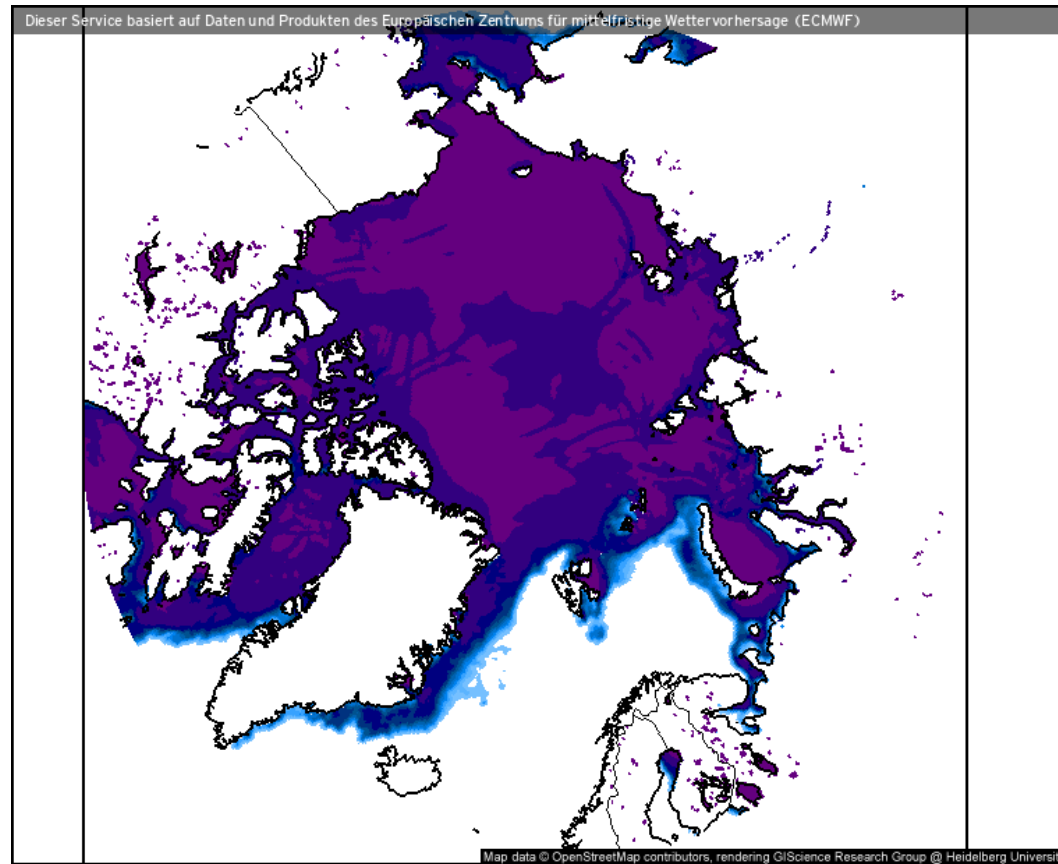


# Weather observations

## 08.04.2021

Tim | Benjamin

# Sea ice cover (08.04.2021 12 UTC)



- Still pronounced Whaler's Bay polynia
- No significant sea-ice change

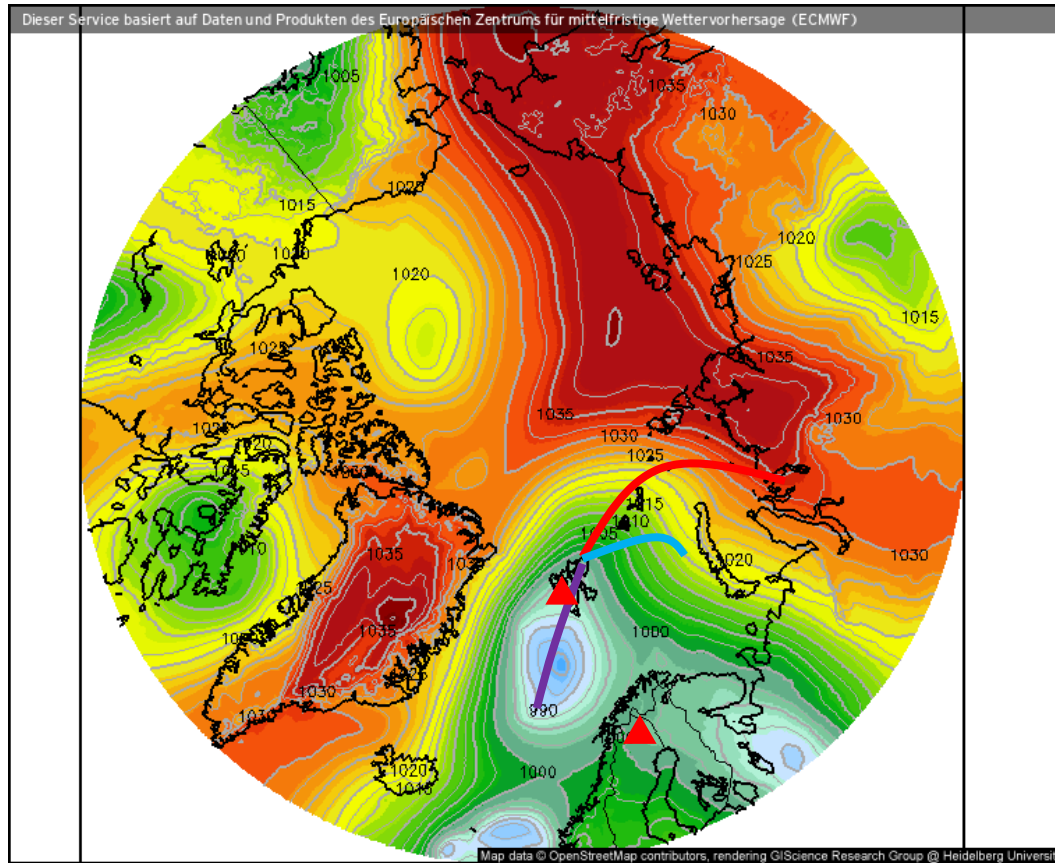
Eisbedeckung (Meere und Seen) (%)



Prognose für  
Do. 08.04.2021, 14:00 Uhr MESZ

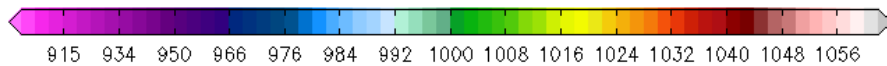
Nordpol  
ECMWF/Global Euro HD vom 08.04.2021/12Z

# Surface air pressure (08.04.2021 12 UTC)



- Low massively weakens
- Low shifts towards West
- High over Eastern Greenland strengthens

Luftdruck auf Meereshöhe (hPa)

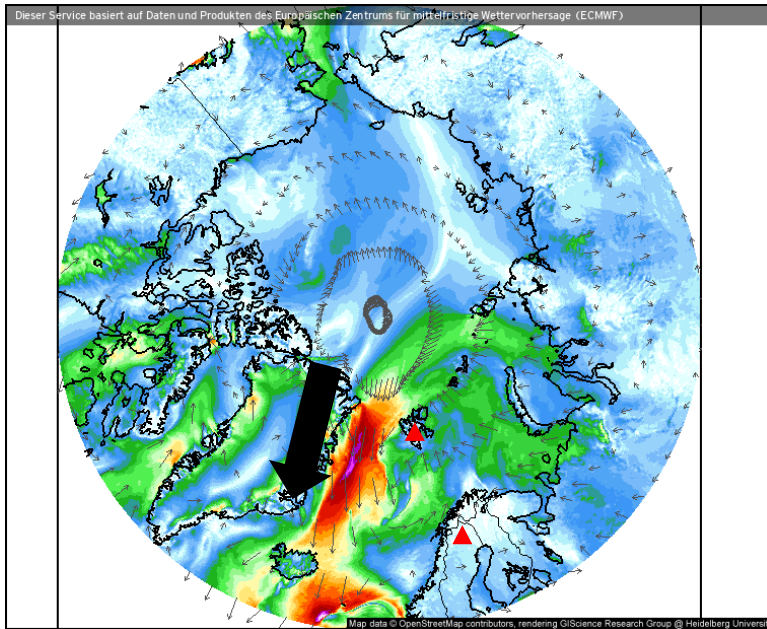


Prognose für  
Do. 08.04.2021, 14:00 Uhr MESZ

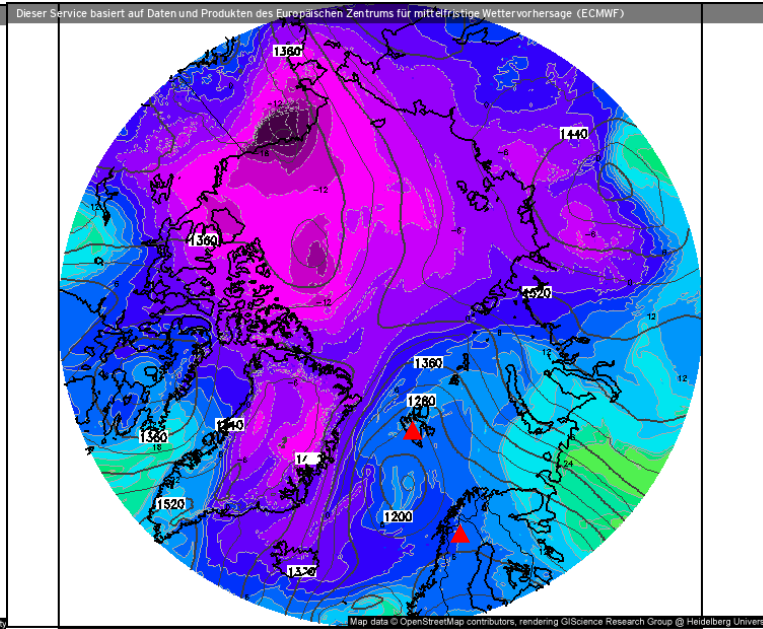
Nordpol  
ECMWF/Global Euro HD vom 08.04.2021/12Z

# Wind, $\theta_{eq}$ , z, IWV (08.04.2021 12 UTC)

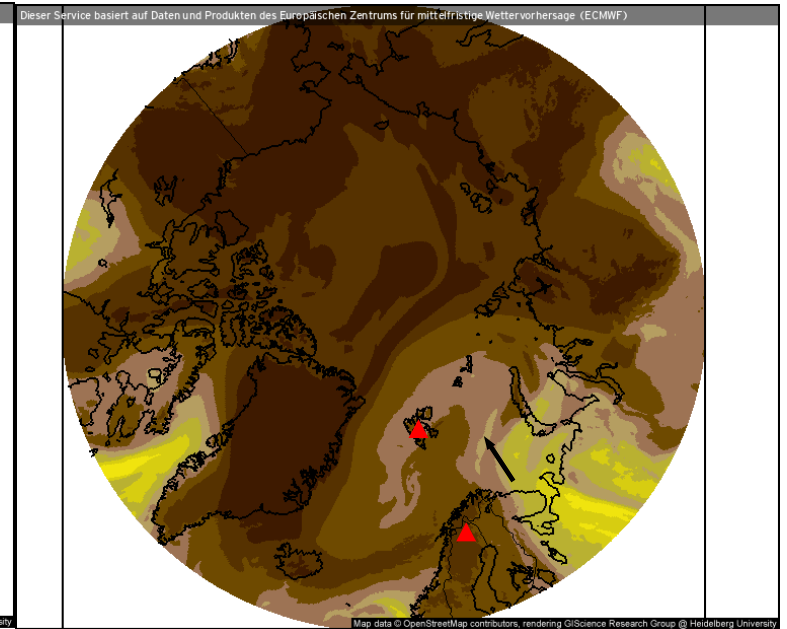
## Wind speed and streamlines



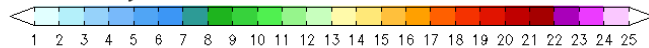
## Theta-E and geopotential (850 hPa)



## Precipitable water

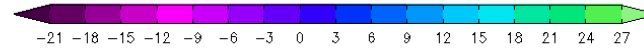


Windrichtung und Windmittel (m/s)



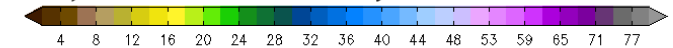
Prognose für Do, 08.04.2021, 14:00 Uhr MESZ

Theta-E und Geopot, 850hPa (°C)



Prognose für Do, 08.04.2021, 14:00 Uhr MESZ

Atmosphärisches Niederschlagswasser (mm)



Prognose für Do, 08.04.2021, 14:00 Uhr MESZ

Nordpol  
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ECMWF/Global Euro HD vom 08.04.2021/12Z

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WETTER HD

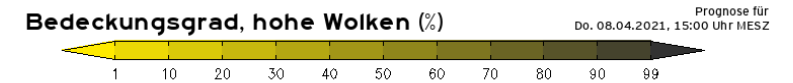
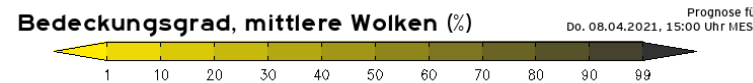
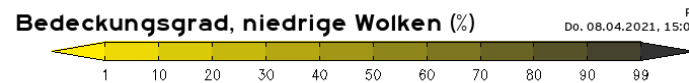
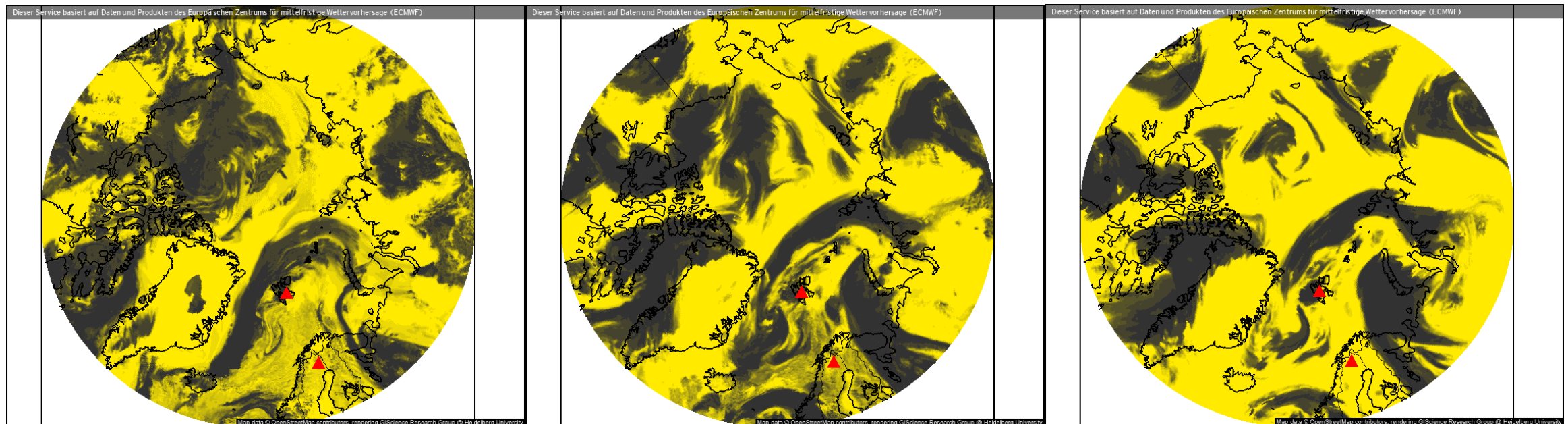
- Stronger winds over Fram Strait – shifted southwards
- No intrusion of moist air into Barent Sea – reaching Svalbard

# Clouds (08.04.2021 13 UTC)

## Low-level clouds

## Mid-level clouds

## High-level clouds



Nordpol  
ECMWF/Global Euro HD vom 08.04.2021/12z

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WETTER HD

Nordpol  
ECMWF/Global Euro HD vom 08.04.2021/12z

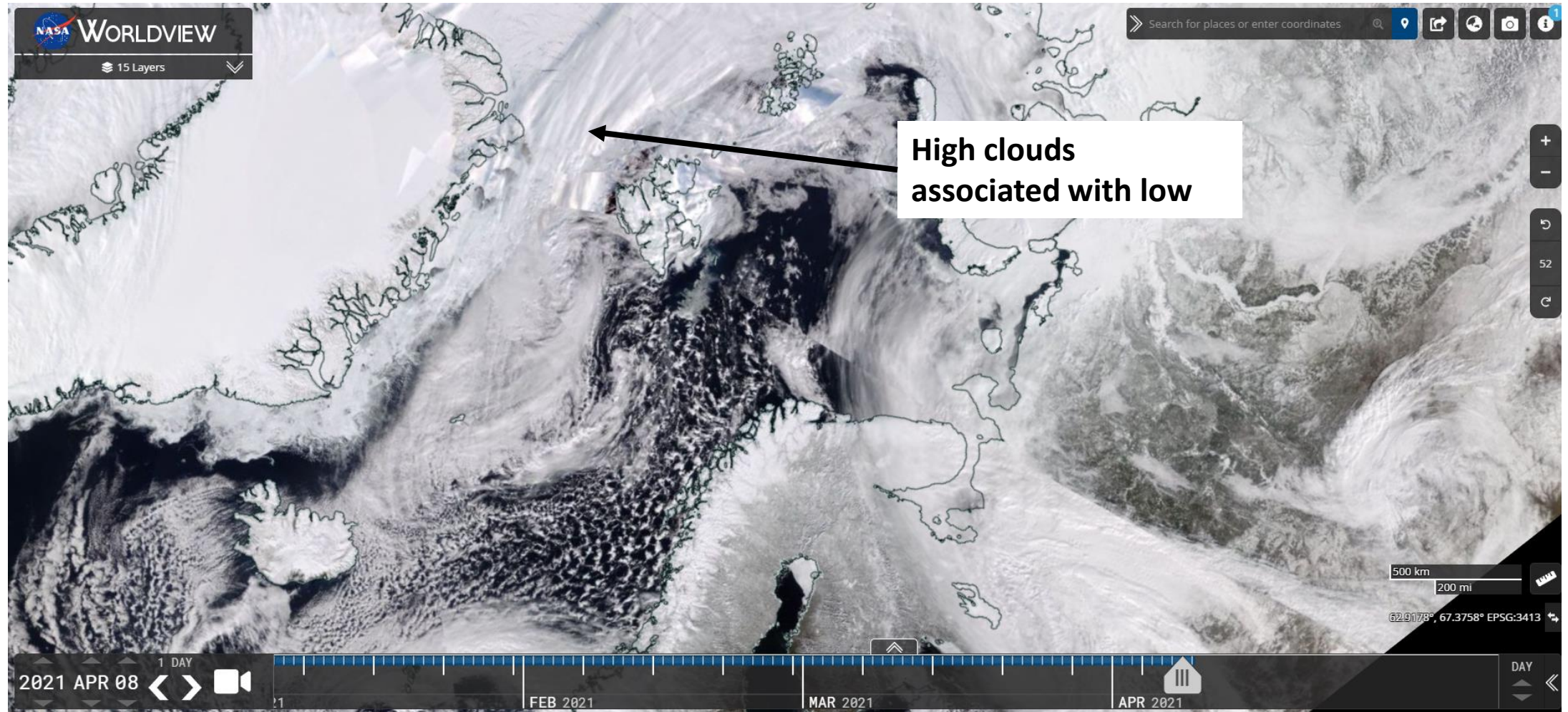
ECMWF kachelmannwetter.com  
WETTER HD

Nordpol  
ECMWF/Global Euro HD vom 08.04.2021/12z

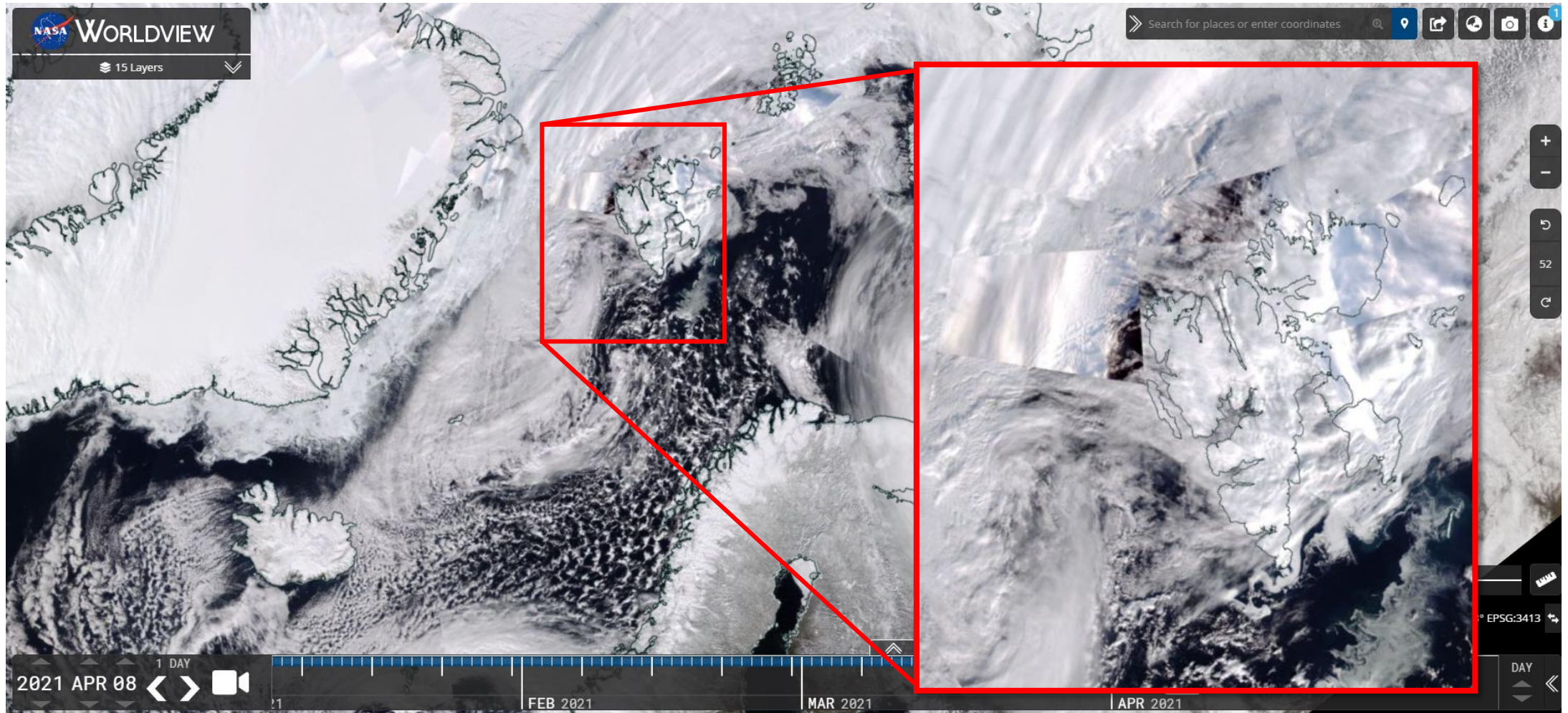
ECMWF kachelmannwetter.com  
WETTER HD

- Kiruna almost cloud-free
- Svalbard still partly cloudy

# VIIRS (NOAA-20) (08.04.2021)



# VIIRS (NOAA-20) (08.04.2021)



# Airport situation: Longyearbyen (08.04.2021)



- Mostly sufficient visibility
- Some low/mid-level clouds
- Probably suitable for flight

## Svalbard Airport. Longyear

Longyearbyen, Norway  
 latitude: 78-15N, longitude: 015-28E,  
 elevation: 2 m

### Current weather observation

The report was made **30 minutes ago**, at **11:50 UTC**

Wind **4 kt** from the **Northeast**, varying between **North and East**

Temperature **-1°C**

Humidity **80%**

Pressure **993 hPa**

Visibility **10 km or more**

**Few clouds** at a height of **1500 ft**  
**Broken clouds** at a height of **3000 ft**

**showers in vicinity**

Change units

**METAR:** ENSB 081150Z 04004KT 360V100 9999 VCSH FEW015 BKN030 M01/M04 Q0993 NOSIG RMK WIND 1400FT 04010KT

Time: 14:20 (12:20 UTC)

### Forecast

Forecast valid from 08 at 12 UTC to 09 at 12 UTC

Wind **8 kt** from the **East/Southeast**

Visibility **10 km or more**

**Few clouds** at a height of **1000 ft**  
**Scattered clouds** at a height of **3000 ft**

*Temporary*  
 from 08 at 12 UTC to 08 at 15 UTC

Visibility: **2000 m**

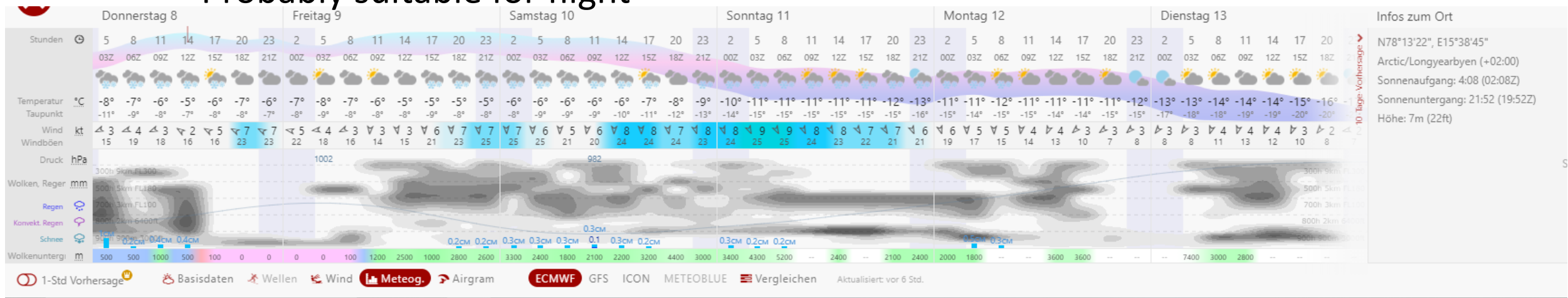
at a height of **800 ft**

**snow showers**

*Temporary*  
 from 08 at 16 UTC to 09 at 06 UTC

Wind **18 kt** from the **Southeast**

**TAF:** ENSB 0812/0912 12008KT 9999 FEW010 SCT030 TEMPO 0812/0815 2000 SHSN VV008 TEMPO 0816/0906 14018KT





# Airport situation: Kiruna (08.04.2021)

- Good visibility, almost no clouds
- Perfect flight conditions

**Kiruna Airport**  
 Kiruna, Sweden  
 latitude: 67-49N, longitude: 020-20E,  
 elevation: 452 m

**Current weather observation**  
 The report was made 30 minutes ago, at 11:50 UTC

Wind 5 kt from the Southwest  
 Temperature -1°C  
 Humidity 46%  
 Pressure 995 hPa  
 Visibility 10 km or more  
 no clouds below 1500 m and no cumulonimbus

[Change units](#)

**METAR:** ESNQ 081150Z 22005KT CAVOK M01/M11 Q0995

Time: 14:20 (12:20 UTC)

**Forecast**  
 The report was made 50 minutes ago, at 11:30 UTC

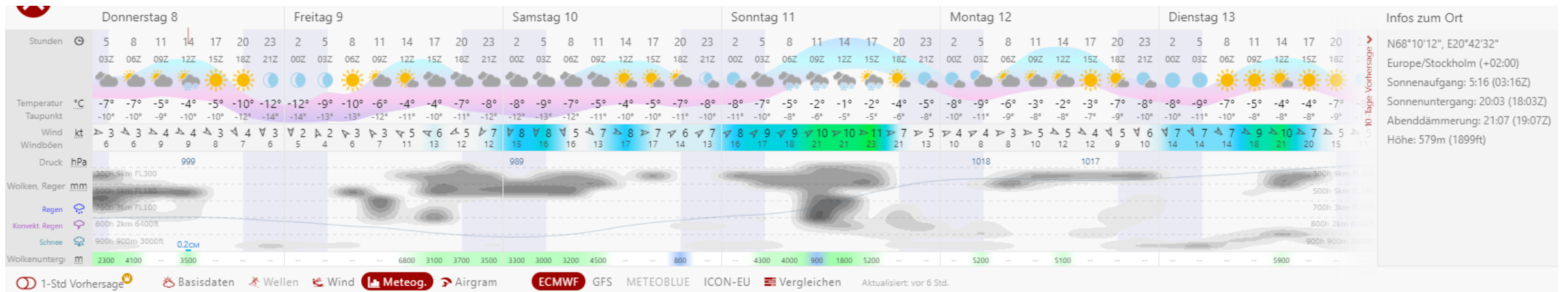
Forecast valid from 08 at 12 UTC to 08 at 20 UTC

Wind 5 kt from the West  
 Visibility 10 km or more  
 no clouds below 1500 m and no cumulonimbus

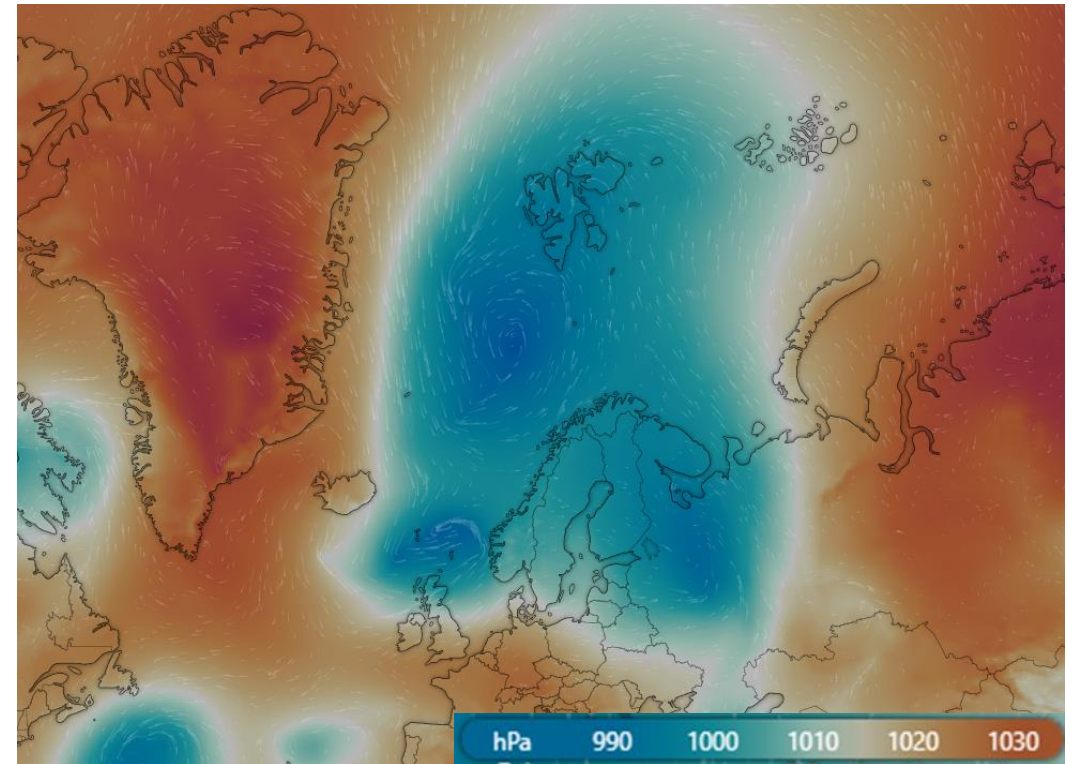
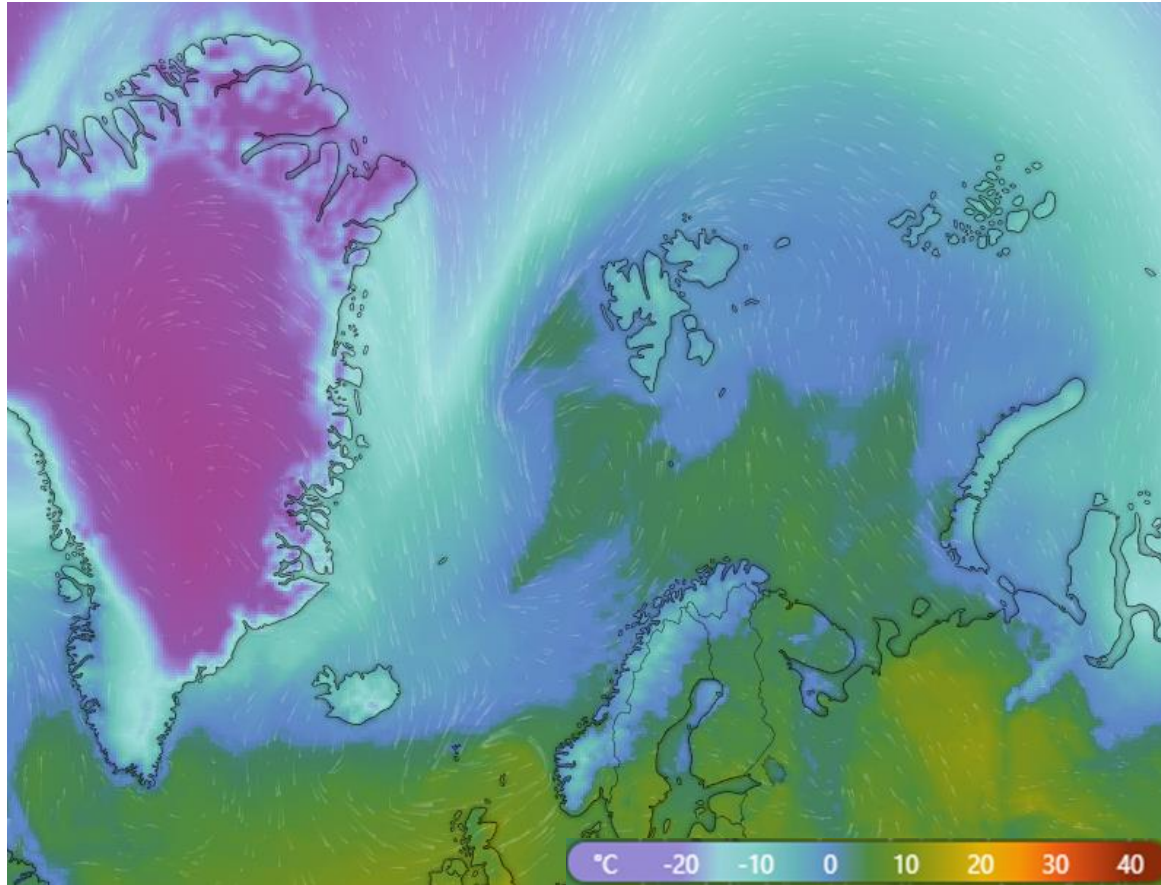
Probability 40%  
 from 08 at 12 UTC to 08 at 16 UTC

Scattered clouds at a height of 4000 ft,  
 Towering cumulus.

TAF: ESNQ 081130Z 0812/0820 26005KT CAVOK PROB40 0812/0816 SCT040TCU



# Windy surface temperature/pressure (08.04.2021)



## Summary

- Svalbard under weakened influence by decaying low (some clouds)