

Weather briefing HALO-(AC)³

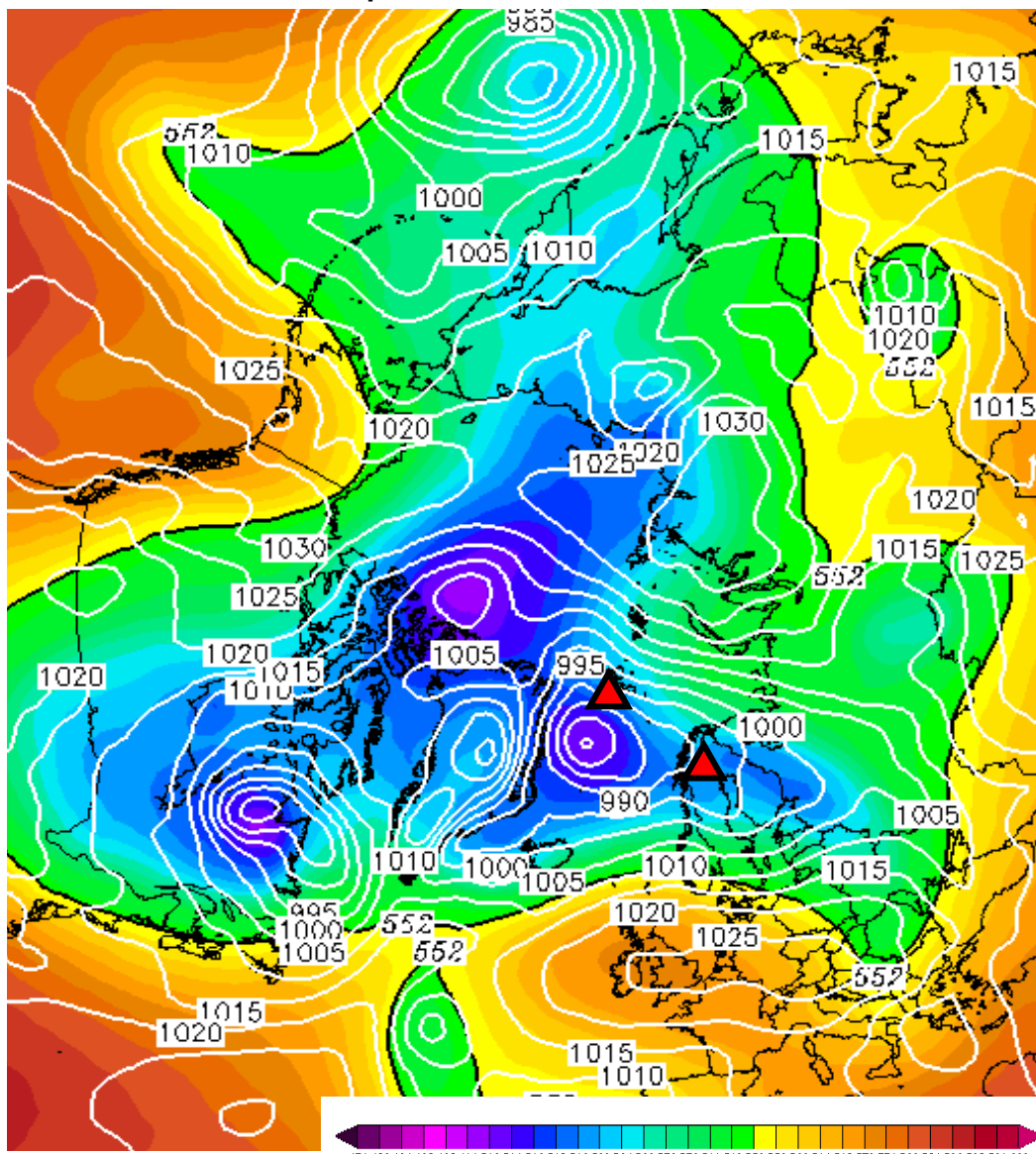
21 March 2021

Warm Air Intrusions 16 - 19 April 2020

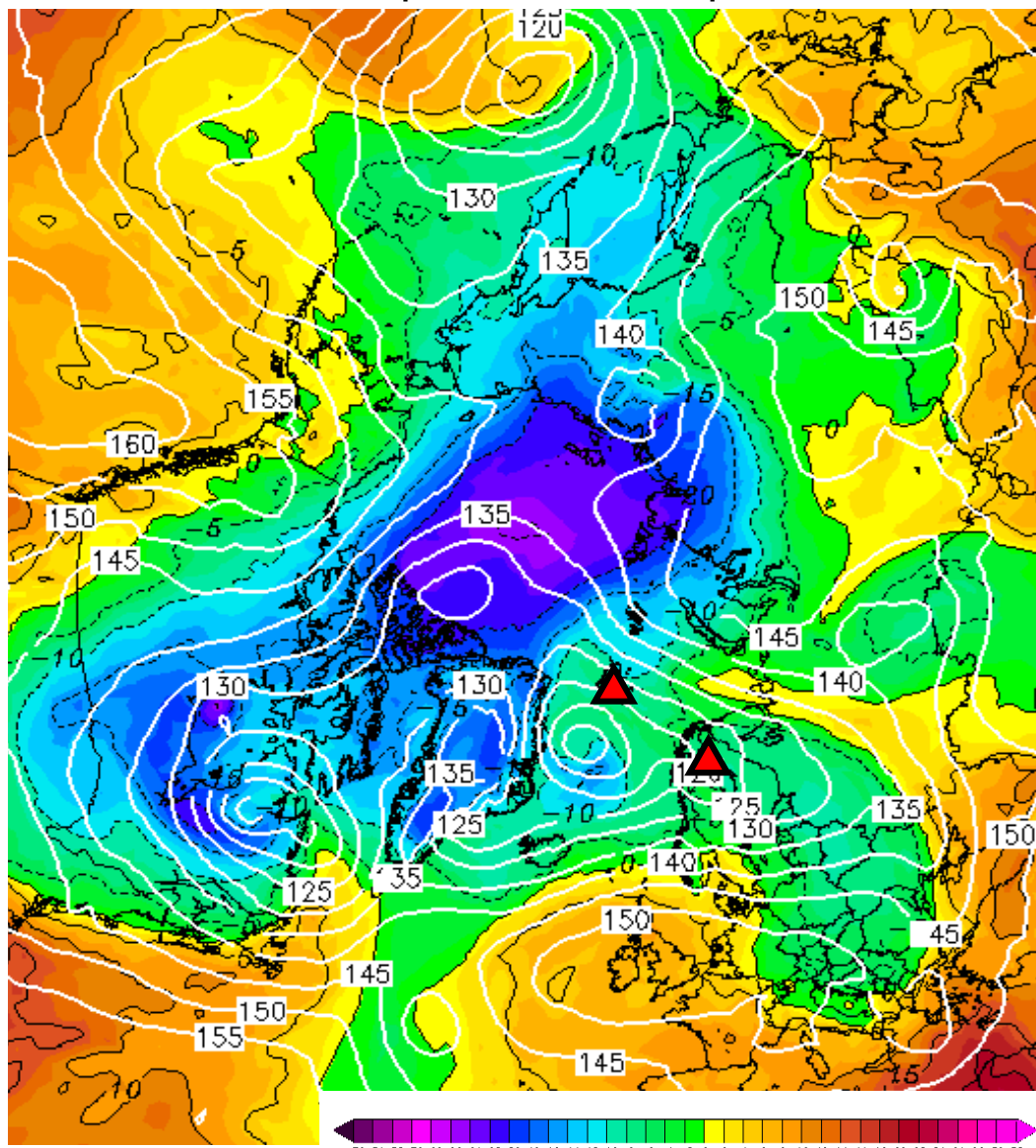
16 April 2020

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

500hPa Geopotential & Surface Pressure

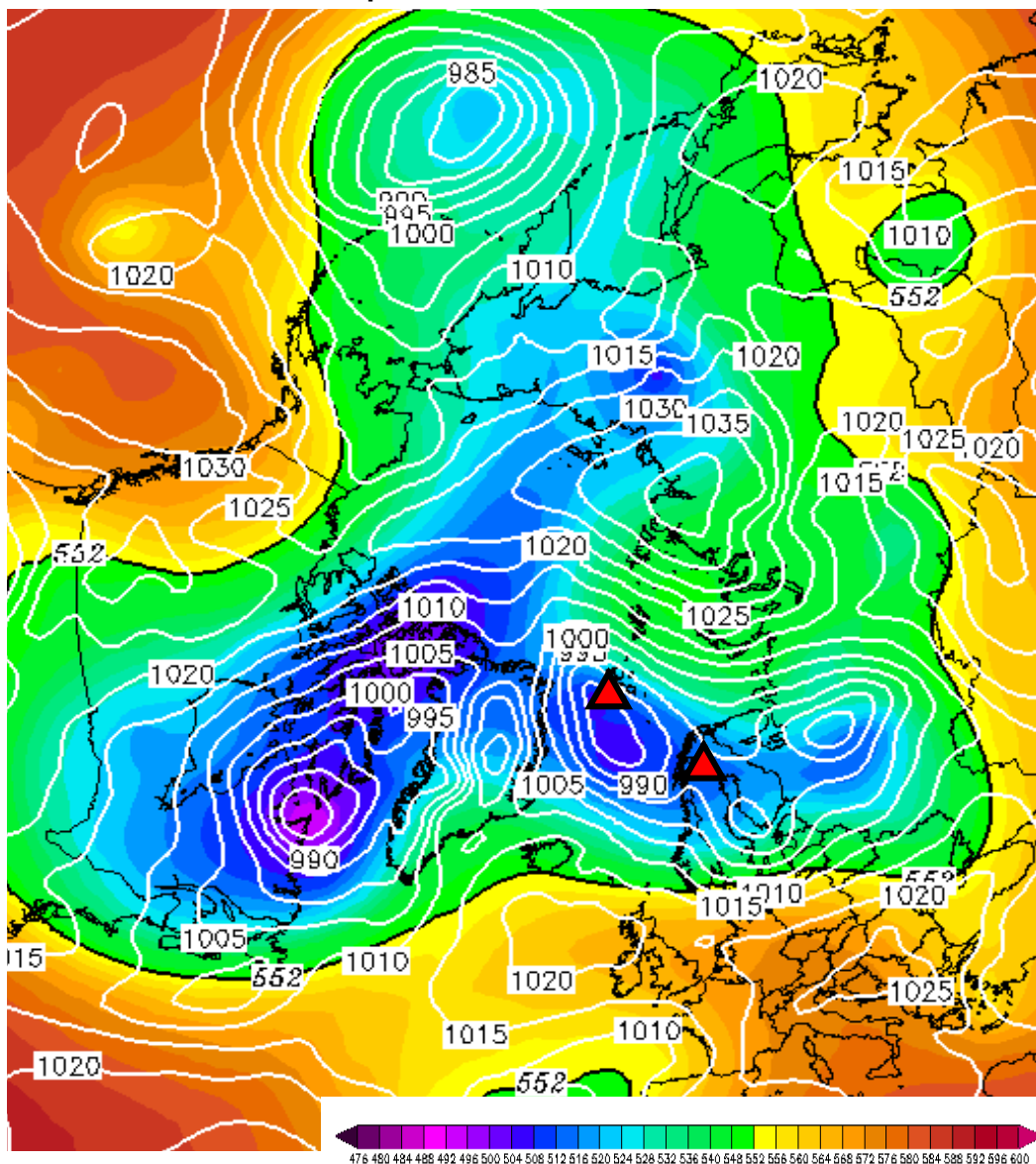


850hPa Geopotential & Temperature

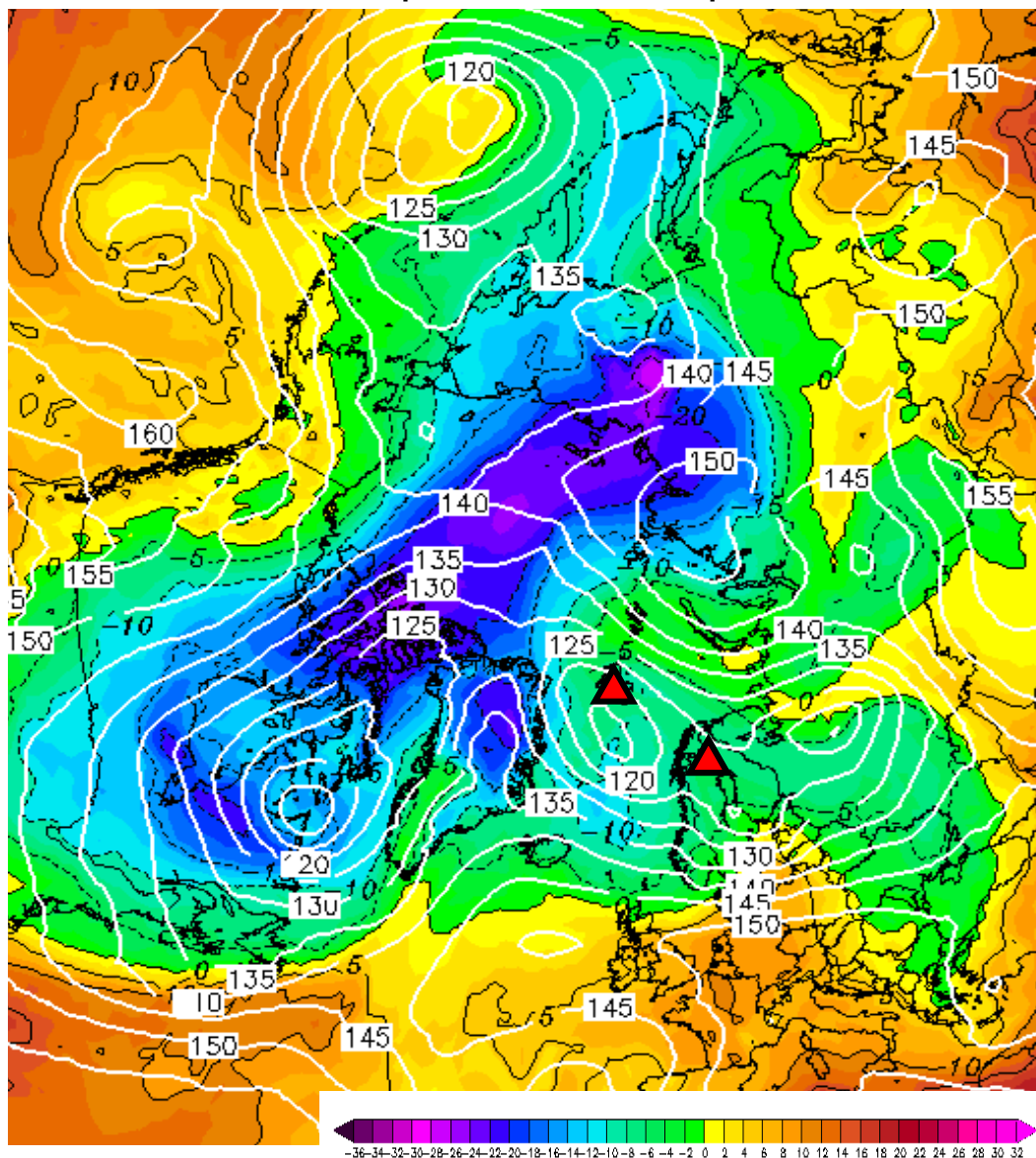


General large-scale weather (GFS analysis): 16 April 2020, 00 UTC

500hPa Geopotential & Surface Pressure

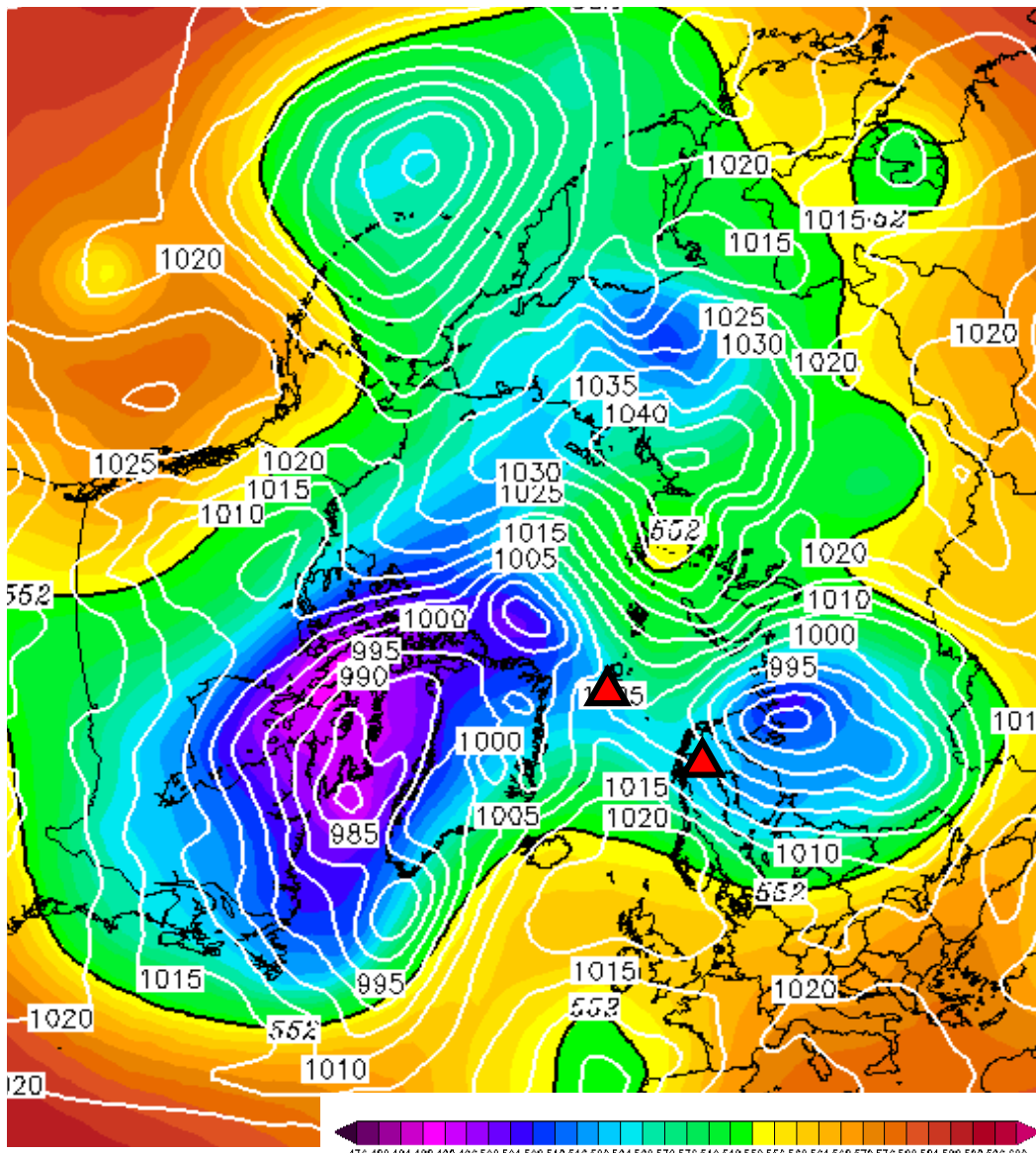


850hPa Geopotential & Temperature

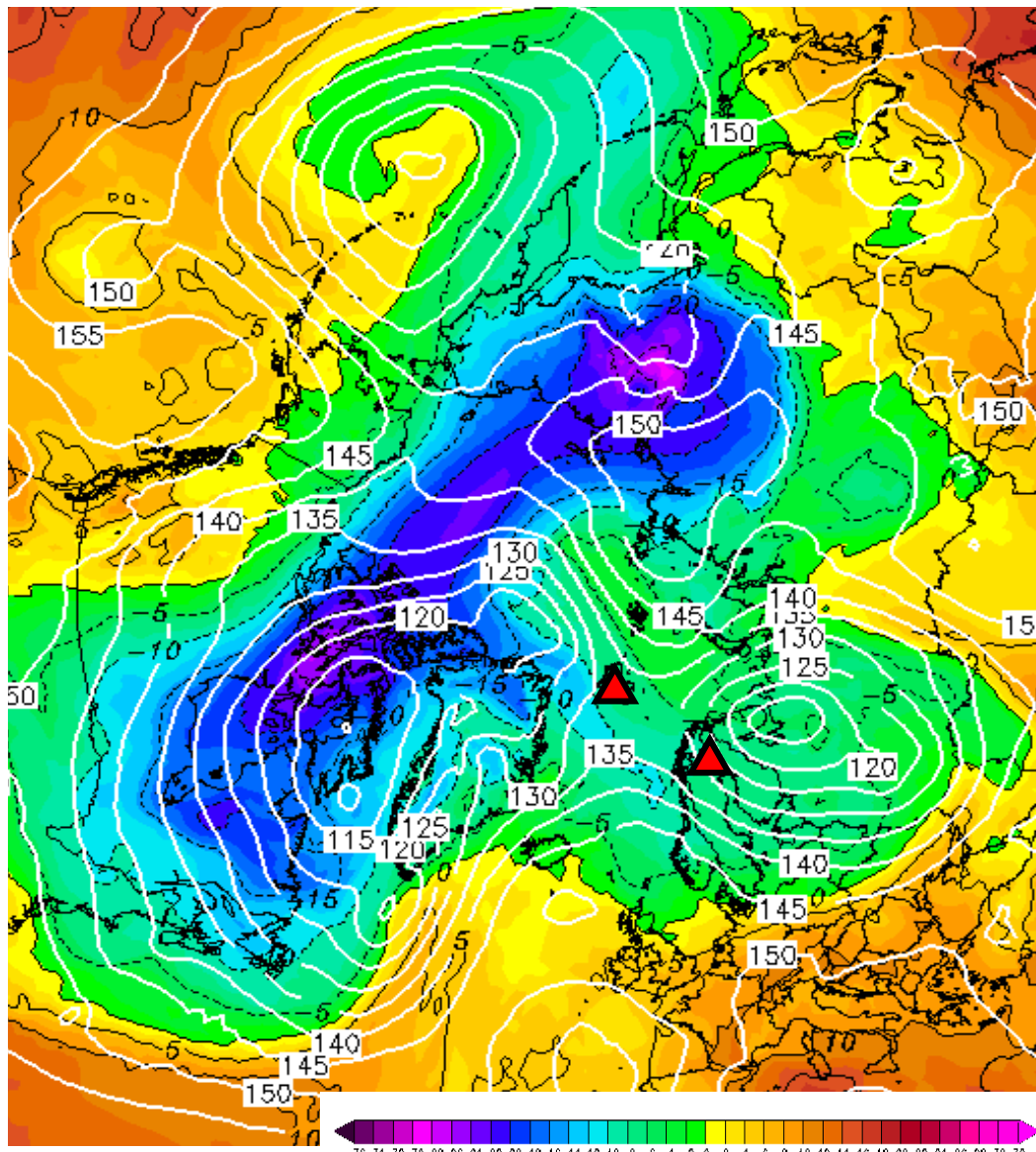


General large-scale weather (GFS analysis): 17 April 2020, 00 UTC

500hPa Geopotential & Surface Pressure

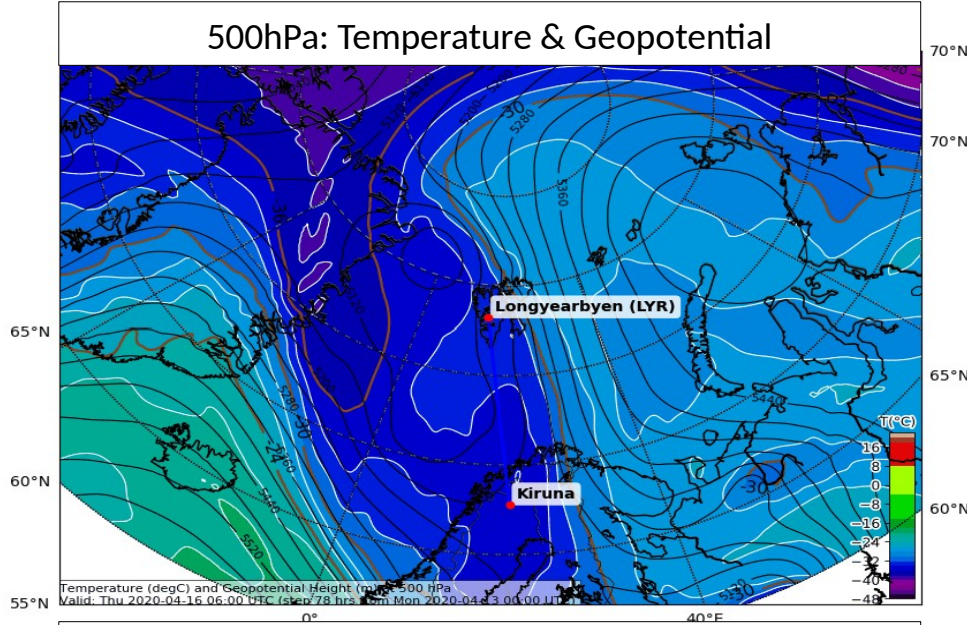


850hPa Geopotential & Temperature

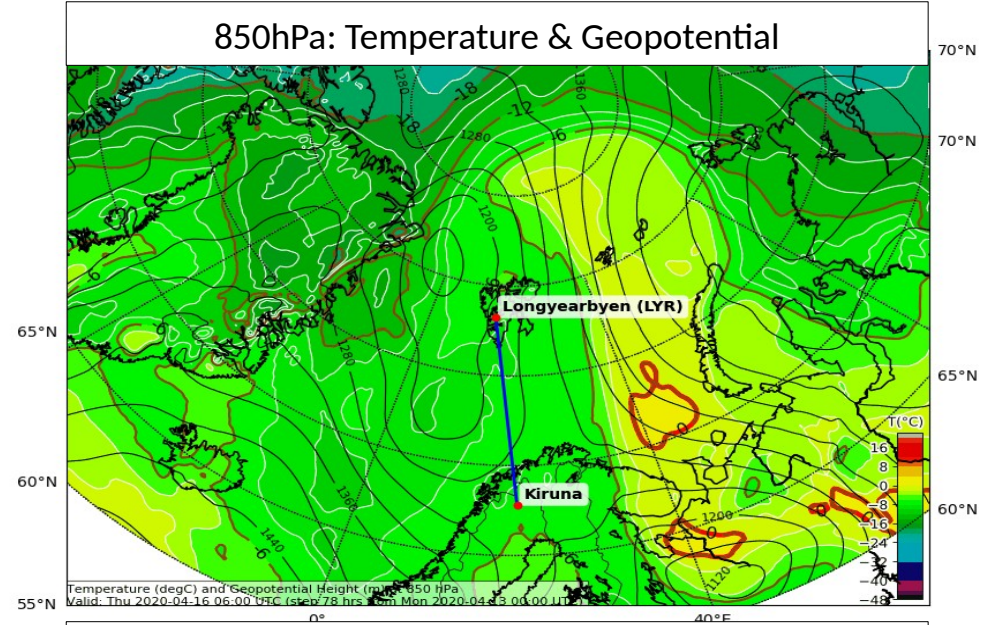


General weather situation (ECMWF): 16/04/20, 06 UTC

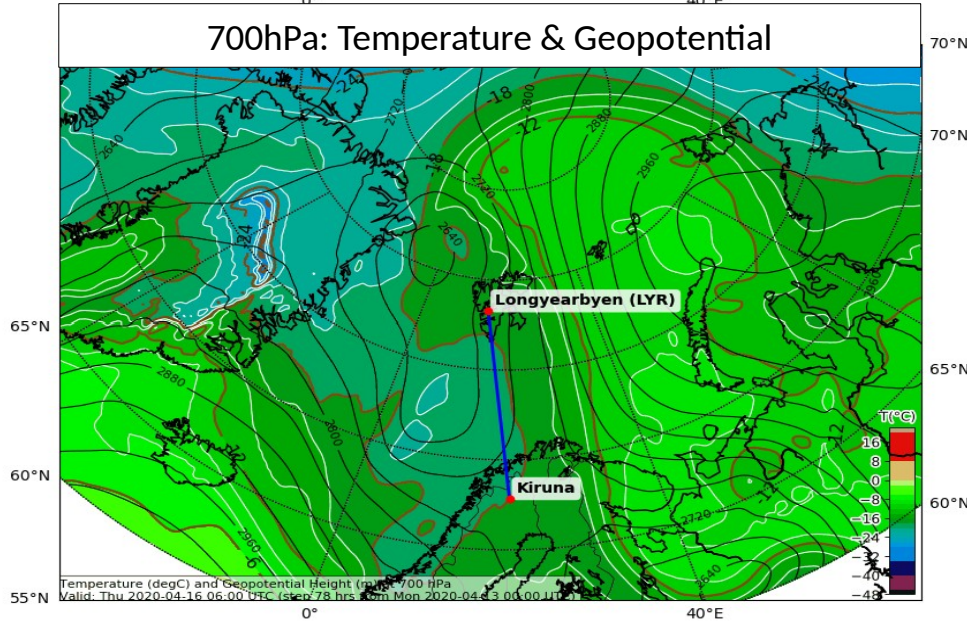
500hPa: Temperature & Geopotential



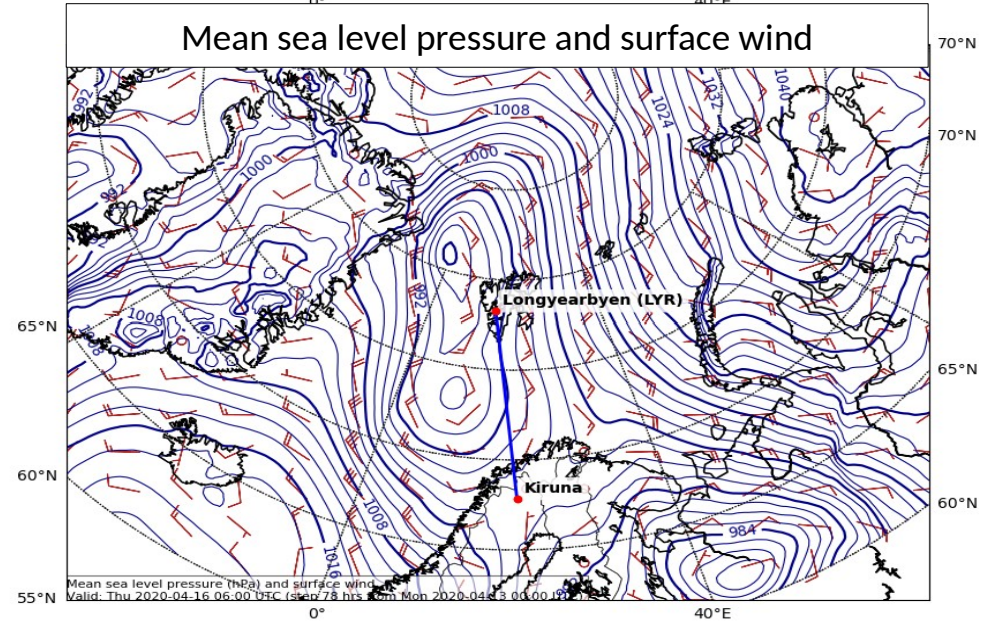
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

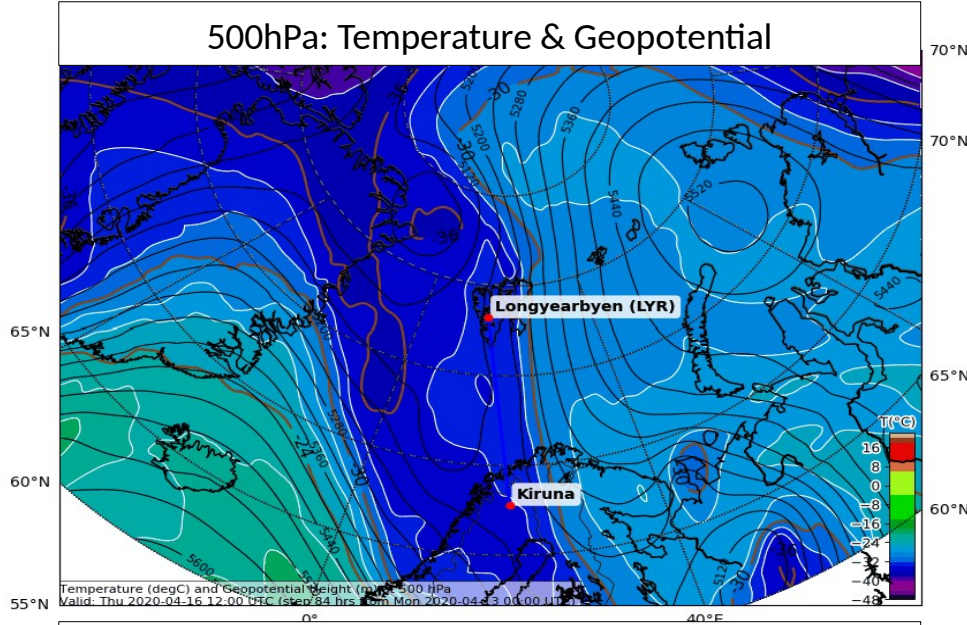


Mean sea level pressure and surface wind

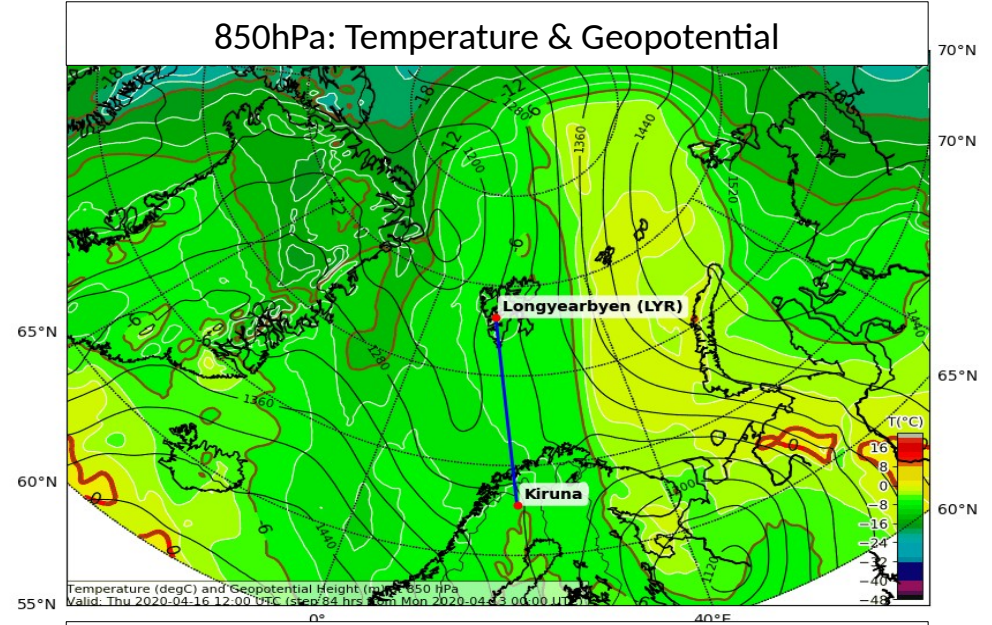


General weather situation (ECMWF): 16/04/20, 12 UTC

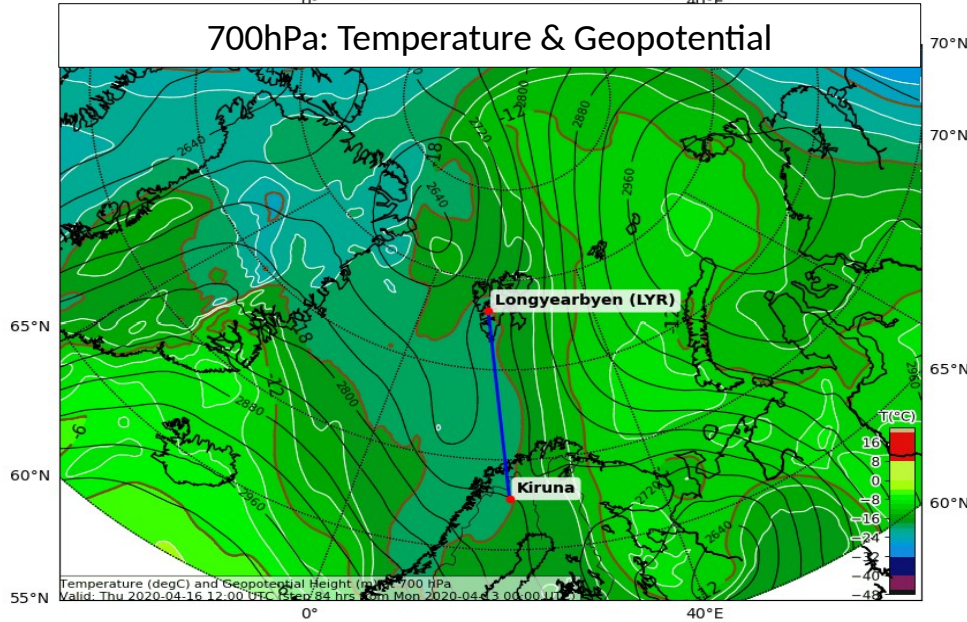
500hPa: Temperature & Geopotential



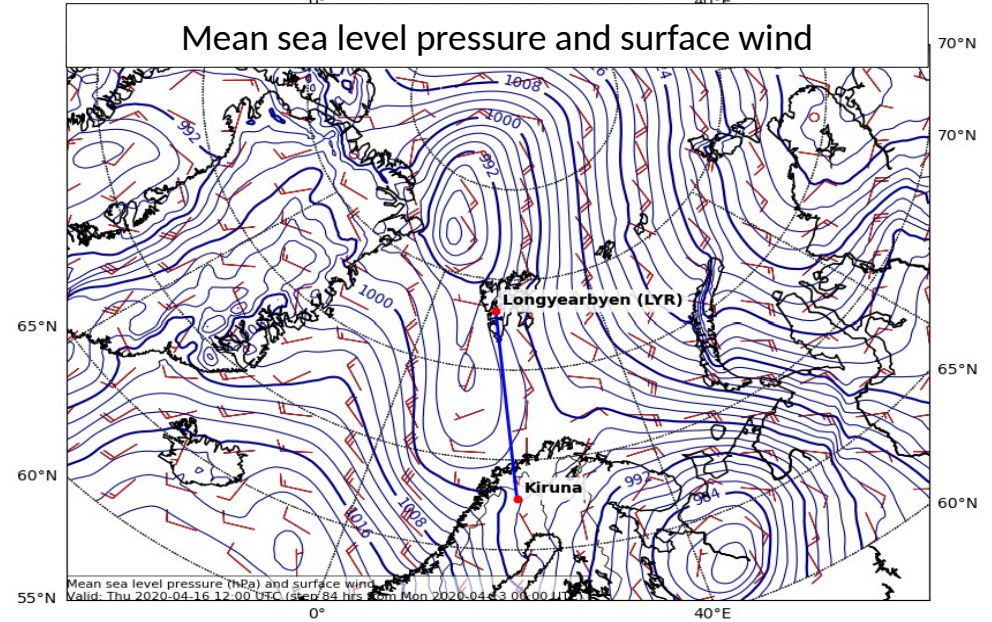
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

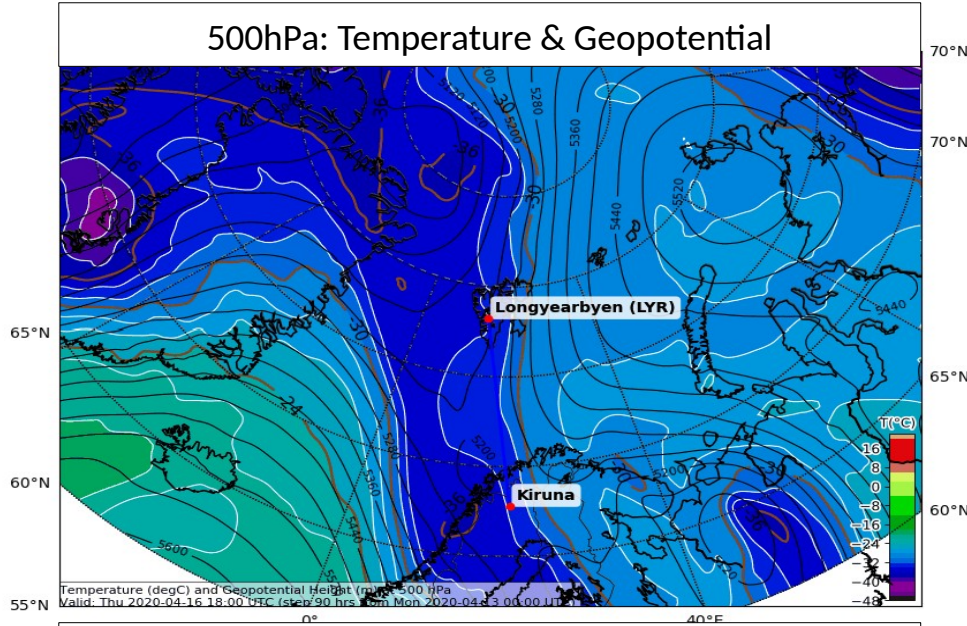


Mean sea level pressure and surface wind

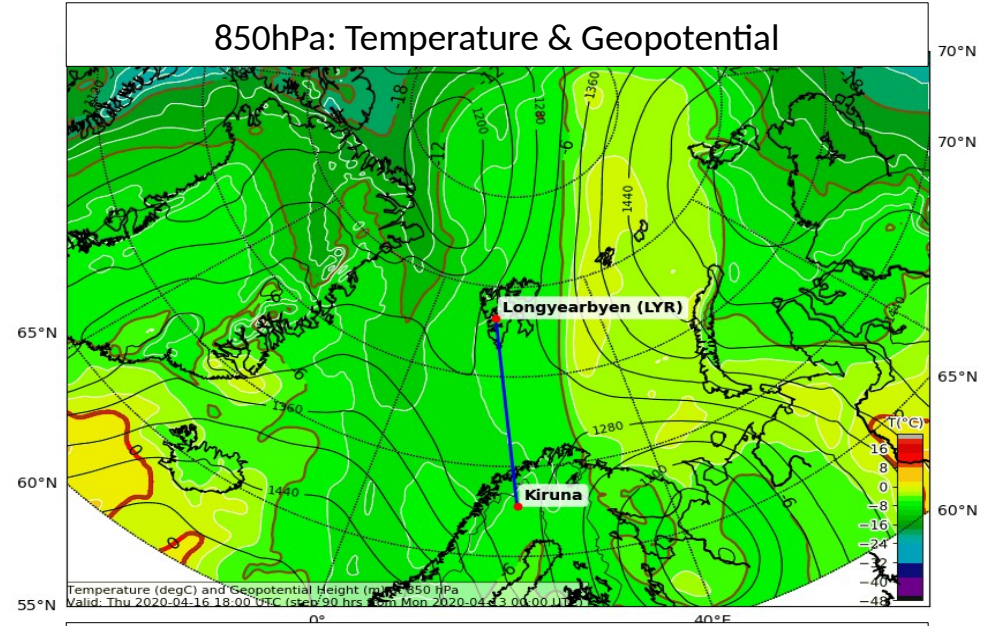


General weather situation (ECMWF): 16/04/20, 18 UTC

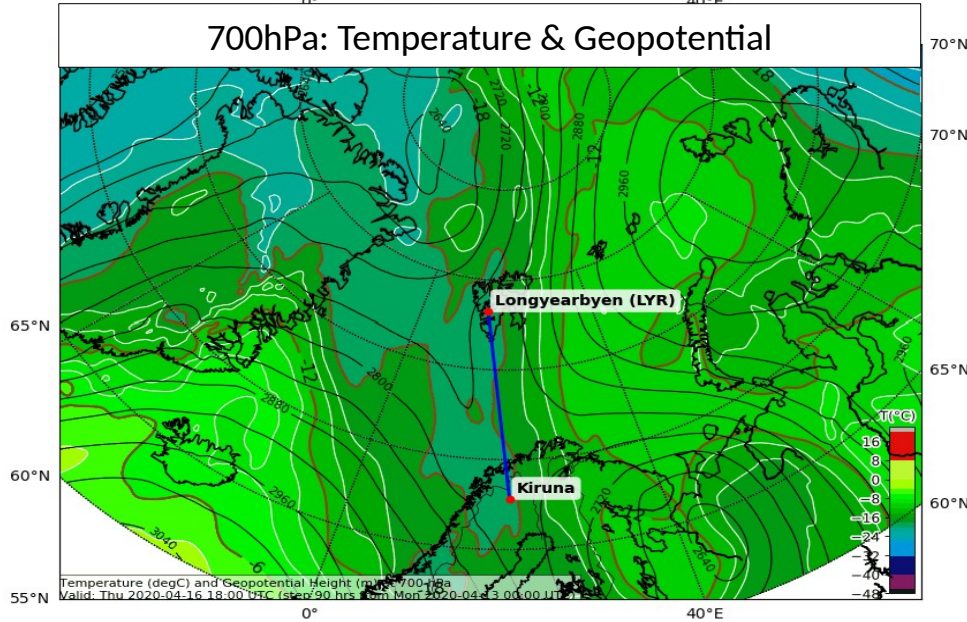
500hPa: Temperature & Geopotential



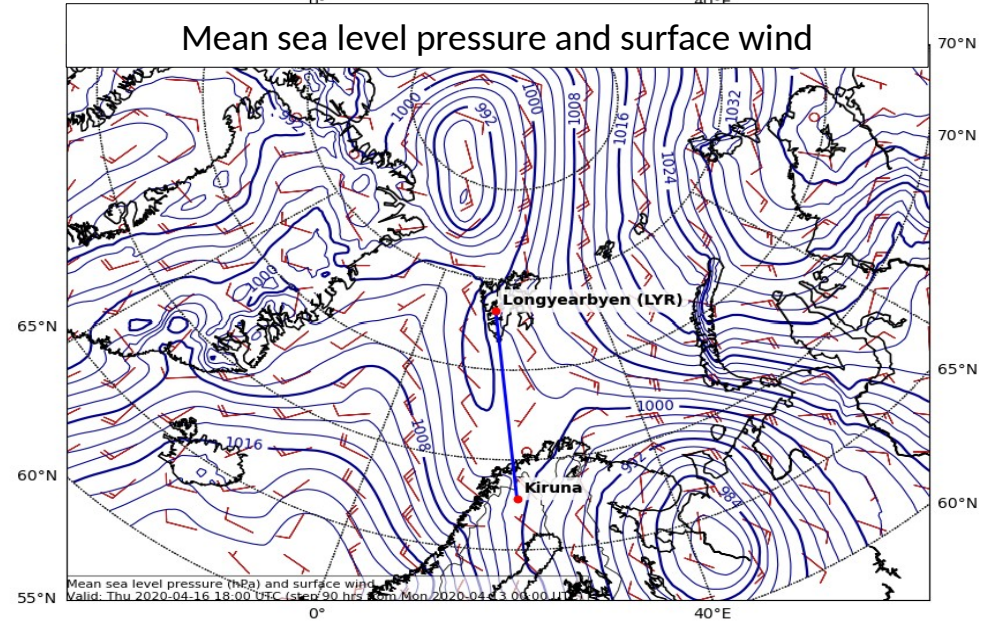
850hPa: Temperature & Geopotential



700hPa: Temperature & Geopotential

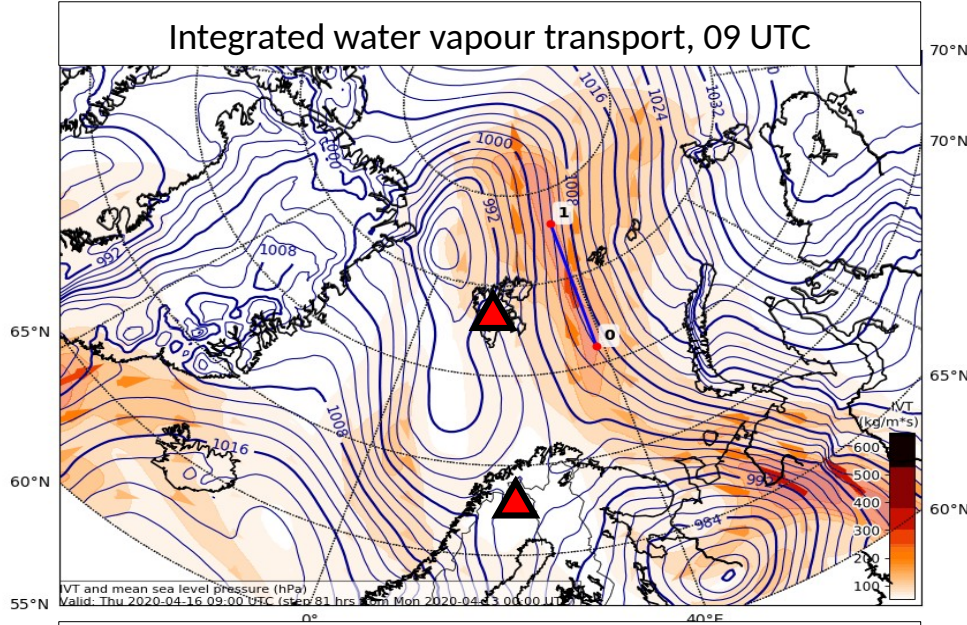


Mean sea level pressure and surface wind

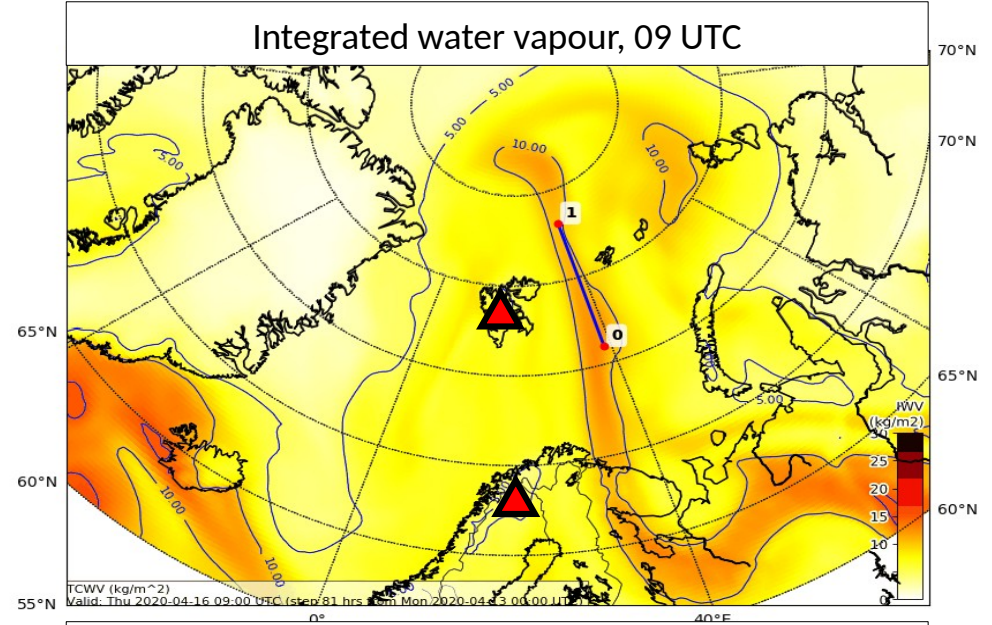


Integrated water vapour (ECMWF): 16/04/20, 09 & 15 UTC

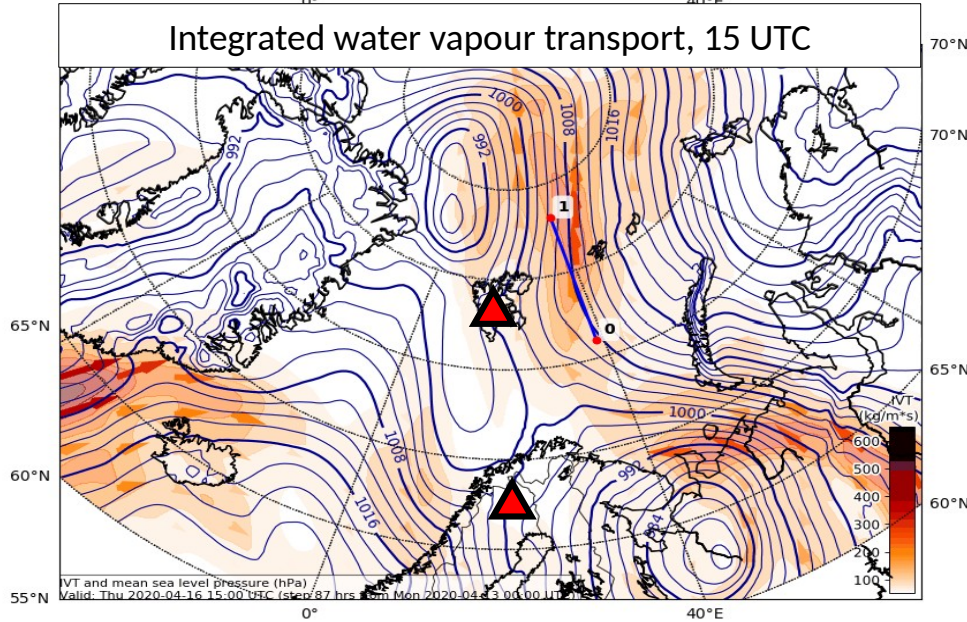
Integrated water vapour transport, 09 UTC



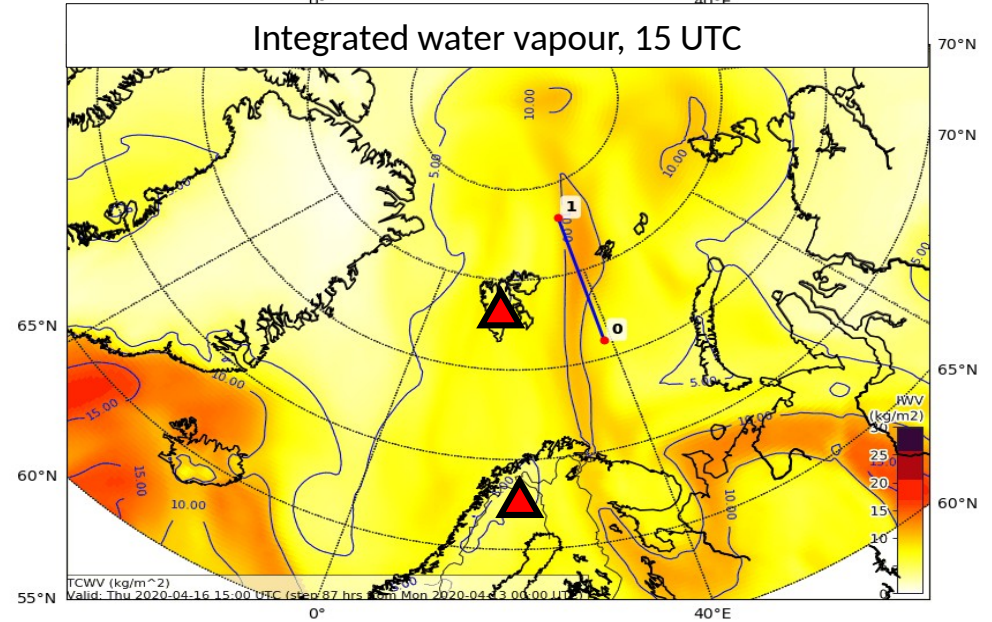
Integrated water vapour, 09 UTC



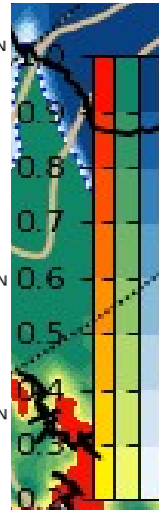
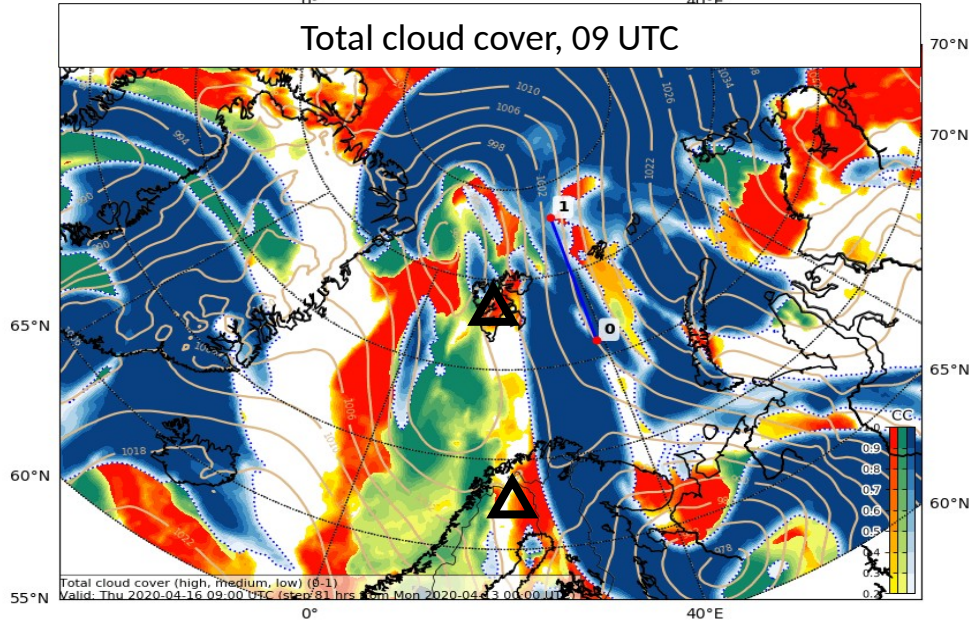
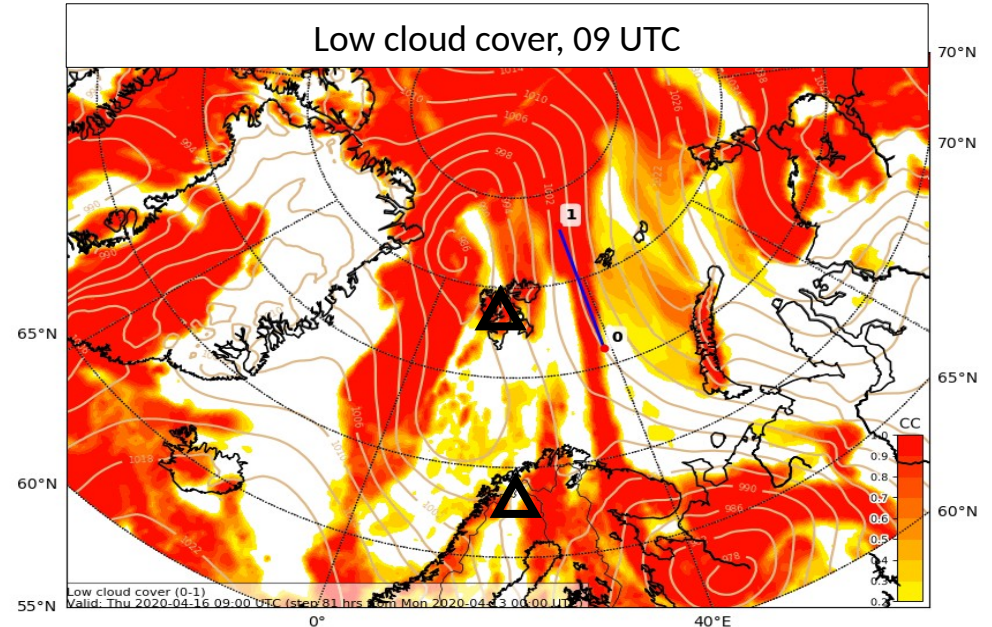
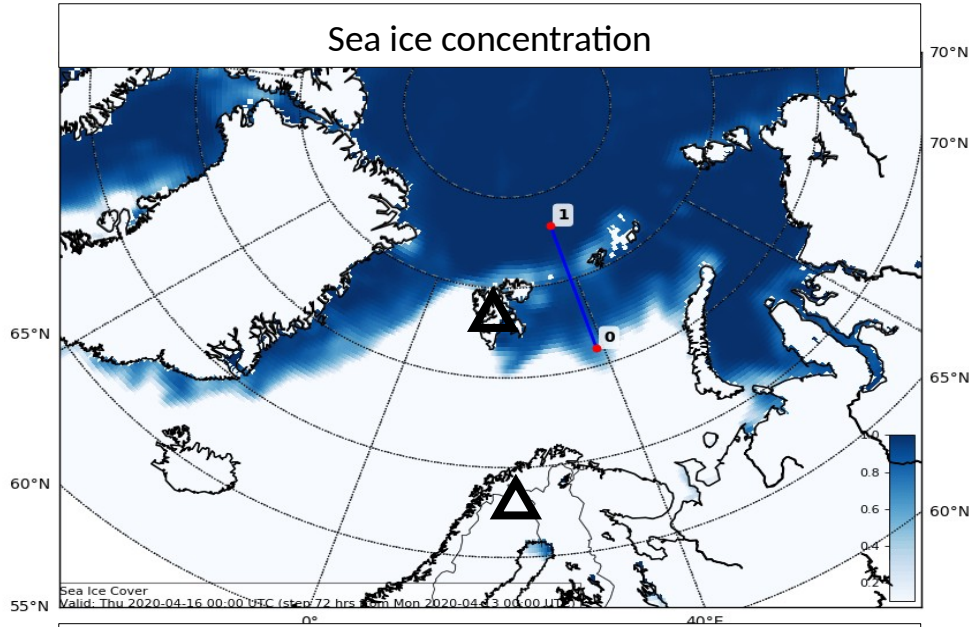
Integrated water vapour transport, 15 UTC



Integrated water vapour, 15 UTC

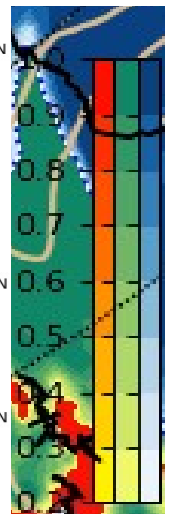
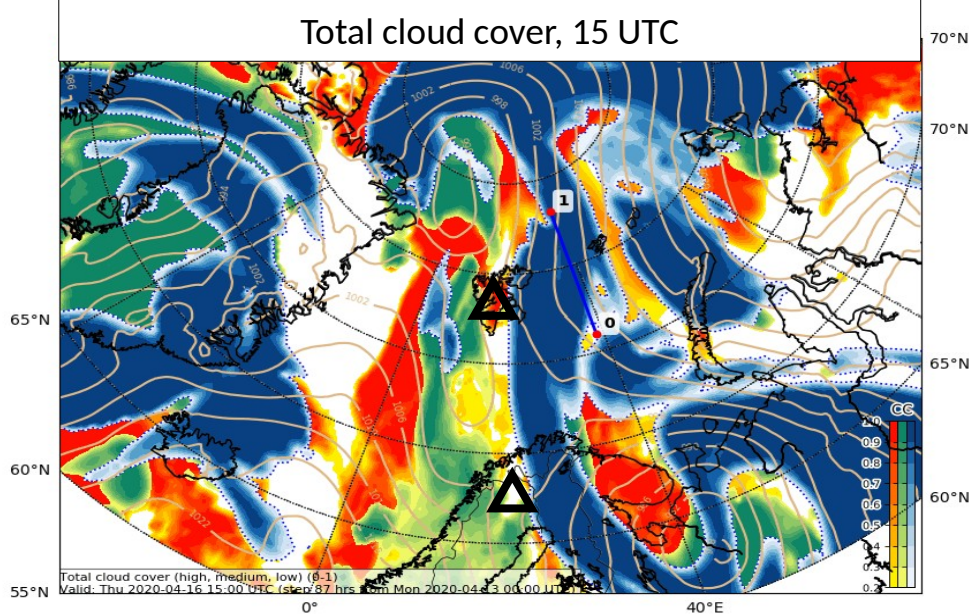
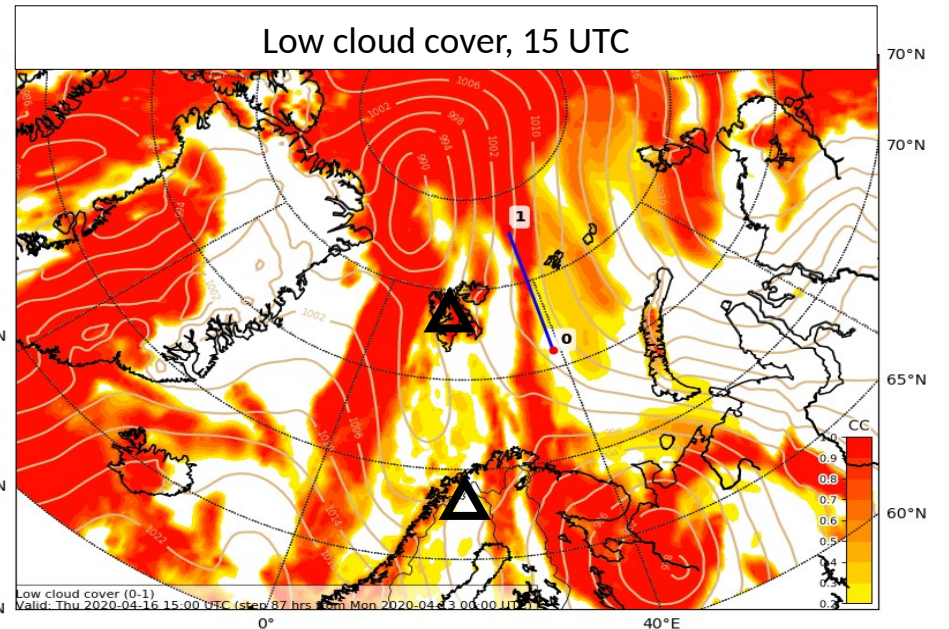
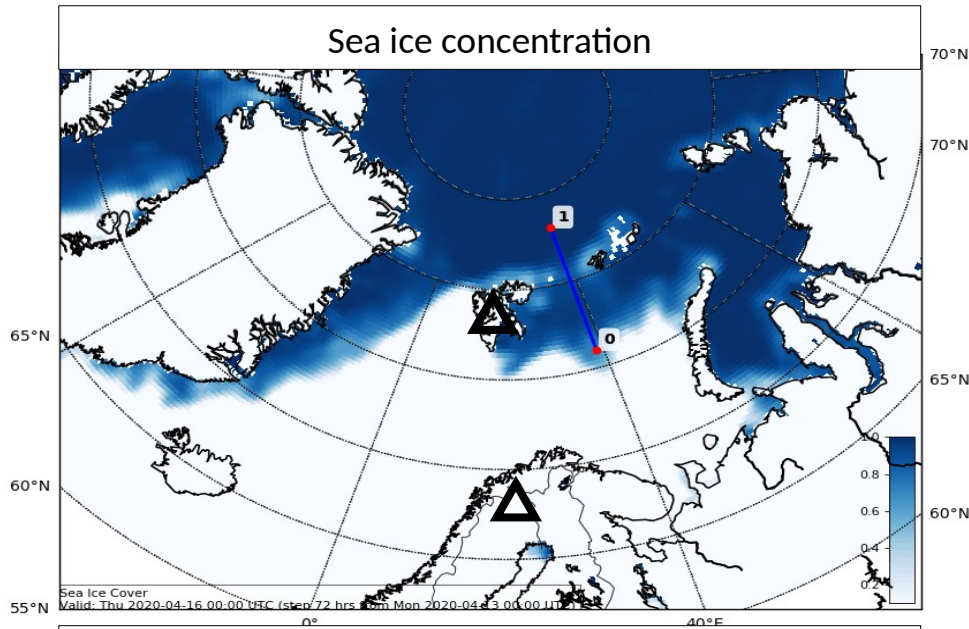


Sea Ice cover, Low cloud cover & Total cloud cover (ECMWF): 16/04/20, 09 UTC



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

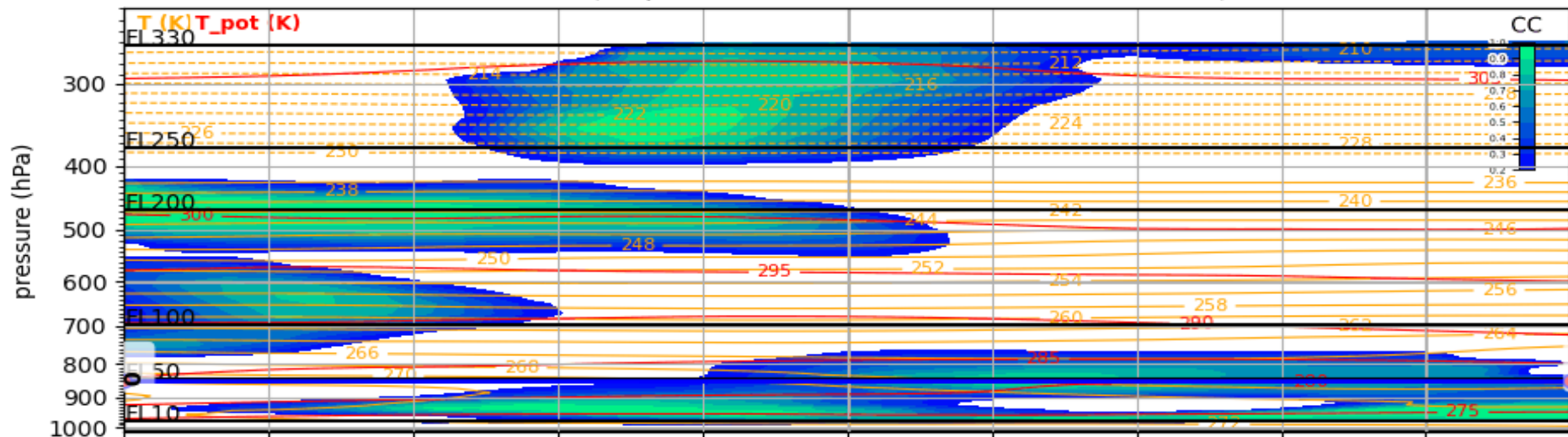
Sea Ice cover, Low cloud cover & Total cloud cover (ECMWF): 16/04/20, 15 UTC



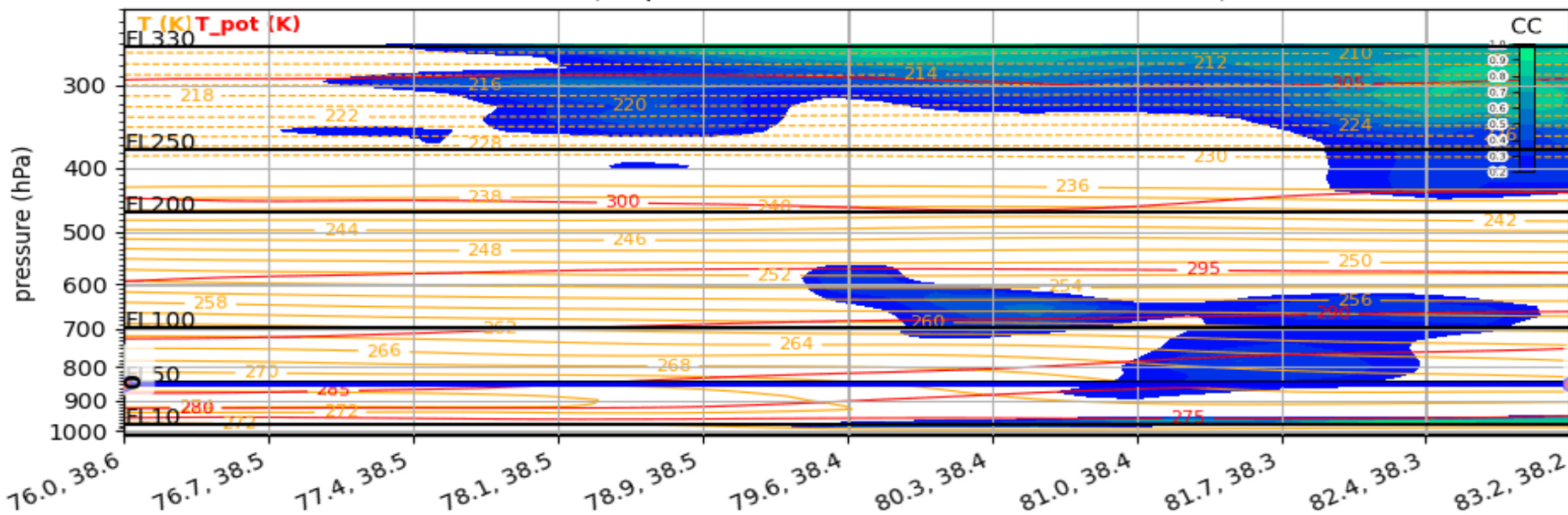
Red: Low cloud cover
Green: Medium cloud cover
Blue: High cloud cover

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

Valid: Do 2020-04-16 09:00 UTC (step 81 hrs from Mo 2020-04-13 00:00 UTC)



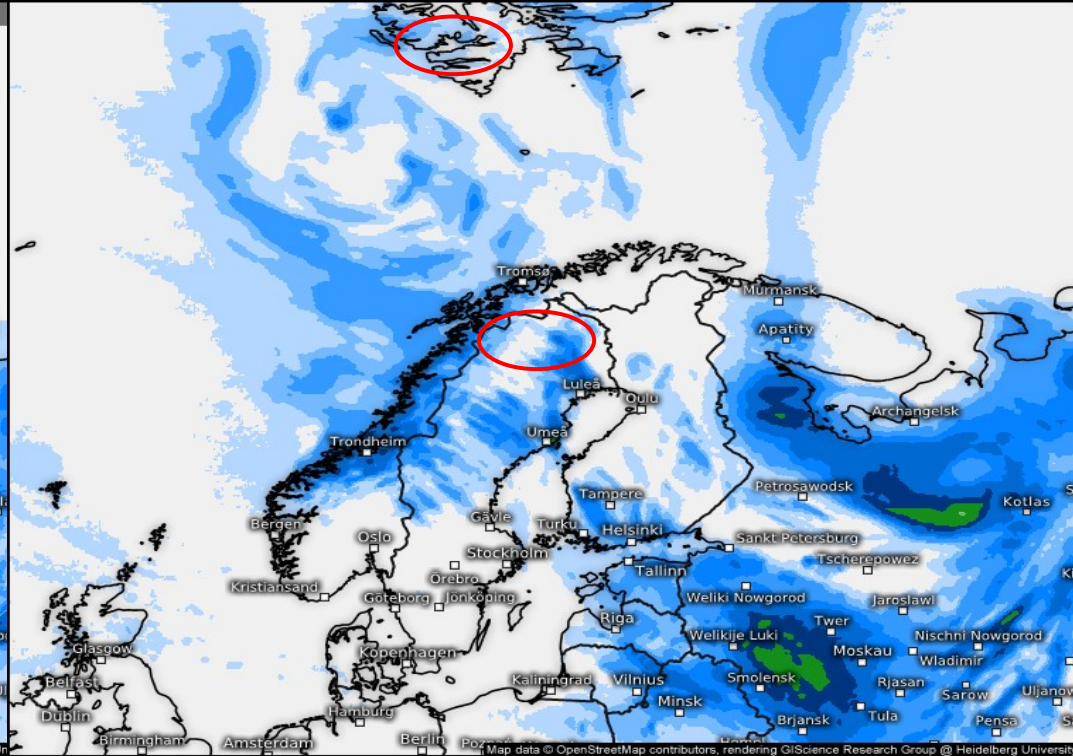
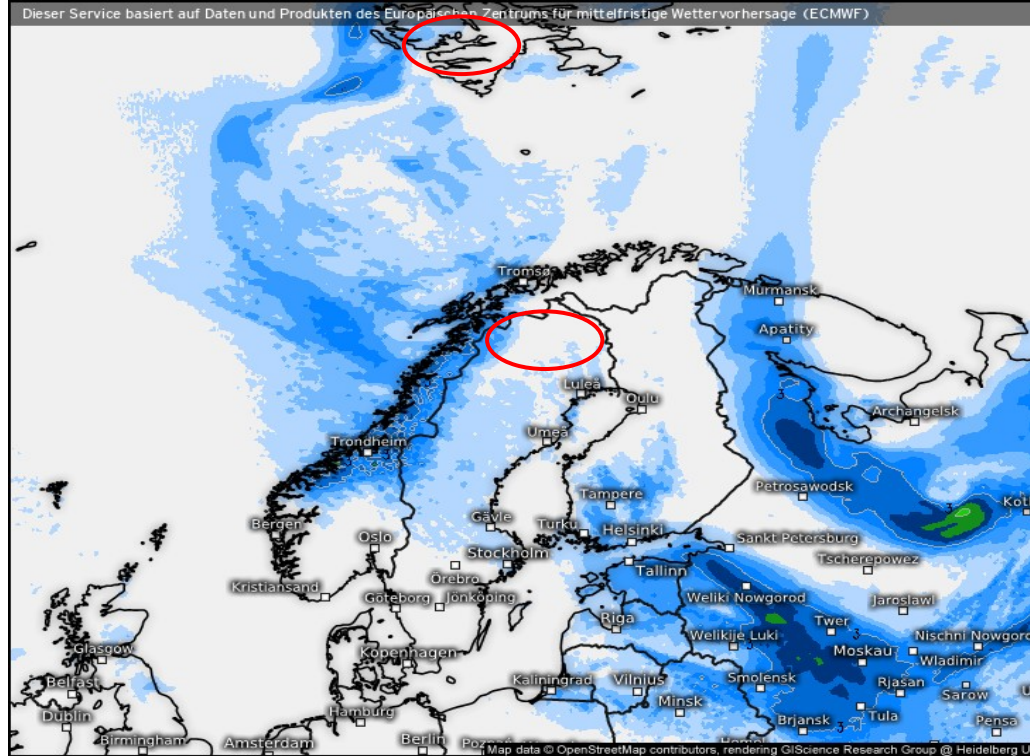
Valid: Do 2020-04-16 15:00 UTC (step 87 hrs from Mo 2020-04-13 00:00 UTC)



6h Precipitation: 16/04/20

Precipitation ECMWF: 09 - 15Z

Precipitation HIRLAM-FMI: 09 - 15Z

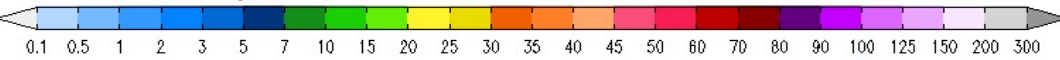
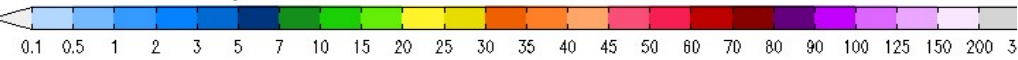


Niederschlagssumme, 6std (mm)

Prognose
Do. 16.04.2020, 17:00 Uhr MT

Niederschlagssumme, 6std (mm)

Prognose für
Do. 16.04.2020, 17:00 Uhr MESZ



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

ECMWF kachelmannwetter.com WETTER HD

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

HD kachelmannwetter.com WETTER HD
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 05:00 UTC->

TAF ENSB

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

16/04/20 07:50->

METAR ESNQ

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

16/04/20 02:30 UTC->

TAF ESNQ

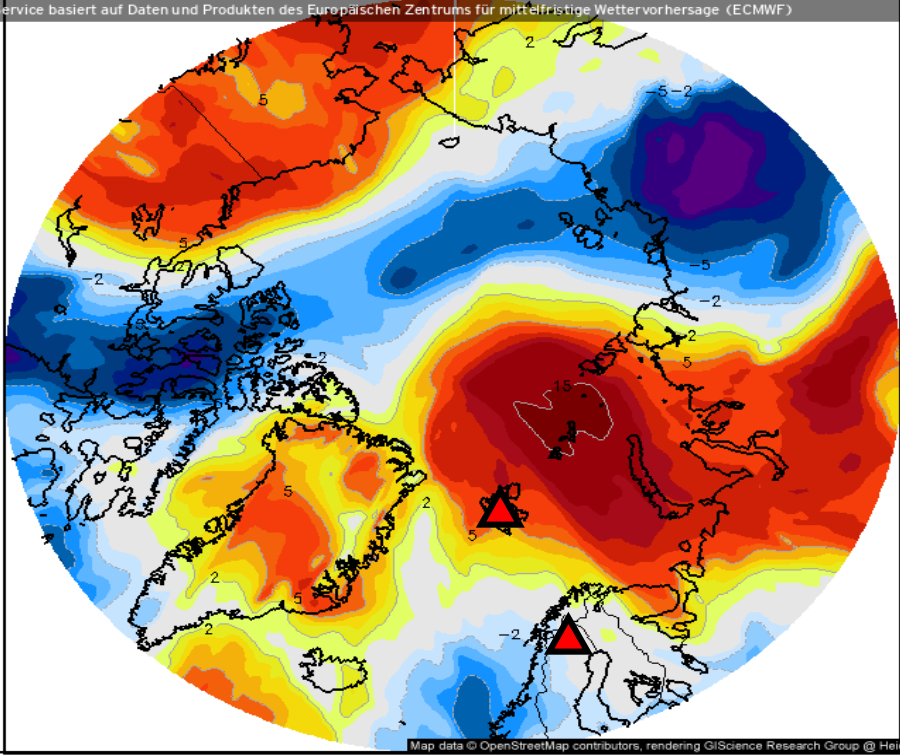
160230Z 1603/1606 VRB02KT CAVOK

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

Summary for 16 April 2020

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

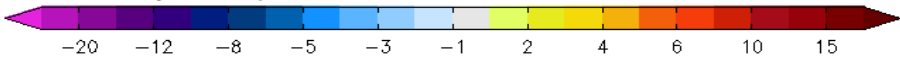
Dieser Service basiert auf Daten und Produkten des Europäischen Zentrums für mittelfristige Wettervorhersage (ECMWF)



Map data © OpenStreetMap contributors, rendering GIScience Research Group @ Heidelberg University

Abweichung Temperatur, 850hPa (°C)

Prognose für
Do. 16.04.2020, 14:00 Uhr MESZ



Nordpol
ECMWF/Global Euro HD vom 15.04.2020/00z

ECMWF kachelmannwetter.com
WETTER HD

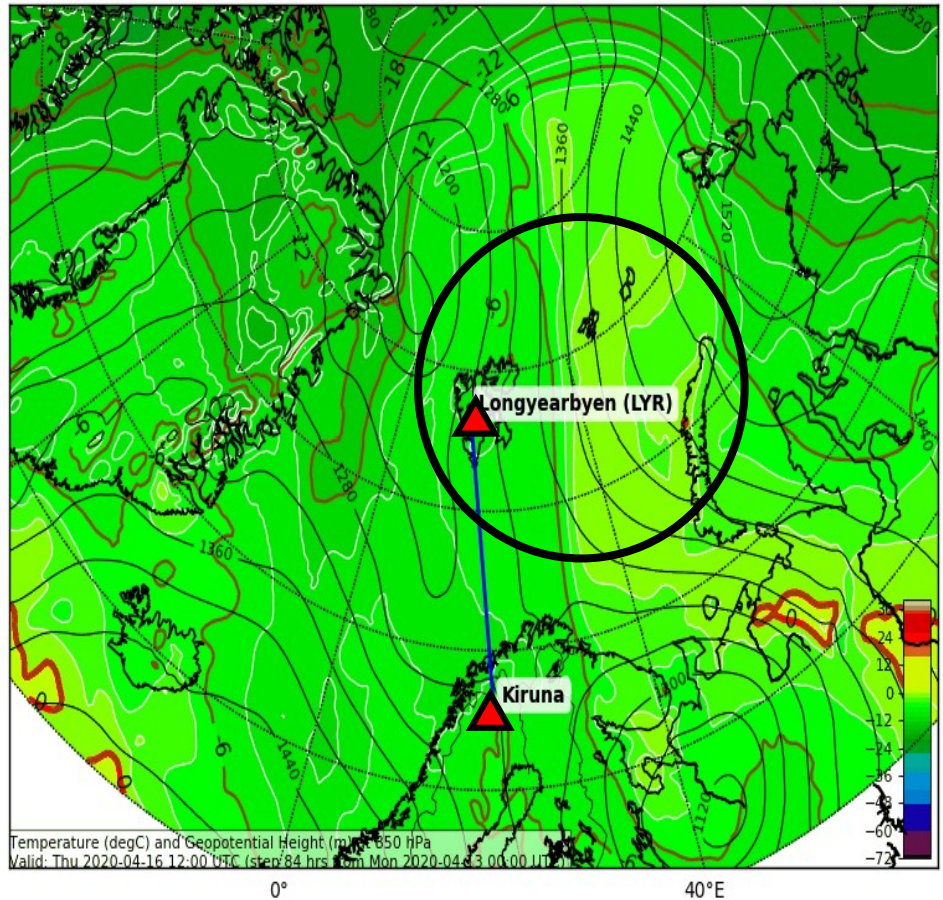
- Strongly southward directed trough with several lows W of Svalbard
→ strong WAI over Barents-/Kara-Sea incl. strong IVT
- Probably multiple cloud layers over sea ice in region of strongest IVT
- Almost no signals of precipitation at both KIR and LYR
- TAF: no challenging conditions to be expected

Verification

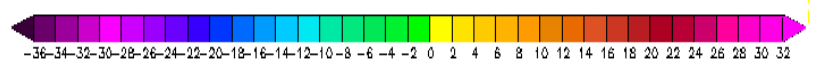
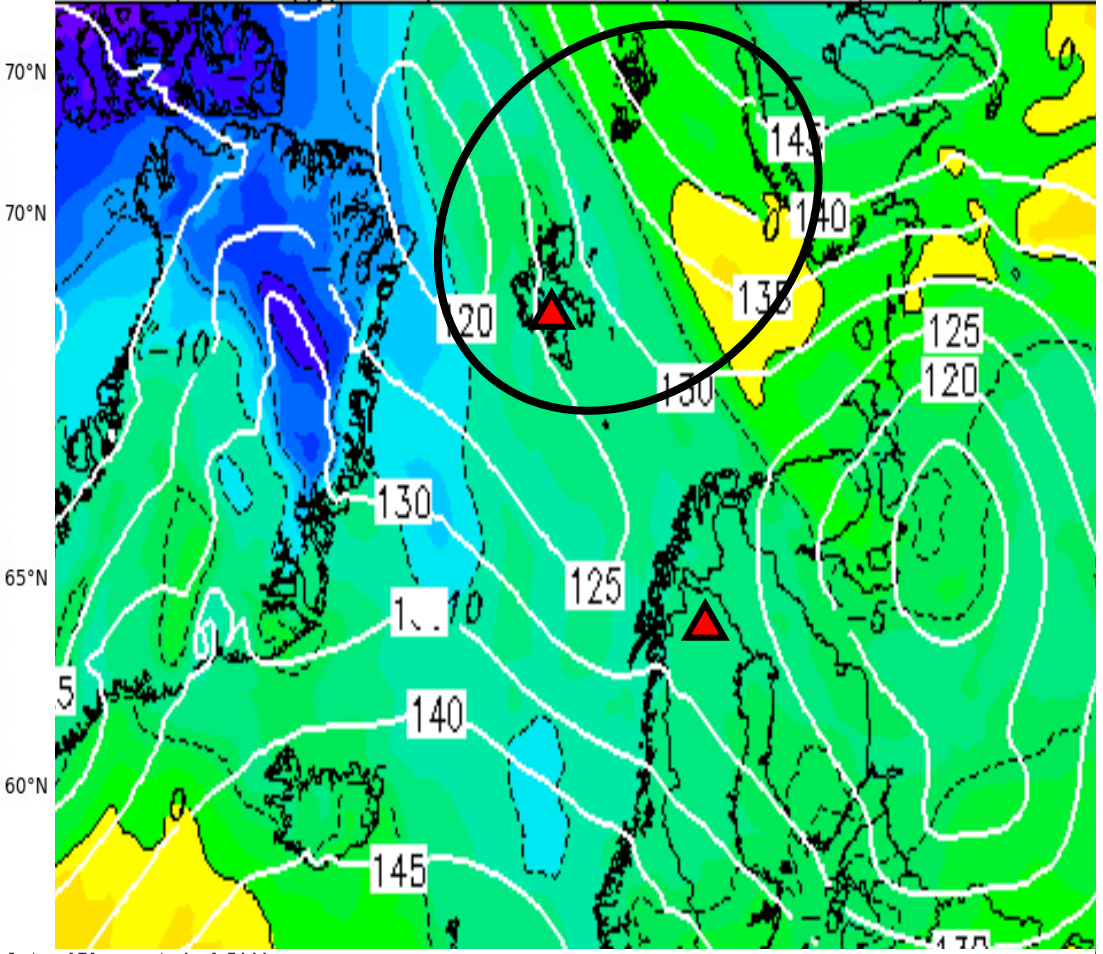
16 April 2020

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

Temperature (degC) and Geopotential Height (m) at 850.0 (hPa)
 Valid: Do 2020-04-16 12:00 UTC (step 84 hrs from Mo 2020-04-13 00:00 UTC)

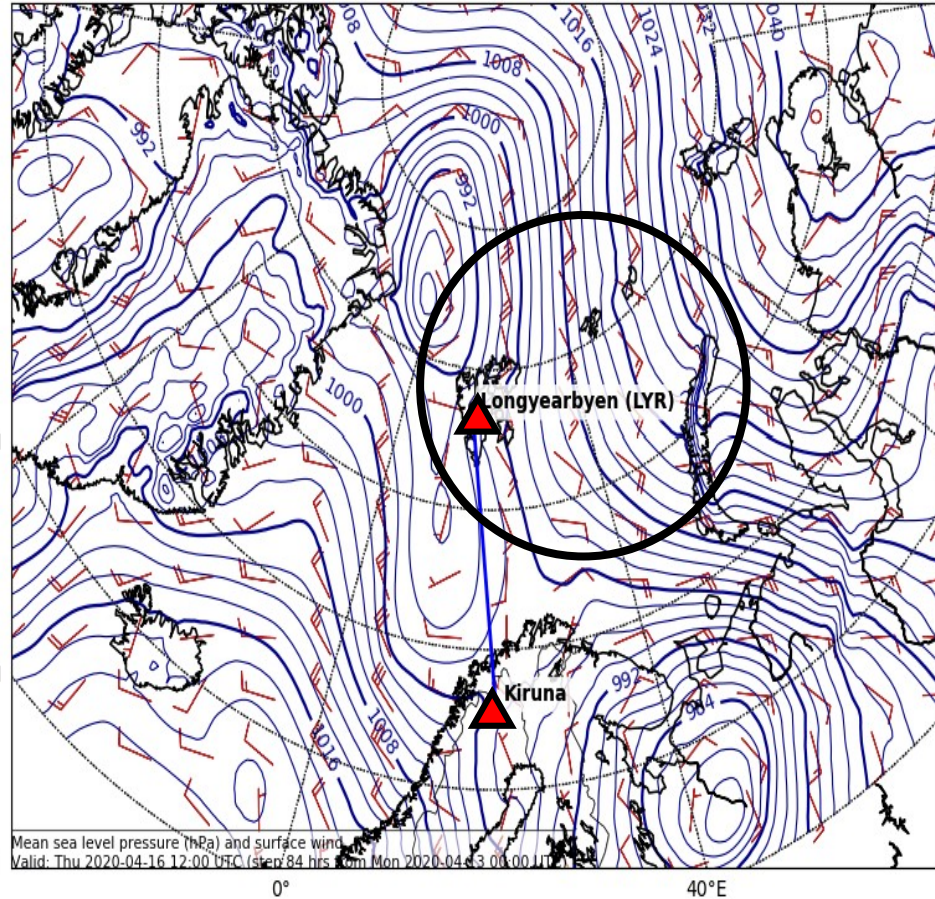


1 Geopot. (gpdm) und Temperatur (°C) Thu, 16/04/20 12:00 UTC

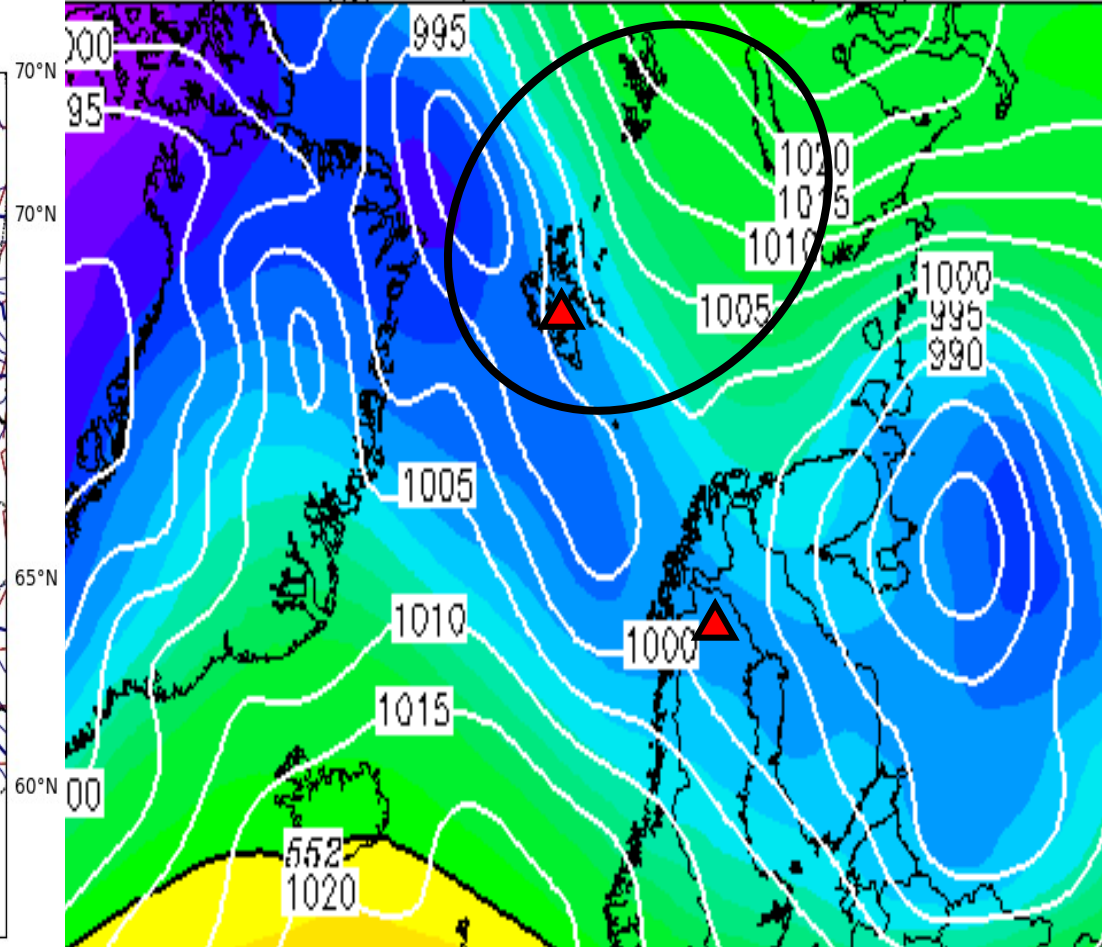


MSLP: ECMWF Forecast & CFS Analysis - 16/04/20, 12 UTC

Mean Sea Level Pressure (hPa)
Valid: Do 2020-04-16 12:00 UTC (step 84 hrs from Mo 2020-04-13 00:00 UTC)



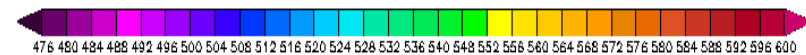
Geopot. (gpdm), Bodendruck (hPa) Thu, 16/04/20, 12 UTC



Data: CFS reanalysis 0.500°

(C) Wetterzentrale

www.wetterzentrale.de



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

Cloud Cover (0-1) (Total Cloud Cover)

Valid: Do 2020-04-16 12:00 UTC (step 84 hrs from Mo 2020-04-13 00:00 UTC)

