Weather briefing HALO-(AC)³

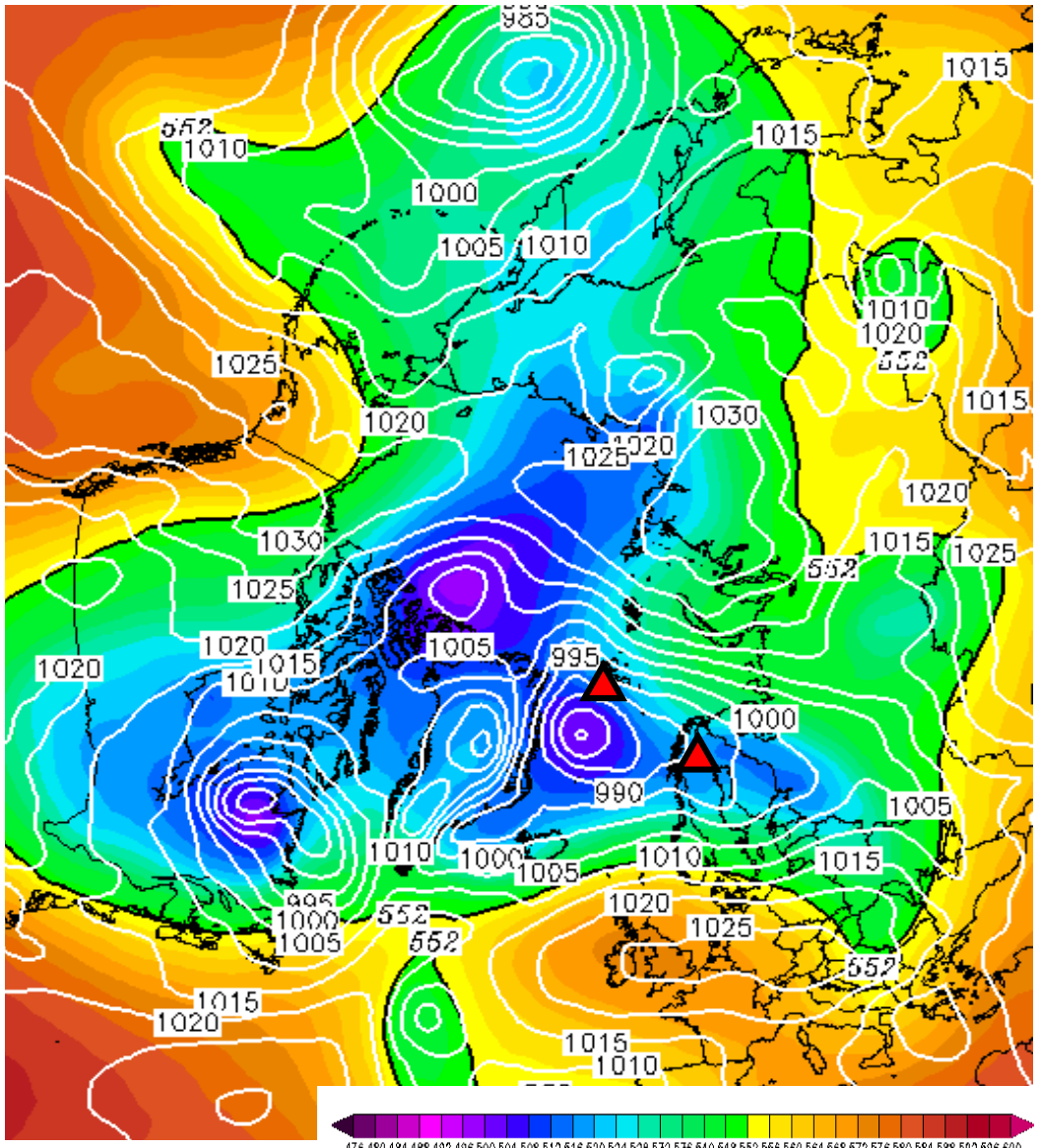
21 March 2021

Warm Air Intrusions
16 – 19 April 2020

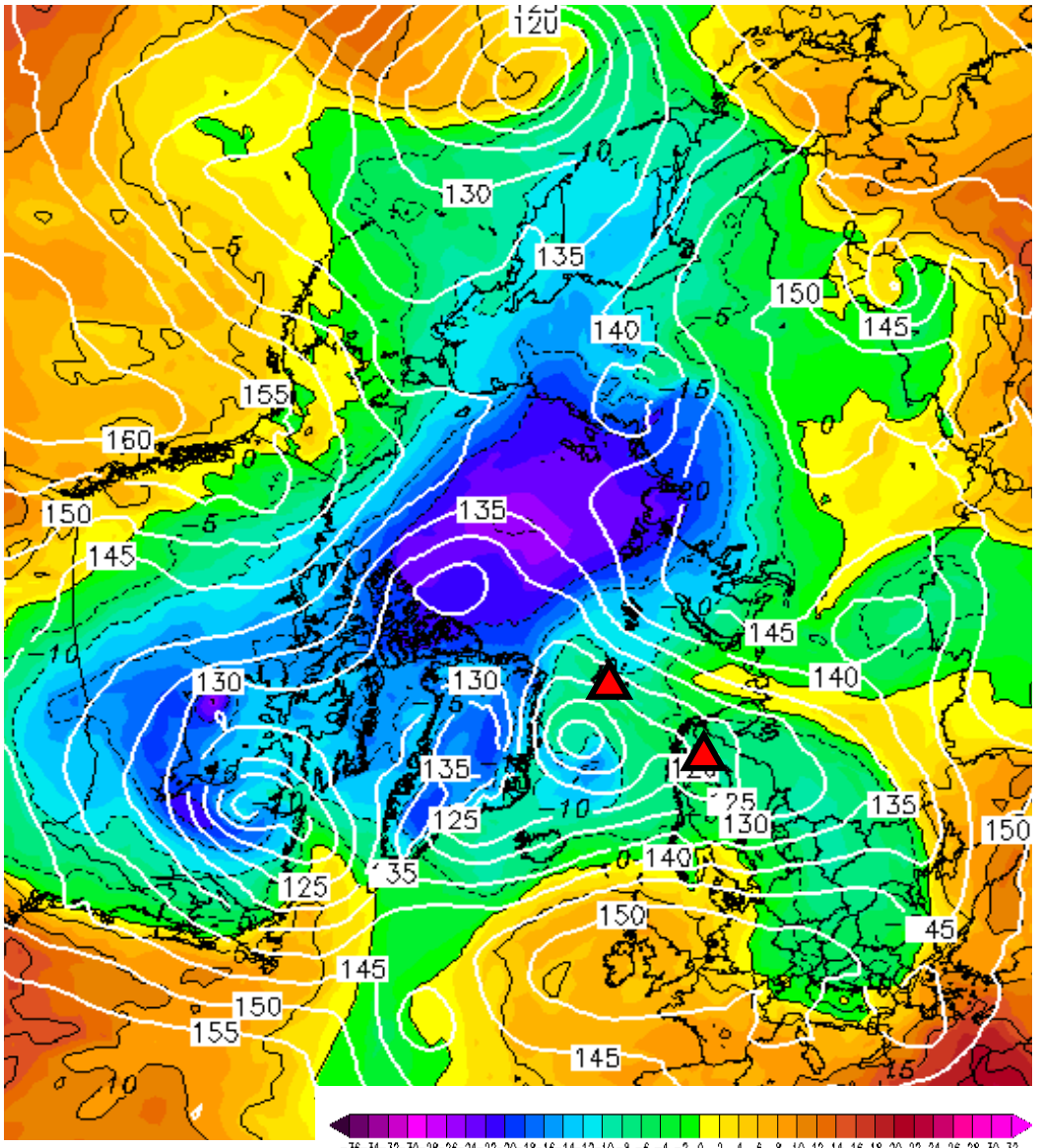
16 April 2020

General large-scale weather (GFS analysis): 15 April 2020, 00 UTC

500hPa Geopotential & Surface Pressure

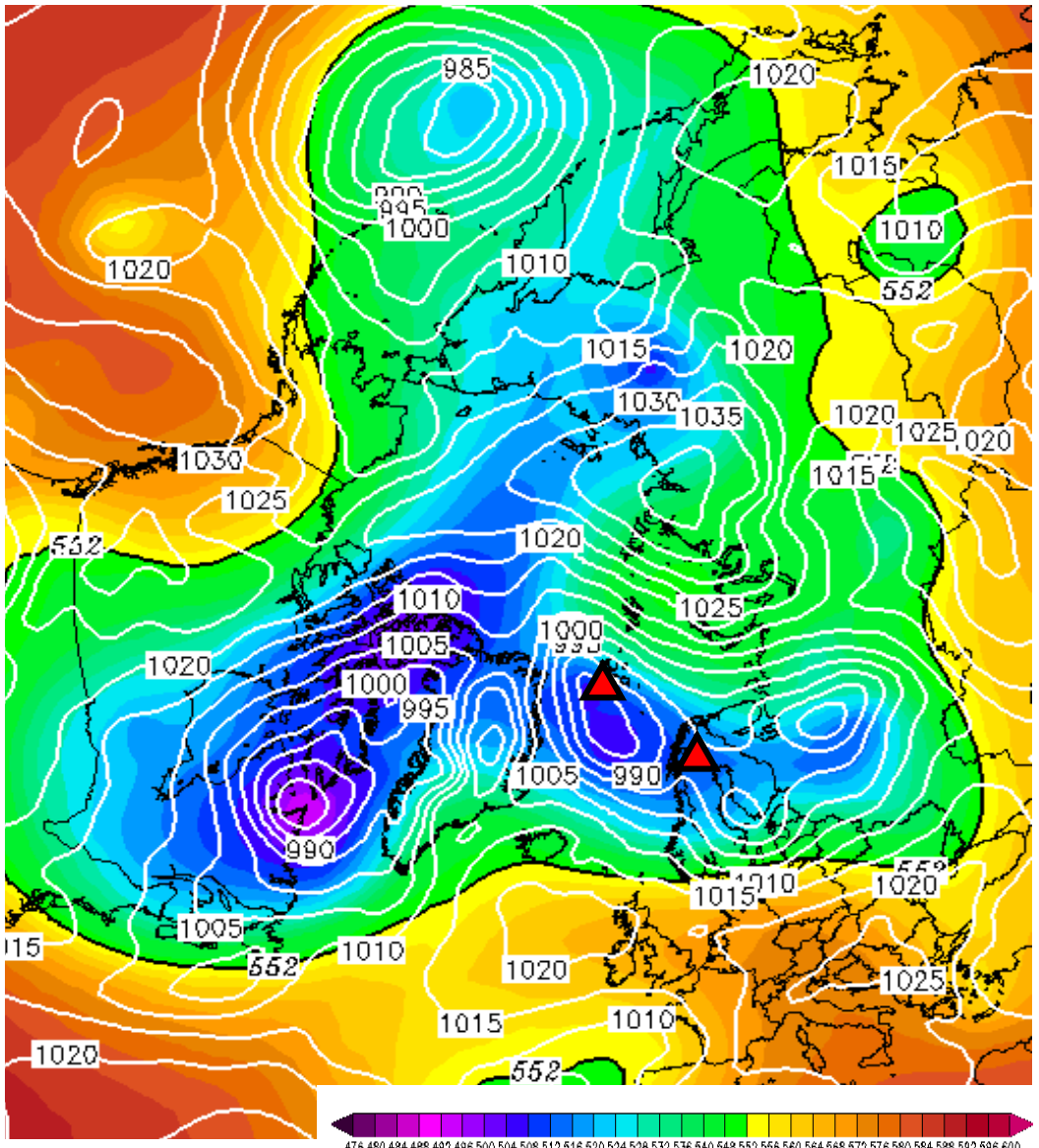


850hPa Geopotential & Temperature

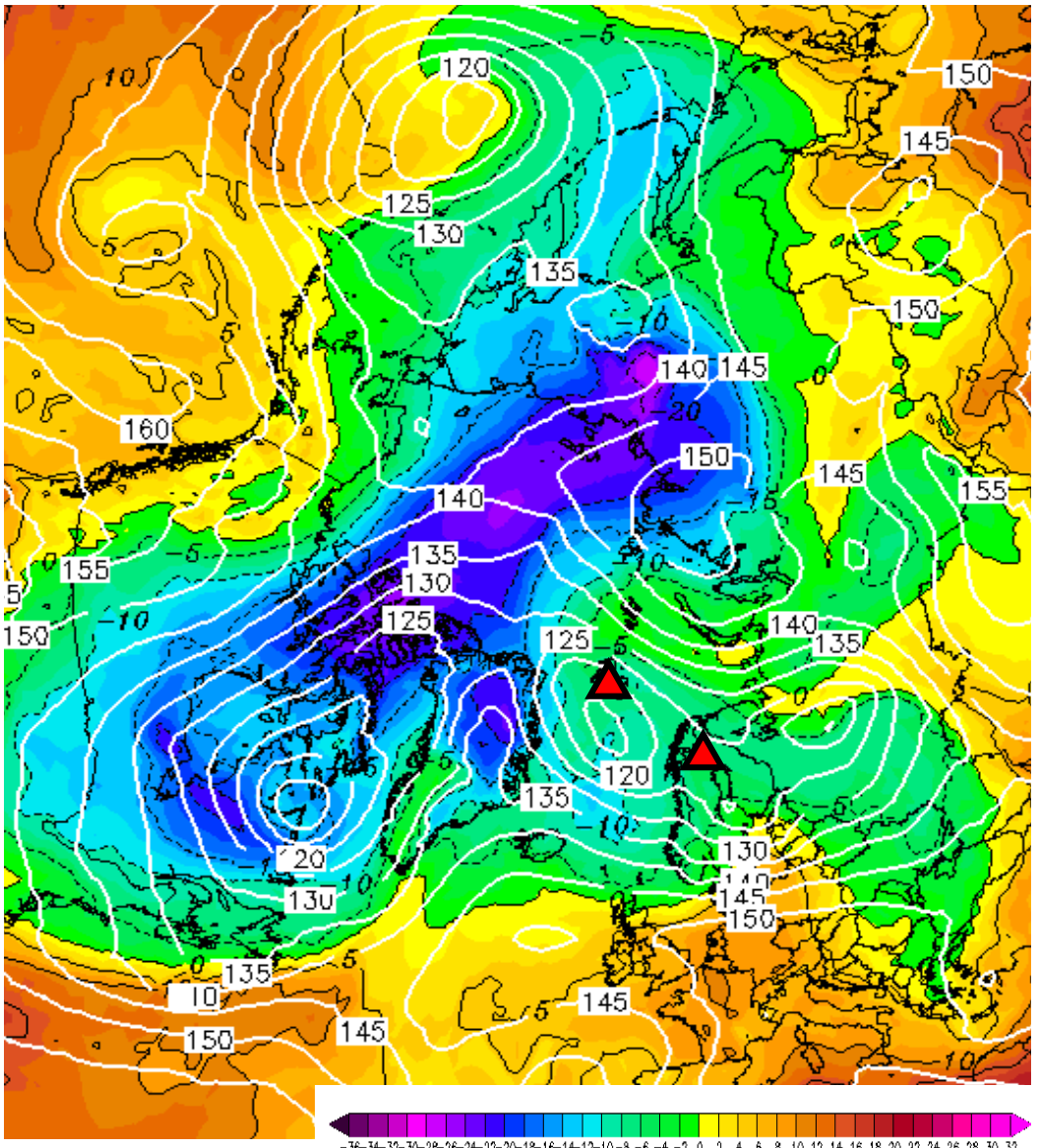


General large-scale weather (GFS analysis): 16 April 2020, 00 UTC

500hPa Geopotential & Surface Pressure

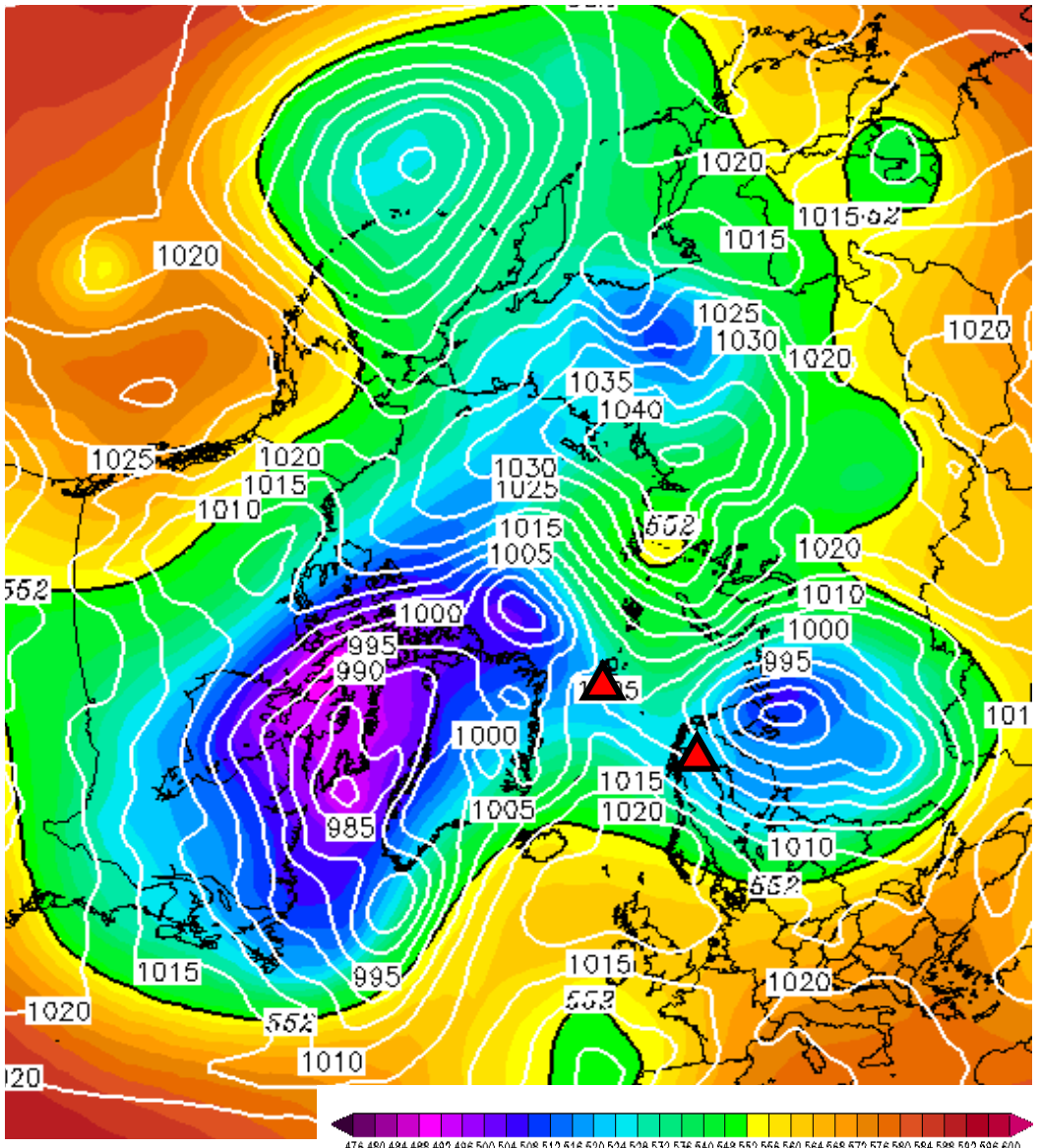


850hPa Geopotential & Temperature

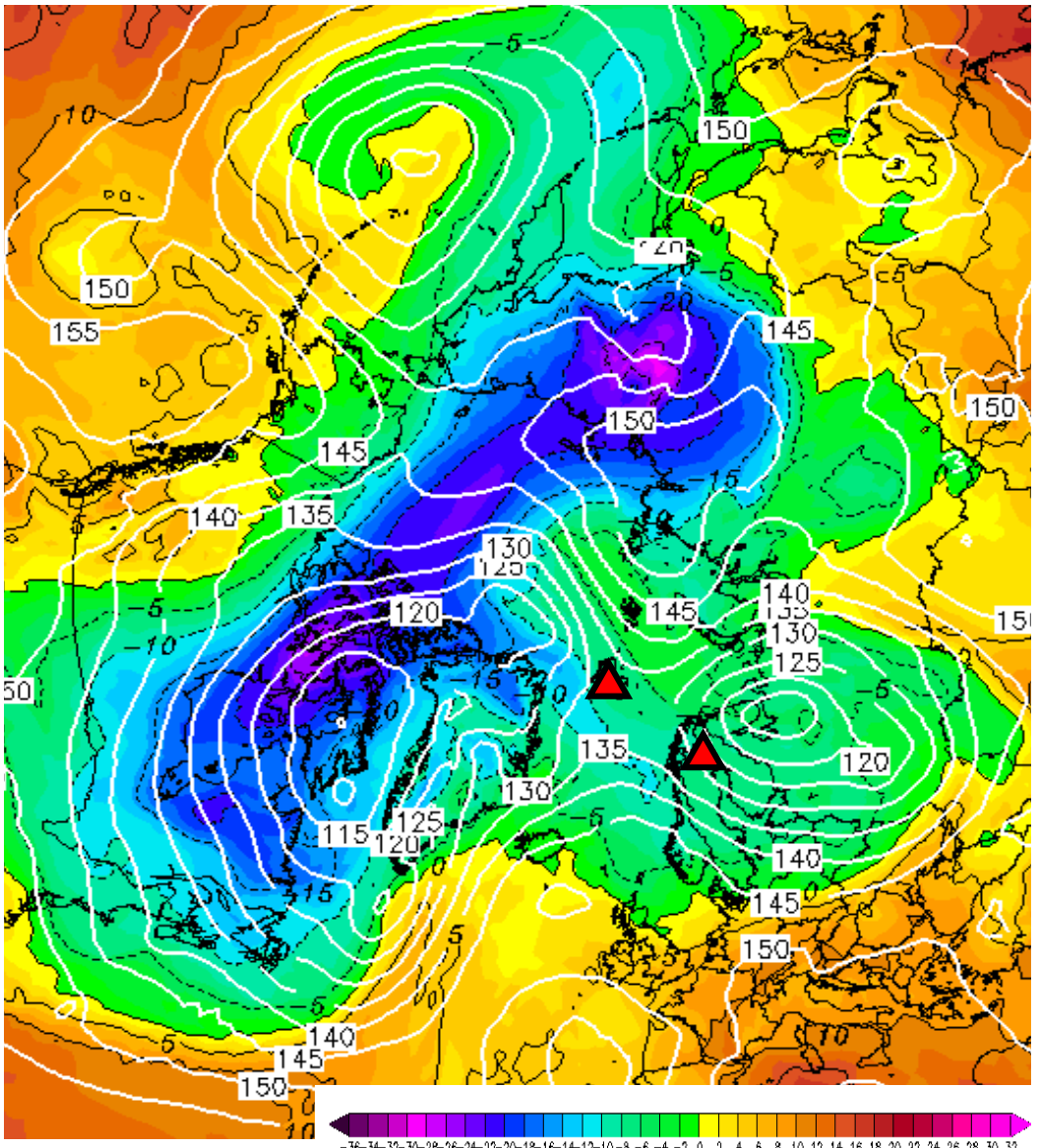


General large-scale weather (GFS analysis): 17 April 2020, 00 UTC

500hPa Geopotential & Surface Pressure

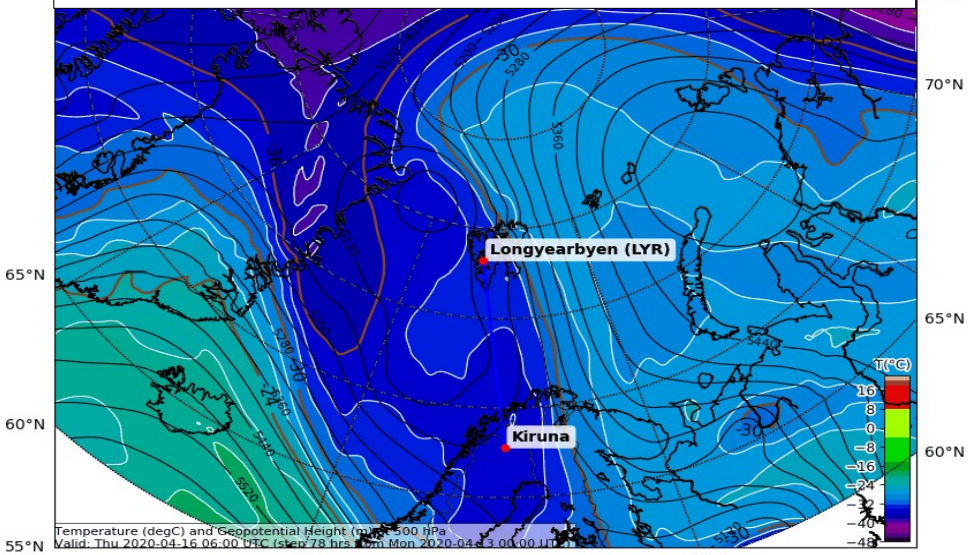


850hPa Geopotential & Temperature

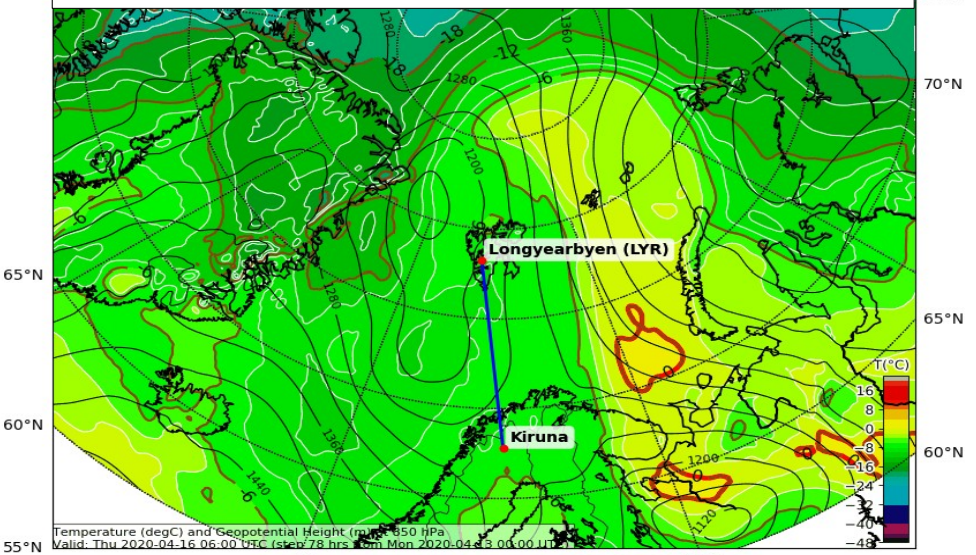


General weather situation (ECMWF): 16/04/20, 06 UTC

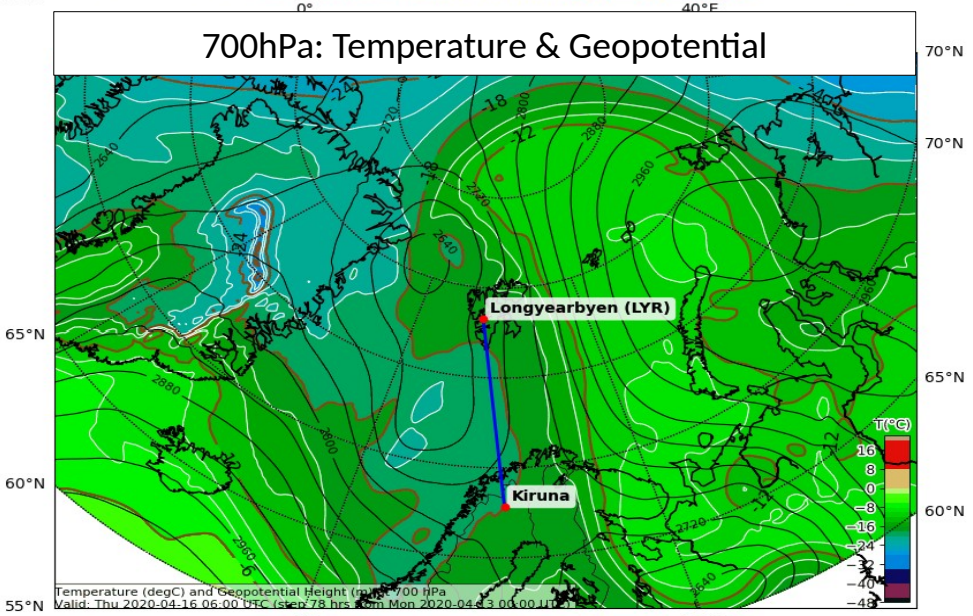
500hPa: Temperature & Geopotential



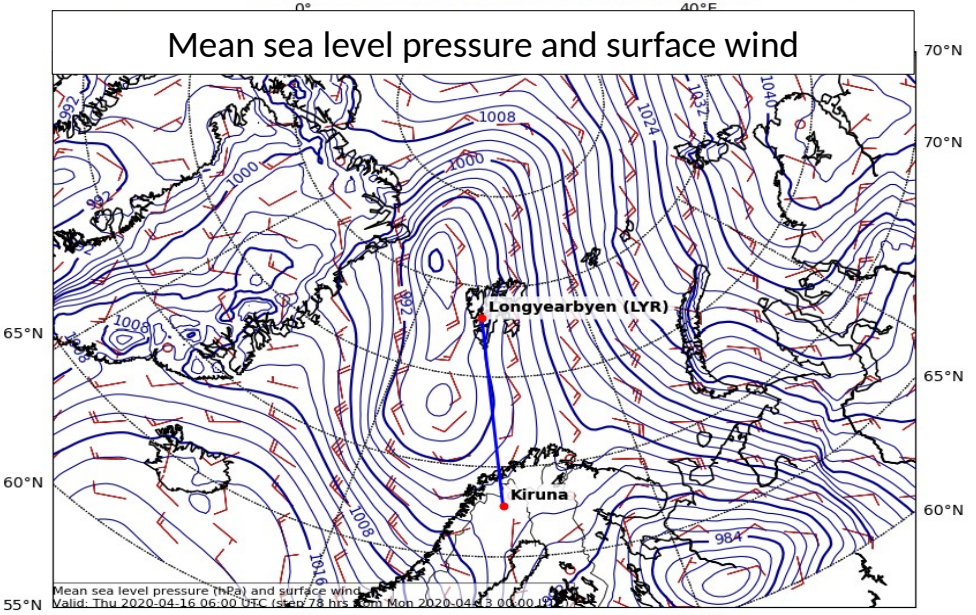
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

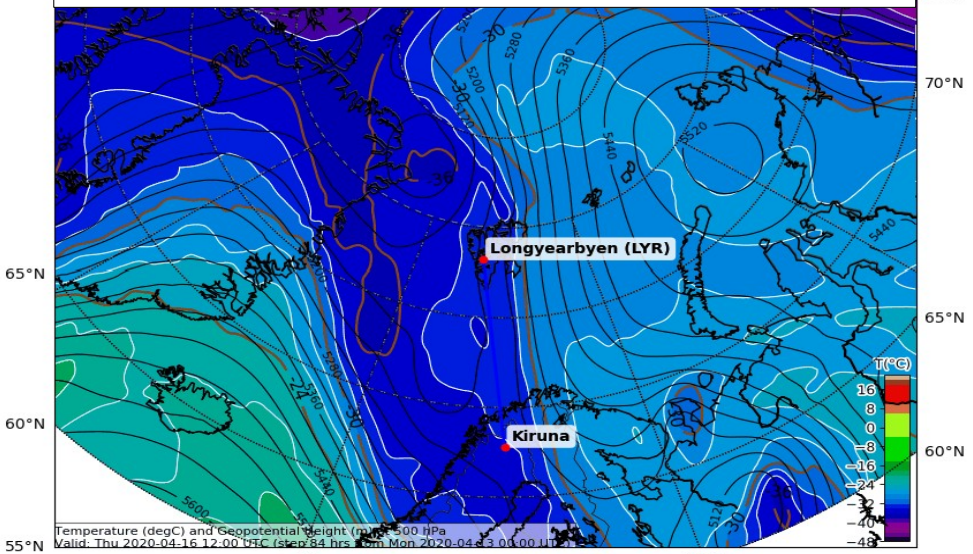


Mean sea level pressure and surface wind

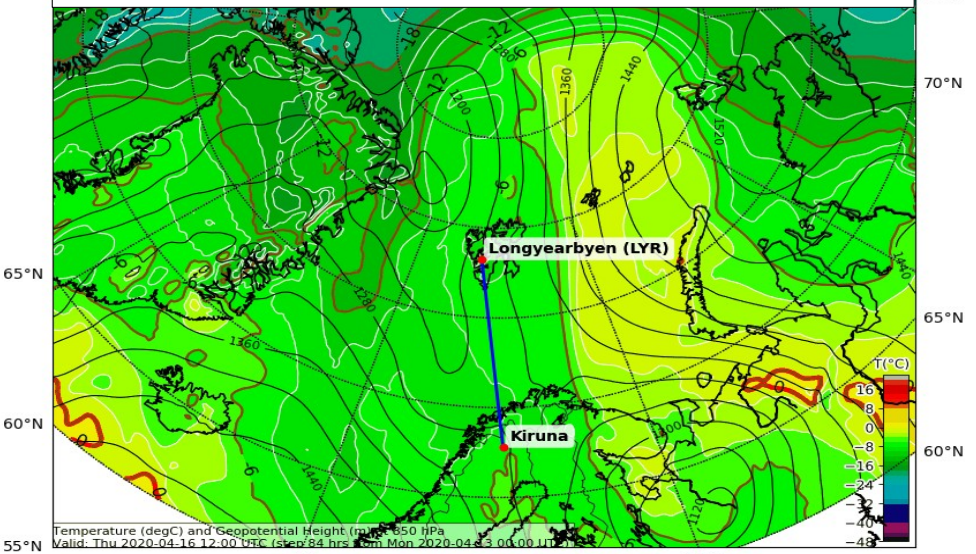


General weather situation (ECMWF): 16/04/20, 12 UTC

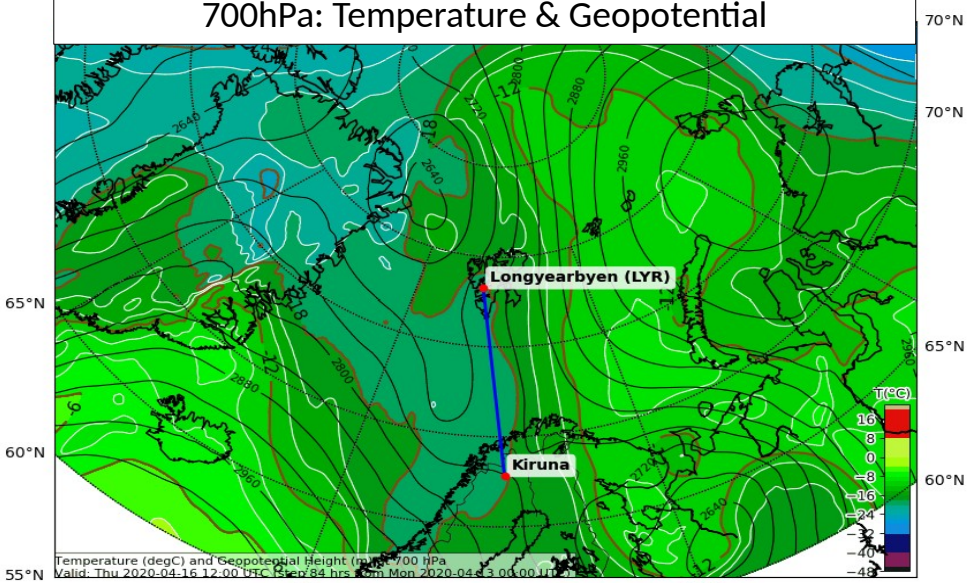
500hPa: Temperature & Geopotential



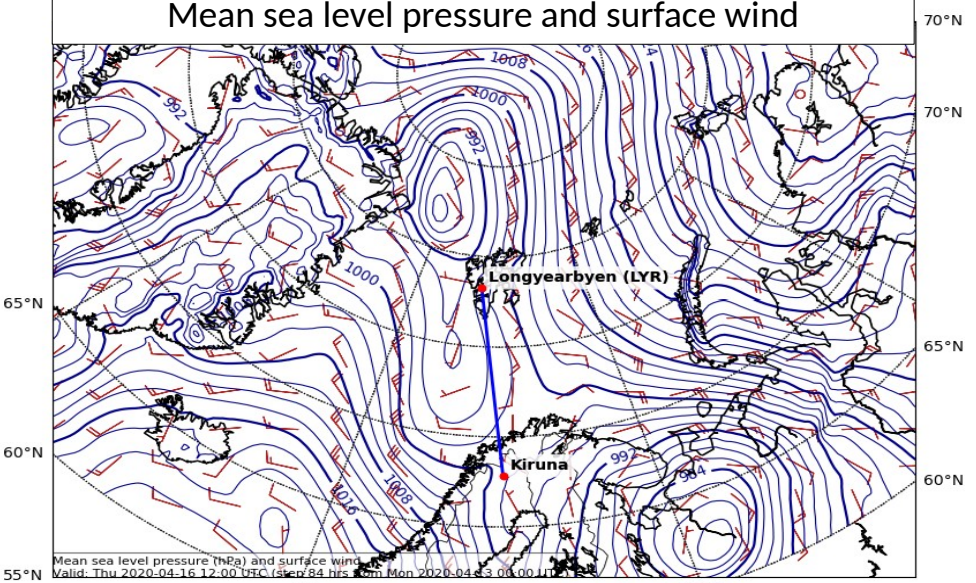
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

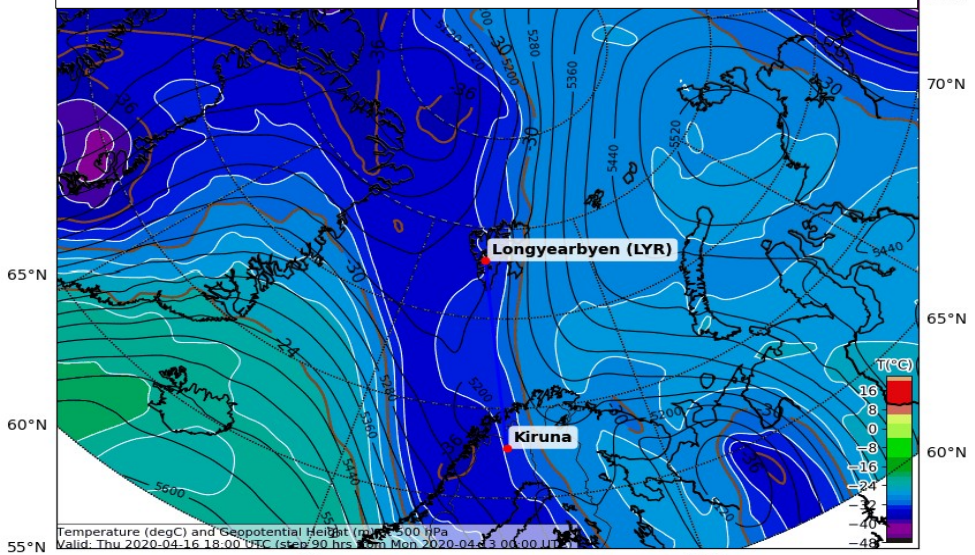


Mean sea level pressure and surface wind

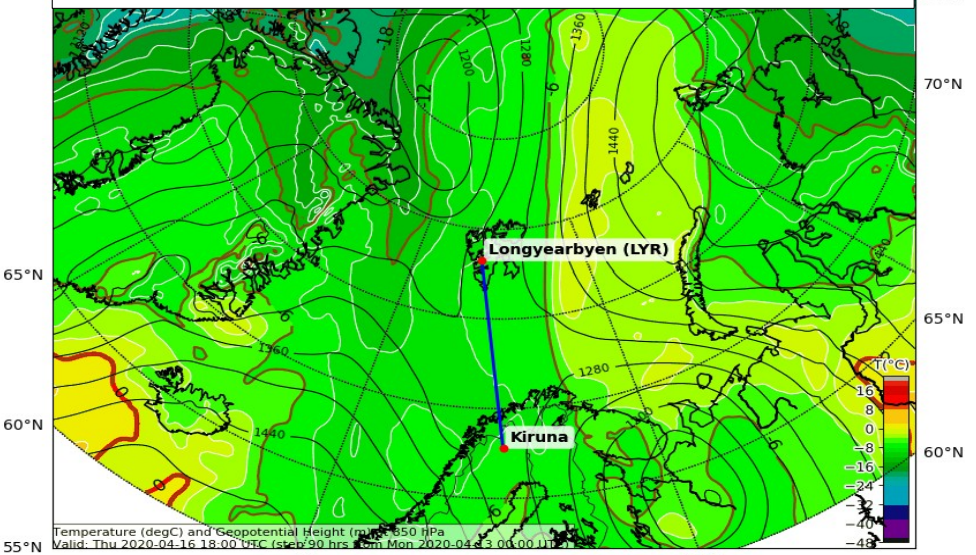


General weather situation (ECMWF): 16/04/20, 18 UTC

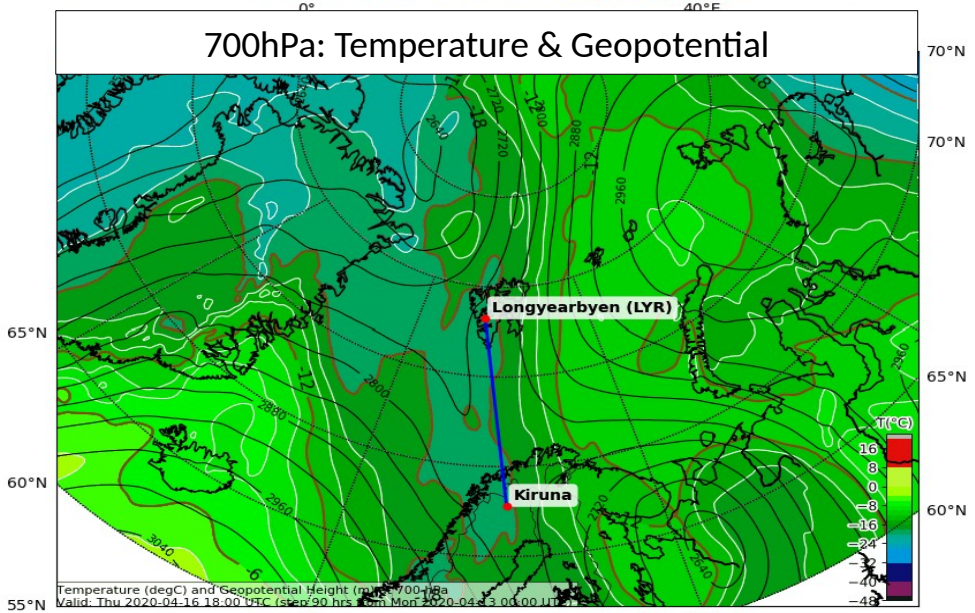
500hPa: Temperature & Geopotential



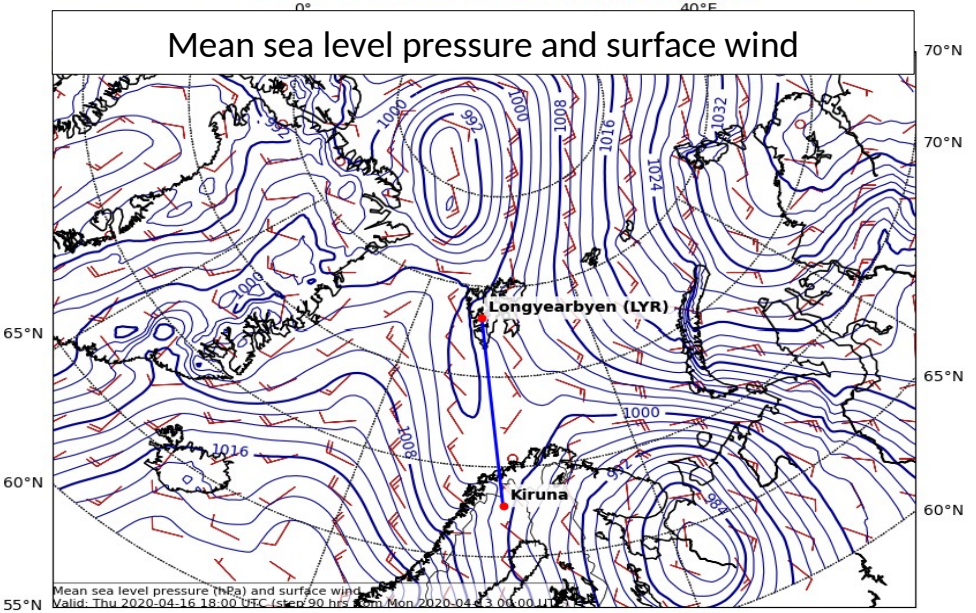
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

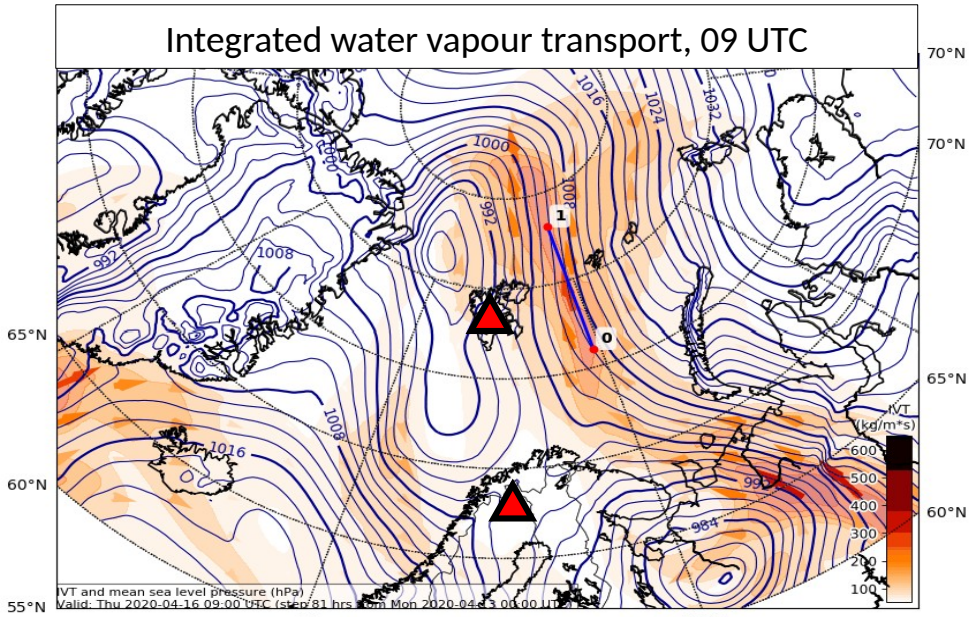


Mean sea level pressure and surface wind

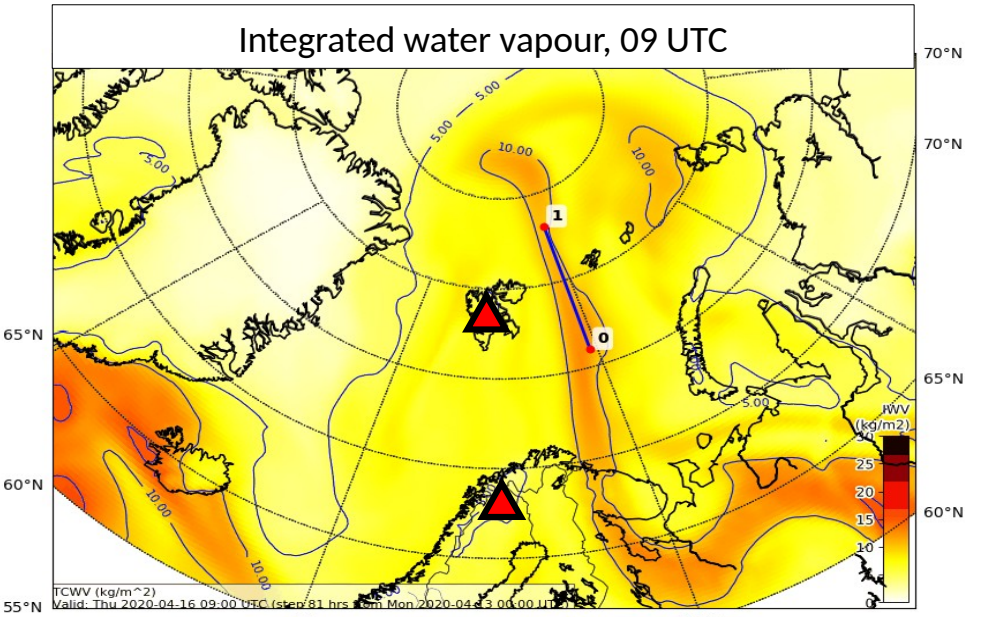


Integrated water vapour (ECMWF): 16/04/20, 09 & 15 UTC

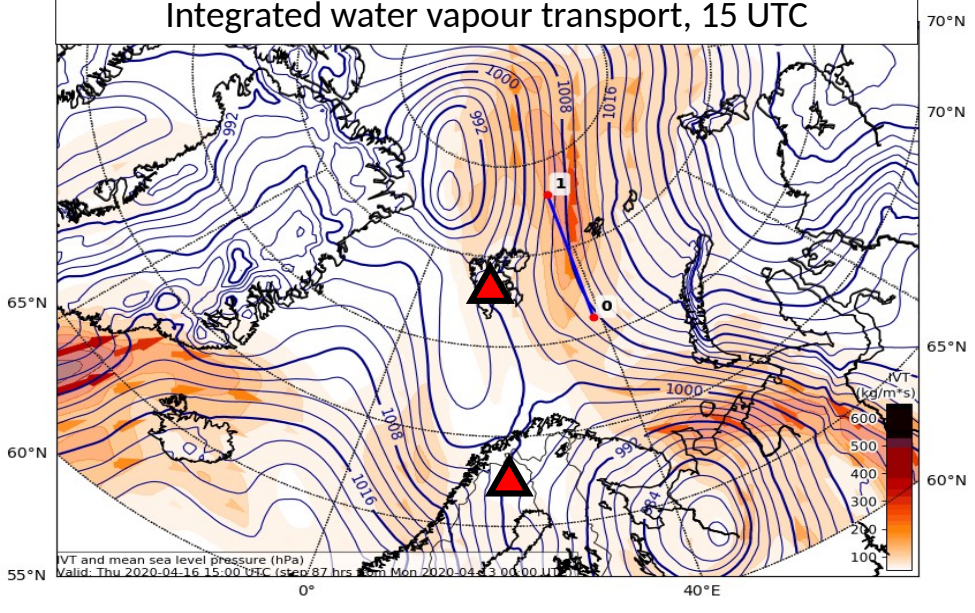
Integrated water vapour transport, 09 UTC



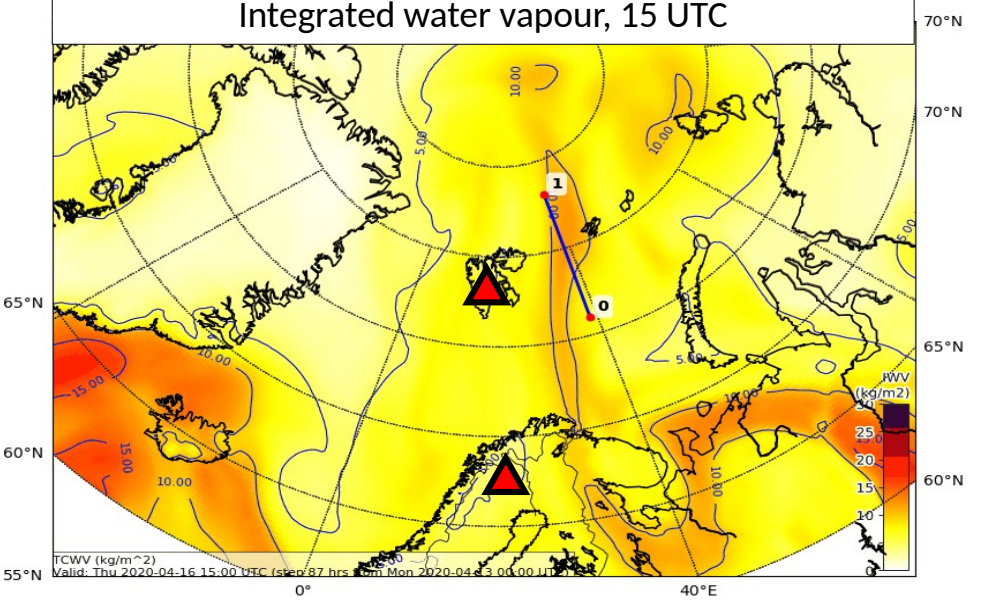
Integrated water vapour, 09 UTC



Integrated water vapour transport, 15 UTC

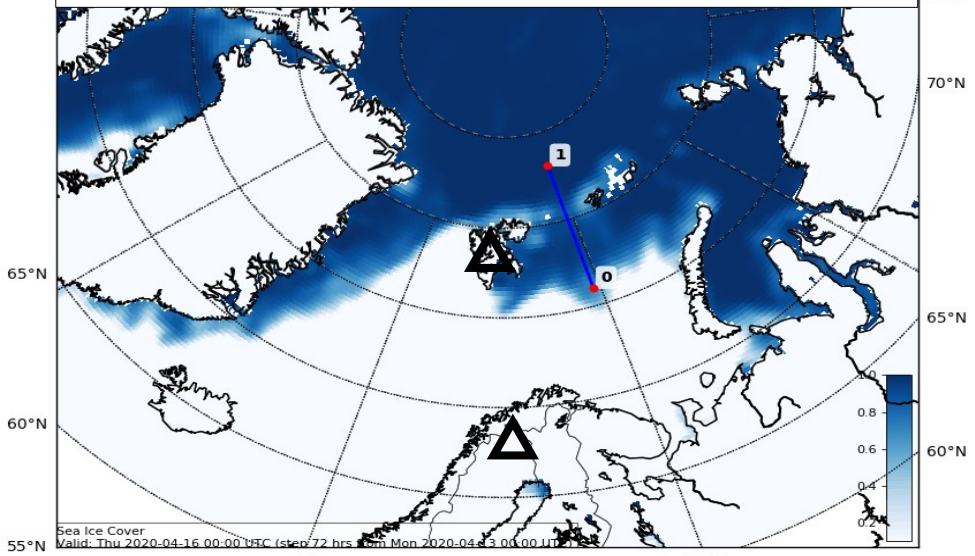


Integrated water vapour, 15 UTC

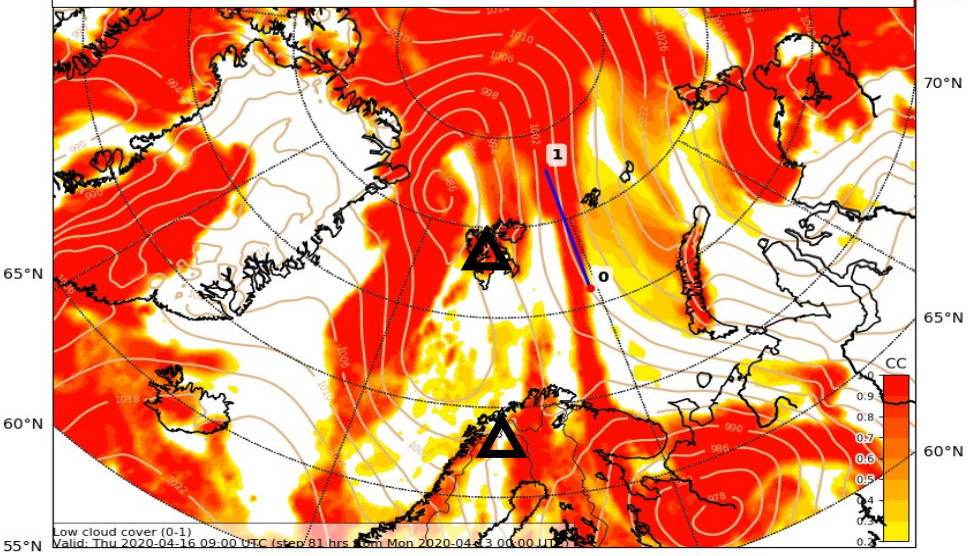


Sea Ice cover, Low cloud cover & Total cloud cover (ECMWF): 16/04/20, 09 UTC

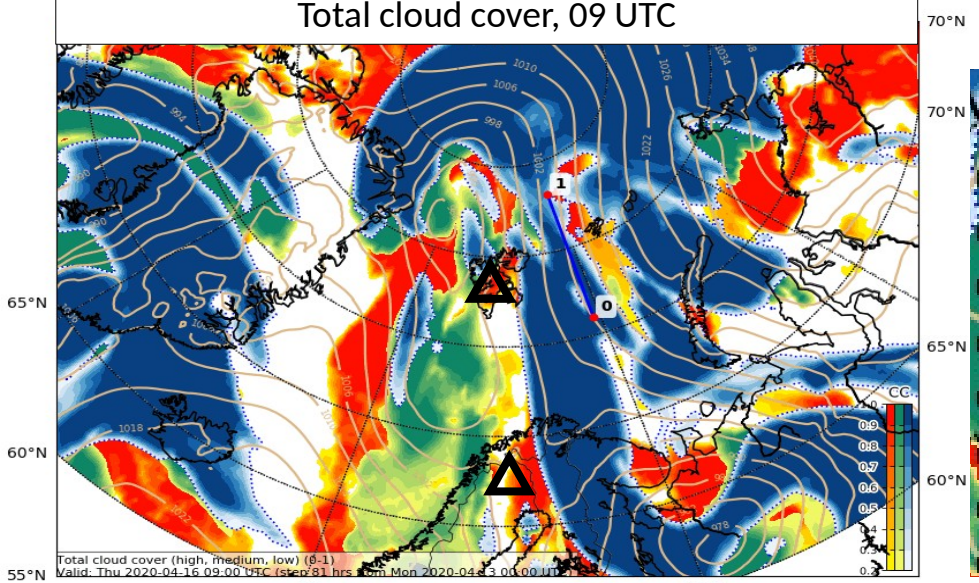
Sea ice concentration

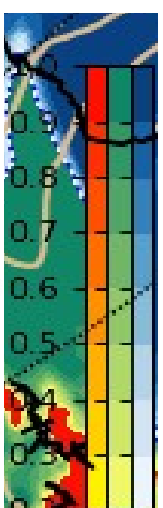


Low cloud cover, 09 UTC



Total cloud cover, 09 UTC

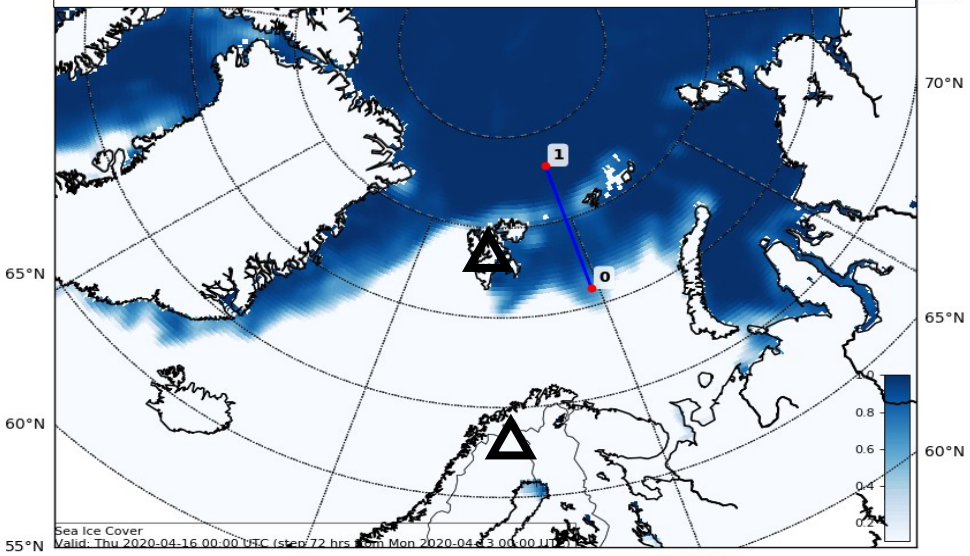




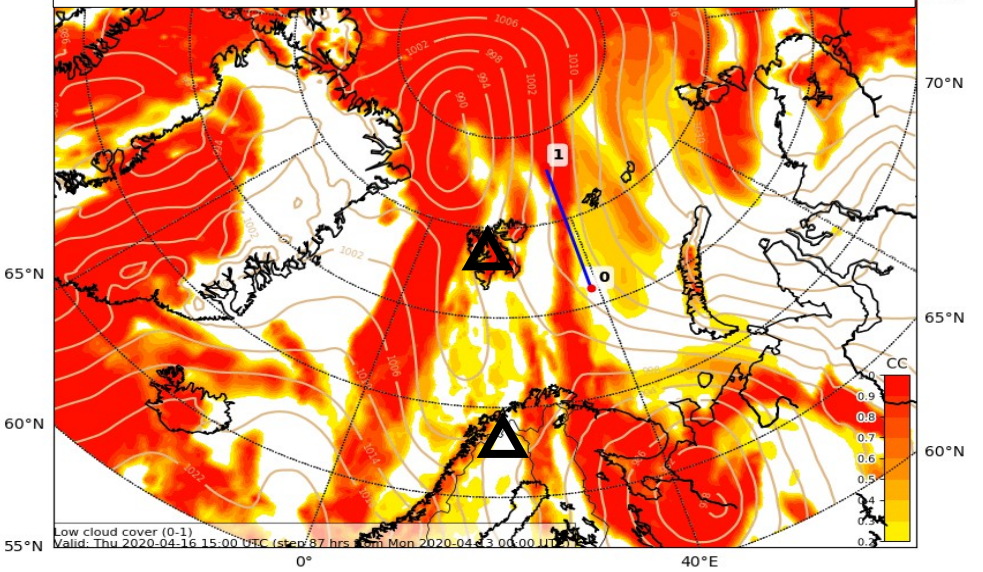
Red: Low cloud cover
Green: Medium cloud cover
Blue: High cloud cover

Sea Ice cover, Low cloud cover & Total cloud cover (ECMWF): 16/04/20, 15 UTC

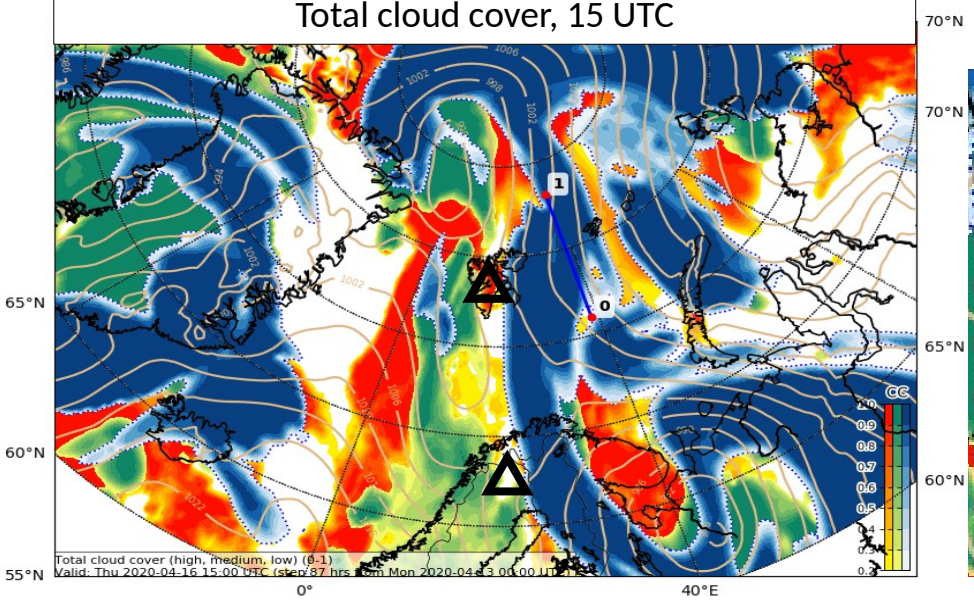
Sea ice concentration

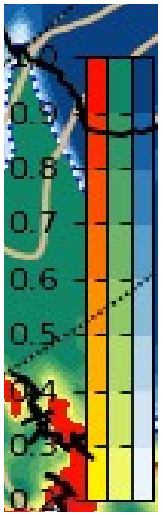


Low cloud cover, 15 UTC



Total cloud cover, 15 UTC





Red: Low cloud cover

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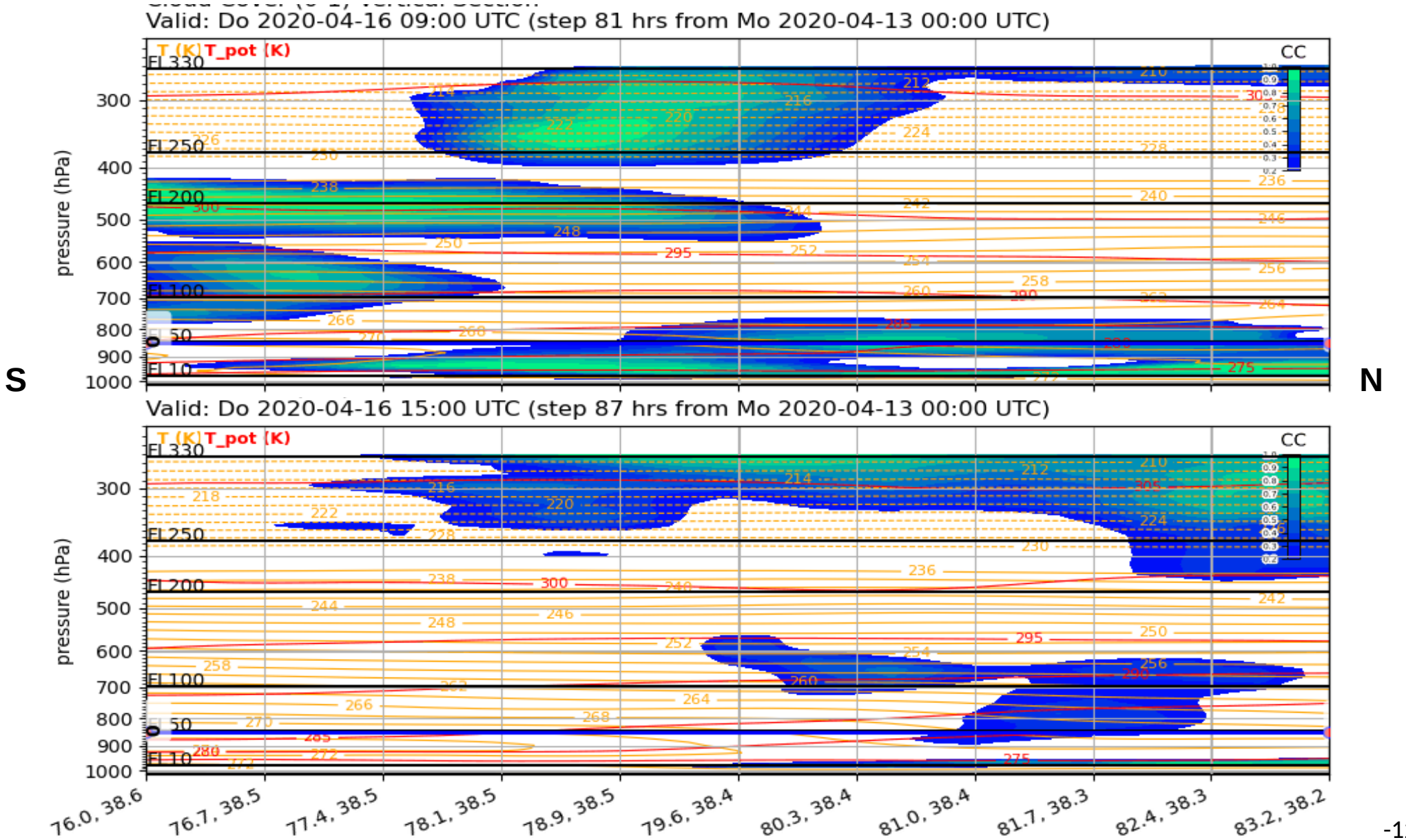
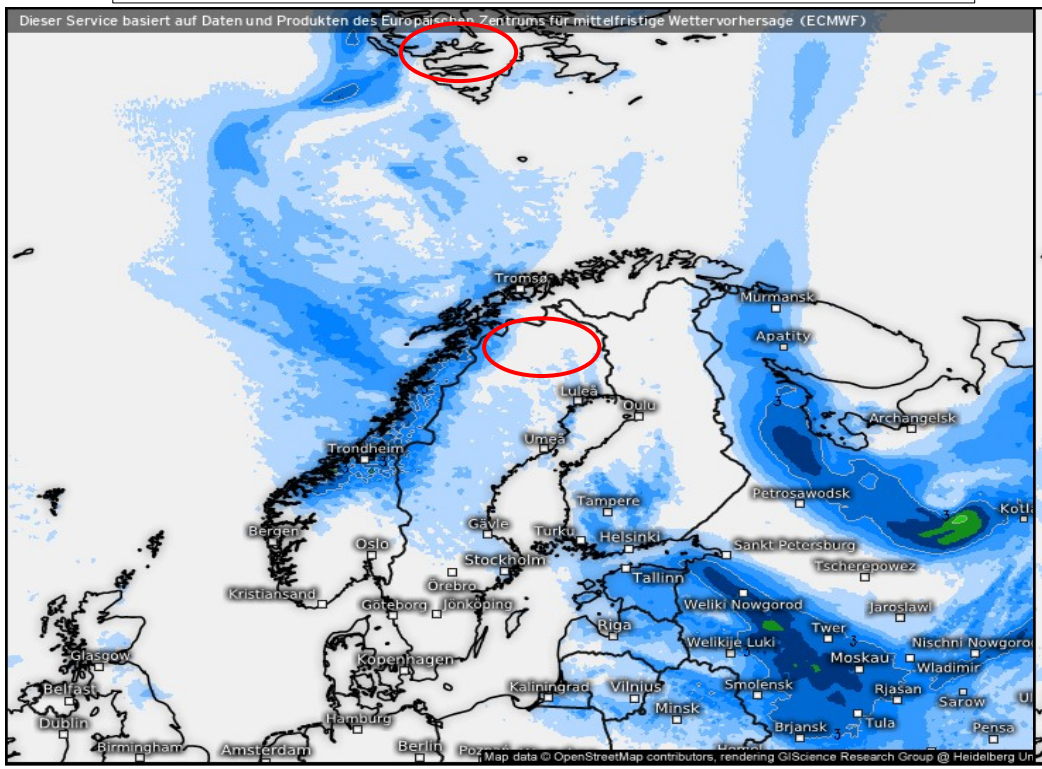
Cloud cover – Vertical cross sections (ECMWF): 16/04/20, 09 & 15 UTC



6h Precipitation: 16/04/20

Precipitation ECMWF: 09 – 15Z



Niederschlagssumme, 6std (mm)

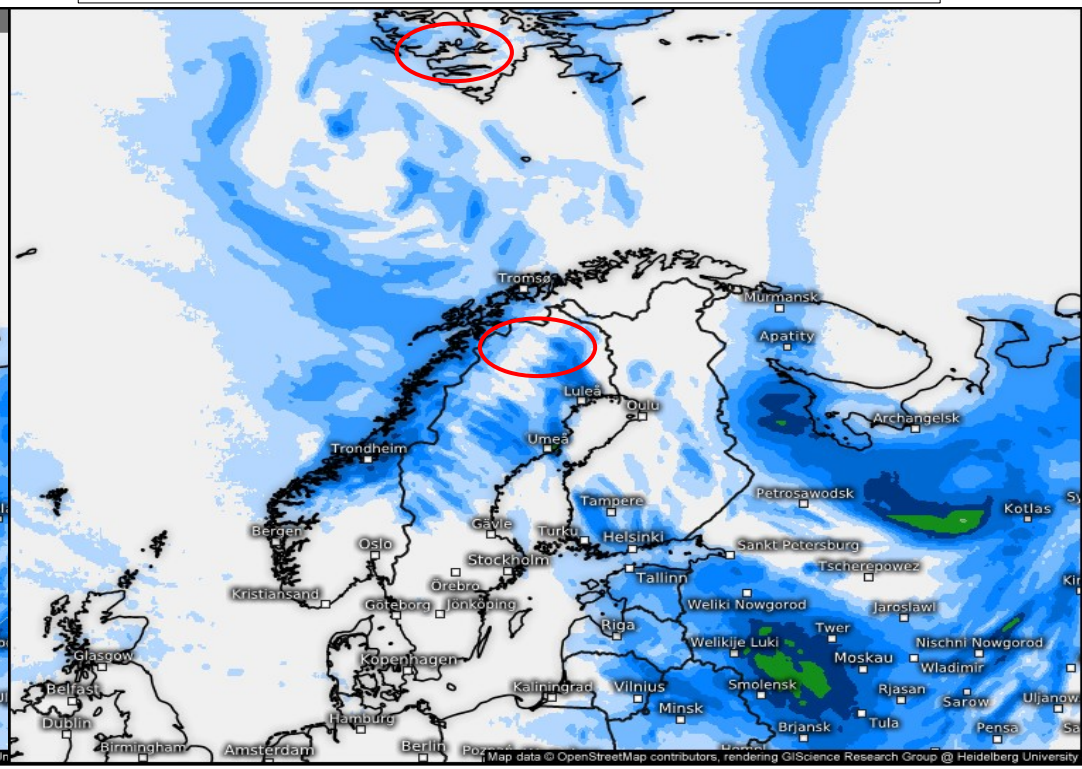
Prognose
Do. 16.04.2020, 17:00 Uhr M

0.1 0.5 1 2 3 5 7 10 15 20 25 30 35 40 45 50 60 70 80 90 100 125 150 200 3

Rasterkarte 20.1 E, 66.2 N (Zoomstufe 1 / Auflösung 5km)
ECMWF/Global Euro HD vom 15.04.2020/00z

ECMWF kachelmannwetter.

Precipitation HIRLAM-FMI: 09 – 15Z



Niederschlagssumme, 6std (mm)

Prognose für
Do. 16.04.2020, 17:00 Uhr MESZ

0.1 0.5 1 2 3 5 7 10 15 20 25 30 35 40 45 50 60 70 80 90 100 125 150 200 300

Rasterkarte 20.1 E, 66.2 N (Zoomstufe 1 / Auflösung 5km)
Europa Finnish HD (2 Tage) vom 15.04.2020/00z

HD kachelmannwetter.com
Daten: CC-BY FMI Open Data

METAR and TAF for LYR (left) and Kiruna (right)

16/04/20 06:50 UTC->

METAR ENSB
160650Z 12010KT 9999 FEW020 BKN040
03/M03 Q0990 NOSIG
RMK WIND 1400FT 14012KT

16/04/20 07:50->

METAR ESNQ
160650Z AUTO 21006KT 9999 NCD
M04/M09 Q0994 RESHUP REFZUP

16/04/20 05:00 UTC->

TAF ENSB
160500Z 1606/1706 13015KT 9999 FEW030
BECMG 1702/1704 VRB05KT

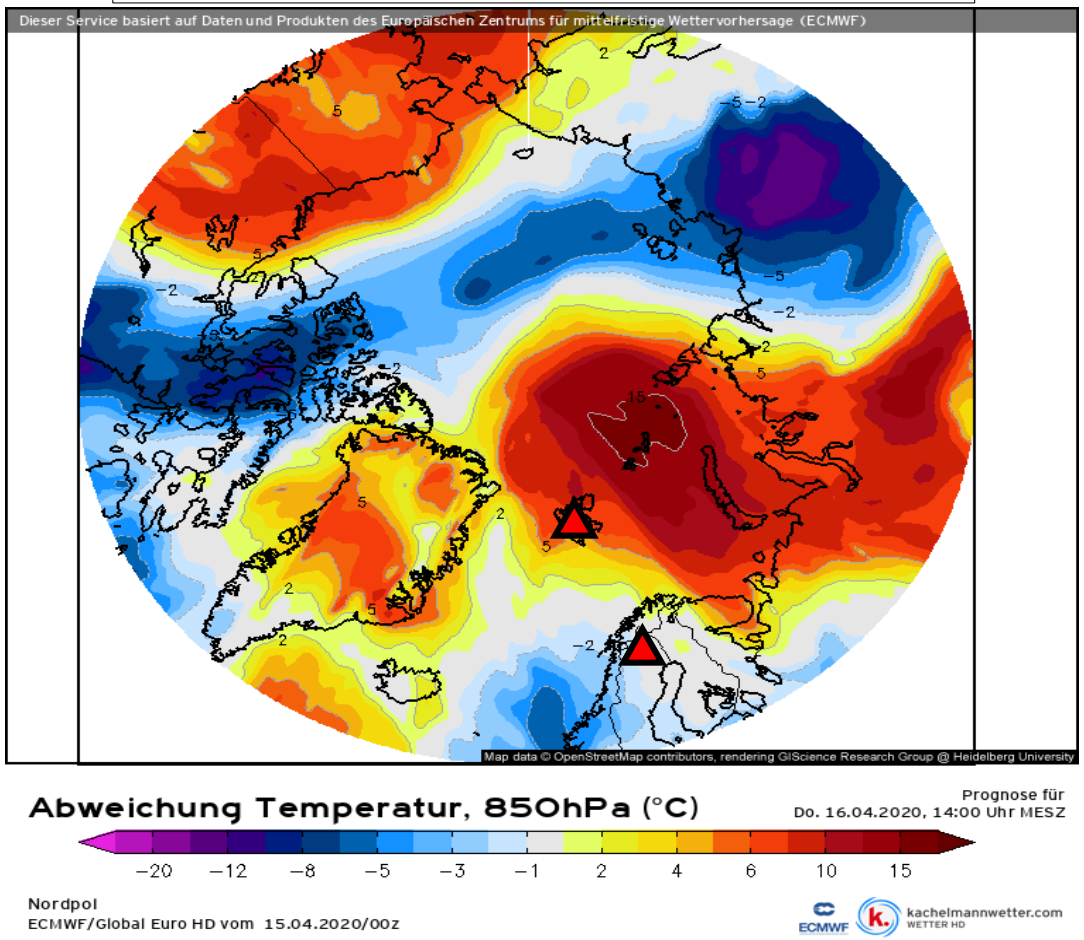
16/04/20 02:30 UTC->

TAF ESNQ
160230Z 1603/1606 VRB02KT CAVOK

https://aaltronav.eu/weather/metar/

Summary for 16 April 2020

T-Anomaly 850hPa: 16/04, 12 UTC



- Strongly southward directed trough with several lows W of Svalbard

  → strong WAI over Barents-/Kara-Sea incl. strong IVT

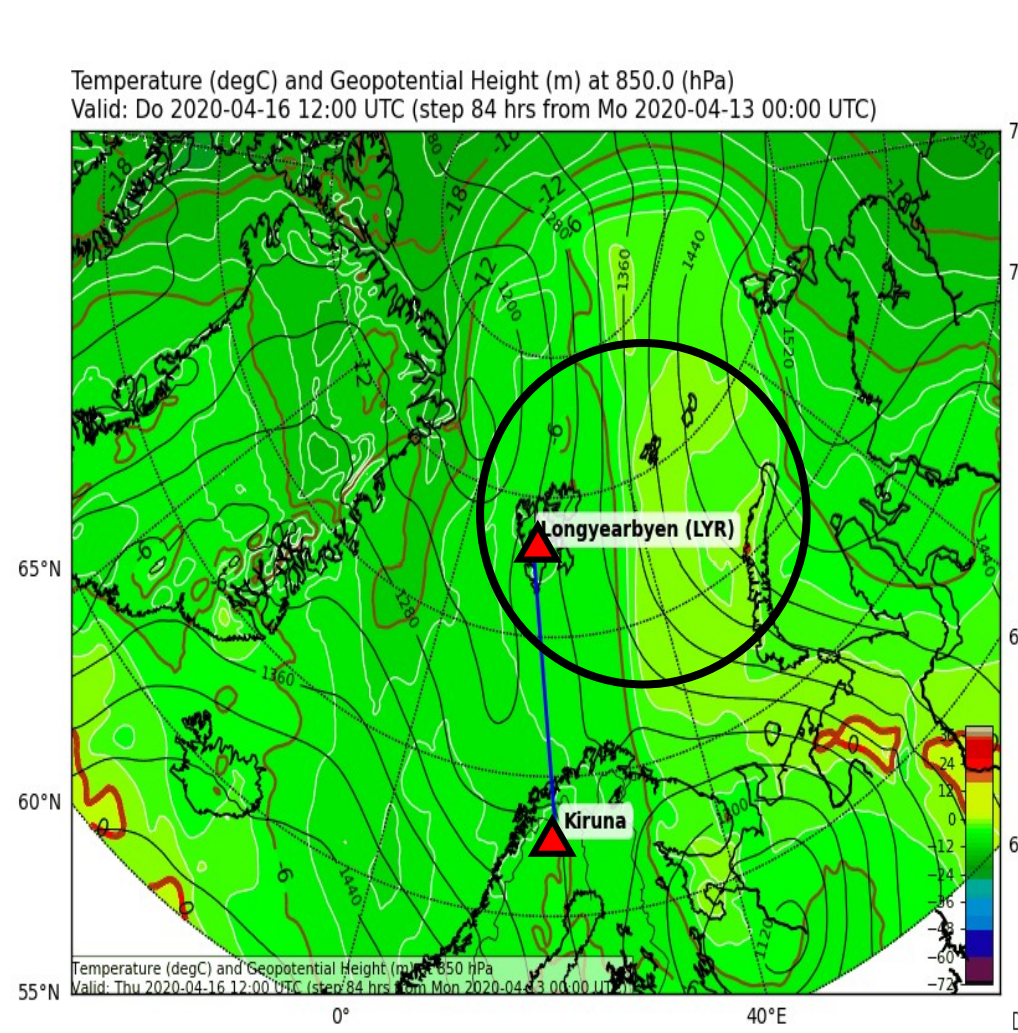
- Probably multiple cloud layers over sea ice in region of strongest IVT

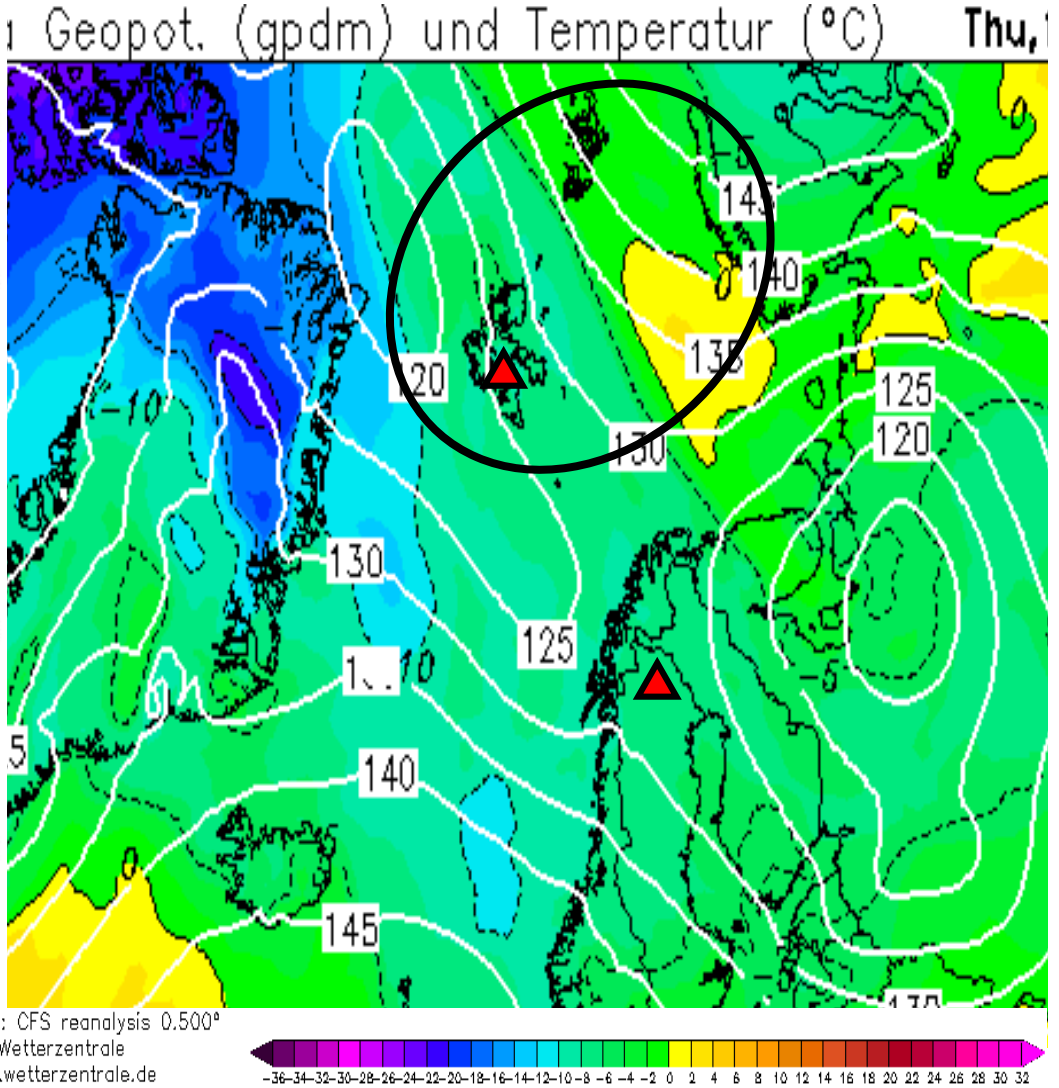
- Almost no signals of precipitation at both KIR and LYR
- TAF: no challenging conditions to be expected

Verification

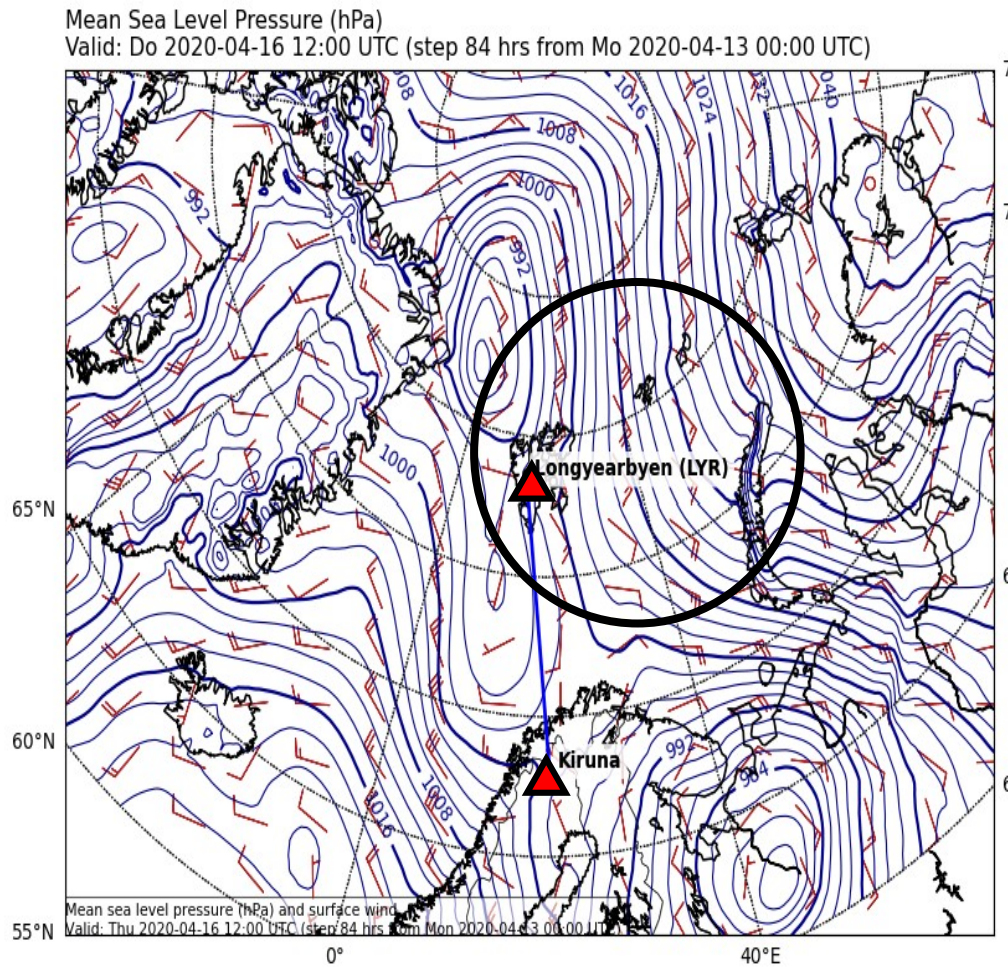
16 April 2020

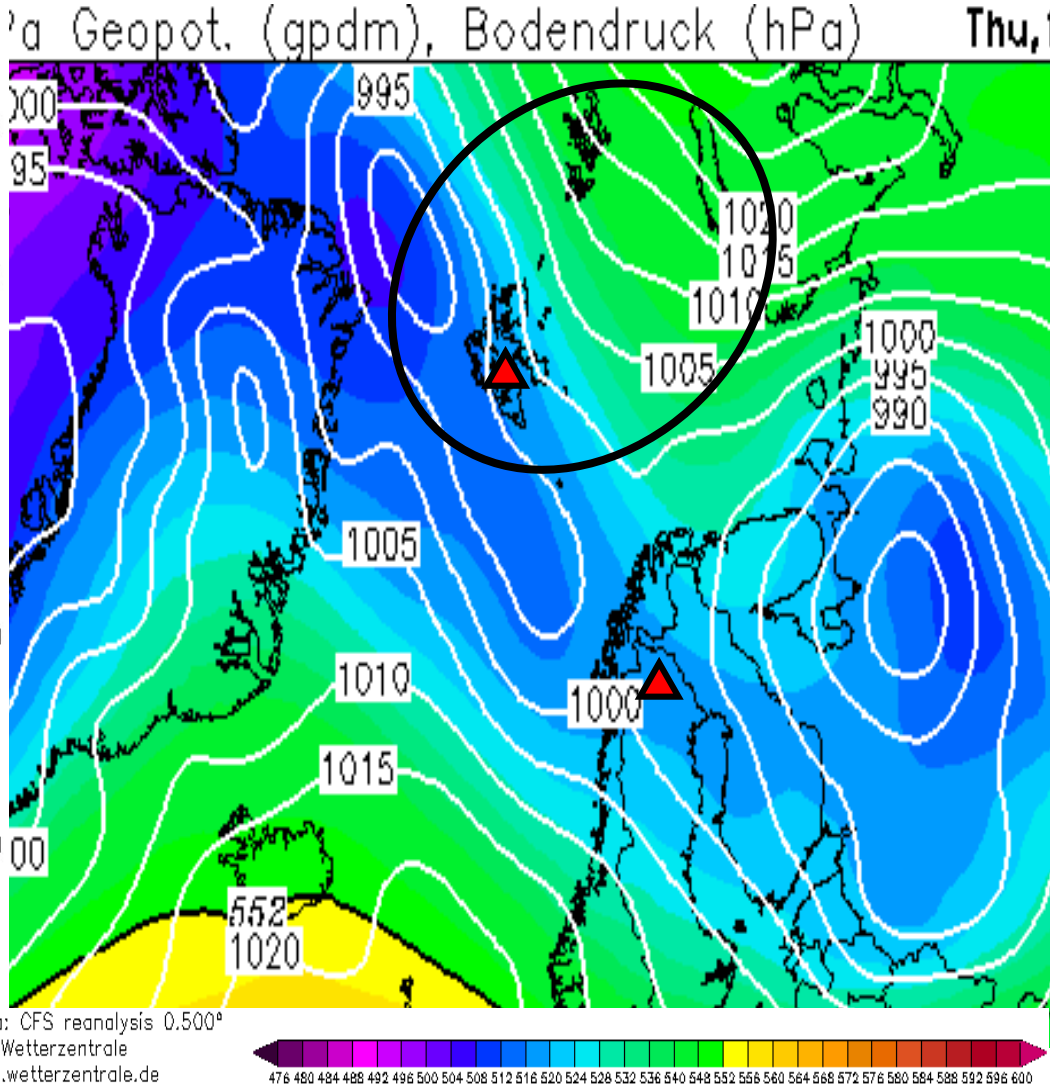
850hPa Temperature & Geopotential: ECMWF Forecast & CFS Analysis – 16/04/20, 12 UTC



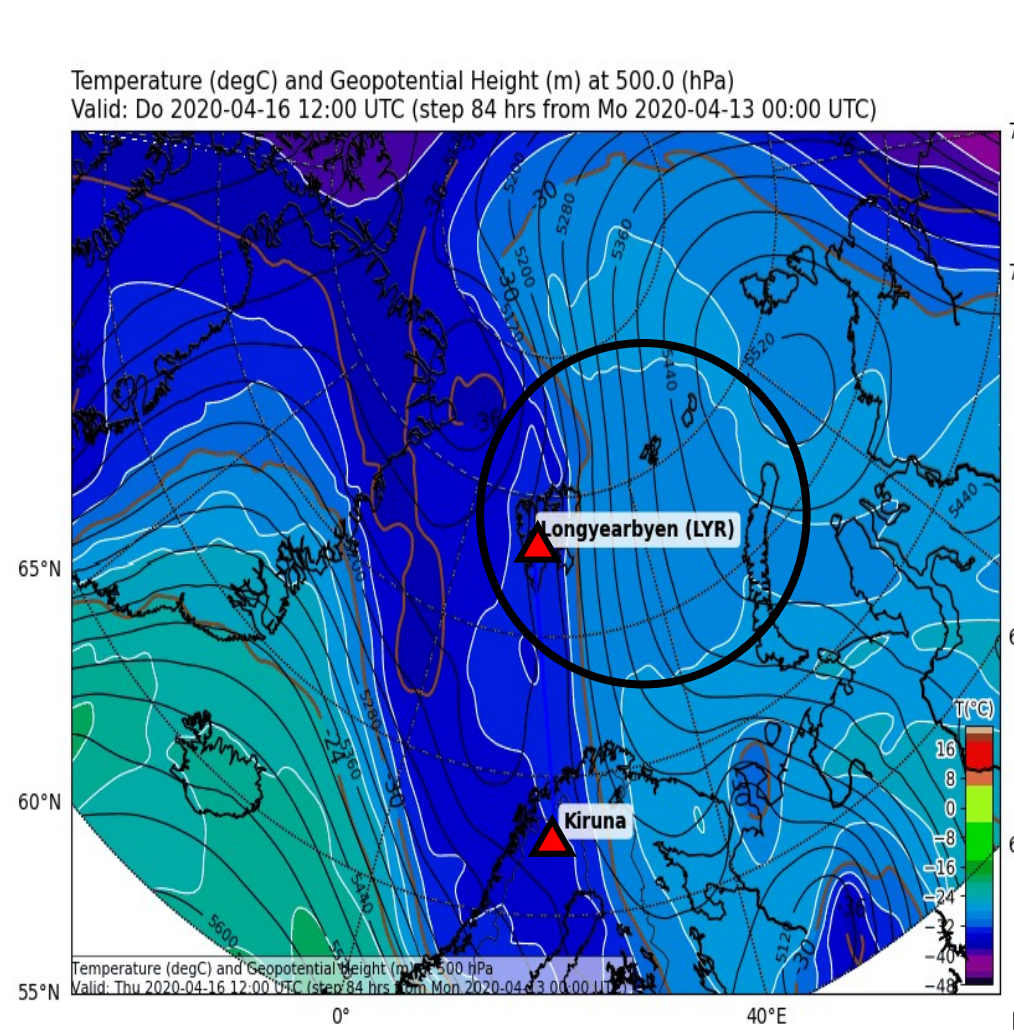


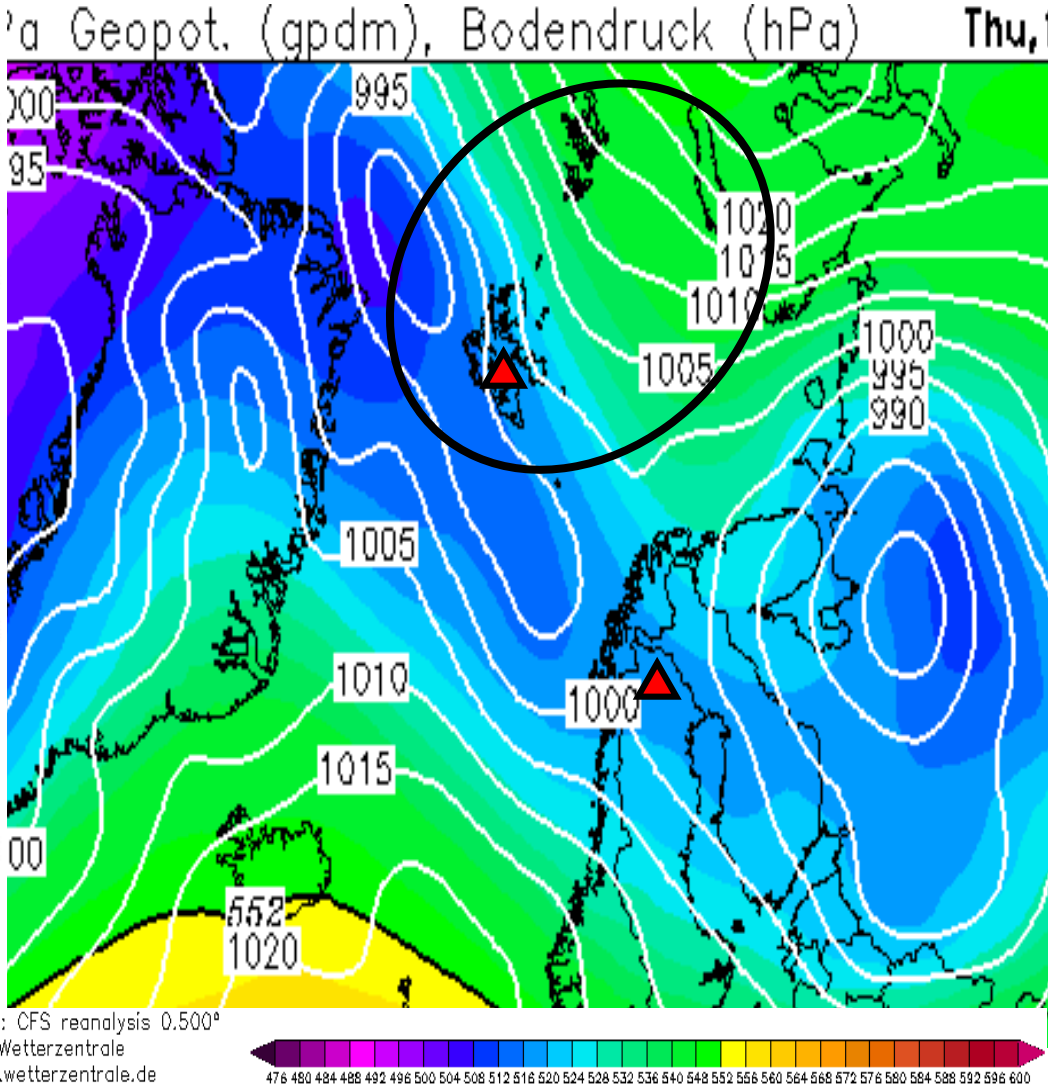
MSLP: ECMWF Forecast & CFS Analysis – 16/04/20, 12 UTC





500hPa Geop.: ECMWF Forecast & CFS Analysis – 16/04/20, 12 UTC





Clouds: ECMWF Forecast & Satellite (MODIS worldview) – 16/04/20, 12 UTC