

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

Friday, 2022-04-08, 09:00 LT

## **Surface wind development and precipitation**

2022-04-07 12 UTC: 48 – 96h

ECMWF

2022-04-08 00 UTC: 36 – 84h

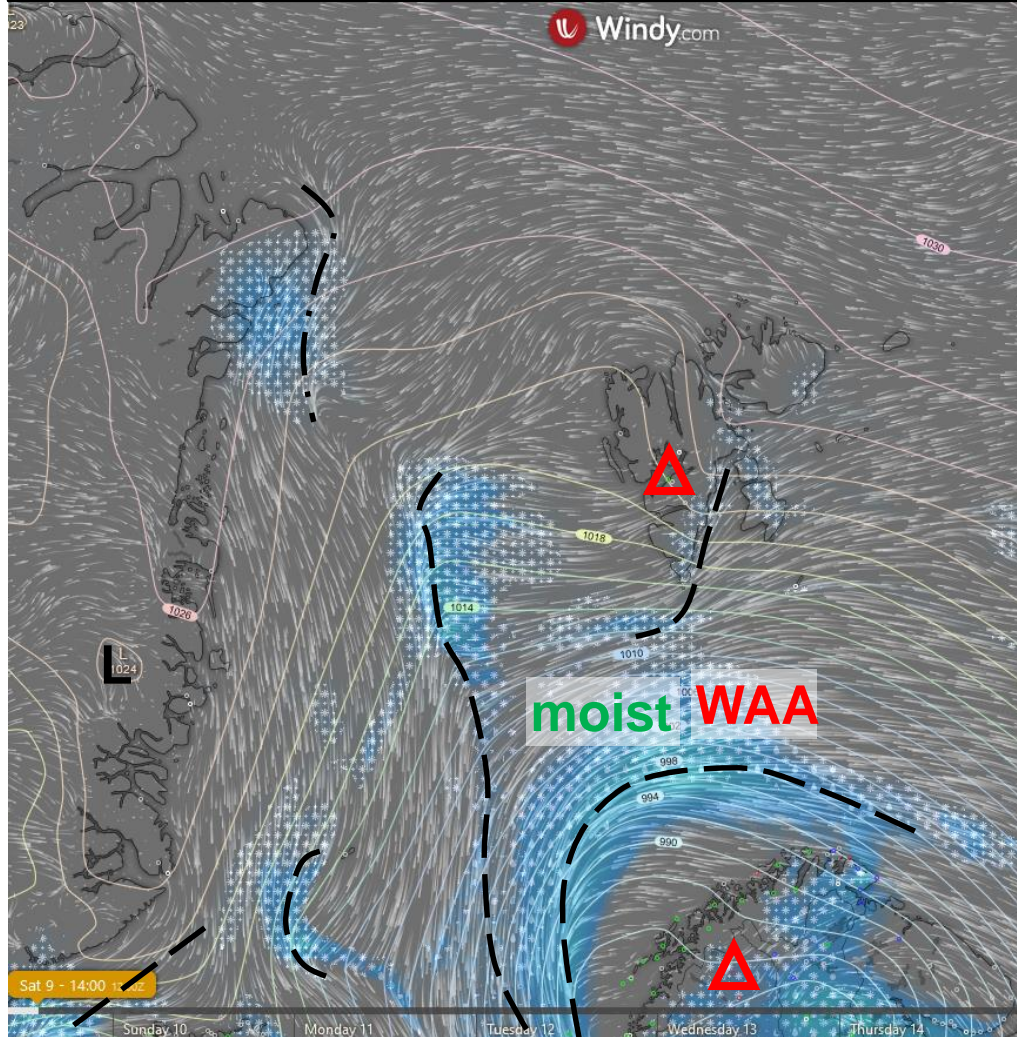
ICON

**CAA: Cold Air Advection**

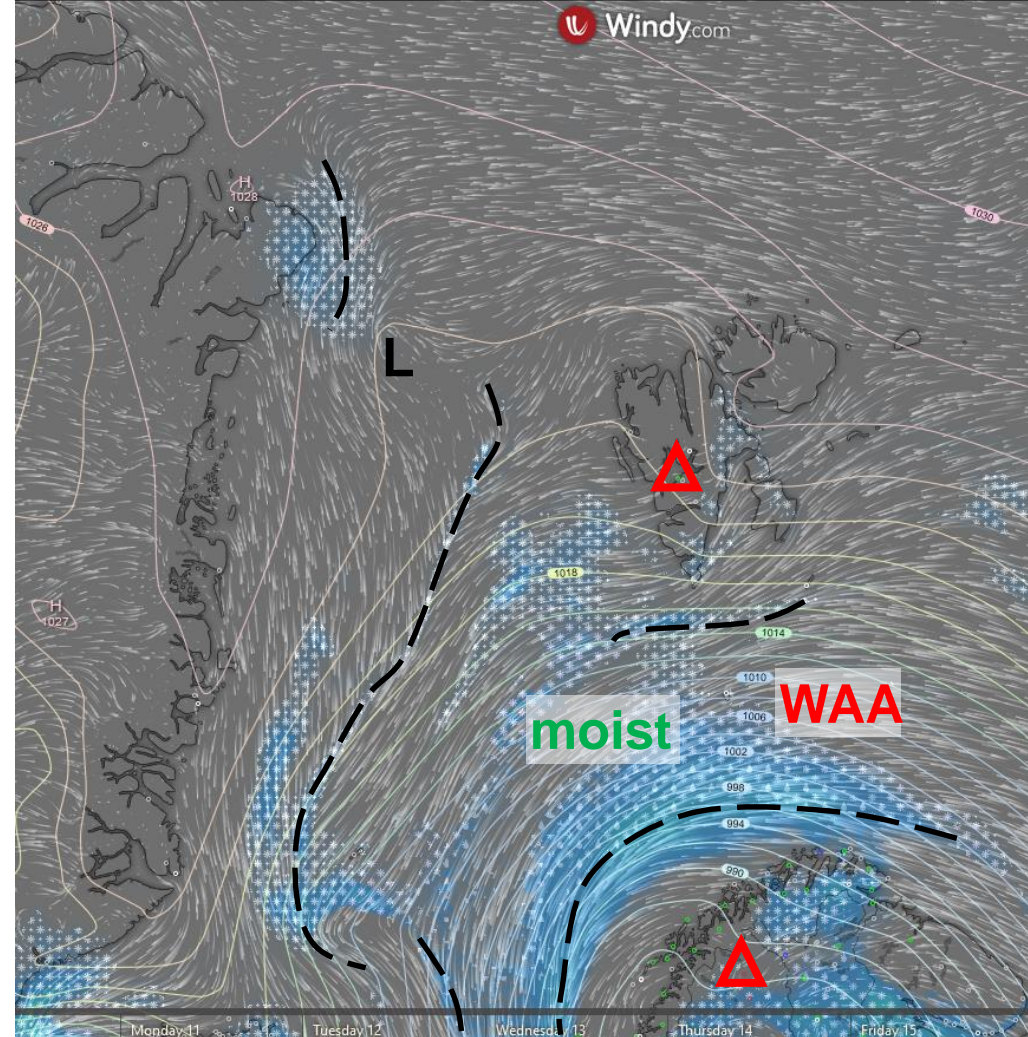
**WAA: Warm Air Advection**

Saturday, 2022-04-09 12 UTC

ECMWF (y00)



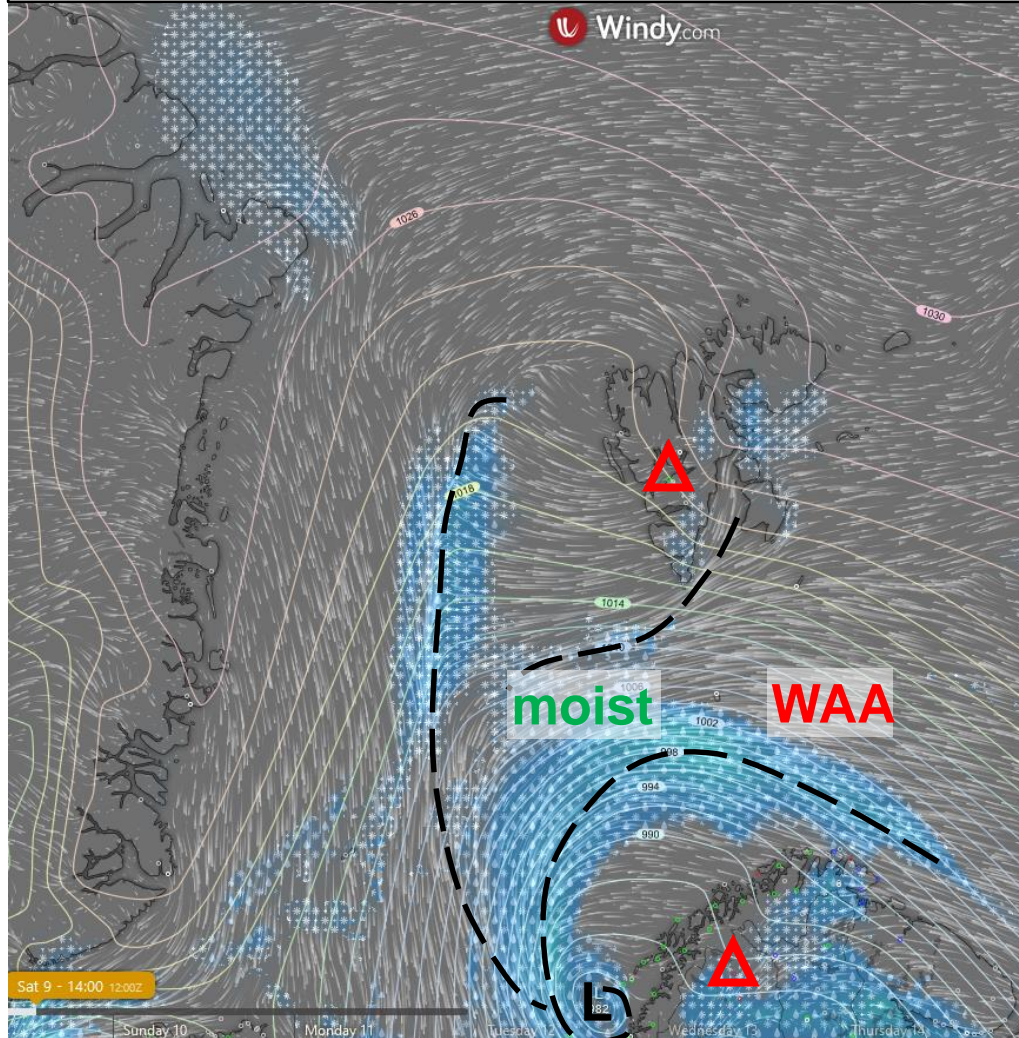
ECMWF (y12)



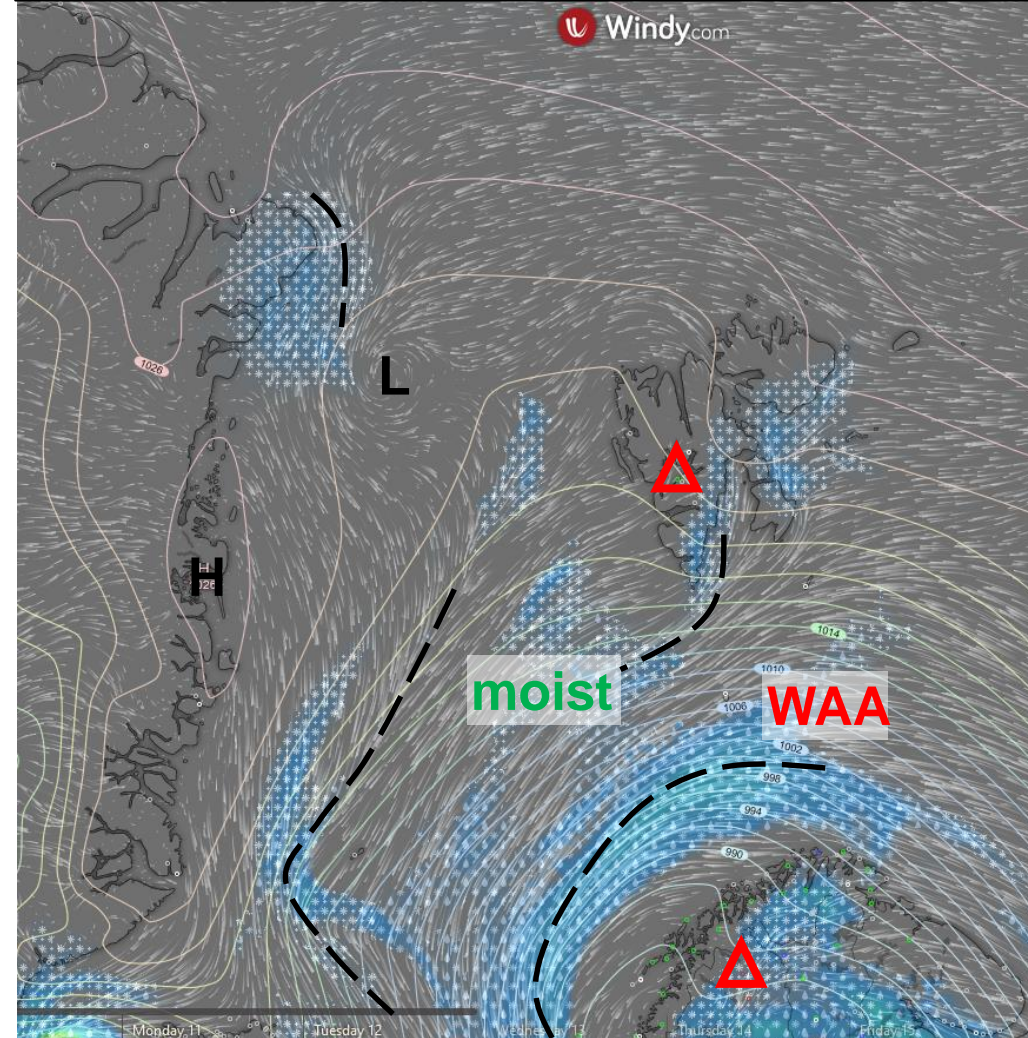


Saturday, 2022-04-09 12 UTC

ICON (y00)



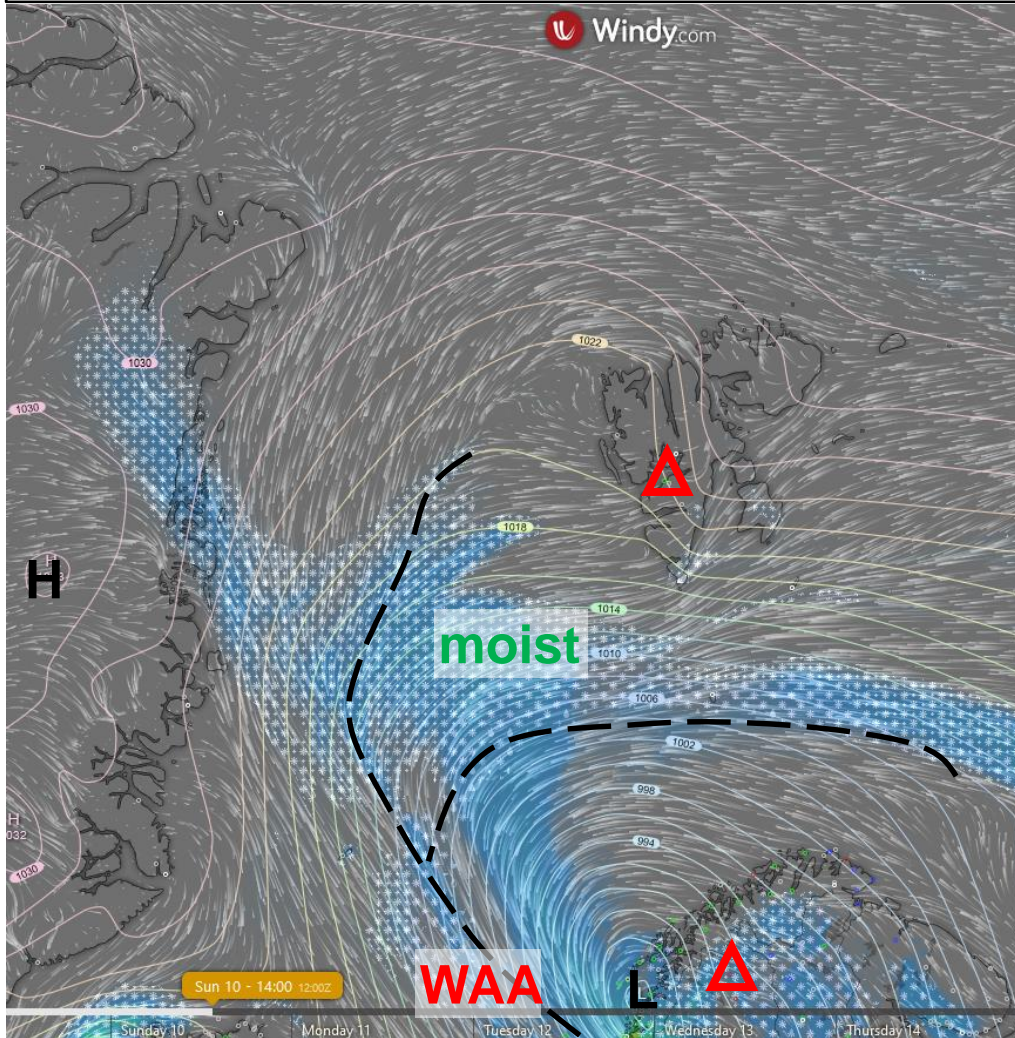
ICON (t00)



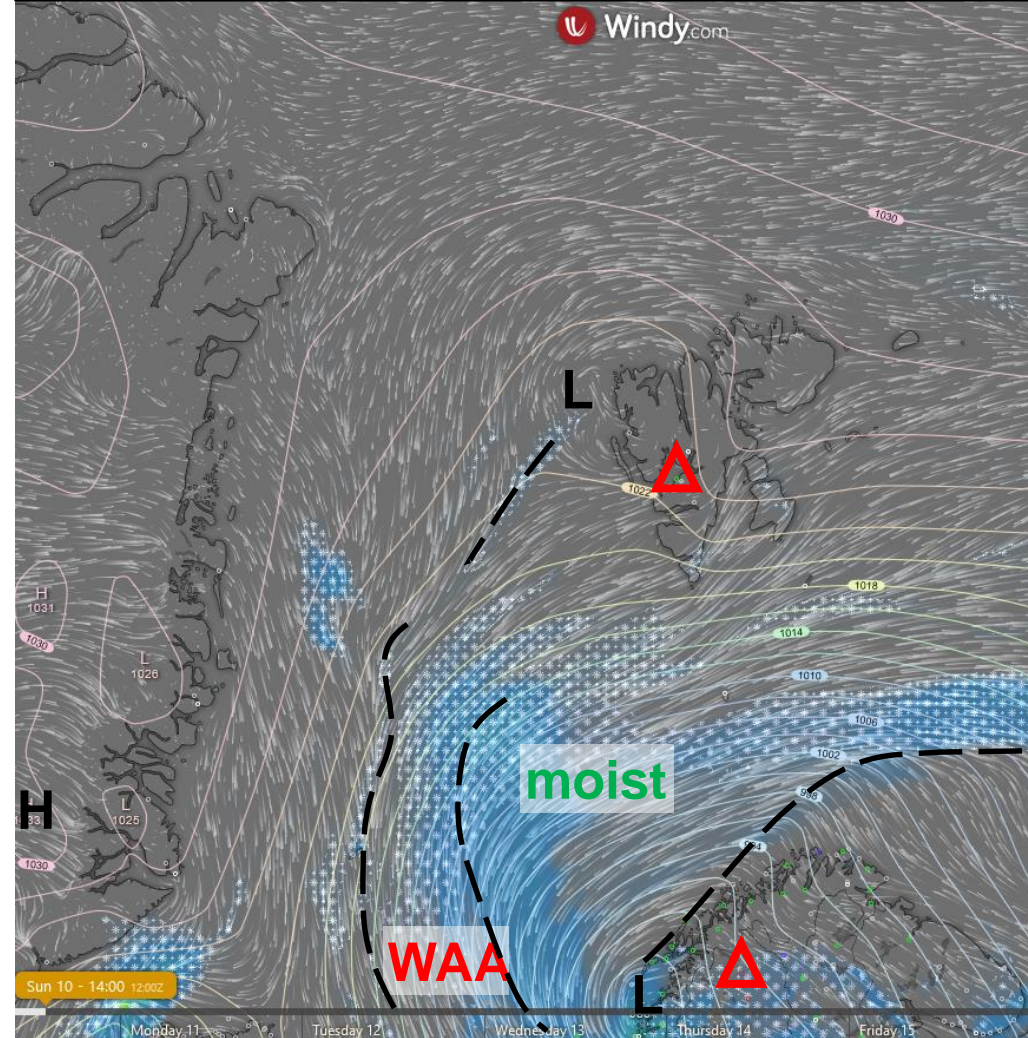


# Sunday, 2022-04-10 12 UTC

ECMWF (y00)



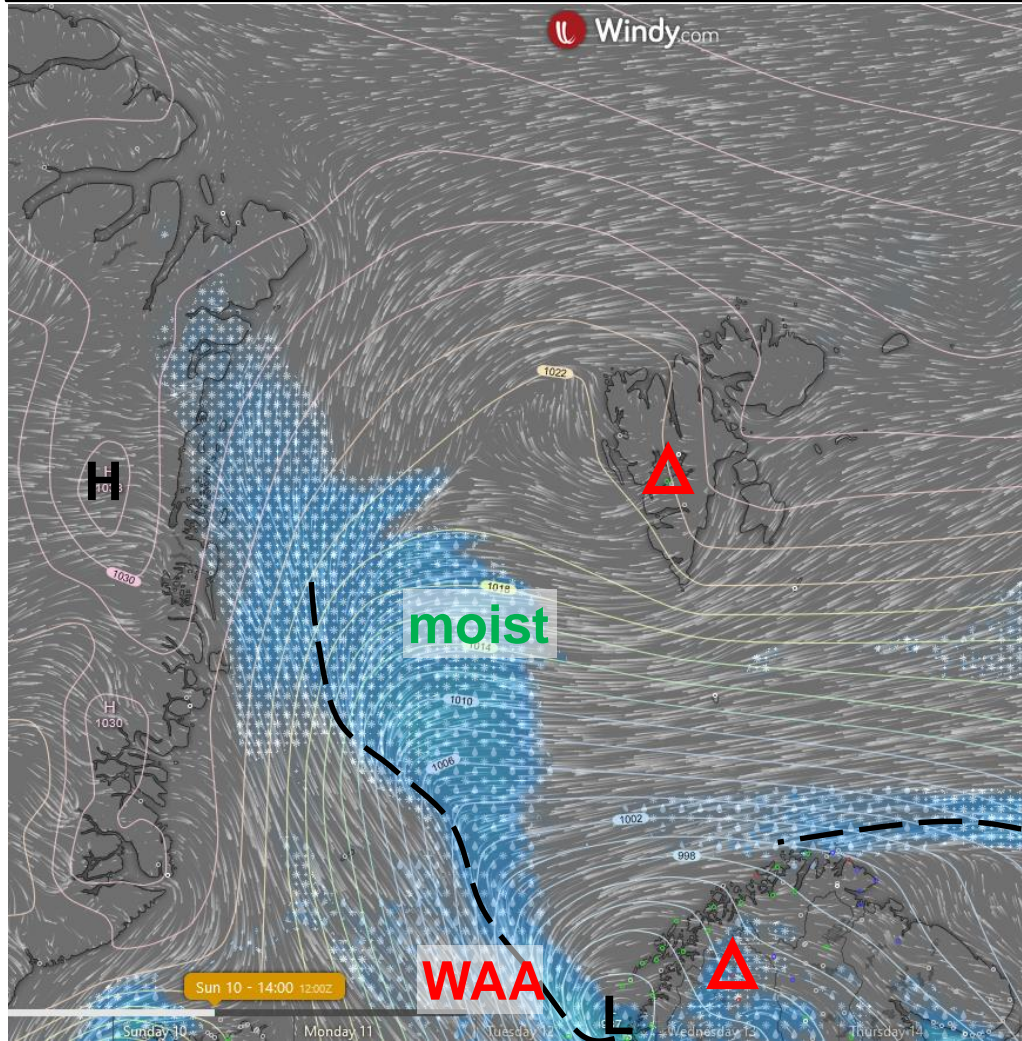
ECMWF (y12)



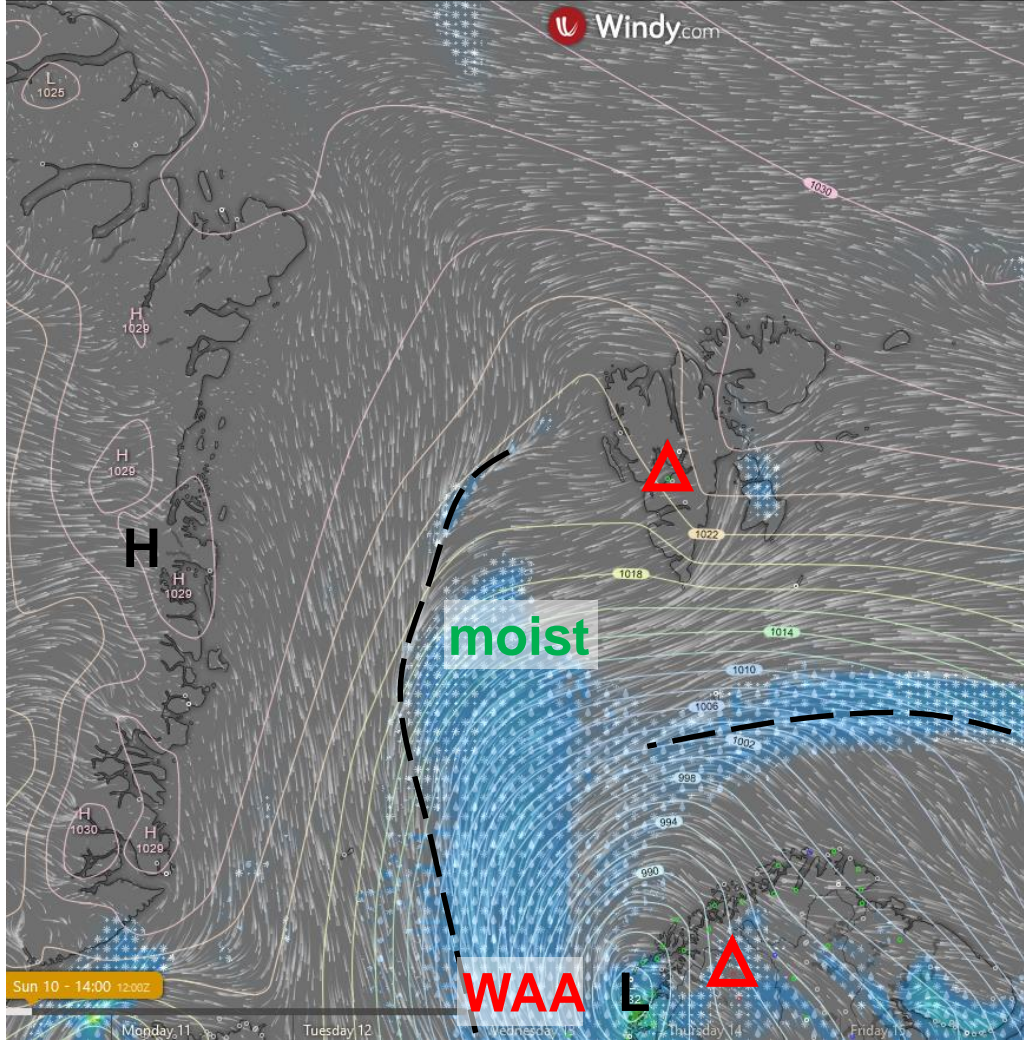


# Sunday, 2022-04-10 12 UTC

## ICON (y00)



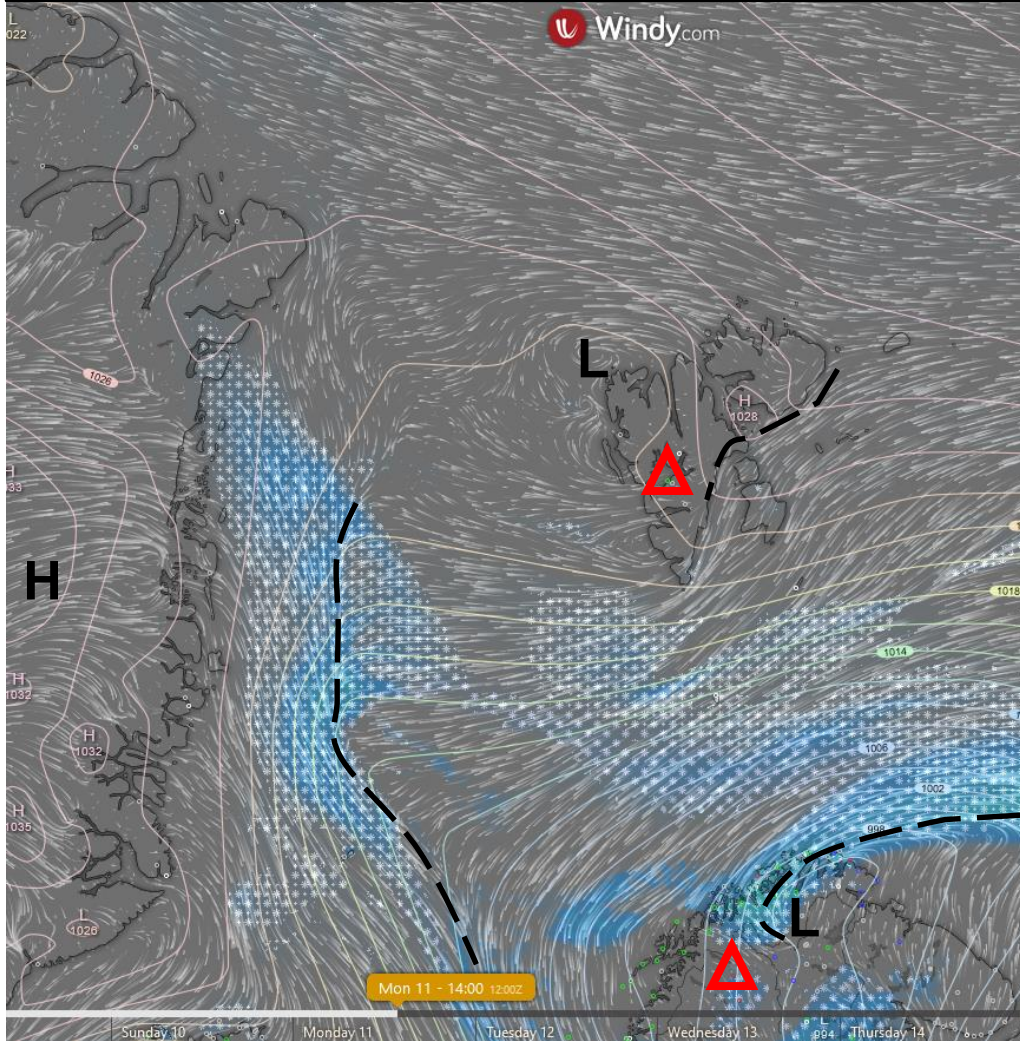
## ICON (t00)



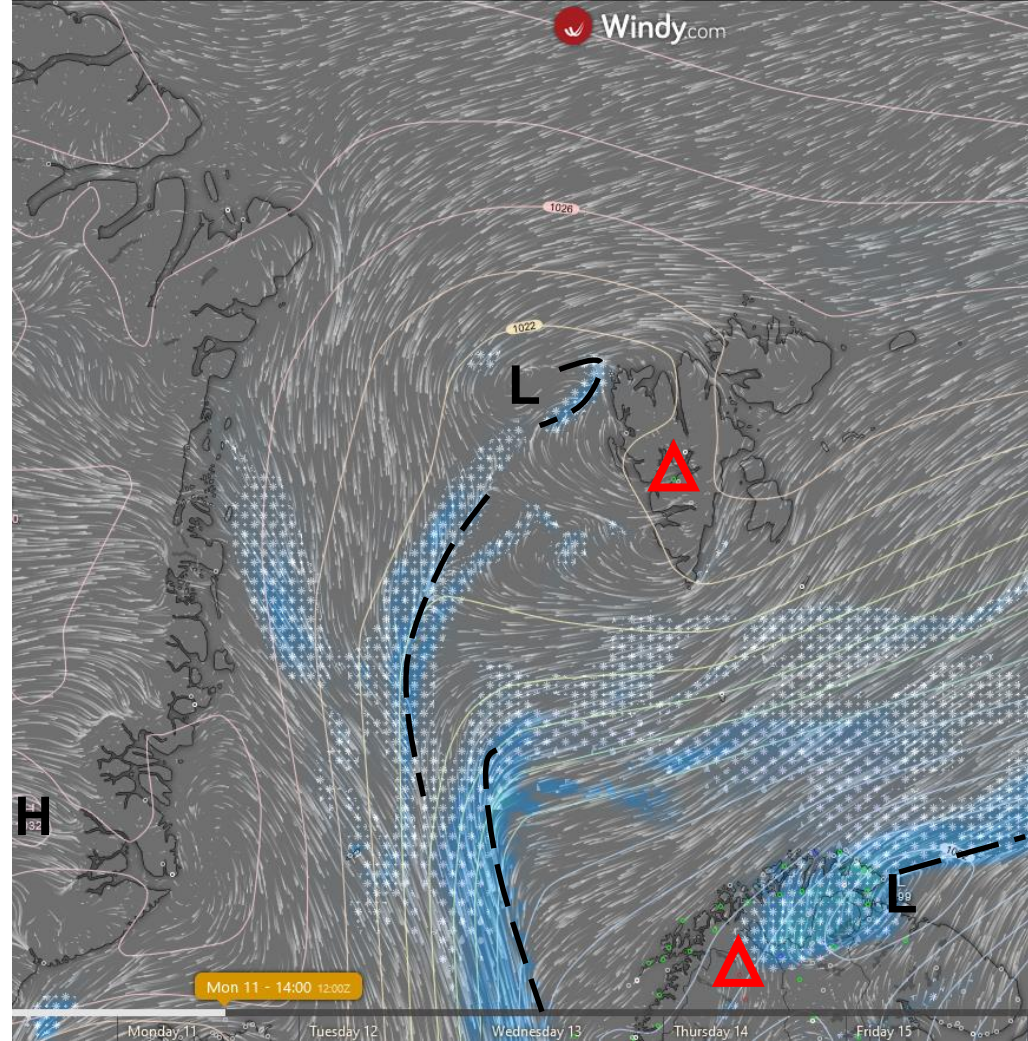


# Monday, 2022-04-11 12 UTC

ECMWF (y00)



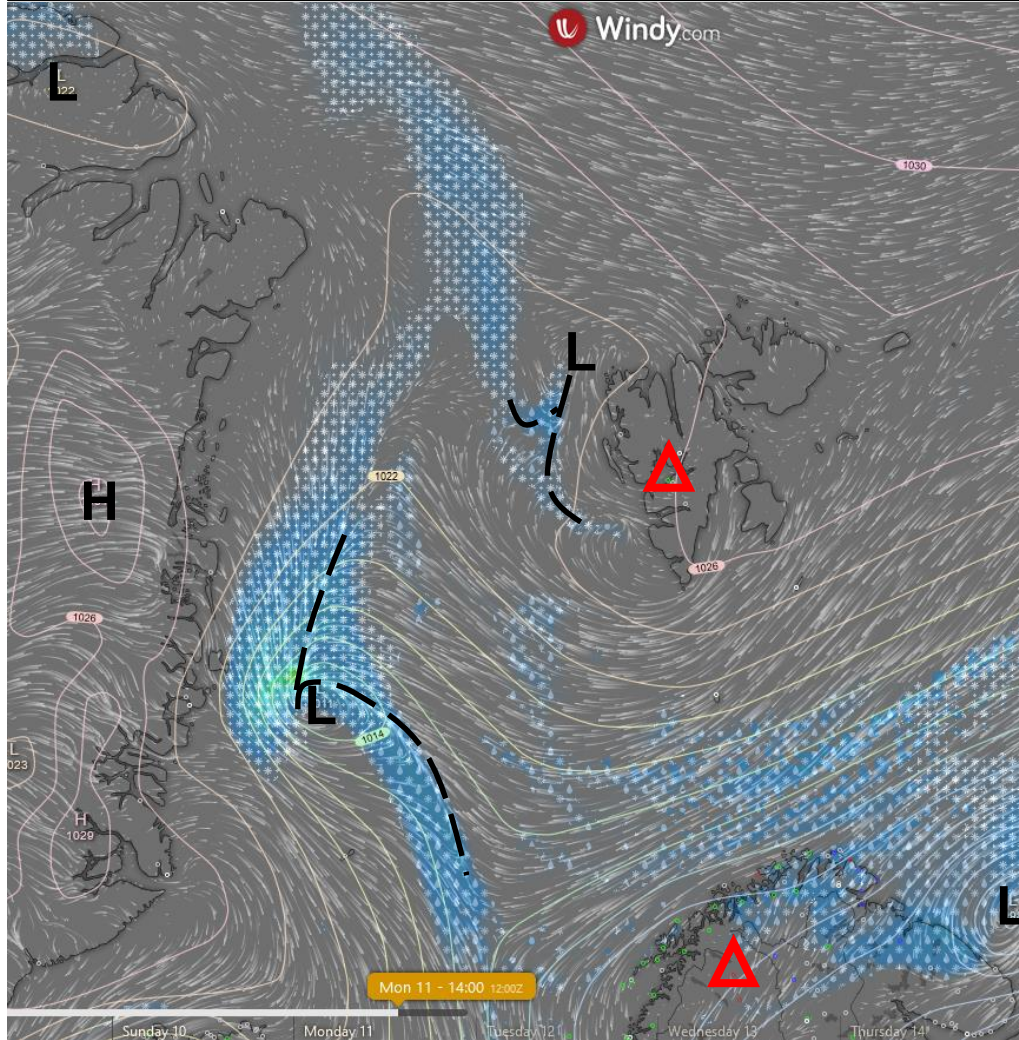
ECMWF (y12)



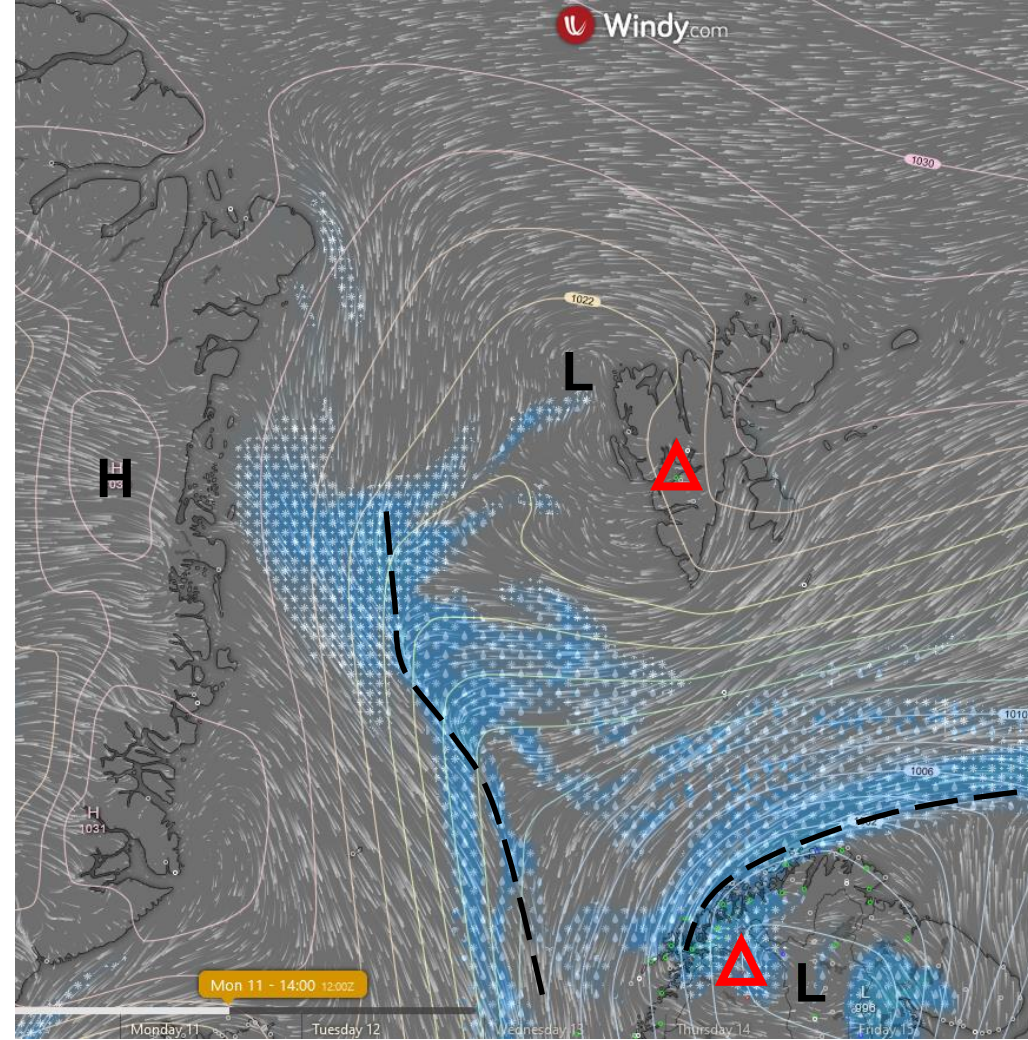


# Monday, 2022-04-11 12 UTC

## ICON (y00)



## ICON (t00)





## **Cloud situation**

2022-04-07 12 UTC: 48 – 96h

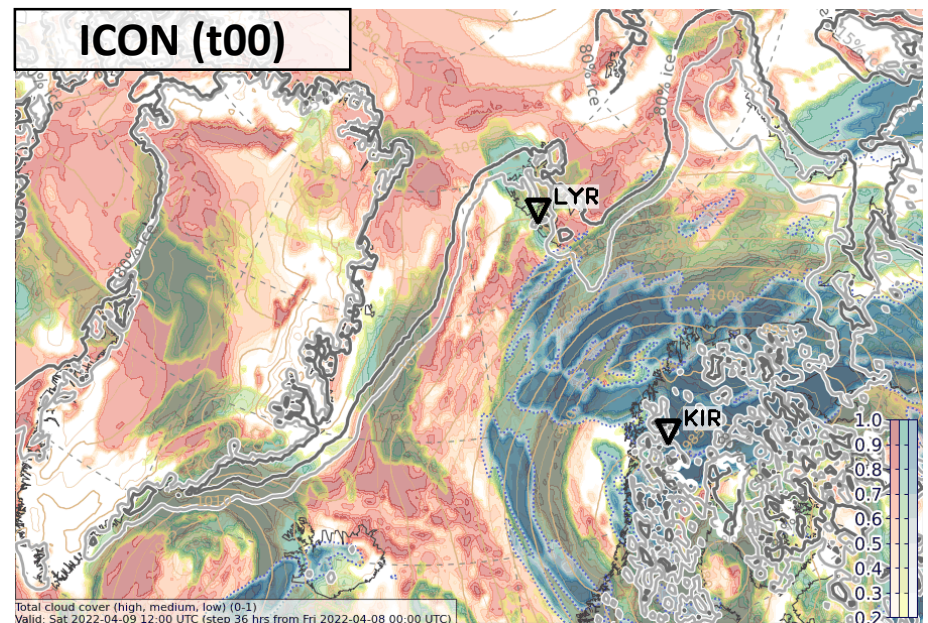
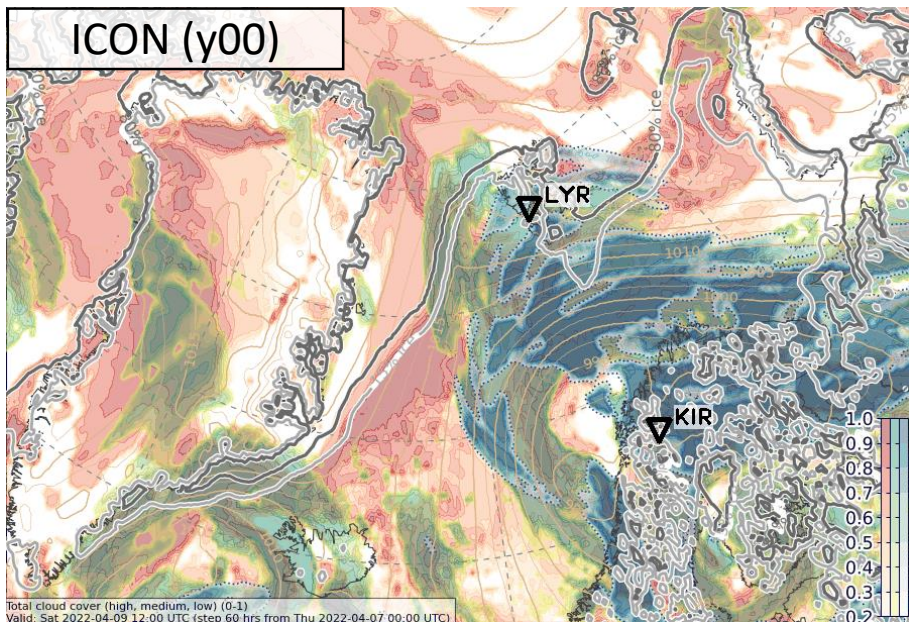
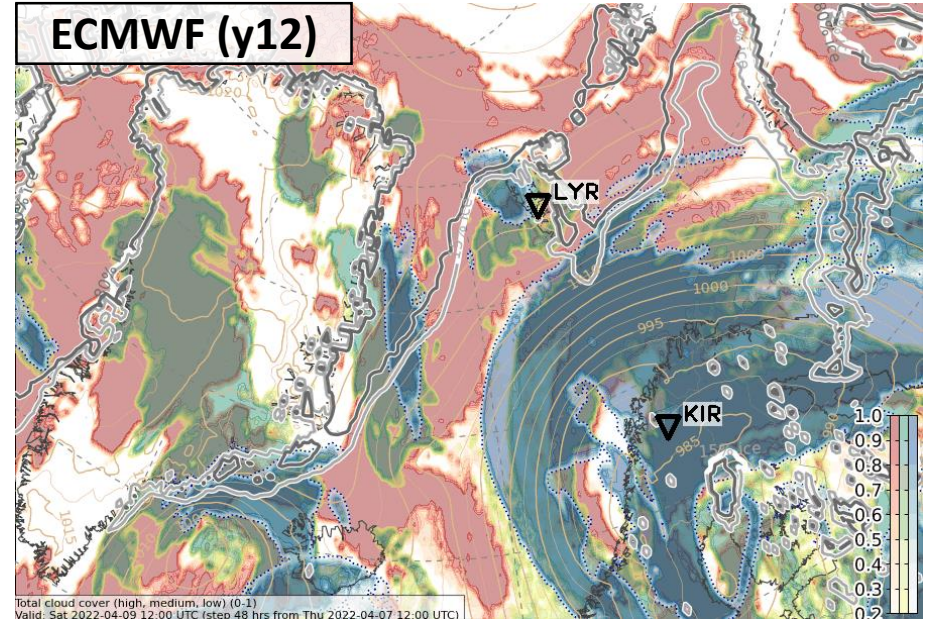
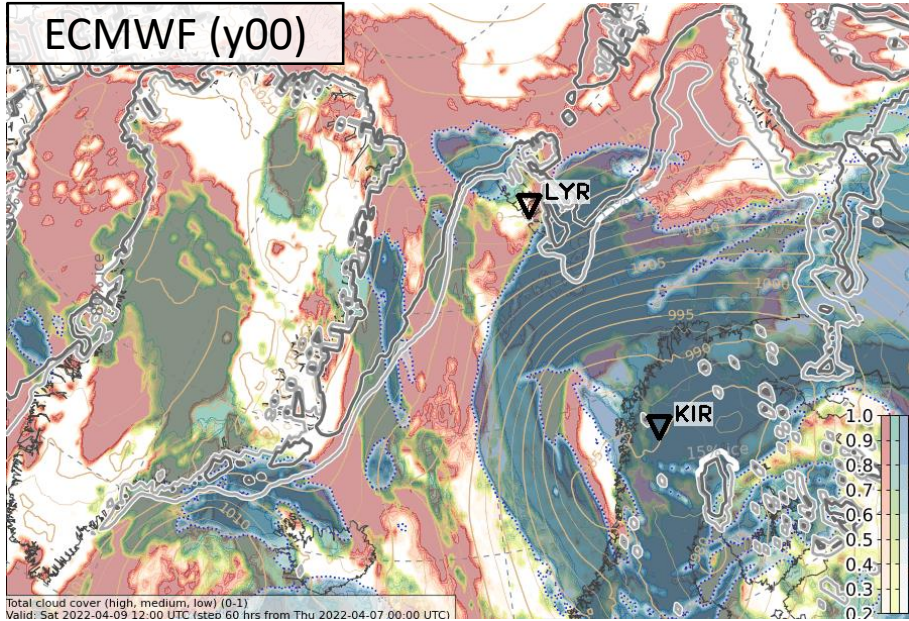
ECMWF

2022-04-08 00 UTC: 36 – 84h

ICON

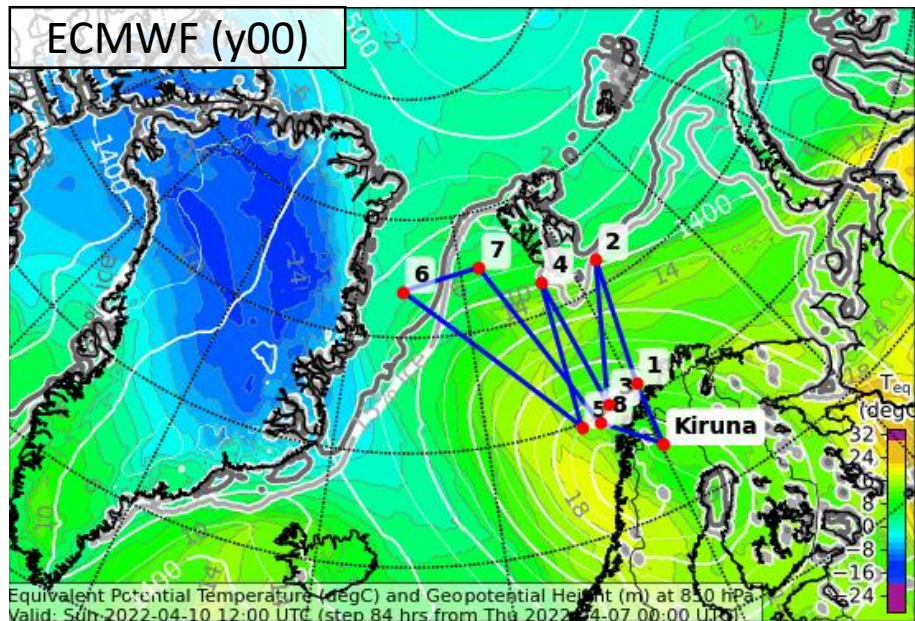


# Sat, Total Cloud Cover, 2022-04-09 12 UTC

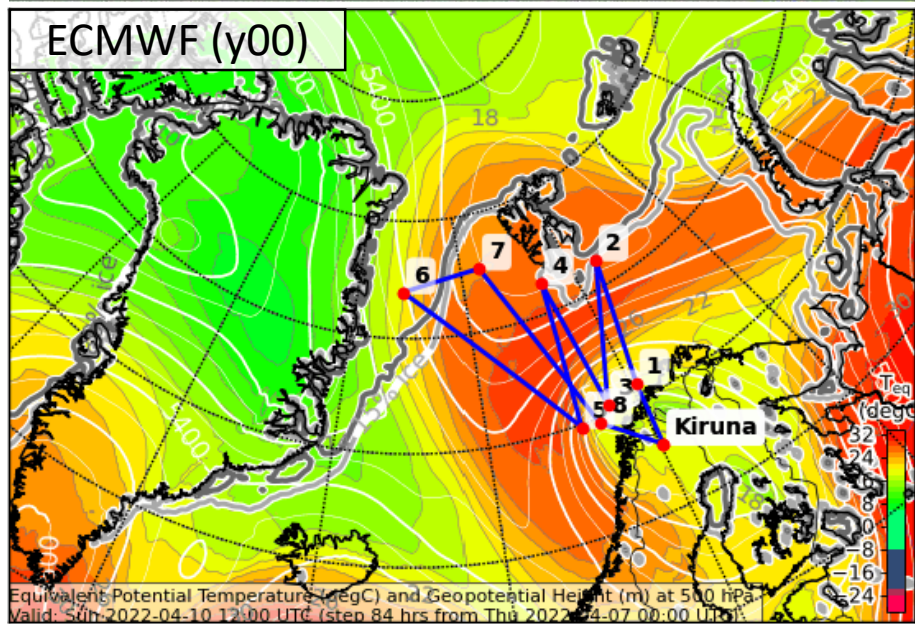
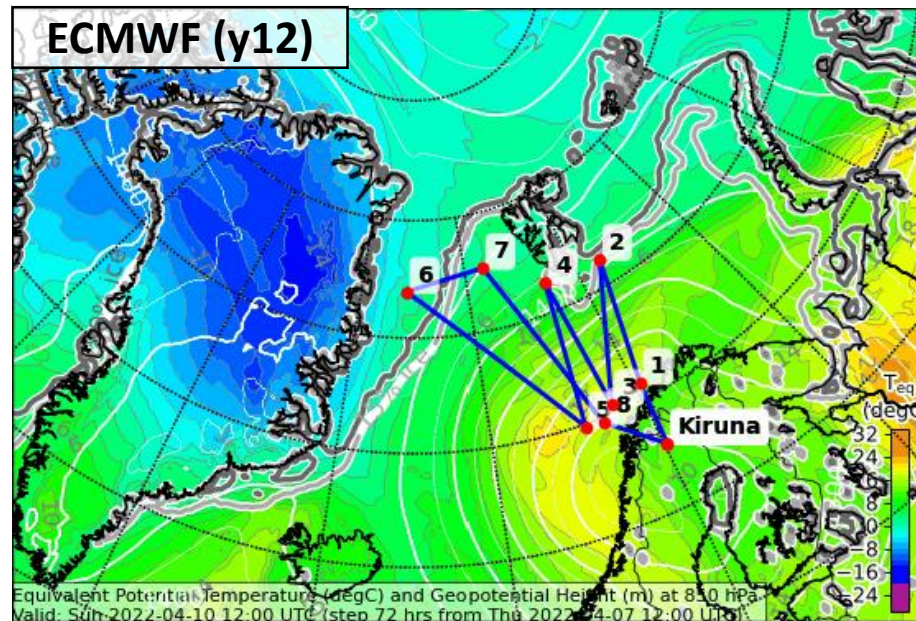




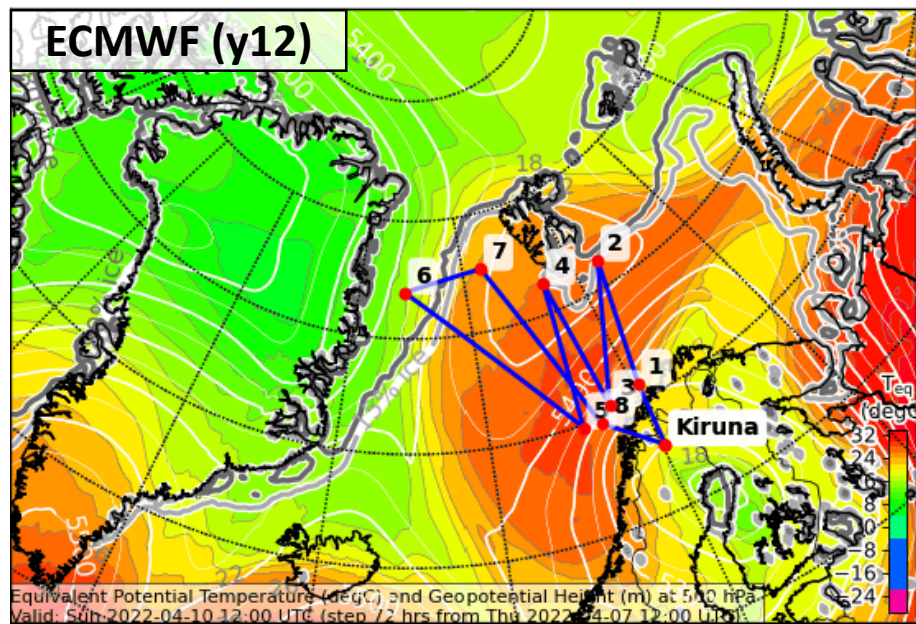
# Sun, EPT/Geopotential, 2022-04-10 12 UTC (HALO RF16)



850 hPa

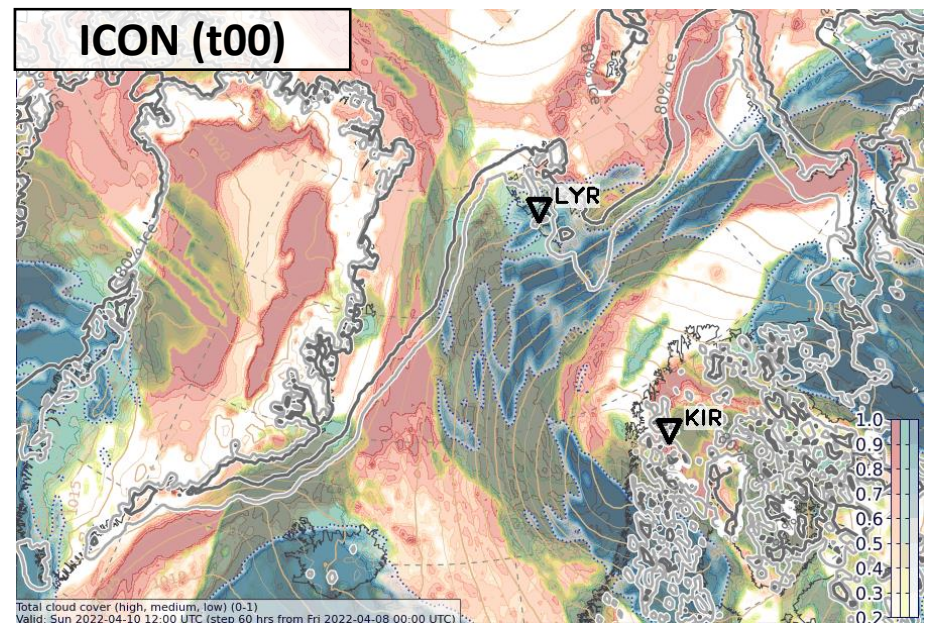
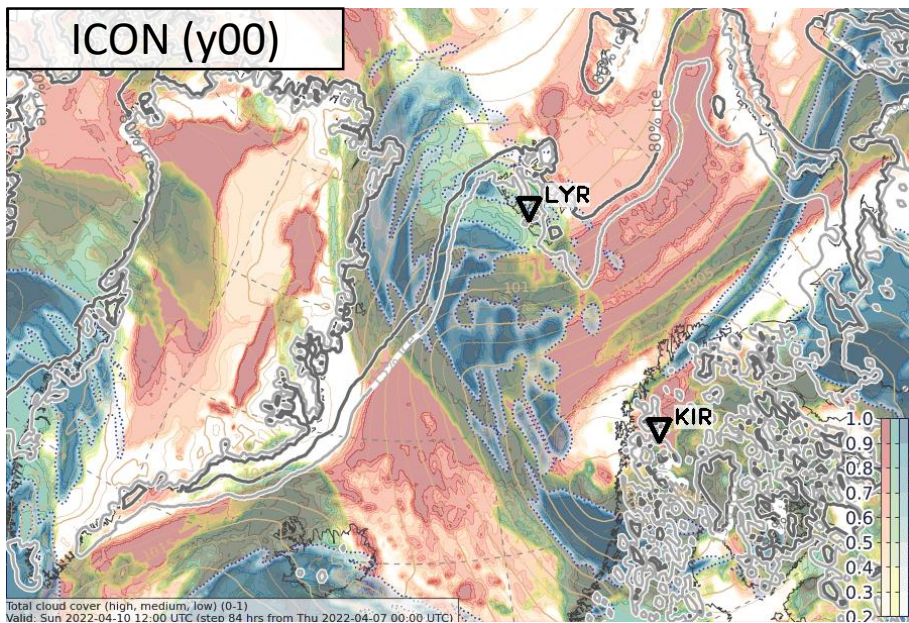
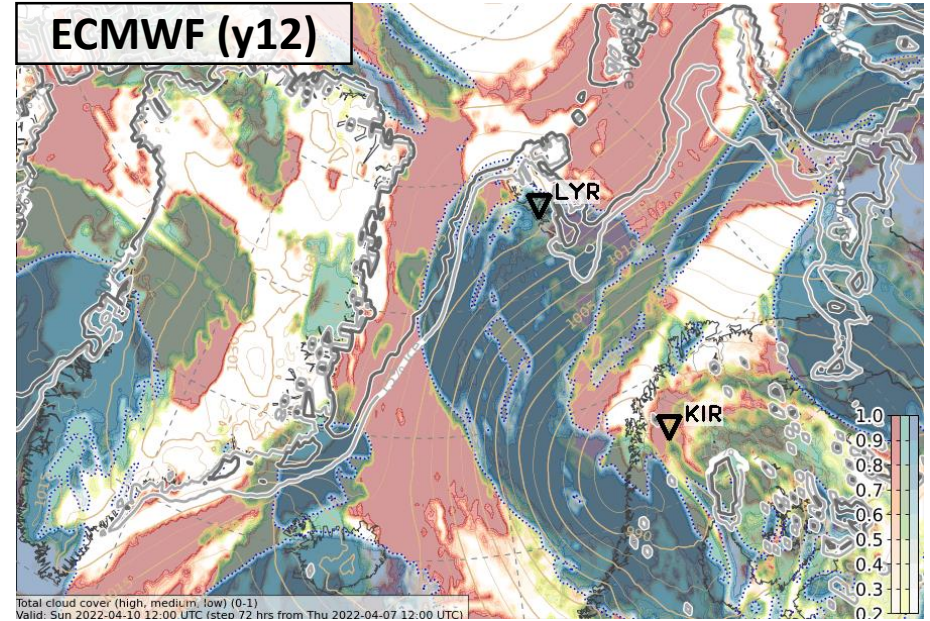
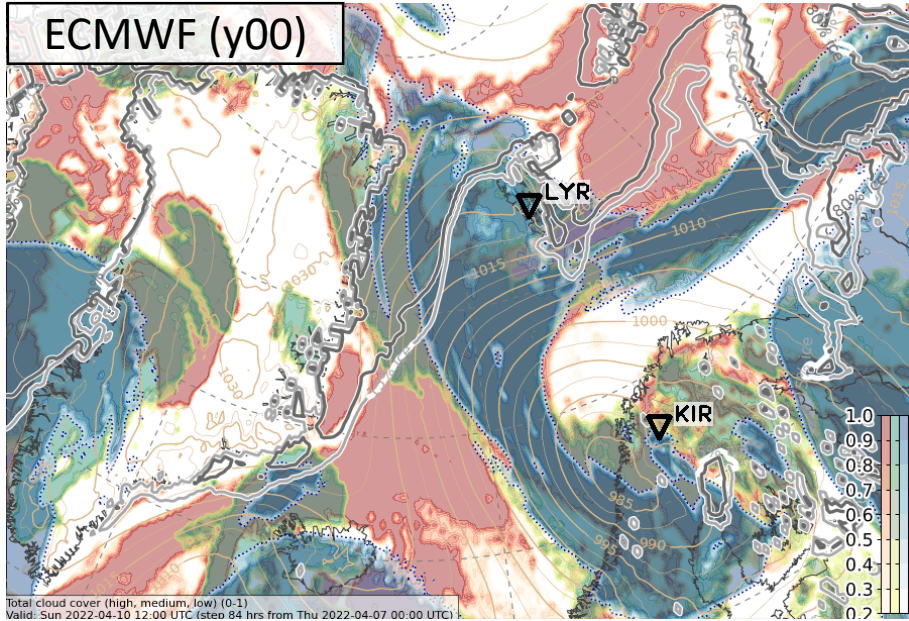


500 hPa



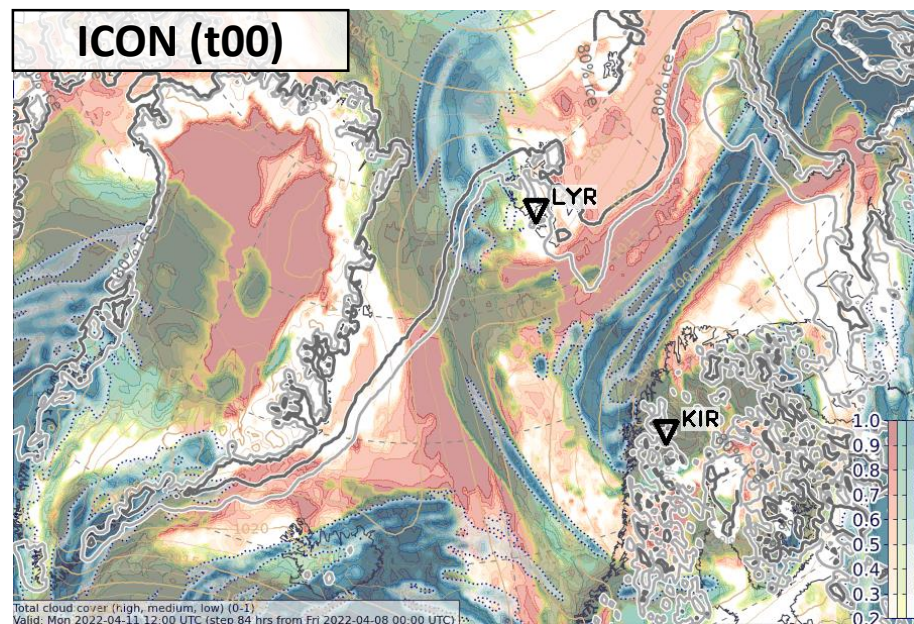
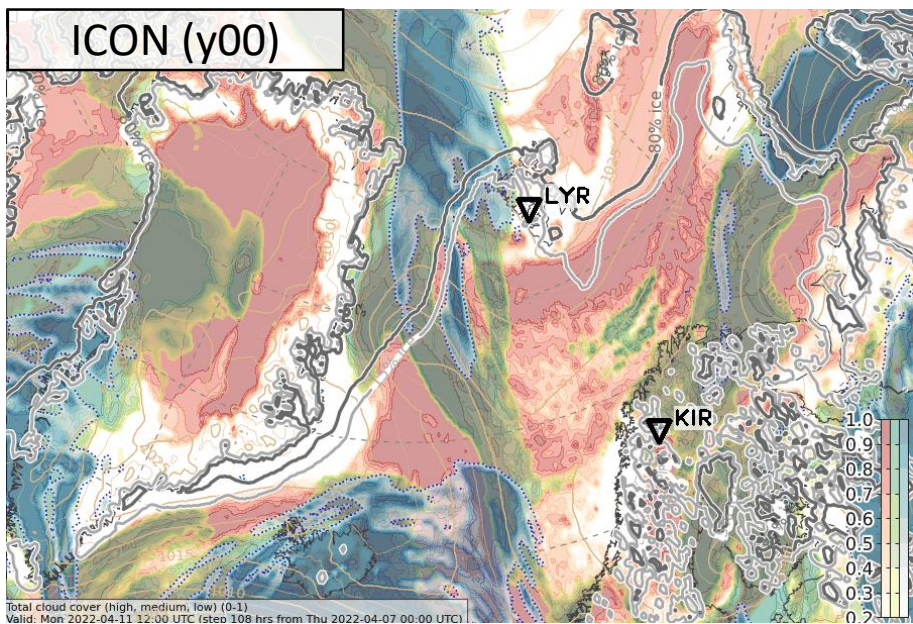
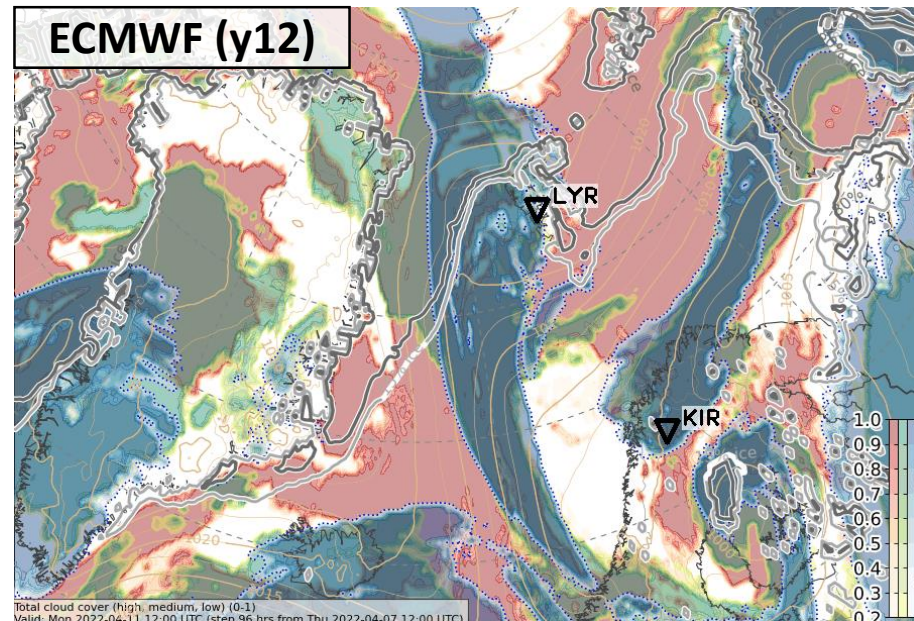
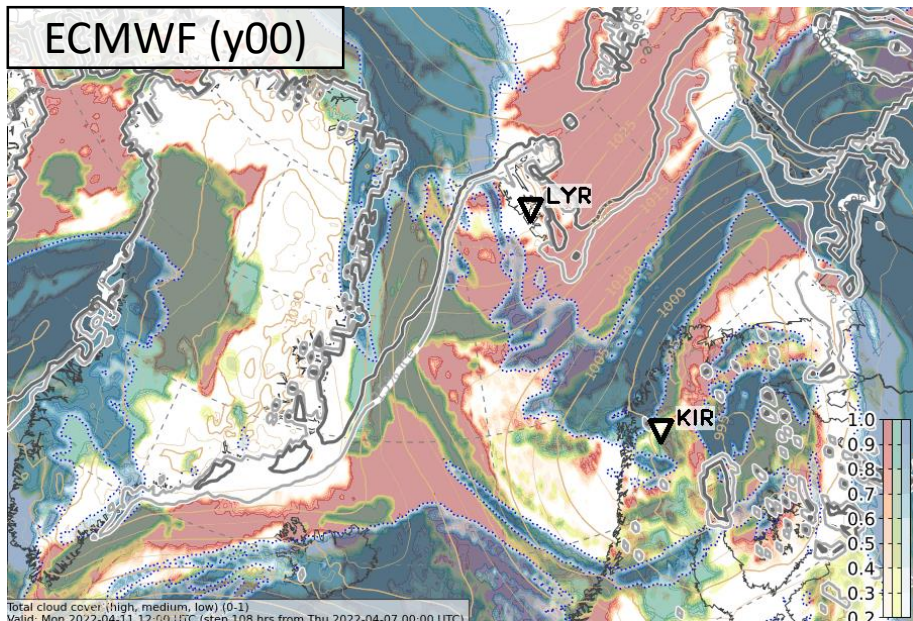


# Sun, Total Cloud Cover, 2022-04-10 12 UTC





# Mon, Total Cloud Cover, 2022-04-11 12 UTC



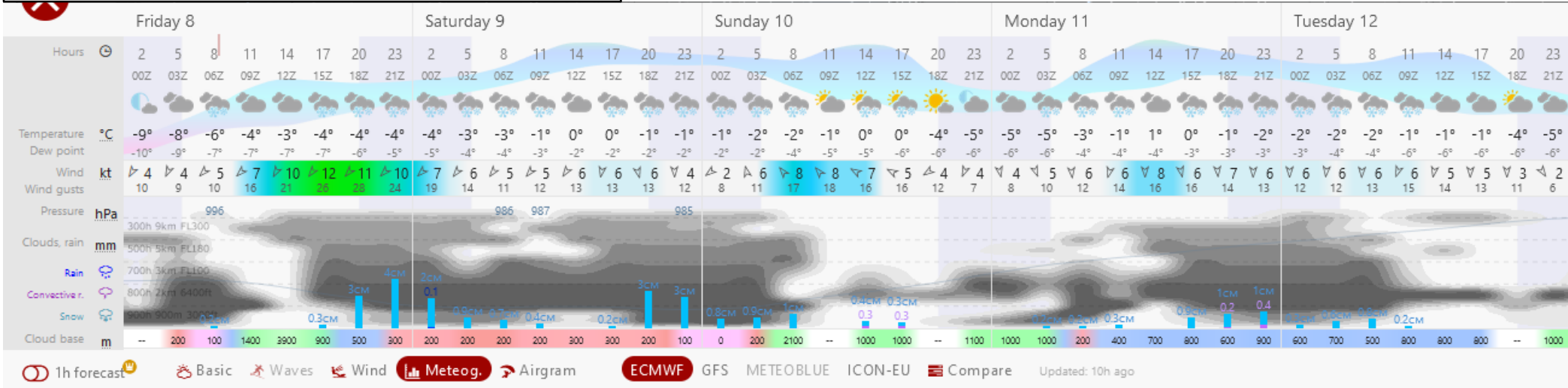


## **Airport meteograms & local weather at Svalbard**

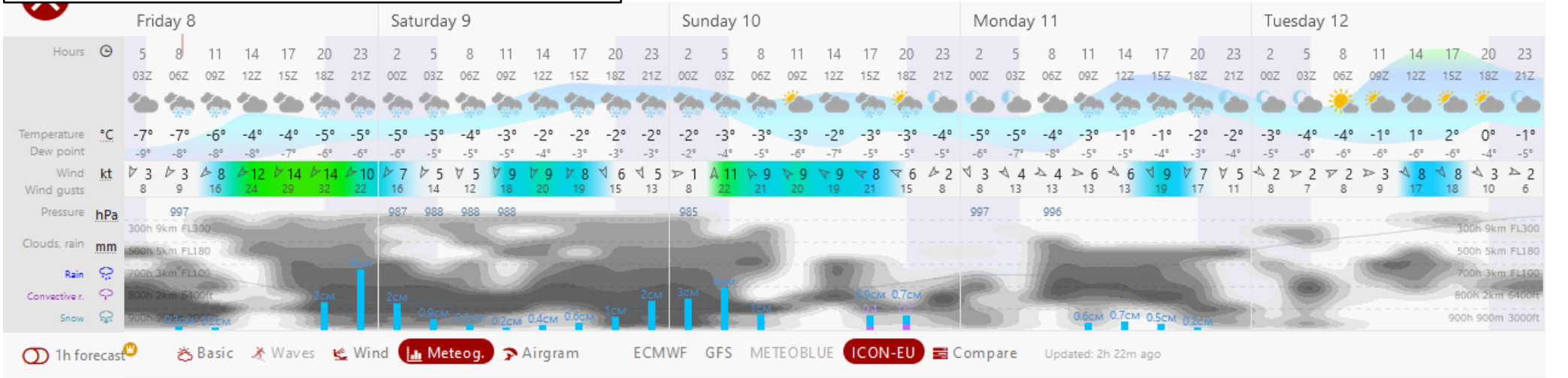


# Kiruna:

## ECWMF



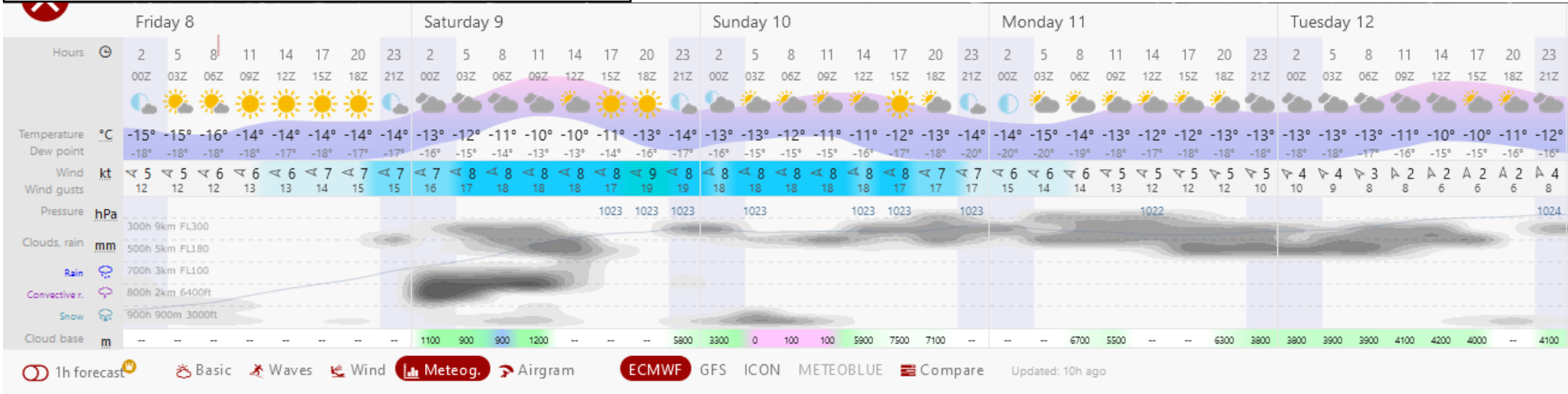
## ICON



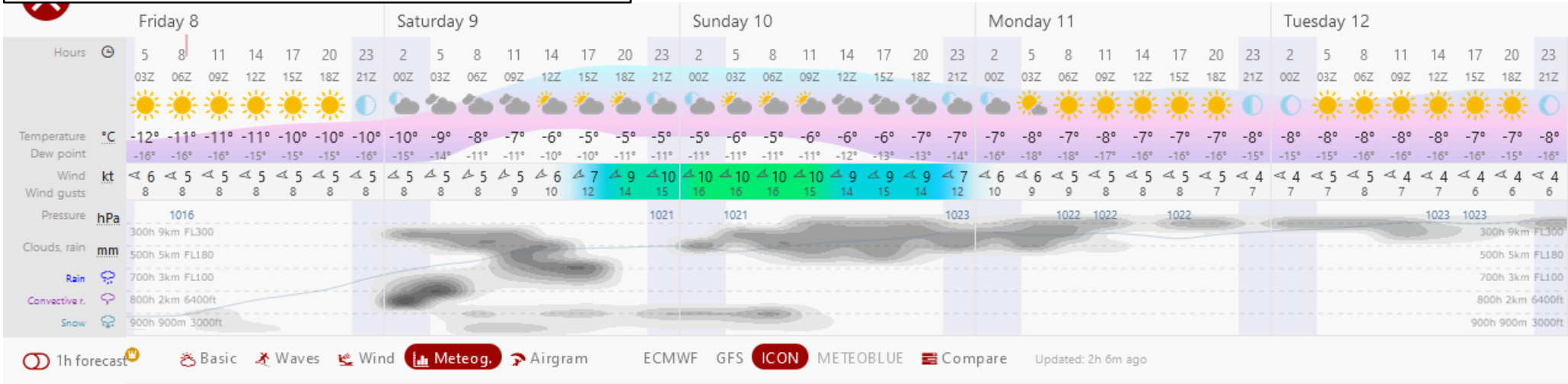


# Longyearbyen:

## ECWMF



## ICON





# Summary



## Summary: Weather Update 2022-04-08, 09:00 LT

- **Saturday, 2022-04-09:**
  - WAA with south-easterly flow over Barents Sea
  - Convergence in Fram Strait doesn't reach that far north
  - No mid-level clouds predicted over sea ice edge
- **Sunday, 2022-04-10:**
  - WAA in higher altitudes is reduced over sea ice
  - Extended cirrus fields over Fram Strait don't reach the sea ice
  - Polar low predicted by ECMWF
- **Monday, 2022-04-11:**
  - Meridionally oriented cloud band through Fram Strait
  - Uncertain development/position of low-pressure systems influencing weather conditions in Kiruna