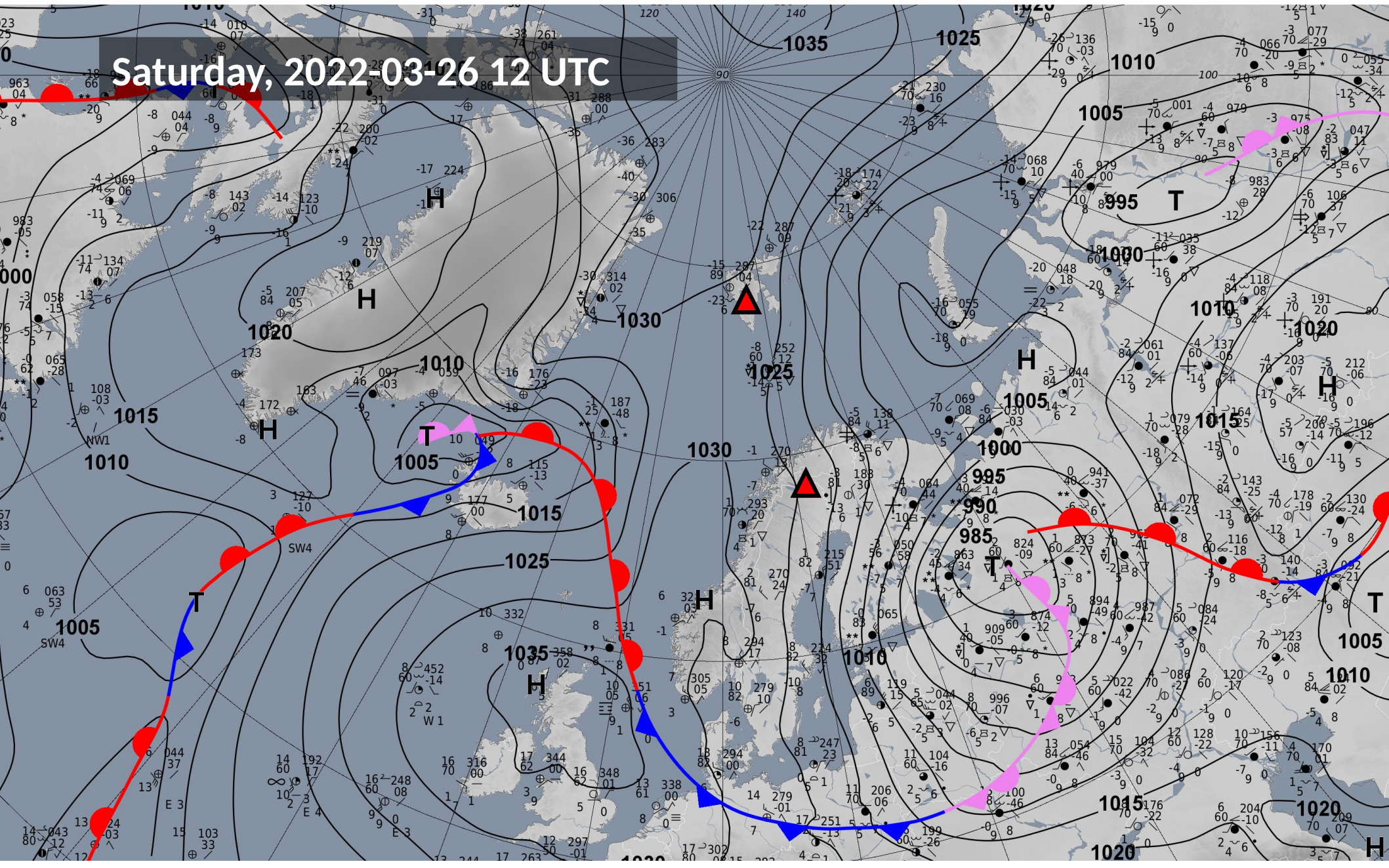


# Weather briefing HALO-(AC)<sup>3</sup>

Saturday, 2022-03-26, 17:00 LT

**Surface Analysis**  
Saturday, 2022-03-26 12 UTC  
DWD

Saturday, 2022-03-26 12 UTC

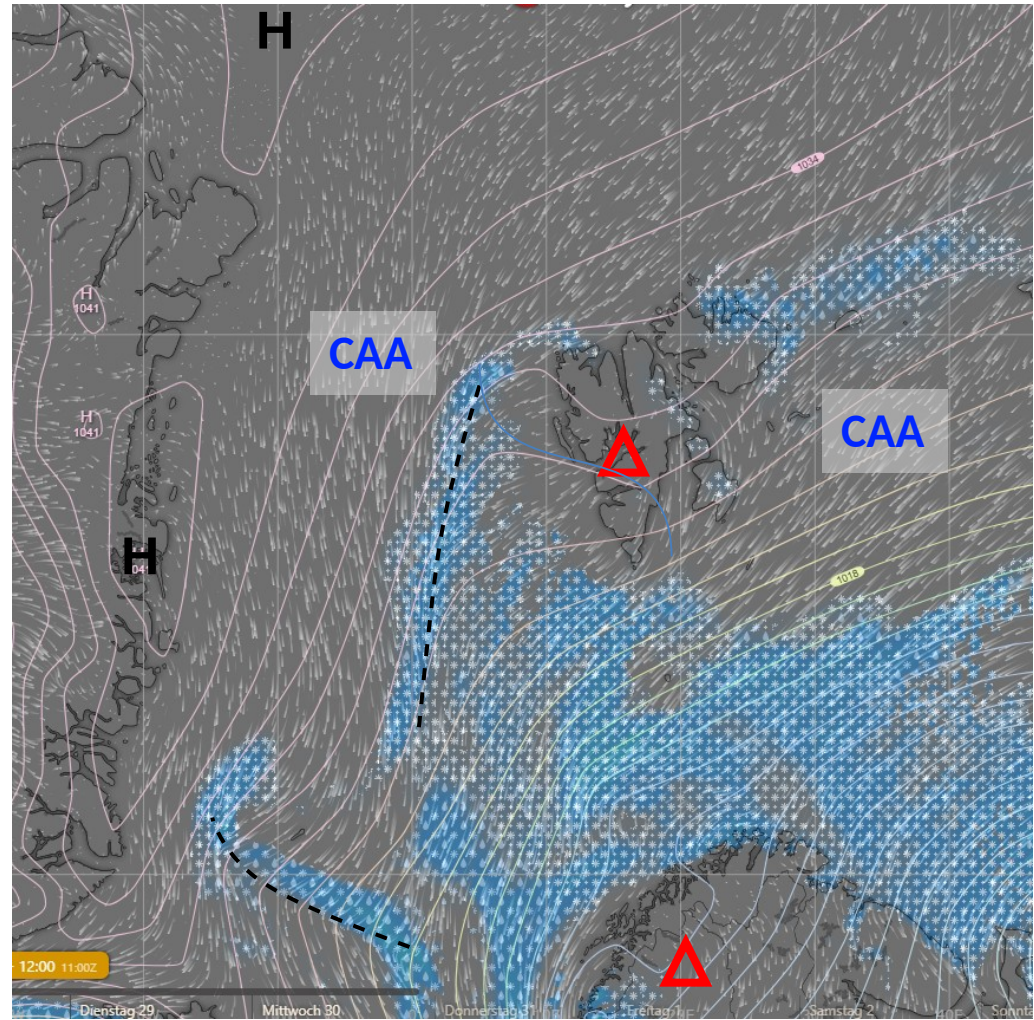
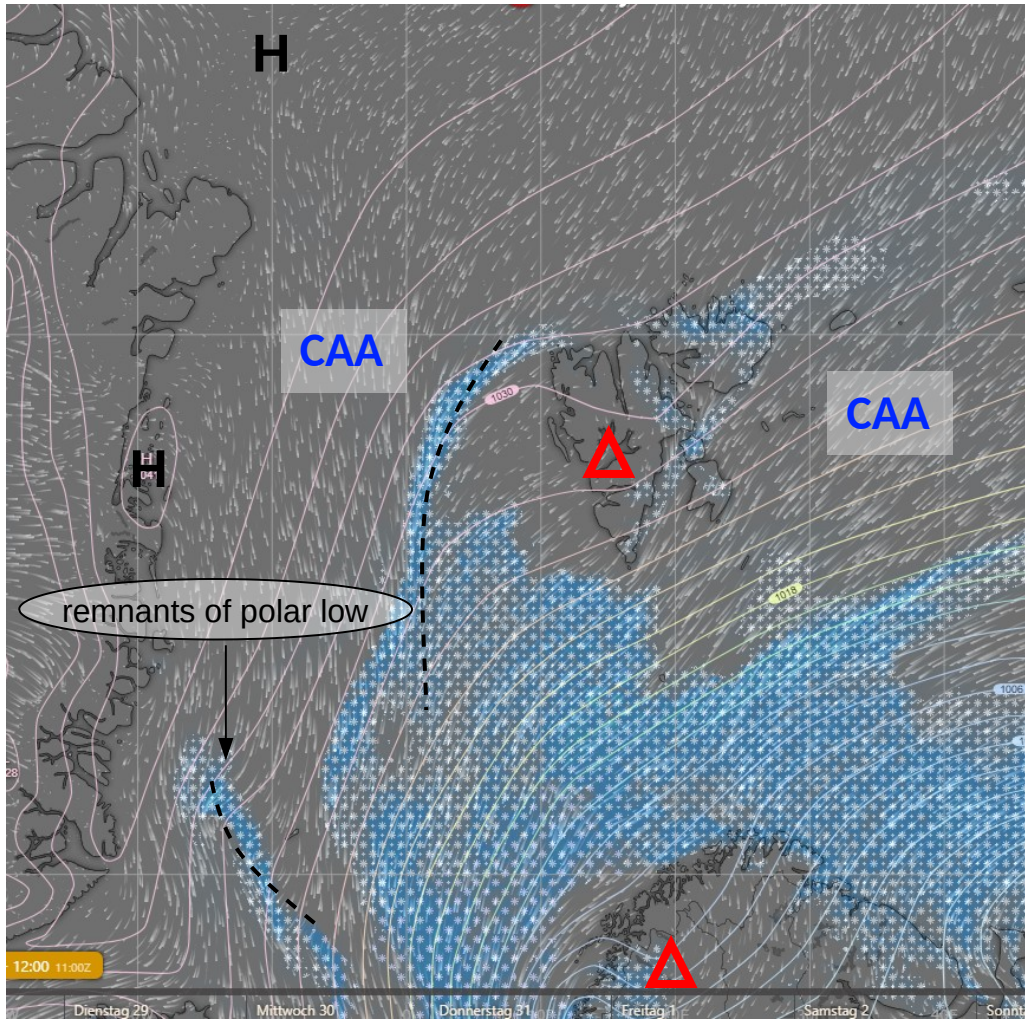




Monday, 2022-03-28 12 UTC (+60h)

ECMWF

ICON

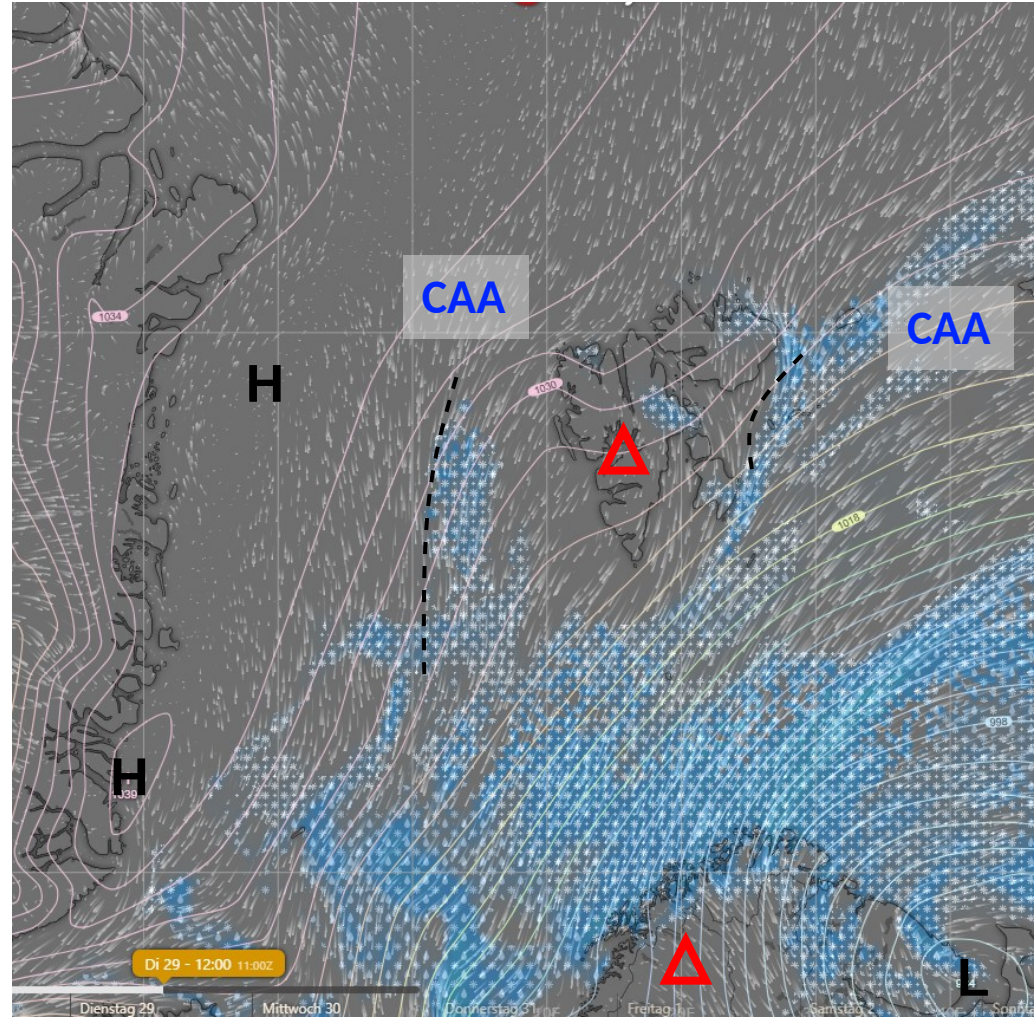
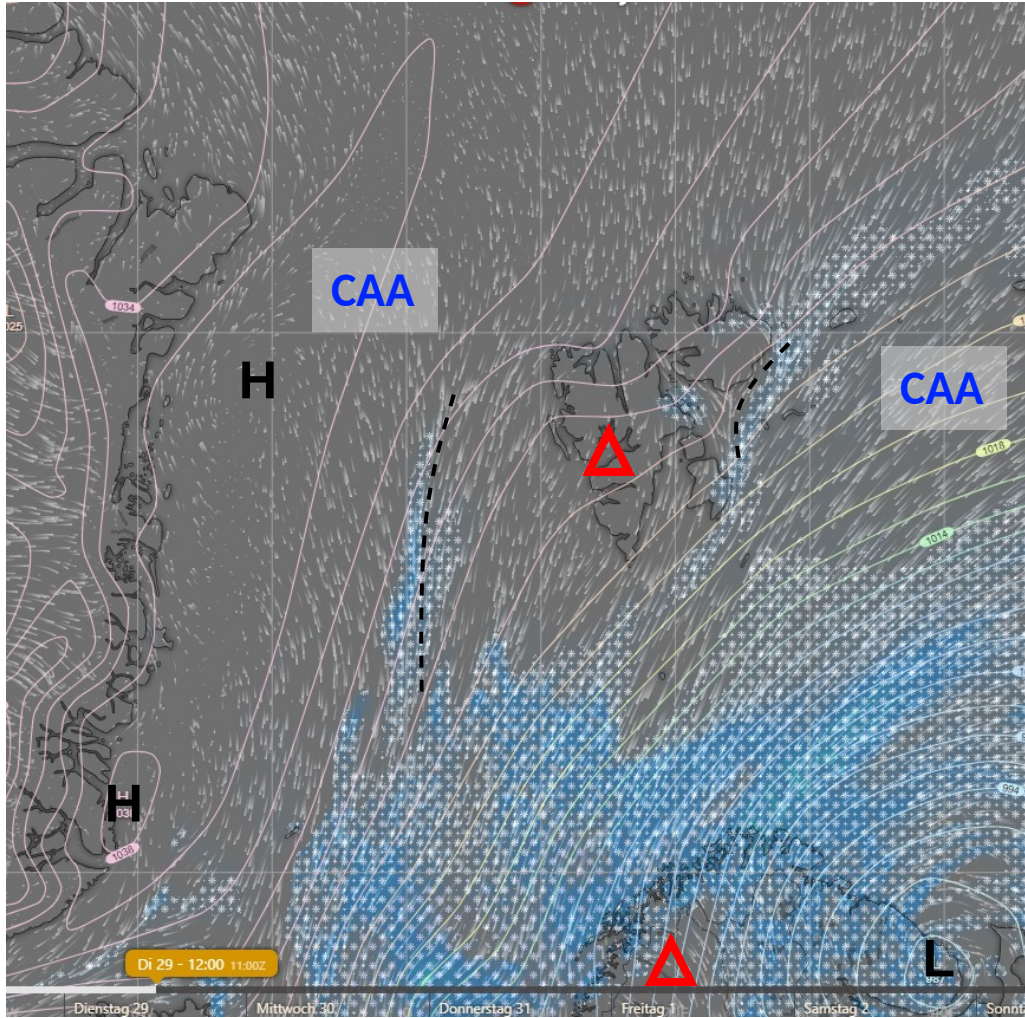




Tuesday, 2022-03-29 09 UTC (+84h)

ECMWF

ICON

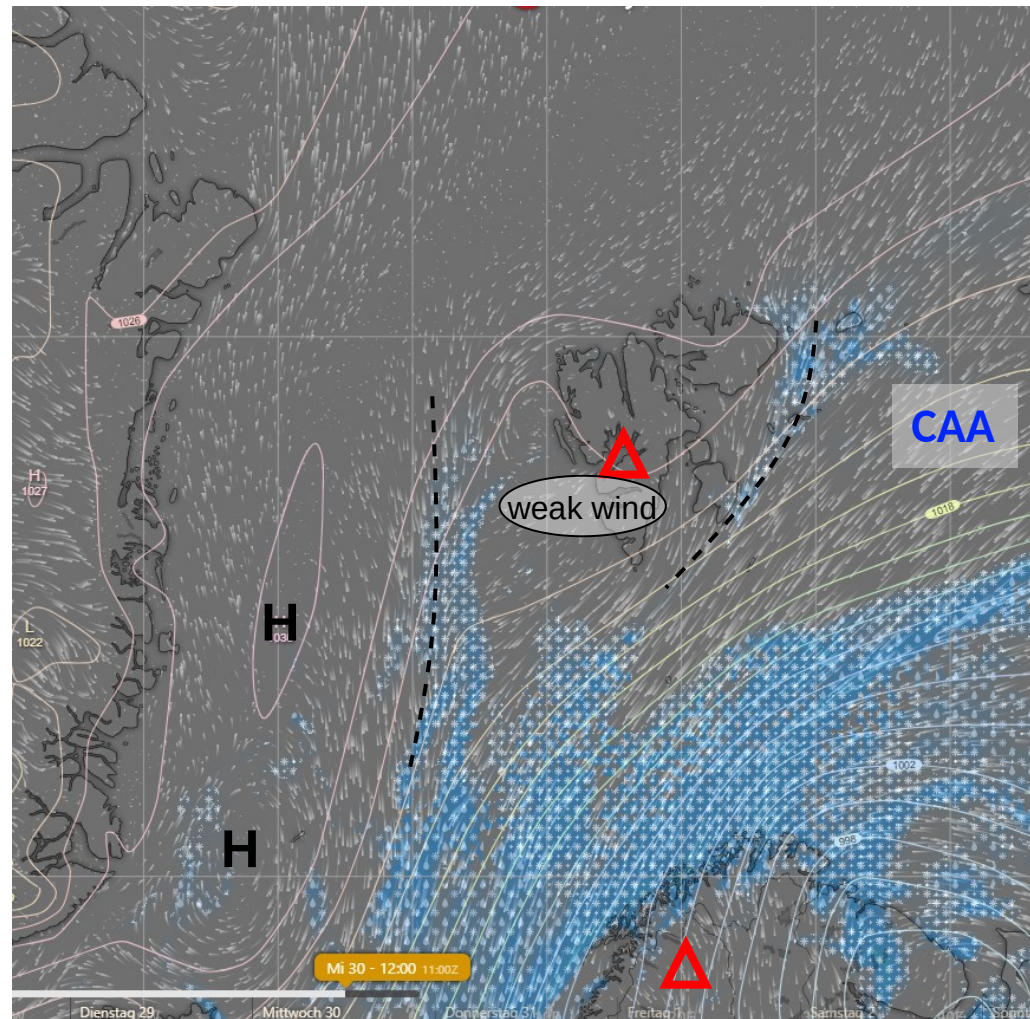
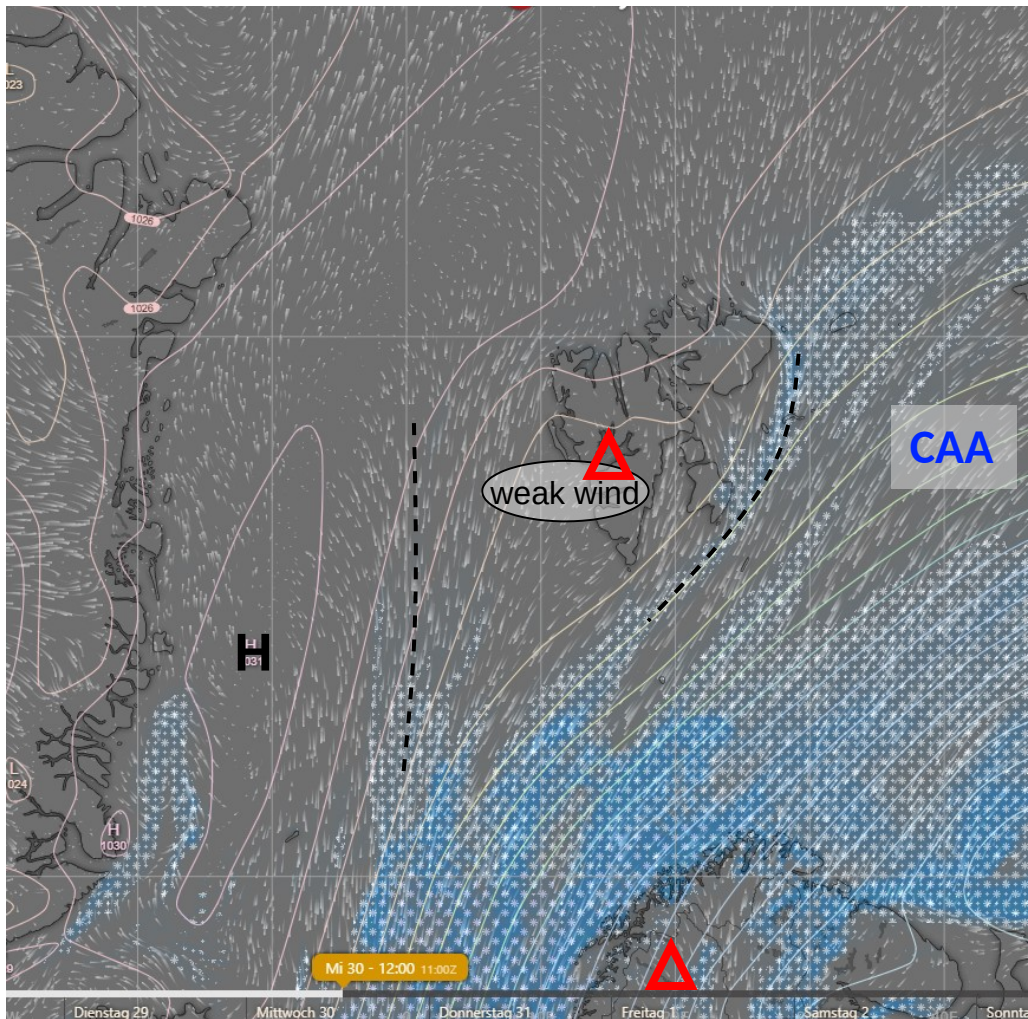




Wednesday, 2022-03-30 12 UTC (+108h)

ECMWF

ICON





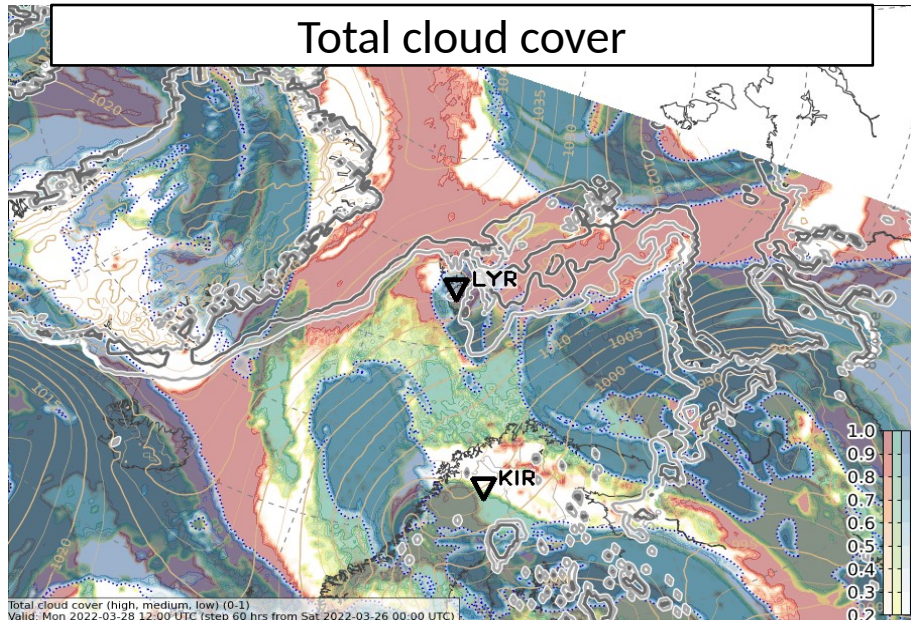
# **Cloud cover, CAO index, Airmasses, IVT**

2022-03-26 00 UTC: 60 – 108h

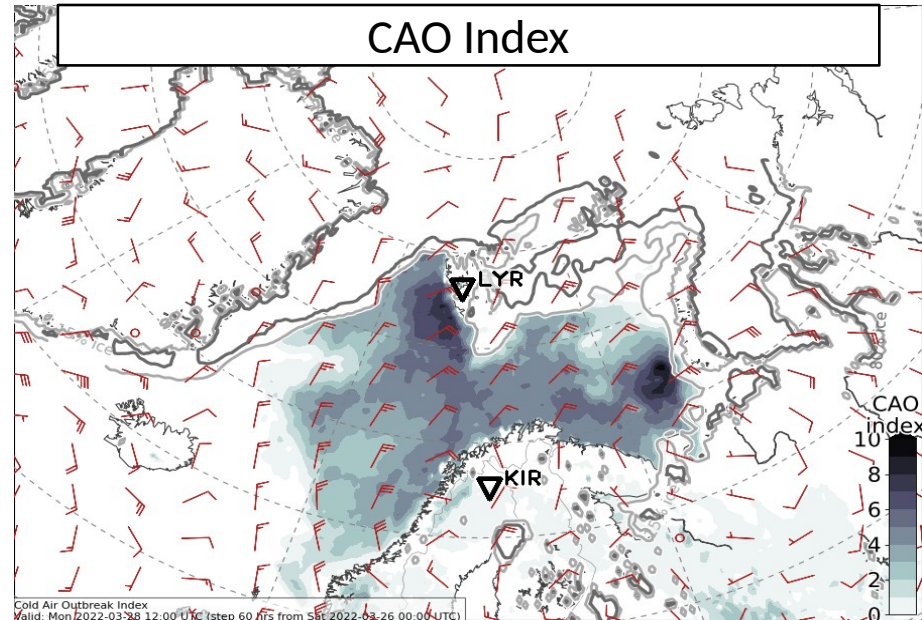
Cloud cover & 850hPa  $\theta_e$  & CAO & IVT

Mon, 2022-03-28 12 UTC (+60h)

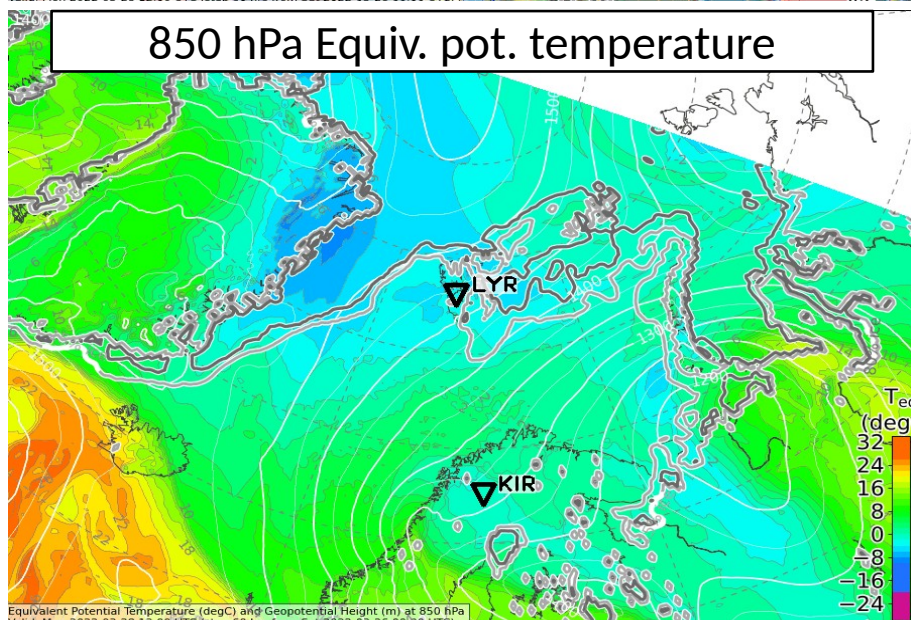
Total cloud cover



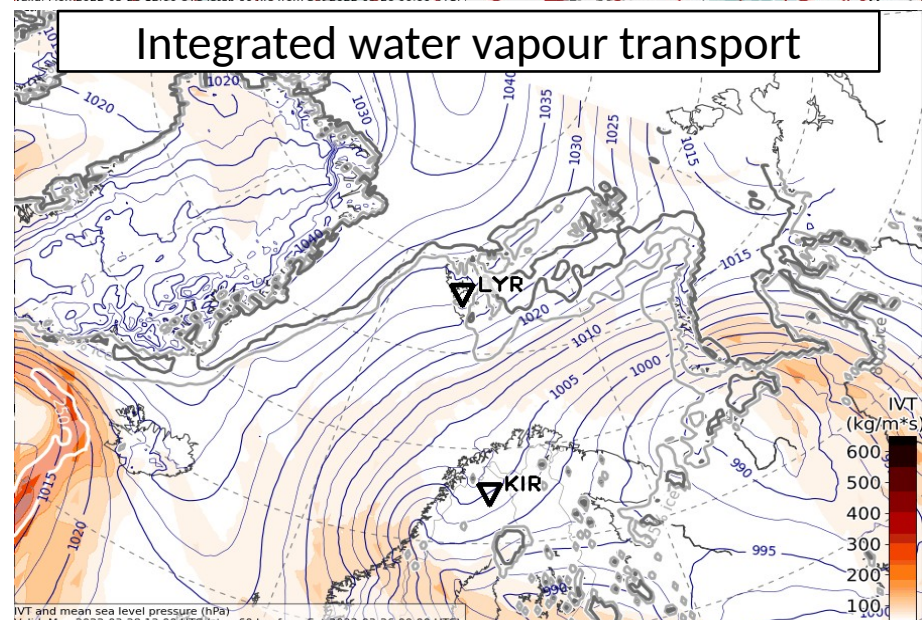
CAO Index



850 hPa Equiv. pot. temperature

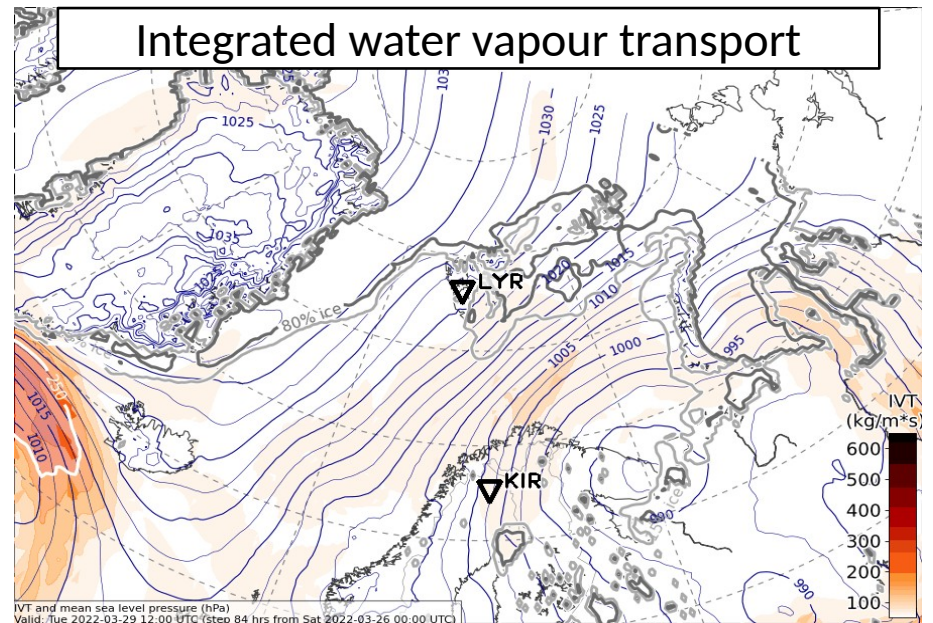
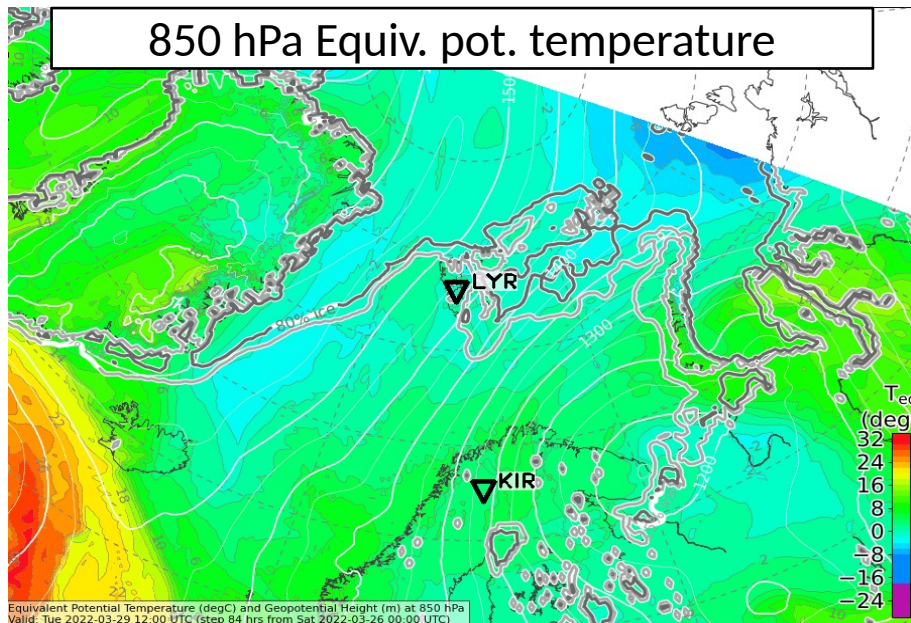
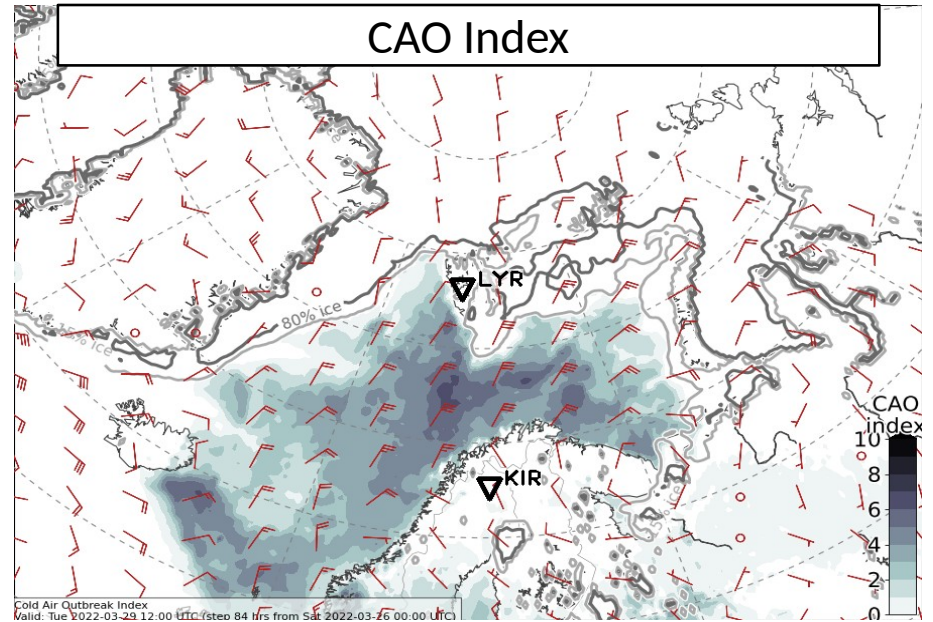
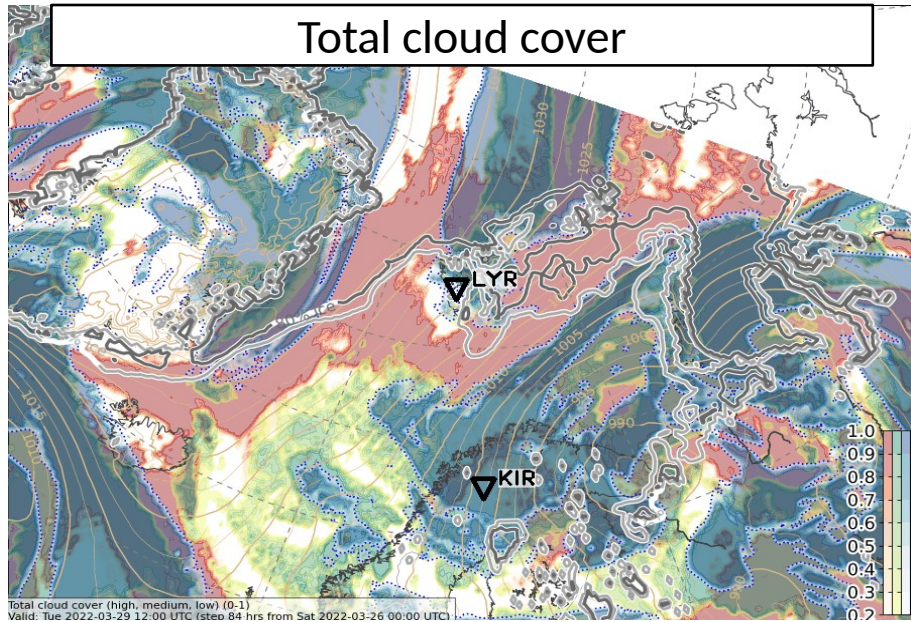


Integrated water vapour transport



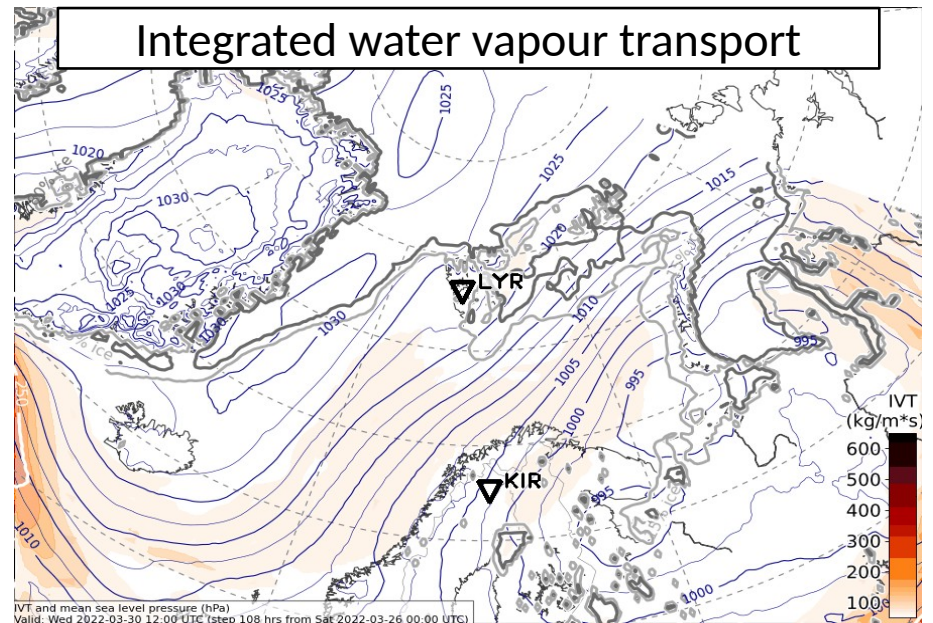
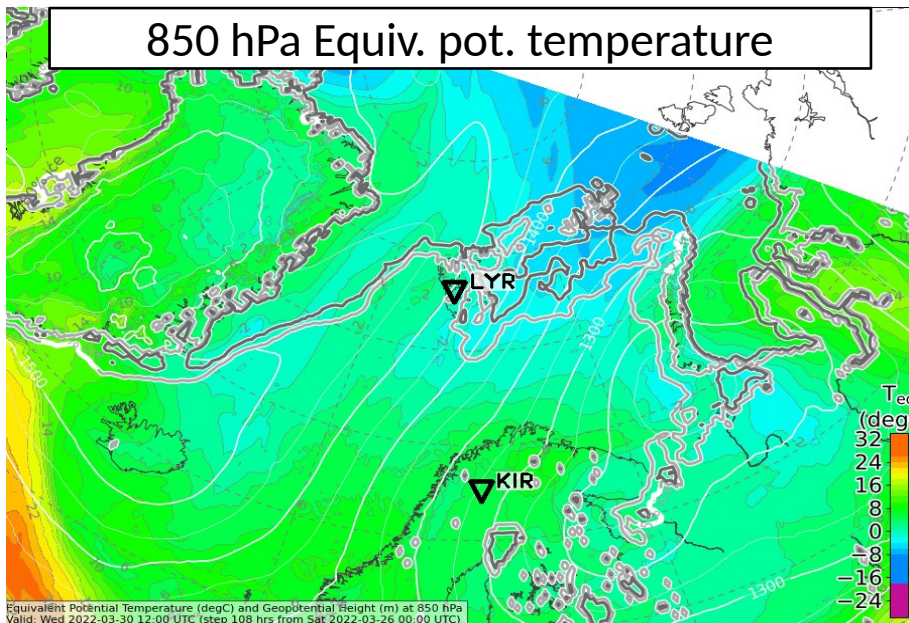
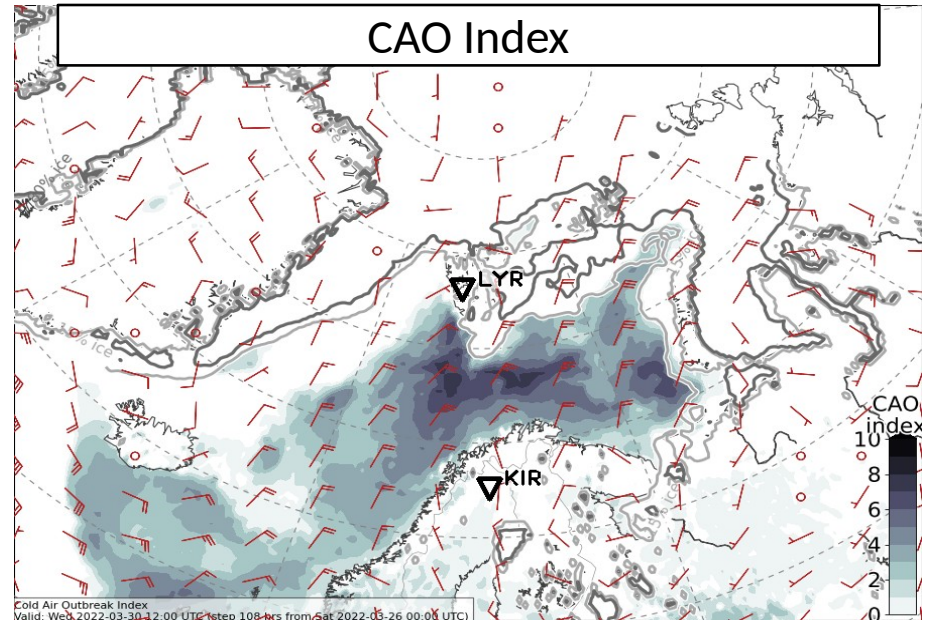
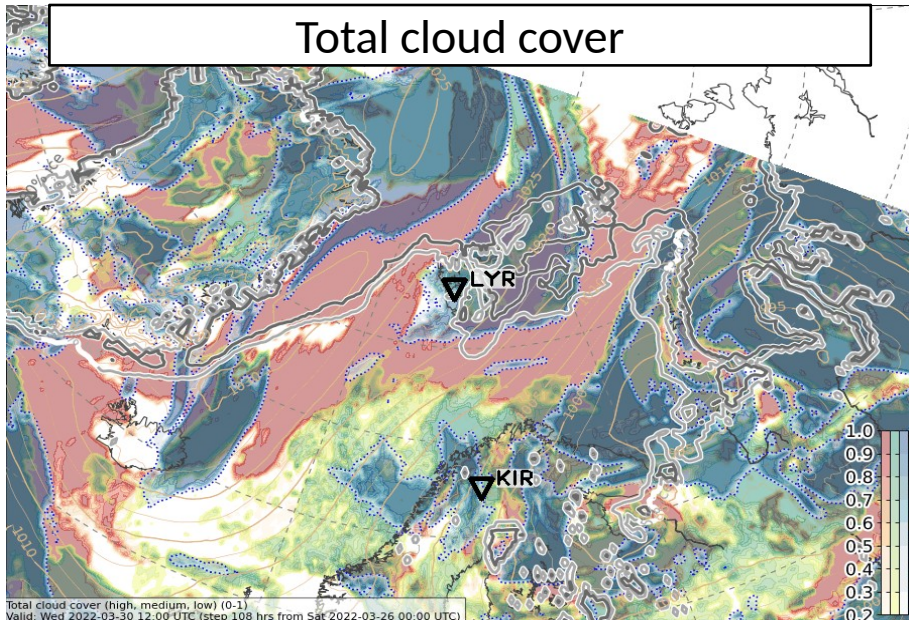


Tue, 2022-03-29 12 UTC (+84h)





Wed, 2022-03-30 12 UTC (+108h)





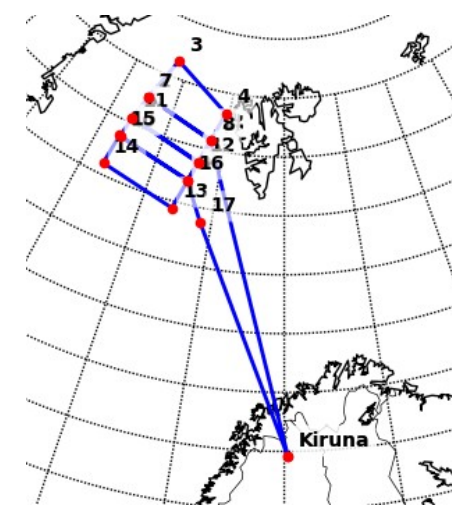
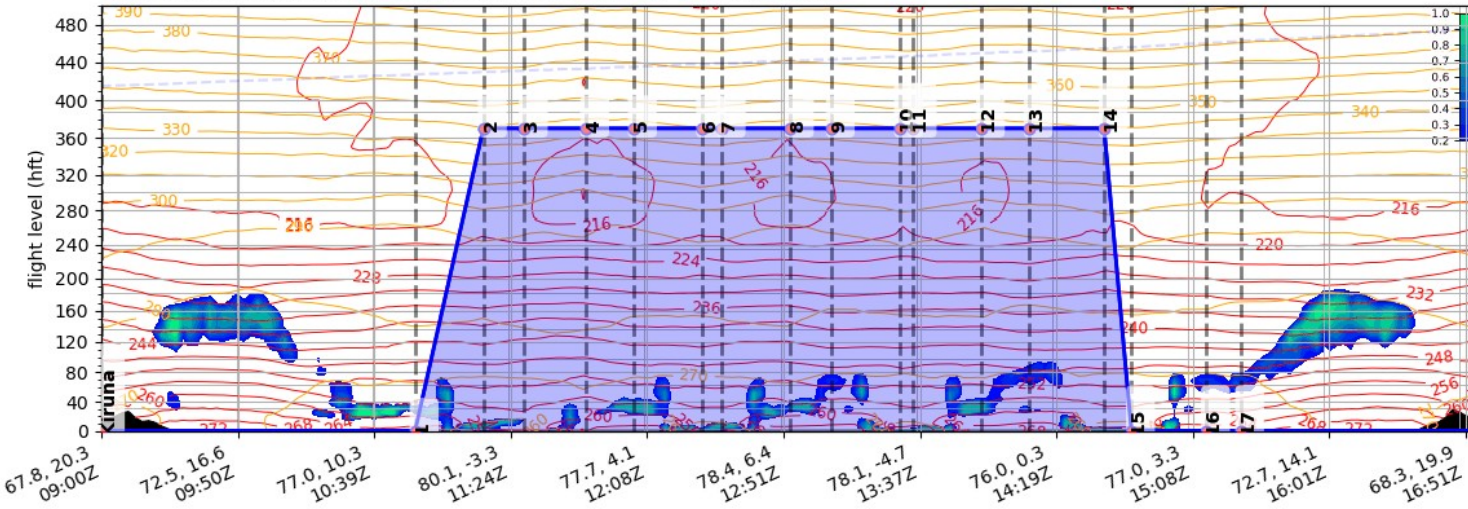
**Cloud cross-sections: HALO**  
2022-03-26 00 UTC: 60h  
ECMWF & ICON

# Mon, 2022-03-28, Clouds, 12 UTC

## ECMWF

Cloud Cover (0-1) vertical section

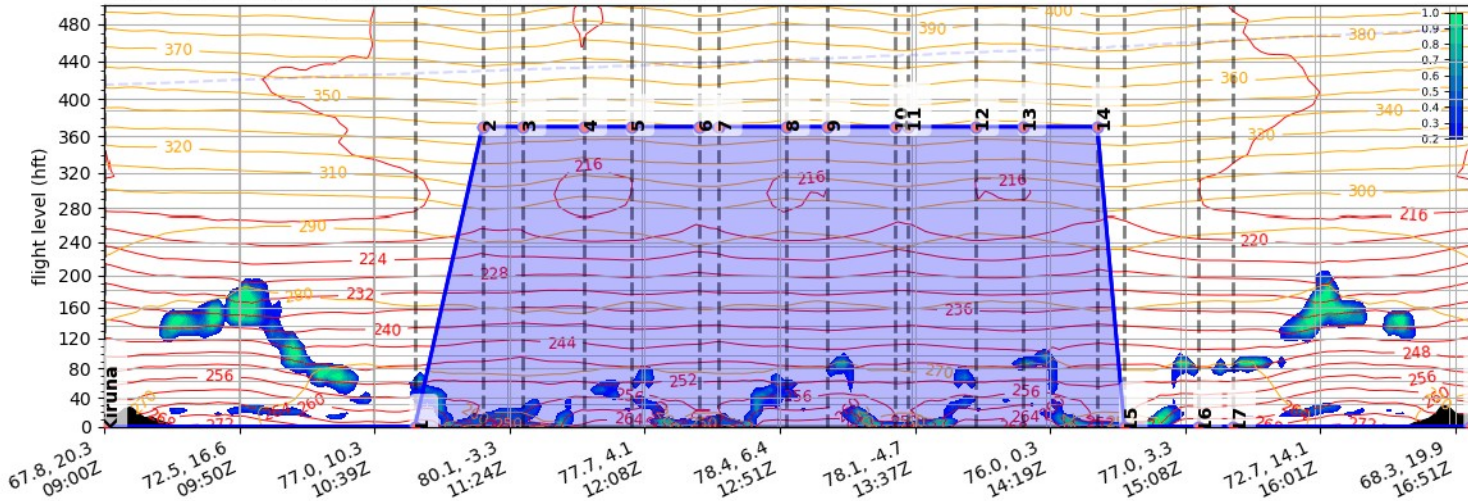
Valid: 2022-03-28T12:00:00Z (initialisation: 2022-03-26T00:00:00Z)



## ICON

Cloud Cover (0-1) vertical section

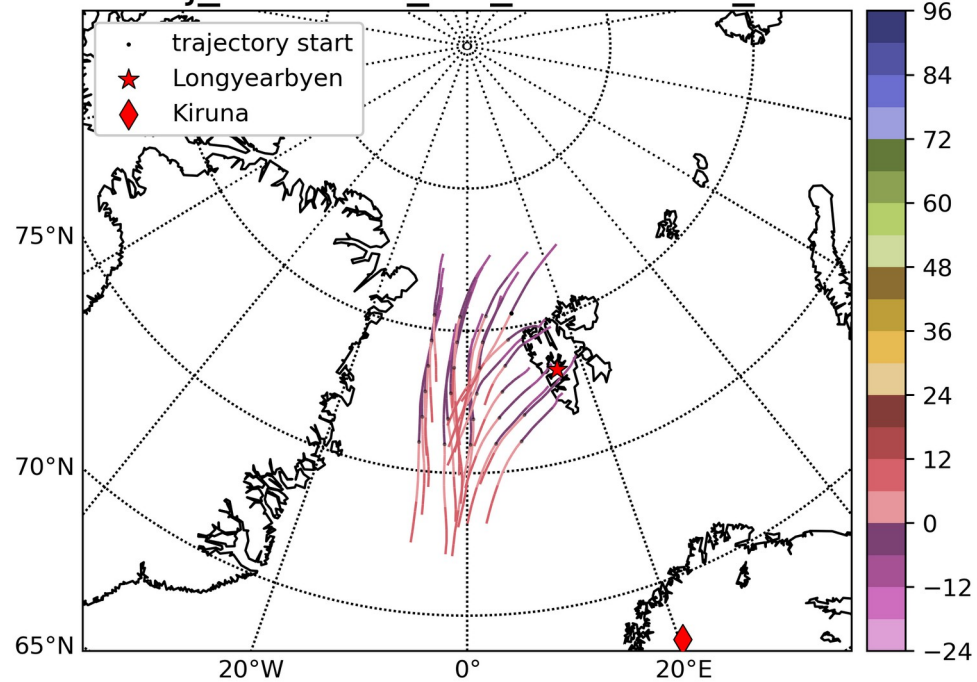
Valid: 2022-03-28T12:00:00Z (initialisation: 2022-03-26T00:00:00Z)



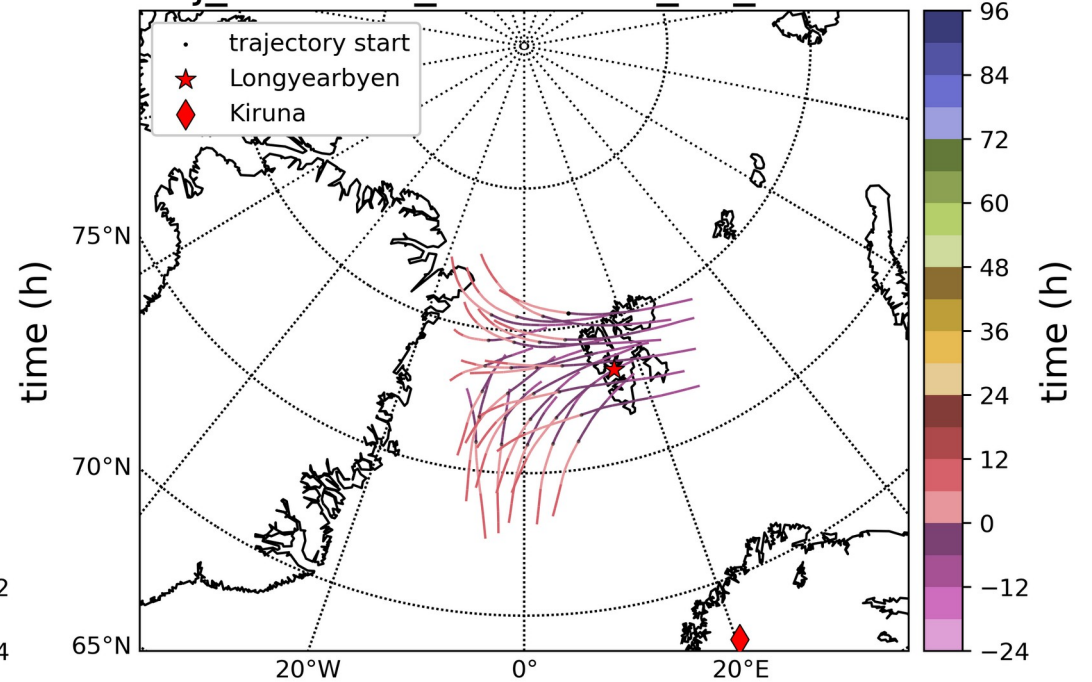


# Mon, 2022-03-28, Trajectories

HALO-(AC)3 trajectories  
traj\_CUSTOM\_sfc\_20220328\_10



HALO-(AC)3 trajectories  
traj\_CUSTOM\_20220328\_10\_500hPa

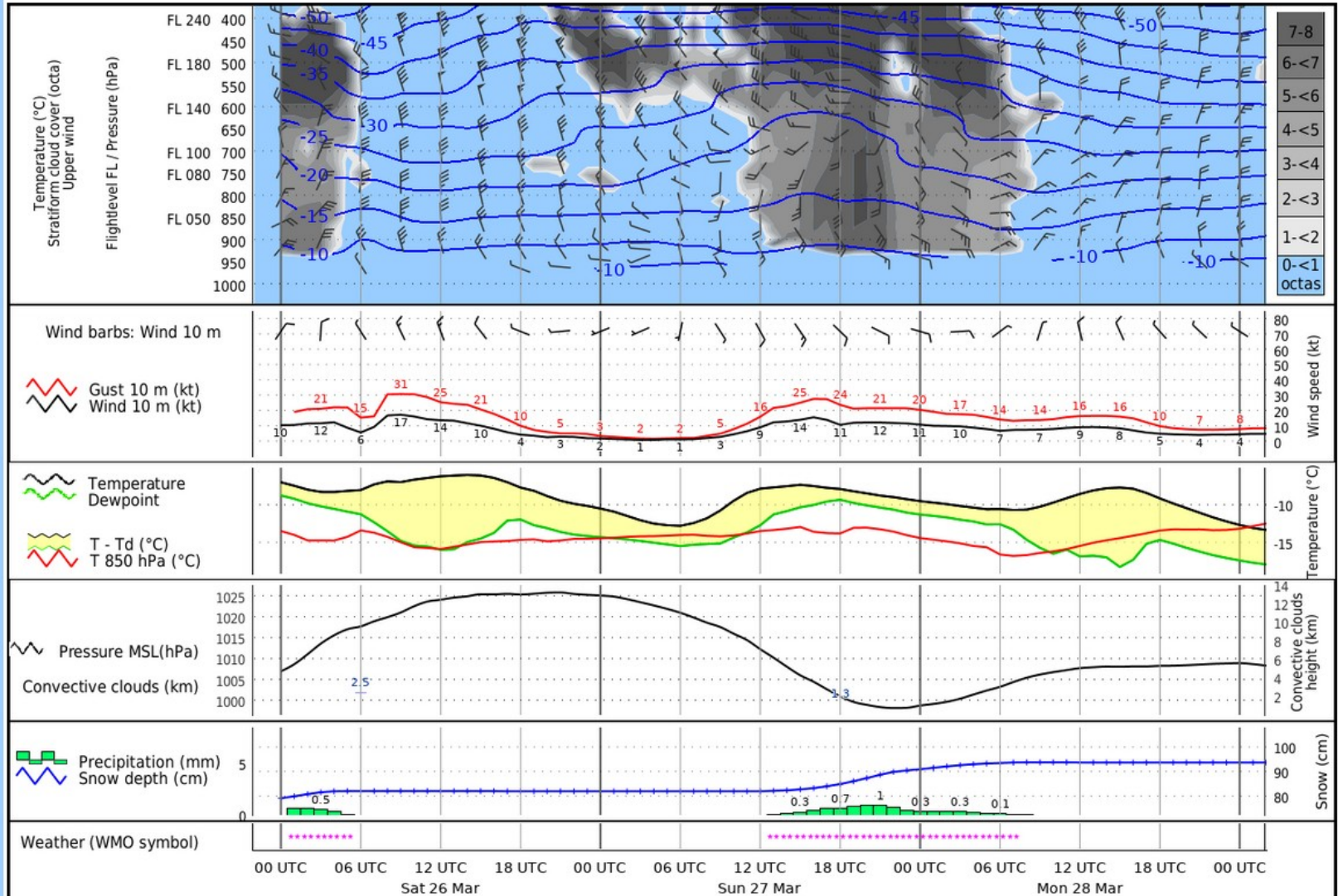


## **Airport meteograms & local weather at Svalbard**



# Kiruna:

Meteogramm Kiruna gültig ab Sa, 26.03.2022 00 UTC



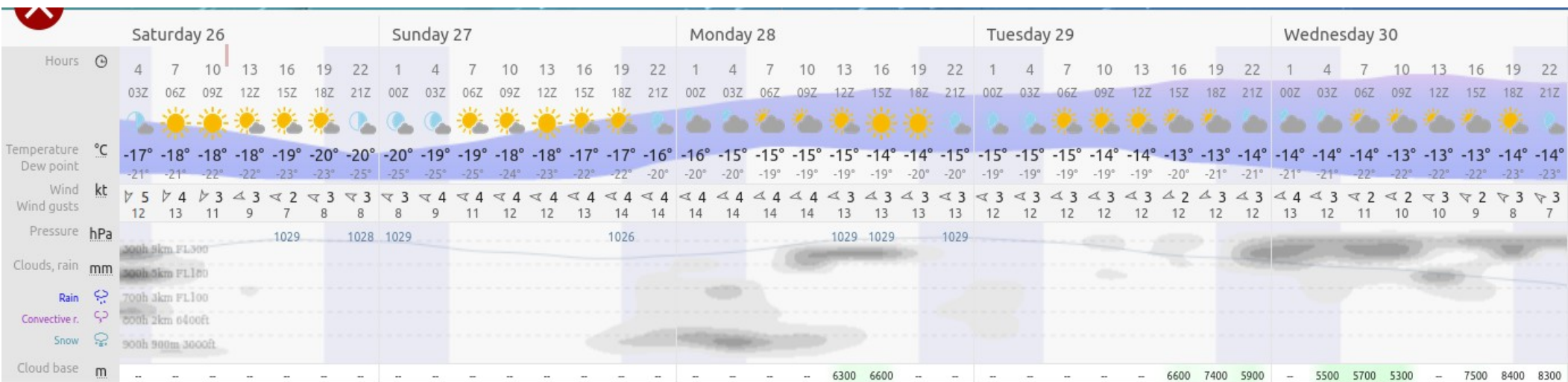
Meteogram Kiruna (ESNQ), 460 m, LAT/LON: N 67°49' E 20°20'

ICON-EU 2022-03-26 00 UTC, model height: 460 m

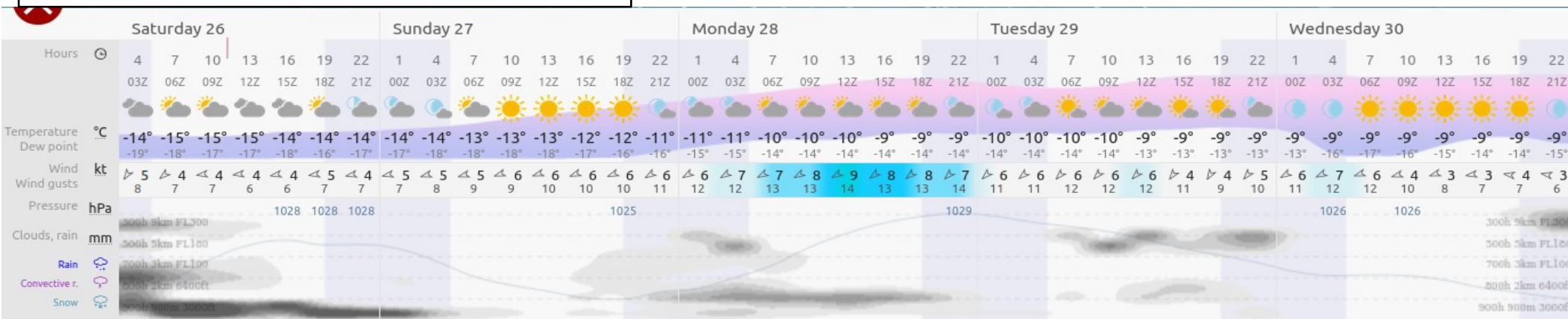


# Longyearbyen:

## ECWMF



## ICON





# Summary

## Summary: Weather Briefing 2022-03-18, 17:00 LT

- **Monday, 2022-03-28:**
  - Svalbard: Northeasterly flow parallel to sea-ice edge
  - Svalbard: Low clouds, weak Cold Air Outbreak; favorable T/O conditions
  - Norwegian Sea: medium+high clouds from low
- **Tuesday, 2022-03-29:**
  - Almost identical as Monday
  - Some high clouds advect from Siberia towards north of Svalbard
- **Wednesday, 2022-03-30:**
  - Almost identical as Mon/Tue
  - High clouds remain above Svalbard, otherwise only low clouds