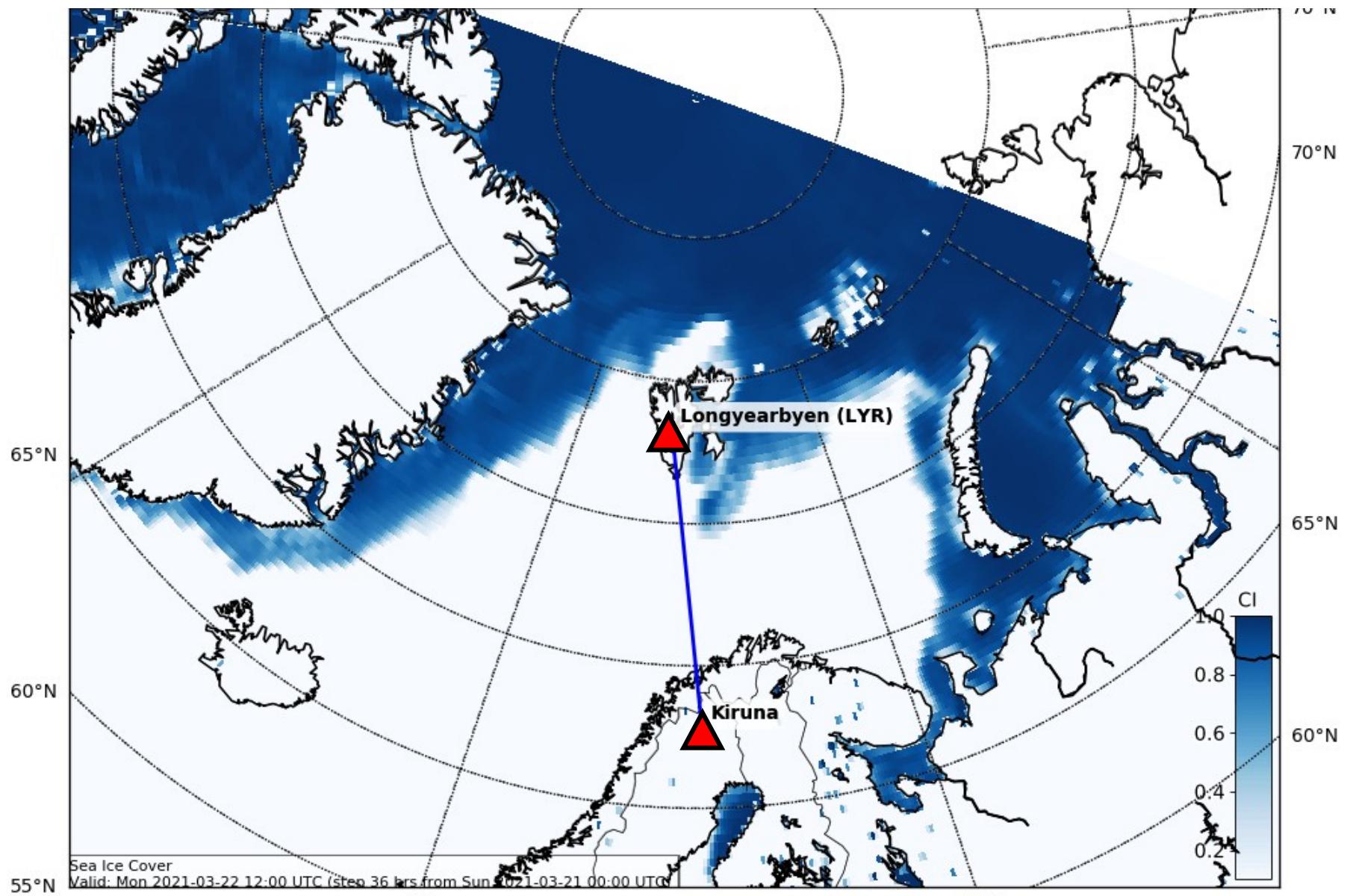


Weather briefing HALO-(AC)³

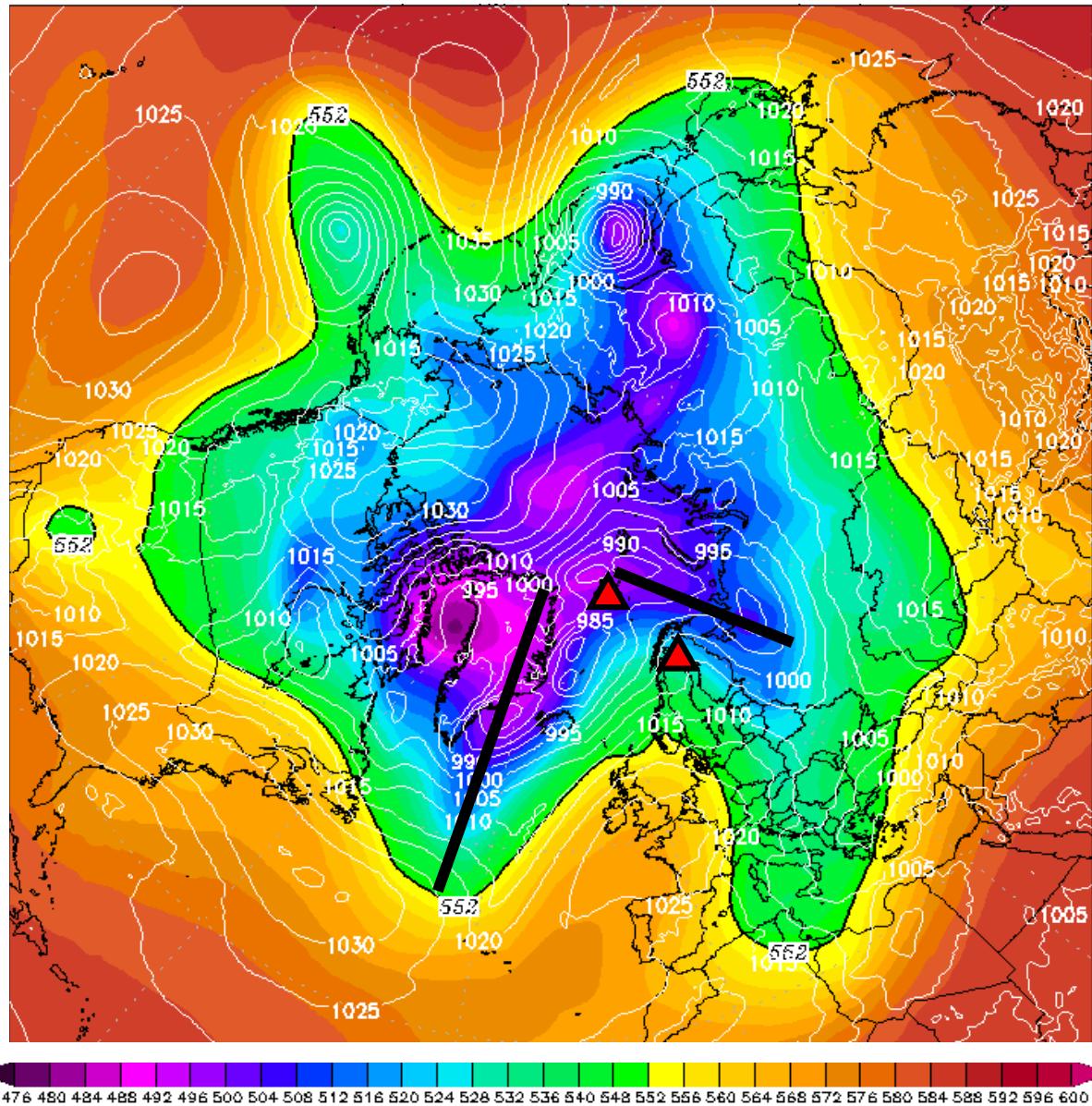
22 March 2021 - 25 March 2021

Monday, 22 March 2021

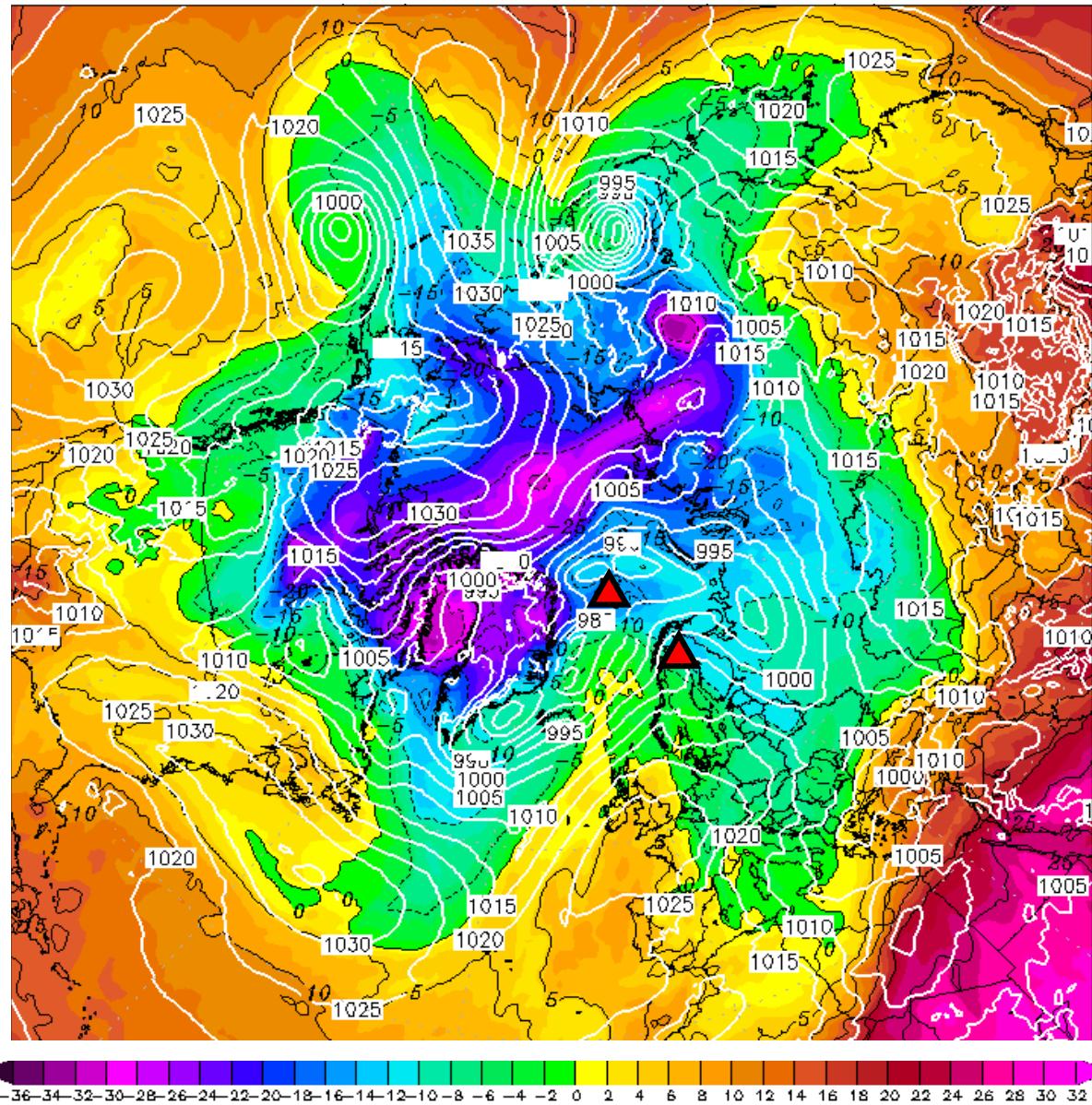
Sea ice cover (Mon, 22.03. 00 UTC)



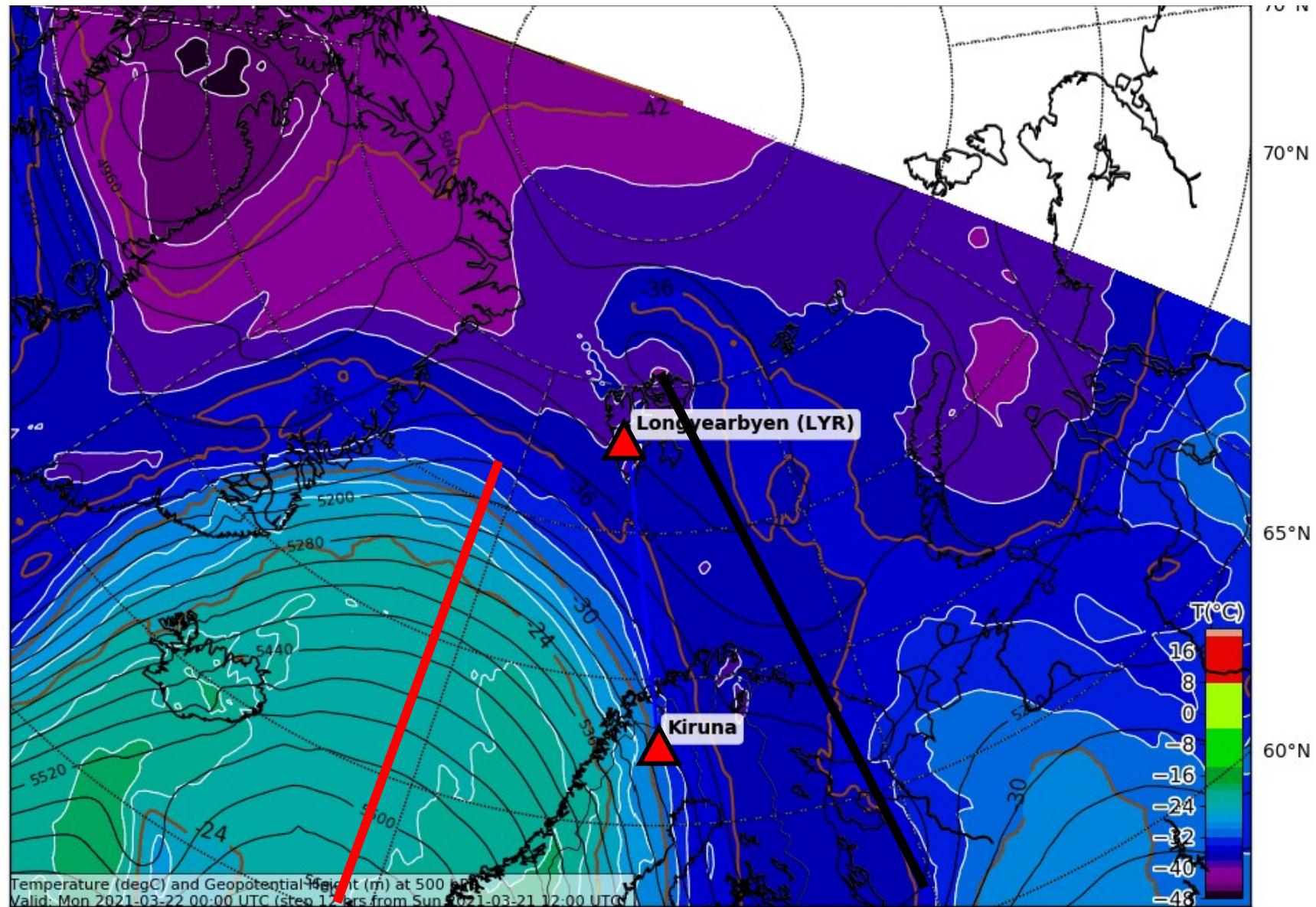
Geopotential 500hpa (gpdm) & Surface Pressure (hPa) (Mon, 22.03. 00 UTC, ECMWF)



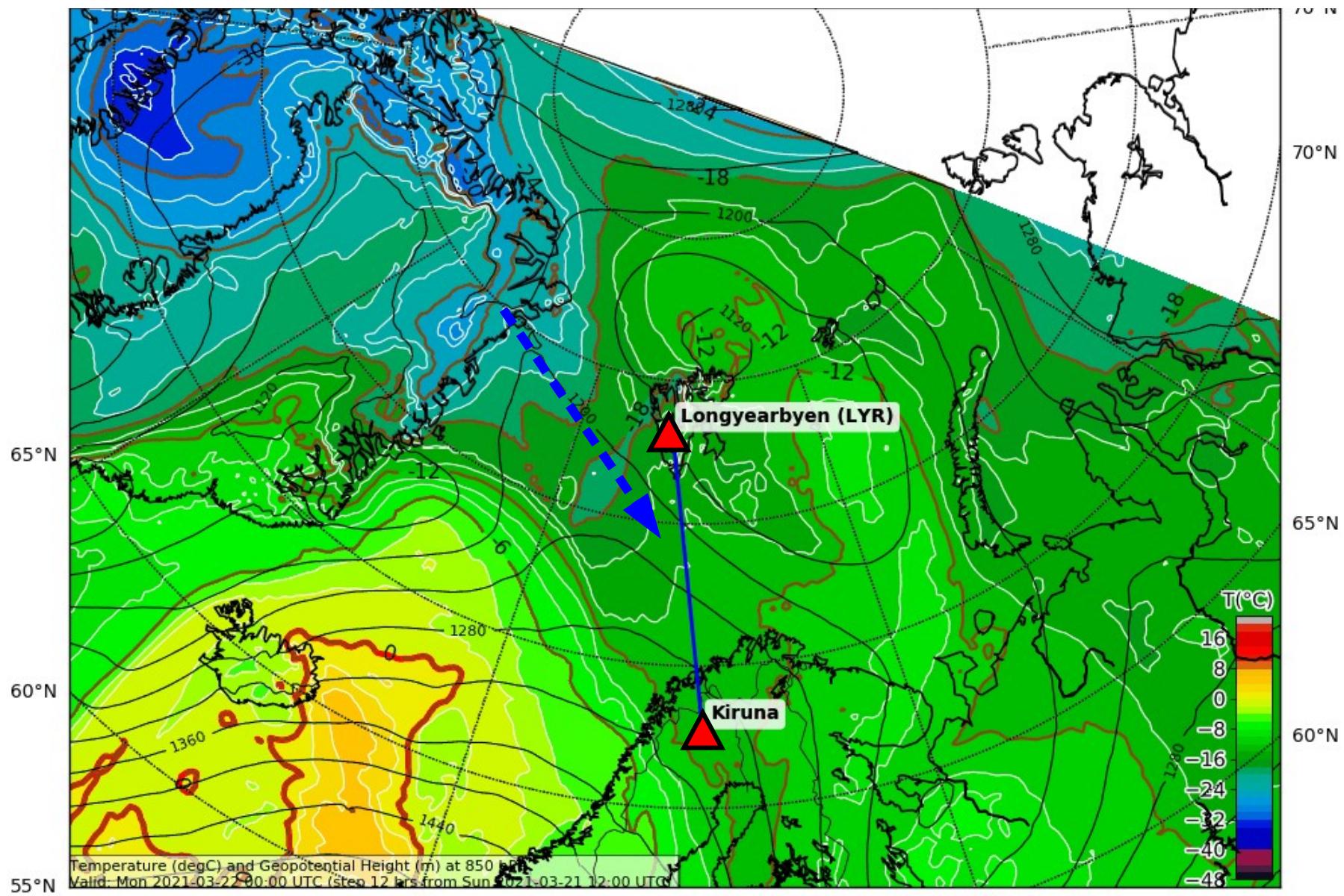
Temperature 850 hPa (°C) & Surface Pressure (hPa) (Mon, 22.03. 00 UTC, ECMWF)



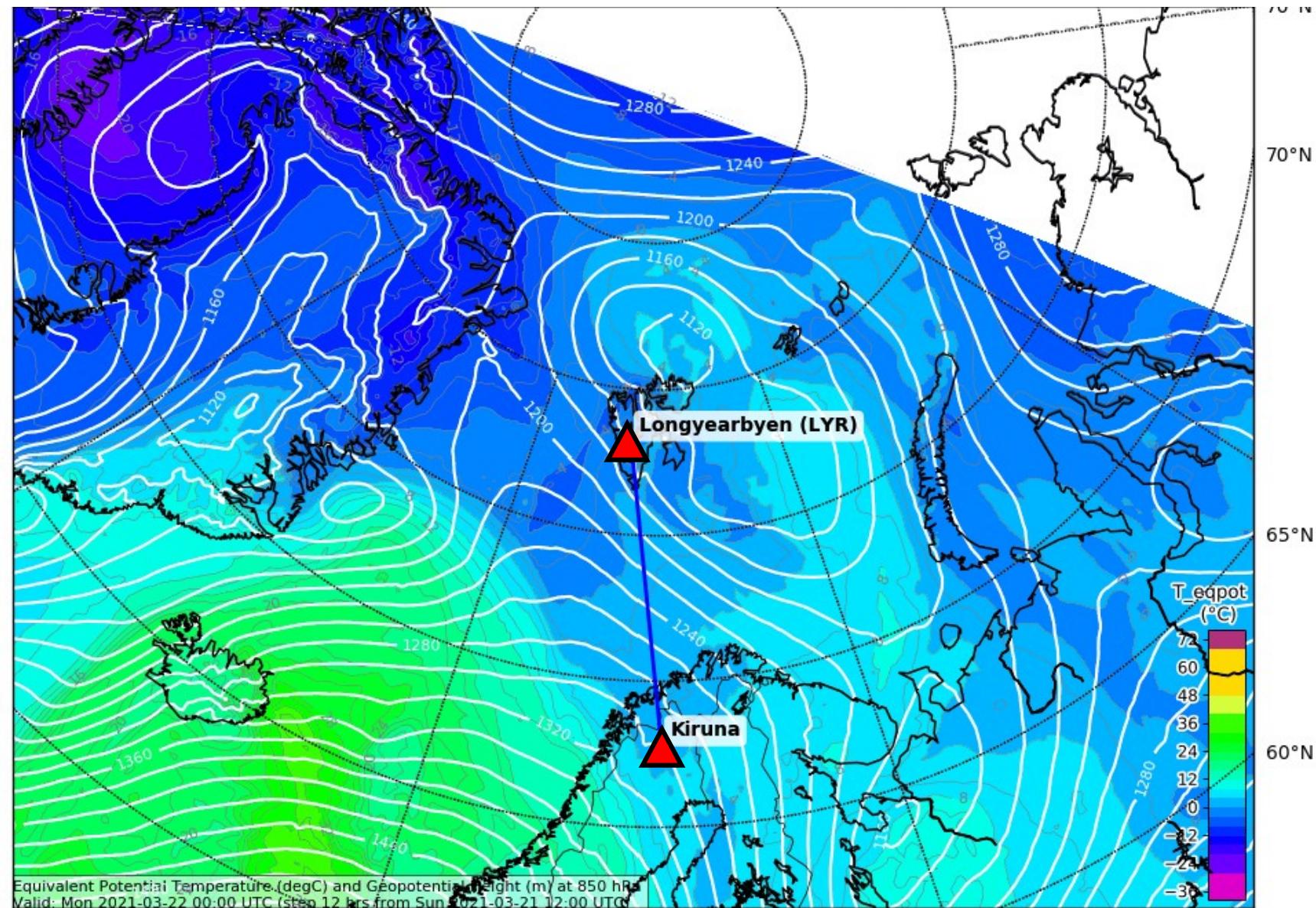
500 hPa: Temperature (°C) & Geopotential (gpdm) (Mon, 22.03. 00 UTC, ECMWF)



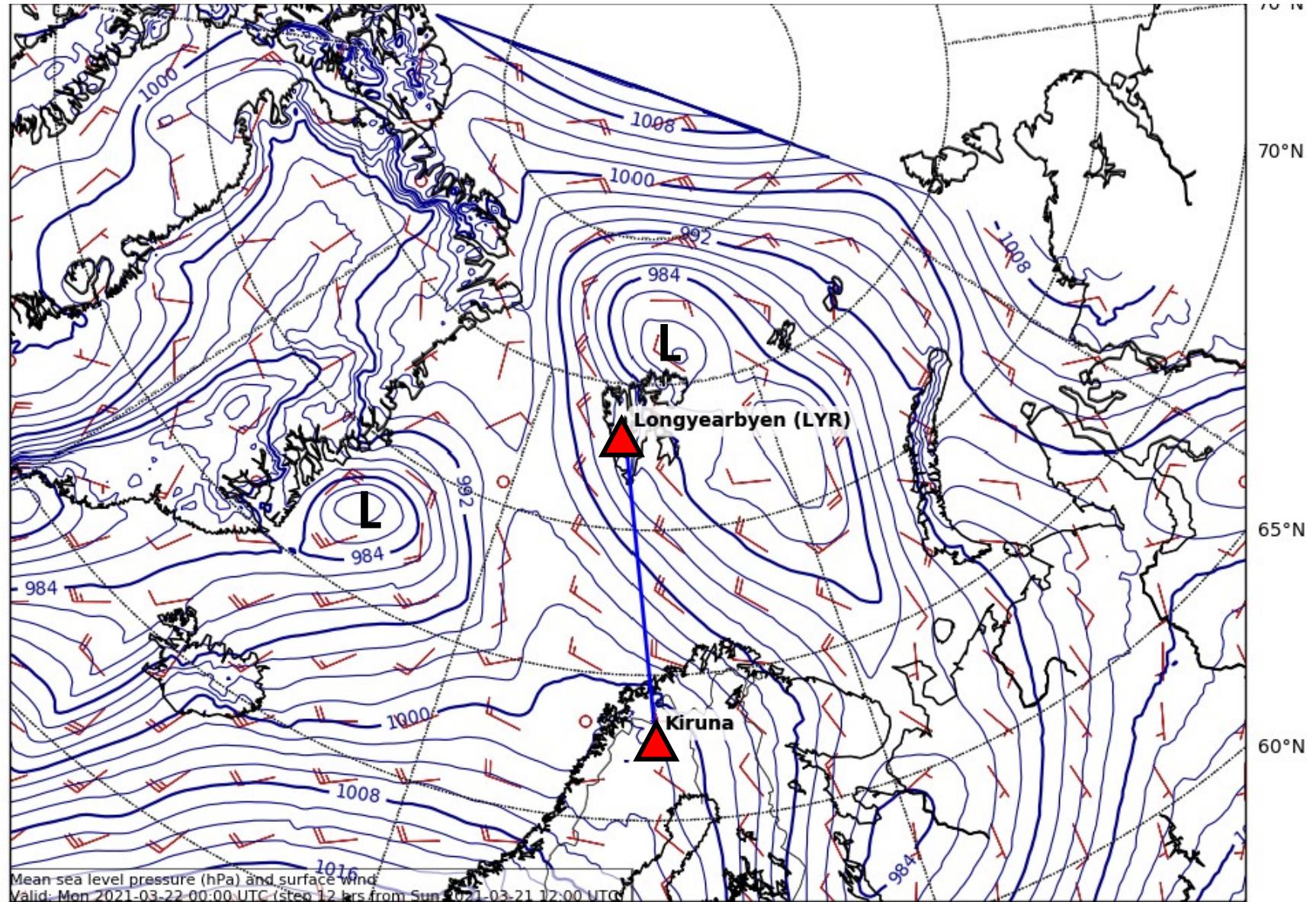
850 hPa: Temperature (°C) & Geopotential (gpdm) (Mon, 22.03. 00 UTC, ECMWF)



850 hPa: Eqi. Pot. Temperature (°C) & Geopotential (gpdm) (Mon, 22.03. 00 UTC, ECMWF)

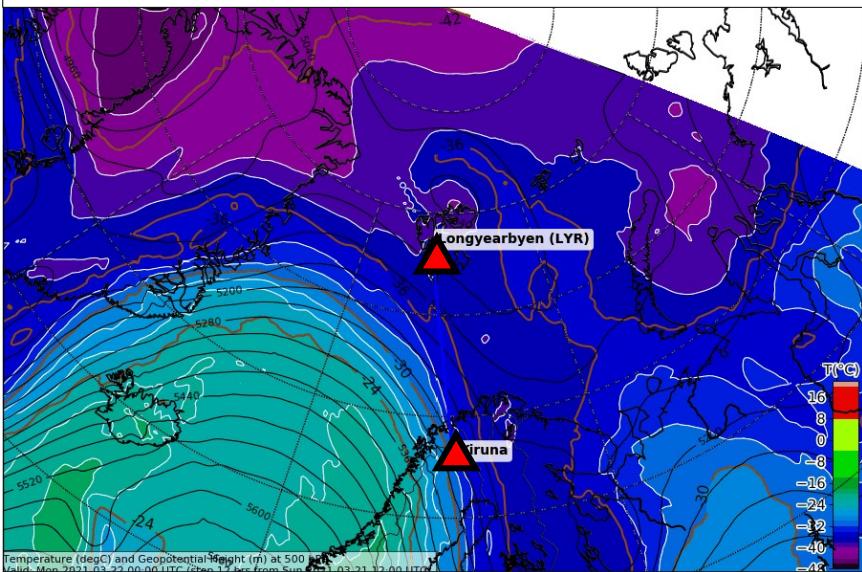


Mean sea level pressure (hPa) and surface wind (Mon, 22.03. 00 UTC, ECMWF)

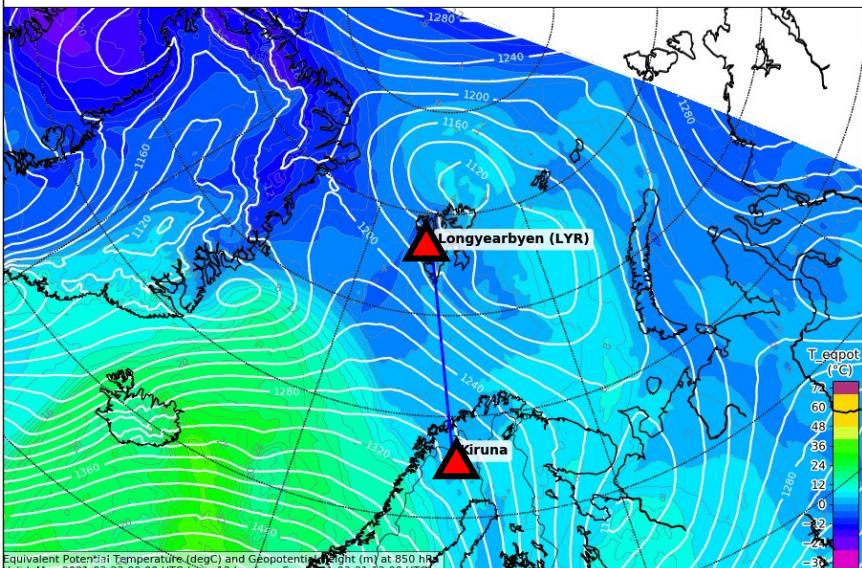


General weather situation (Mon, 22.03 00 UTC, ECMWF)

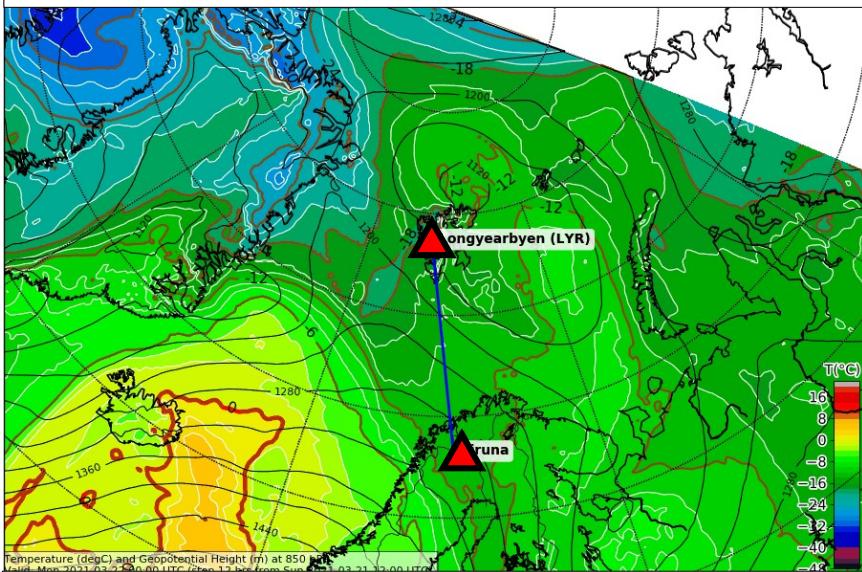
500 hPa: Temperature & Geopotential



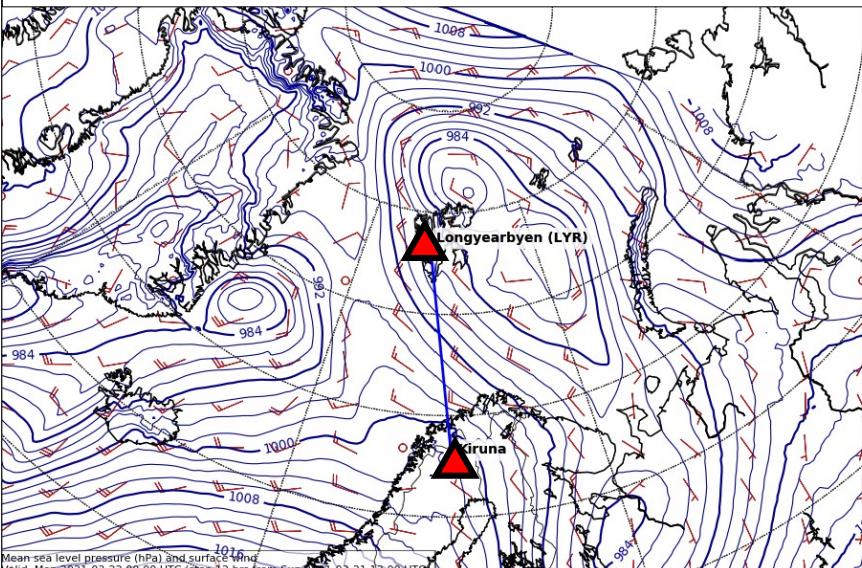
850 hPa: Equi. Pot. Temperature & Geopotential



850 hPa: Temperature & Geopotential

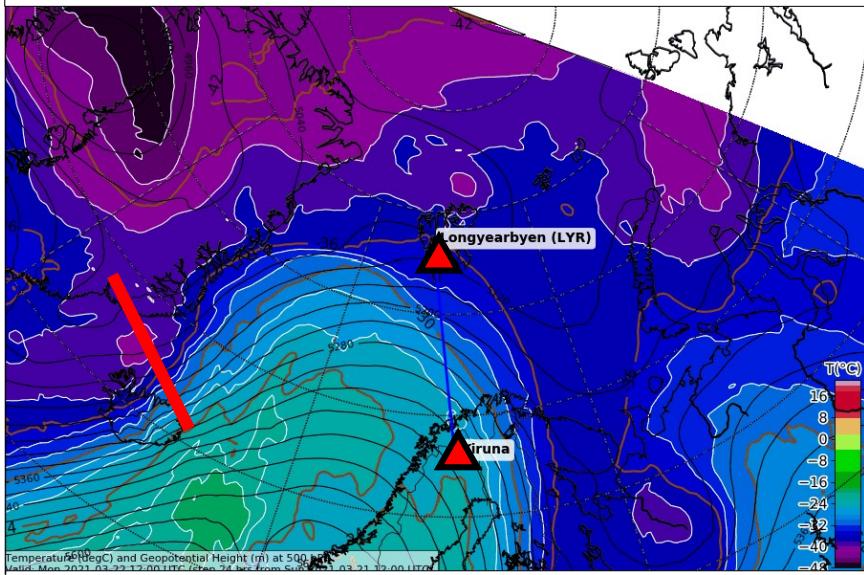


Mean sea level pressure and surface wind

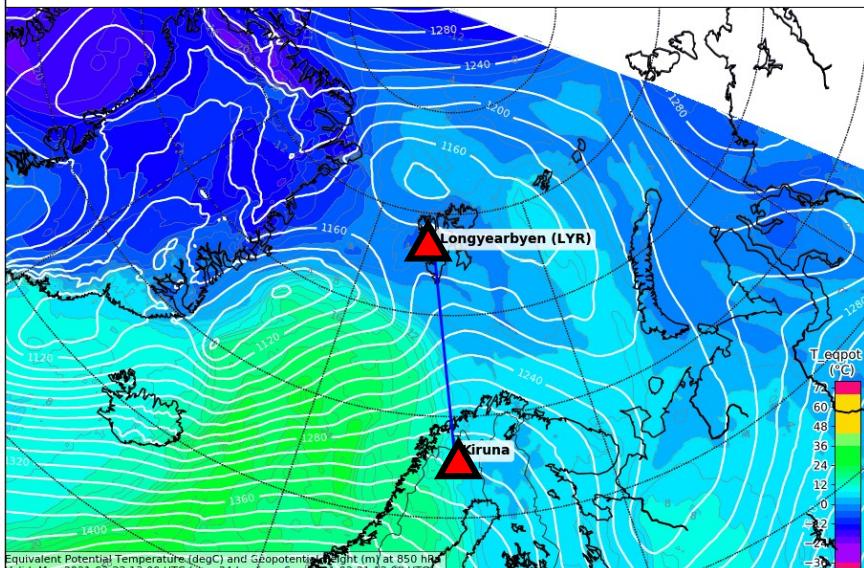


General weather situation (Mon, 22.03 12 UTC, ECMWF)

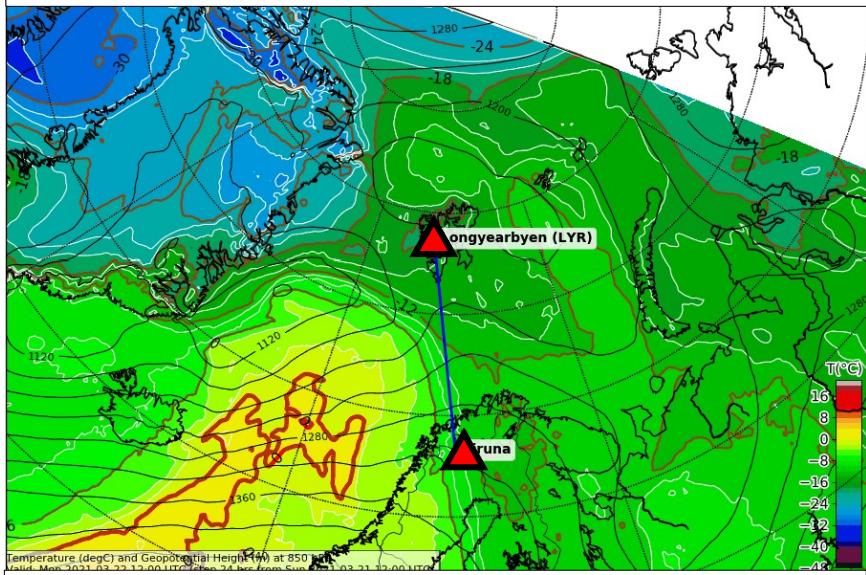
500 hPa: Temperature & Geopotential



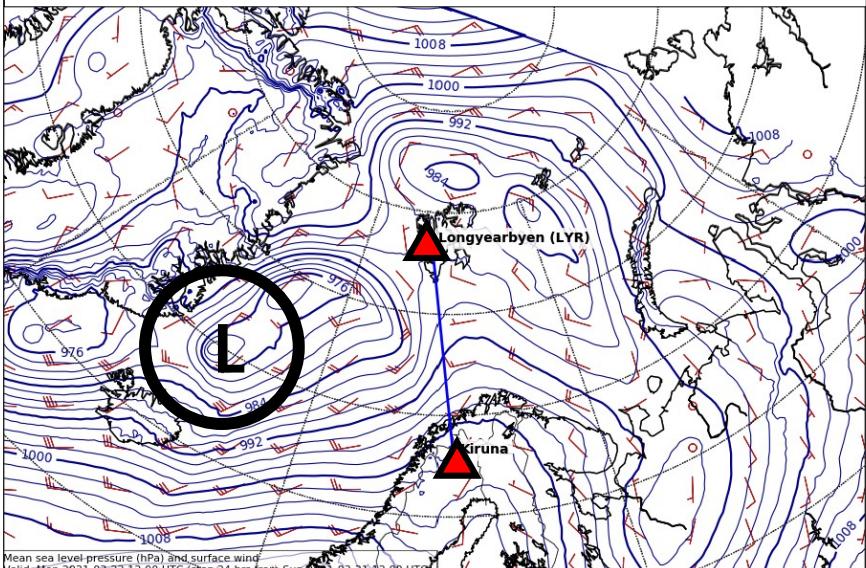
850 hPa: Equi. Pot. Temperature & Geopotential



850 hPa: Temperature & Geopotential

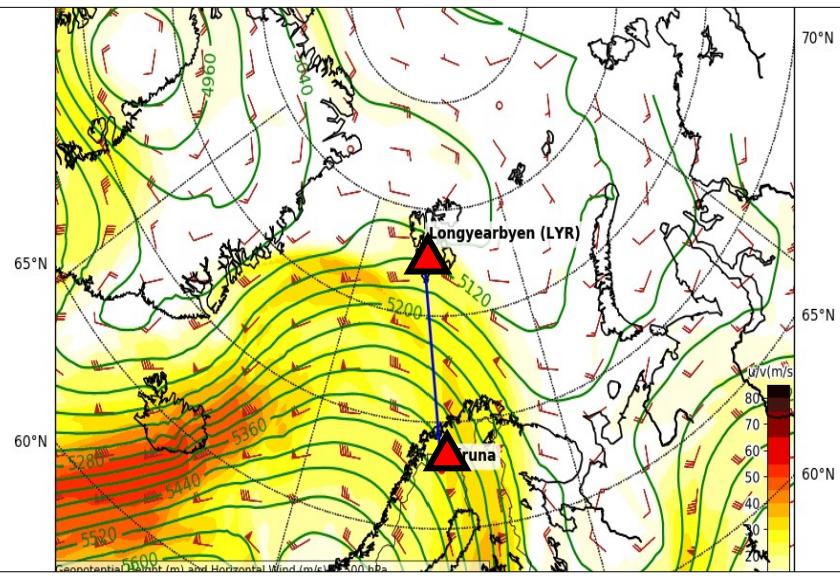


Mean sea level pressure and surface wind

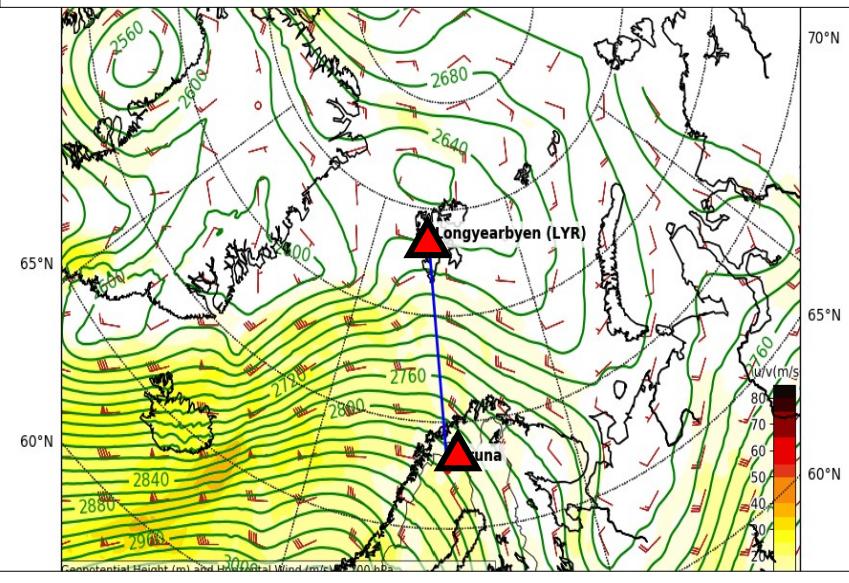


Winds (Mon, 22.03 12 UTC, ECMWF)

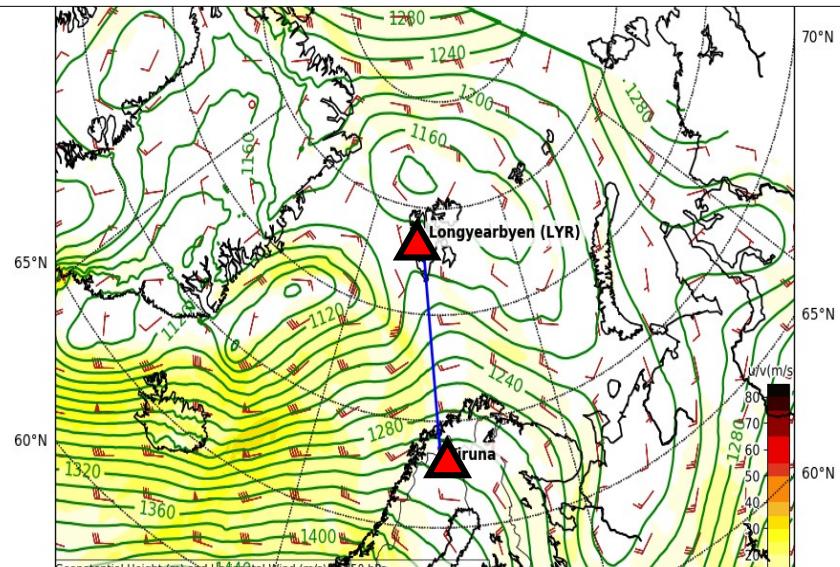
500 hPa: Wind & Geopotential



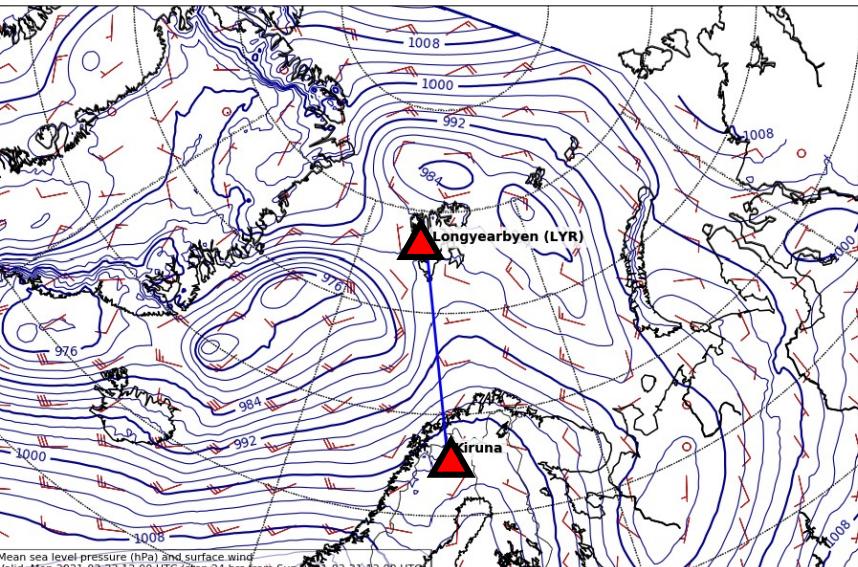
700 hPa: Wind & Geopotential



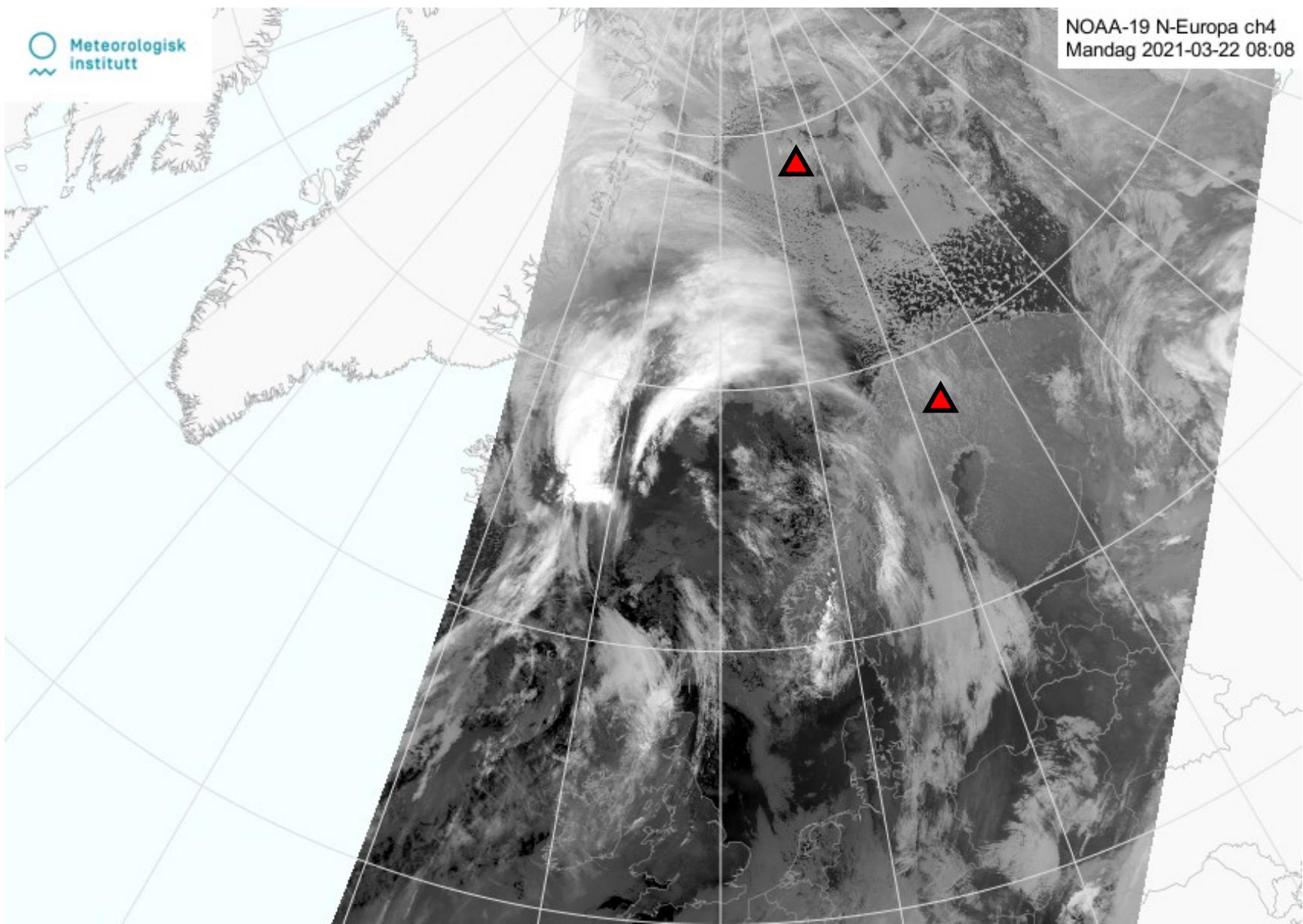
850 hPa: Wind & Geopotential



Mean sea level pressure and surface wind



Satellite Image



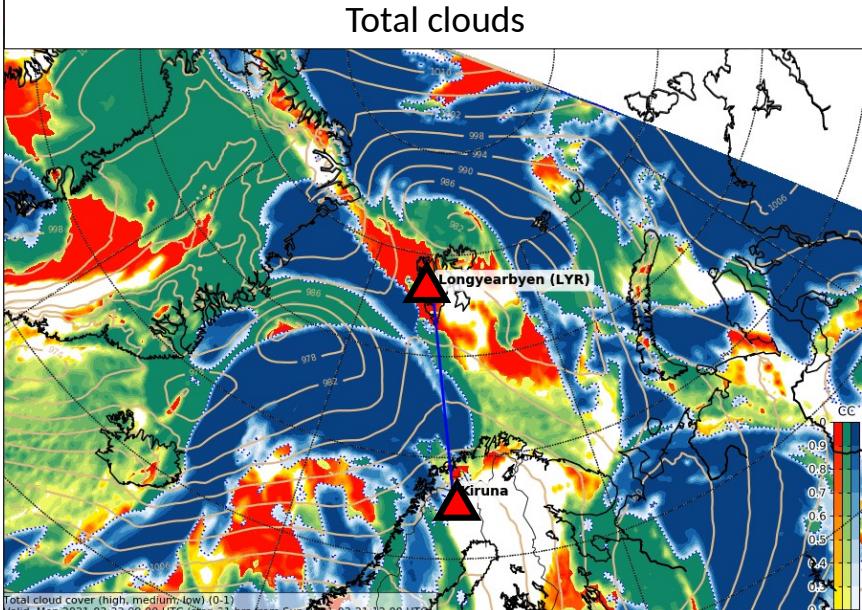
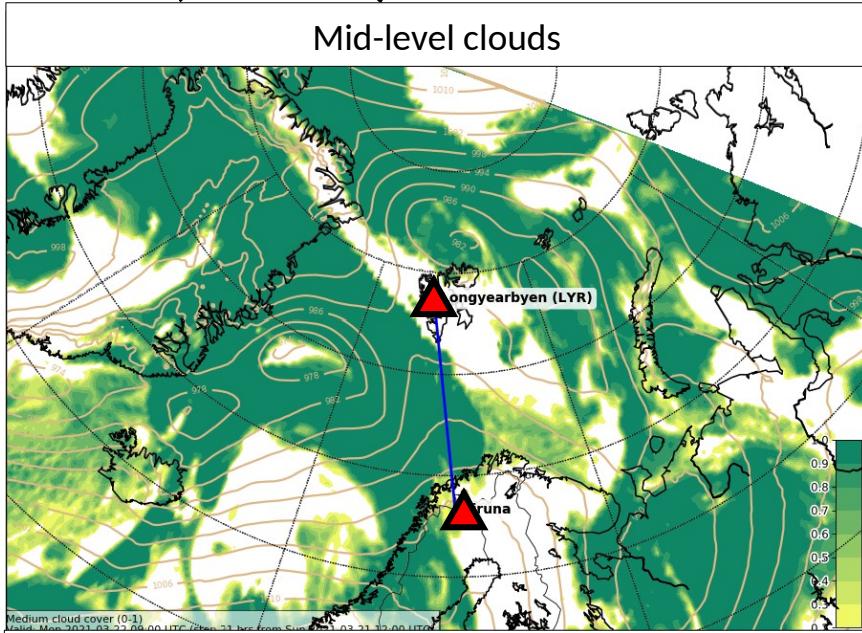
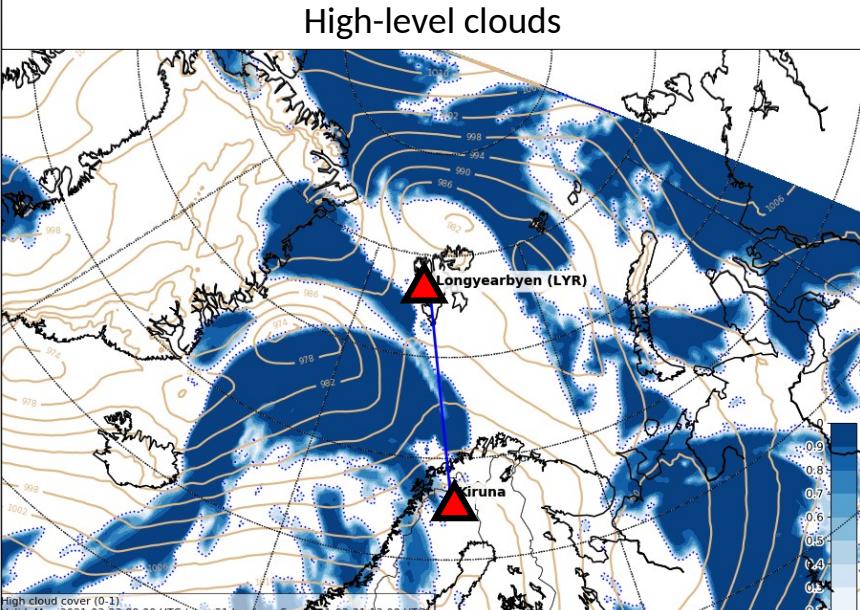
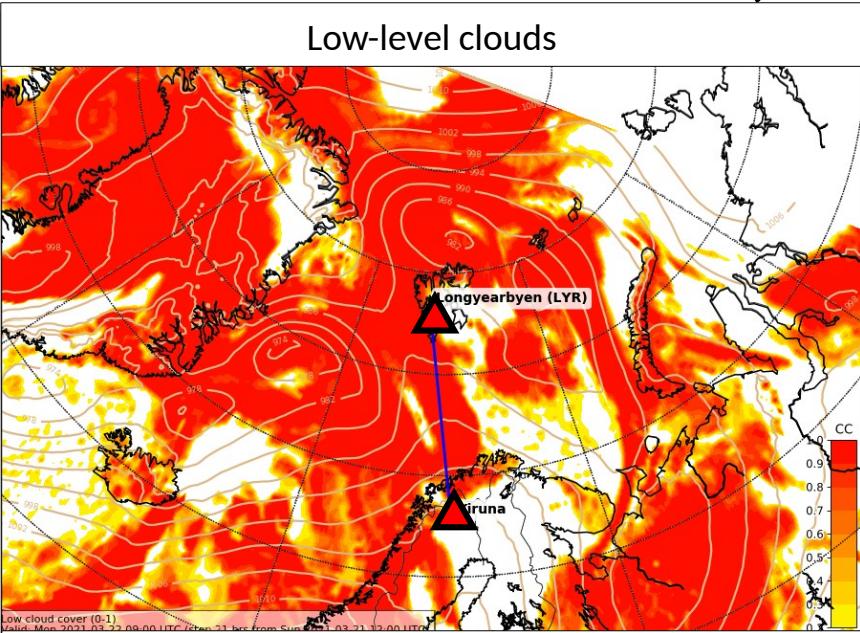
Webcam Longyearbyen

320° 330° 340° 350° 0° 10°

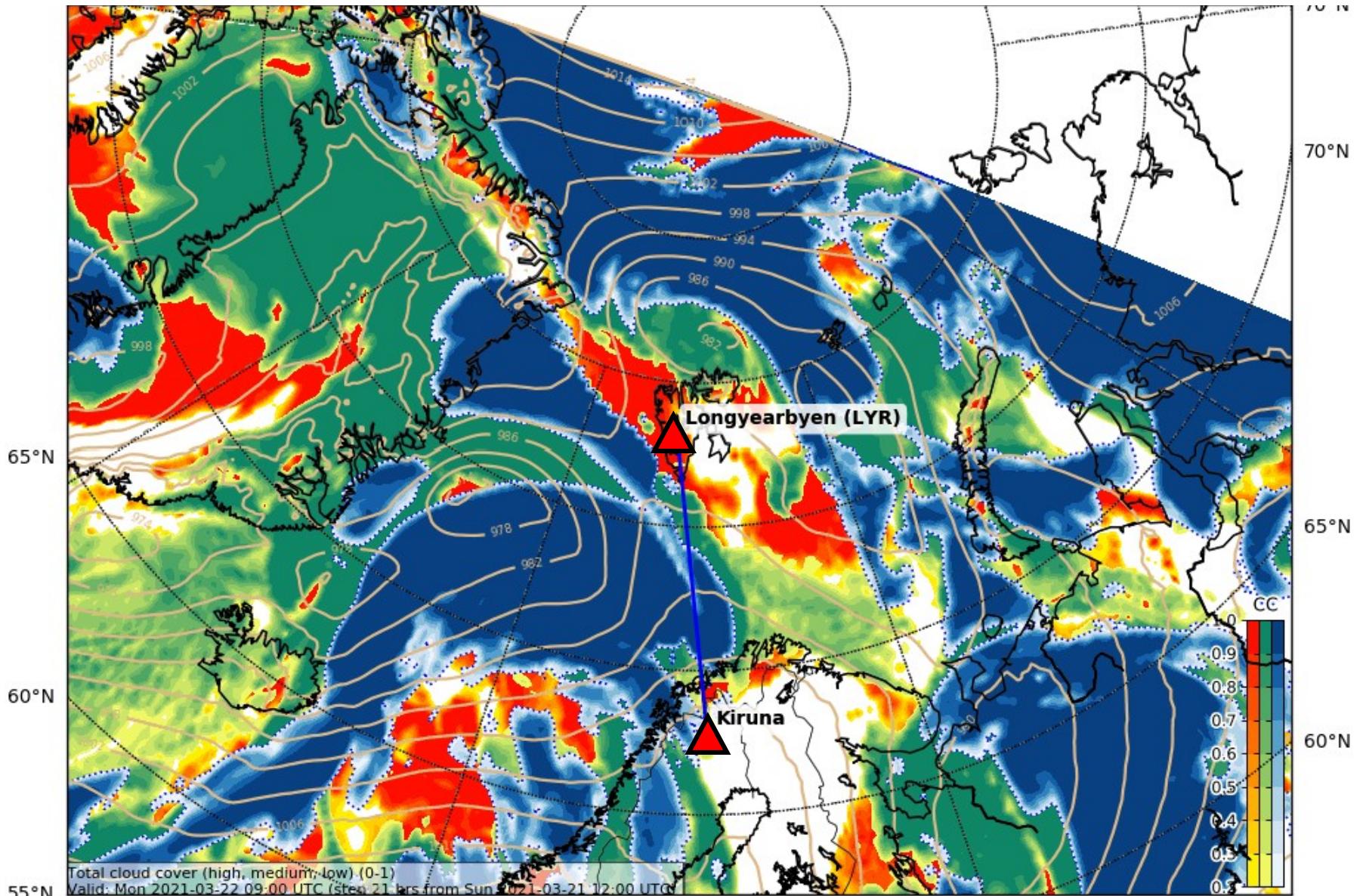
PANORAMA PORT OF LONGYEARBYEN 360



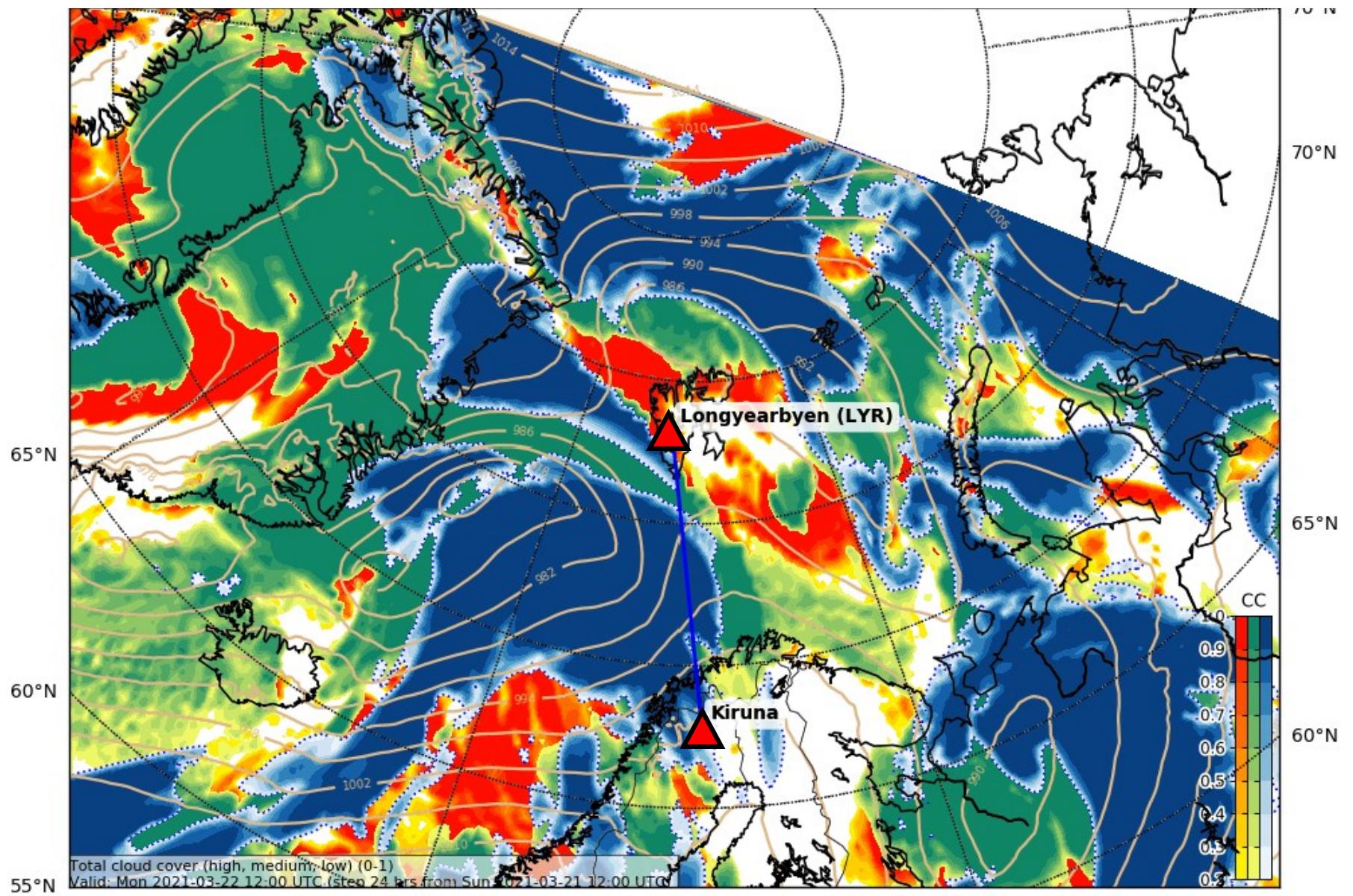
Cloud cover (Mon, 22.03 09 UTC, ECMWF)



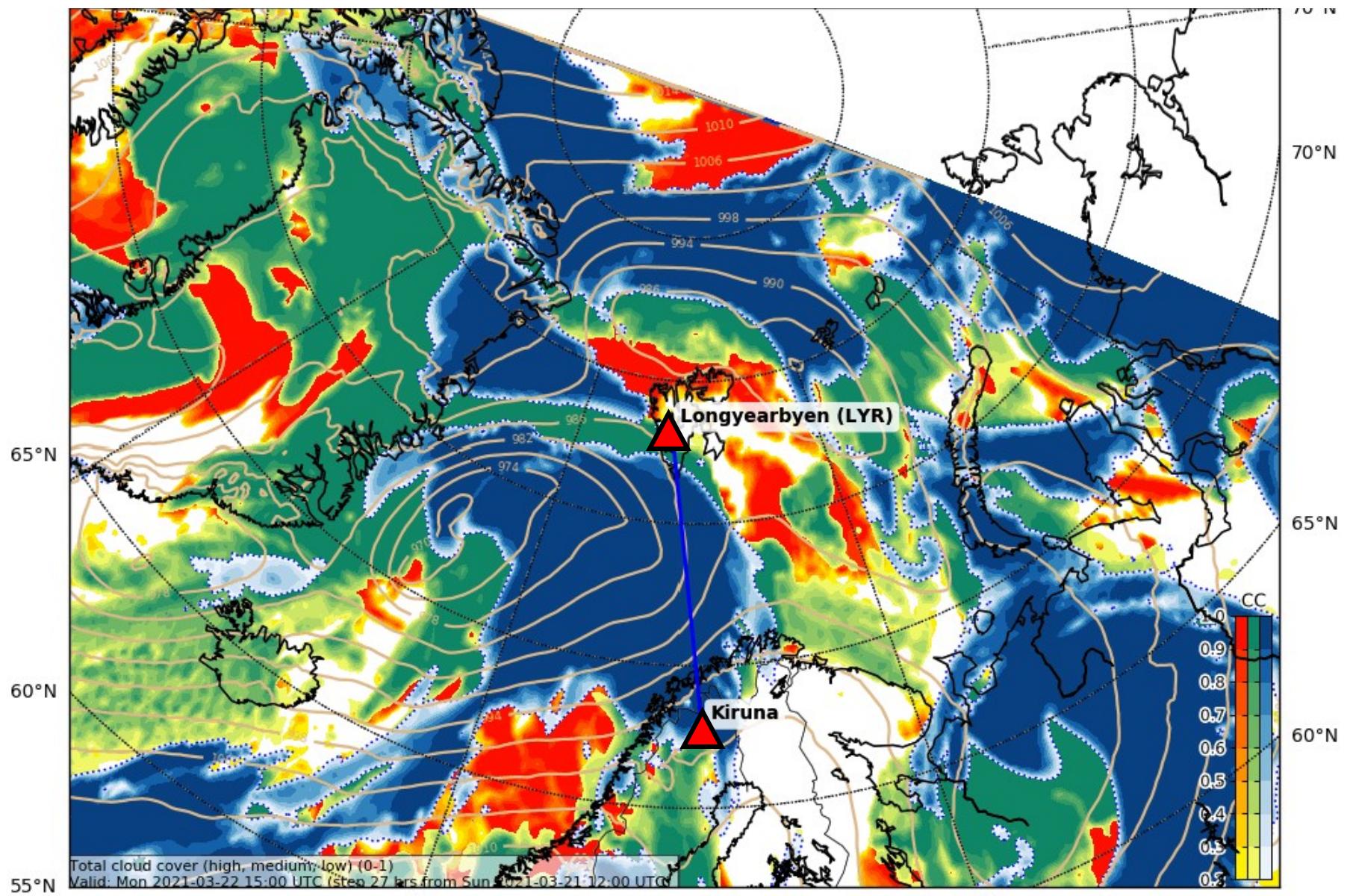
Total cloud cover (Mon, 22.03. 09 UTC, ECMWF)



Total cloud cover (Mon, 22.03. 12 UTC, ECMWF)

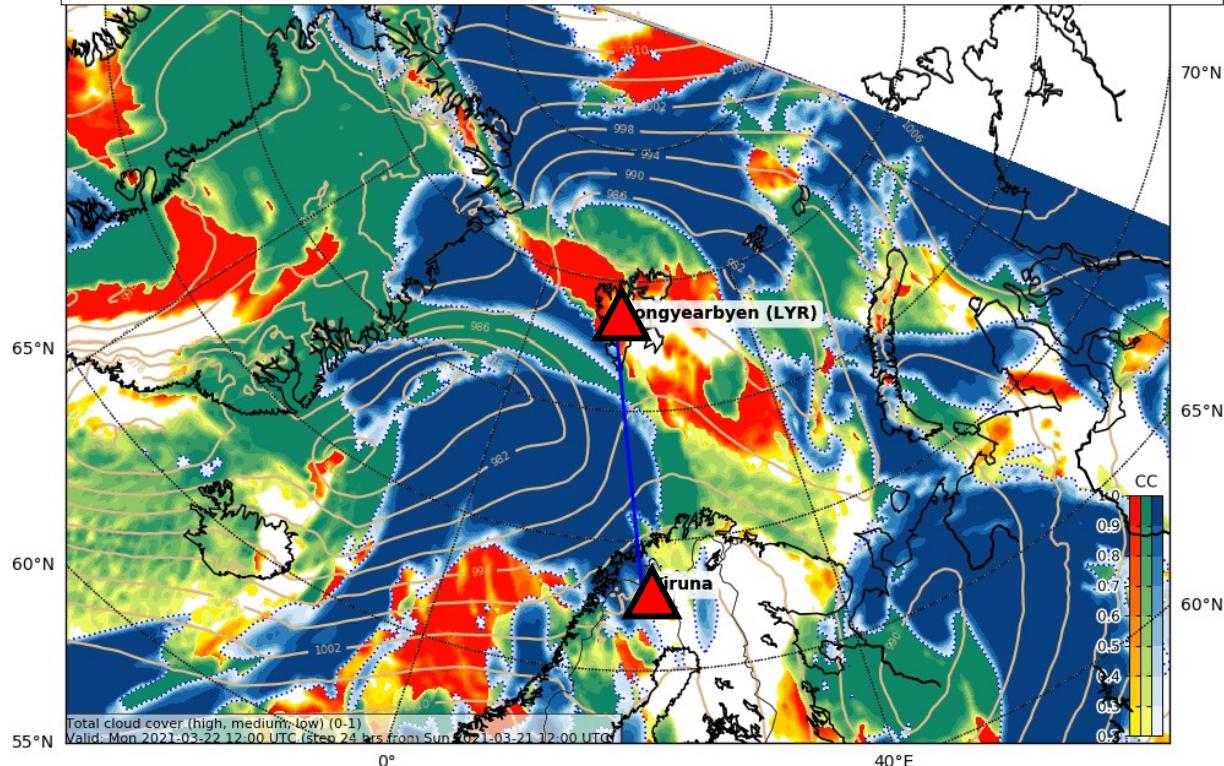


Total cloud cover (Mon, 22.03. 15 UTC, ECMWF)

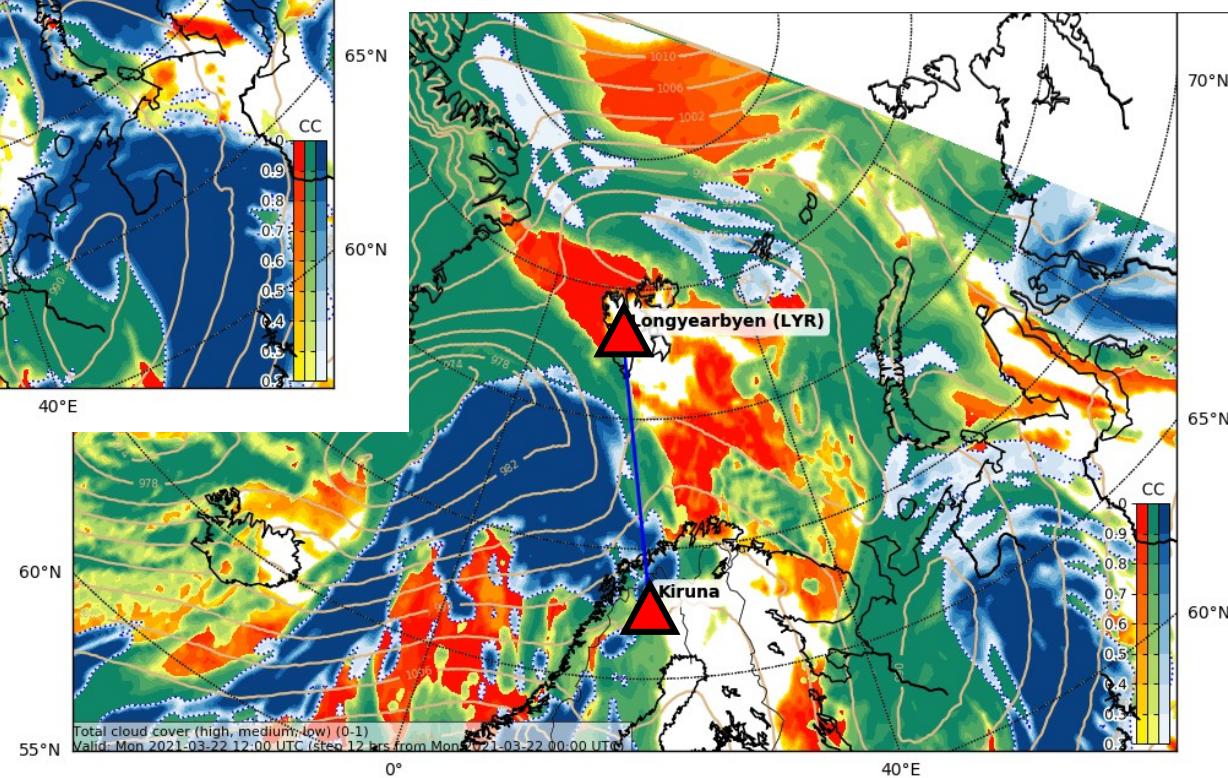


Total cloud cover – ECMWF vs. ICON (Mon, 22.03. 12 UTC)

ECMWF

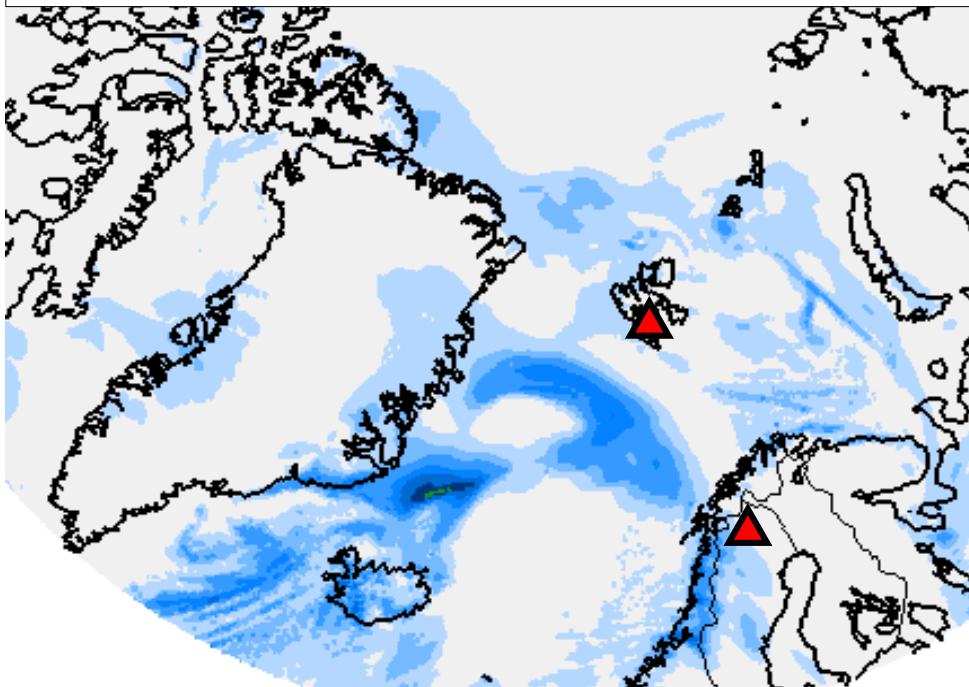


ICON

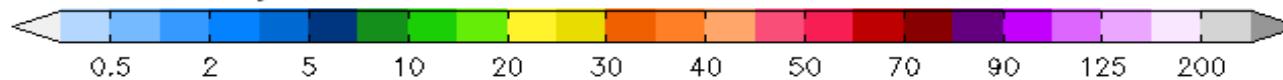
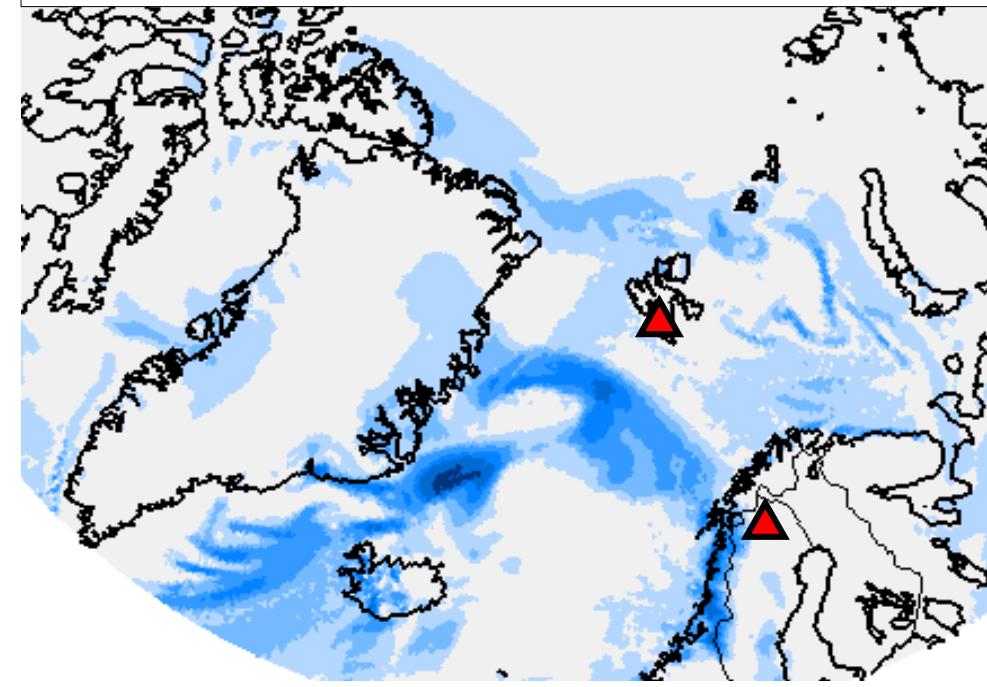


3h - Surface precipitation (mm) (Mon, 21.03. 12 UTC)

ECMWF



ICON

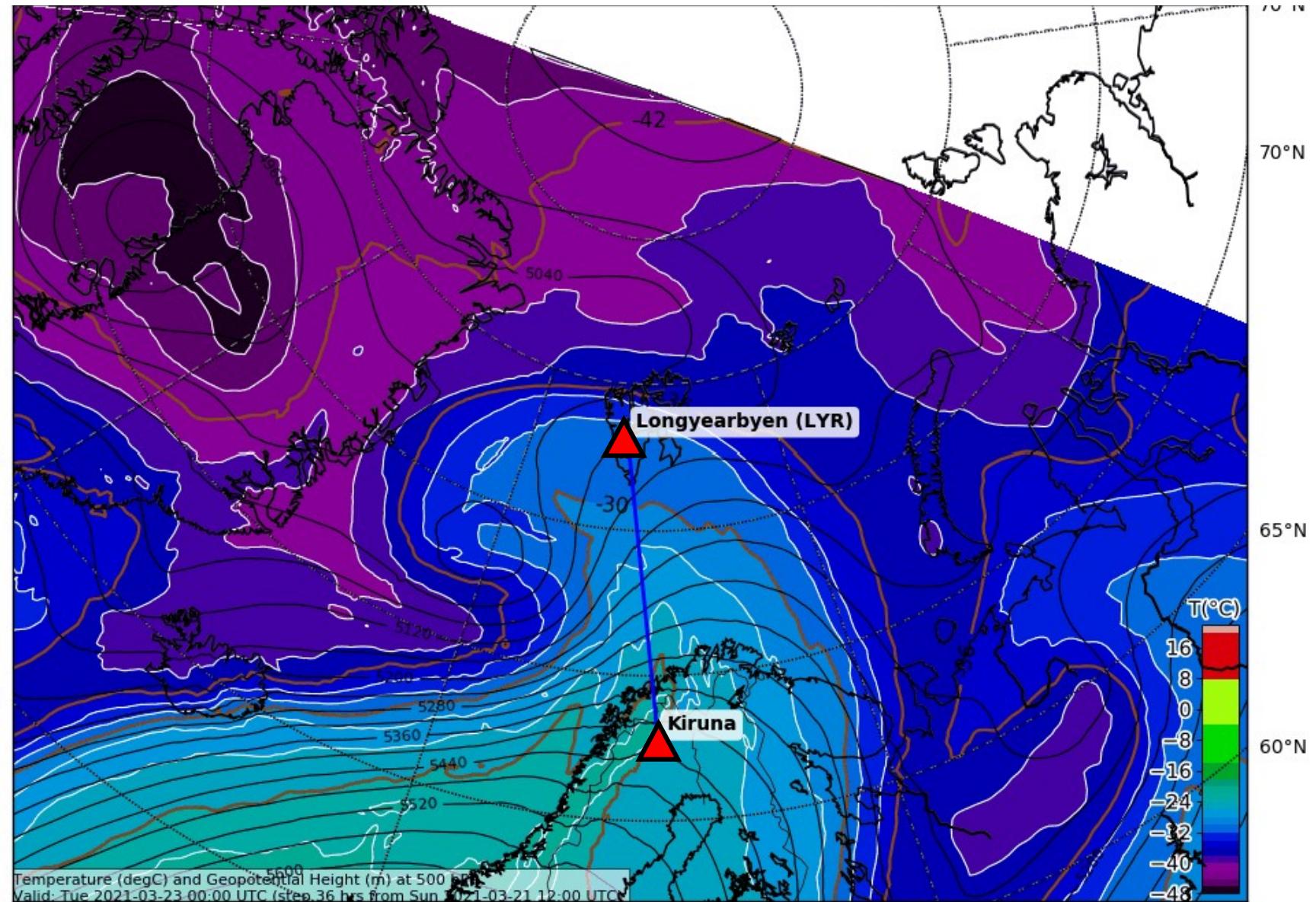


Summary: Mon, 22.03.2021

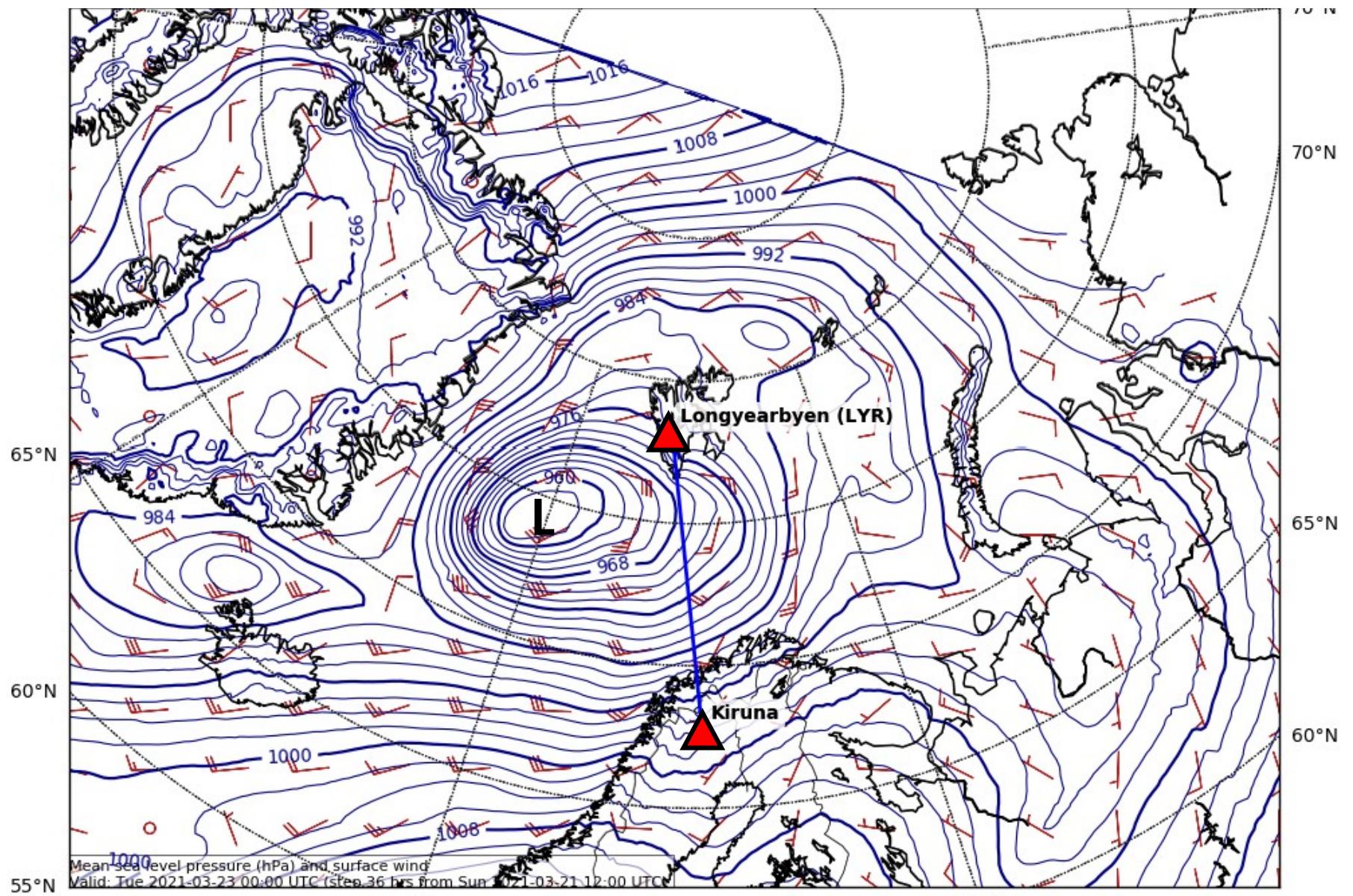
- LYR and Kiruna are situated at the rear side of a trough and are within a northwesterly flow that advects cold air masses into Fram Straight
- Low-level clouds and slight precipitation west of Svalbard associated with the weak cold air outbreak
- As new frontal system approaches from the west, northwesterly flow will decay and high-/mid-level clouds move towards Svalbard in the afternoon

Tuesday, 23 March 2021

500 hPa: Temperature (°C) & Geopotential (gpdm) (Tue, 23.03. 00 UTC, ECMWF)

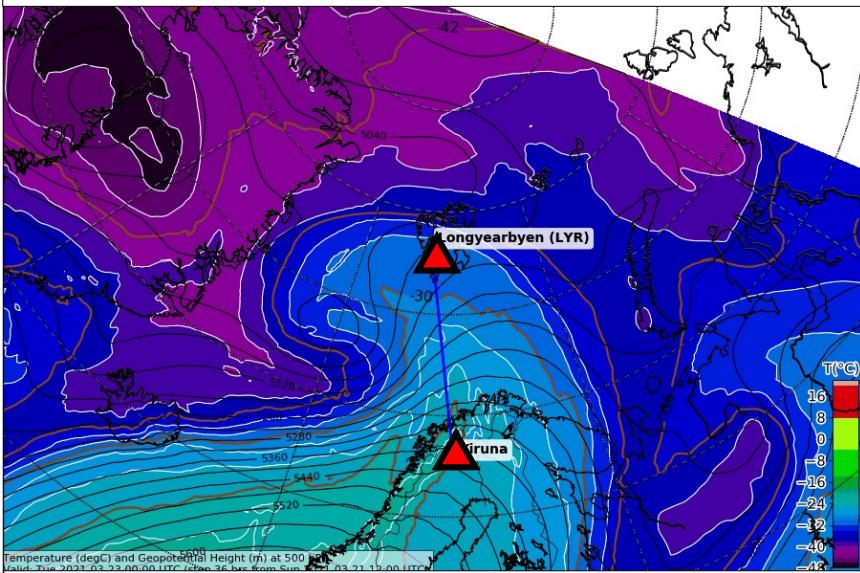


Mean sea level pressure (hPa) and surface wind (Tue, 23.03. 00 UTC, ECMWF)

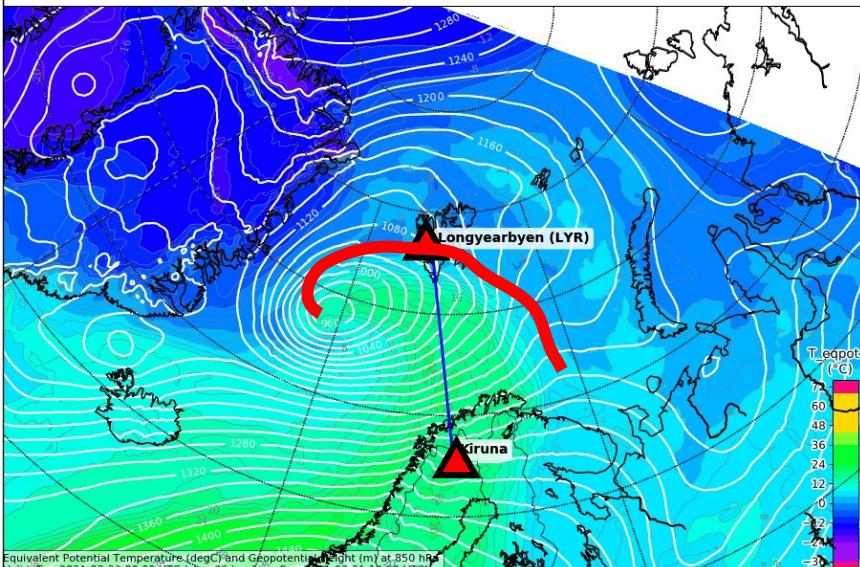


General weather situation (Tue, 23.03 00 UTC, ECMWF)

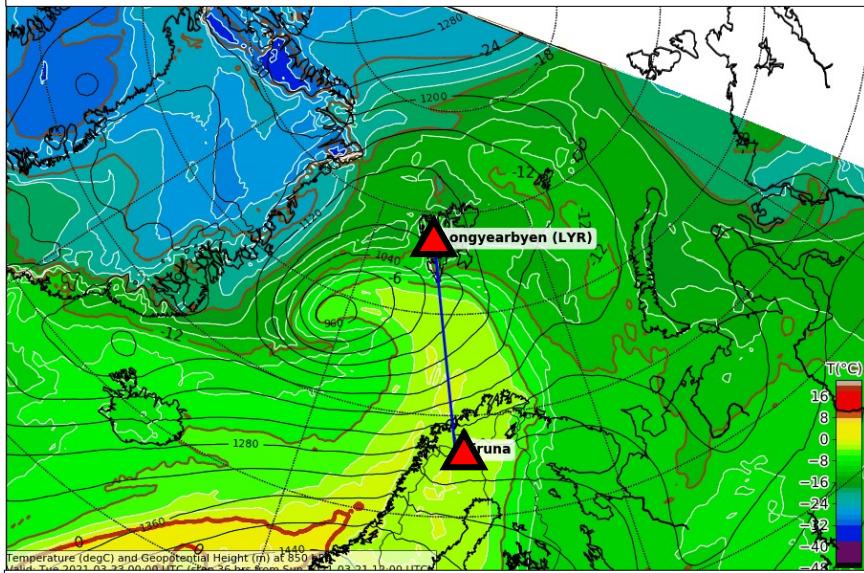
500 hPa: Temperature & Geopotential



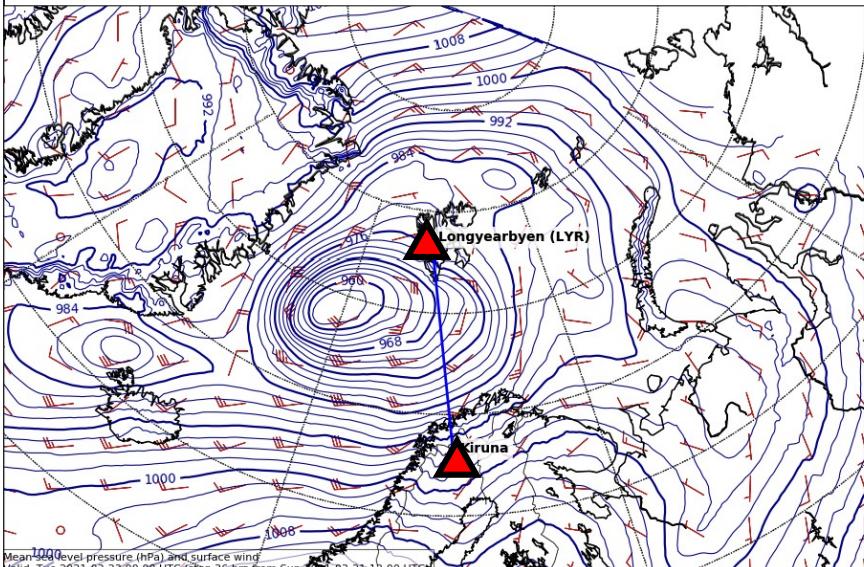
850 hPa: Equi. Pot. Temperature & Geopotential



850 hPa: Temperature & Geopotential

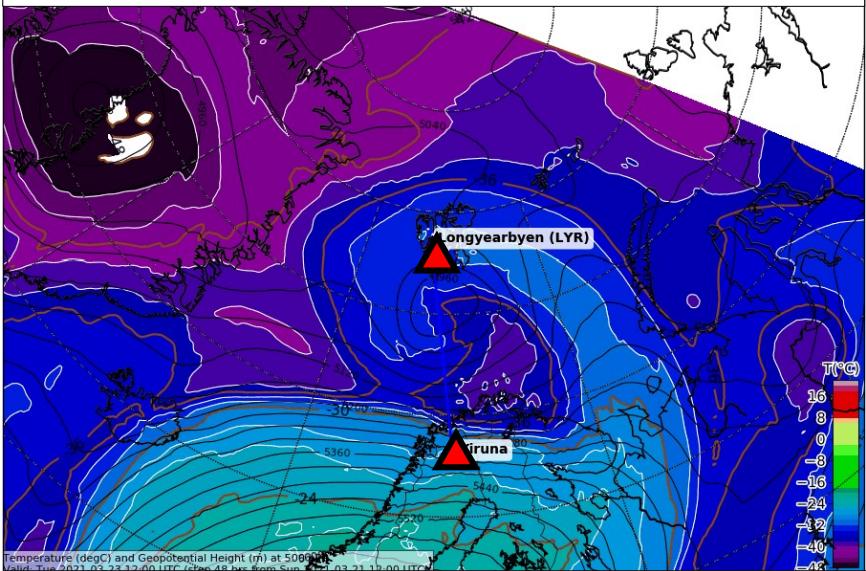


Mean sea level pressure and surface wind

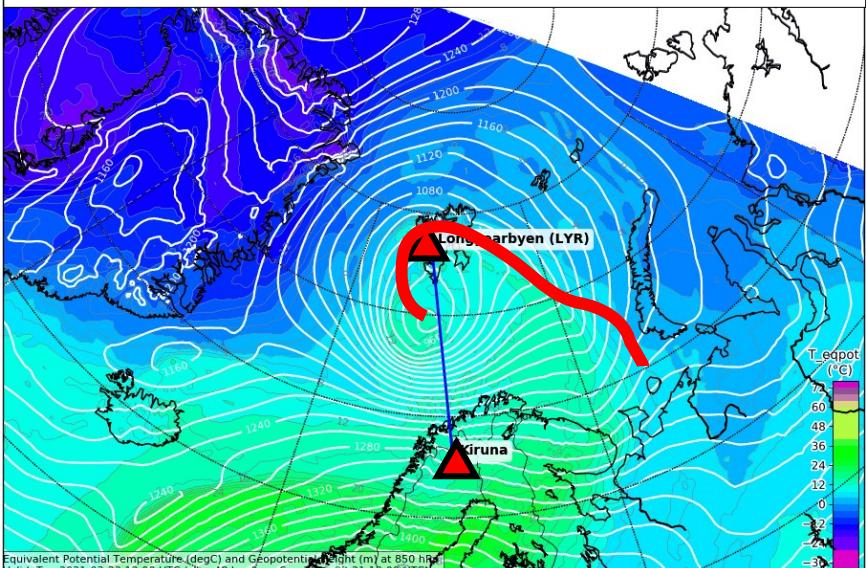


General weather situation (Tue, 23.03 12 UTC, ECMWF)

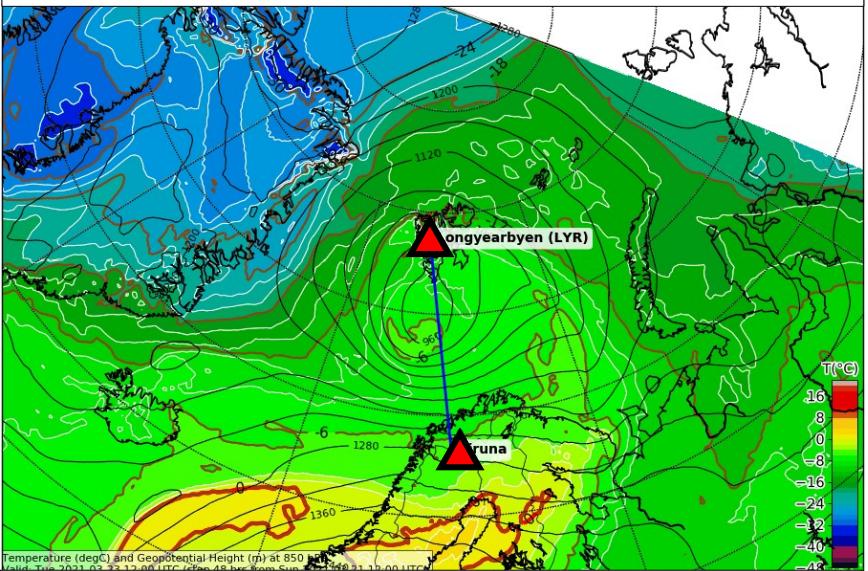
500 hPa: Temperature & Geopotential



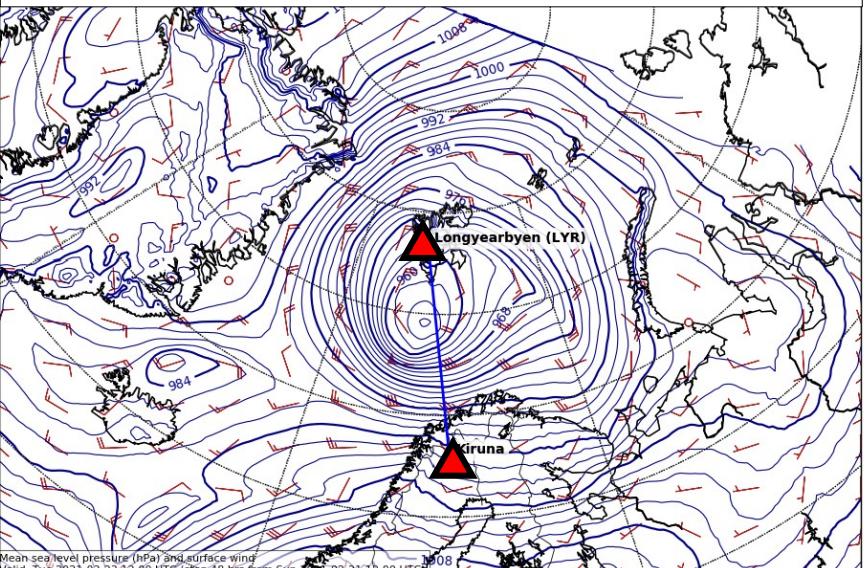
850 hPa: Equi. Pot. Temperature & Geopotential



850 hPa: Temperature & Geopotential

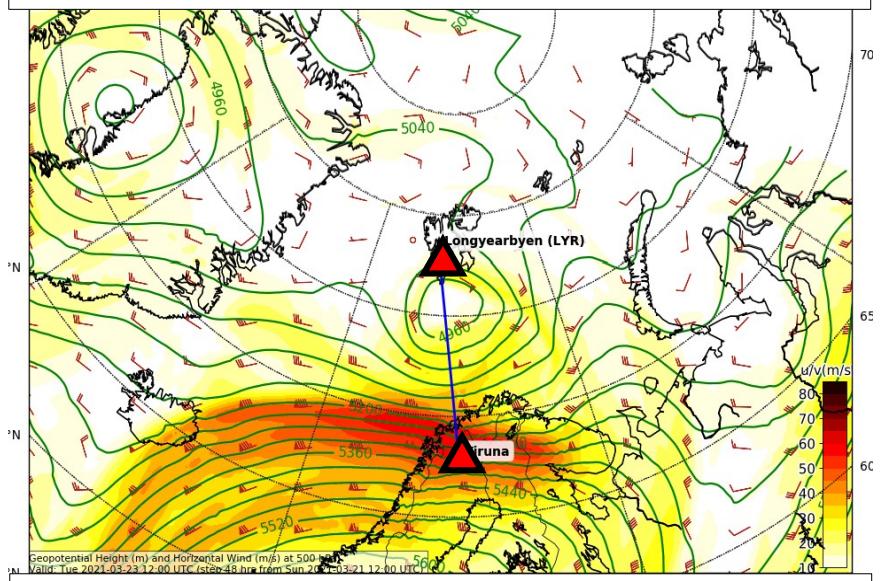


Mean sea level pressure and surface wind

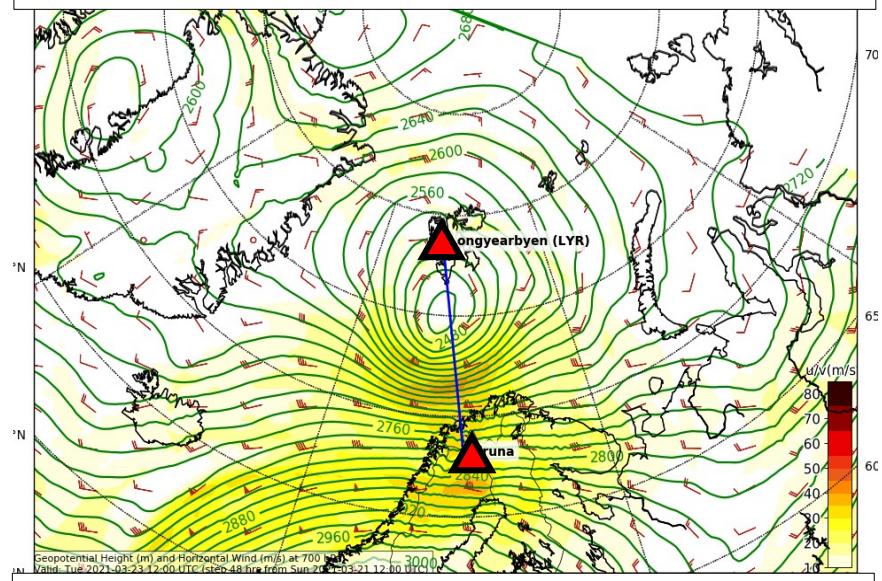


Winds (Tue, 23.03 12 UTC, ECMWF)

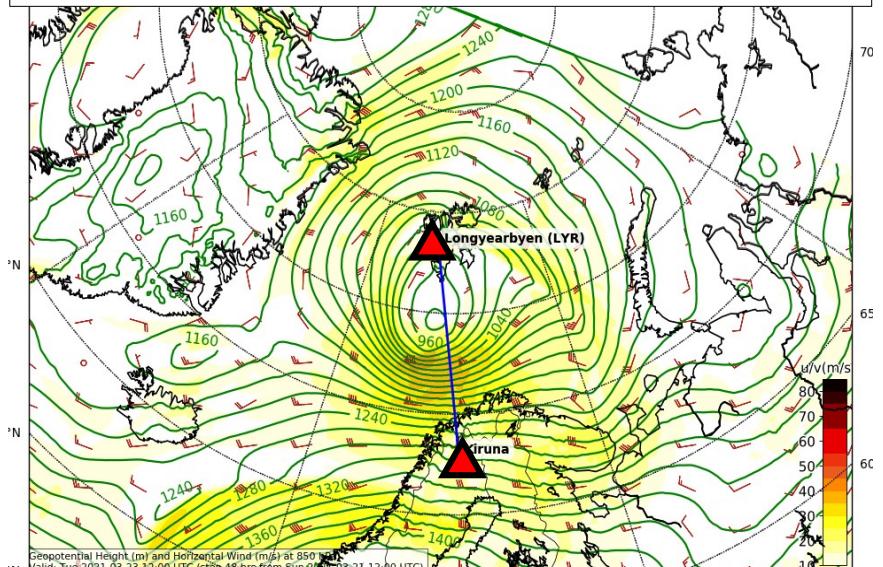
500 hPa: Wind & Geopotential



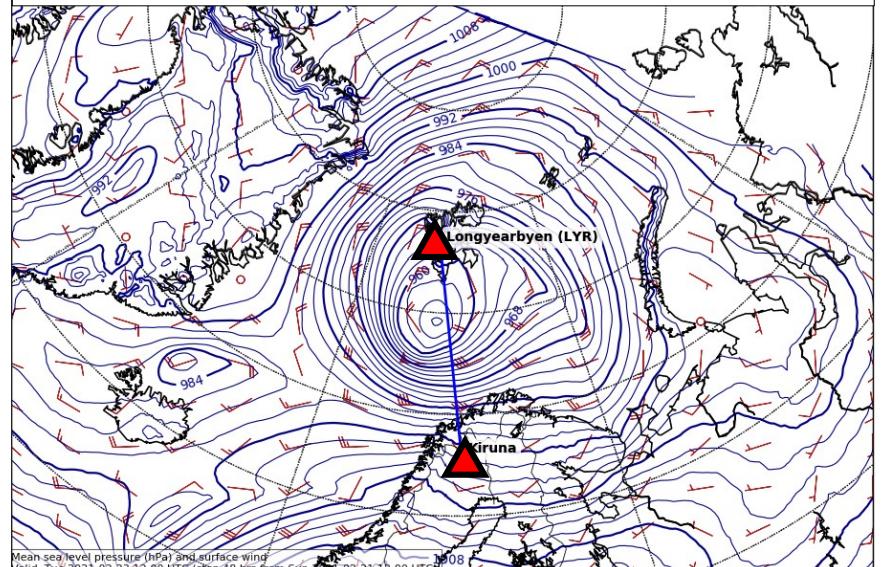
700 hPa: Wind & Geopotential



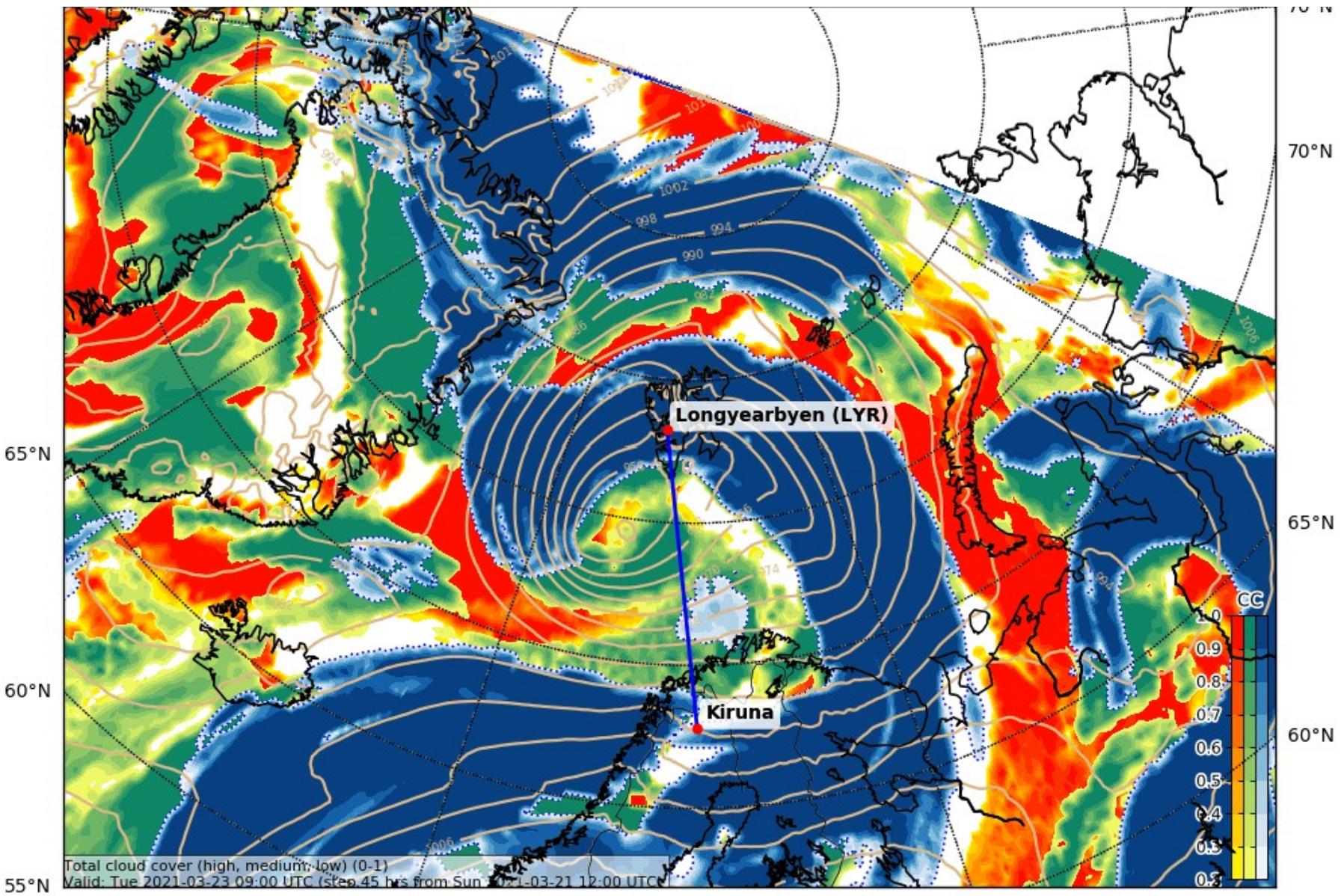
850 hPa: Wind & Geopotential



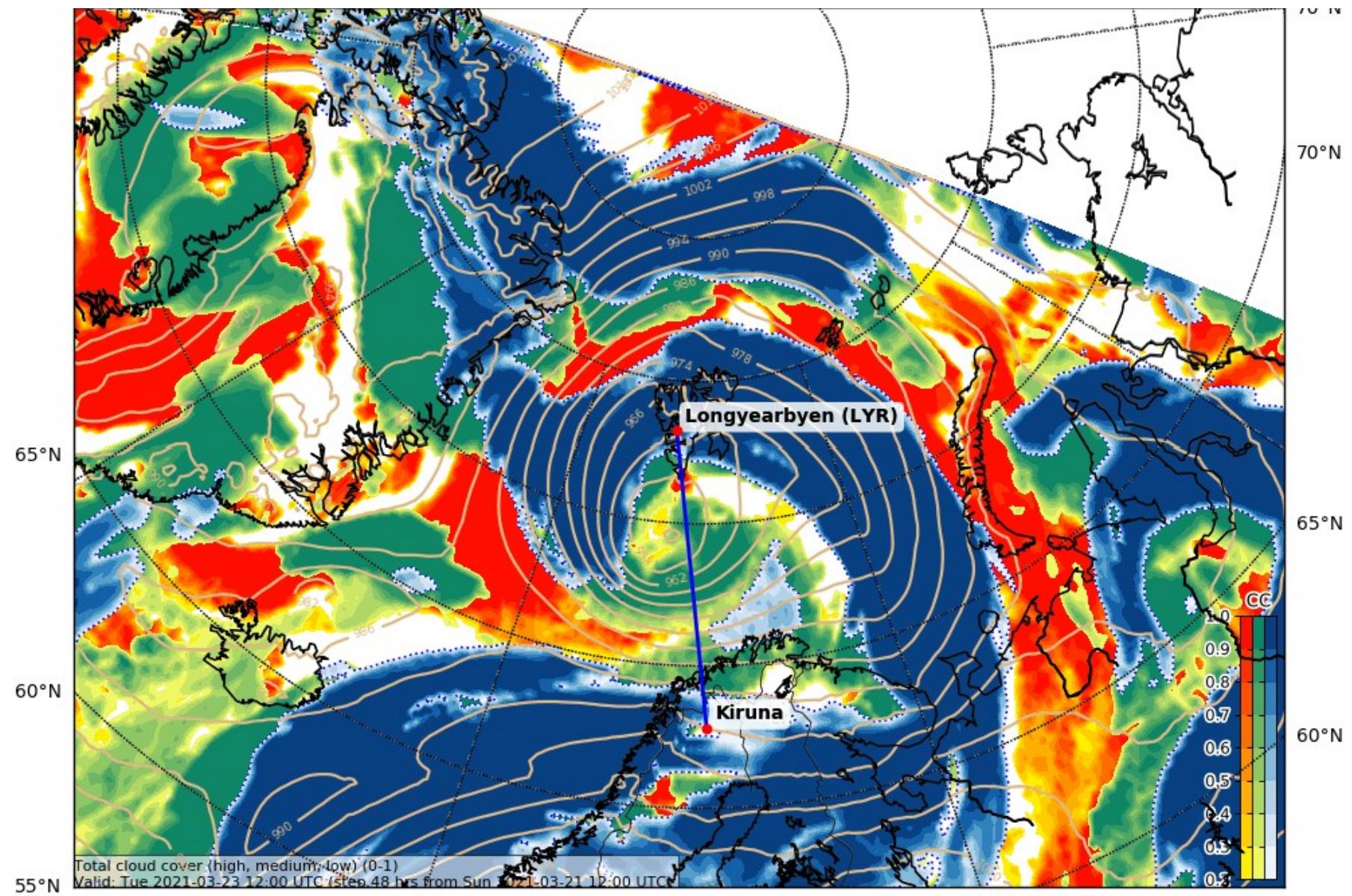
Mean sea level pressure and surface wind



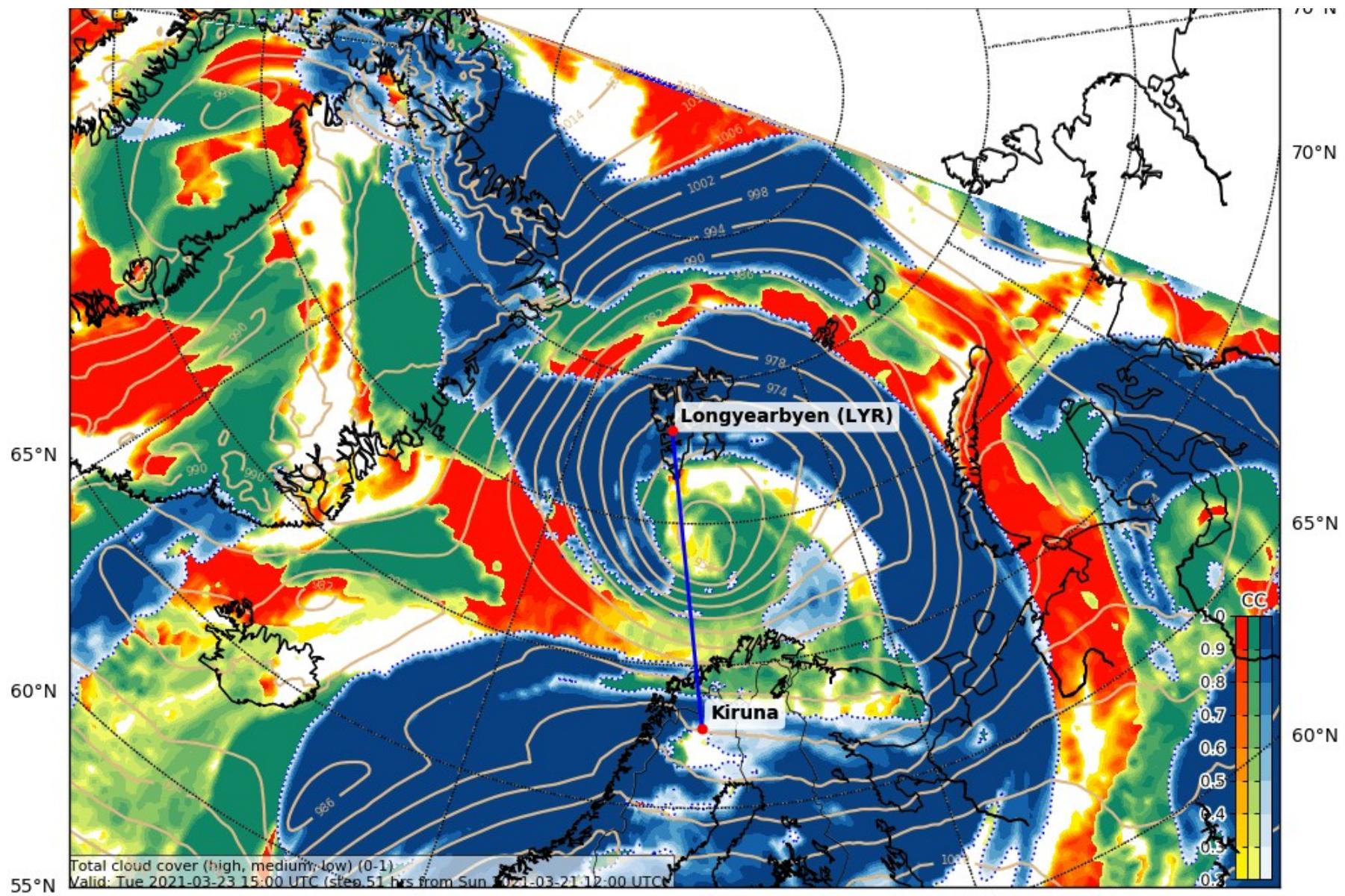
Total cloud cover (Tue, 23.03. 09 UTC, ECMWF)



Total cloud cover (Tue, 23.03. 12 UTC, ECMWF)

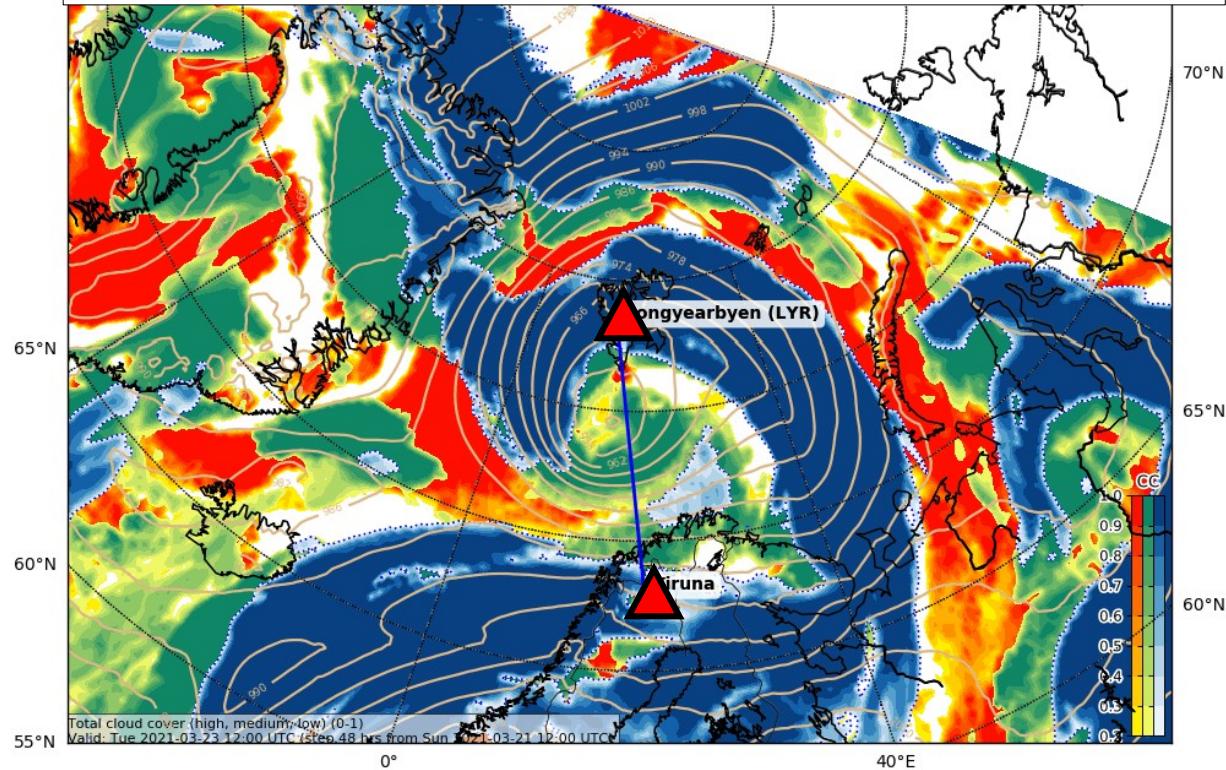


Total cloud cover (Tue, 23.03. 13 UTC, ECMWF)

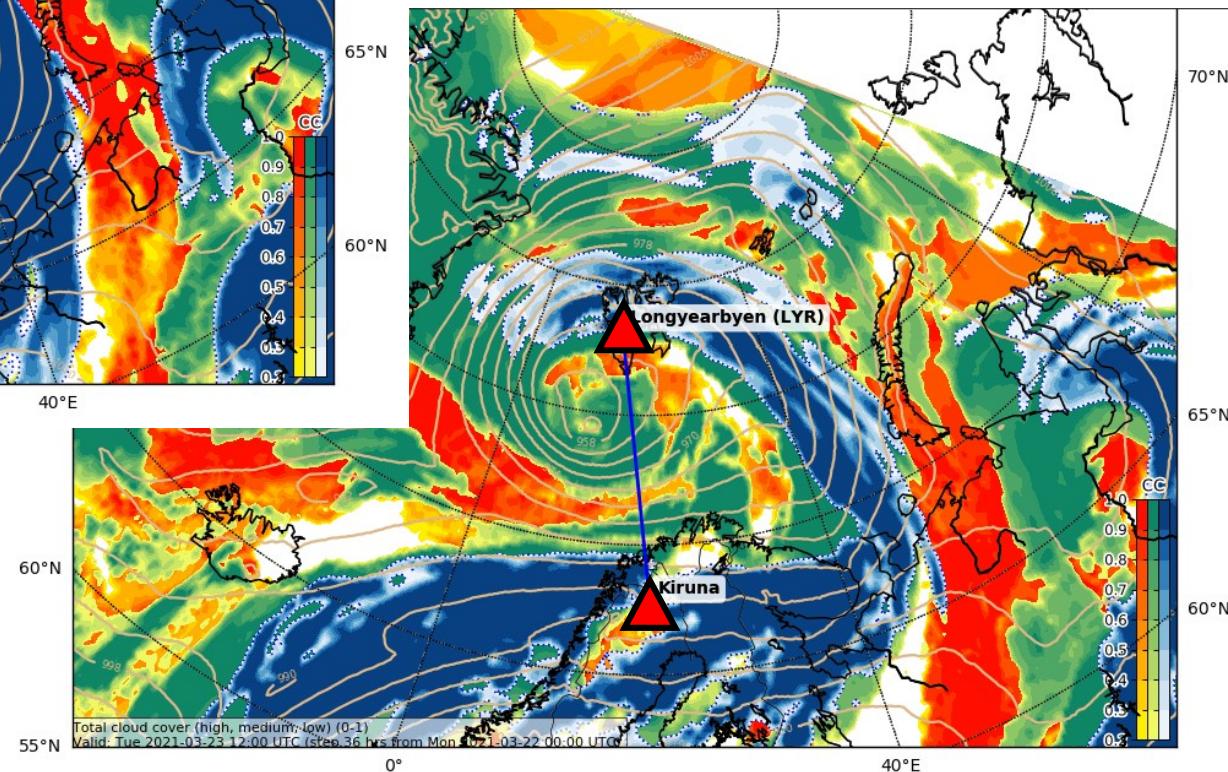


Total cloud cover – ECMWF vs. ICON (Tue, 23.03. 12 UTC)

ECMWF

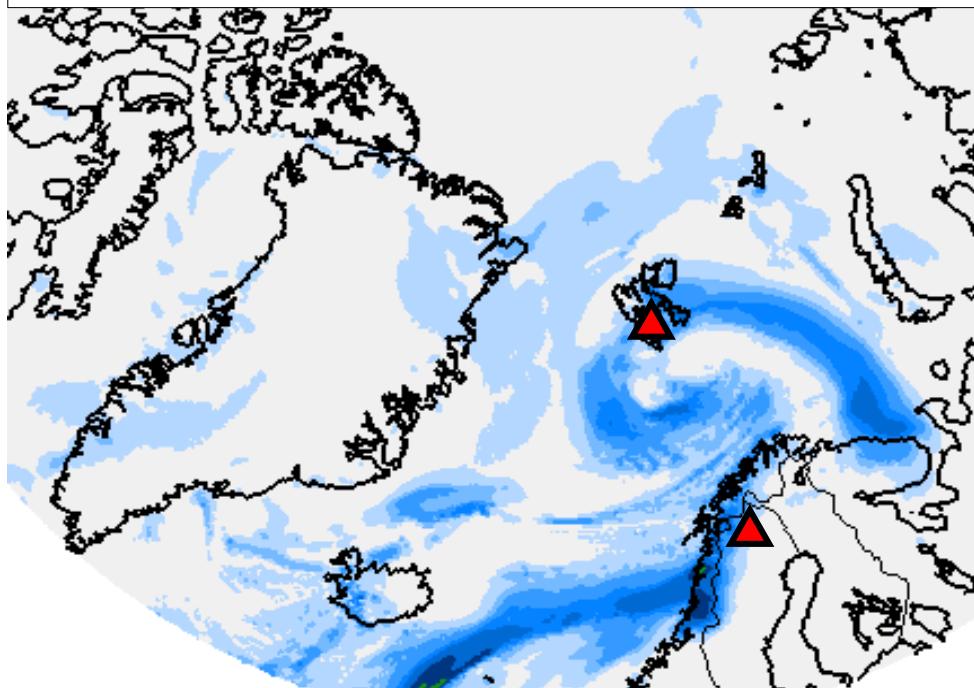


ICON

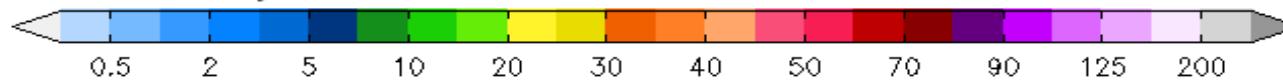
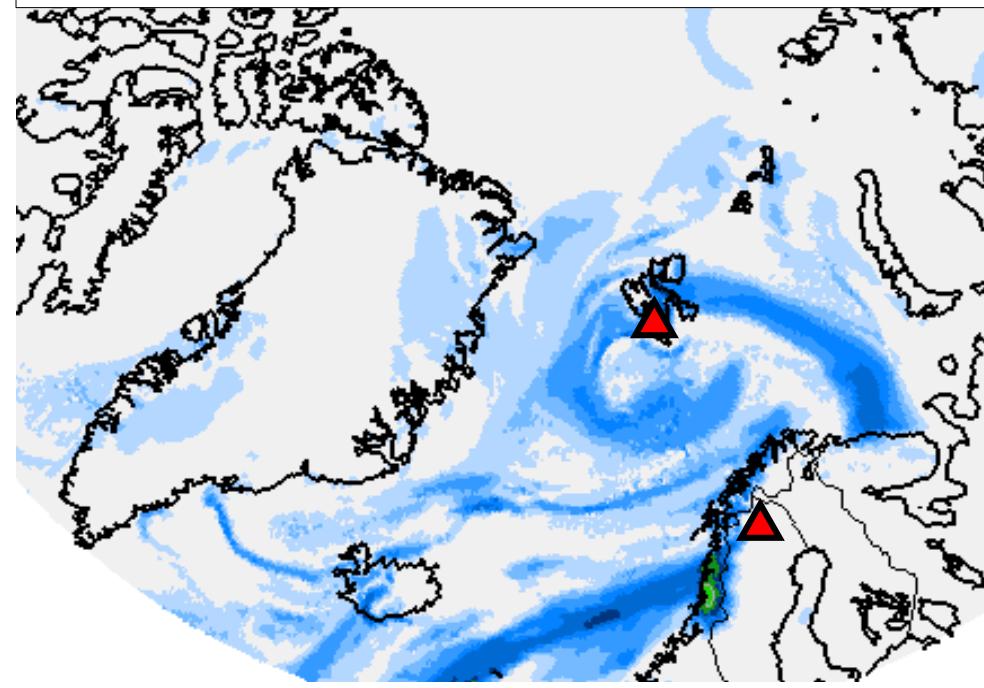


3h - Surface Precipitation (Tue, 23.03. 12 UTC)

ECMWF



ICON

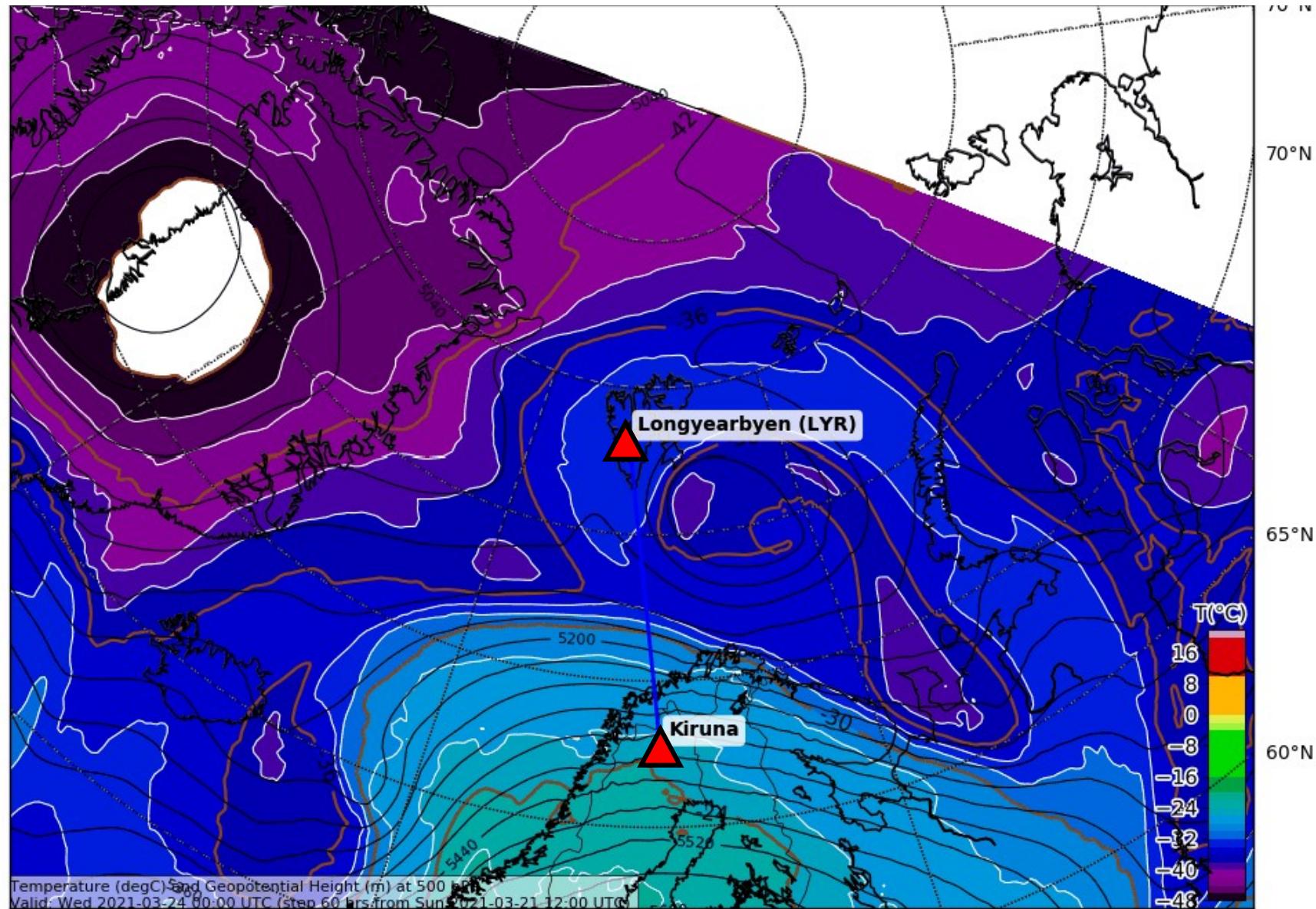


Summary: Tue, 23.03.2021

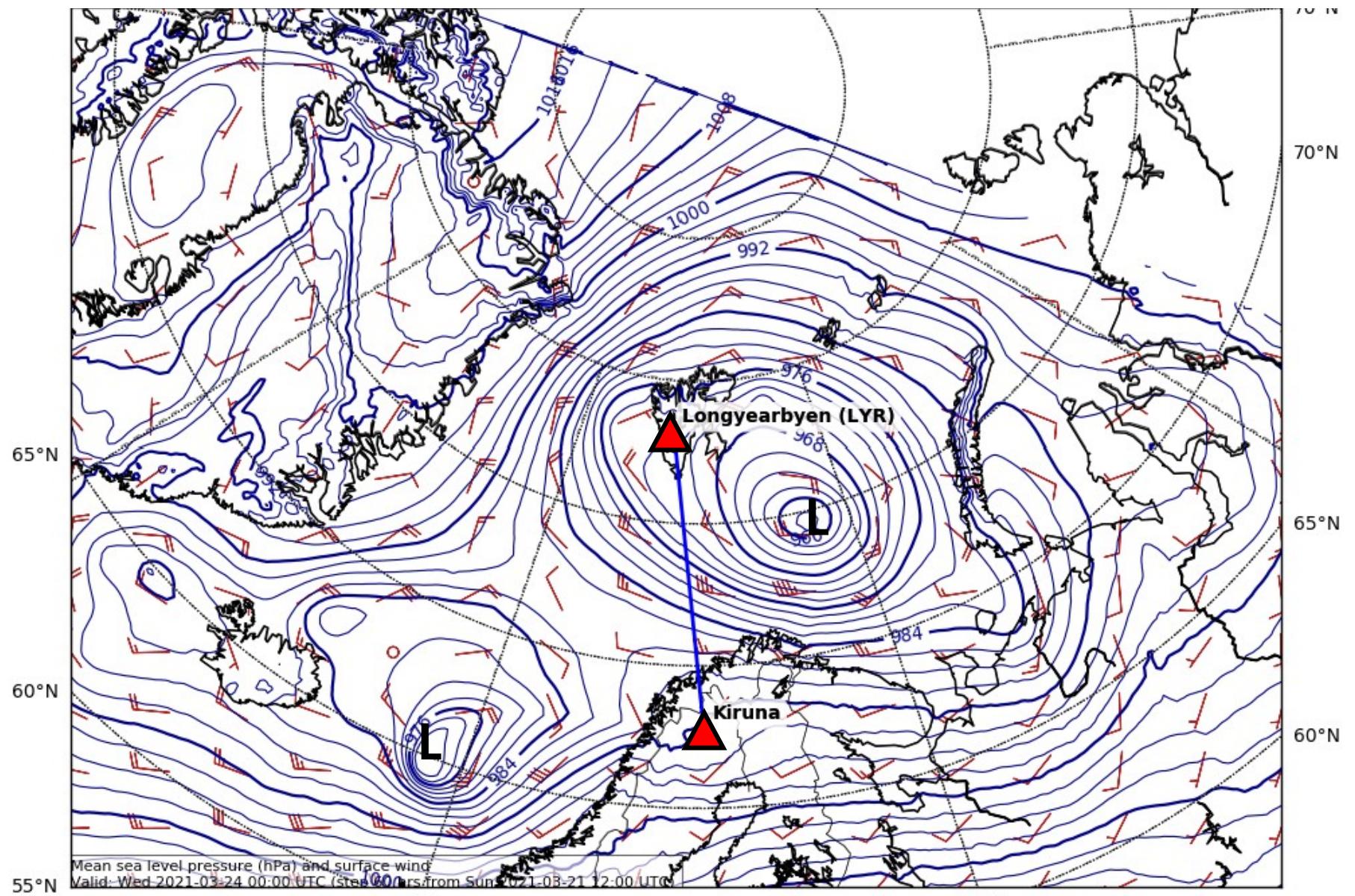
- Low pressure system passes south of Svalbard
- Passage of warm front and warm air advection into the region south of Svalbard
- Influence of warm front with high cloud cover and precipitation throughout the whole day over Svalbard
- Northerly flow will establish after the passage of the low with new cold air advection into Fram Straight

Wednesday, 24 March 2021

500 hPa: Temperature (°C) & Geopotential (gpdm) (Wed, 24.03. 00 UTC, ECMWF)

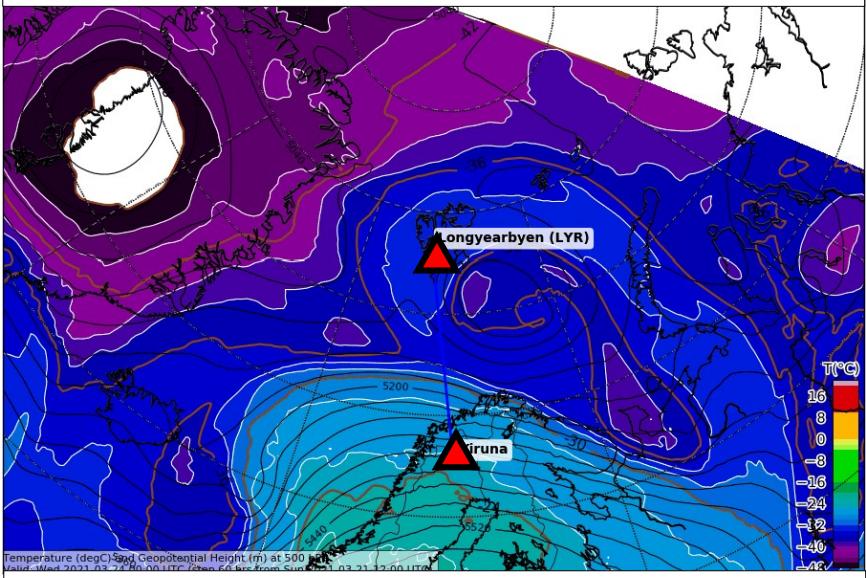


Mean sea level pressure (hPa) and surface wind (Wed, 24.03. 00 UTC, ECMWF)

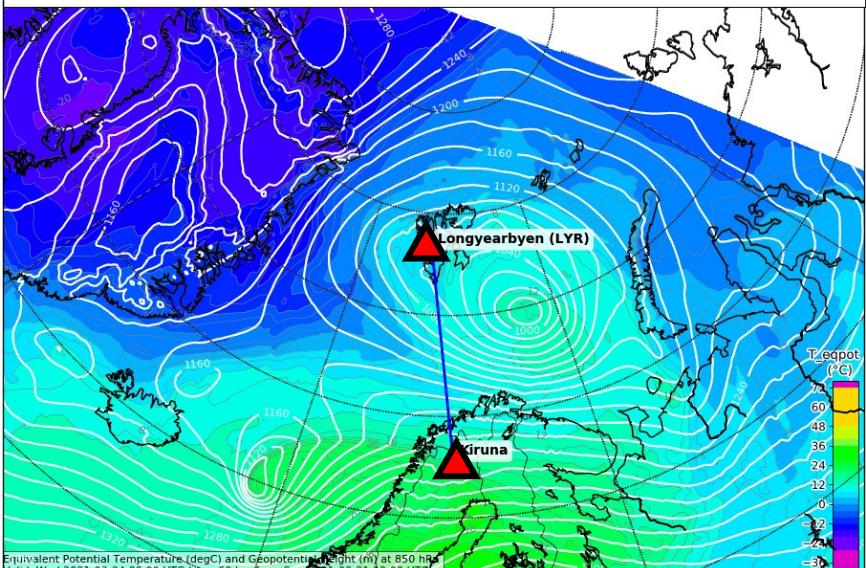


General weather situation (Wed, 24.03 00 UTC, ECMWF)

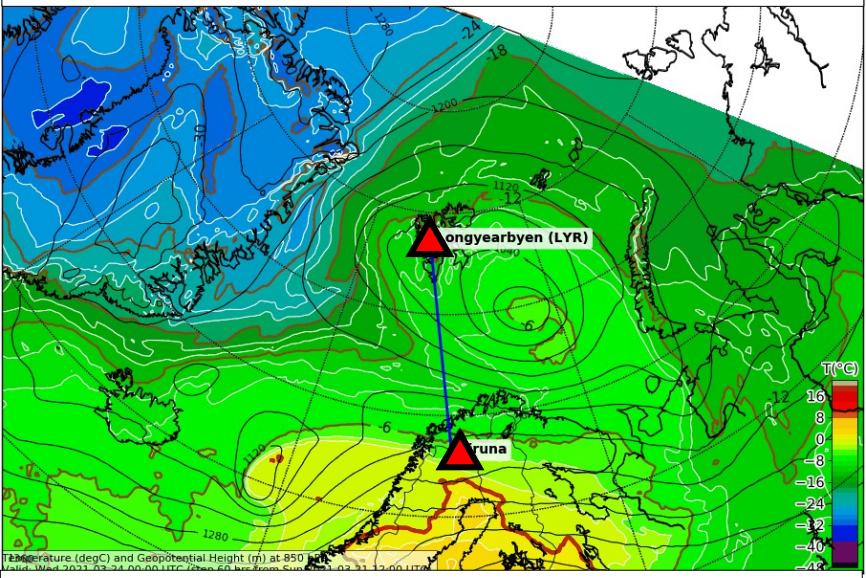
500 hPa: Temperature & Geopotential



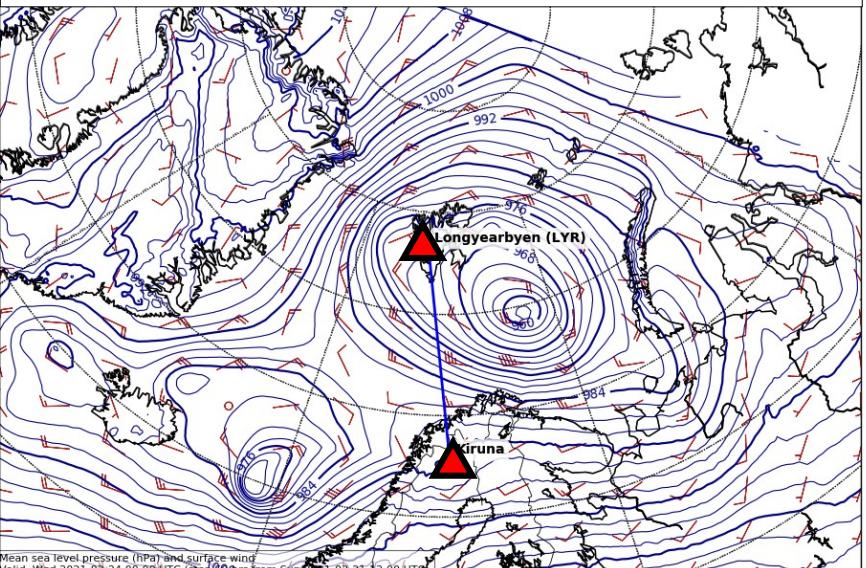
850 hPa: Equi. Pot. Temperature & Geopotential



850 hPa: Temperature & Geopotential

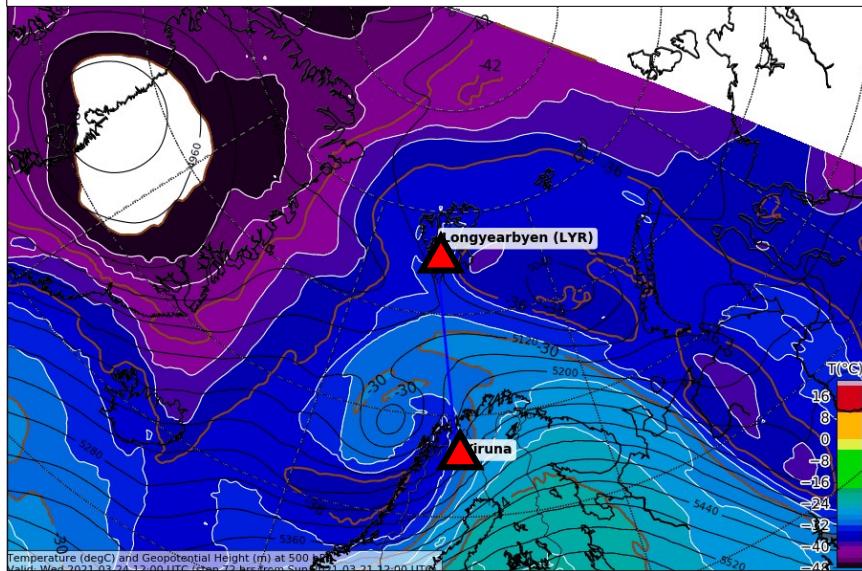


Mean sea level pressure and surface wind

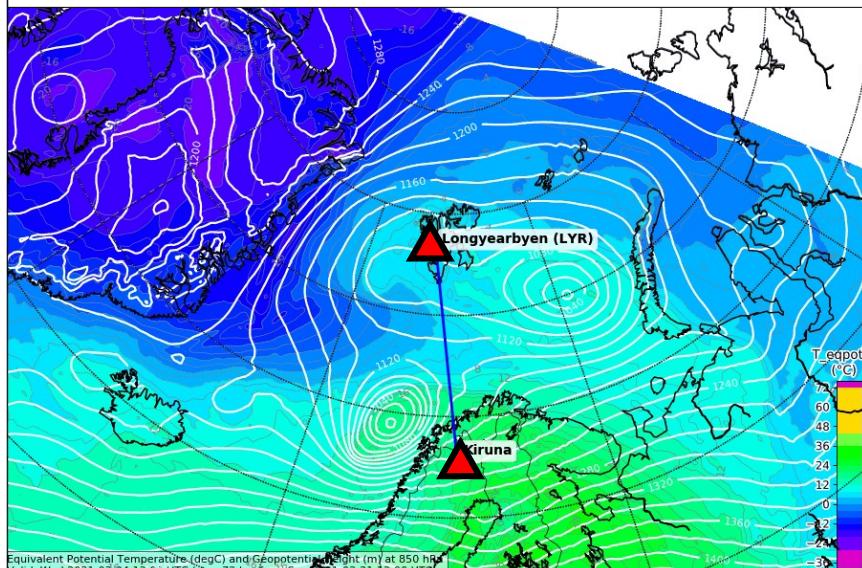


General weather situation (Wed, 24.03 12 UTC, ECMWF)

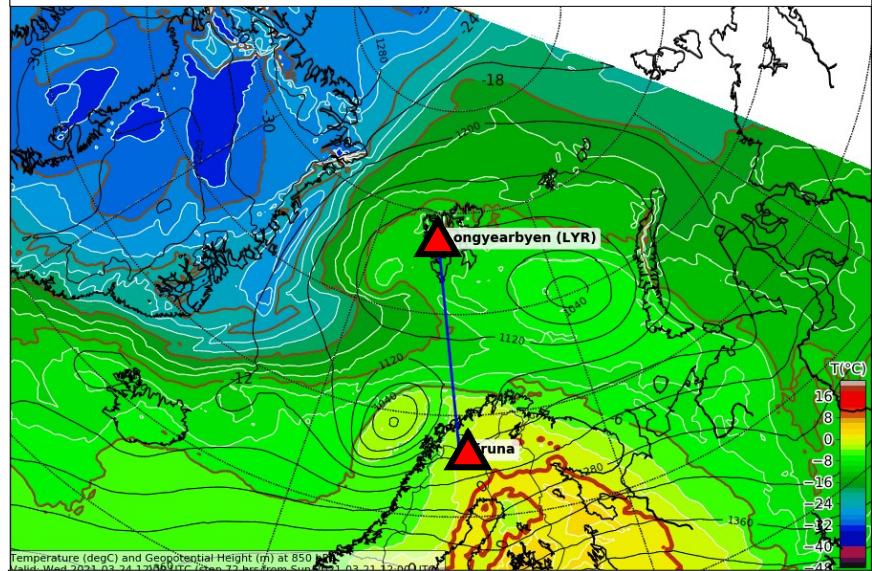
500 hPa: Temperature & Geopotential



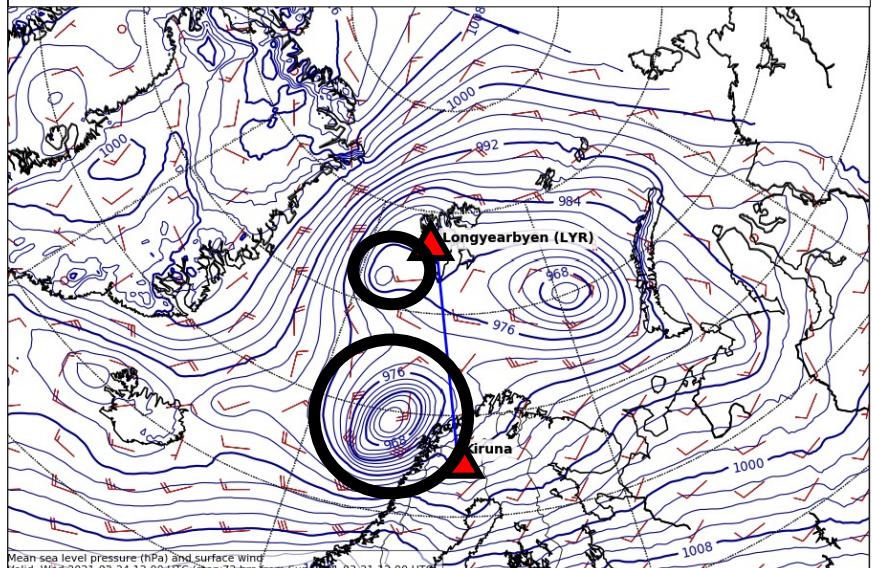
850 hPa: Equi. Pot. Temperature & Geopotential



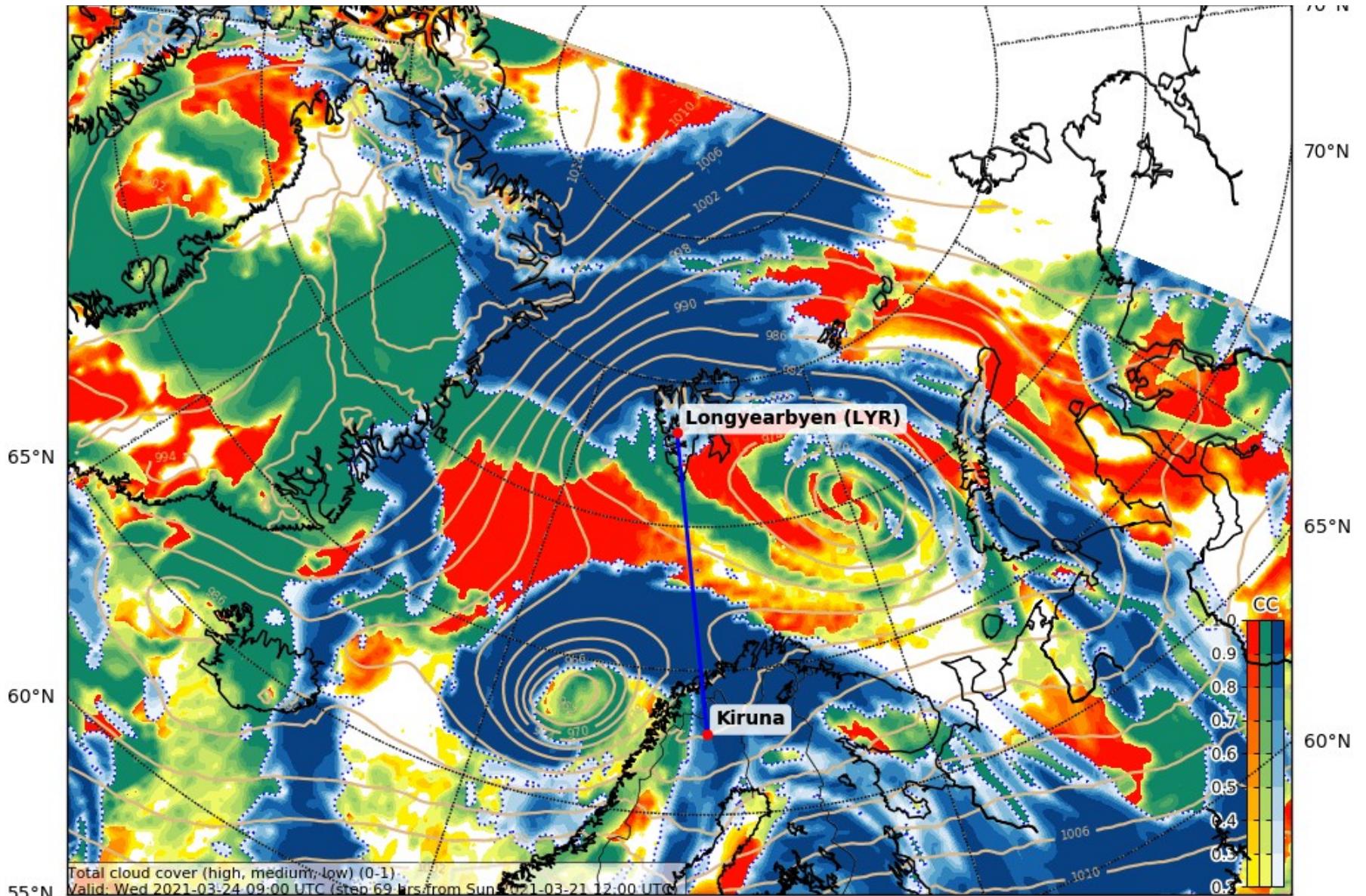
850 hPa: Temperature & Geopotential



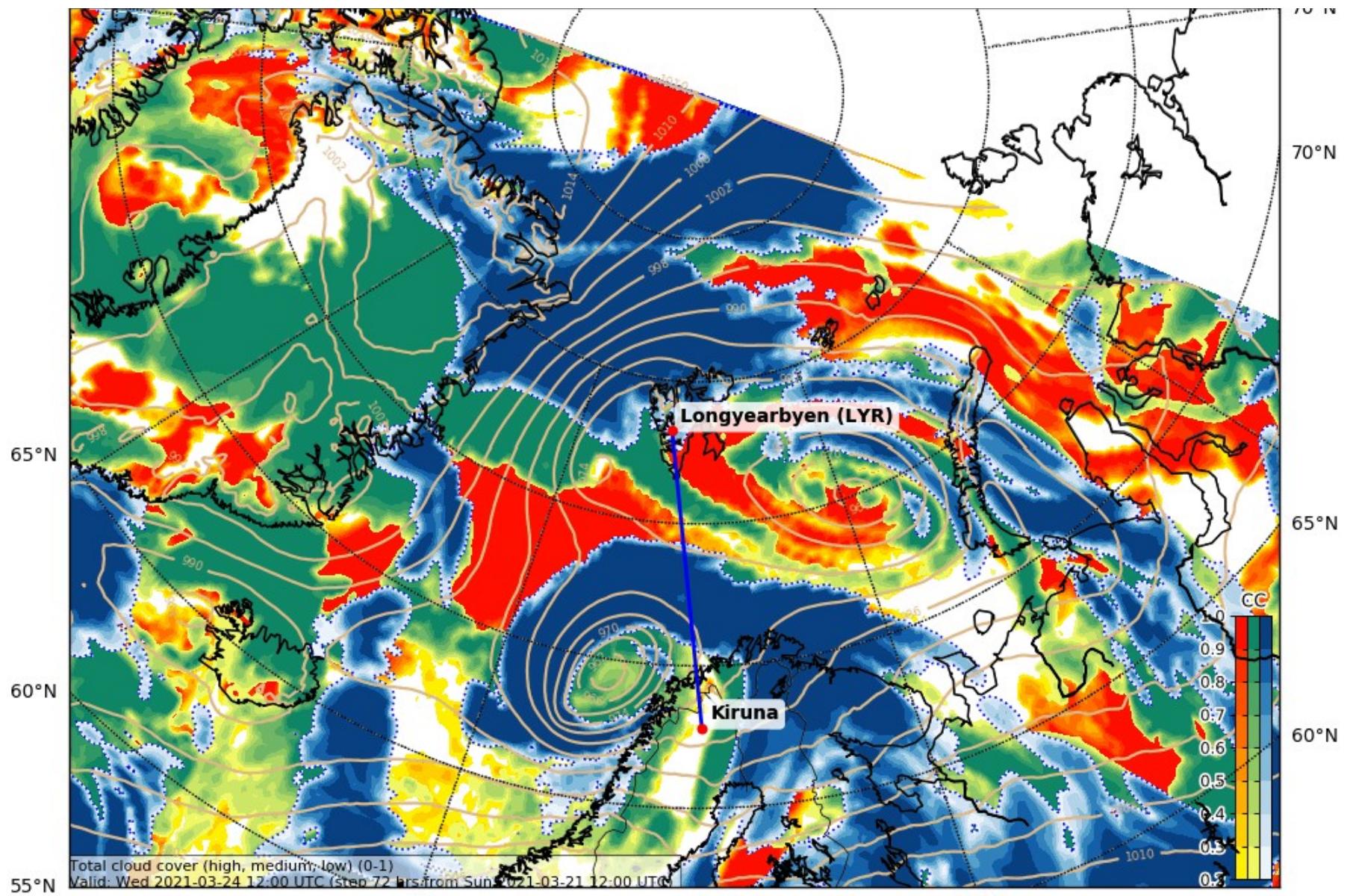
Mean sea level pressure and surface wind



Total cloud cover (Wed, 24.03. 09 UTC, ECMWF)

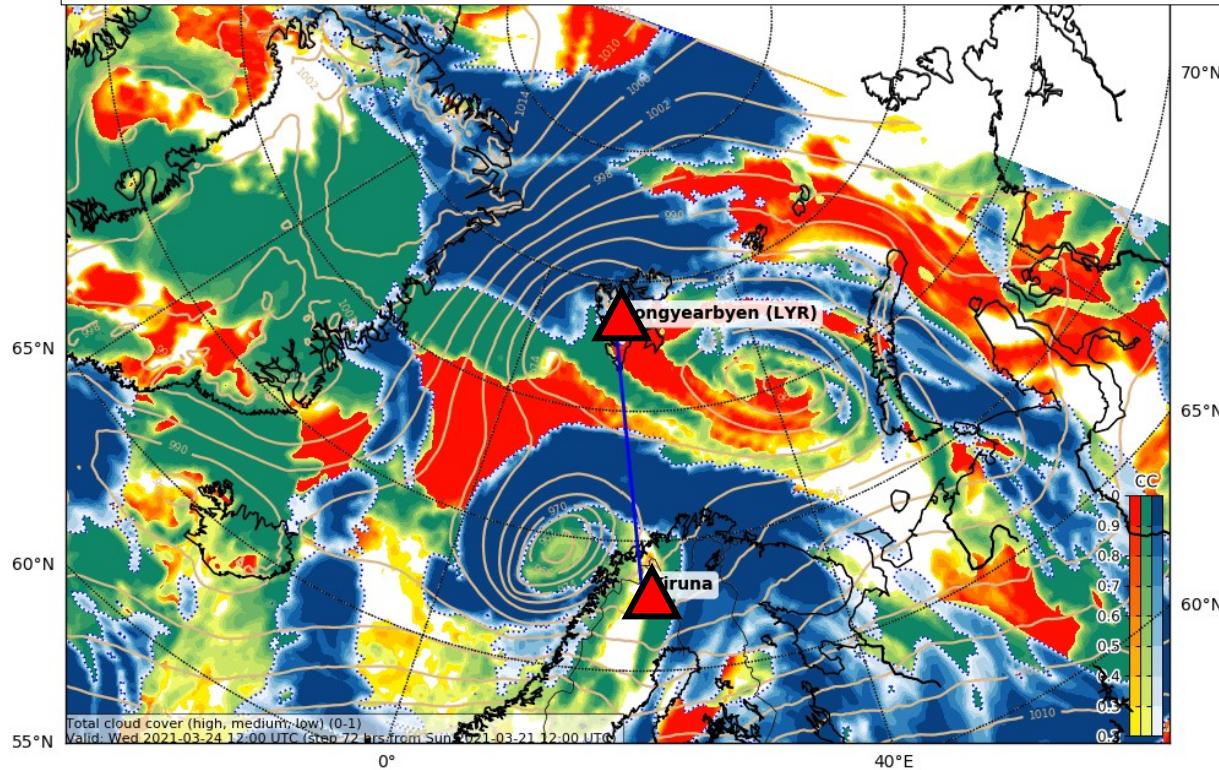


Total cloud cover (Wed, 24.03. 12 UTC, ECMWF)

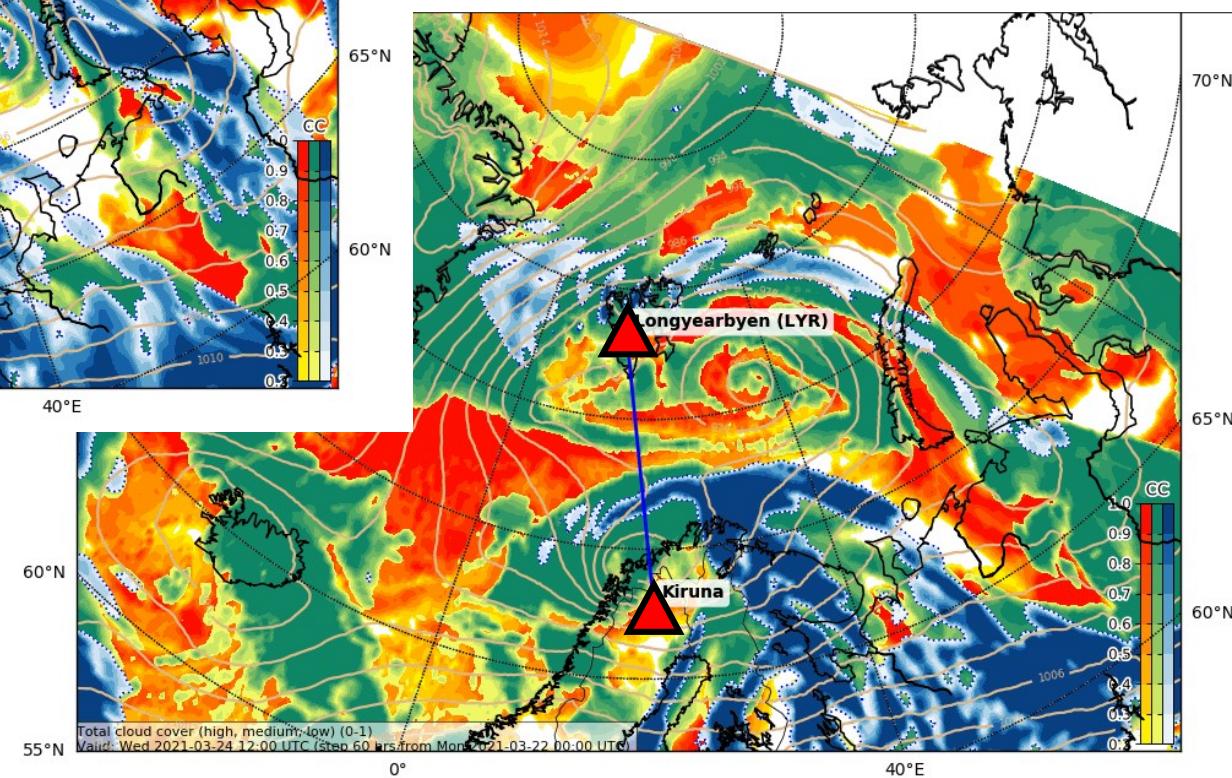


Total cloud cover – ECMWF vs. ICON (Wed, 24.03. 12 UTC)

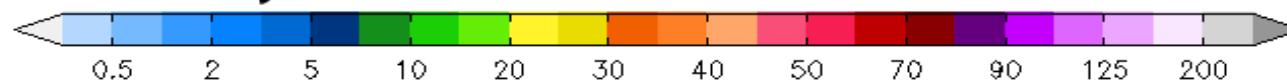
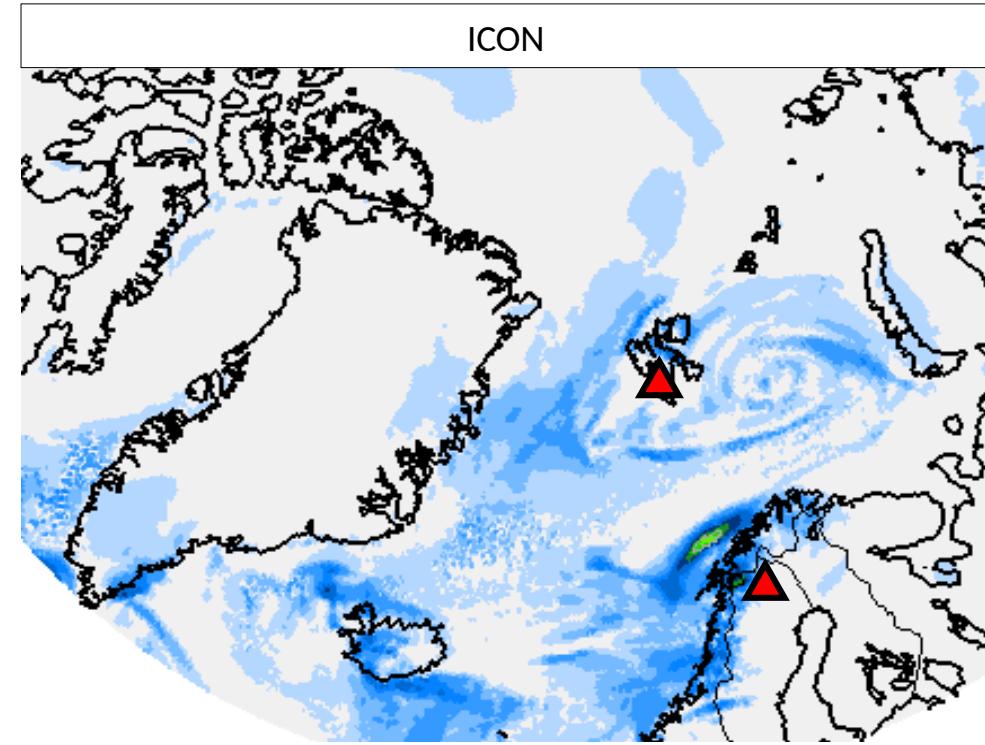
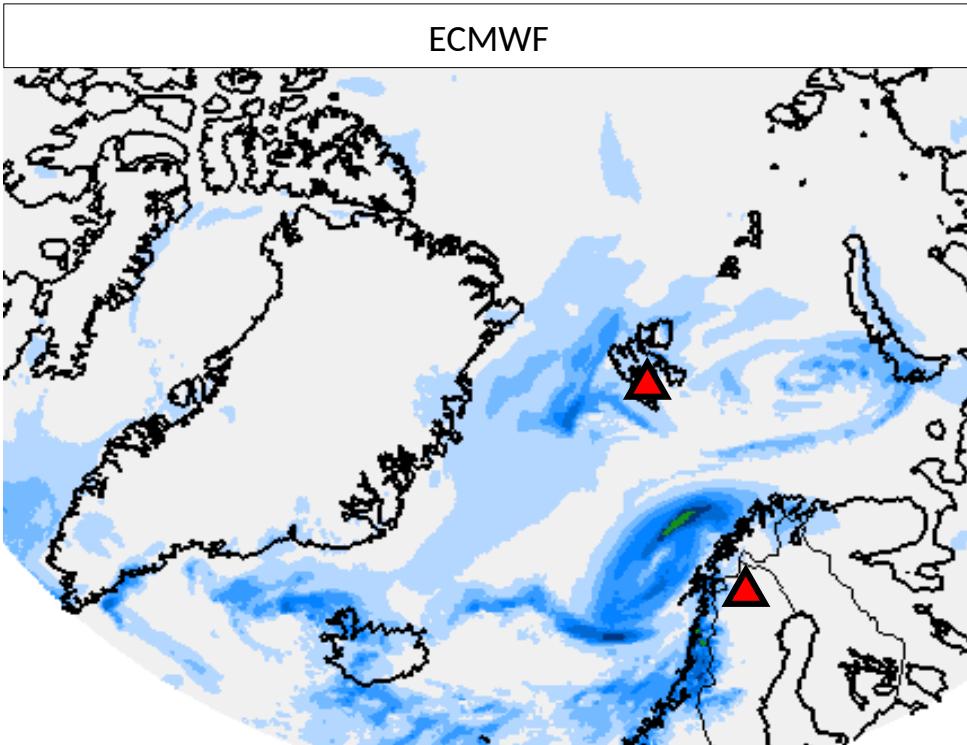
ECMWF



ICON



3h - Surface Precipitation (Wed, 24.03. 12 UTC)

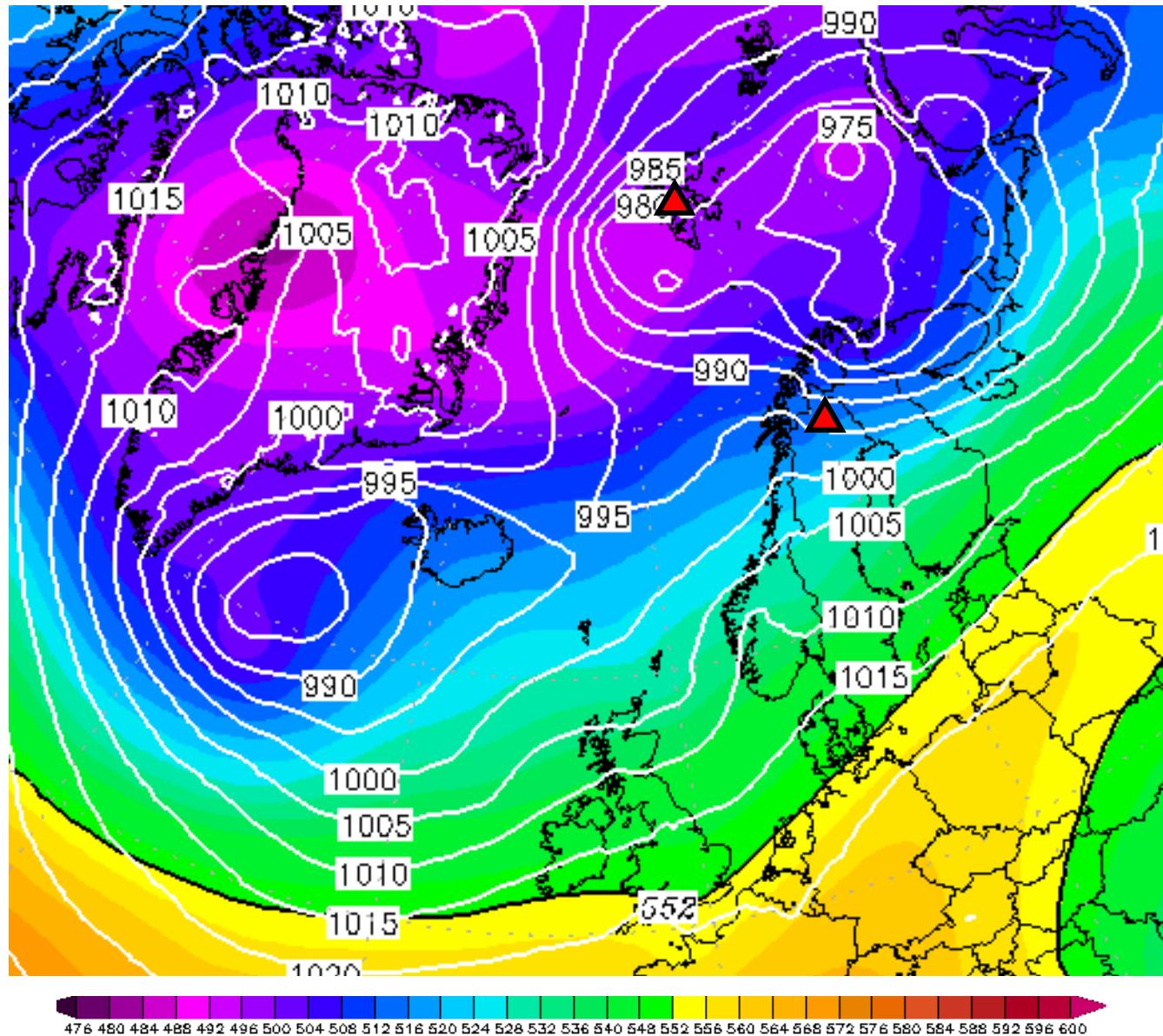


Summary: Wed, 24.03.2021

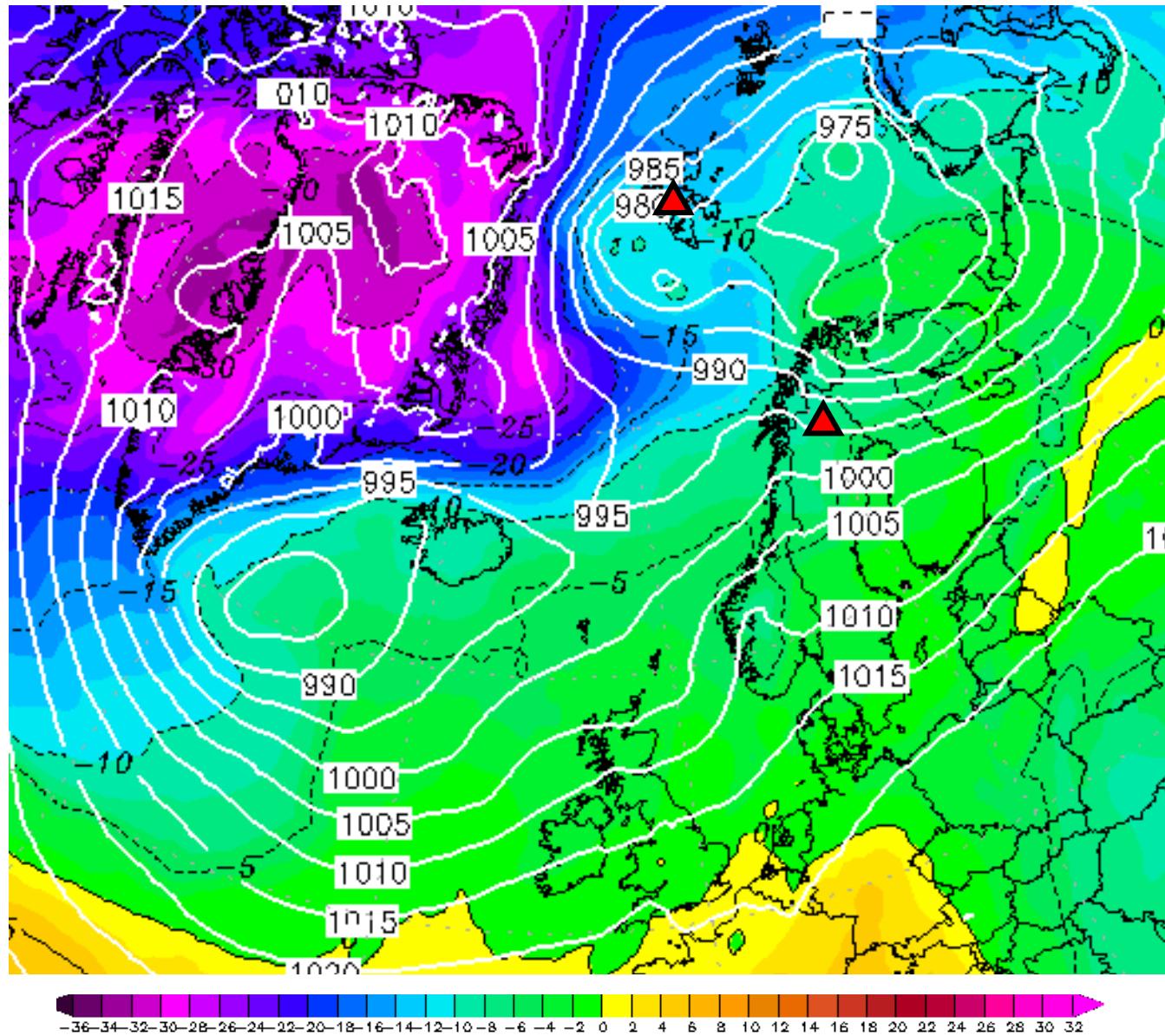
- Low pressure system that passed yesterday will become stationary east of Svalbard
- Moist airmass with high amount of clouds (in all layers) and some precipitation around Svalbard
- Low will pass Kiruna in the early afternoon, but only limited amount of precipitation in lee of Scandinavian mountain

Thursday, 25 March 2021

Geopotential 500hpa (gpdm) & Surface Pressure (hPa) (Thu, 25.03. 00 UTC, ECMWF)

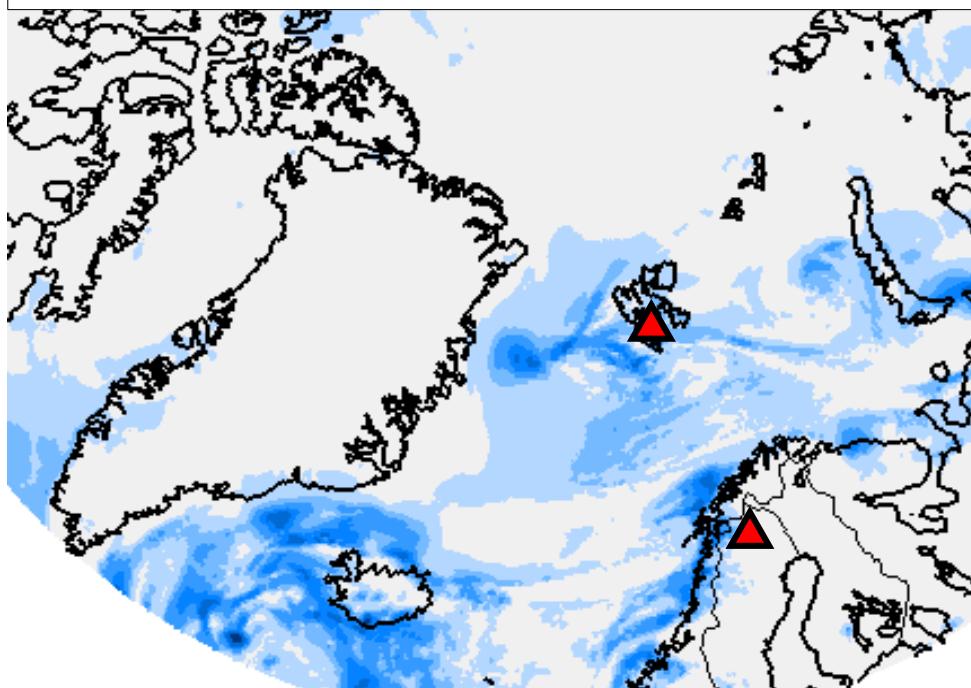


Temperature 850 hPa (°C) & Surface Pressure (hPa) (Thu, 25.03. 00 UTC, ECMWF)

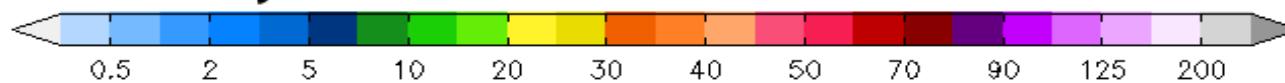
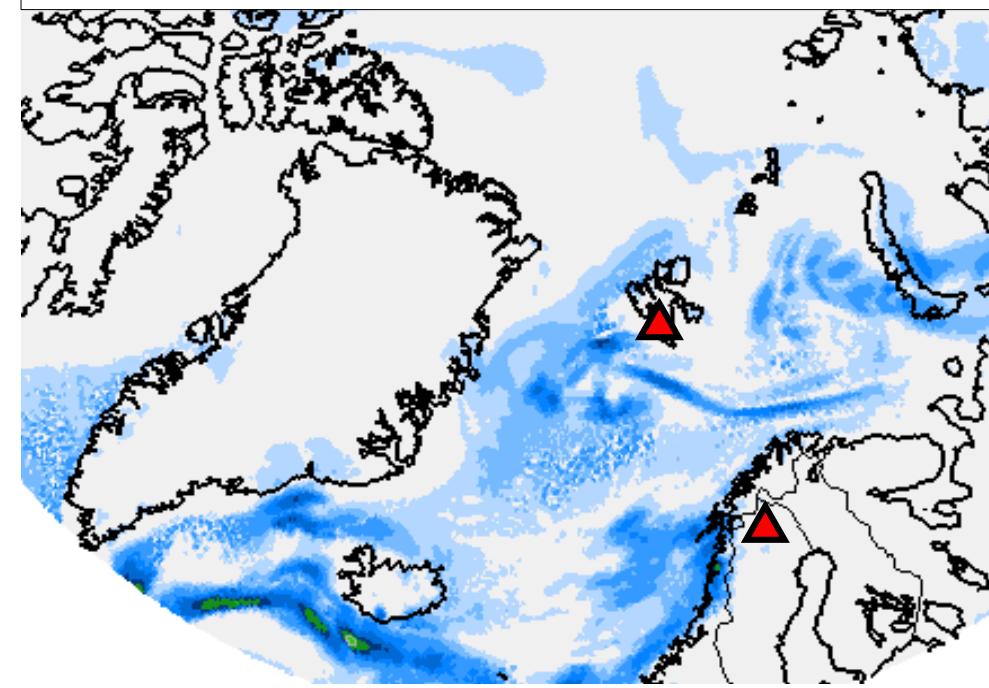


3h - Surface Precipitation (Thu, 25.03. 12 UTC)

ECMWF



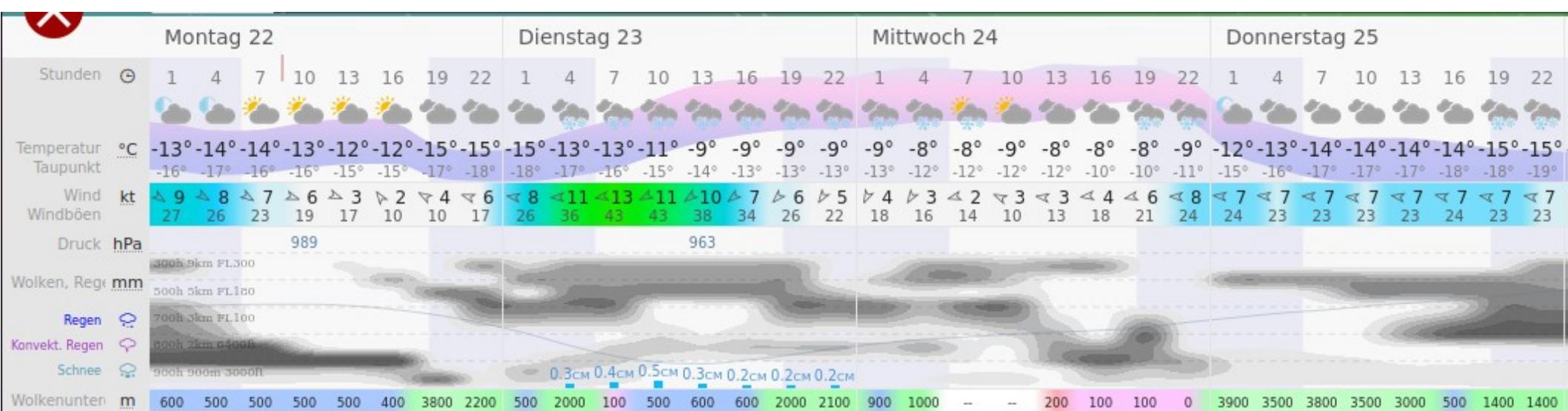
ICON



Summary: Thu, 25.03.2021

- Stationary low pressure system east of Svalbard is slowly decaying
- Weak low south of Svalbard causes upward motion and high amount of clouds (in all layers) in the moist airmass
- Continued precipitation in the region of interest

Meteogram Longyearbyen (Mon 22.03. - Thu 25.03)



Meteogram Kiruna (Mon 22.03. - Thu 25.03)

