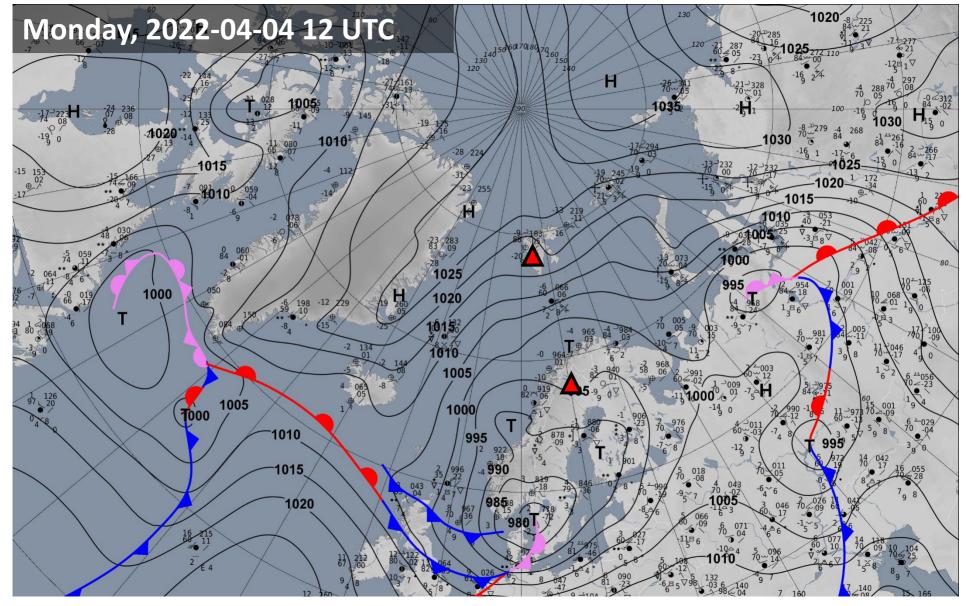
Weather briefing HALO-(AC)³

Monday, 2022-04-04, 17:00 LT

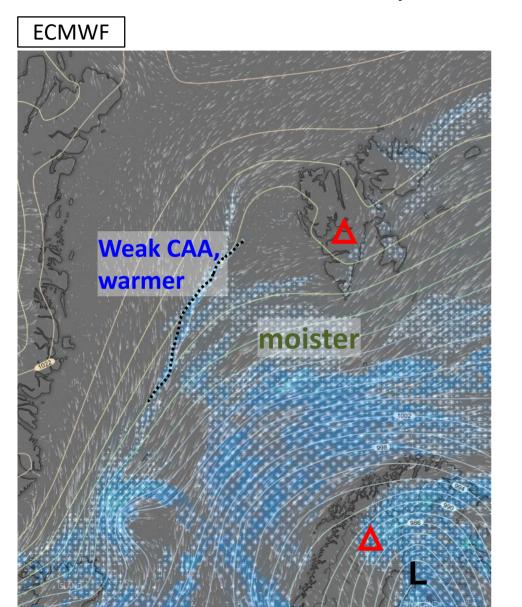
Surface Analysis
Monday, 2022-04-04 12 UTC
DWD



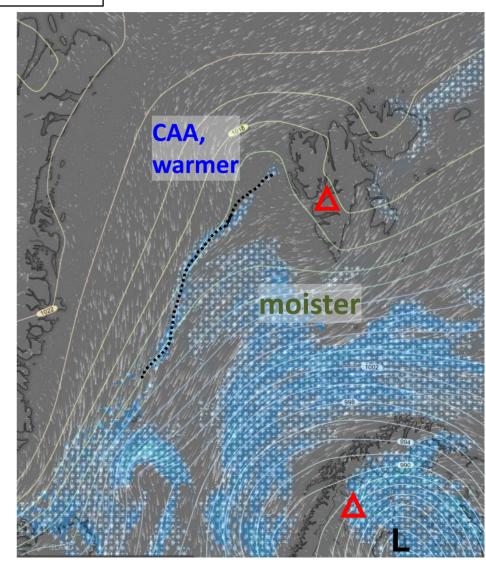
Surface wind development and precipitation

2022-04-04 00 UTC: 36 – 108h ECMWF & ICON

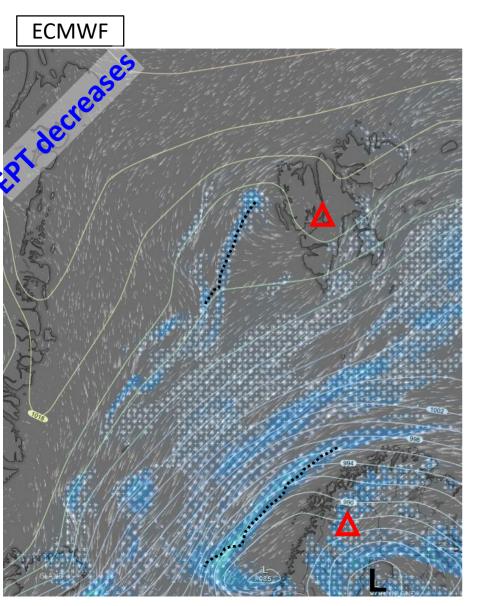
Tuesday, 2022-04-05 12 UTC (+36h)

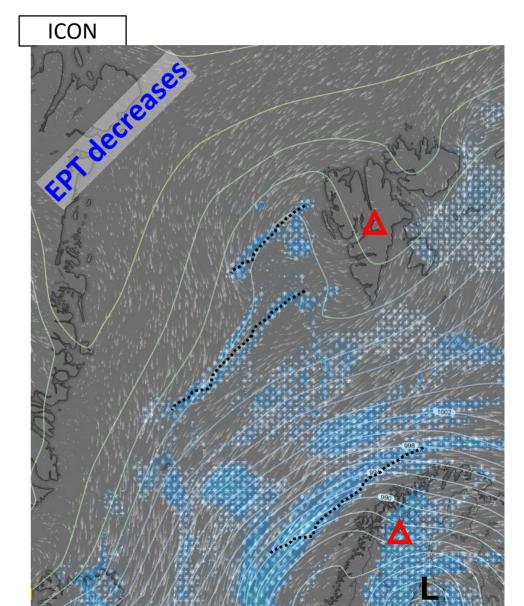


ICON

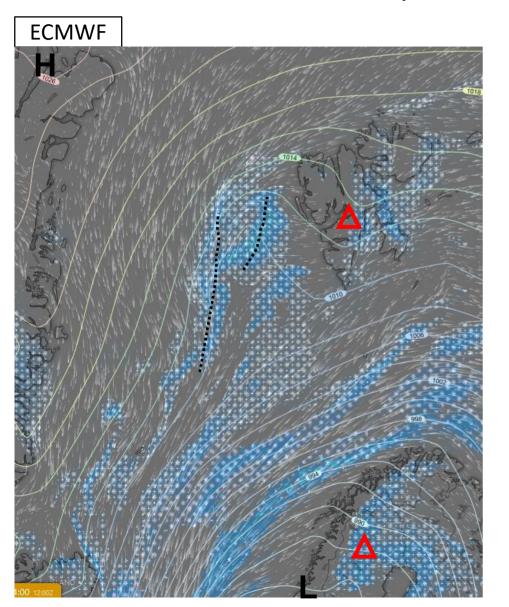


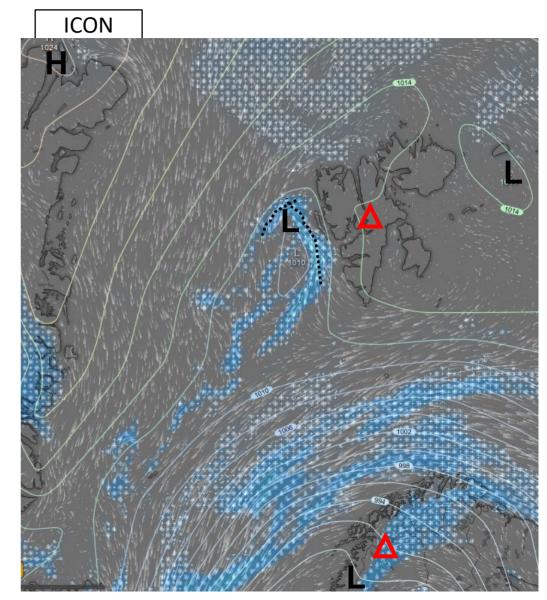
Wednesday, 2022-04-06 12 UTC (+60h)



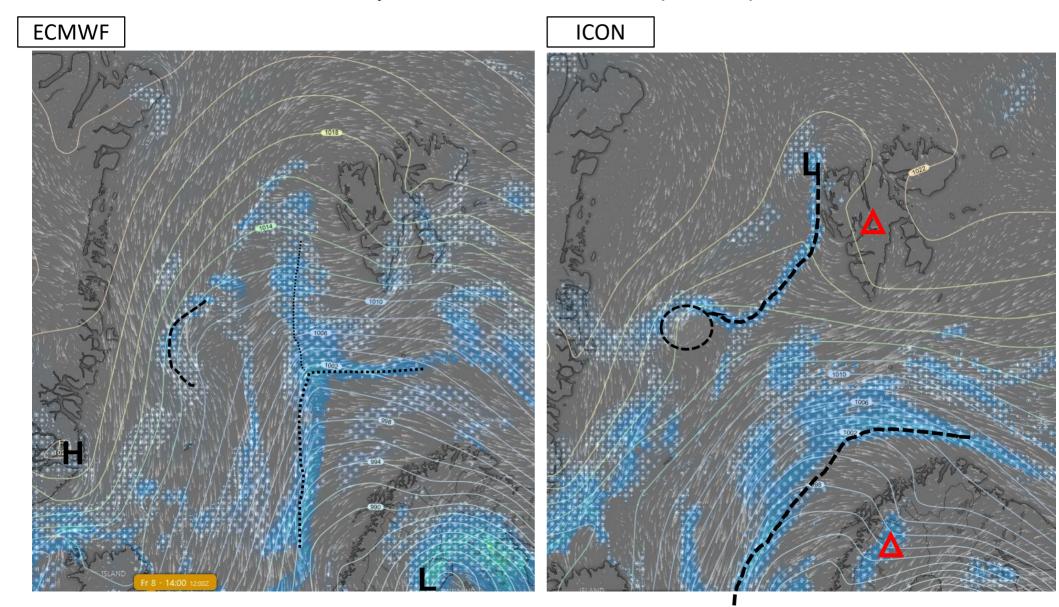


Thursday, 2022-04-07 12 UTC (+84h)





Friday, 2022-04-08 12 UTC (+108h)



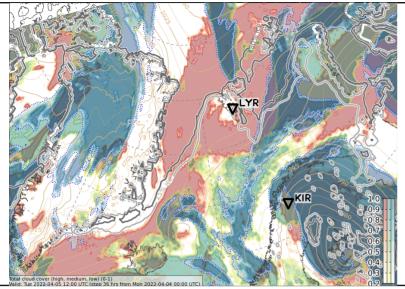
Cloud cover, CAO index, Airmasses, IVT

2022-03-17 00 UTC: 36 - 108h

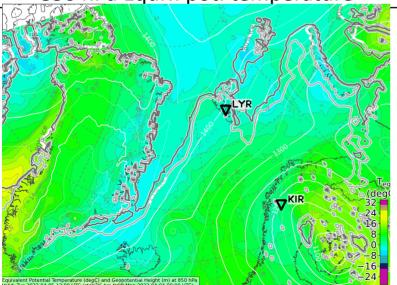
Cloud cover & 850hPa θ_e & CAO & IVT

Tue, 2022-04-05 12 UTC (+36h)

Total cloud cover

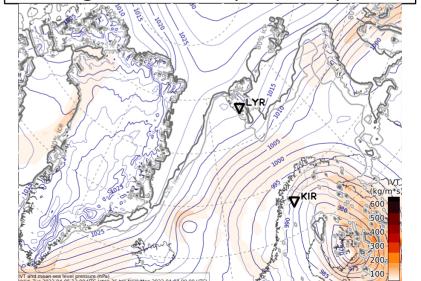


850 hPa Equiv. pot. temperature



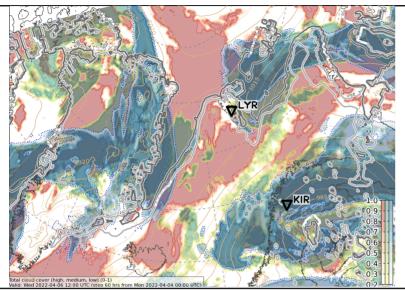
CAO Index

Integrated water vapour transport

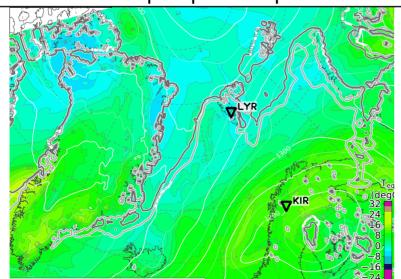


Wed, 2022-04-06 12 UTC (+60h)

Total cloud cover

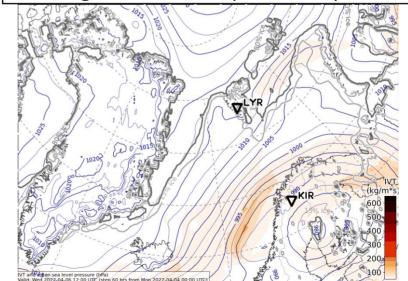


850 hPa Equiv. pot. temperature



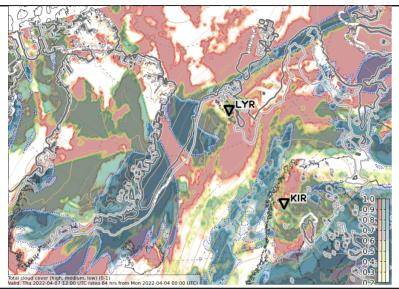
CAO Index

Integrated water vapour transport

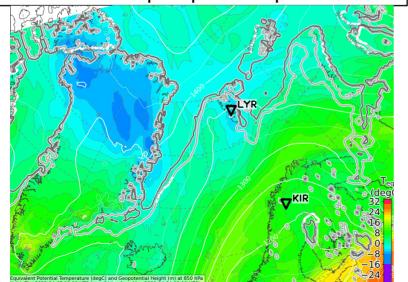


Thu, 2022-04-07 12 UTC (+84h)

Total cloud cover

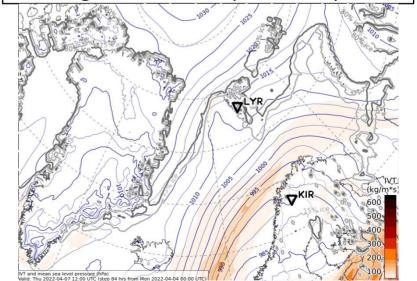


850 hPa Equiv. pot. temperature



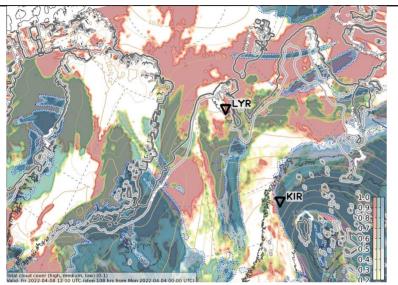
CAO Index

Integrated water vapour transport

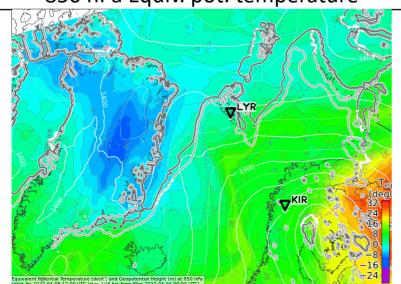


Fri, 2022-04-08 12 UTC (+108h)

Total cloud cover

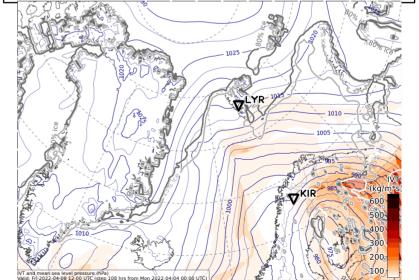


850 hPa Equiv. pot. temperature



CAO Index





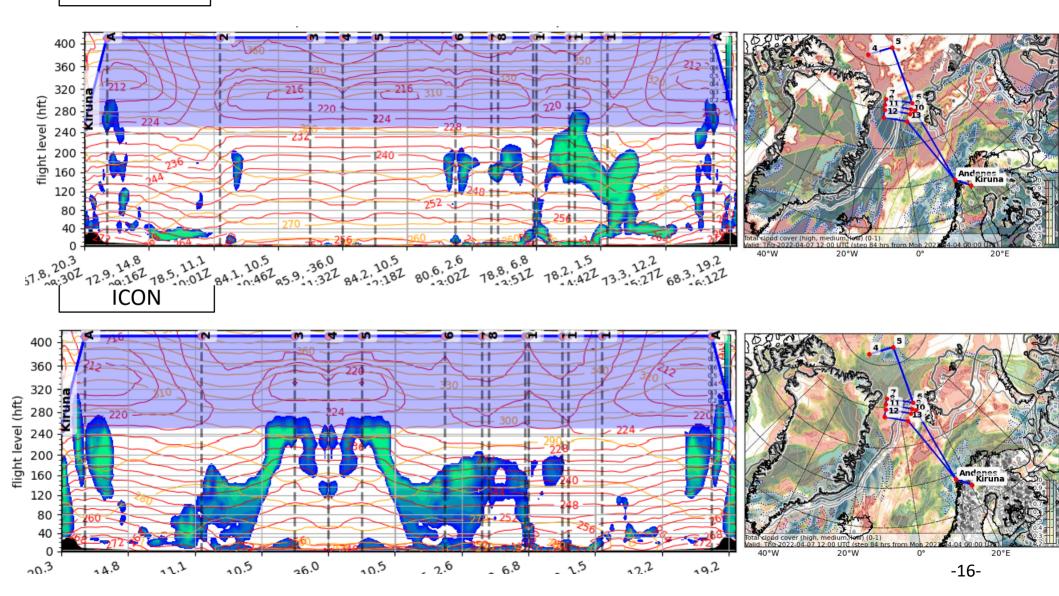
Cloud cross-sections: Fram Strait

2022-04-07 12 UTC: Thursday

ECMWF & ICON

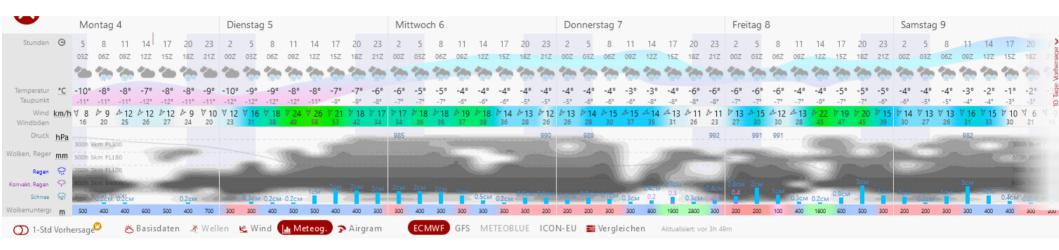
Thu, 2022-04-07, Clouds, 12 UTC





Airport meteograms & local weather at Svalbard

Kiruna:

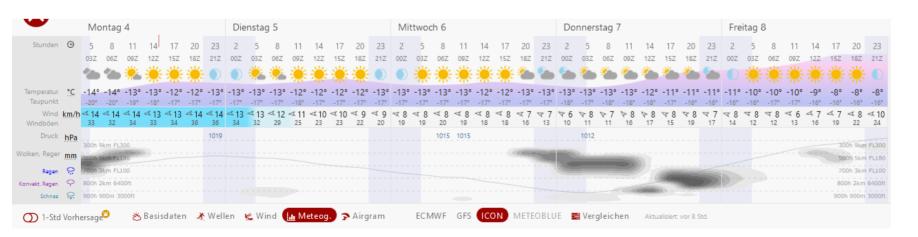


Longyearbyen:

ECWMF

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Summary

Summary: Weather Briefing 2022-04-04, 17:00 LT

Tuesday, 2022-04-05:

- Convergence line west of Svalbard remains along sea ice edge
- Temperature in Fram Strait increases, moist air with precip. between Norway and Svalbard
- significant snowfall expected for Kiruna (peak from Tuesday evening to Wednesday)

• Wednesday, 2022-04-06:

- high pressure along Greenland east coast: cooling & drying
- easterly flow of moister airmasses drift to southwest
- characteristics of low pressure over Scandinavia quite consistent
- Weak T gradients in Fram Strait

• Thursday, 2022-04-07:

- Northeastern Greenland become very dry and cold compared to previous days
- Chance for cyclogenesis (but uncertain) in cold airmass at 500 hPa west of Svalbard
- weaker cooling over Svalbard at 850 hPa

• Friday, 2022-04-08:

- Eastern Fram Strait warmer than Western
- Precipitation west of Svalbard along frontal system, chance of dissolving polar low

• Saturday, 2022-04-08:

 Intensification of easterly flow with moisture and precipitation between Scandinavia and Svalbard, airmass origin south of Balkan

-21-