

Weather briefing

HALO-(AC)³

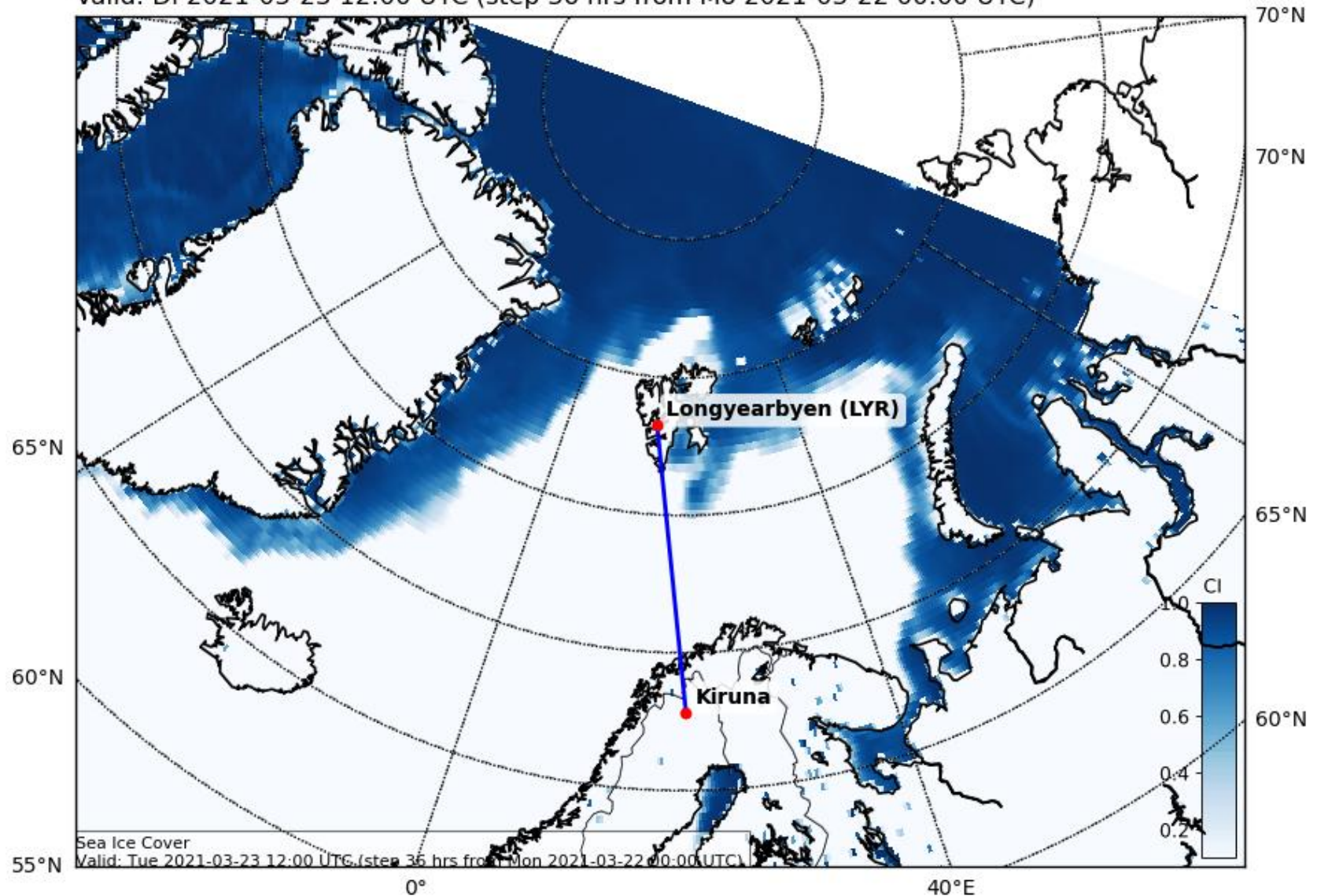
23 March 2021 – 08 UTC

Tuesday, 23 March 2021

Sea Ice Concentration (ECMWF): 23/03, 12 UTC

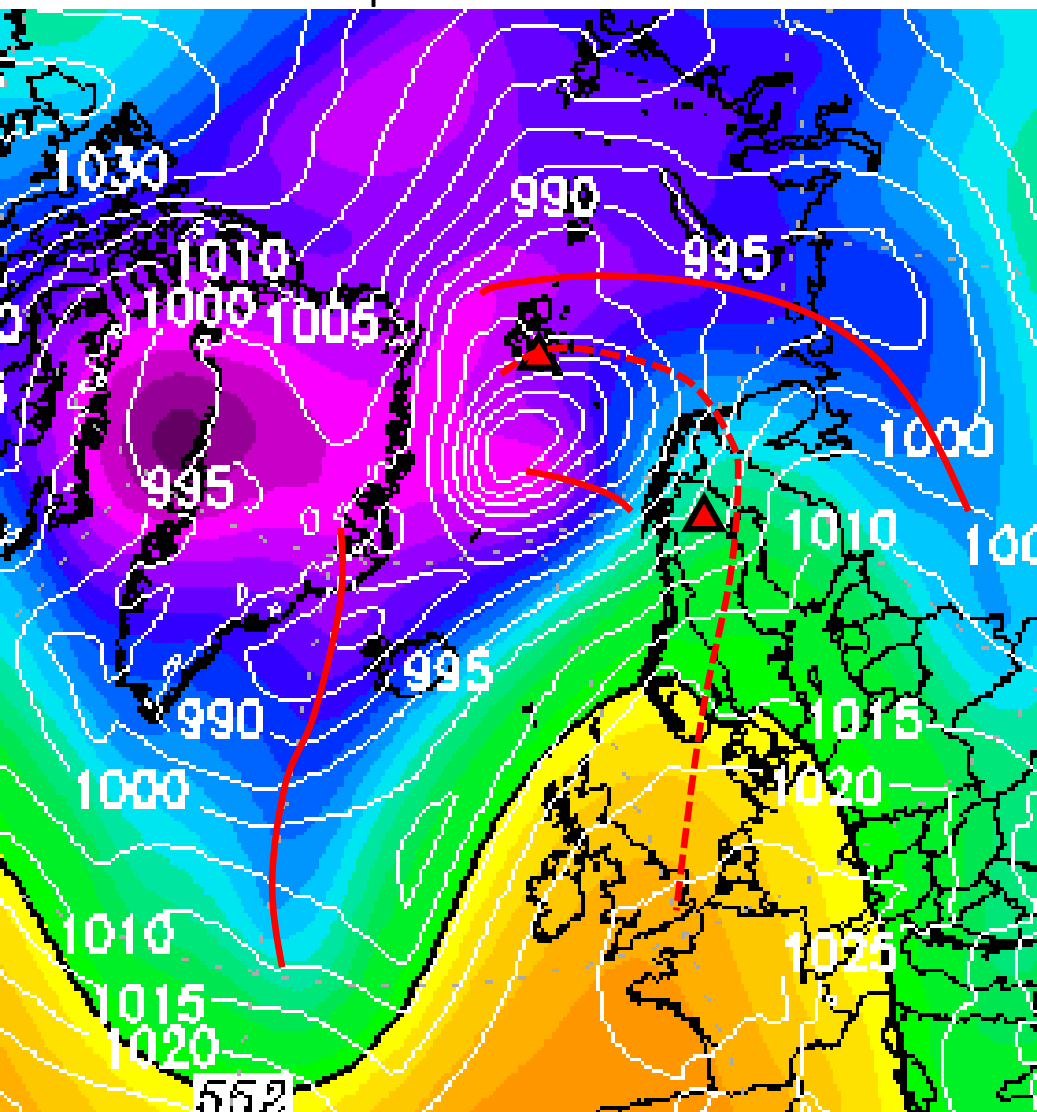
Sea Ice Cover Fraction (0-1) (pseudocolor plot)

Valid: Di 2021-03-23 12:00 UTC (step 36 hrs from Mo 2021-03-22 00:00 UTC)

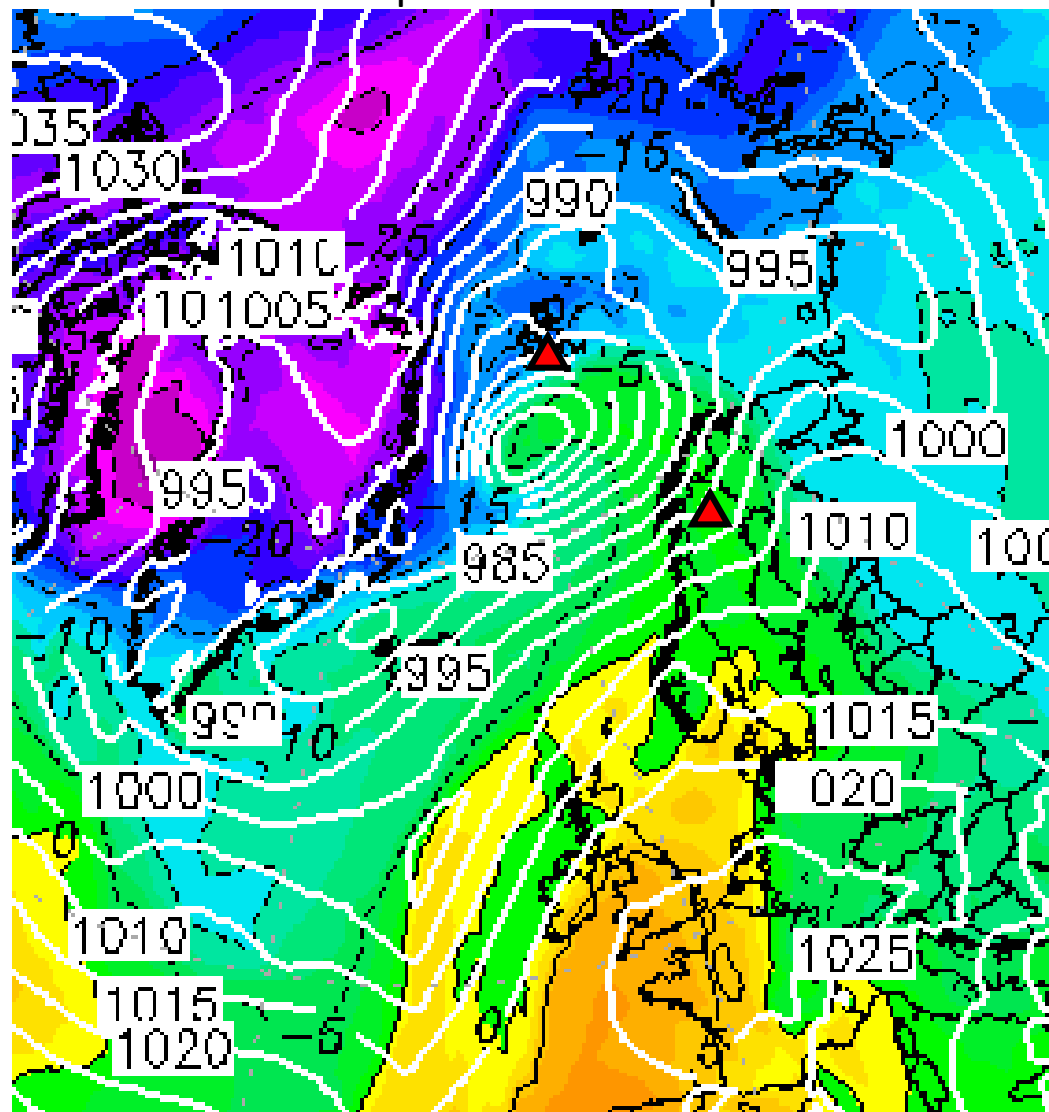


General weather situation (ECMWF): Today, 23/03, 00 UTC

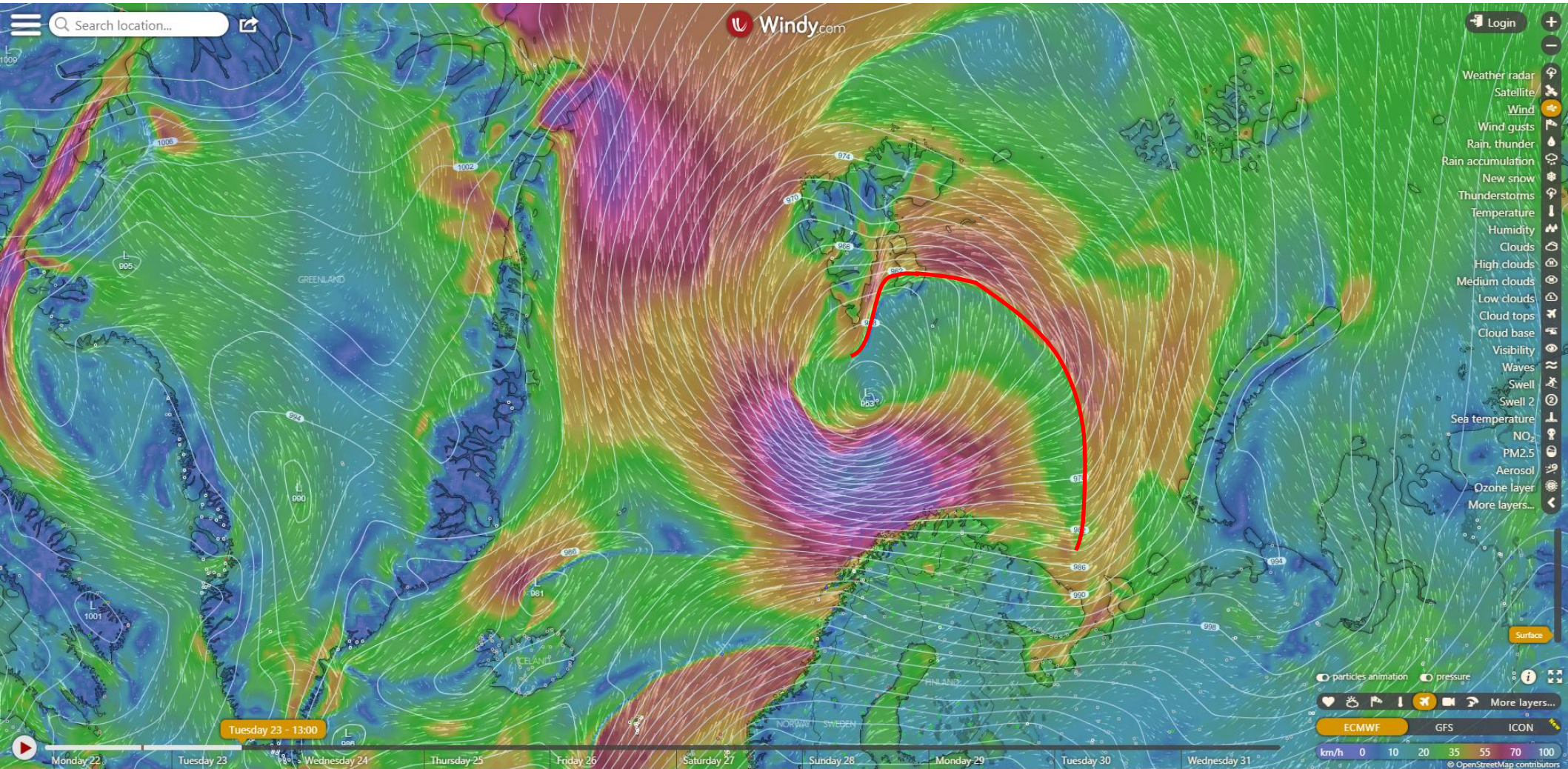
500hPa Geopotential & Surface Pressure



850hPa Geopotential & Temperature



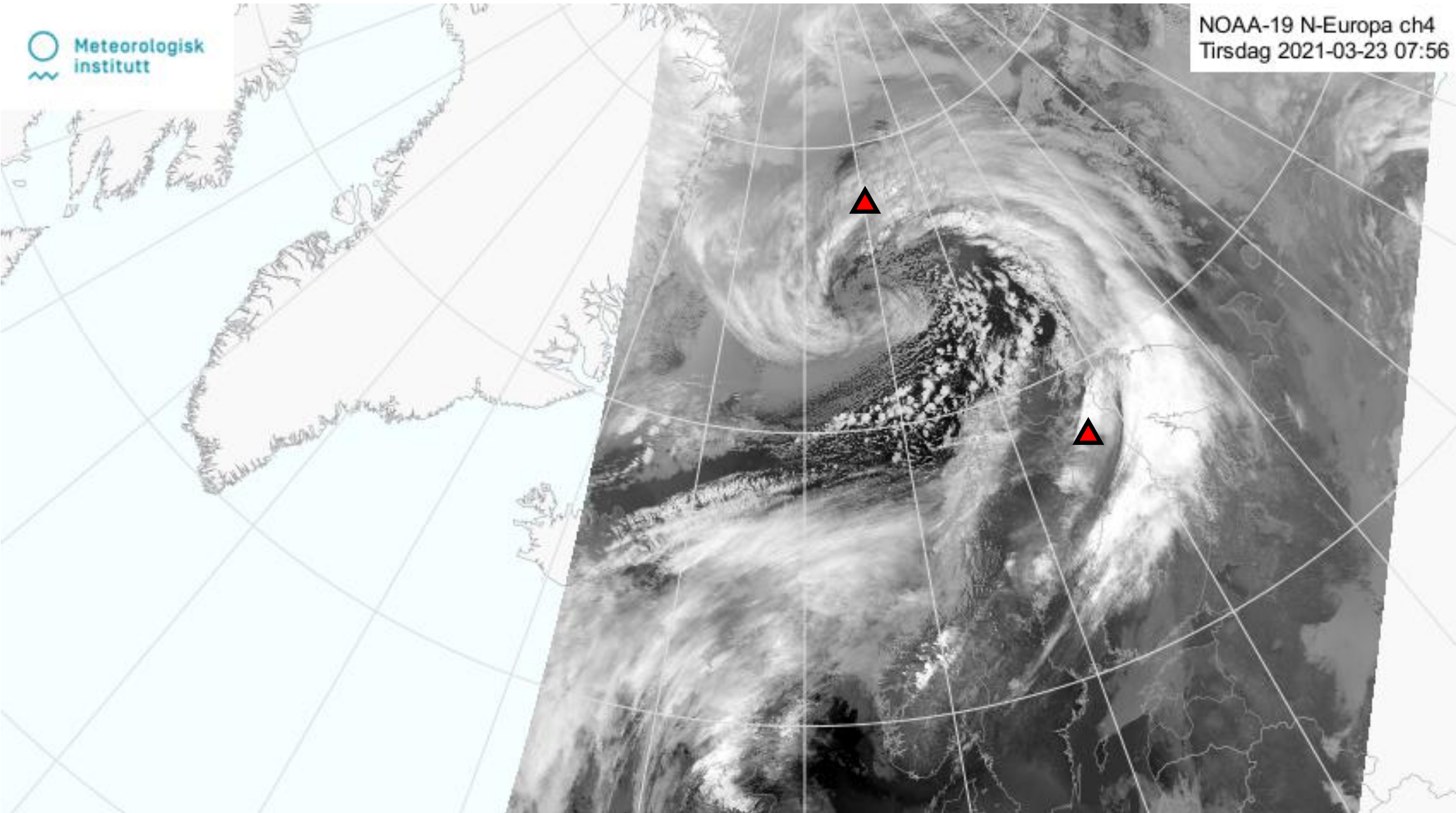
Surface wind: 23/03, 12 UTC



Satellite: 23/03, before 08 UTC

Meteorologisk
institutt

NOAA-19 N-Europa ch4
Tirsdag 2021-03-23 07:56



300°

310°

320°

330°

340°

350°



RAMA

VISIT PORT OF LONGYEAR 360

VISIT TURISTKAIA 360



< 23.03.21 >
08:30



BOREALIS
ANORAMA

METAR: 23/03, before 08 UTC

Kiruna: ESNQ 230720Z AUTO 24013KT 9999 NCD 04/M03 Q0989

wind, Visibility, clouds, Temp & dewpoint, Pressure

ENSB: LYR: 230720Z 12029G40KT 5000 -SN DRSN FEW001
BKN025 M07/M10 Q0965 TEMPO 4000 -SN BLSN RMK WIND
1400FT 11040KT

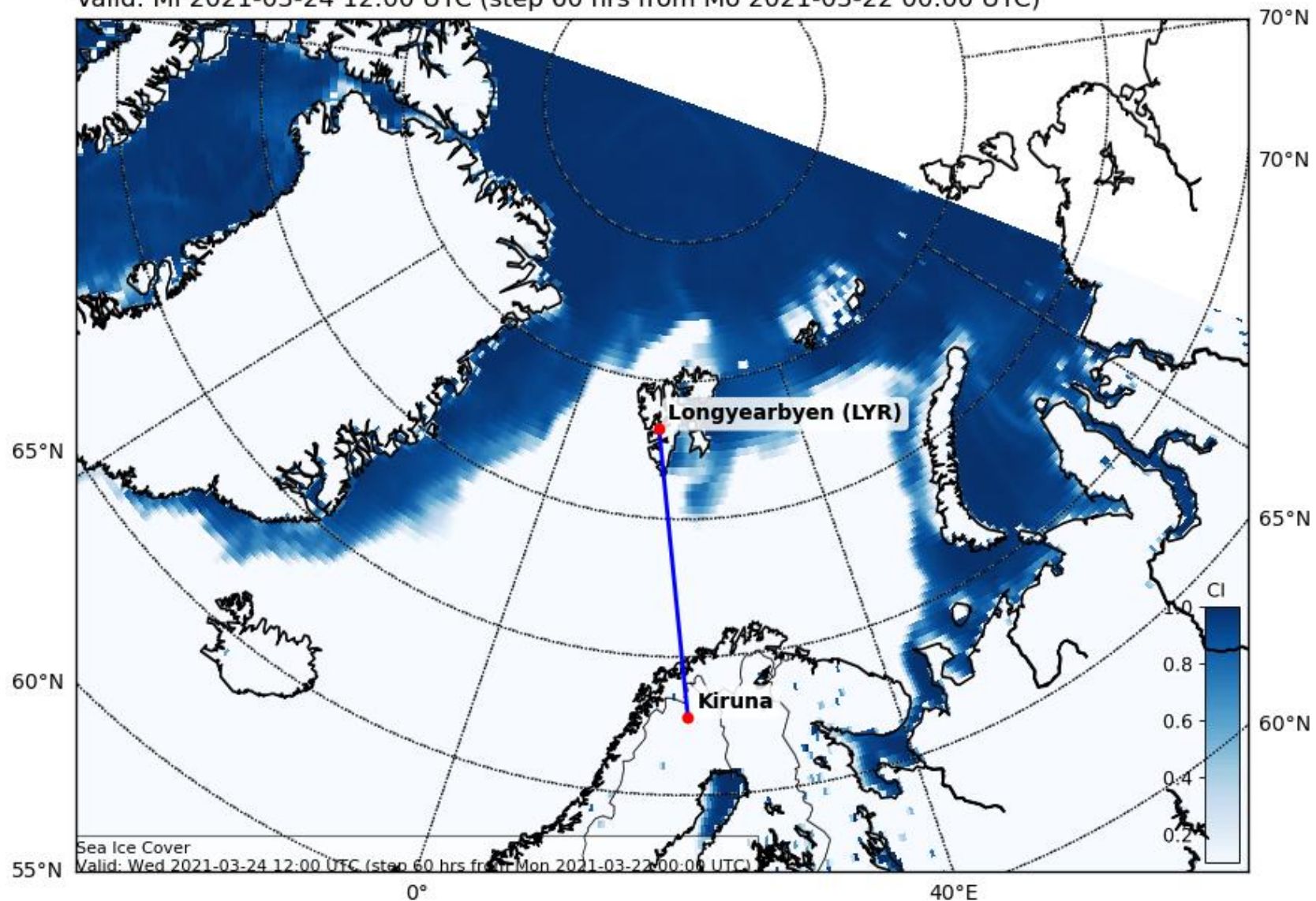
Temporarily, Remark

Wednesday, 24 March 2021

Sea Ice Concentration (ECMWF): 24/03, 12 UTC

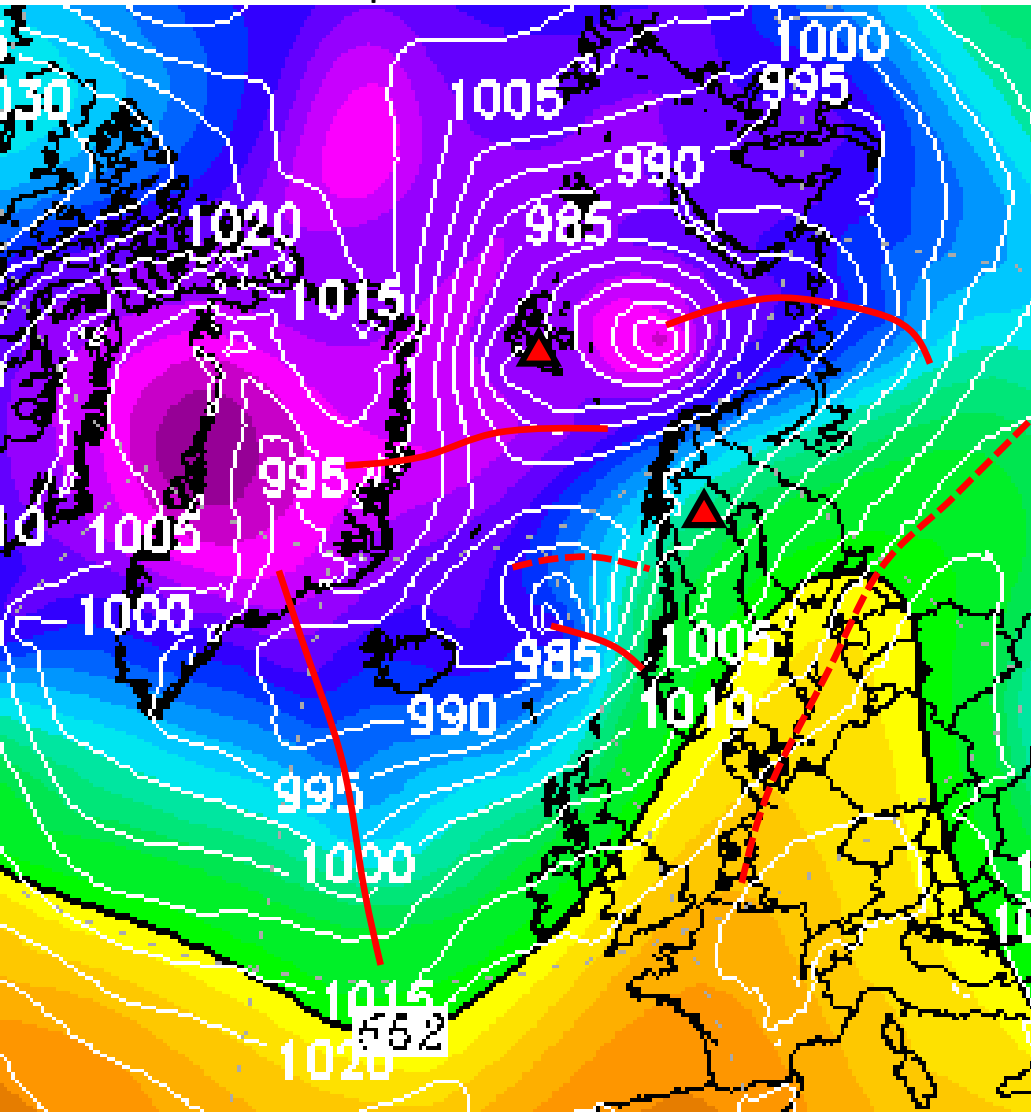
Sea Ice Cover Fraction (0-1) (pseudocolor plot)

Valid: Mi 2021-03-24 12:00 UTC (step 60 hrs from Mo 2021-03-22 00:00 UTC)

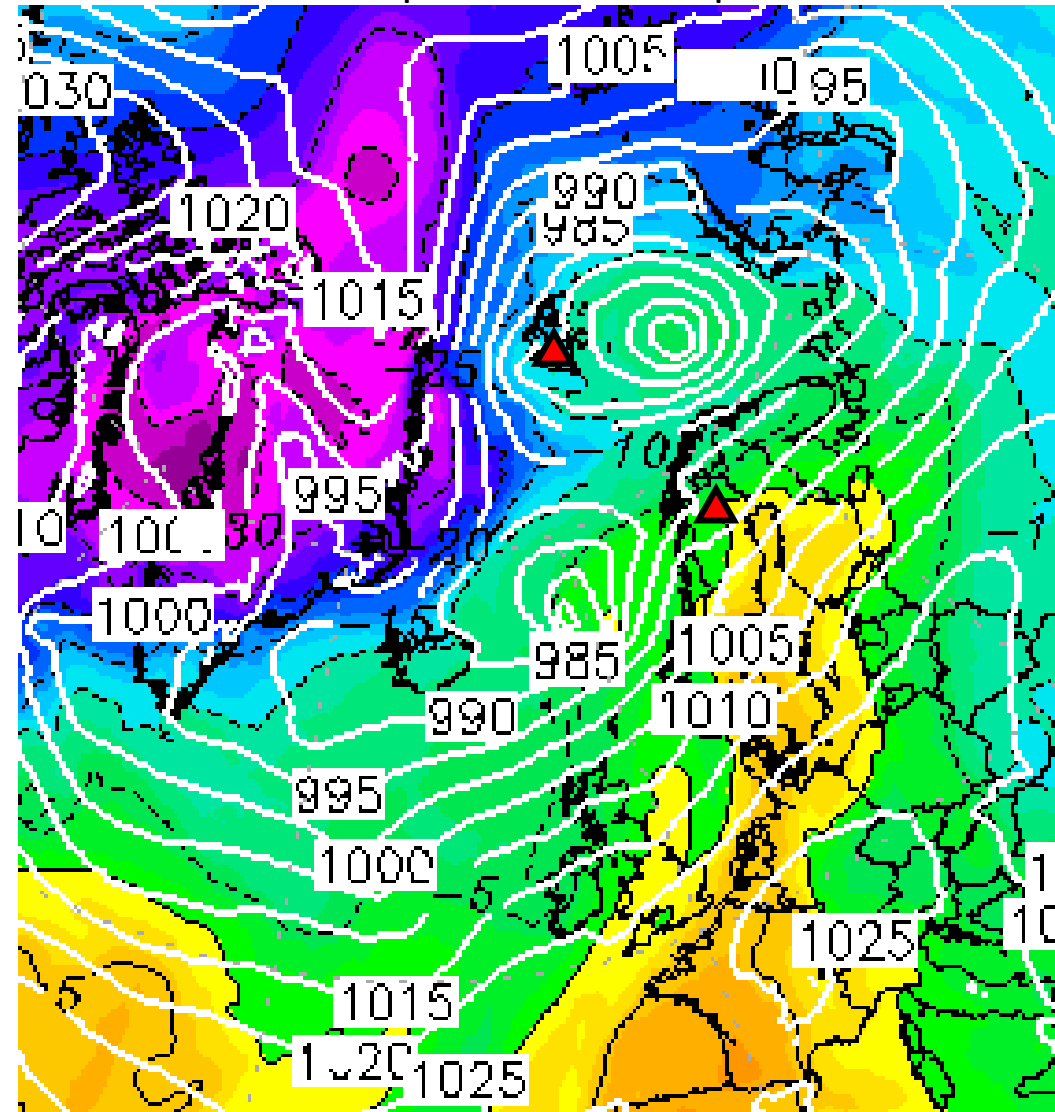


General weather situation (ECMWF): Tomorrow, 24/03, 00 UTC

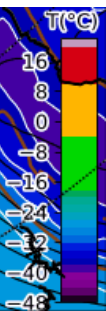
500hPa Geopotential & Surface Pressure



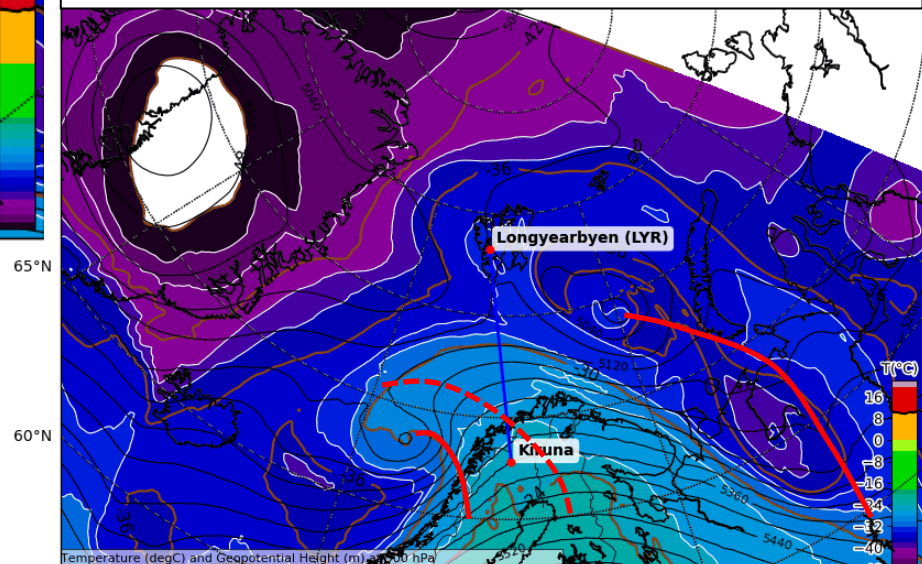
850hPa Geopotential & Temperature



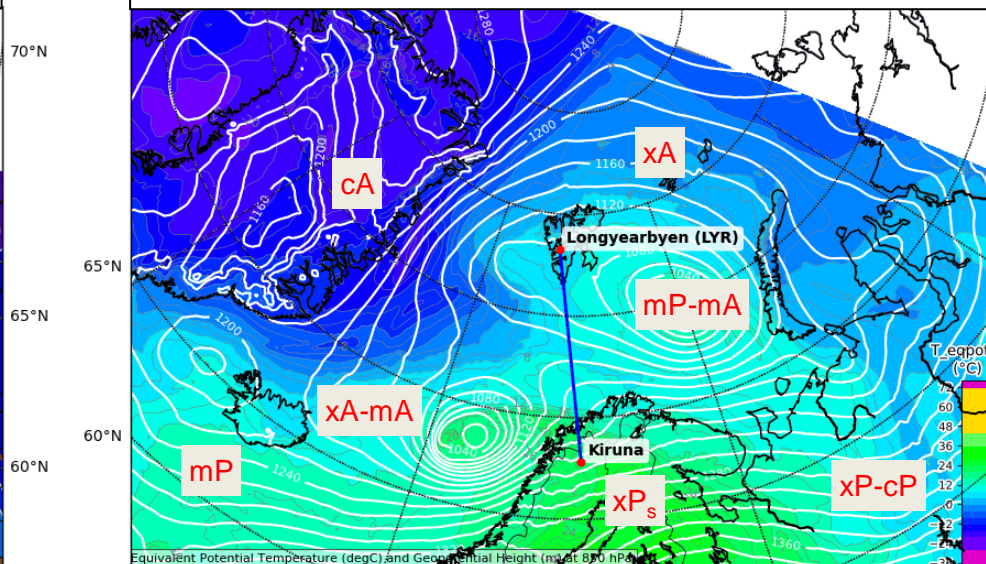
General weather situation (EZ): Wed. 24/03, 06 UTC



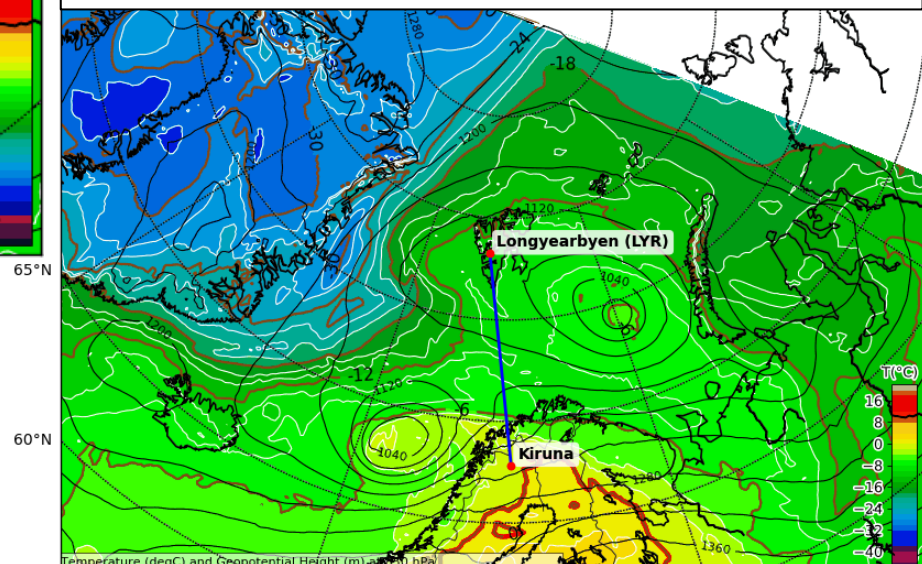
500hPa: Temperature & Geopotential



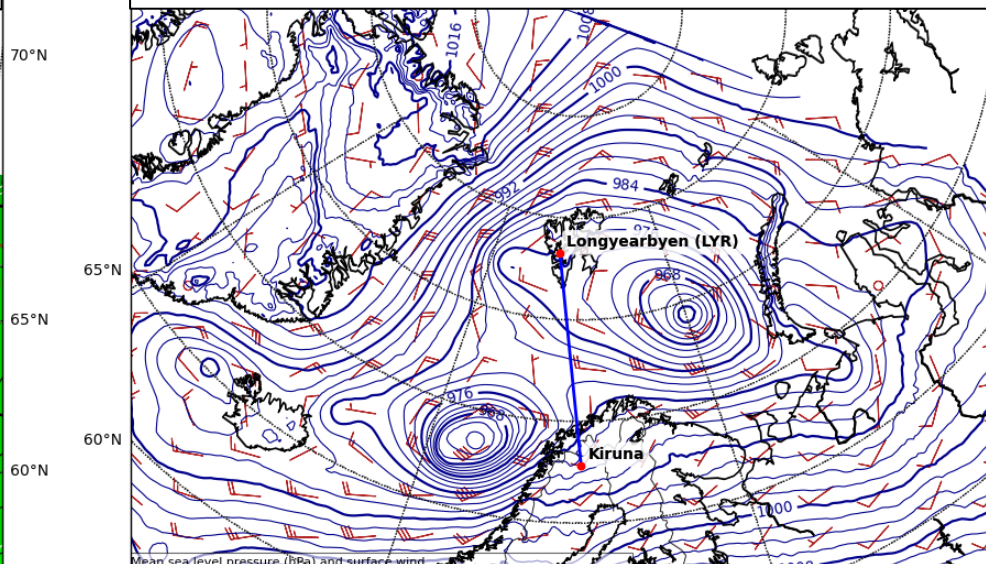
850hPa: Equiv. pot. Temperature & Geopotential



850hPa: Temperature & Geopotential



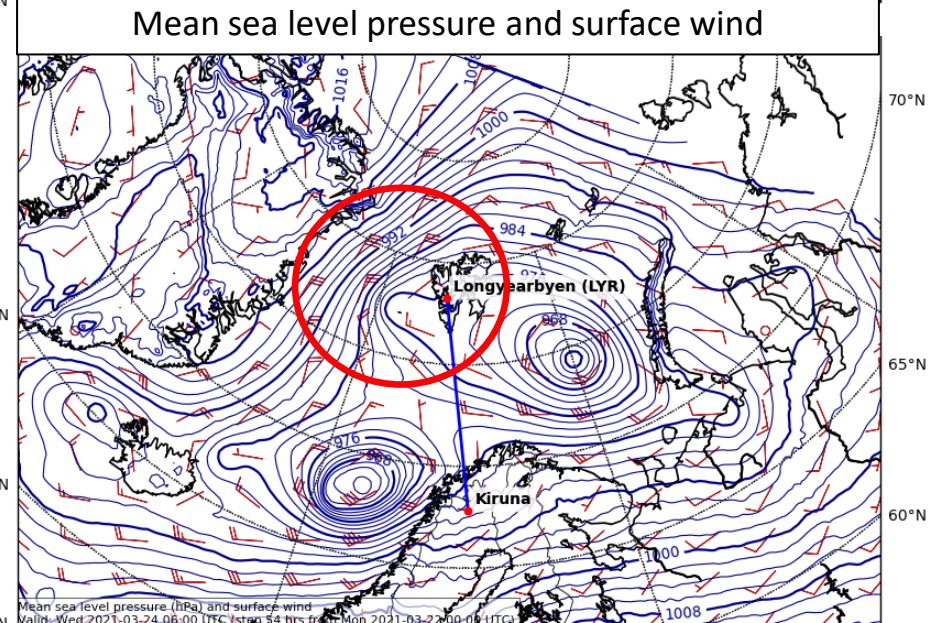
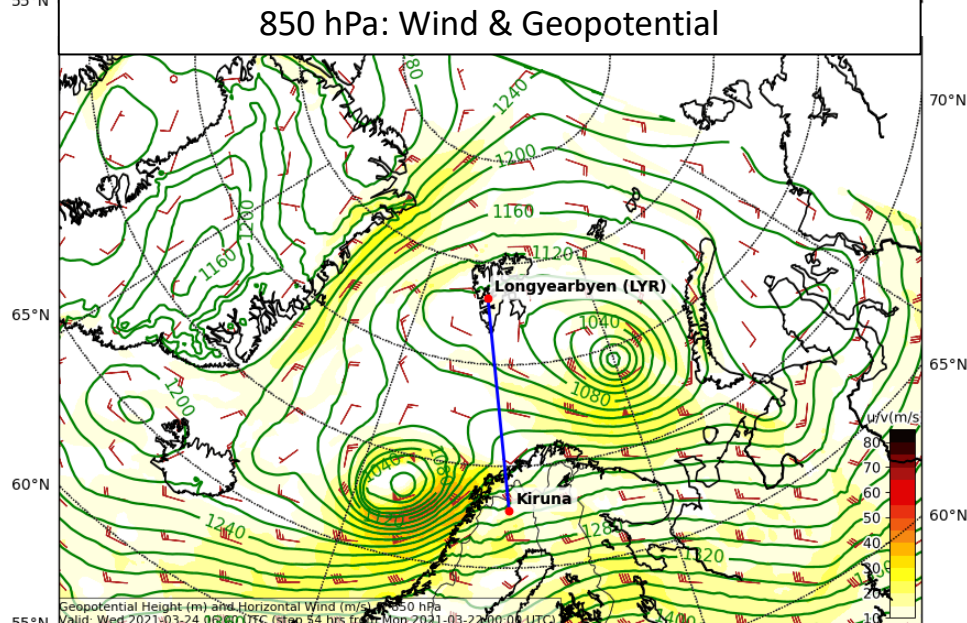
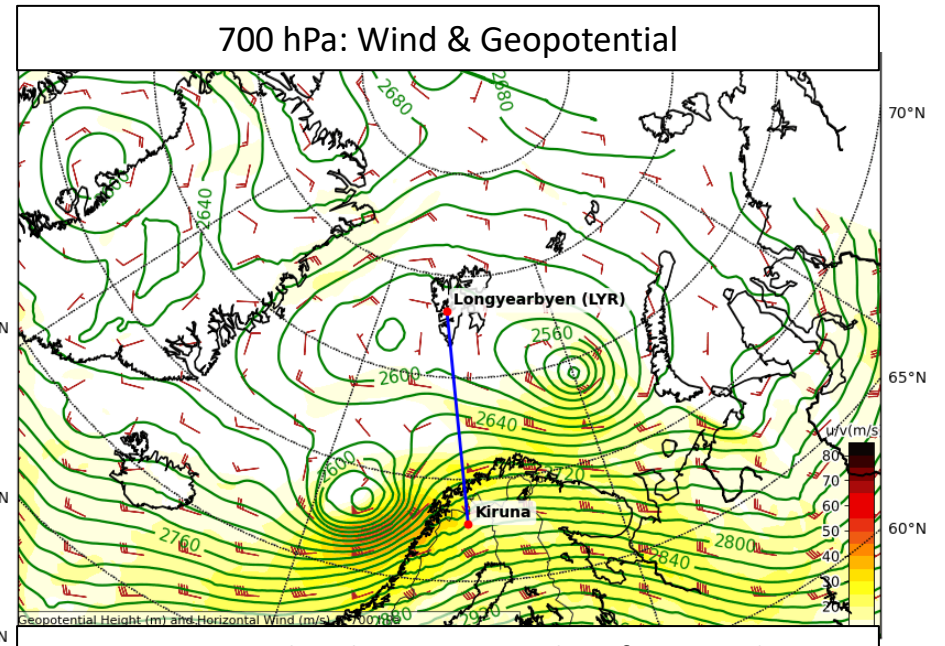
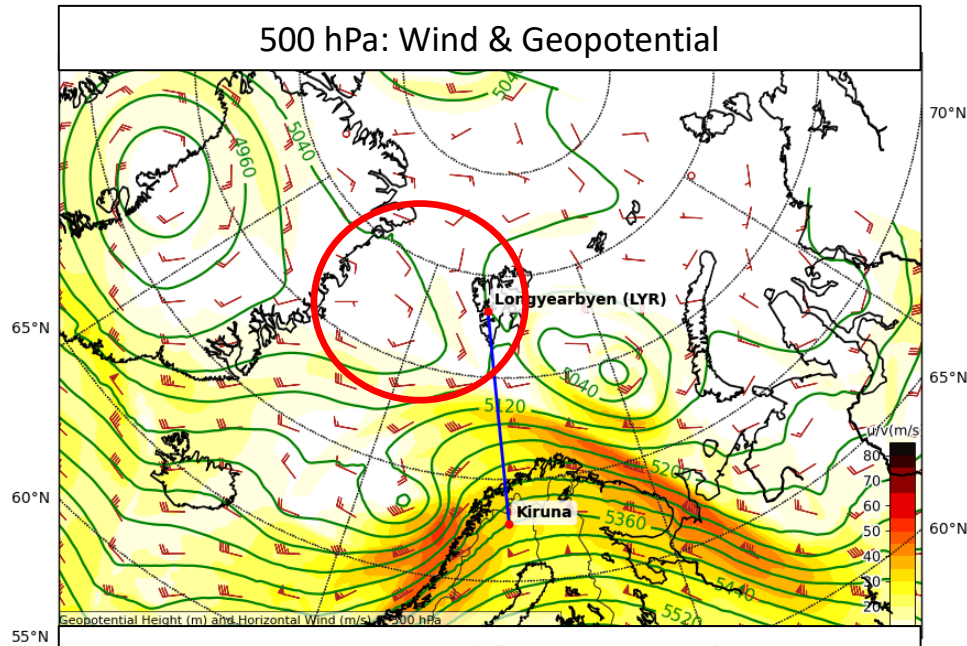
Mean sea level pressure and surface wind



Temperature (degC) and Geopotential Height (m) at 500 hPa
Valid: Wed 2021-03-24 06:00 UTC (step 54 hrs from Mon 2021-03-22 00:00 UTC)

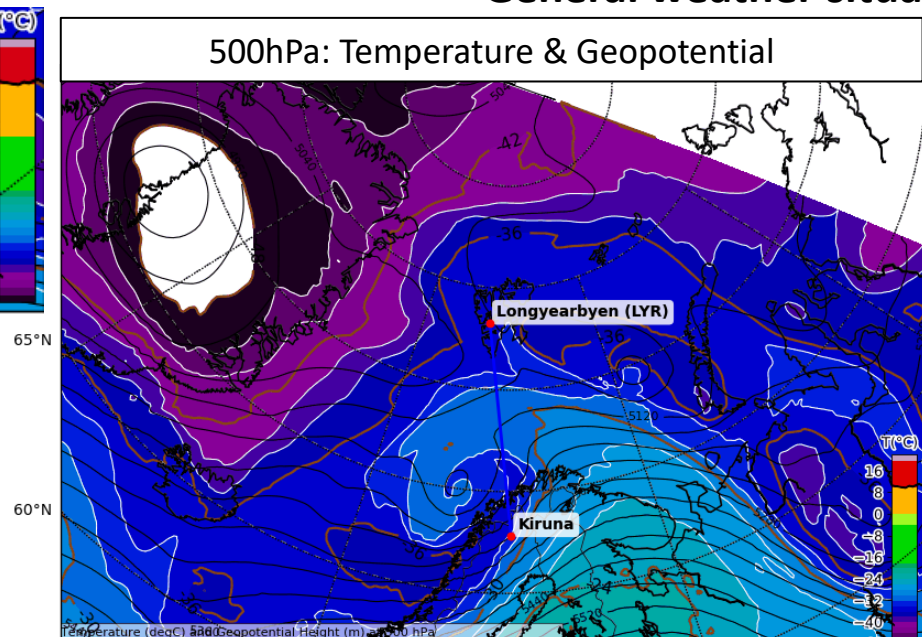
Mean sea level pressure (hPa) and surface wind
Valid: Wed 2021-03-24 06:00 UTC (step 54 hrs from Mon 2021-03-22 00:00 UTC)

Winds (EZ): Wed. 24/03, 06 UTC

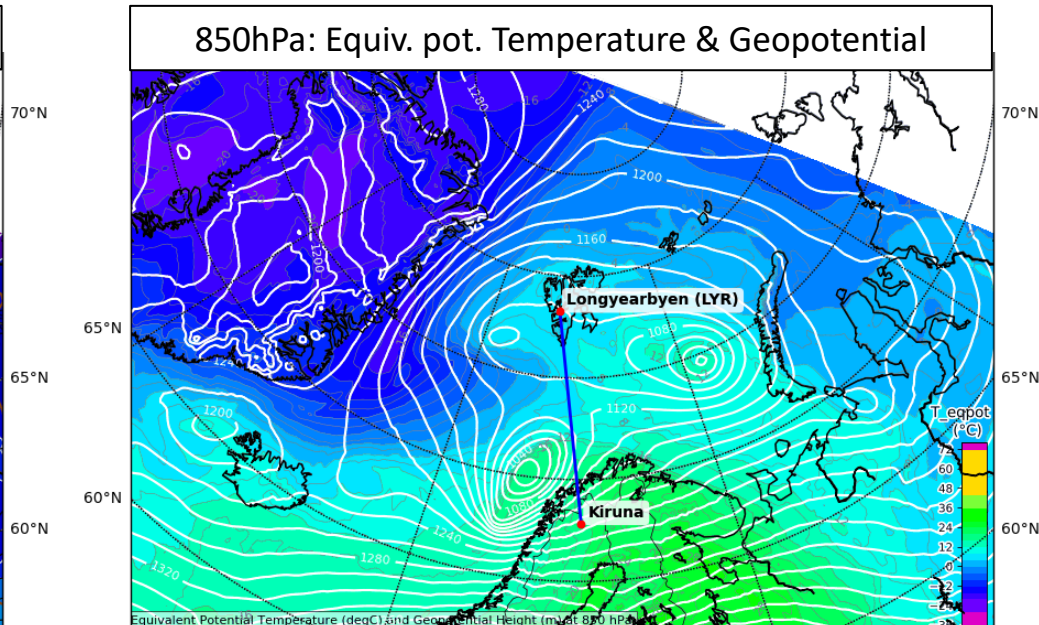


General weather situation (EZ): Wed. 24/03, 12 UTC

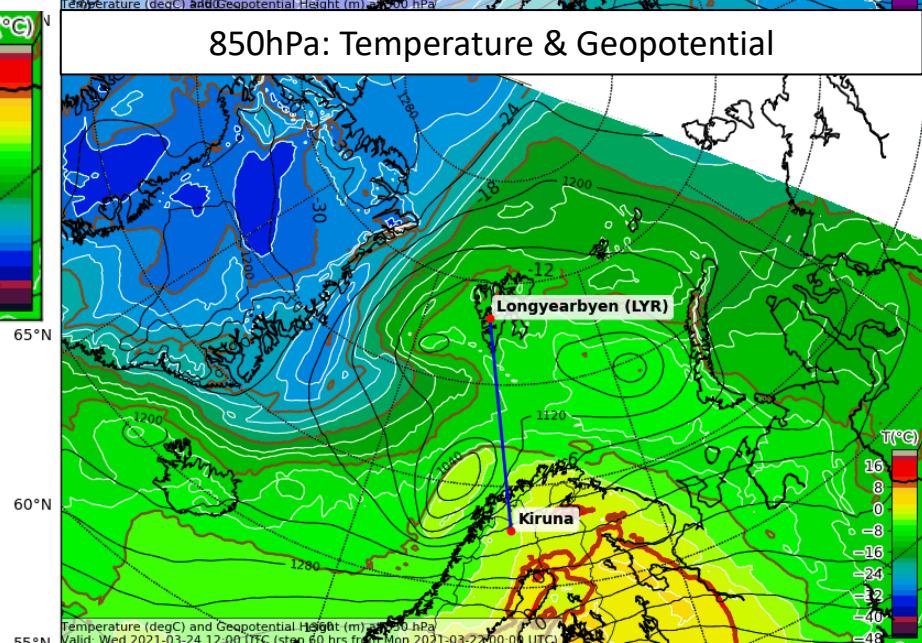
500hPa: Temperature & Geopotential



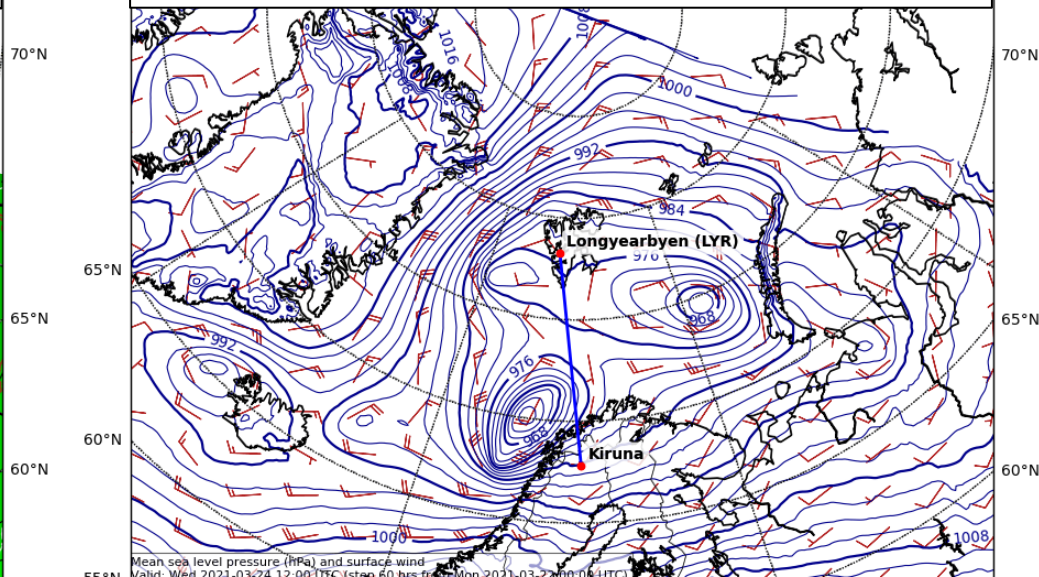
850hPa: Equiv. pot. Temperature & Geopotential



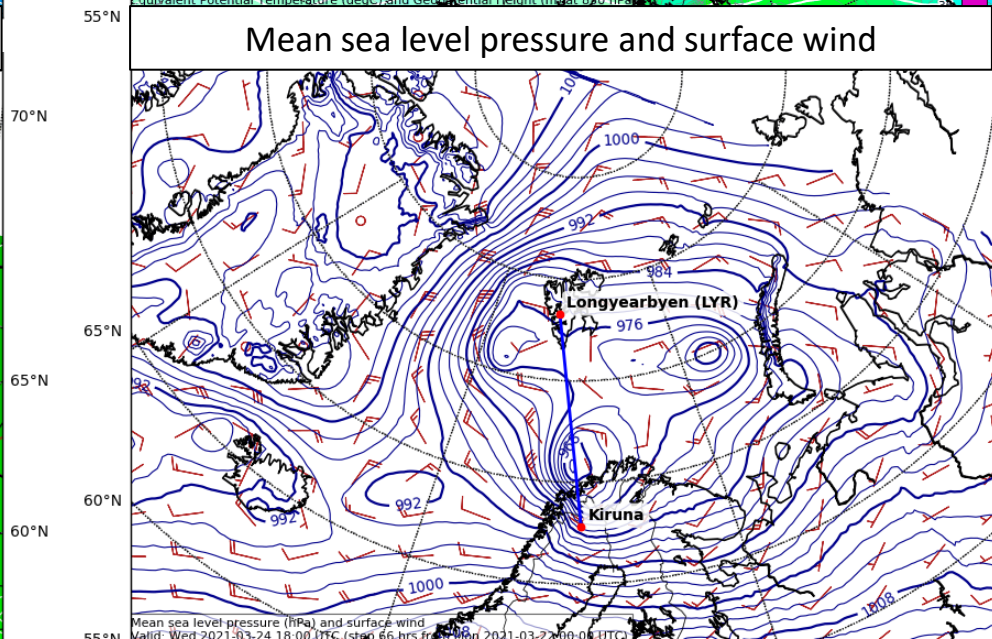
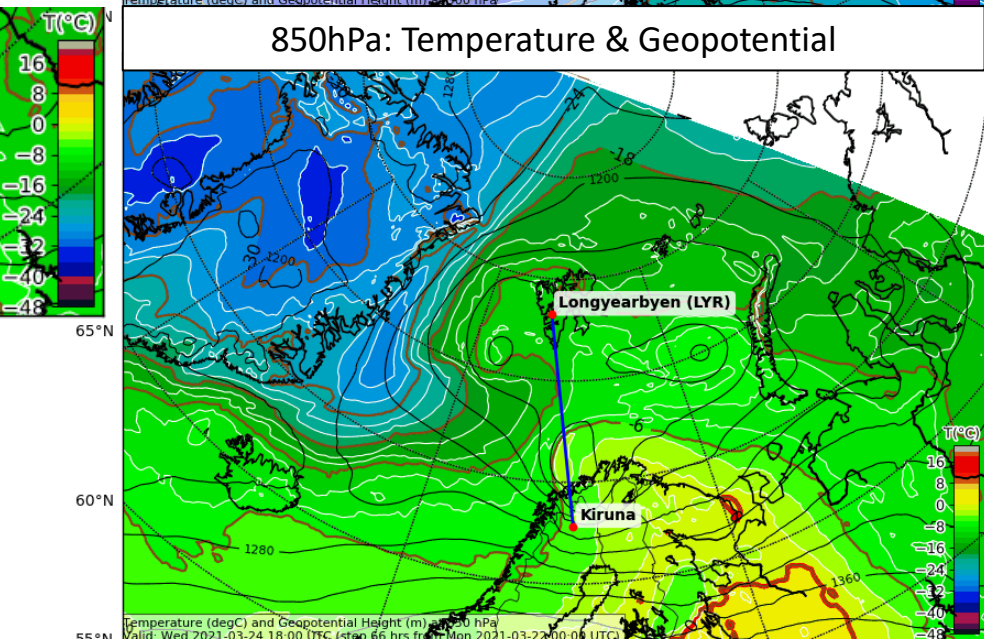
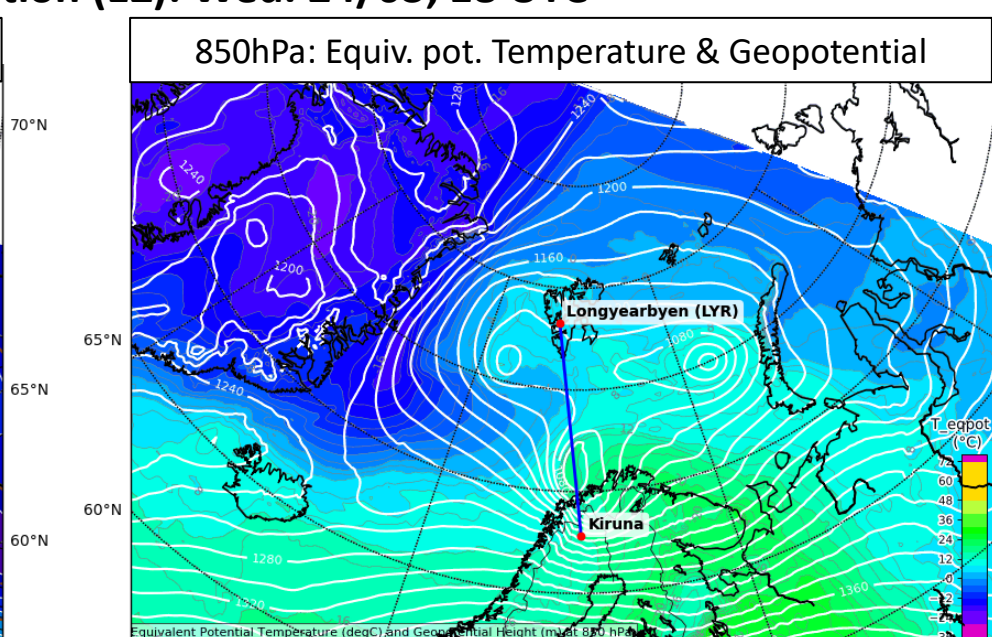
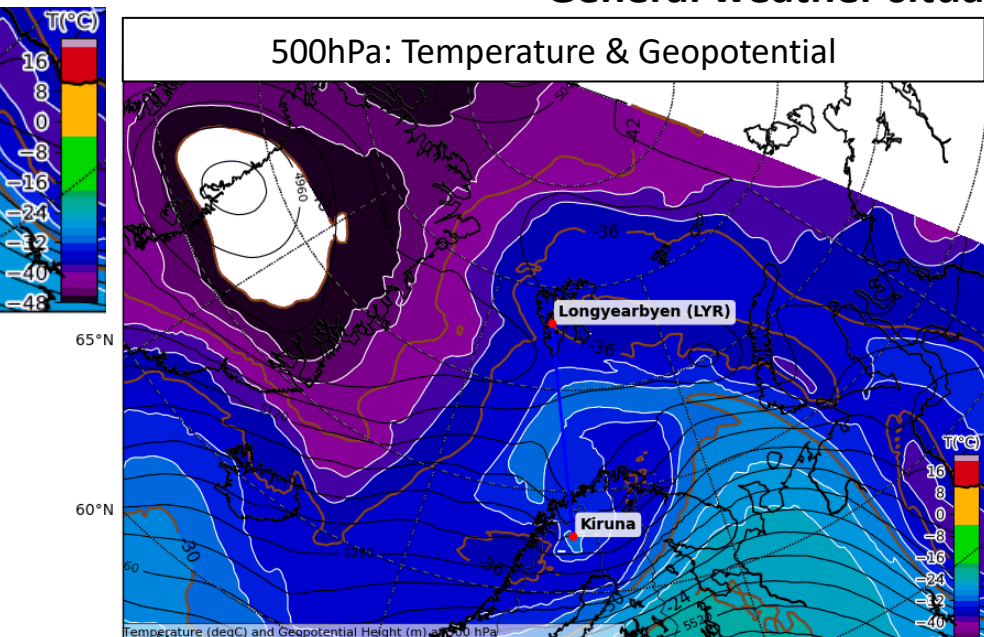
850hPa: Temperature & Geopotential



Mean sea level pressure and surface wind

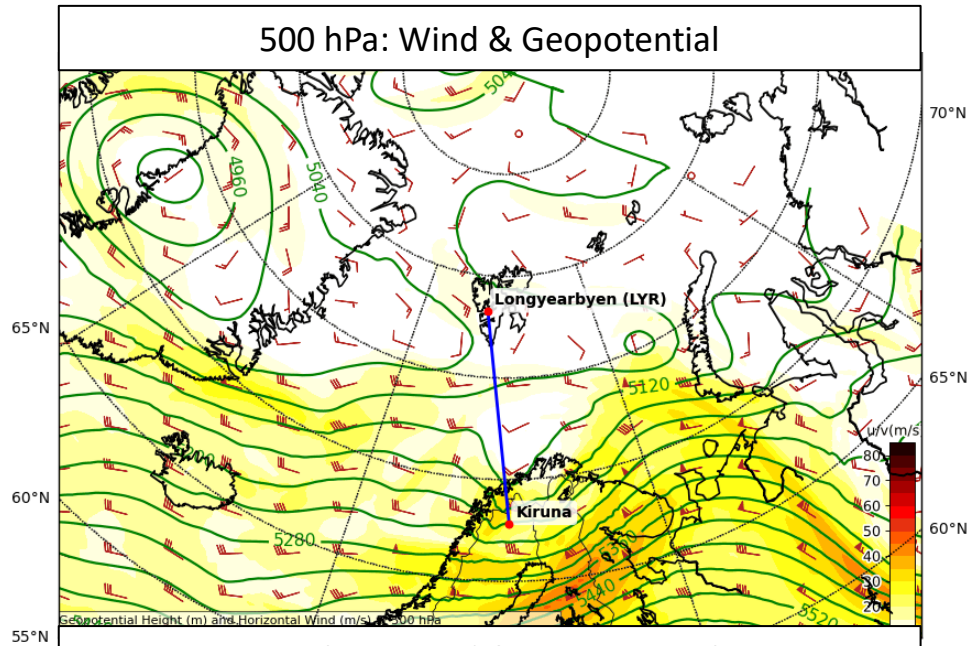


General weather situation (EZ): Wed. 24/03, 18 UTC

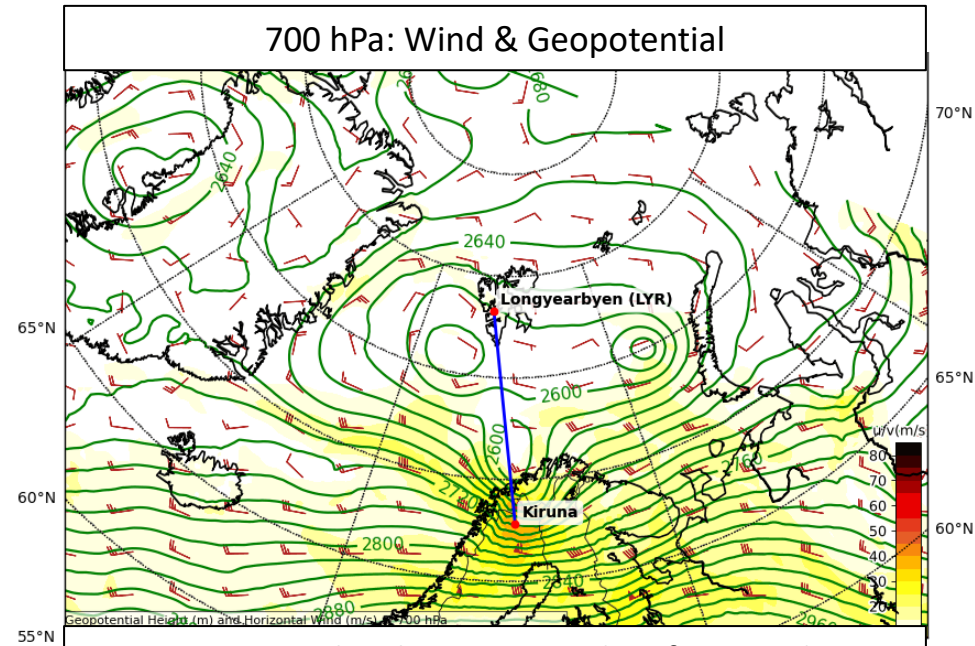


Winds (EZ): Wed. 24/03, 18 UTC

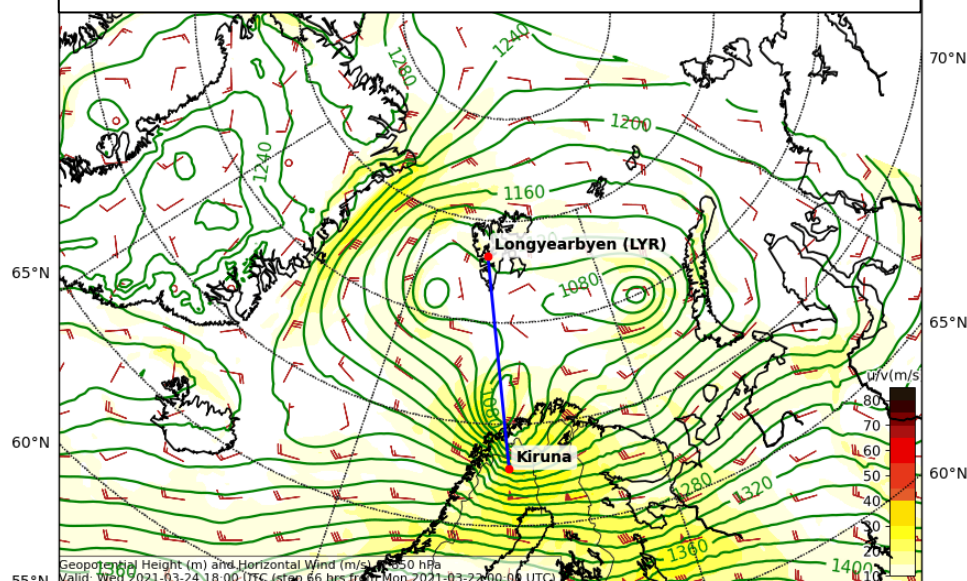
500 hPa: Wind & Geopotential



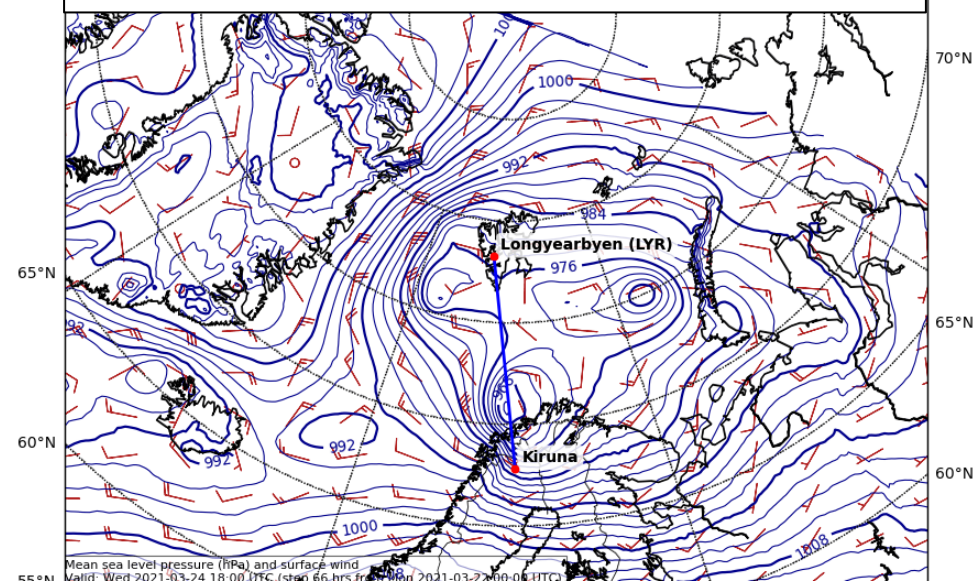
700 hPa: Wind & Geopotential



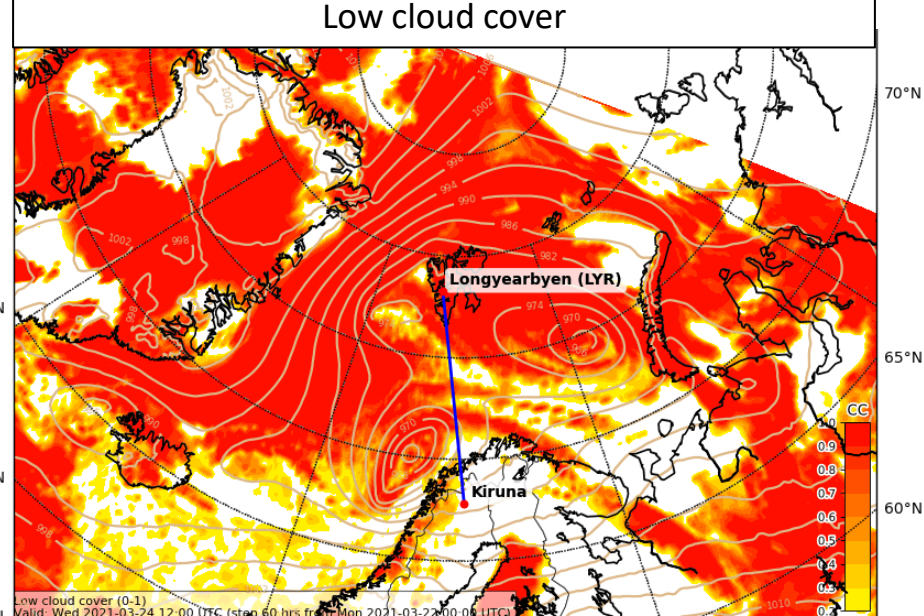
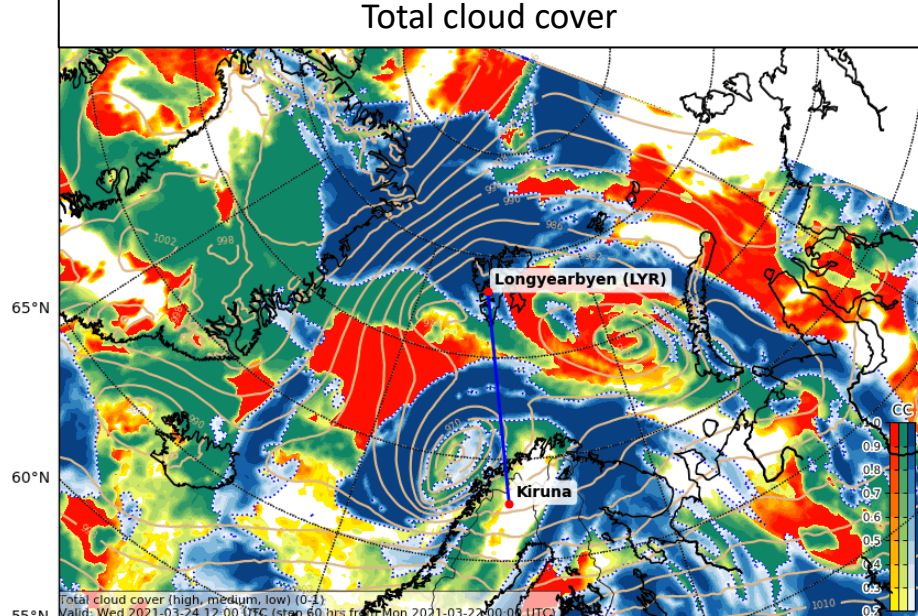
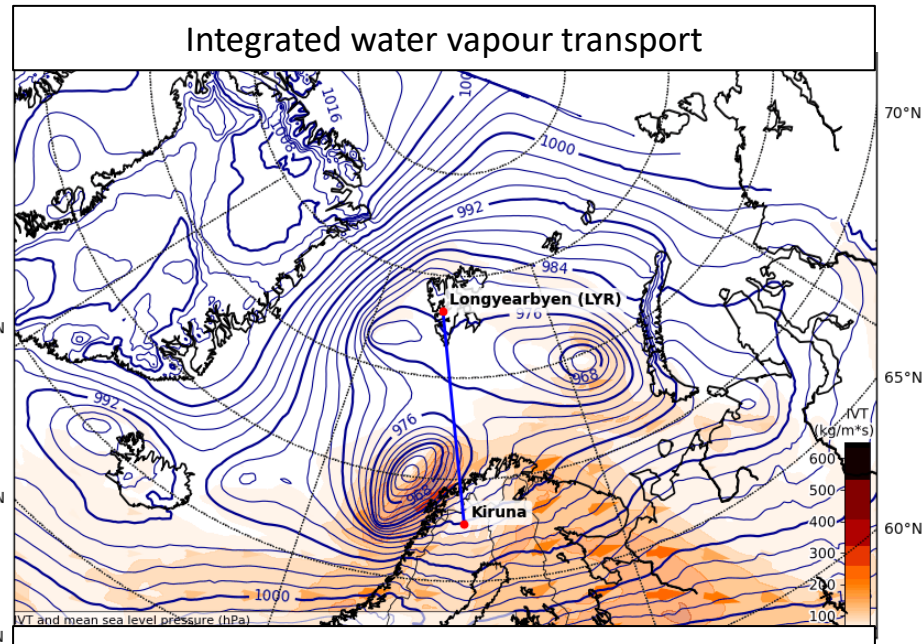
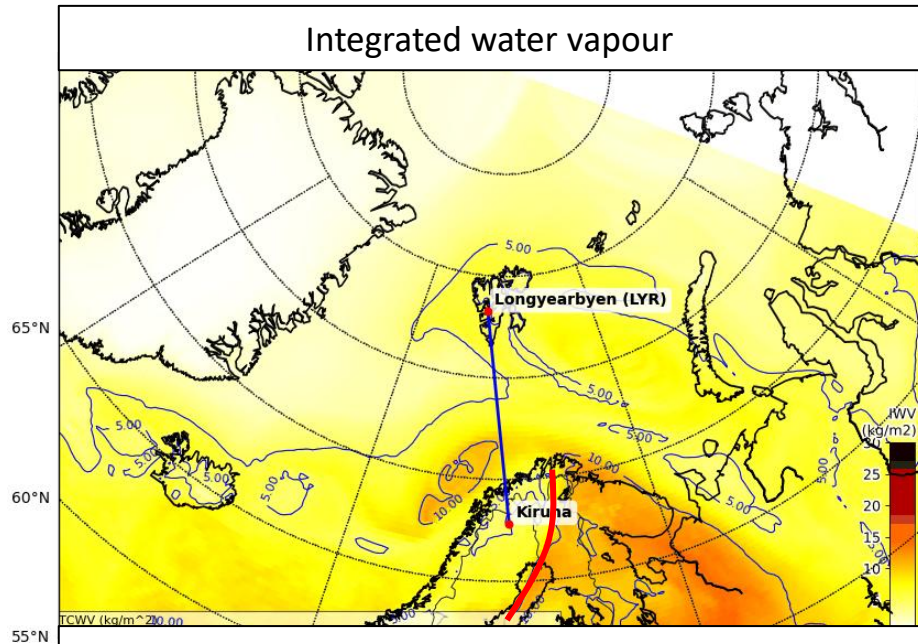
850 hPa: Wind & Geopotential



Mean sea level pressure and surface wind



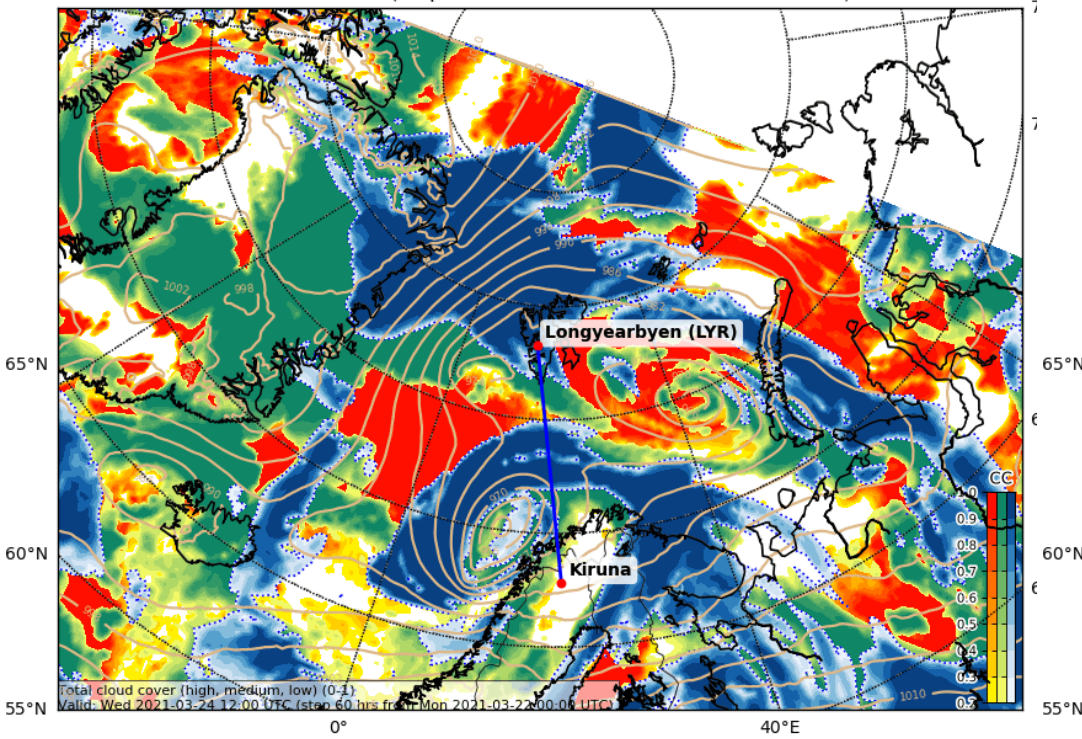
Water vapour and clouds (EZ): Wed. 24/03, 12 UTC



Clouds (ECMWF vs ICON): Wed. 25/03, 12 UTC

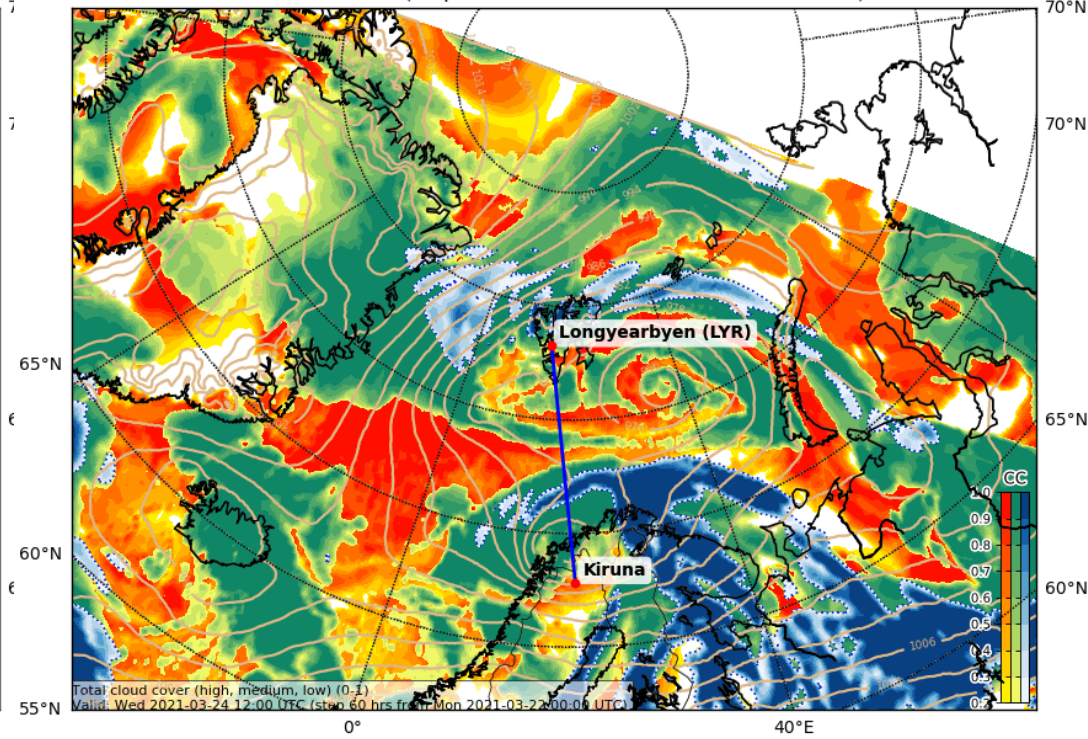
Cloud Cover (0-1) (Total Cloud Cover)

Valid: Mi 2021-03-24 12:00 UTC (step 60 hrs from Mo 2021-03-22 00:00 UTC)



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

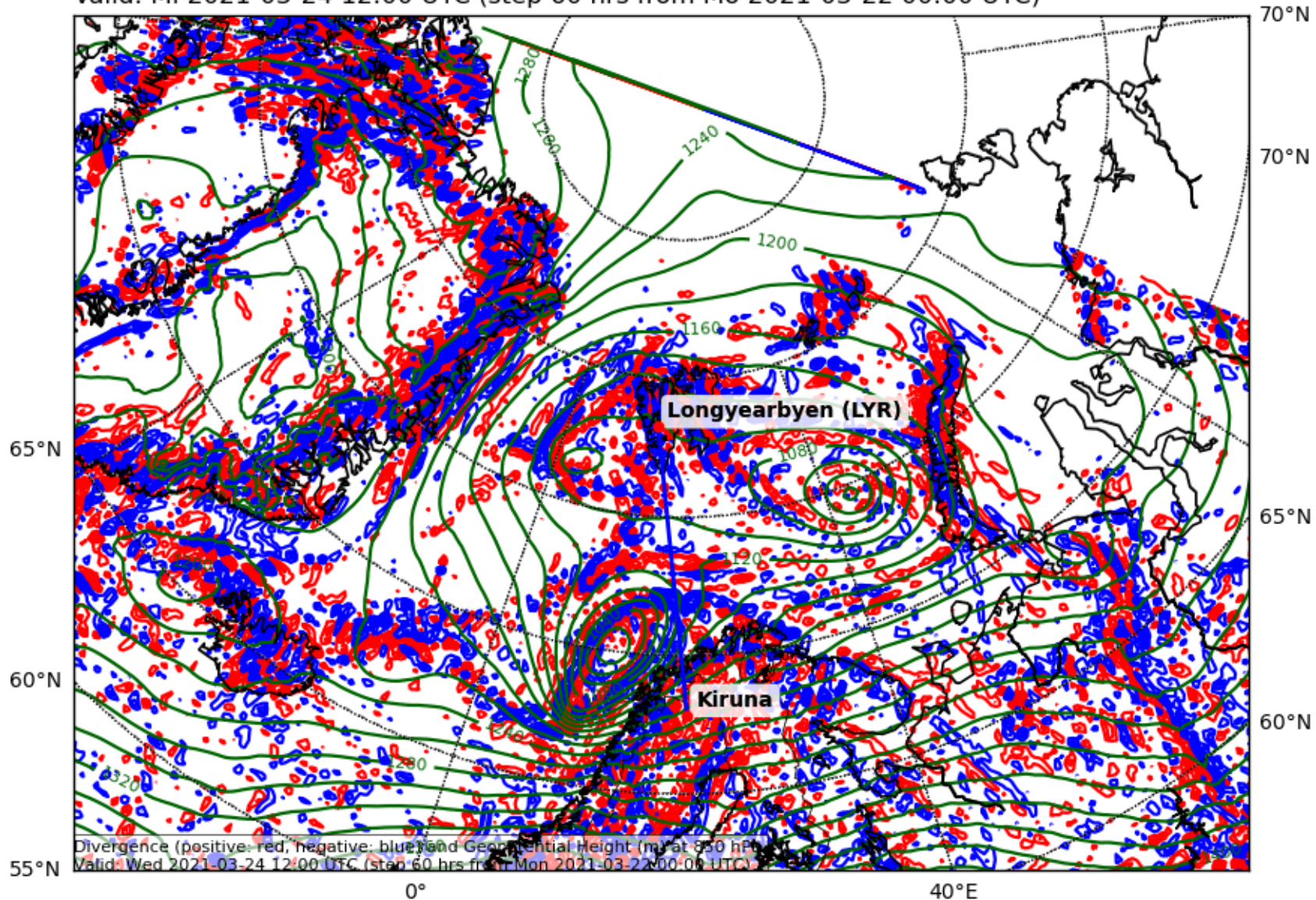
Valid: Mi 2021-03-24 12:00 UTC (step 60 hrs from Mo 2021-03-22 00:00 UTC)



850 hPa Divergence (red) and Convergence (blue) (EZ): Wed. 25/03, 12 UTC

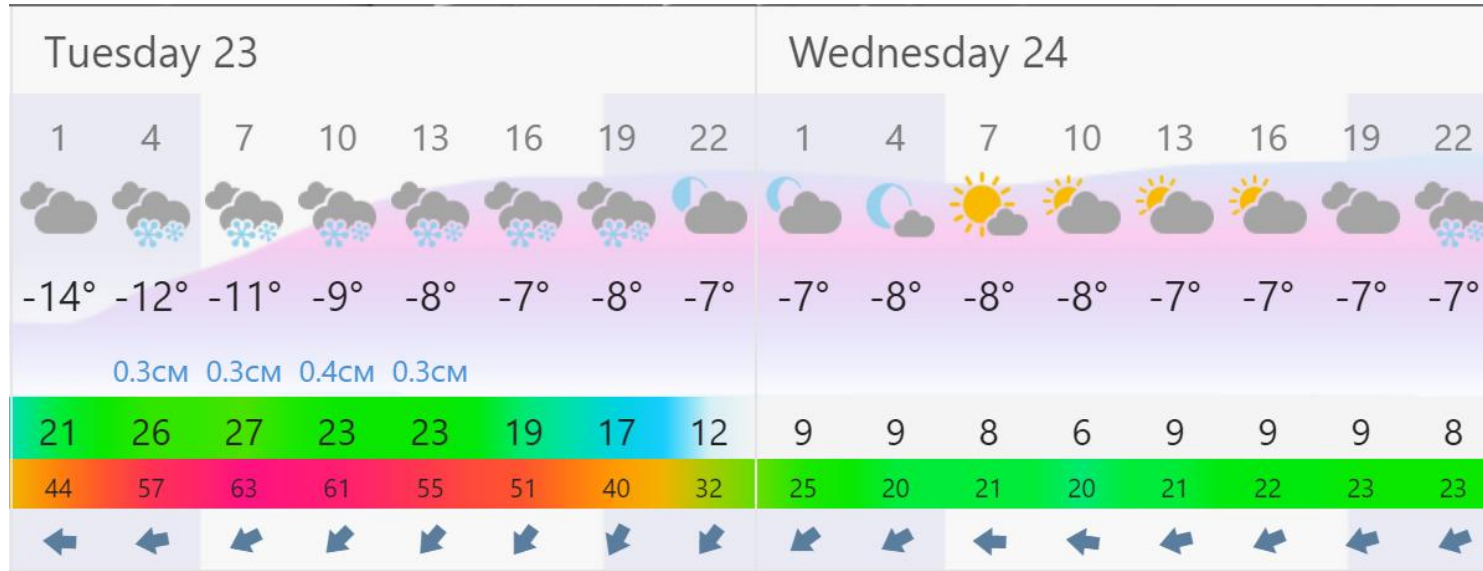
Divergence and Geopotential Height (m) at 850.0 (Pa)

Valid: Mi 2021-03-24 12:00 UTC (step 60 hrs from Mo 2021-03-22 00:00 UTC)

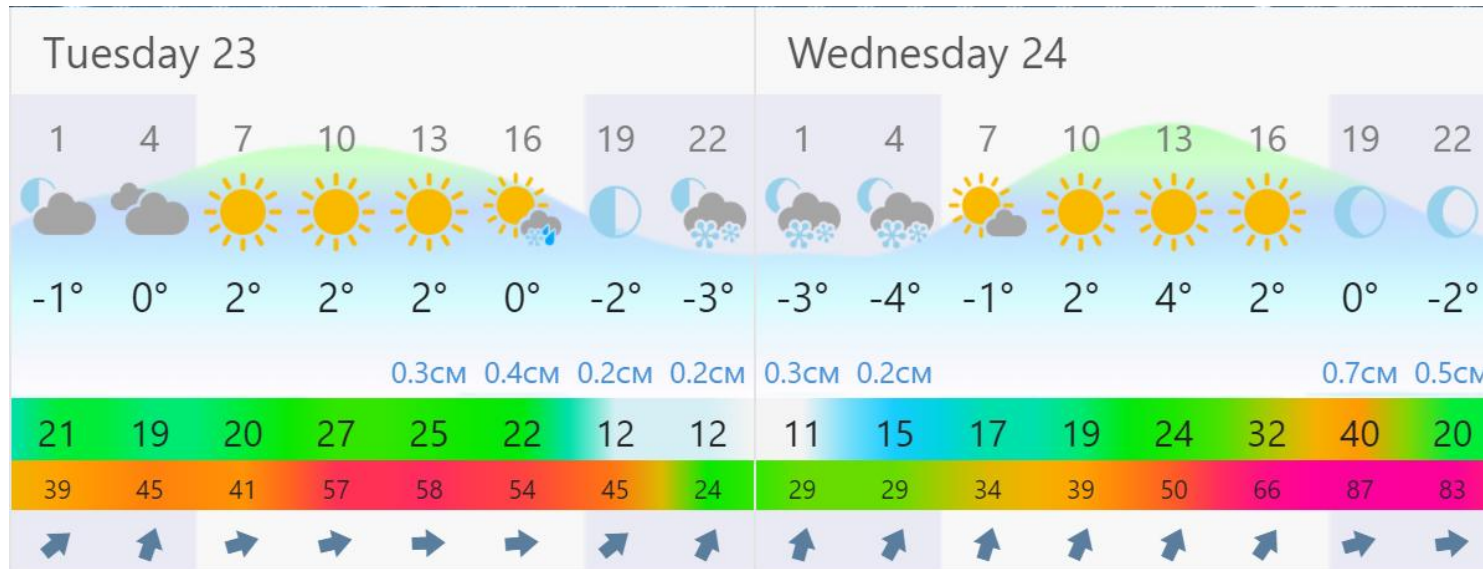


Meteograms LYR (top) and Kiruna (bottom) (ECMWF)

LYR



KIR



Summary

- Cold air advection in the Fram Strait but "sea ice to free ocean winds" only at few locations; low, medium and high clouds in NE-N winds
- Three cyclones:
 - Southern: Cyclogenesis & brings moist air to Norway & Sweden (strong precip.)
 - Eastern: Old and weak fronts with low precipitation
 - Western: Cold air advection on its western flank
- Precipitation: Snow everywhere except warm sector of Southern Cyclone