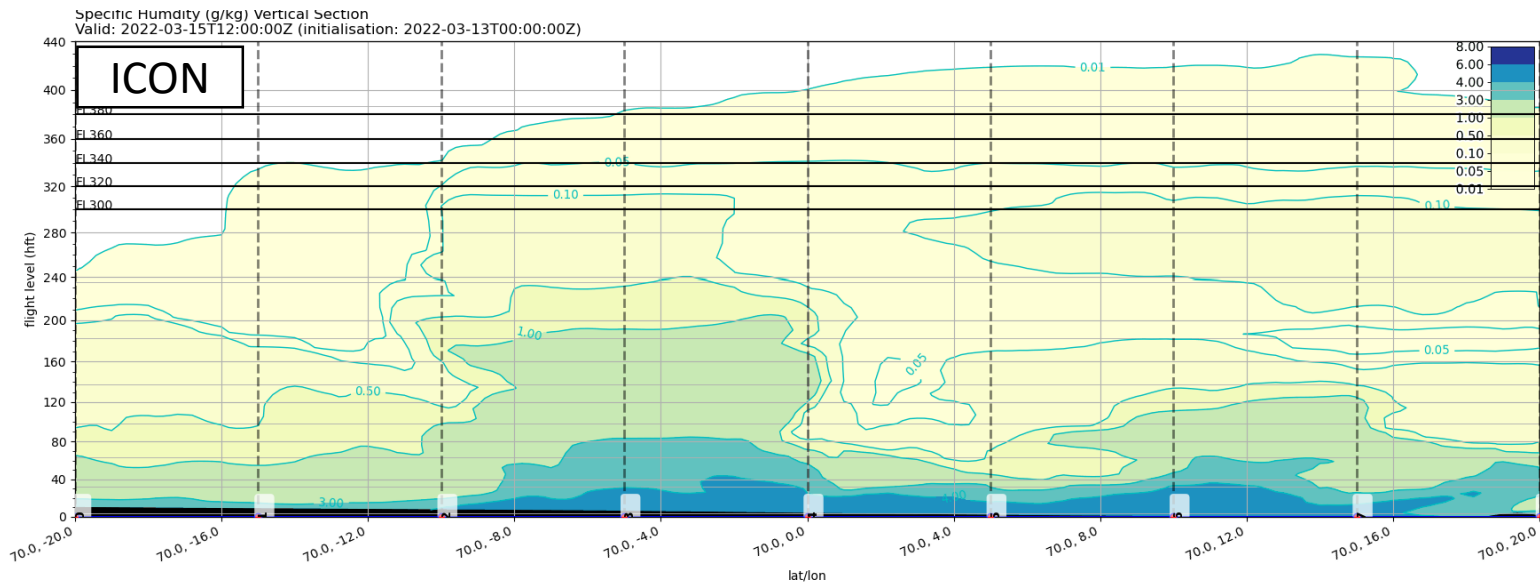
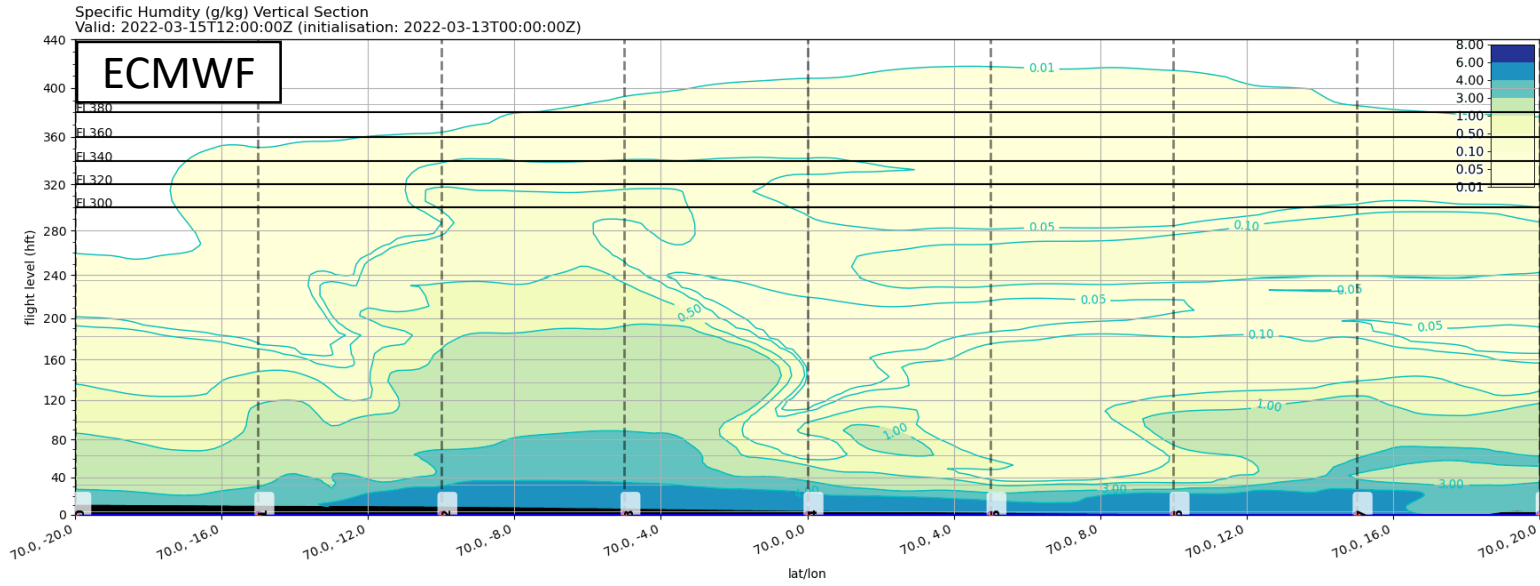


Temperature Potential (degC) and Geopotential Height (m) at 850 hPa
Valid: 2022-03-15T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)

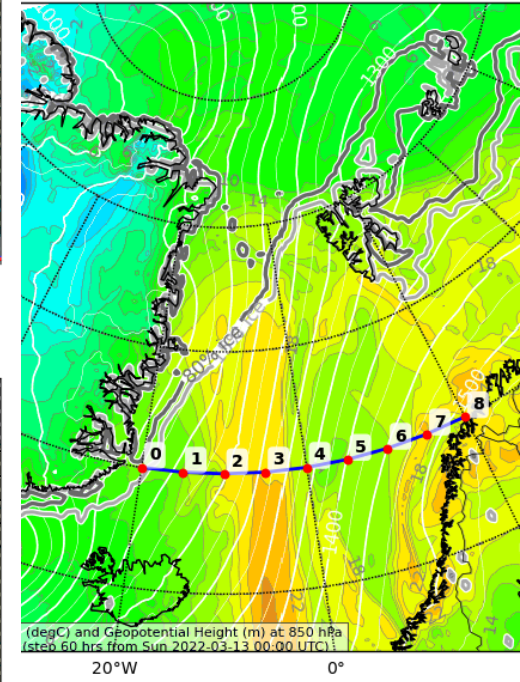


Temperature Potential (degC) and Geopotential Height (m) at 850 hPa
(Step 60 hrs from Sun 2022-03-13 00:00 UTC)

Tue, 2022-03-15 12 UTC: Specific humidity

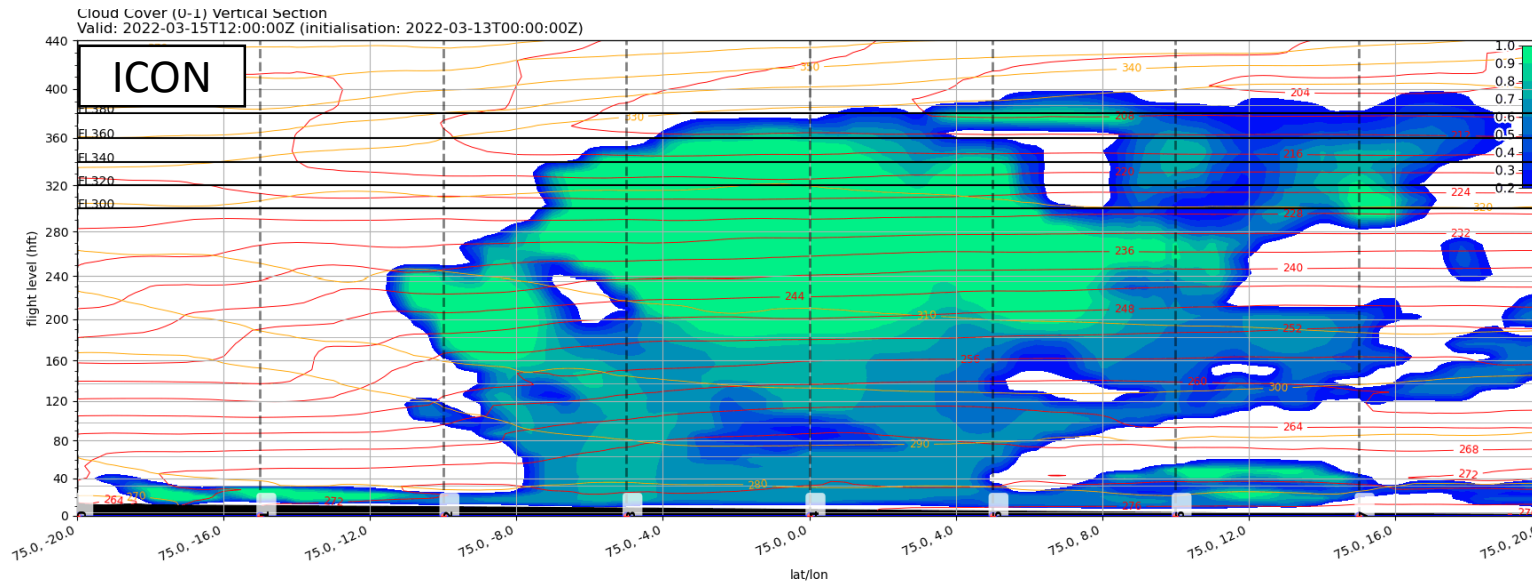
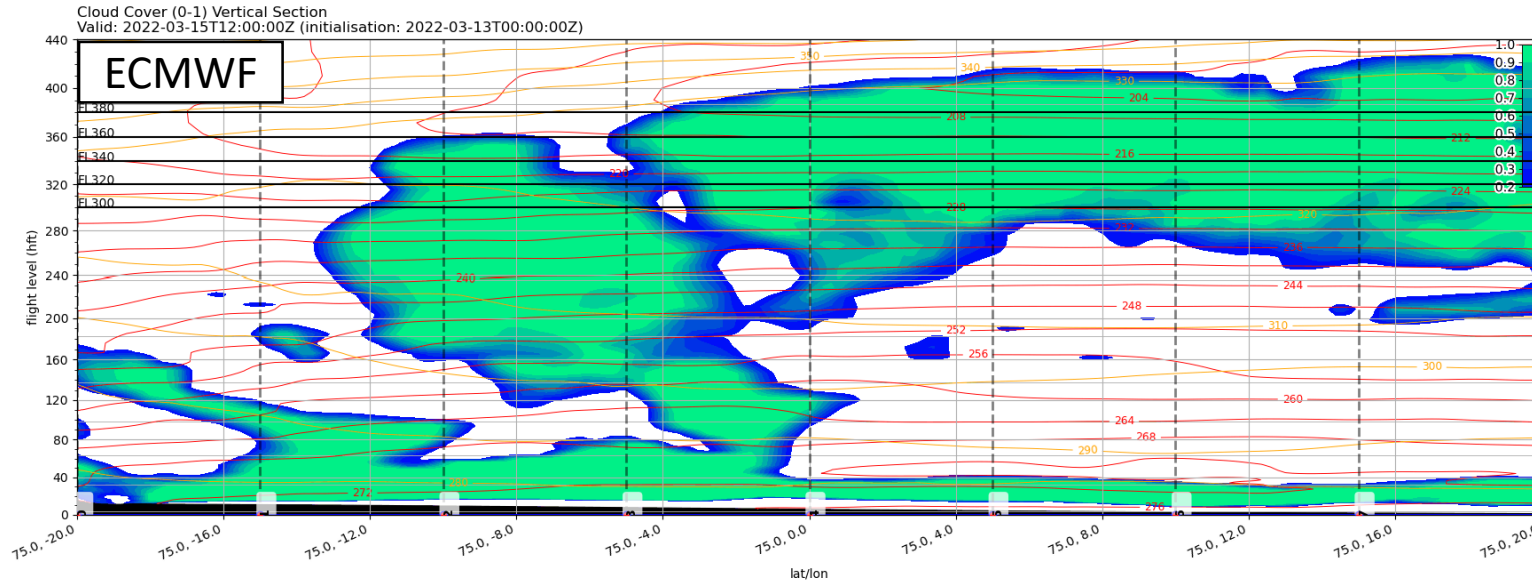


Geopotential Height (m) and Geopotential Height (m) at 850 hPa
Valid: 2022-03-15T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)

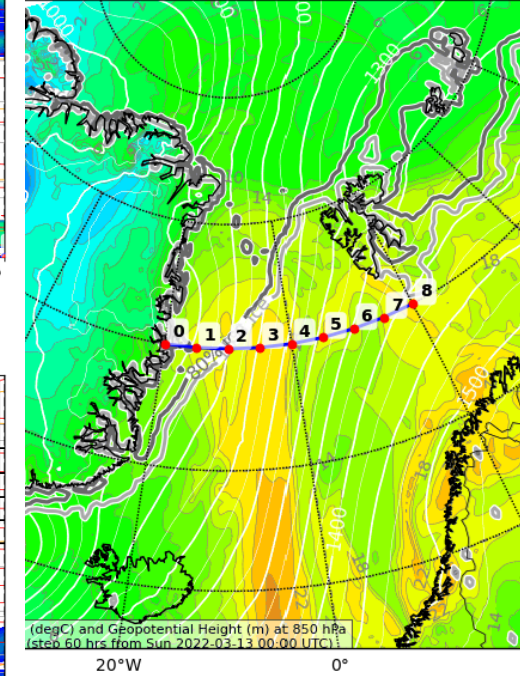


Temperature (degC) and Geopotential Height (m) at 850 hPa
(step 60 hrs from Sun 2022-03-13 00:00 UTC)

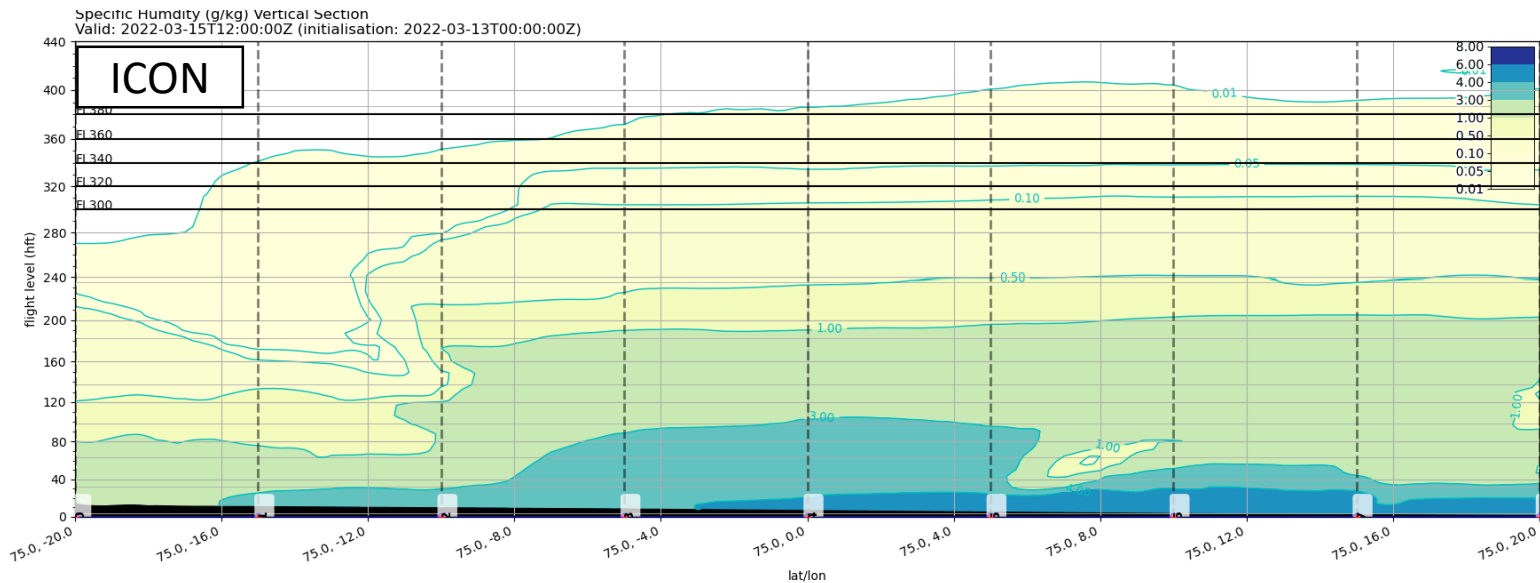
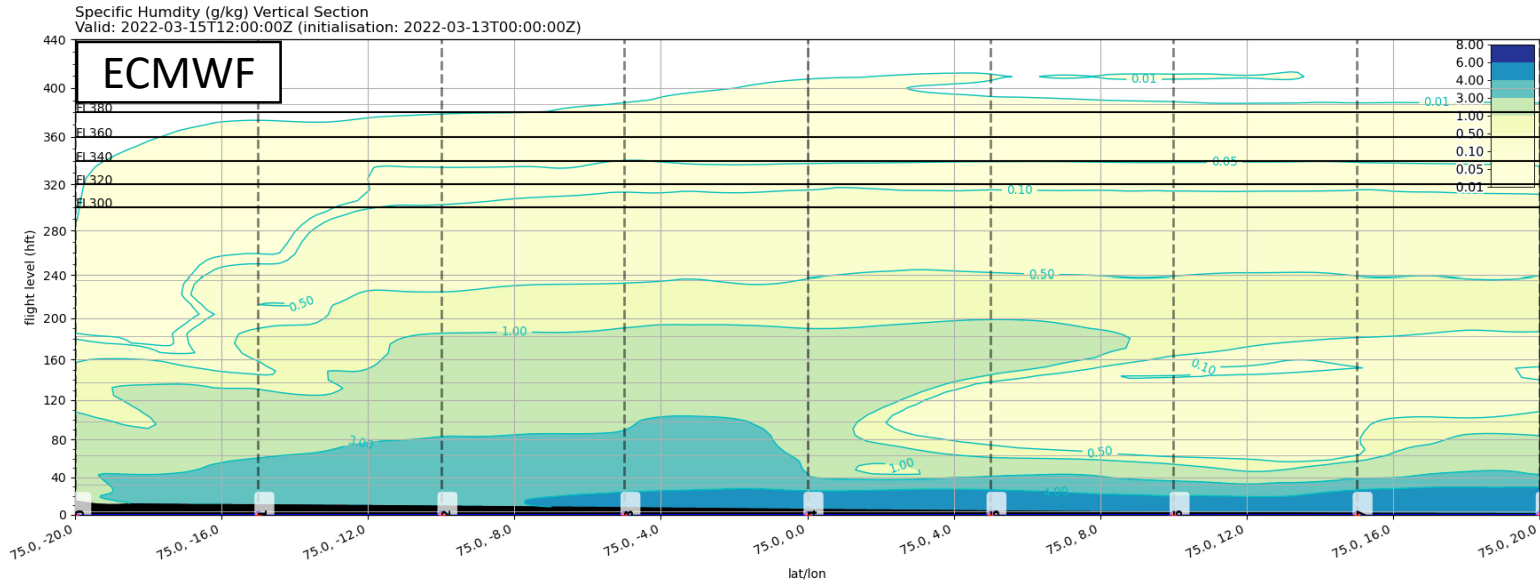
Tue, 2022-03-15 12 UTC: Clouds



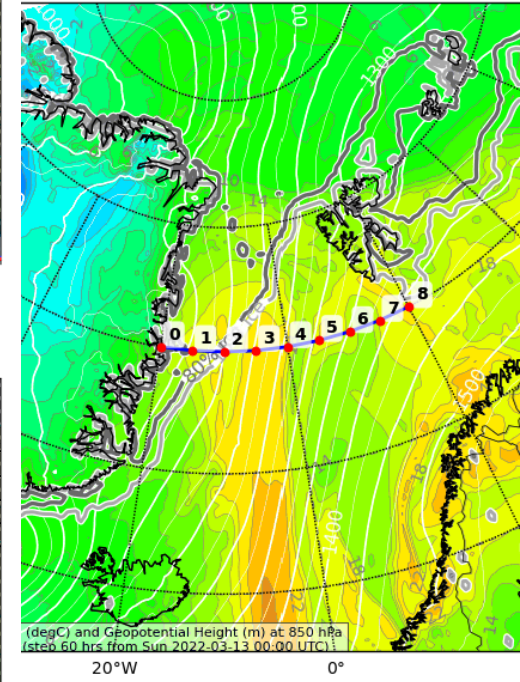
Temperature Potential (degC) and Geopotential Height (m) at 850 hPa
Valid: 2022-03-15T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)



Tue, 2022-03-15 12 UTC: Specific humidity

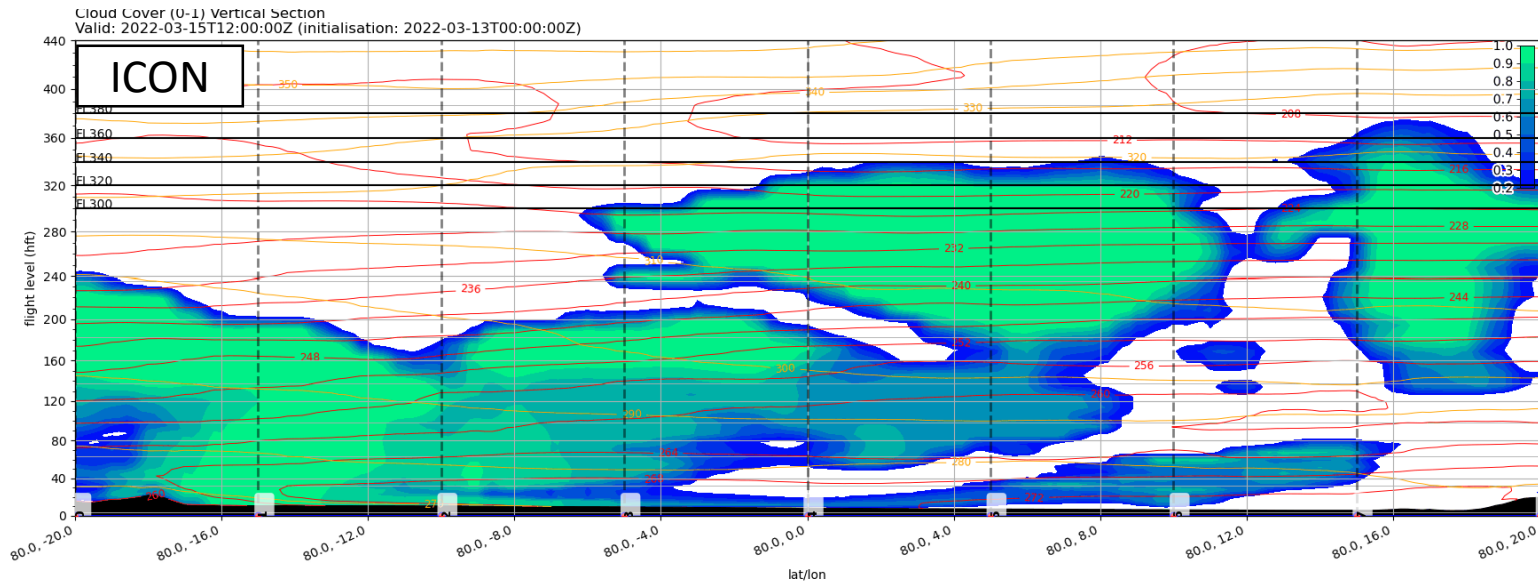
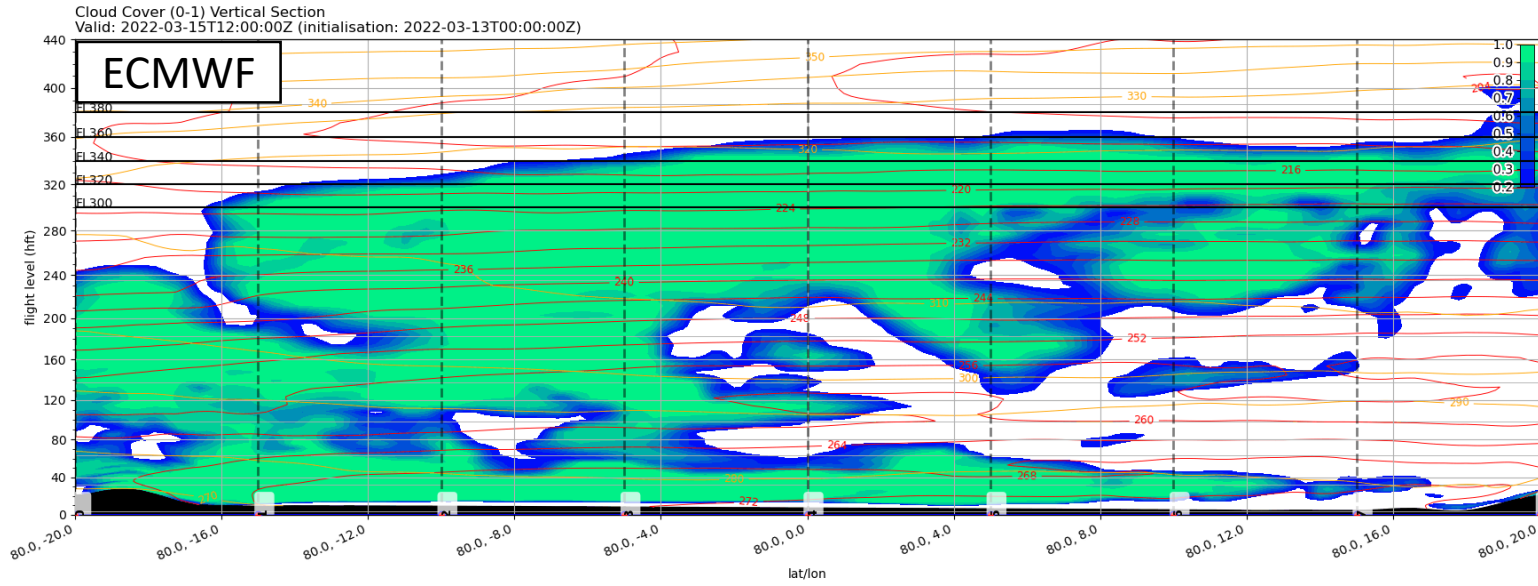


Temperature (degC) and Geopotential Height (m) at 850 hPa
Valid: 2022-03-15T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)

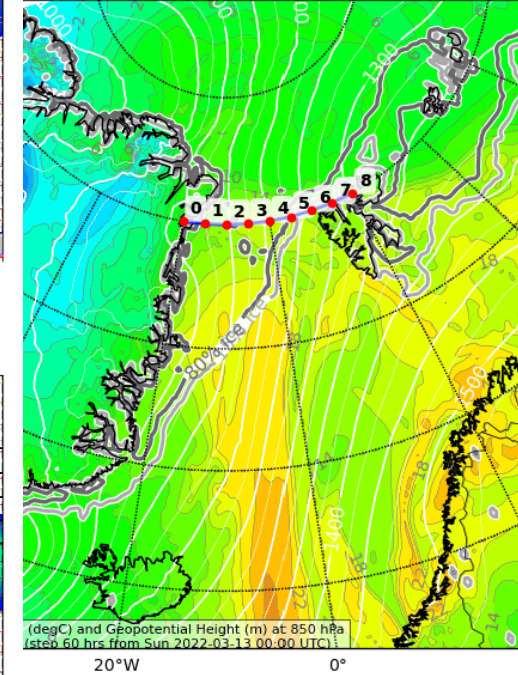


Temperature (degC) and Geopotential Height (m) at 850 hPa
(step 60 hrs from Sun 2022-03-13 00:00 UTC)

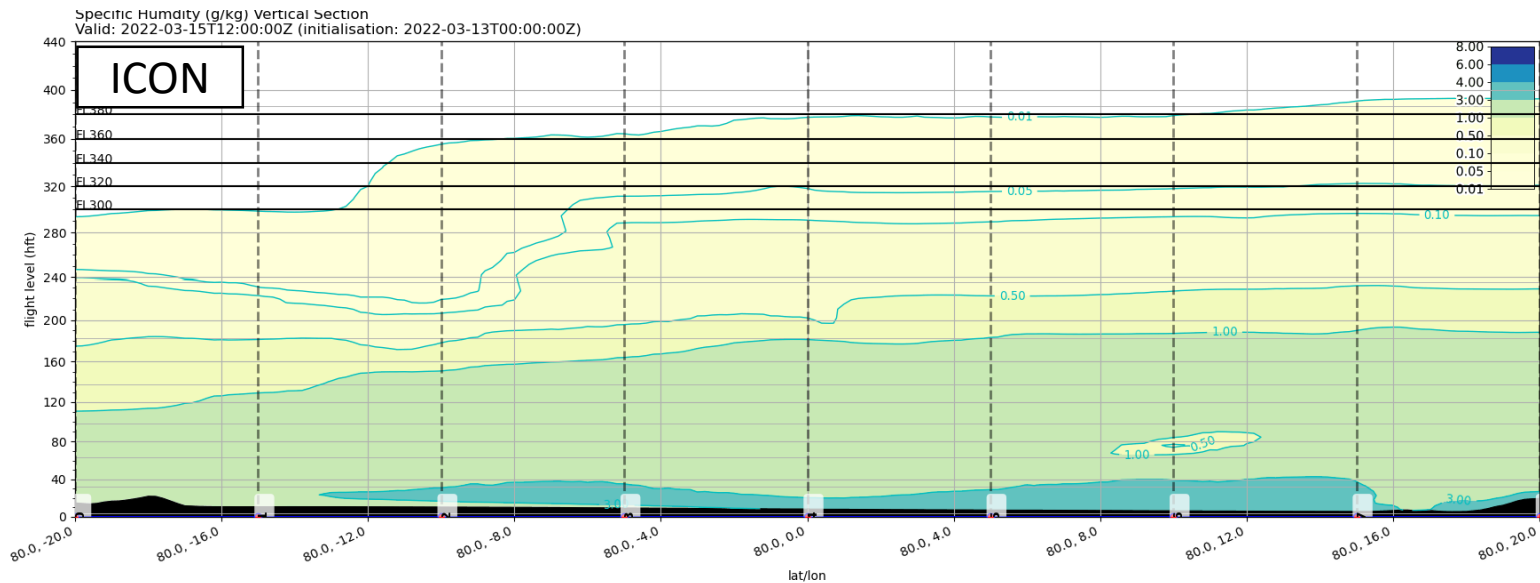
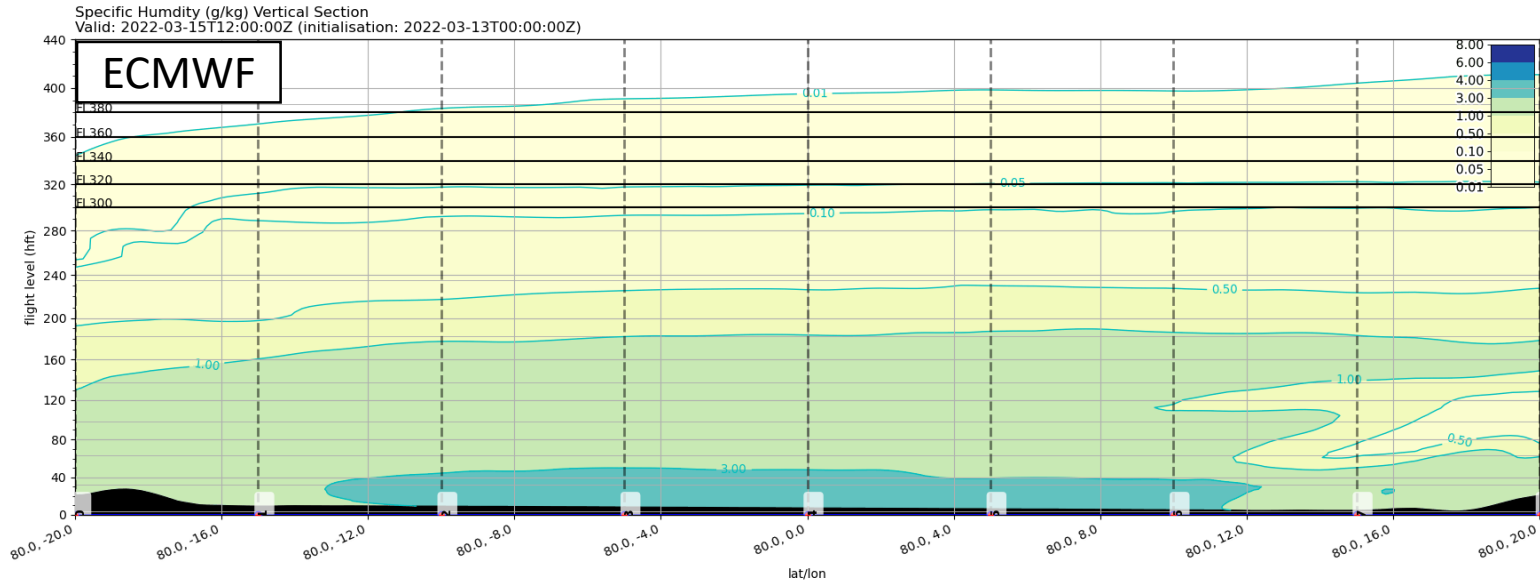
Tue, 2022-03-15 12 UTC: Clouds



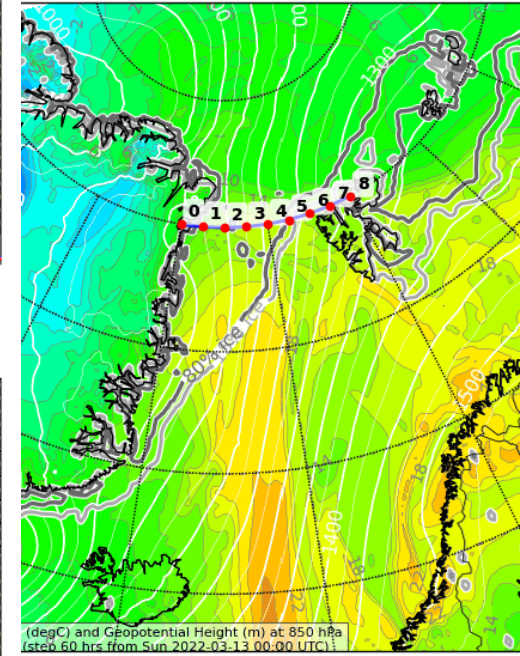
ent Potential (degC) and Geopotential Height (m) at 850 hPa
00:00Z (initialisation: 2022-03-13T00:00:00Z)



Tue, 2022-03-15 12 UTC: Specific humidity



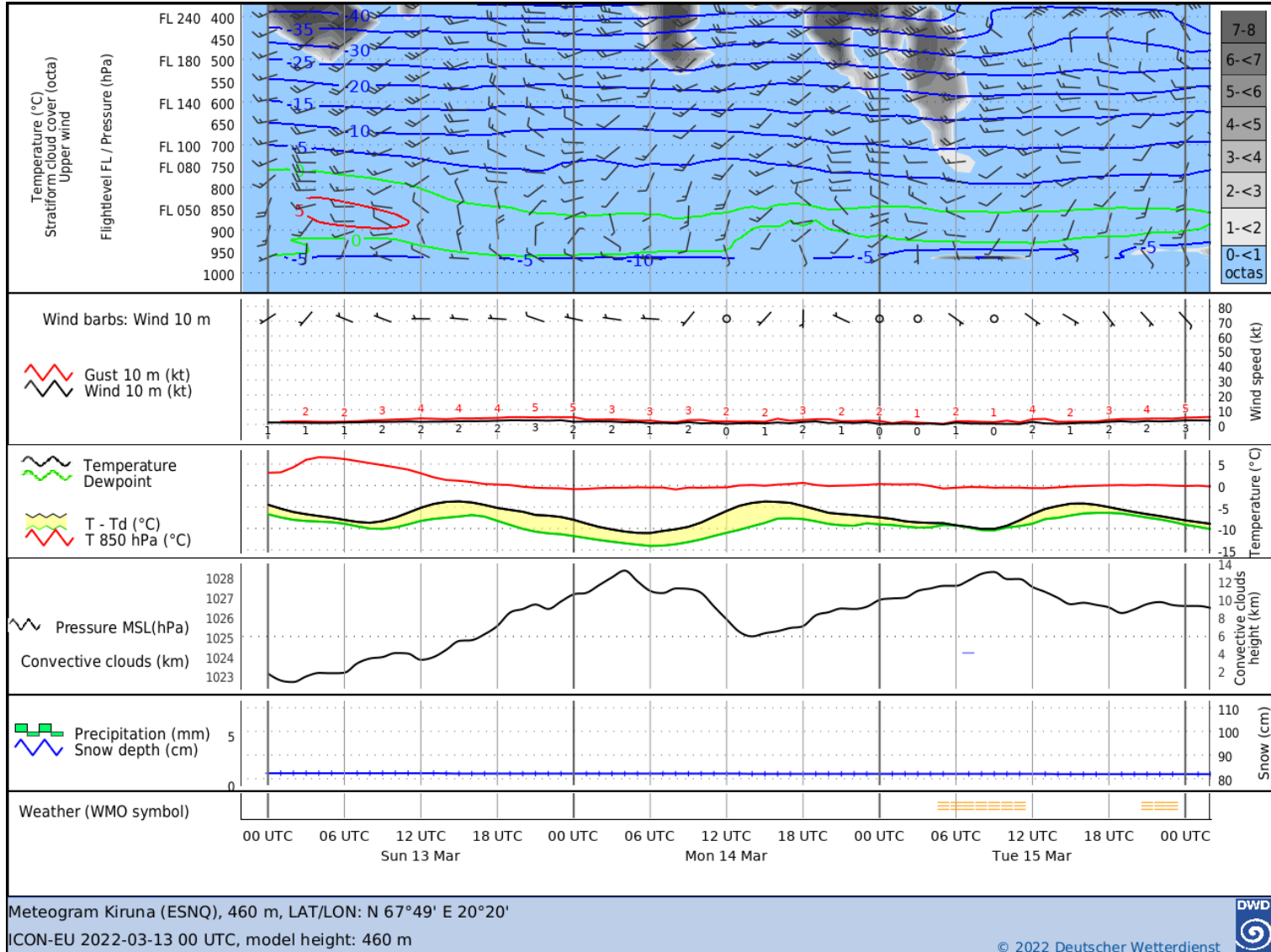
Temperature (degC) and Geopotential Height (m) at 850 hPa
Valid: 2022-03-15T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)



Temperature (degC) and Geopotential Height (m) at 850 hPa
(step 60 hrs from Sun 2022-03-13 00:00 UTC)

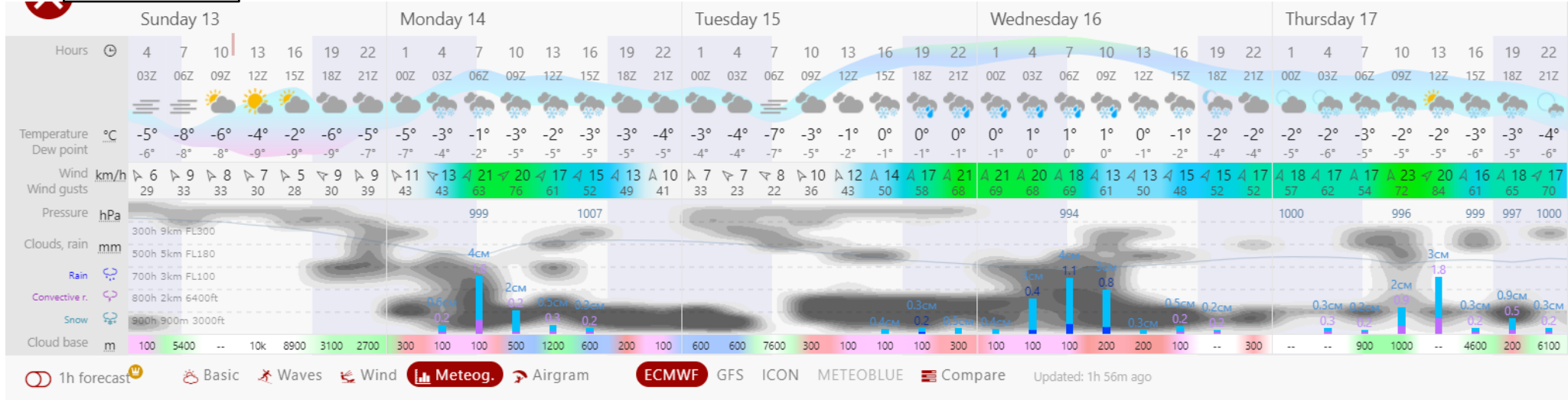
Airport meteograms
2022-03-13 00 UTC: 00 – 72h

Kiruna:

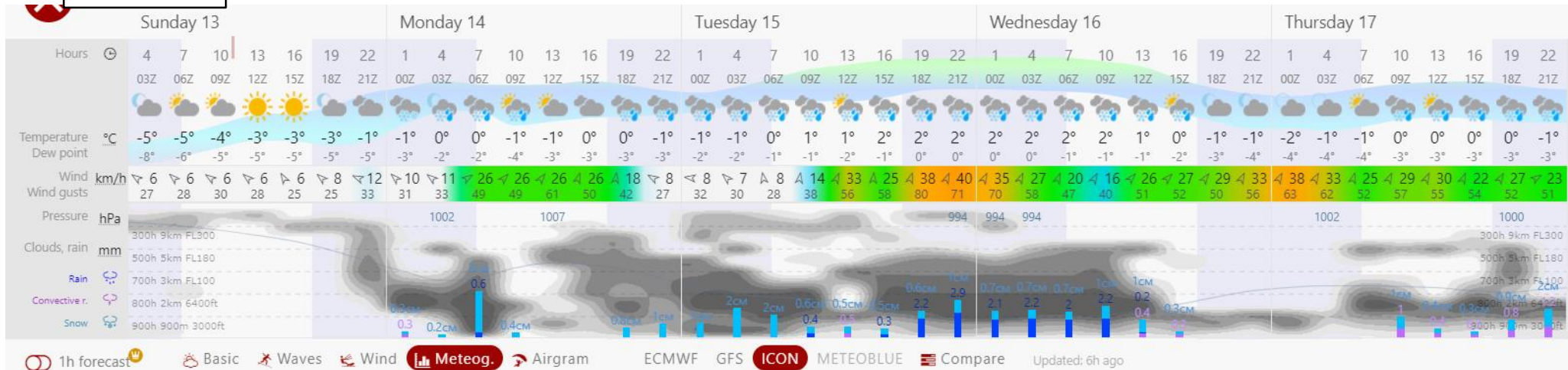


Longyearbyen:

ECMWF



ICON

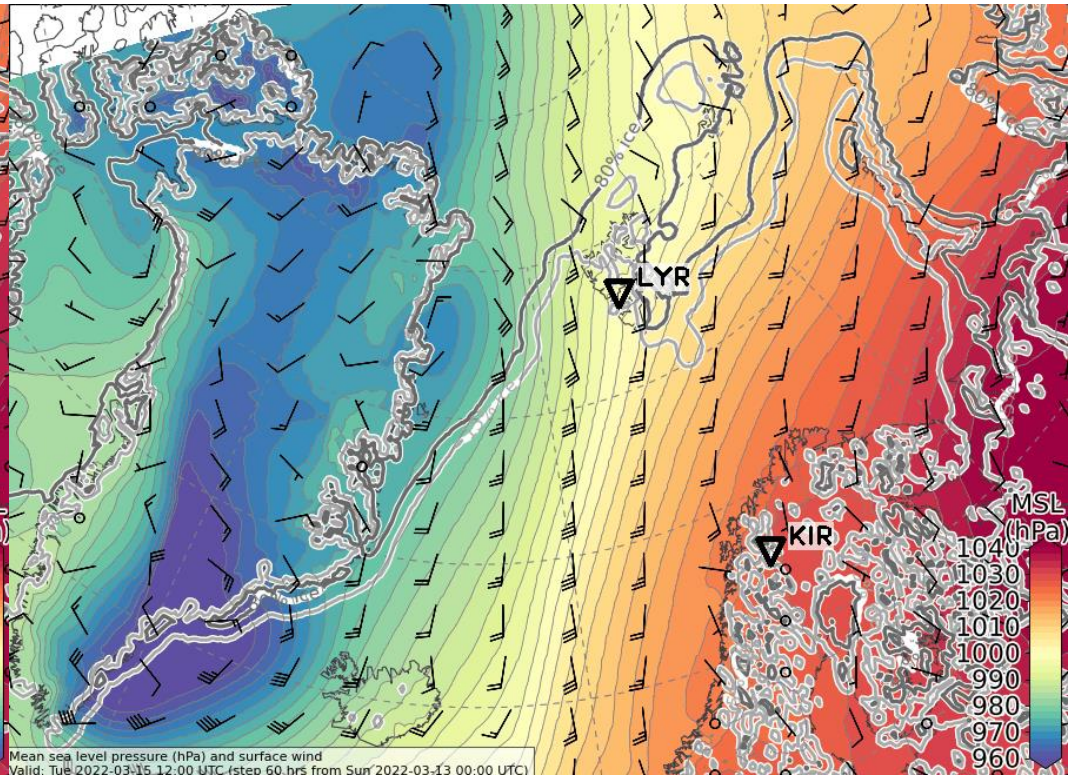
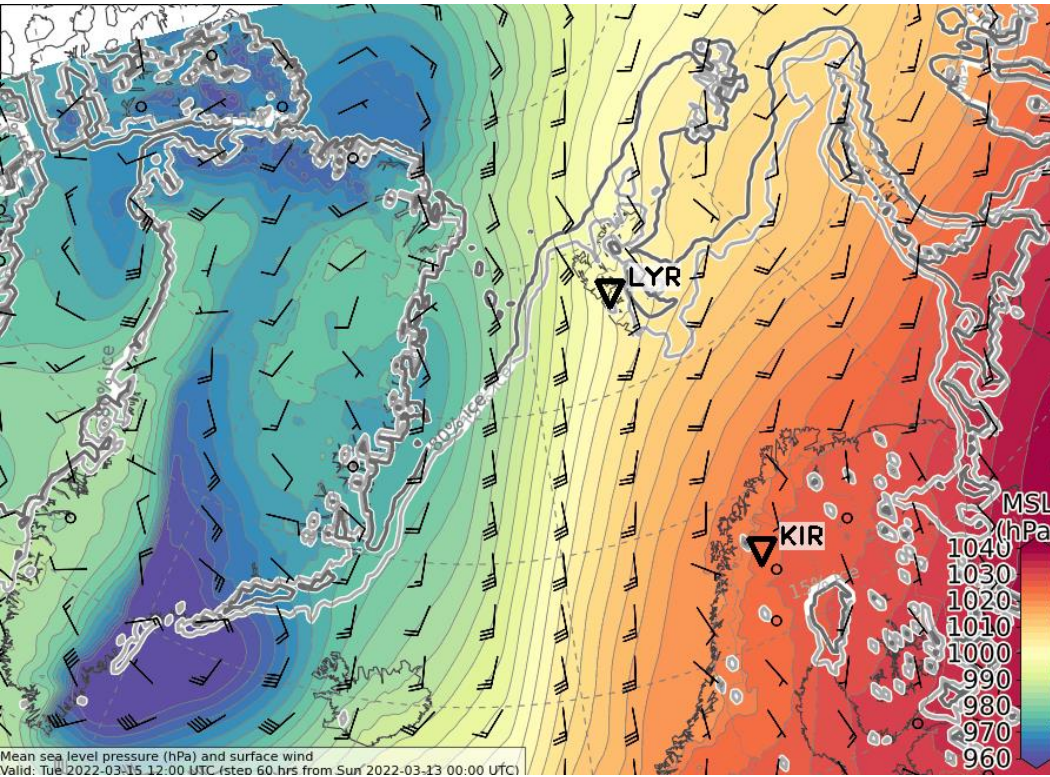


Forecast uncertainty
2022-03-13 00 UTC: 72 – 96h

Tuesday, 2022-03-15 12 UTC (+60h)

ECMWF

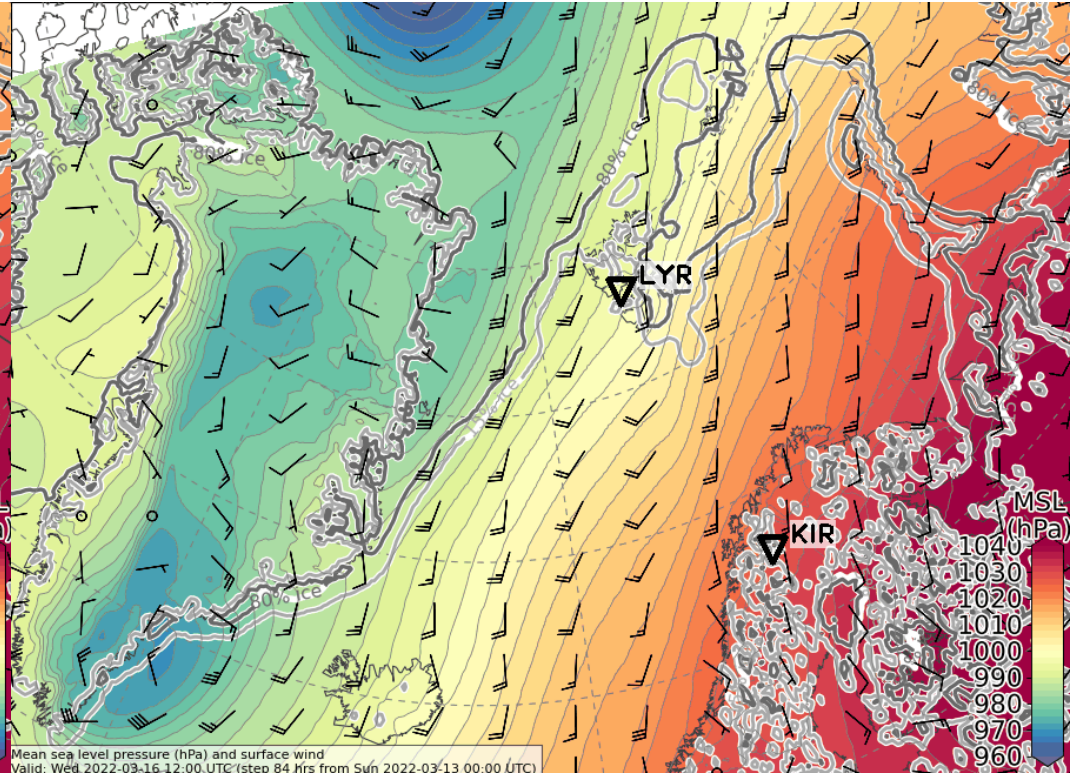
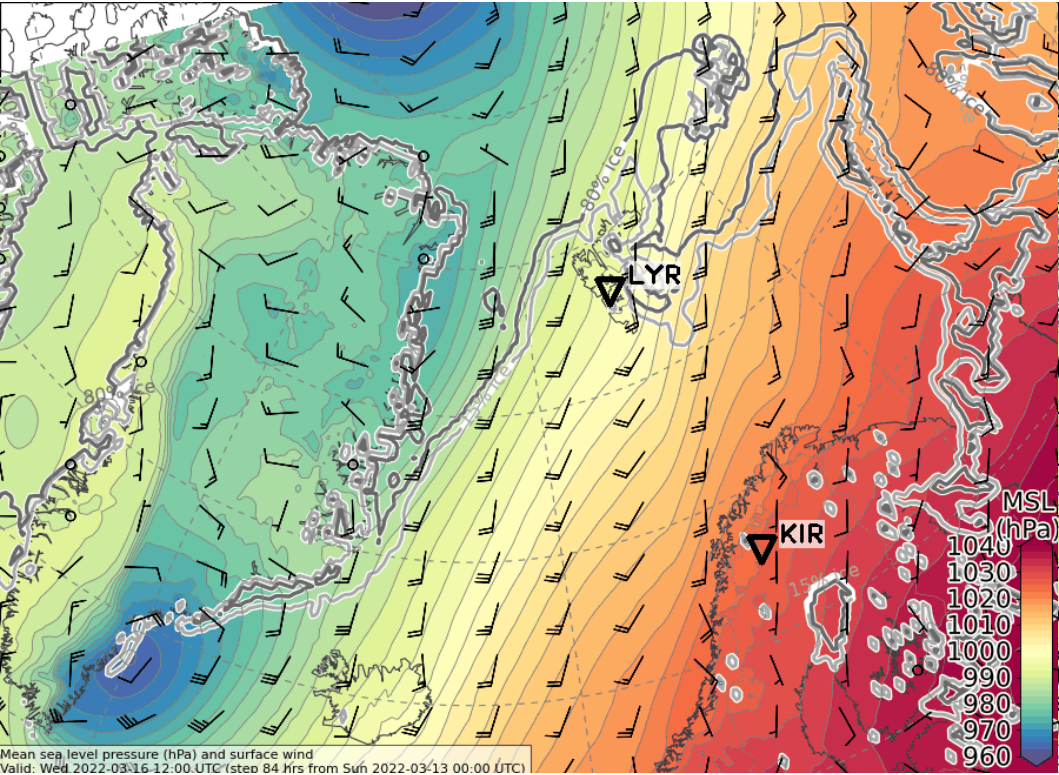
ICON



Wednesday, 2022-03-16 12 UTC (+84h)

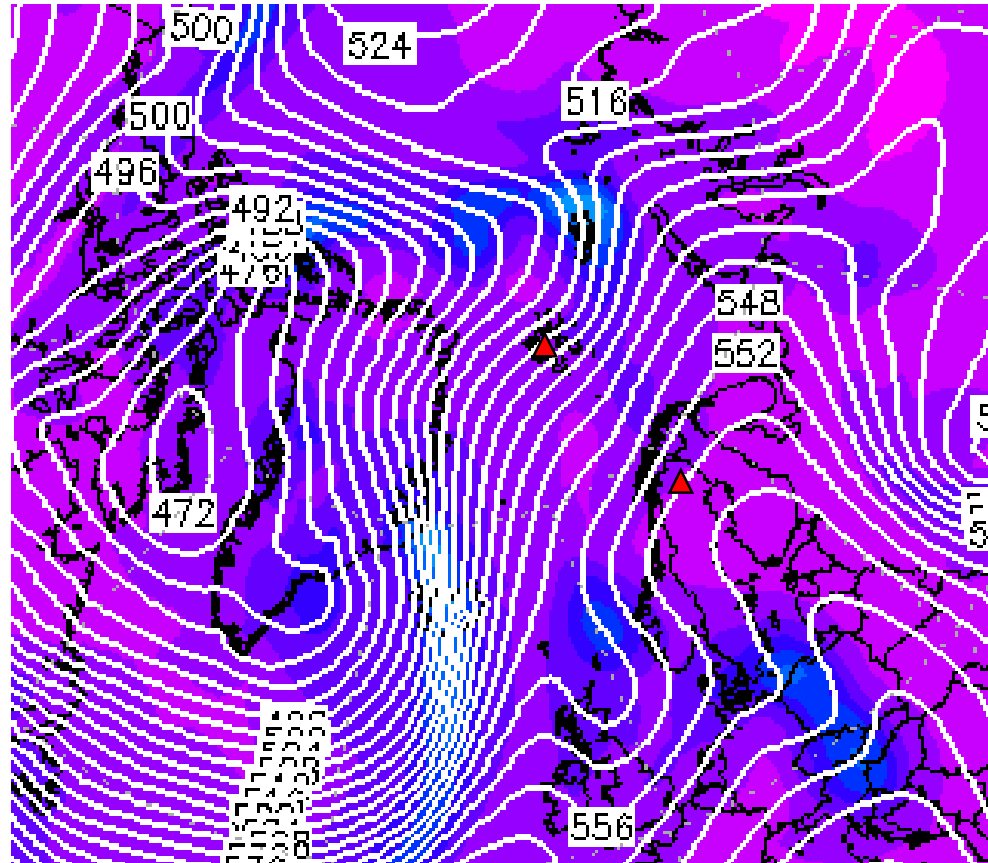
ECMWF

ICON



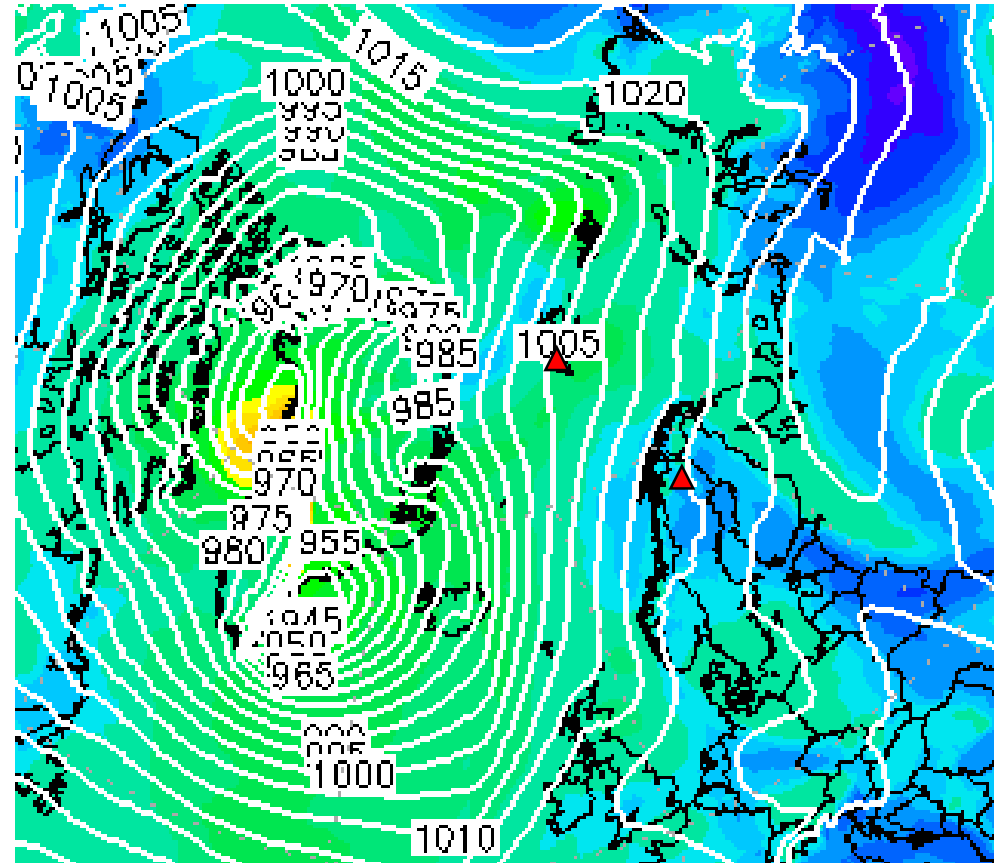
Tuesday, 2022-03-15 00 UTC (+48h)

500 hPa Geopot



gpdam

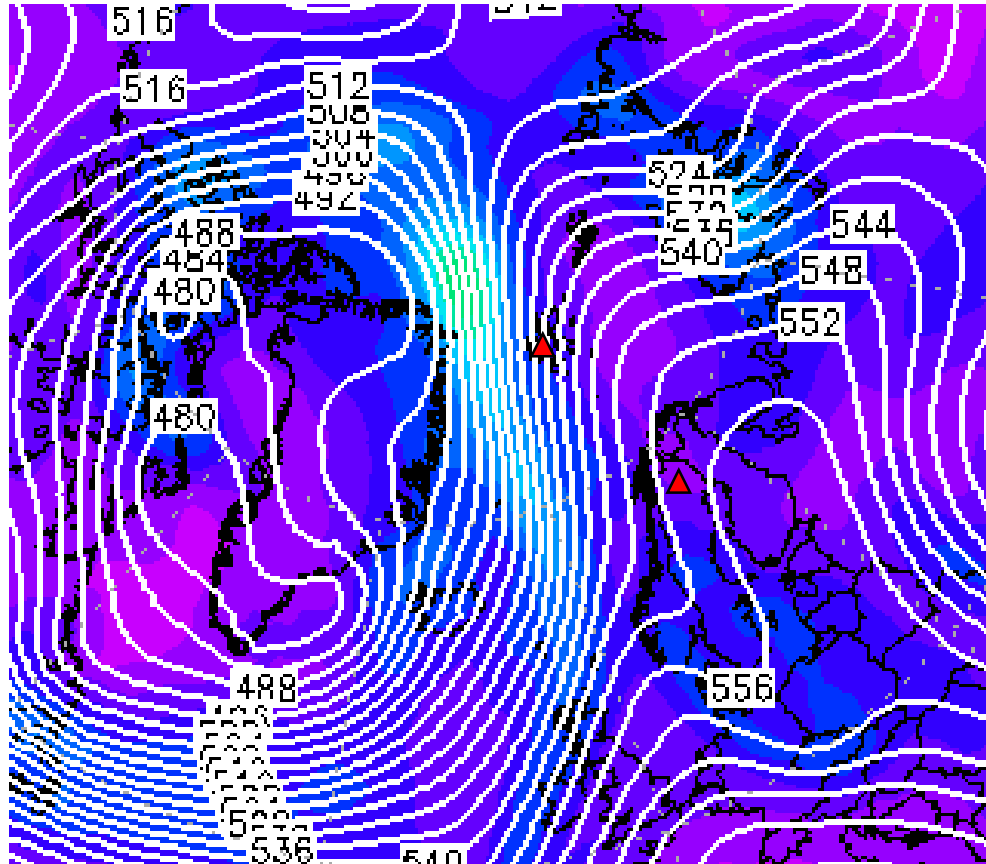
Sfc pressure



hPa

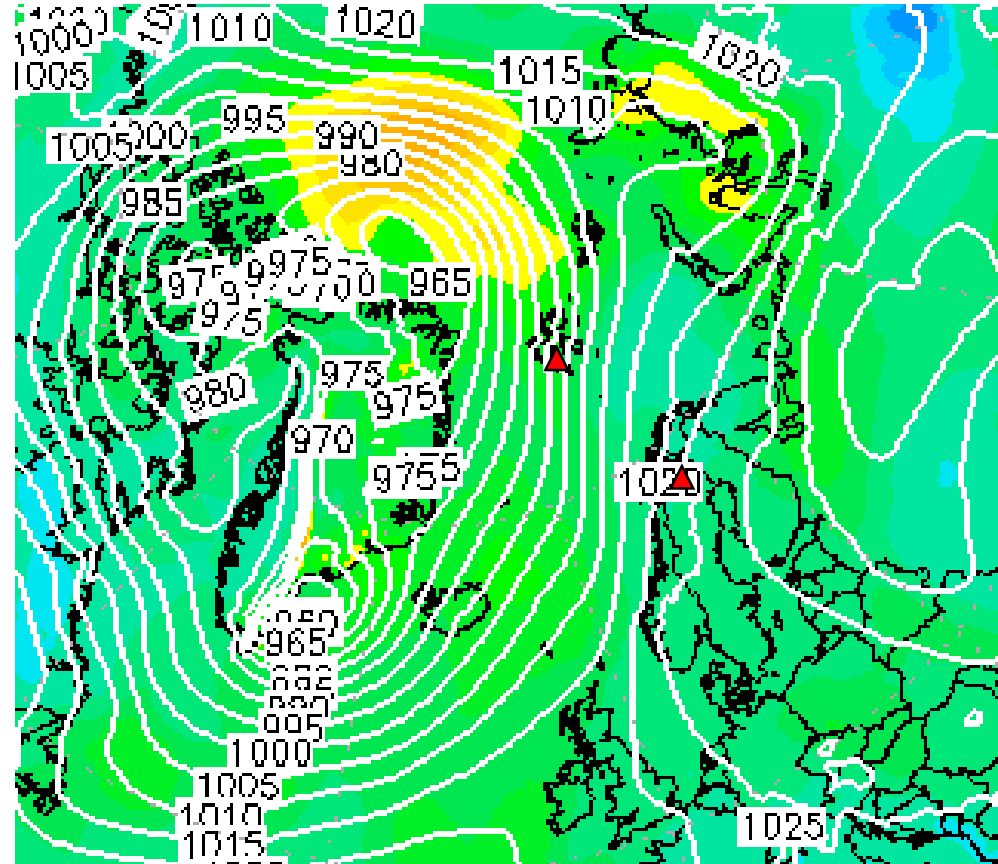
Wednesday, 2022-03-16 00 UTC (+72h)

500 hPa Geopot



gpdam

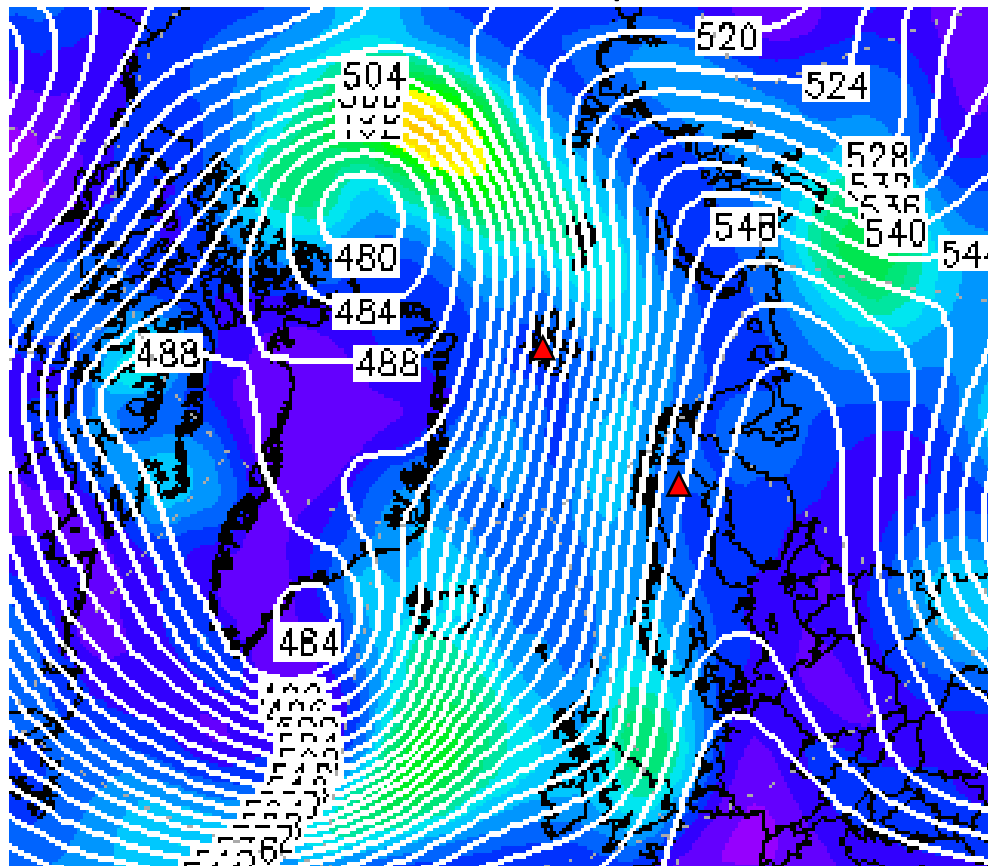
Sfc pressure



hPa

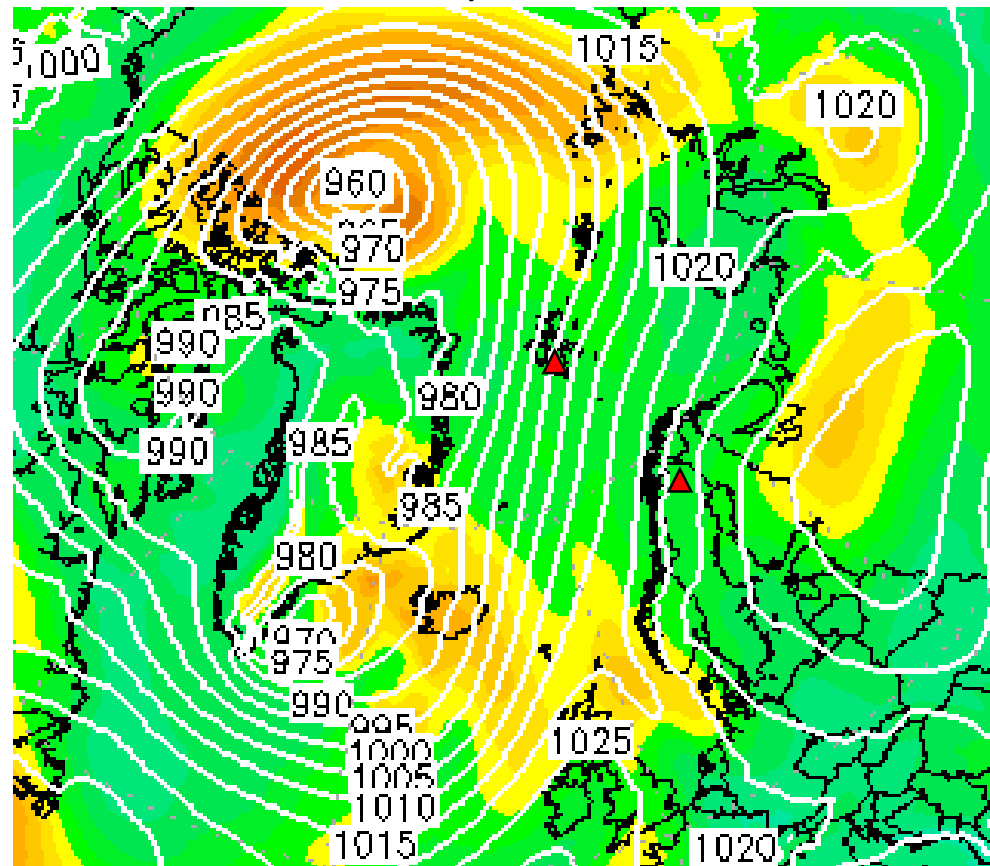
Thursday, 2022-03-17 00 UTC (+96h)

500 hPa Geopot



gpdam

Sfc pressure

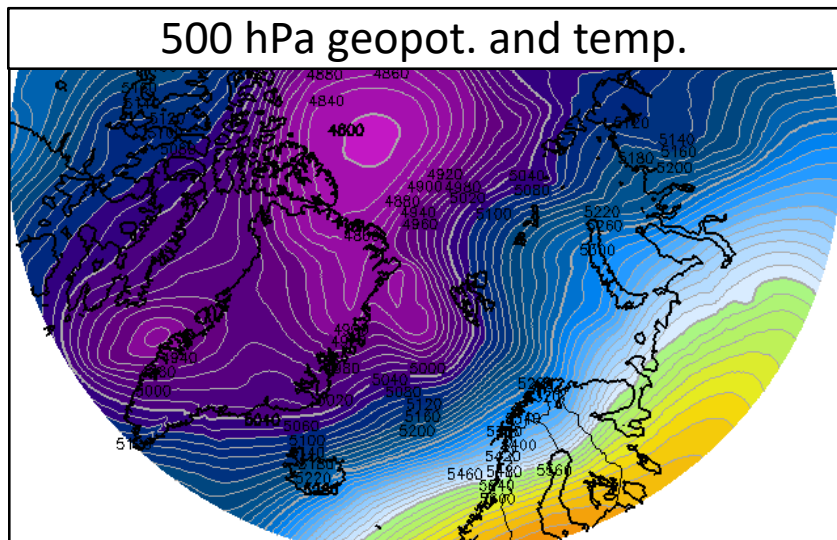


hPa

Outlook

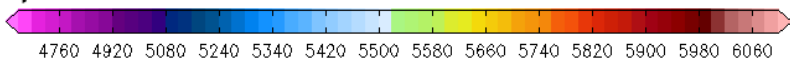
Thu, 2022-03-17 – Sun, 2022-03-20

Fri, 2022-03-18 12 UTC (+132h)

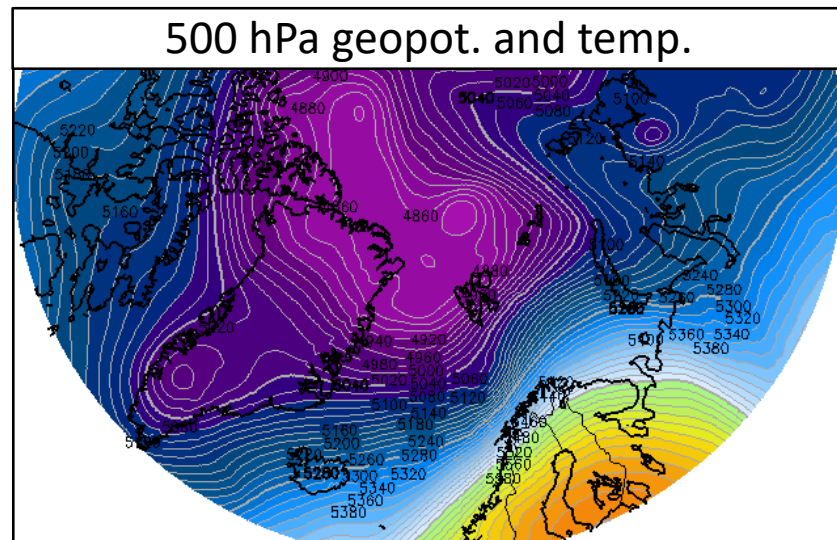


Geopotentielle Höhe, 500hPa (m)

Fr. 18.03.2022, 13:0

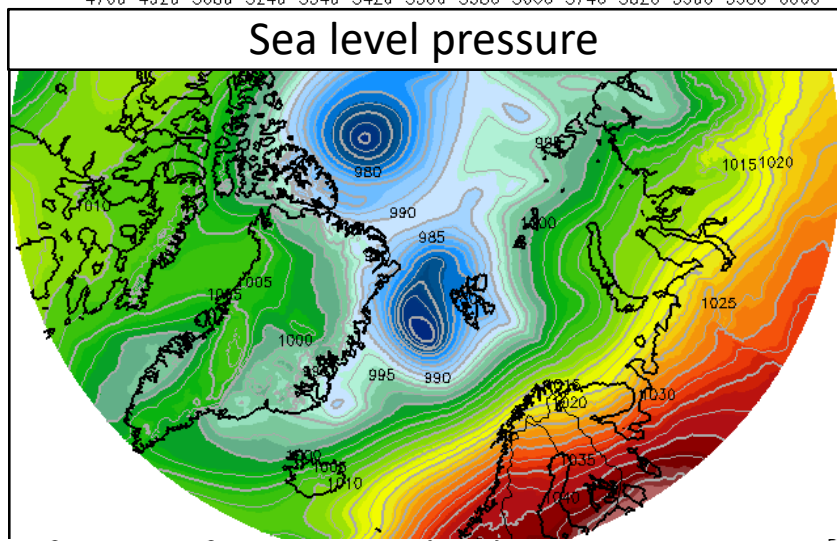
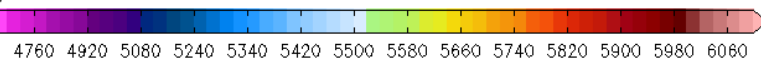


Sat, 2022-03-19 12 UTC (+156h)



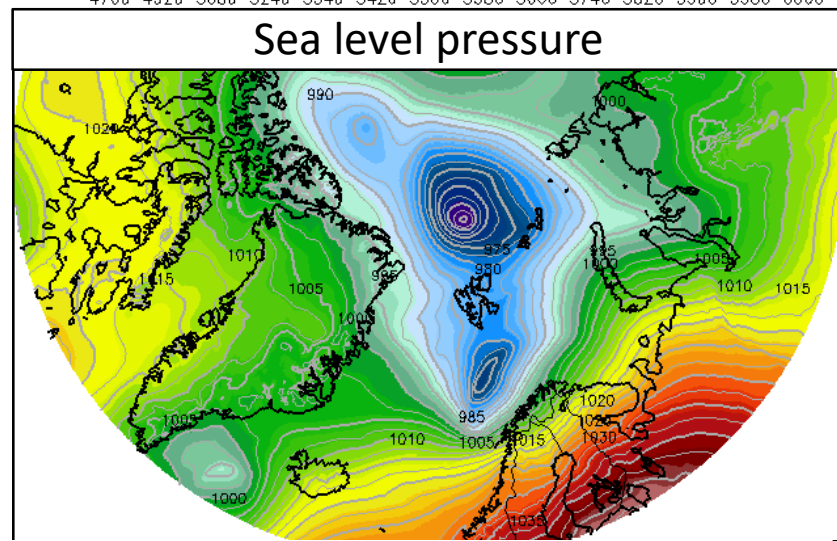
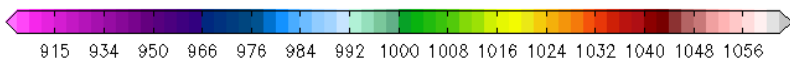
Geopotentielle Höhe, 500hPa (m)

Fr. 18.03.2022, 13:0



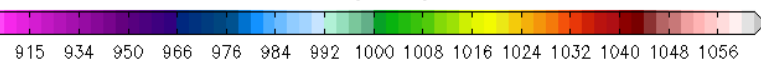
Luftdruck auf Meereshöhe (hPa)

Fr. 18.03.2022, 13:0



Luftdruck auf Meereshöhe (hPa)

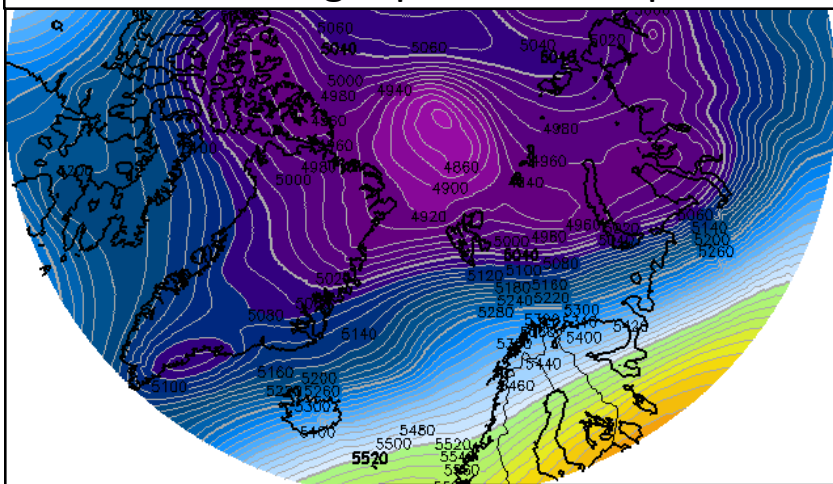
Fr. 18.03.2022, 13:0



Sun, 2022-03-20 12 UTC (+180h)

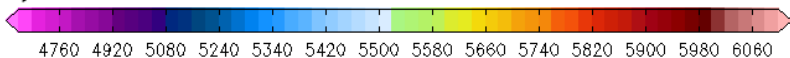
Mon, 2022-03-21 12 UTC (+204h)

500 hPa geopot. and temp.

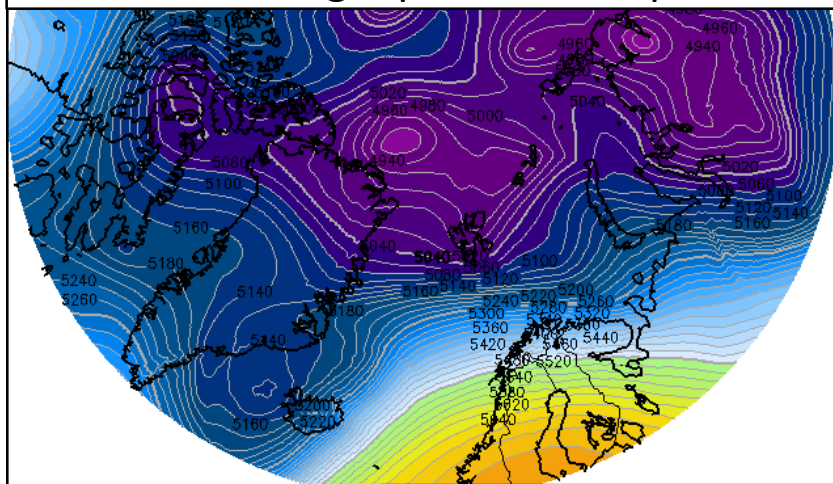


Geopotentielle Höhe, 500hPa (m)

Fr. 18.03.2022, 13:C

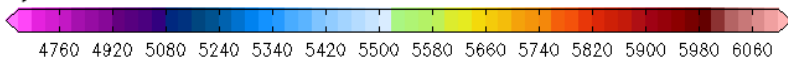


500 hPa geopot. and temp.

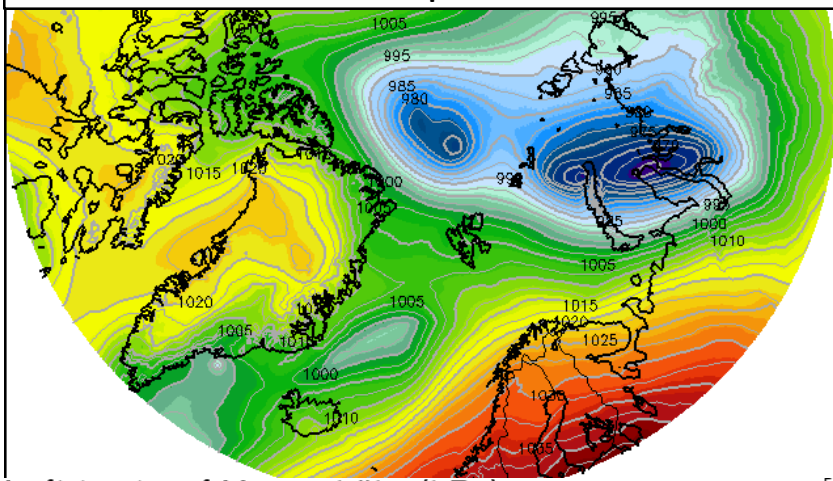


Geopotentielle Höhe, 500hPa (m)

Fr. 18.03.2022, 13:C

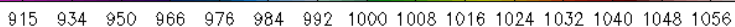


Sea level pressure

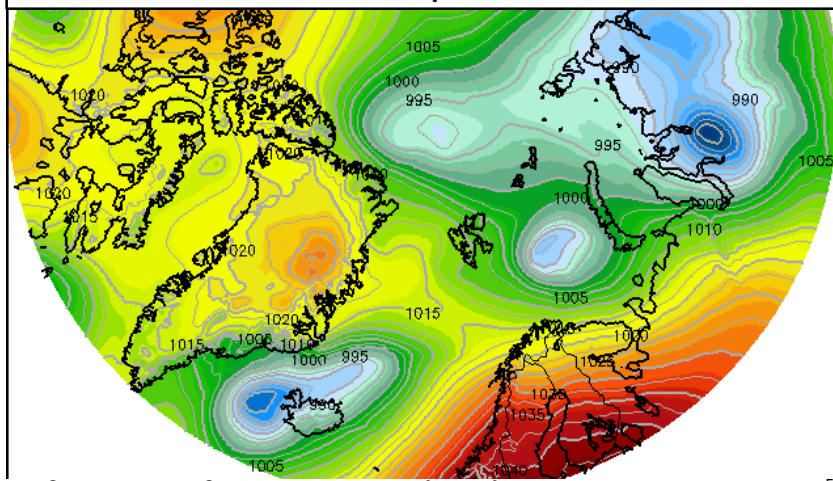


Luftdruck auf Meereshöhe (hPa)

Fr. 18.03.2022, 13:C

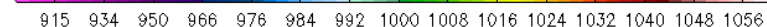


Sea level pressure



Luftdruck auf Meereshöhe (hPa)

Fr. 18.03.2022, 13:C



Summary

Summary: Weather Briefing 2022-03-13

- **Overall:**
 - Atmospheric River (AR) followed by mixed meridional/zonal flow
 - Colder/drier behind AR
- **Monday, 2022-03-14:**
 - Strong WAI from secondary cyclone
 - Warms Barents Sea over next days
- **Tuesday, 2022-03-15:**
 - AR in Fram Strait
 - Colder/drier behind
- **Wednesday, 2022-03-16:**
 - AR remainders intrude into Arctic
 - Southern end of AR off Norwegian coast
- **Thursday, 2022-03-17:**
 - Colder air over North Atlantic and Fram Strait
 - Secondary cyclone moves north-eastwards

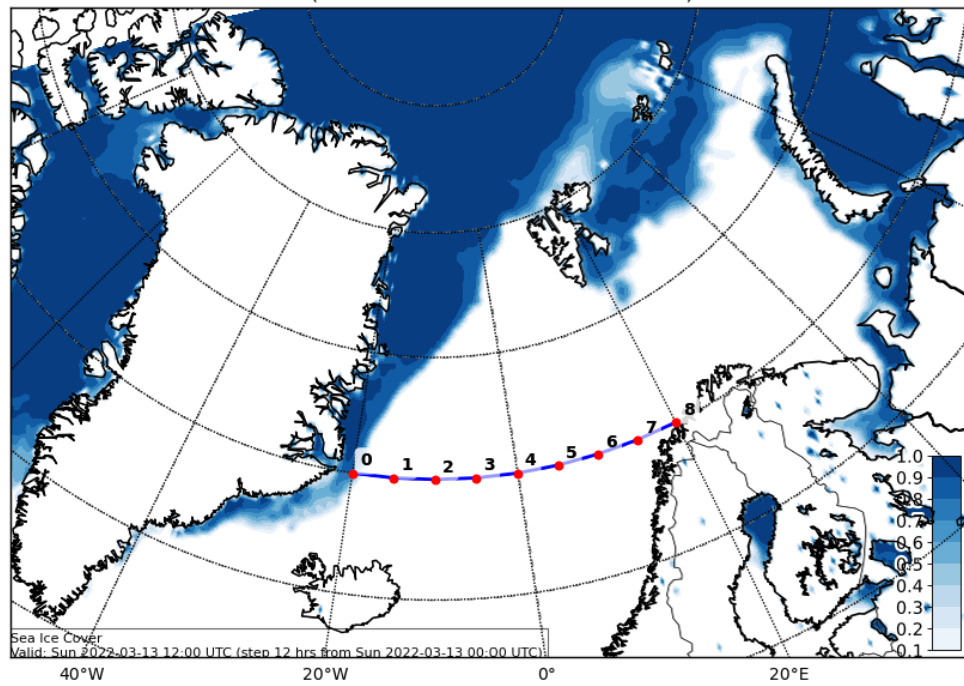
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Sea ice

Sea Ice

Sun, 2022-03-13 12 UTC

Sea Ice Cover Fraction (0-1) (CONT)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-13T00:00:00Z)



Fri, 2022-03-18 00 UTC

Sea Ice Cover Fraction (0-1) (CONT)
Valid: 2022-03-18T00:00:00Z (initialisation: 2022-03-13T00:00:00Z)

