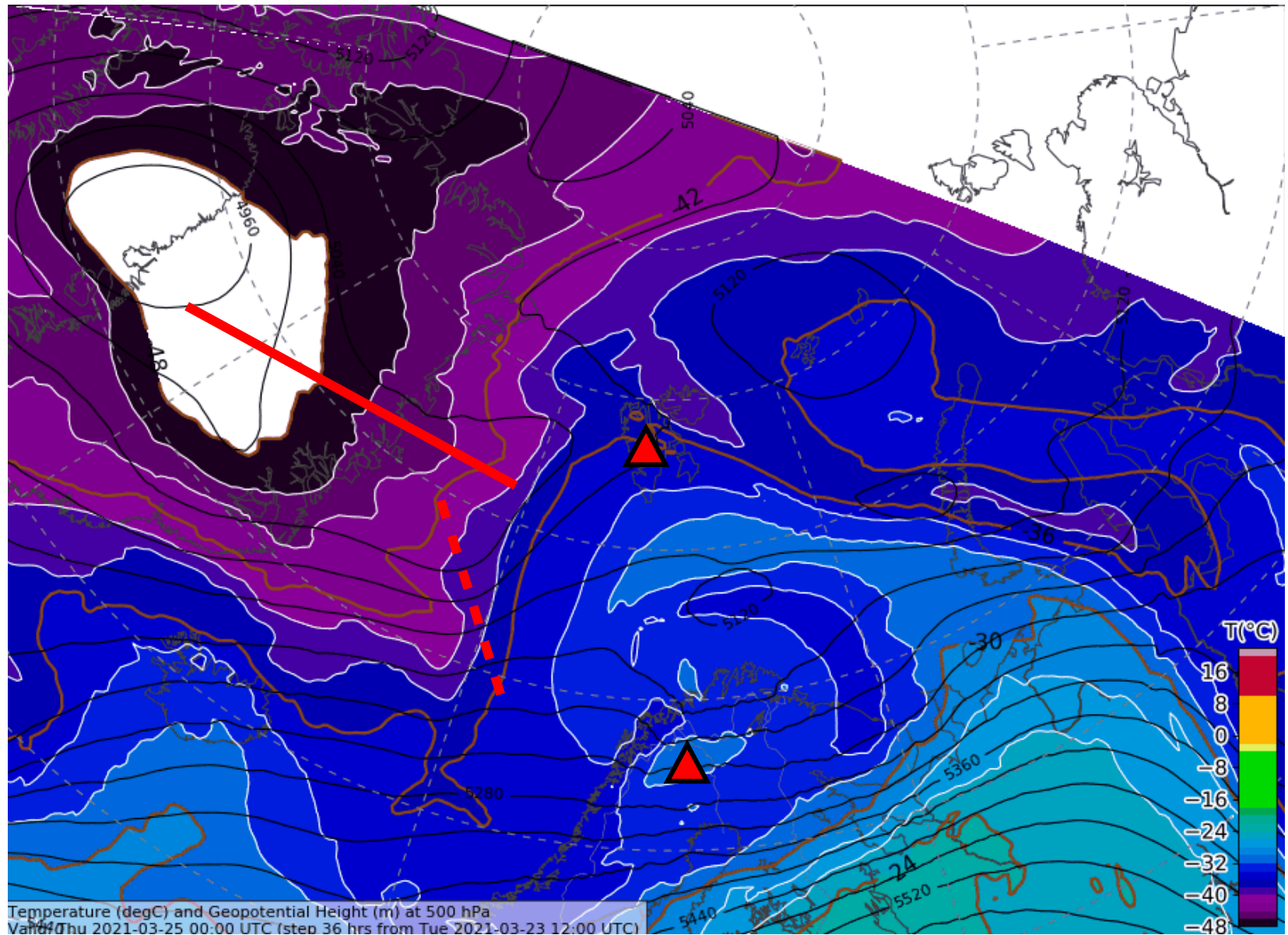


Weather briefing HALO-(AC)³

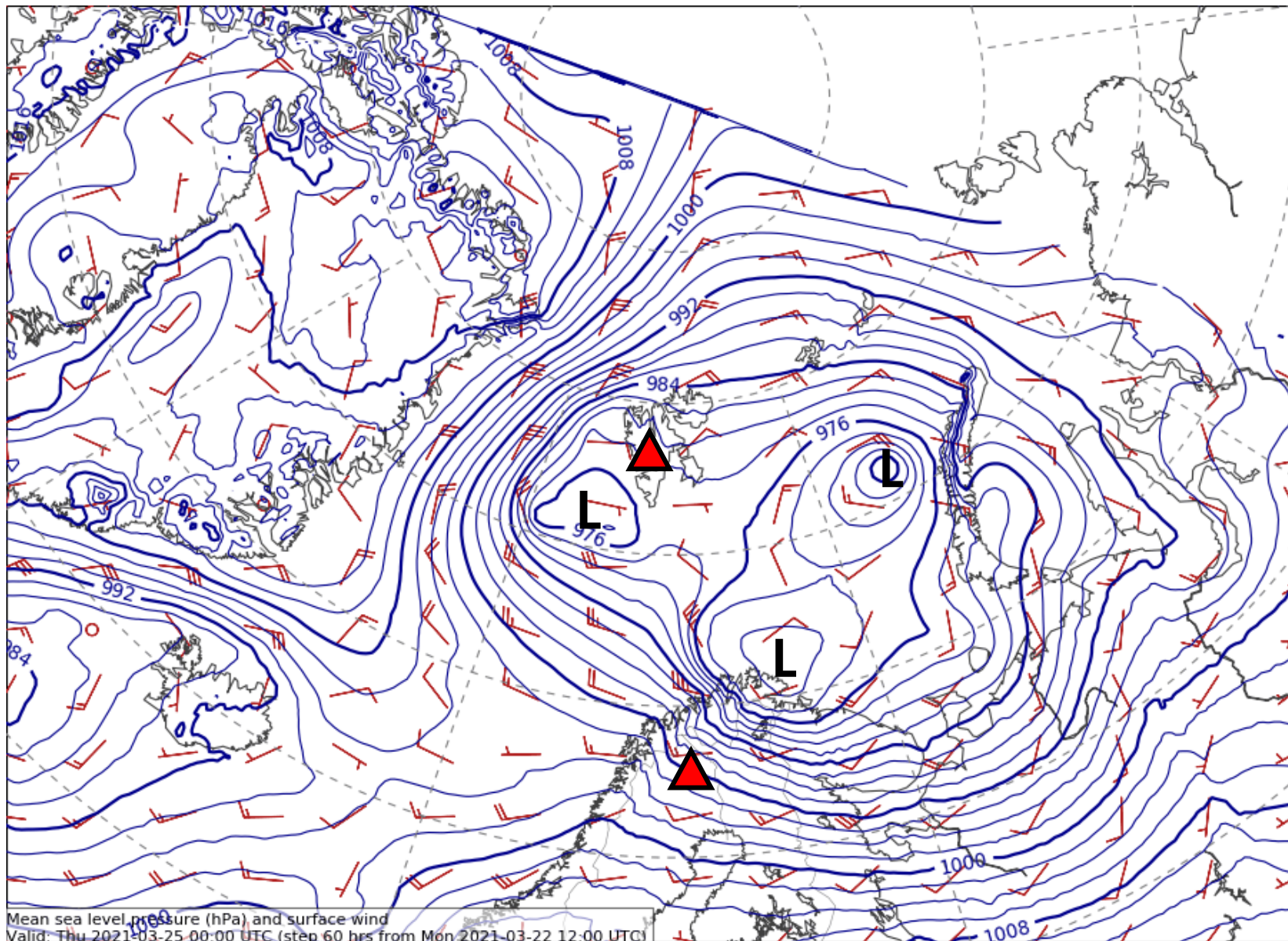
25 March 2021 – 26 March 2021

Thursday, 25 March 2021

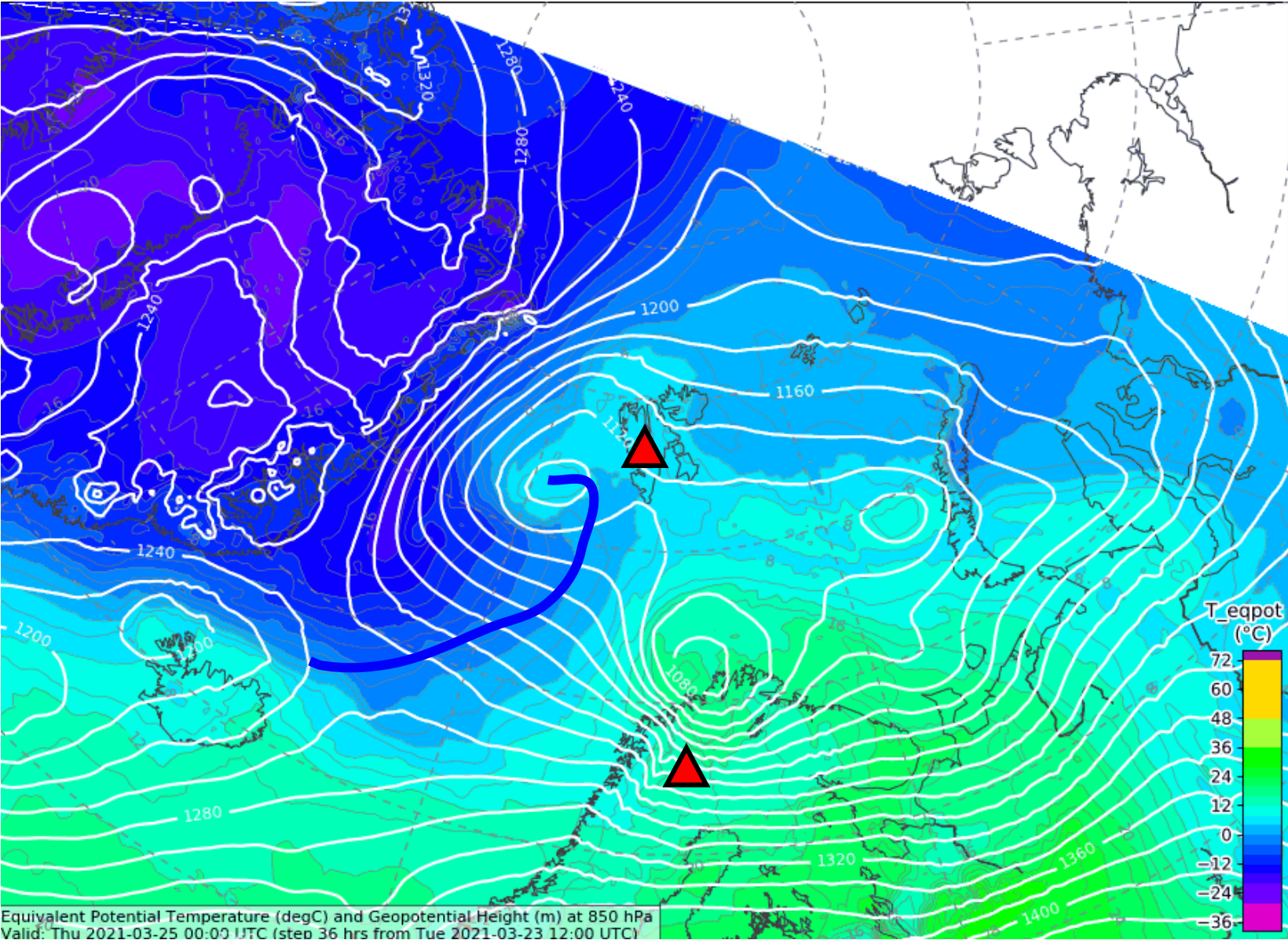
500 hPa: Temperature (°C) & Geopotential (gpdm) (Thu, 25.03. 00 UTC, ECMWF)



Mean sea level pressure (hPa) and surface wind (Thu, 25.03. 00 UTC, ECMWF)

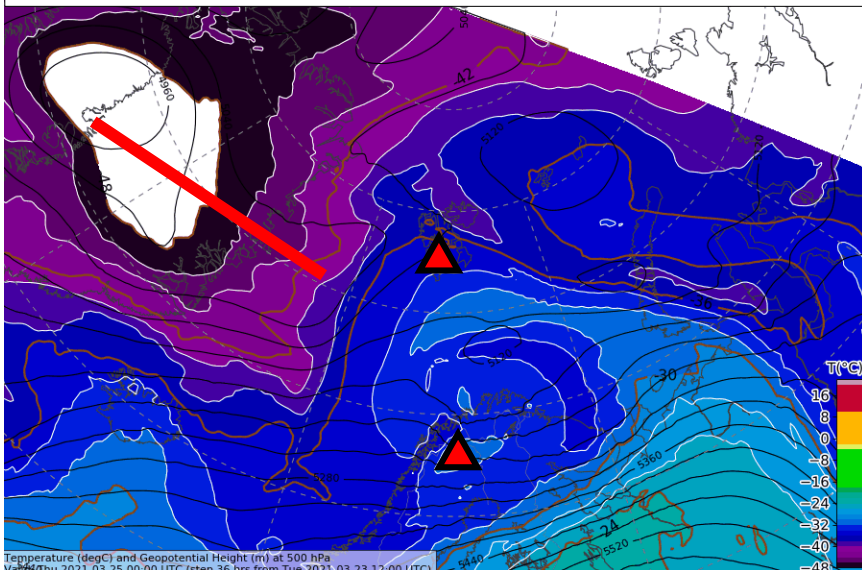


850 hPa: Eqi. Pot. Temperature (°C) & Geopotential (gpdm) (Thu, 25.03. 00 UTC, ECMWF)

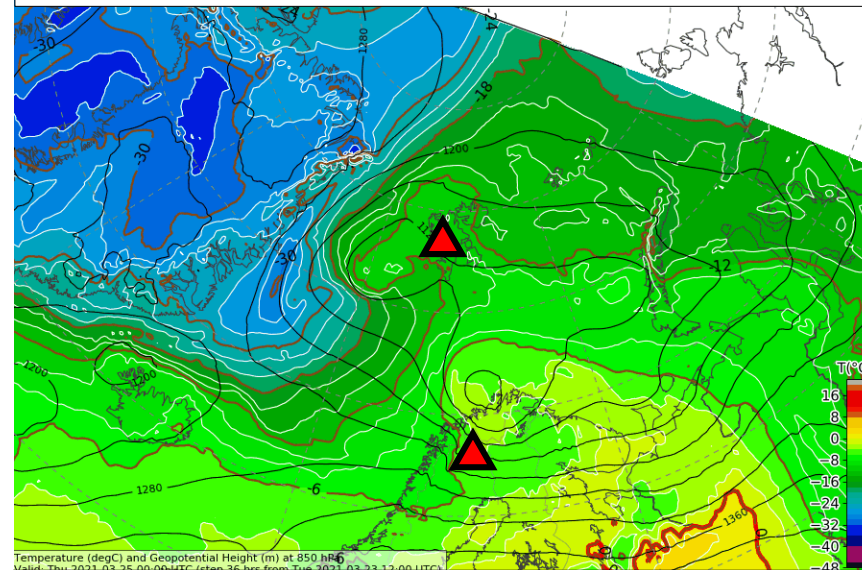


General weather situation (Thu, 25.03 00 UTC, ECMWF)

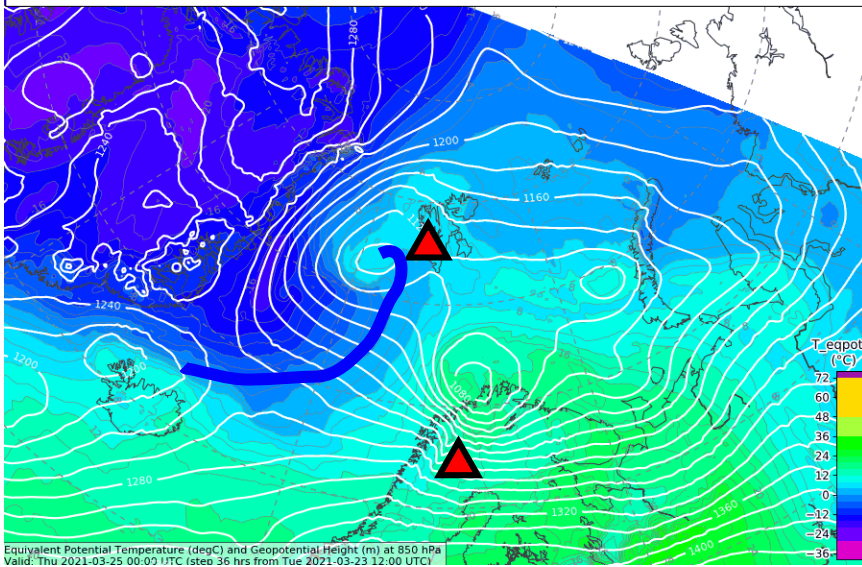
500 hPa: Temperature & Geopotential



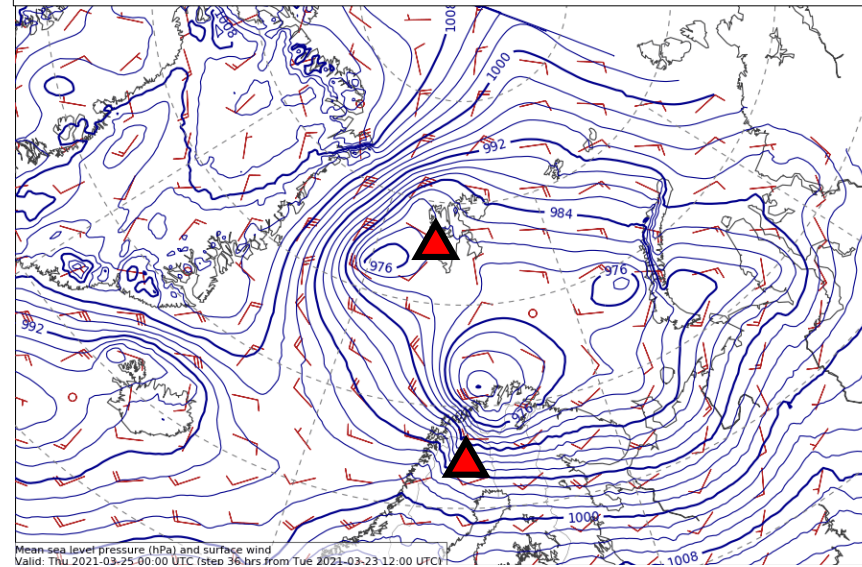
850 hPa: Temperature & Geopotential



850 hPa: Equi. Pot. Temperature & Geopotential

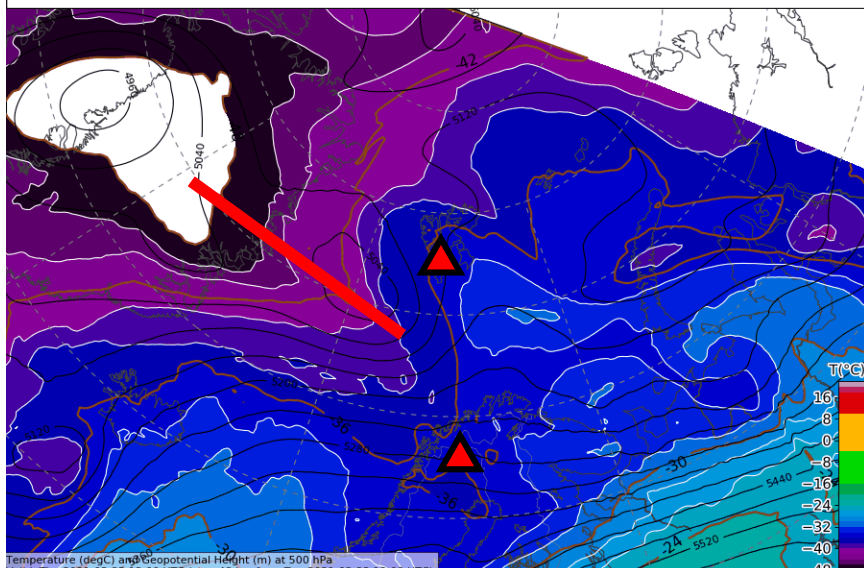


Mean sea level pressure and surface wind

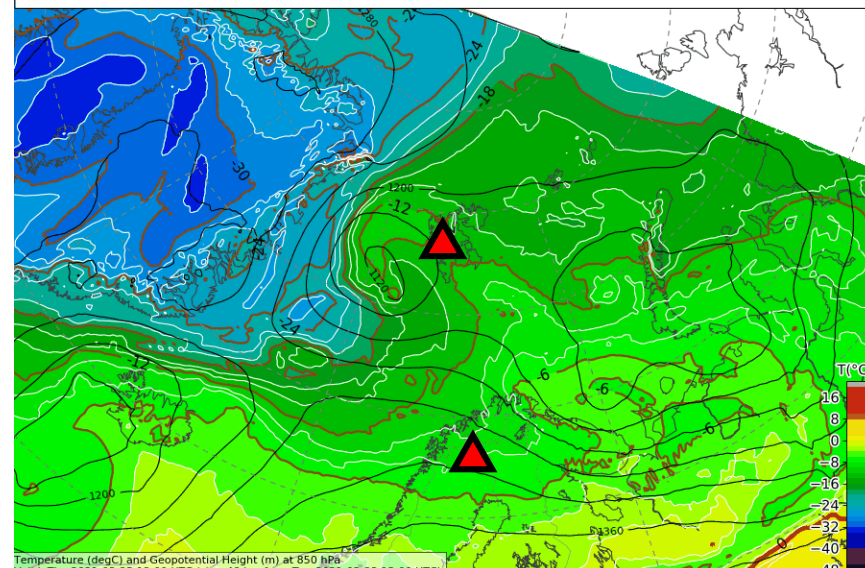


General weather situation (Thu, 25.03 12 UTC, ECMWF)

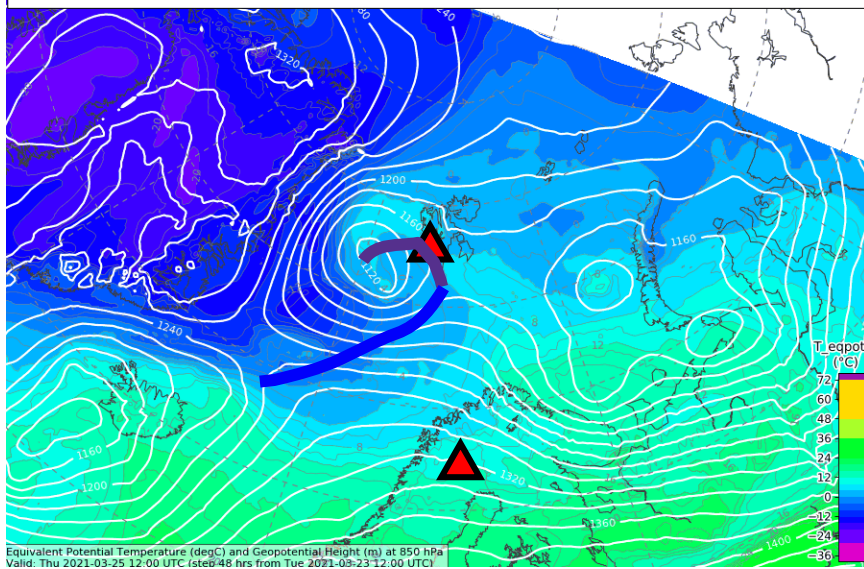
500 hPa: Temperature & Geopotential



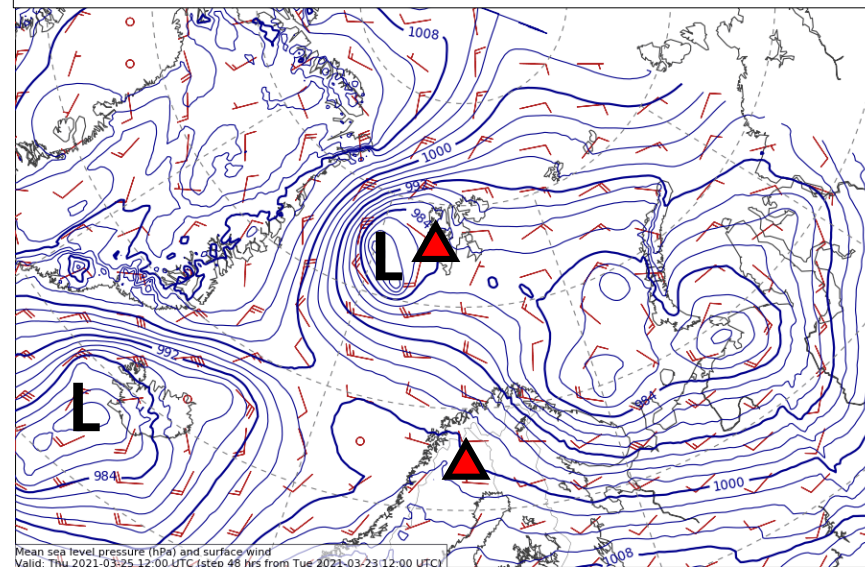
850 hPa: Temperature & Geopotential



850 hPa: Equi. Pot. Temperature & Geopotential

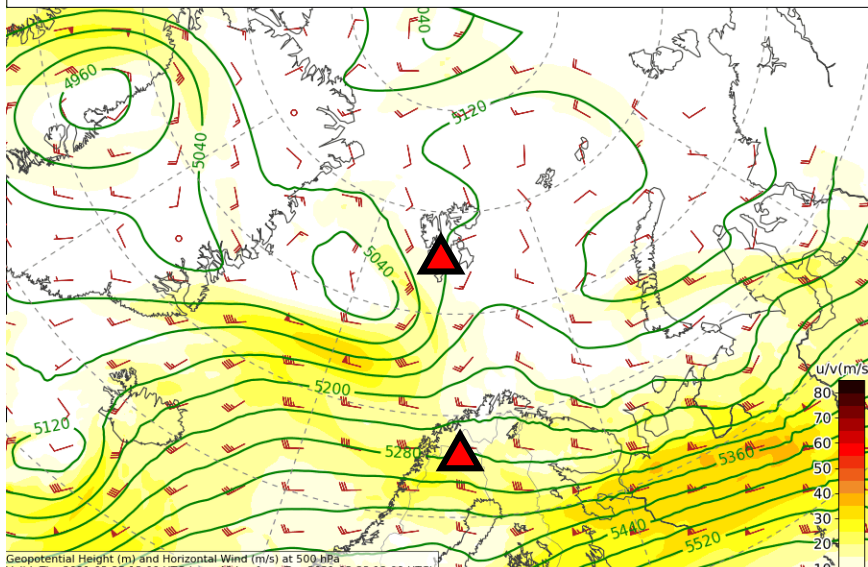


Mean sea level pressure and surface wind



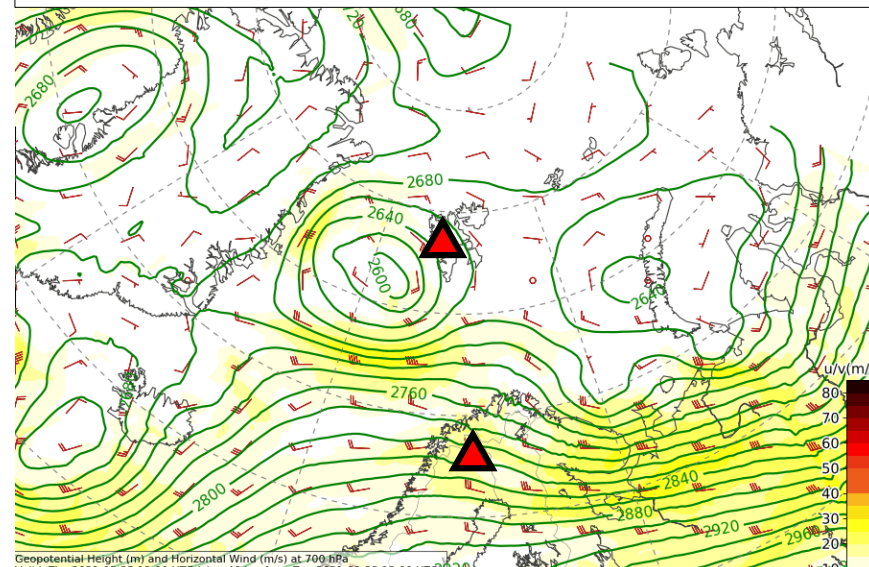
Winds (Thu, 25.03 12 UTC, ECMWF)

500 hPa: Wind & Geopotential



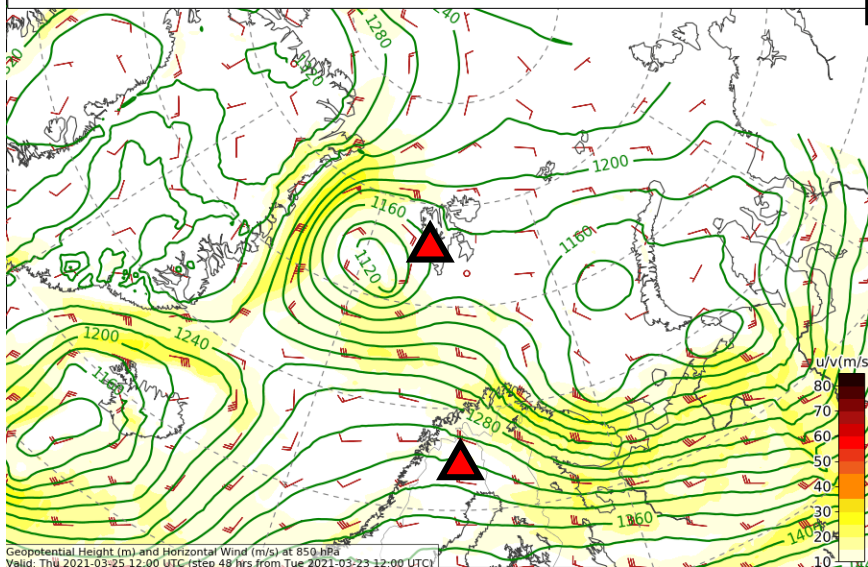
Geopotential Height (m) and Horizontal Wind (m/s) at 500 hPa
Valid: Thu 2021-03-25 12:00 UTC (steo 48 hrs from Tue 2021-03-23 12:00 UTC)

700 hPa: Wind & Geopotential



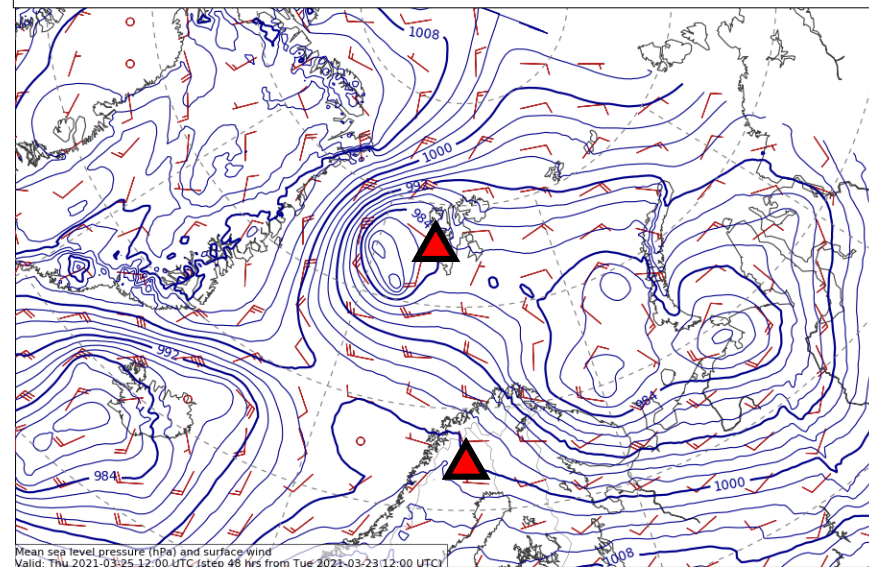
Geopotential Height (m) and Horizontal Wind (m/s) at 700 hPa
Valid: Thu 2021-03-25 12:00 UTC (steo 48 hrs from Tue 2021-03-23 12:00 UTC)

850 hPa: Wind & Geopotential



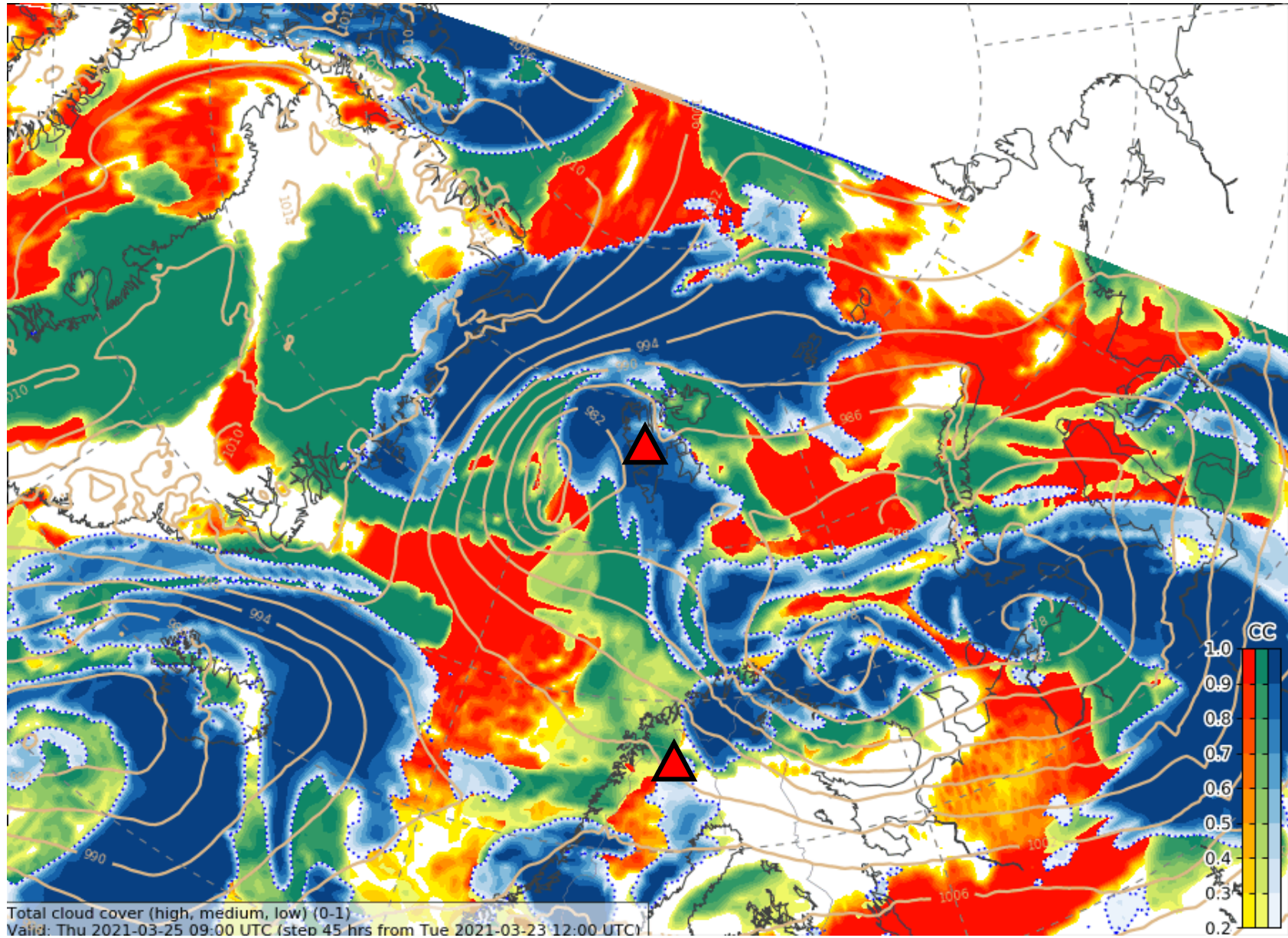
Geopotential Height (m) and Horizontal Wind (m/s) at 850 hPa
Valid: Thu 2021-03-25 12:00 UTC (steo 48 hrs from Tue 2021-03-23 12:00 UTC)

Mean sea level pressure and surface wind



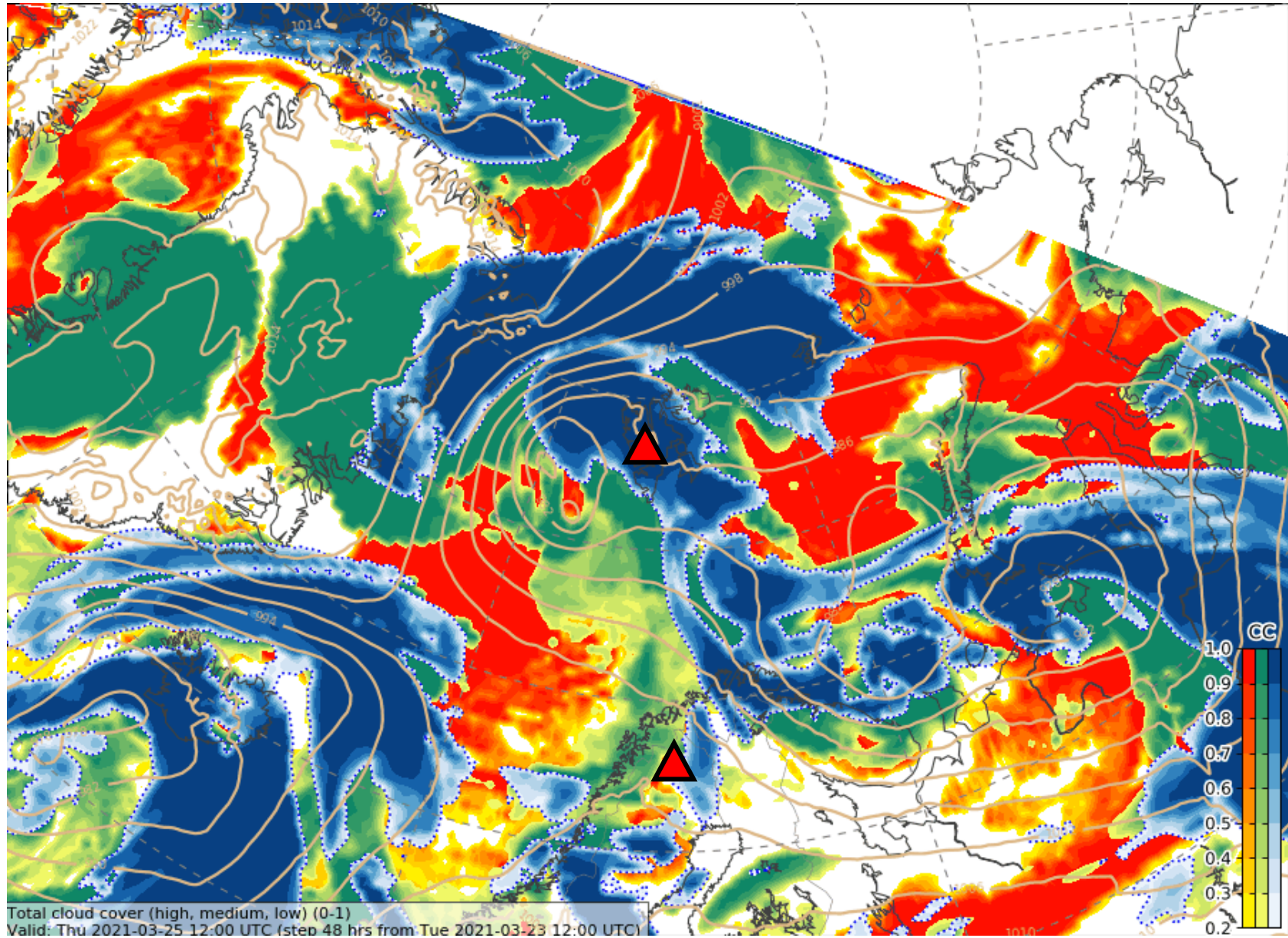
Mean sea level pressure (hPa) and surface wind
Valid: Thu 2021-03-25 12:00 UTC (steo 48 hrs from Tue 2021-03-23 12:00 UTC)

Total cloud cover (Thu, 25.03. 09 UTC, ECMWF)



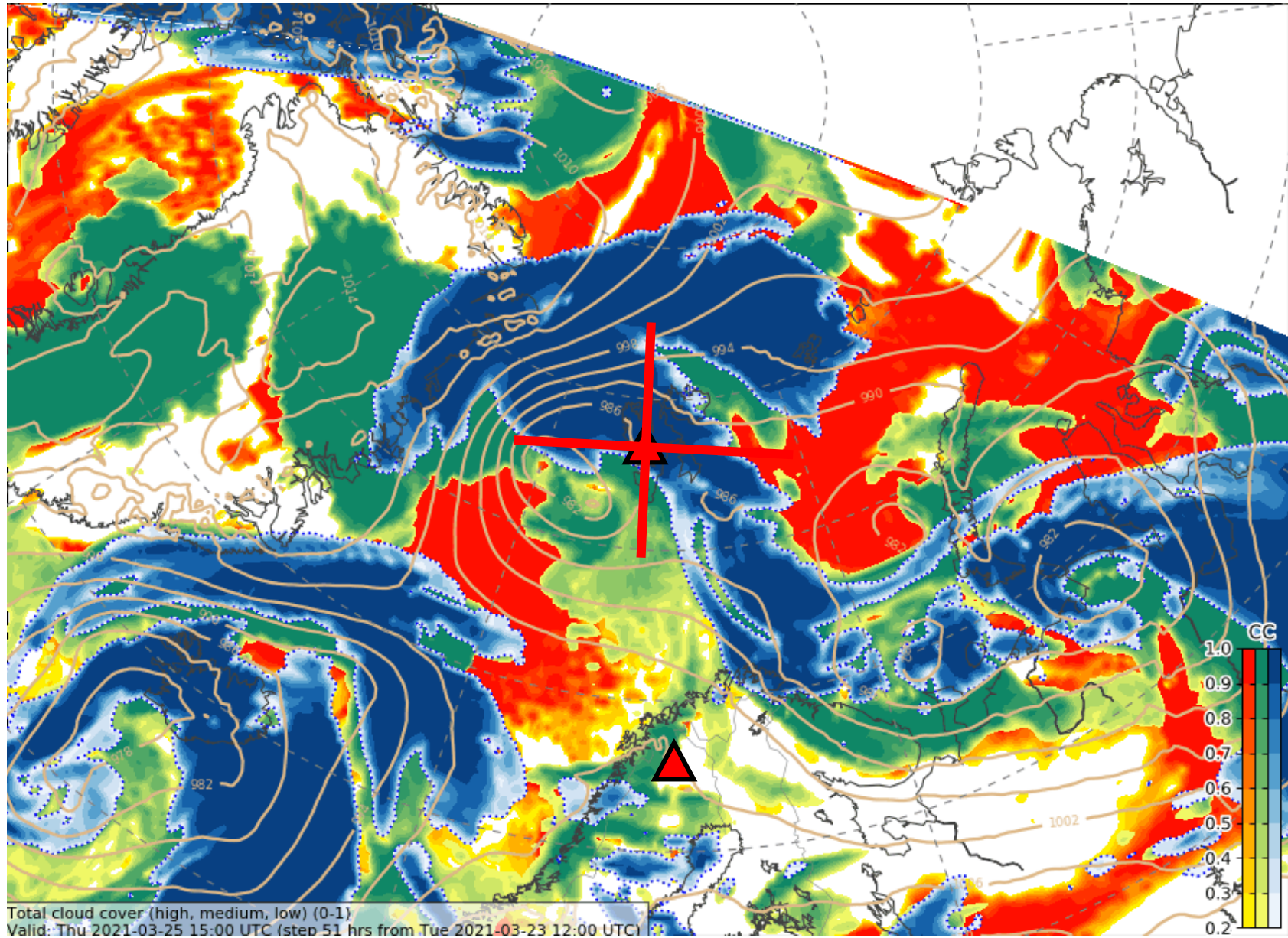
Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2021-03-25 09:00 UTC (step 45 hrs from Tue 2021-03-23 12:00 UTC)

Total cloud cover (Thu, 25.03. 12 UTC, ECMWF)

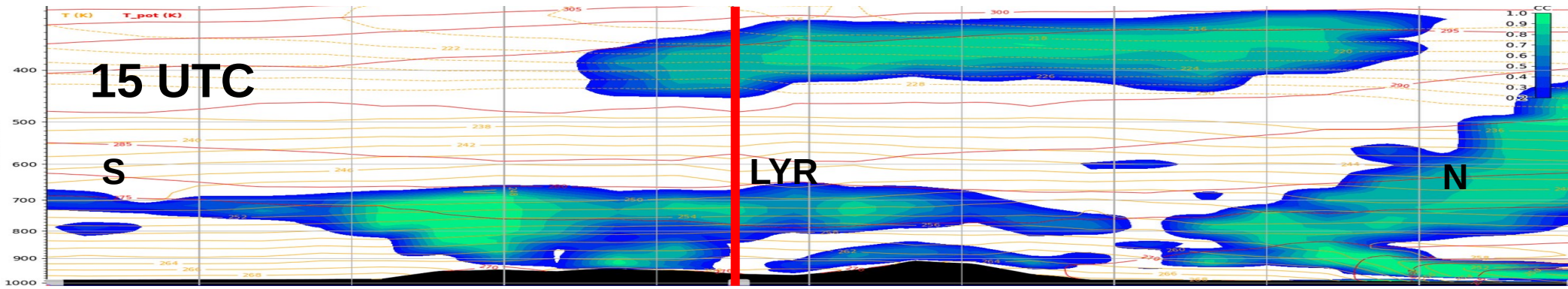
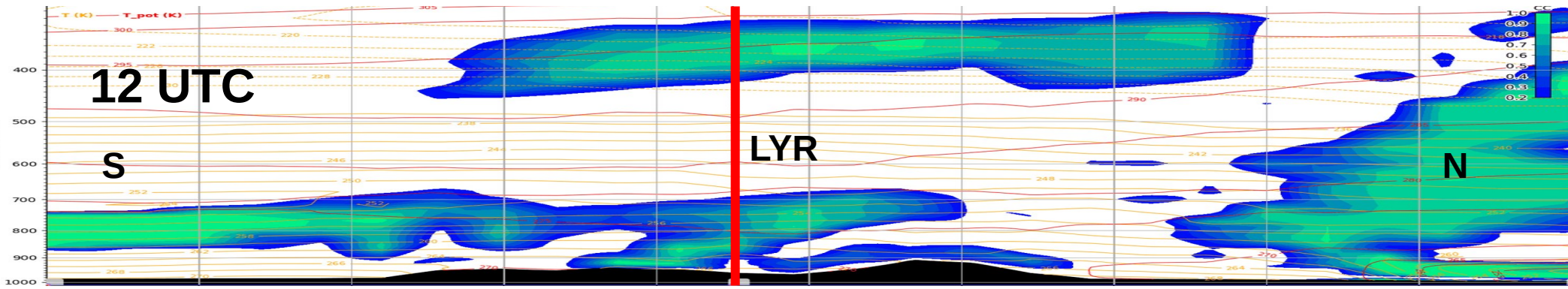
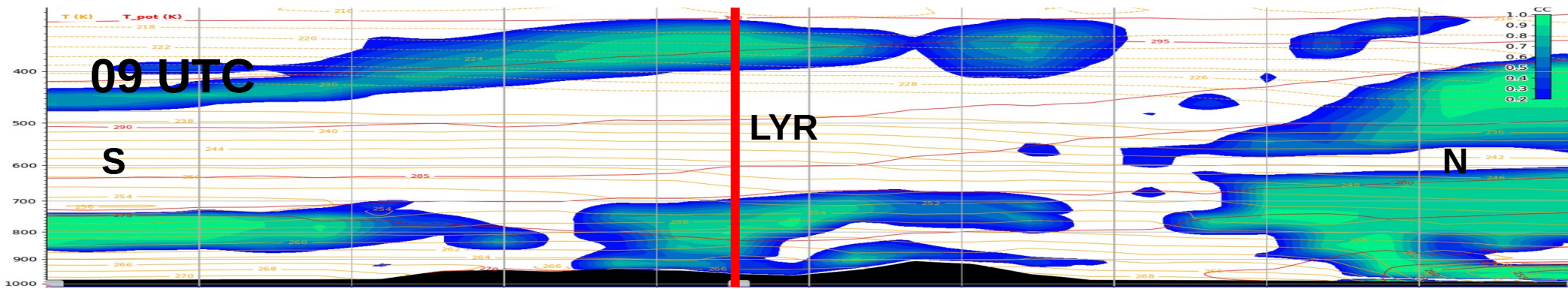


Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2021-03-25 12:00 UTC (step 48 hrs from Tue 2021-03-23 12:00 UTC)

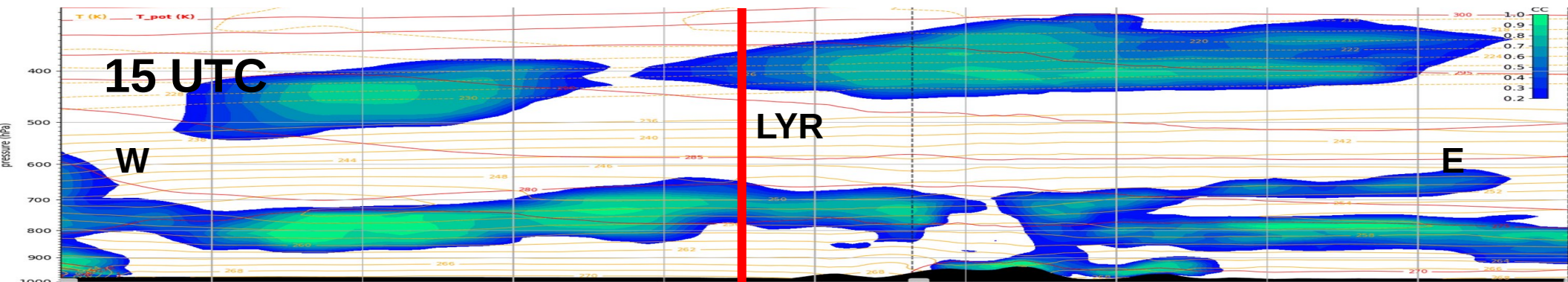
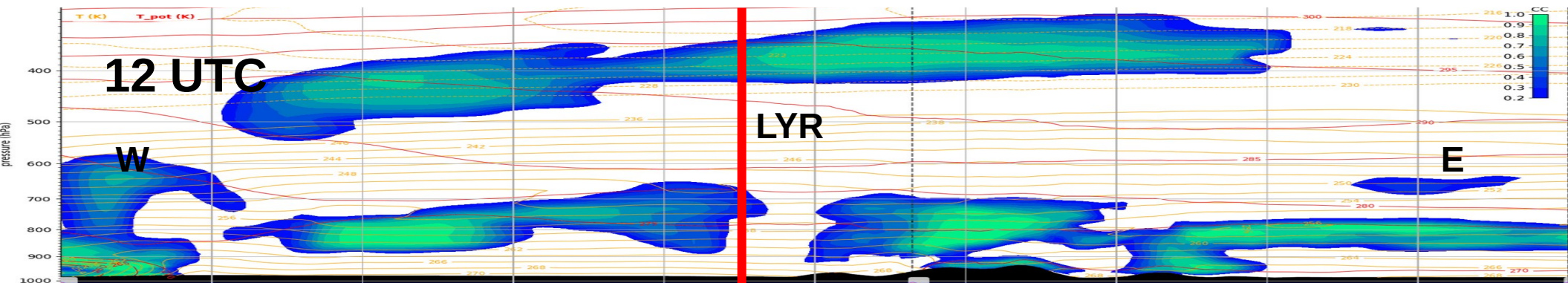
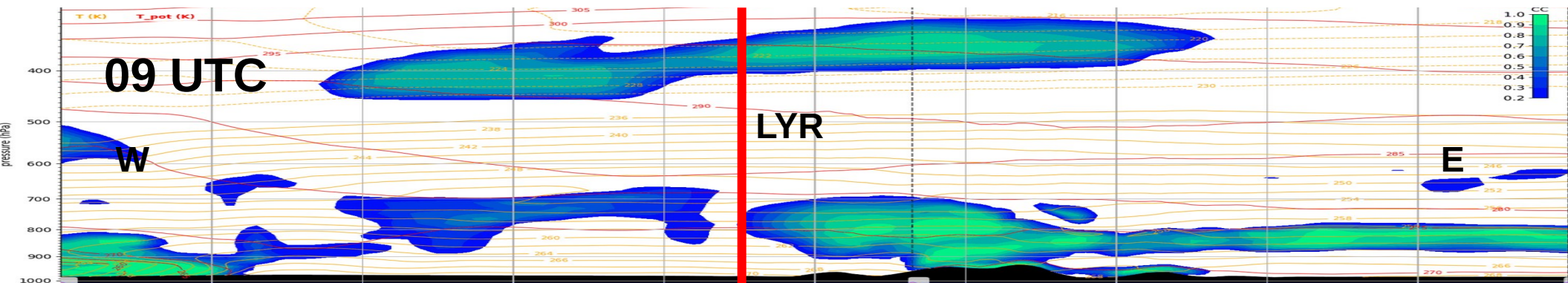
Total cloud cover (Thu, 25.03. 15 UTC, ECMWF)



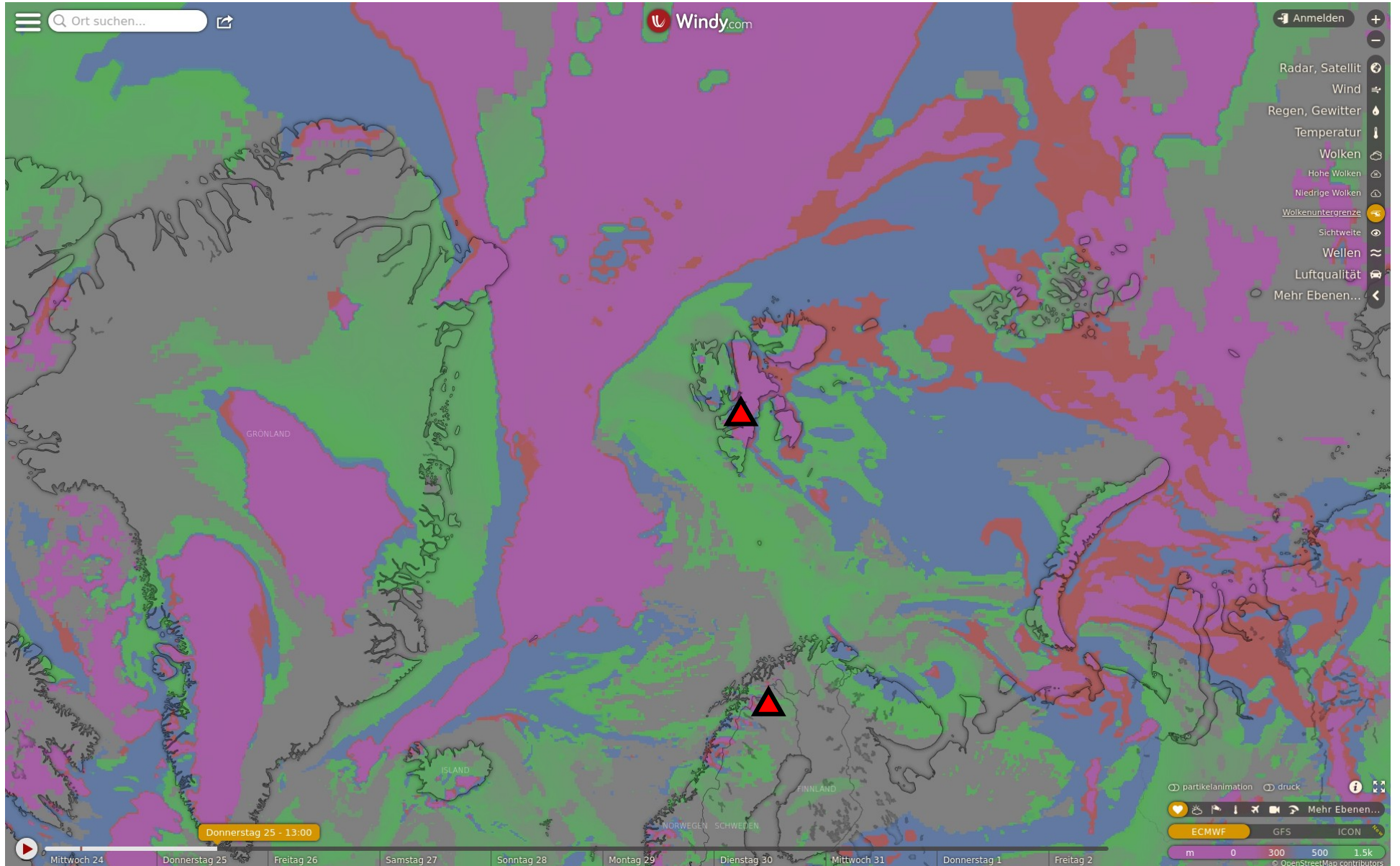
Cross-Section: South (75° N) → LYR → North (82° N) (Thu, 25.03, ECMWF)



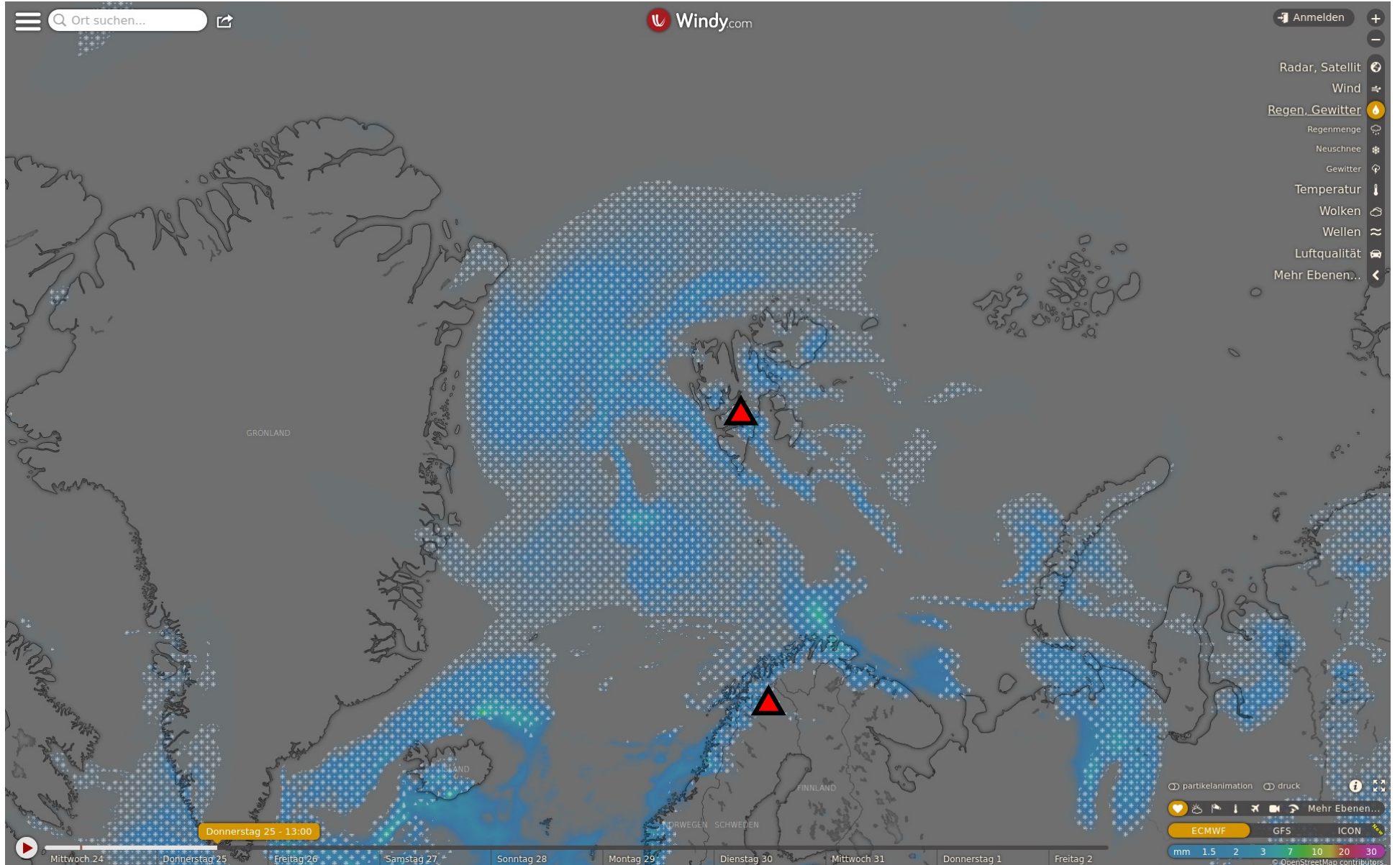
Cross-Section: West (4° W)→LYR→East (31° E) (Thu, 25.03, ECMWF)



Cloud base (Thu, 25.03. 12 UTC, ECMWF)



Surface precipitation (Thu, 25.03. 12 UTC, ECMWF)



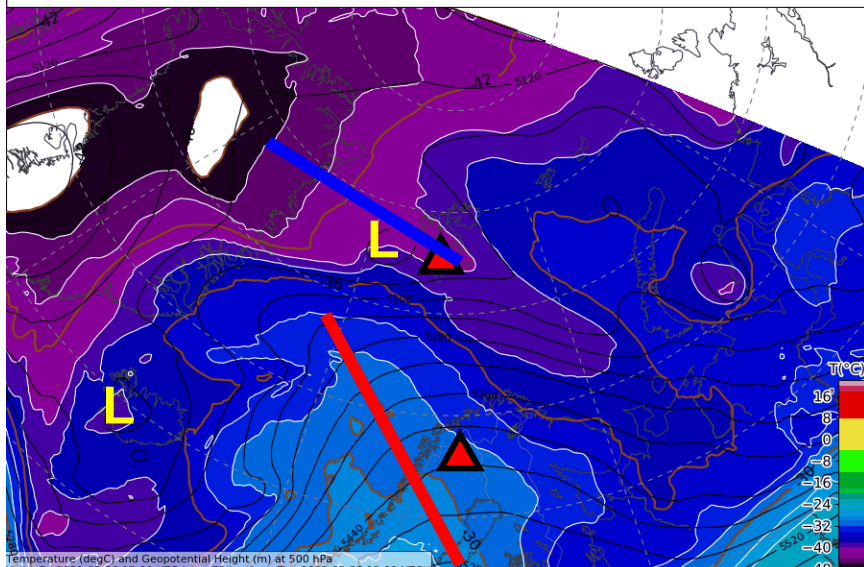
Summary: Thu, 25.03.2021

- Low pressure system west of Svalbard with south to southeasterly flow
- Associated occlusion will slowly move over the archipelago during the day, causing mostly high/mid level clouds and some light precipitation over Svalbard

Friday, 25 March 2021

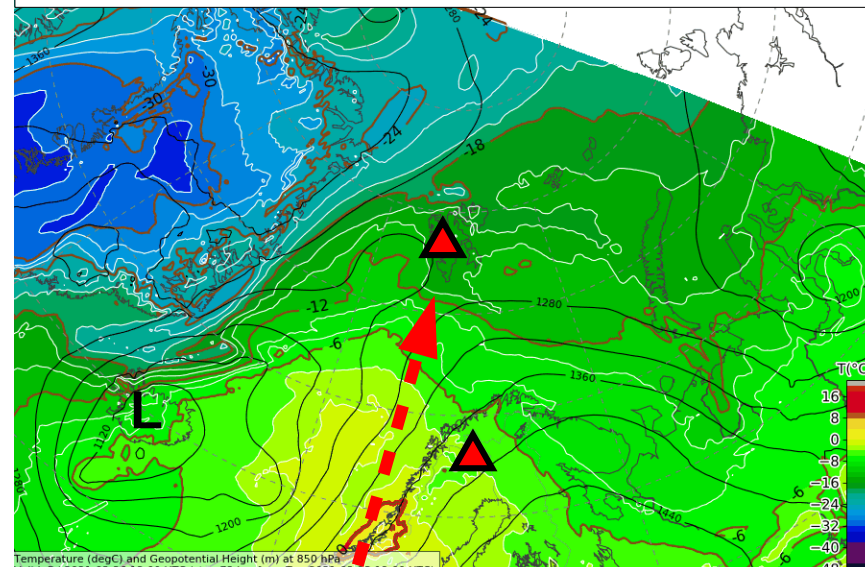
General weather situation (Fri, 26.03 12 UTC, ECMWF)

500 hPa: Temperature & Geopotential



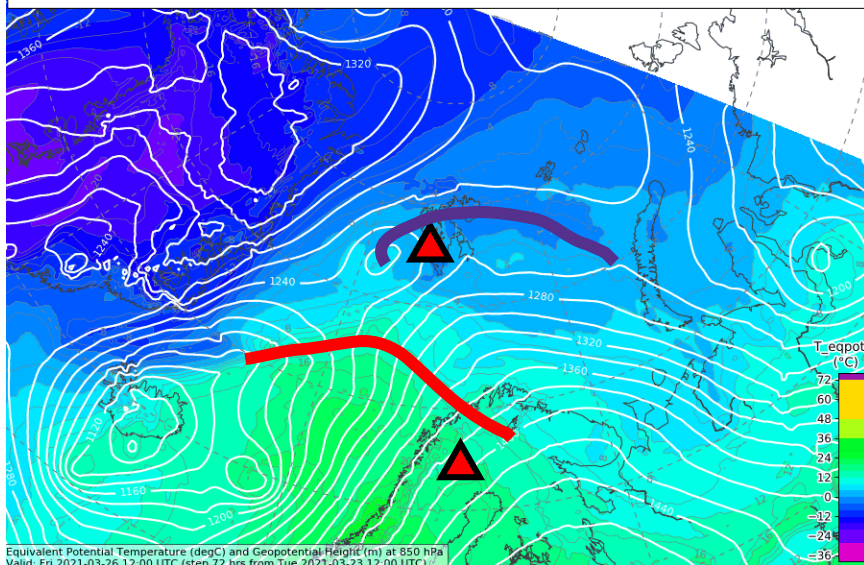
Temperature (degC) and Geopotential Height (m) at 500 hPa
Valid: Fri 2021-03-26 12:00 UTC (steep 72 hrs from Tue 2021-03-23 12:00 UTC)

850 hPa: Temperature & Geopotential



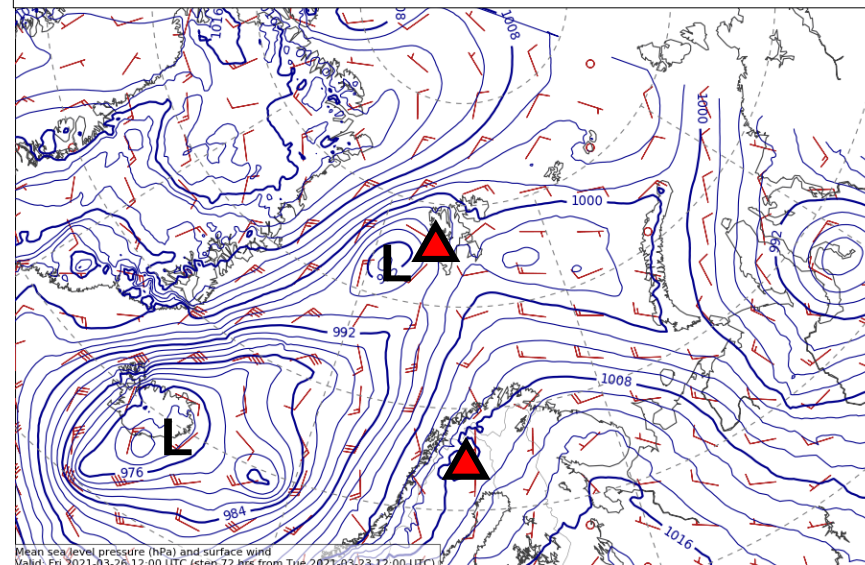
Temperature (degC) and Geopotential Height (m) at 850 hPa
Valid: Fri 2021-03-26 12:00 UTC (steep 72 hrs from Tue 2021-03-23 12:00 UTC)

850 hPa: Equi. Pot. Temperature & Geopotential



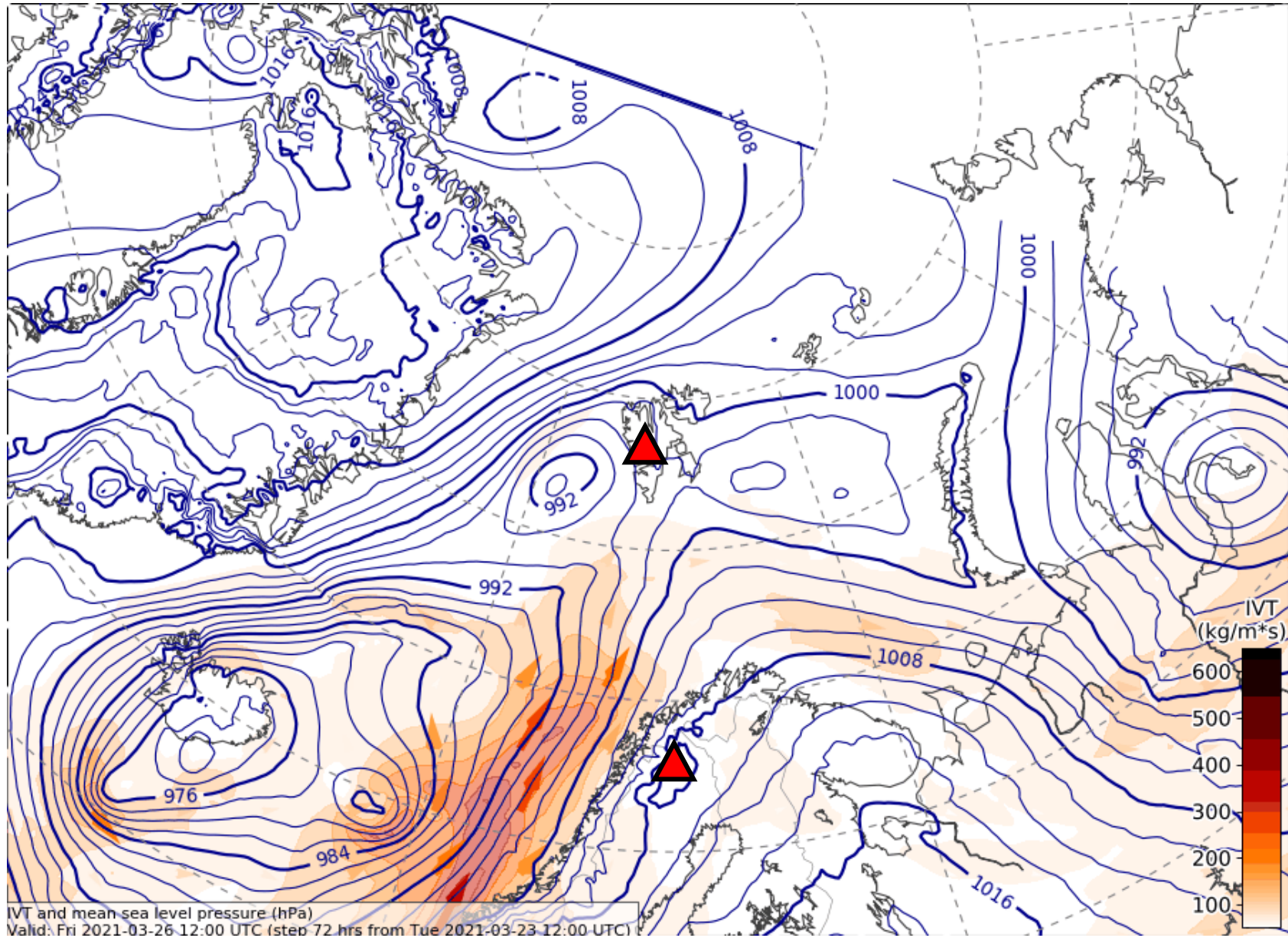
Equivalent Potential Temperature (degC) and Geopotential Height (m) at 850 hPa
Valid: Fri 2021-03-26 12:00 UTC (steep 72 hrs from Tue 2021-03-23 12:00 UTC)

Mean sea level pressure and surface wind



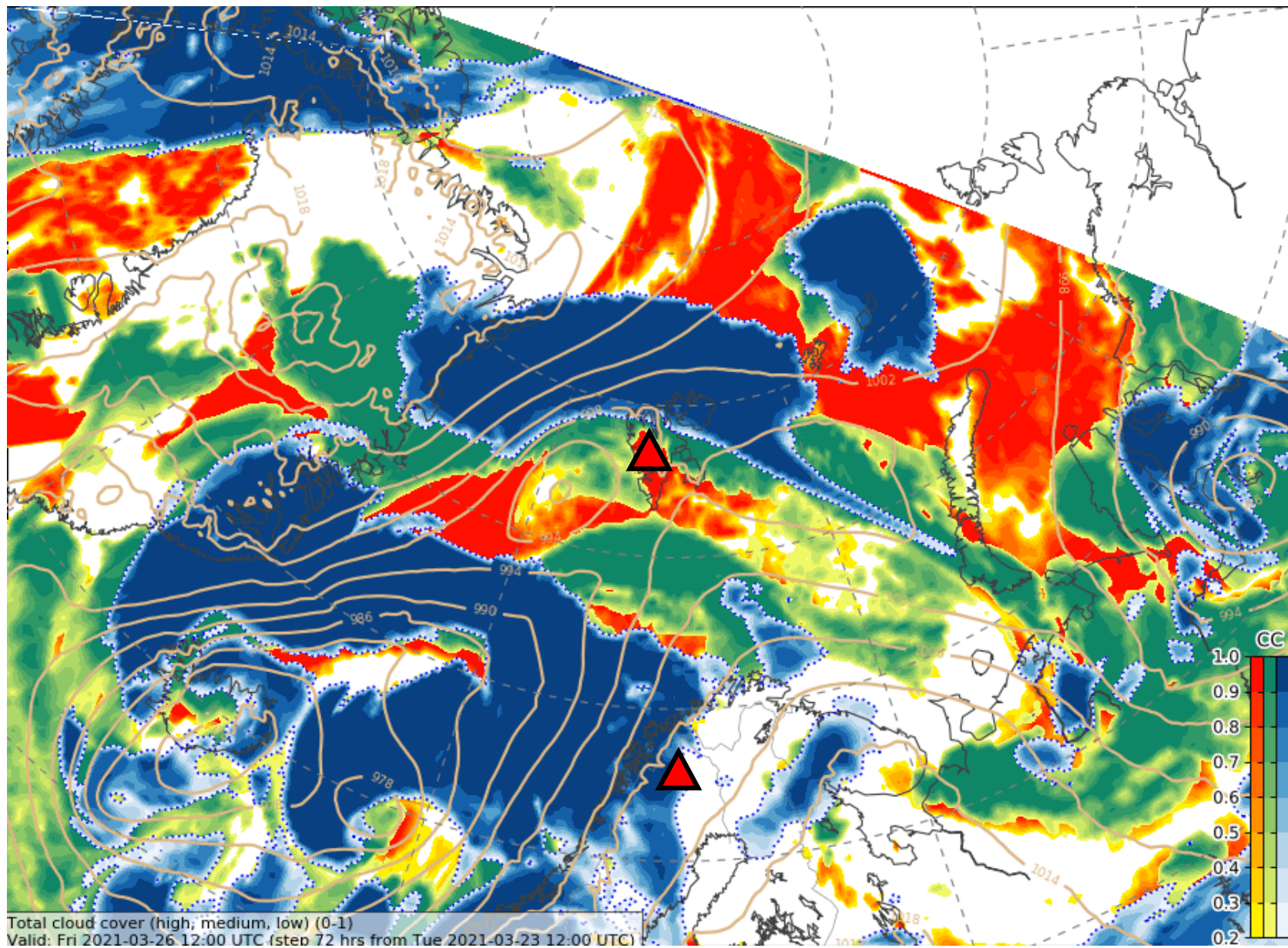
Mean sea level pressure (hPa) and surface wind
Valid: Fri 2021-03-26 12:00 UTC (steep 72 hrs from Tue 2021-03-23 12:00 UTC)

Integrated water vapor transport (Fri, 26.03. 12 UTC, ECMWF)



IVT and mean sea level pressure (hPa)
Valid: Fri 2021-03-26 12:00 UTC (step 72 hrs from Tue 2021-03-23 12:00 UTC)

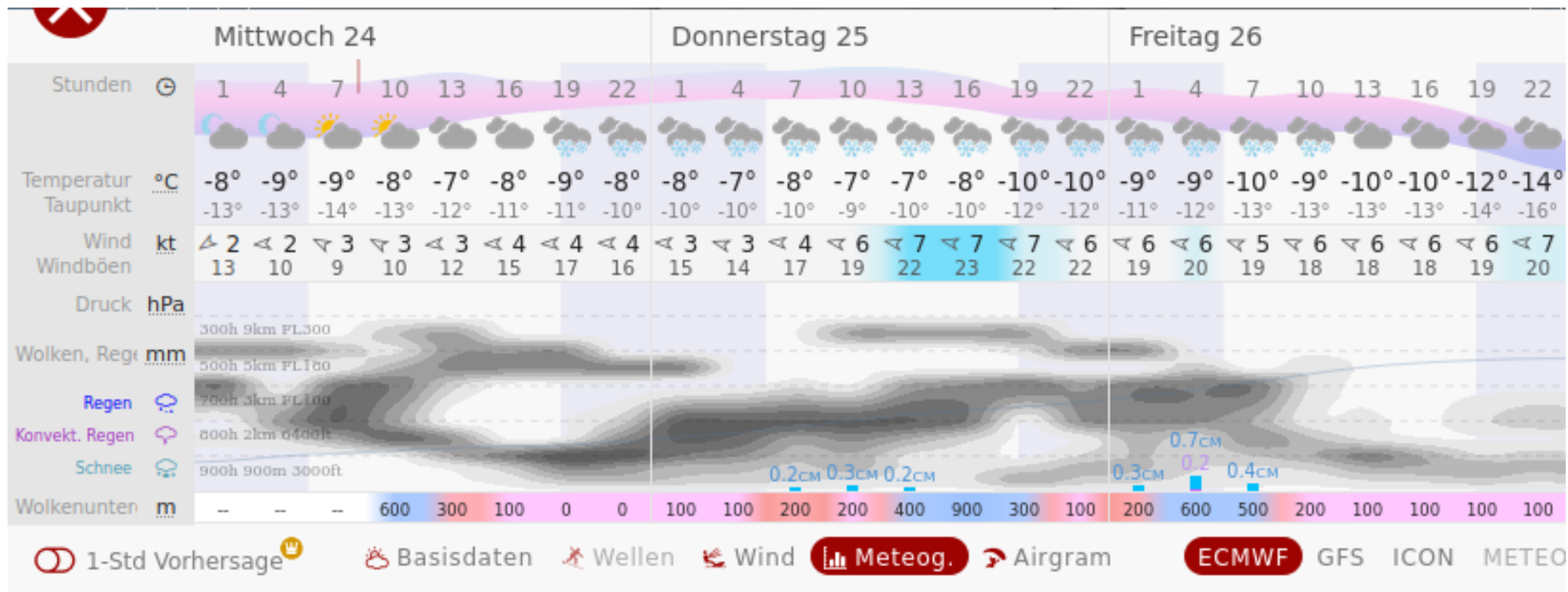
Total cloud cover (Fir, 26.03. 12 UTC, ECMWF)



Summary: Fri, 26.03.2021

- Low pressure system west of Svalbard that is slowly decaying
- Yesterdays occlusion becomes stationary north of Svalbard
- Stabilizing influence of a ridge pushing in from the south
- Warm air advection caused by cyclone close to Iceland

Meteogram Longyearbyen (Wed 24.03. - Fri 26.03)



Meteogram Kiruna (Wed 24.03. - Fri 26.03)

