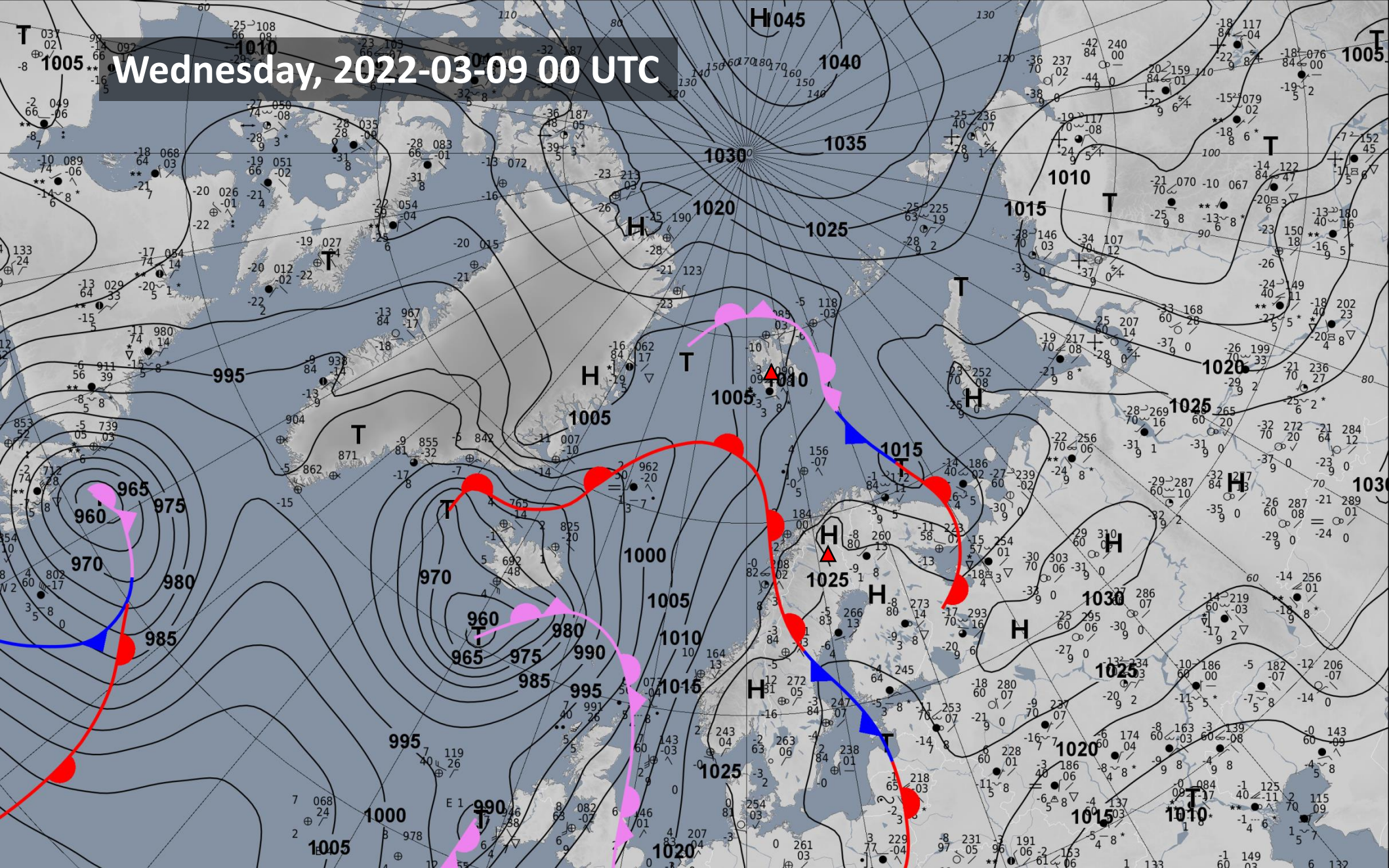


Weather briefing HALO-(AC)³

Wednesday, 2022-03-09 17:00 LT

Surface Analysis
2022-03-09 00 UTC
DWD

Wednesday, 2022-03-09 00 UTC



Circulation pattern development

2022-03-09 00 UTC: 00 – 108h

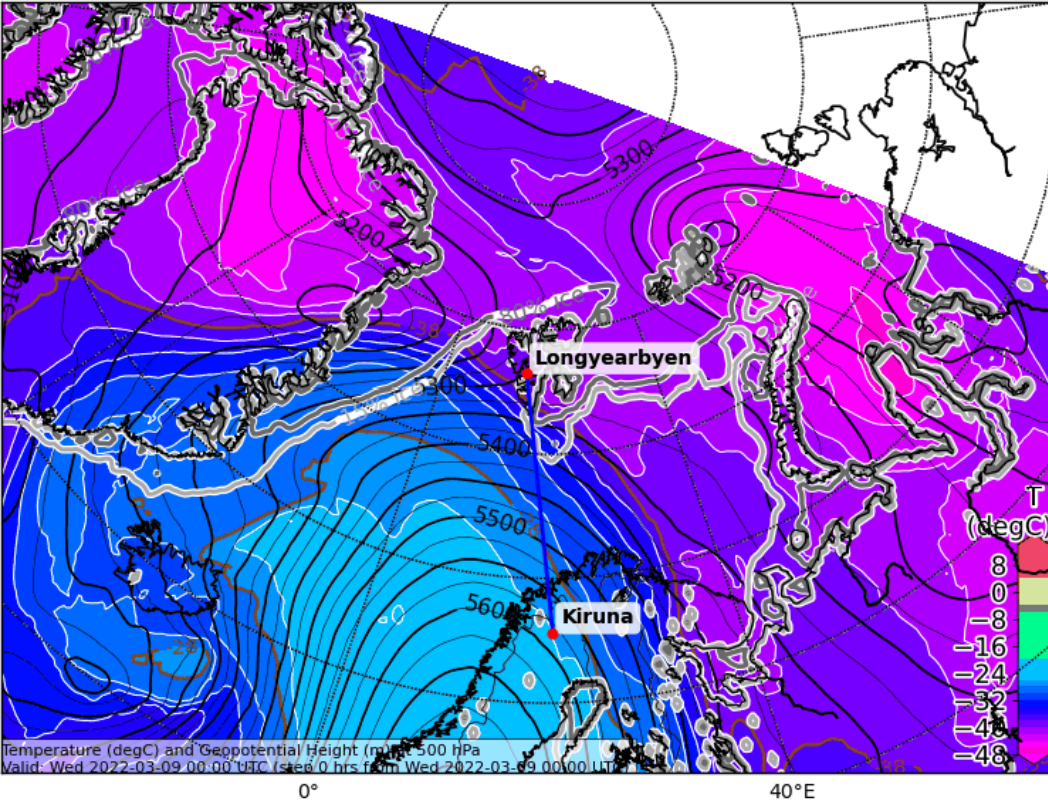
500 hPa Geopot & T

Sea level pressure

Wednesday, 2022-03-09 00 UTC (+00h)

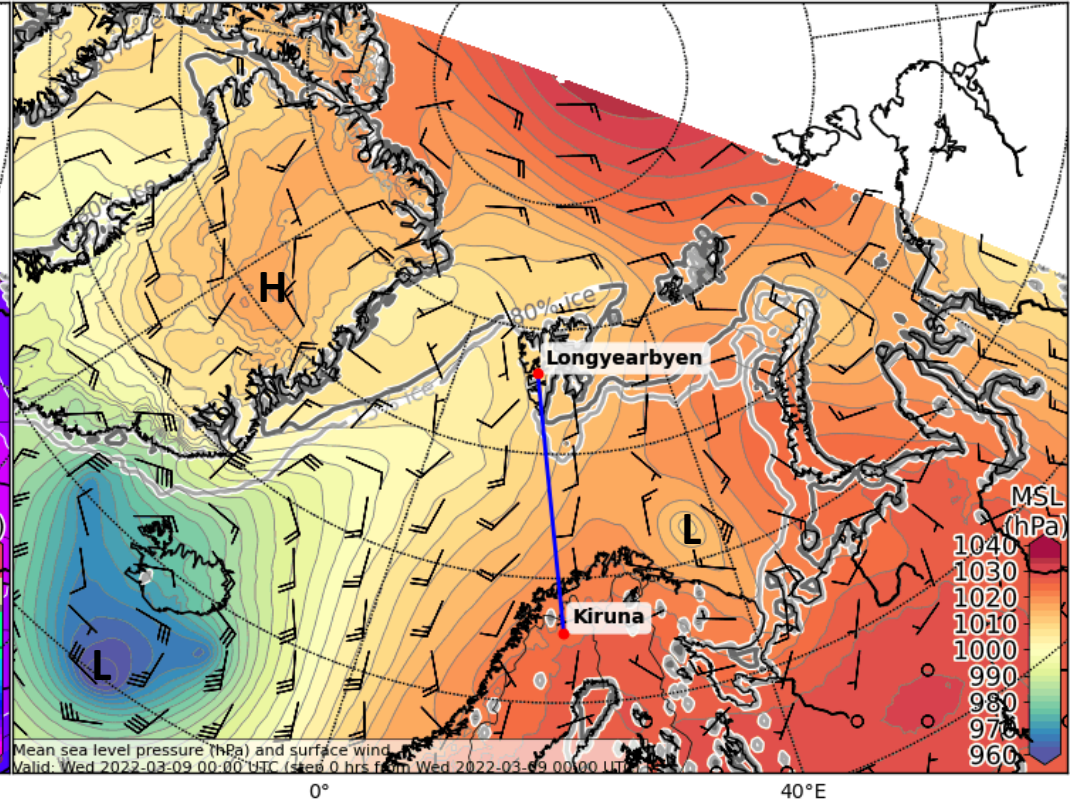
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-09T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

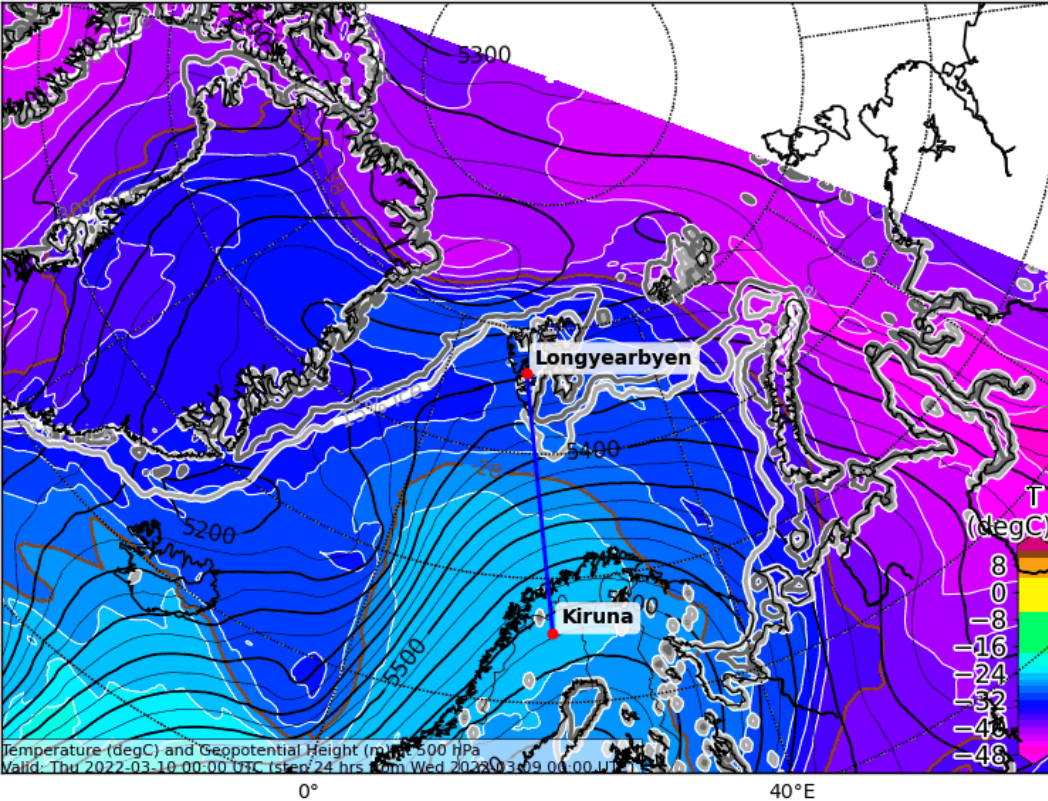
Mean Sea Level Pressure (hPa)
Valid: 2022-03-09T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Thursday, 2022-03-10 00 UTC (+24h)

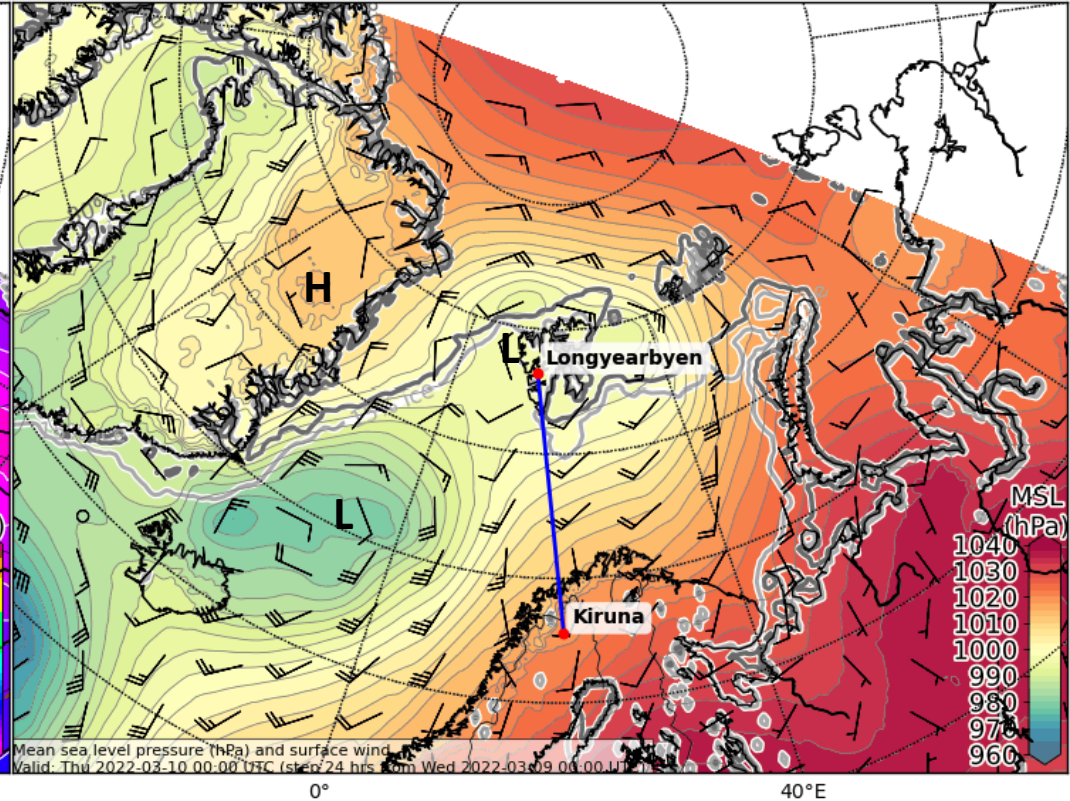
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-10T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

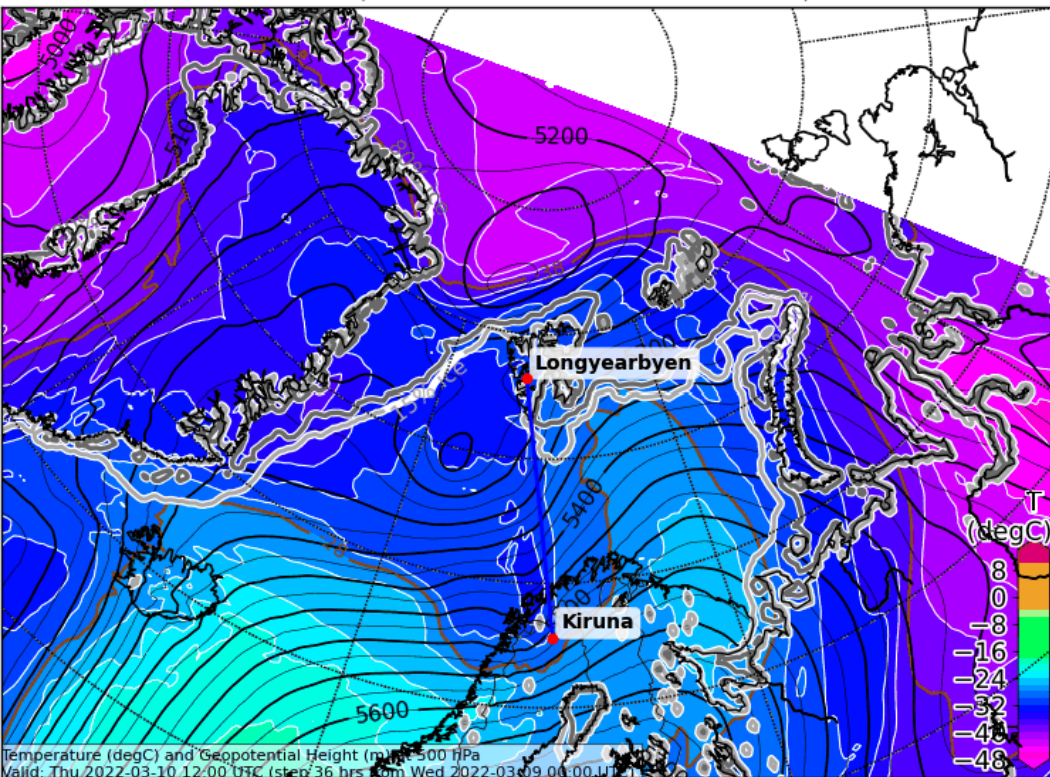
Mean Sea Level Pressure (hPa)
Valid: 2022-03-10T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Thursday, 2022-03-10 12 UTC (+36h)

500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-10T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



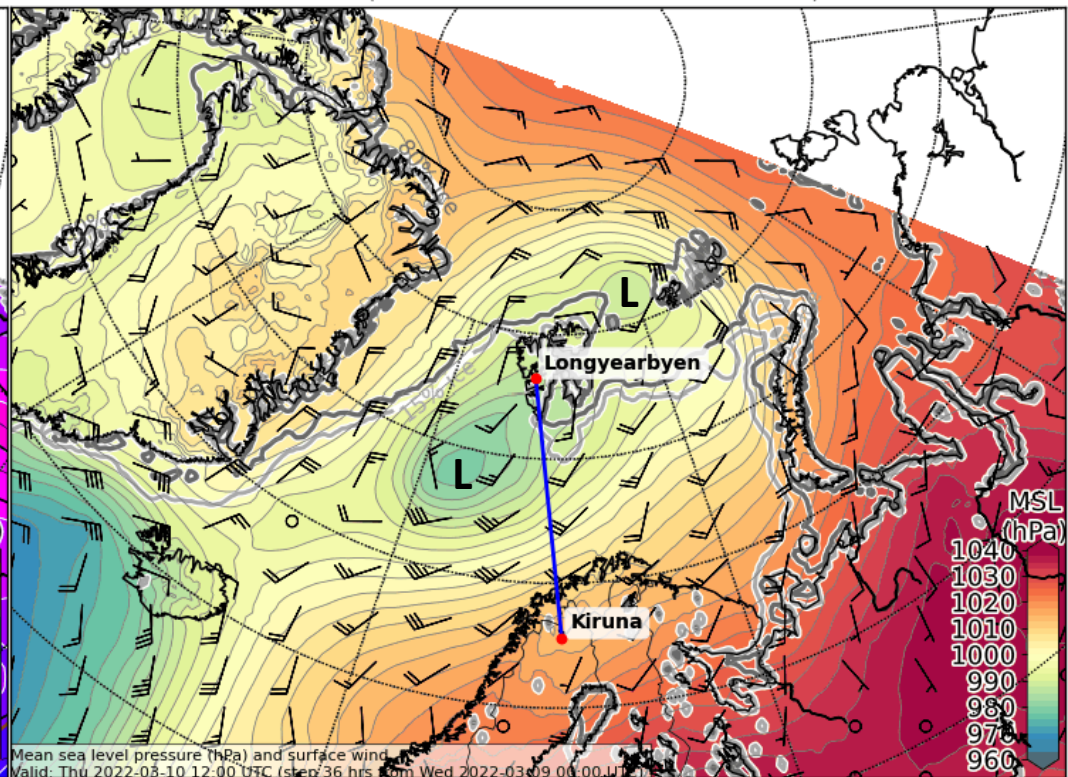
Temperature (degC) and Geopotential Height (m) at 500 hPa
Valid: Thu 2022-03-10 12:00 UTC (step 36 hrs from Wed 2022-03-09 00:00 UTC)

0°

40°E

Sea level pressure

Mean Sea Level Pressure (hPa)
Valid: 2022-03-10T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Mean sea level pressure (hPa) and surface wind
Valid: Thu 2022-03-10 12:00 UTC (step 36 hrs from Wed 2022-03-09 00:00 UTC)

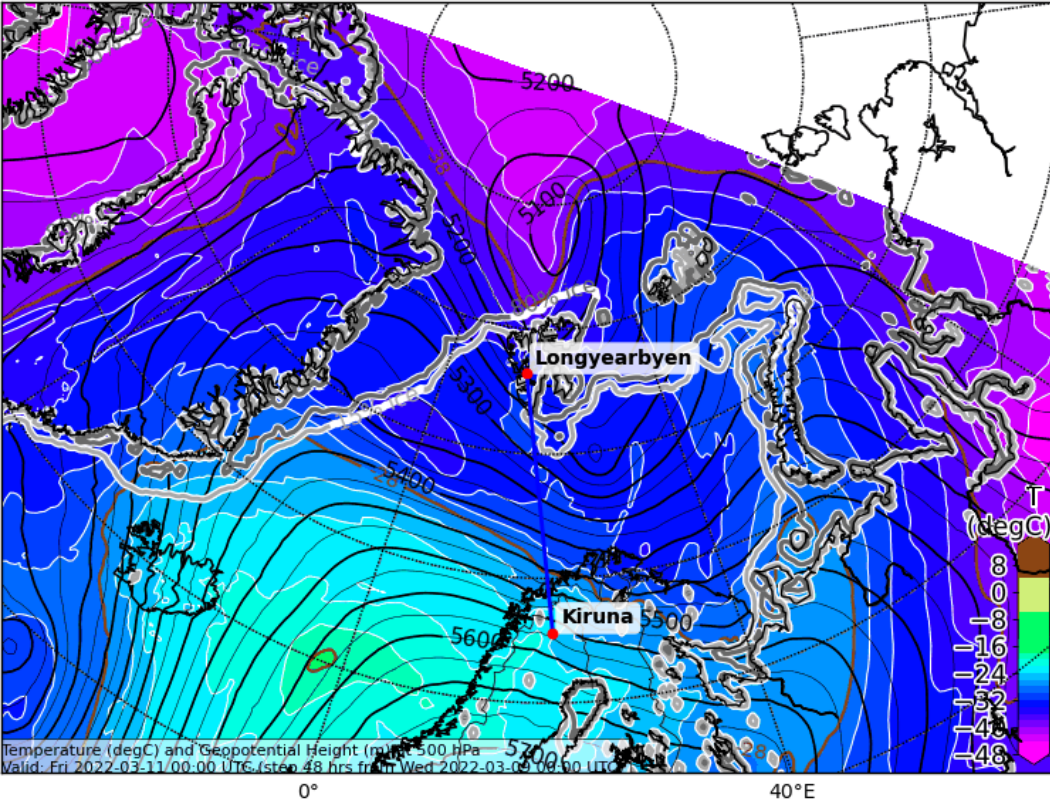
0°

40°E

Friday, 2022-03-11 00 UTC (+48h)

500 hPa Geopot & T

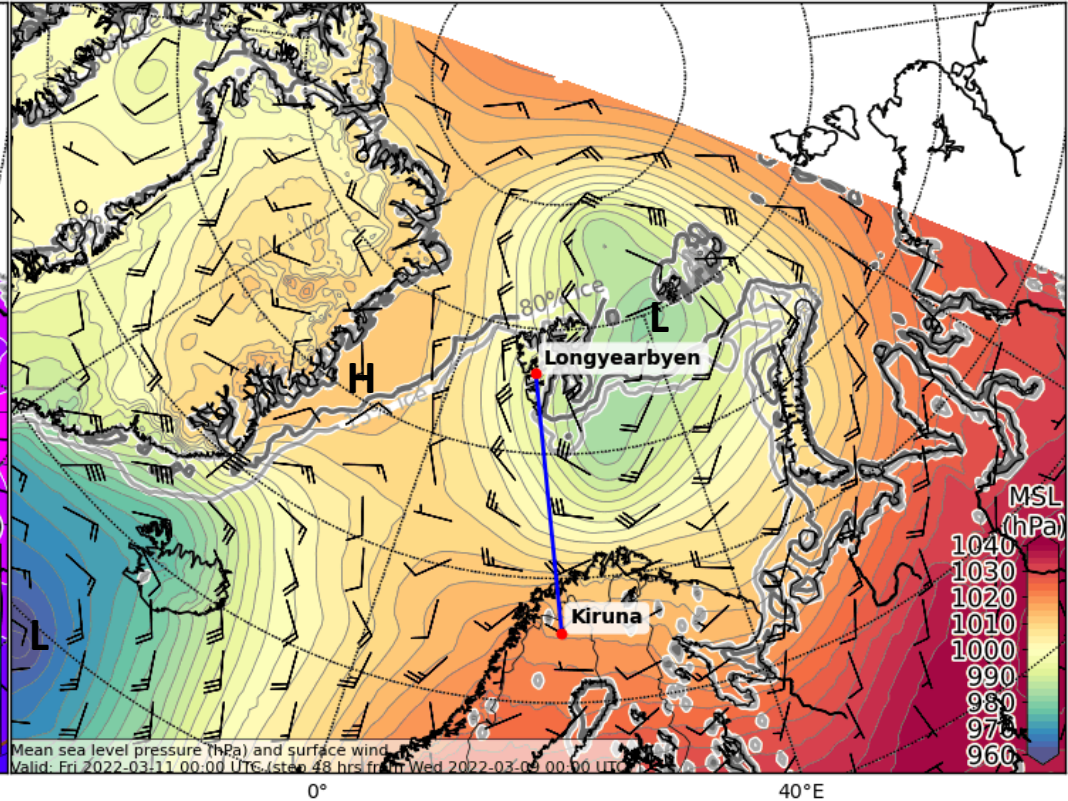
Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-11T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Temperature (degC) and Geopotential Height (m) at 500.0 hPa
Valid: Fri 2022-03-11 00:00 UTC (step 48 hrs from Wed 2022-03-09 00:00 UTC)

Sea level pressure

Mean Sea Level Pressure (hPa)
Valid: 2022-03-11T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)

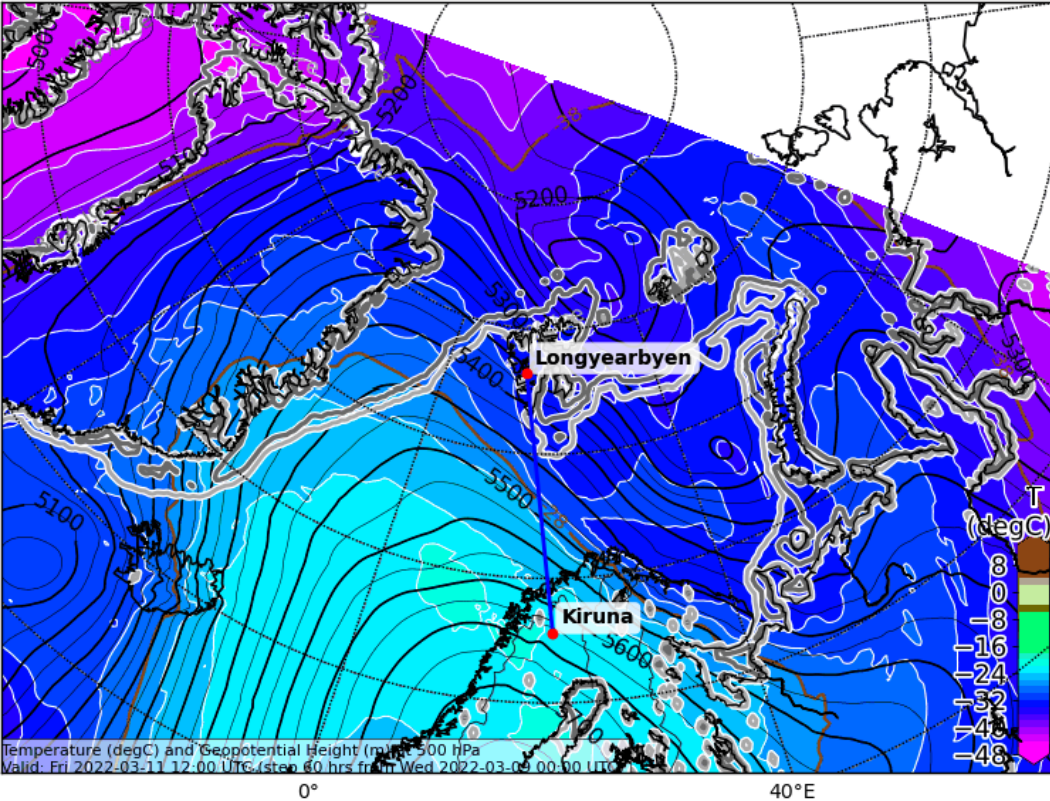


Mean sea level pressure (hPa) and surface wind
Valid: Fri 2022-03-11 00:00 UTC (step 48 hrs from Wed 2022-03-09 00:00 UTC)

Friday, 2022-03-11 12 UTC (+60h)

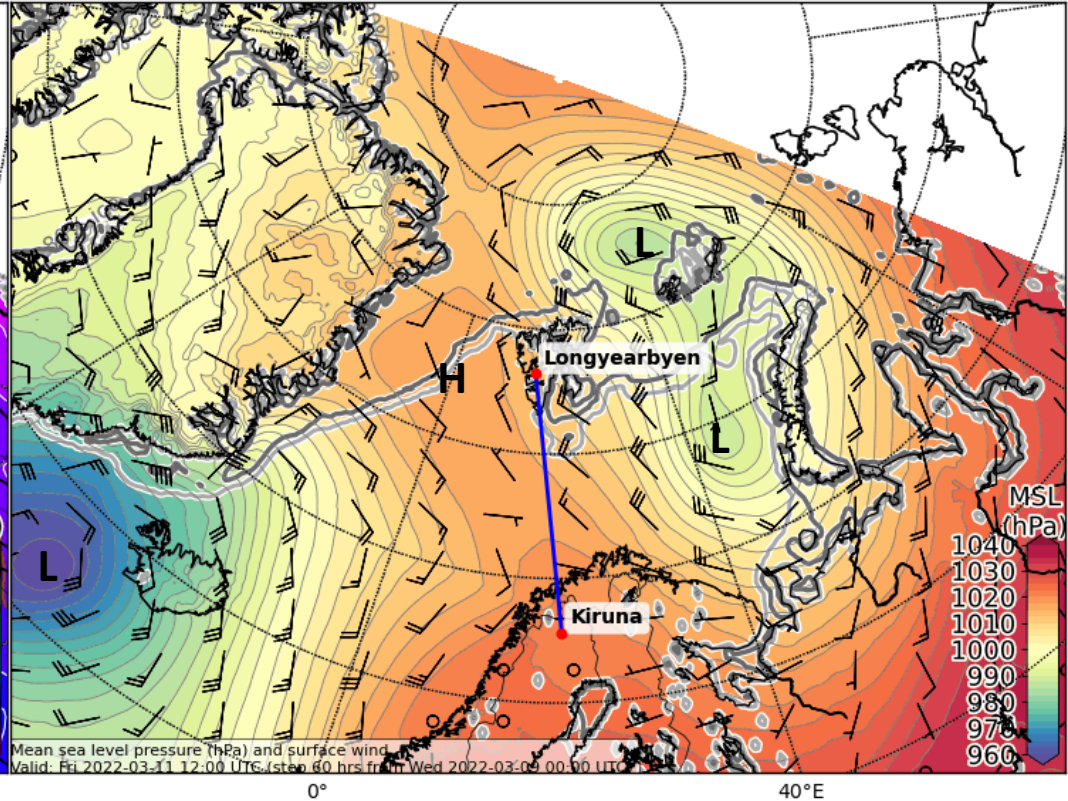
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-11T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

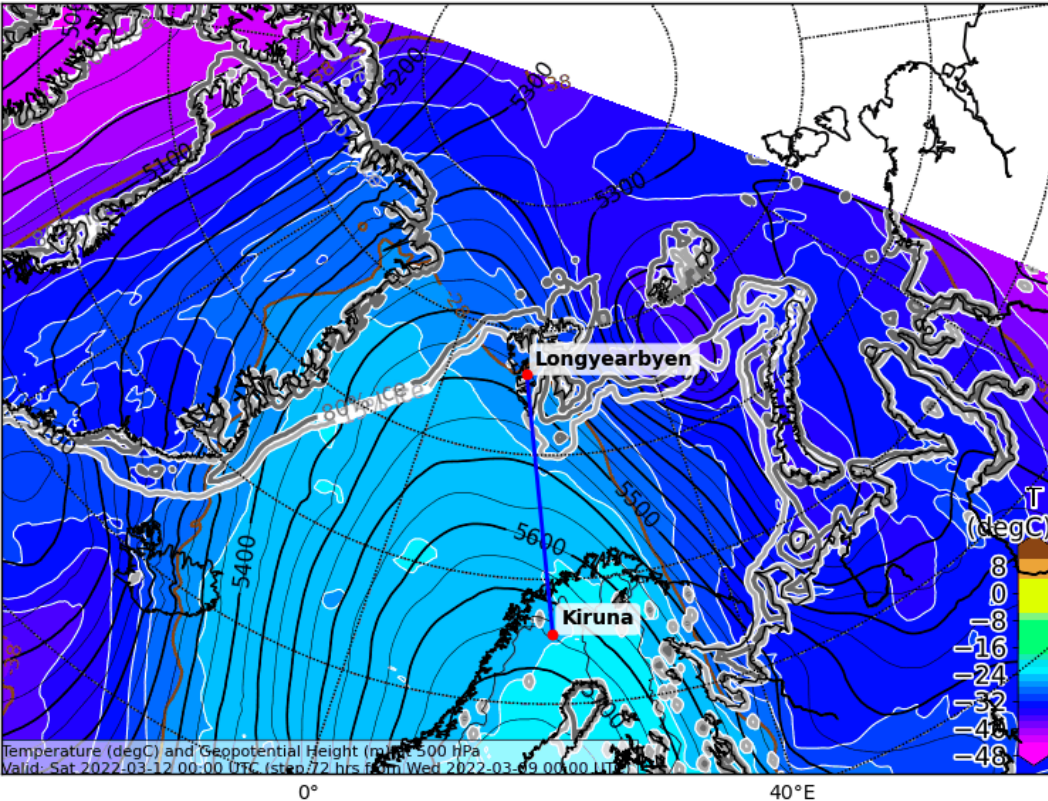
Mean Sea Level Pressure (hPa)
Valid: 2022-03-11T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Saturday, 2022-03-12 00 UTC (+72h)

500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-12T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



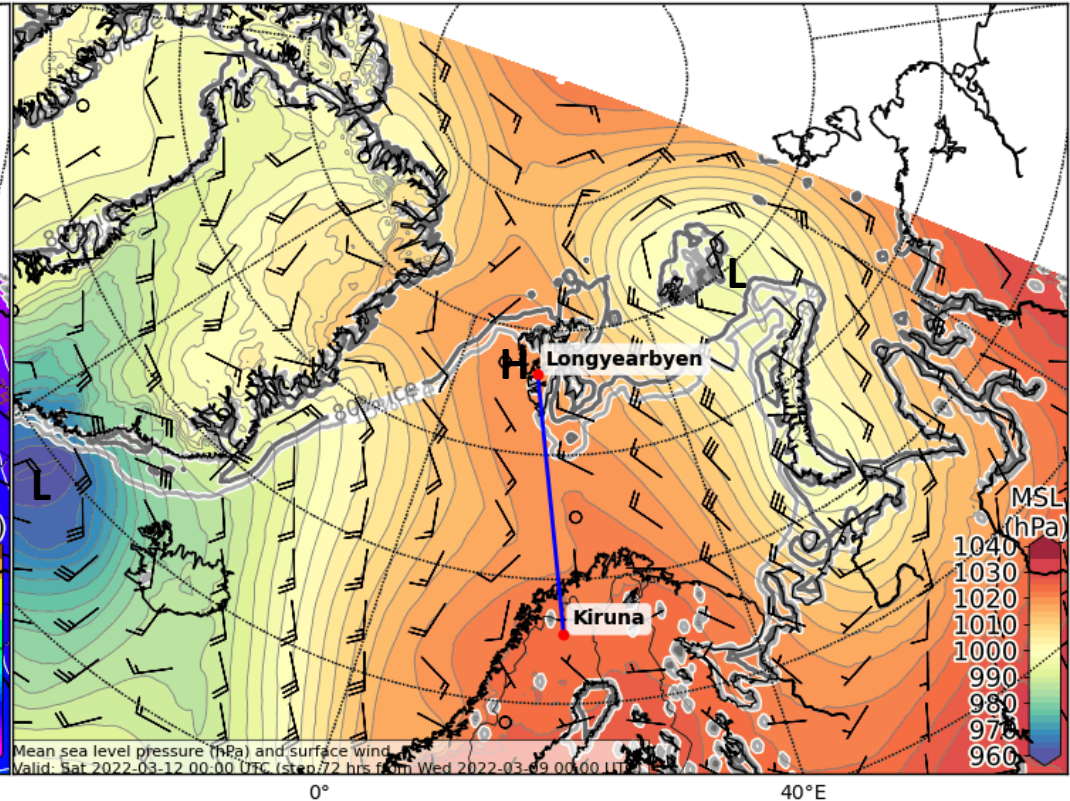
Temperature (degC) and Geopotential Height (m) at 500 hPa
Valid: Sat 2022-03-12 00:00 UTC (step 72 hrs from Wed 2022-03-09 00:00 UTC)

0°

40°E

Sea level pressure

Mean Sea Level Pressure (hPa)
Valid: 2022-03-12T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Mean sea level pressure (hPa) and surface wind
Valid: Sat 2022-03-12 00:00 UTC (step 72 hrs from Wed 2022-03-09 00:00 UTC)

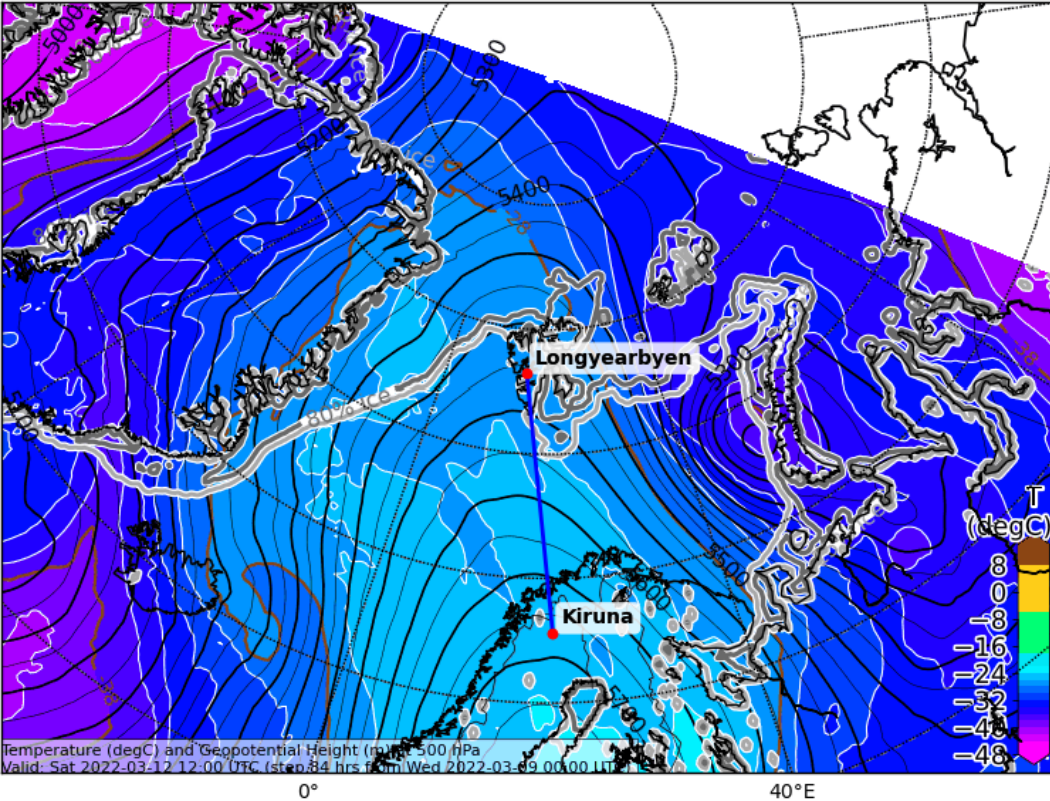
0°

40°E

Saturday, 2022-03-12 12 UTC (+84h)

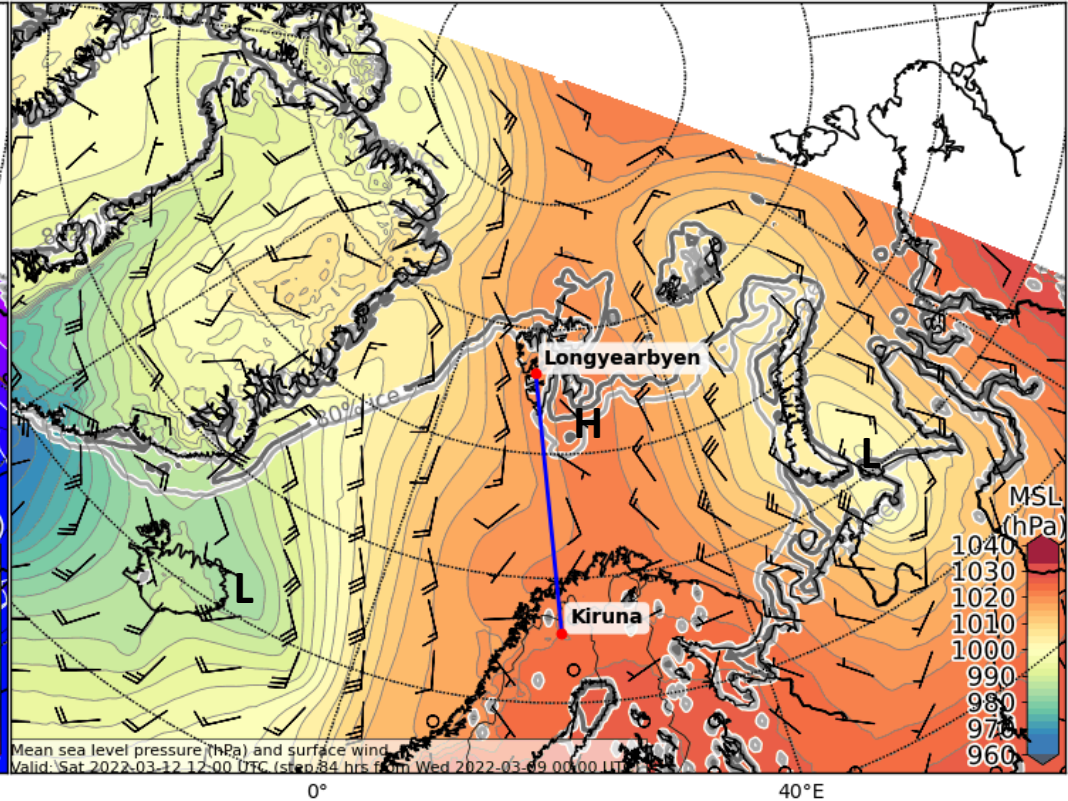
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-12T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

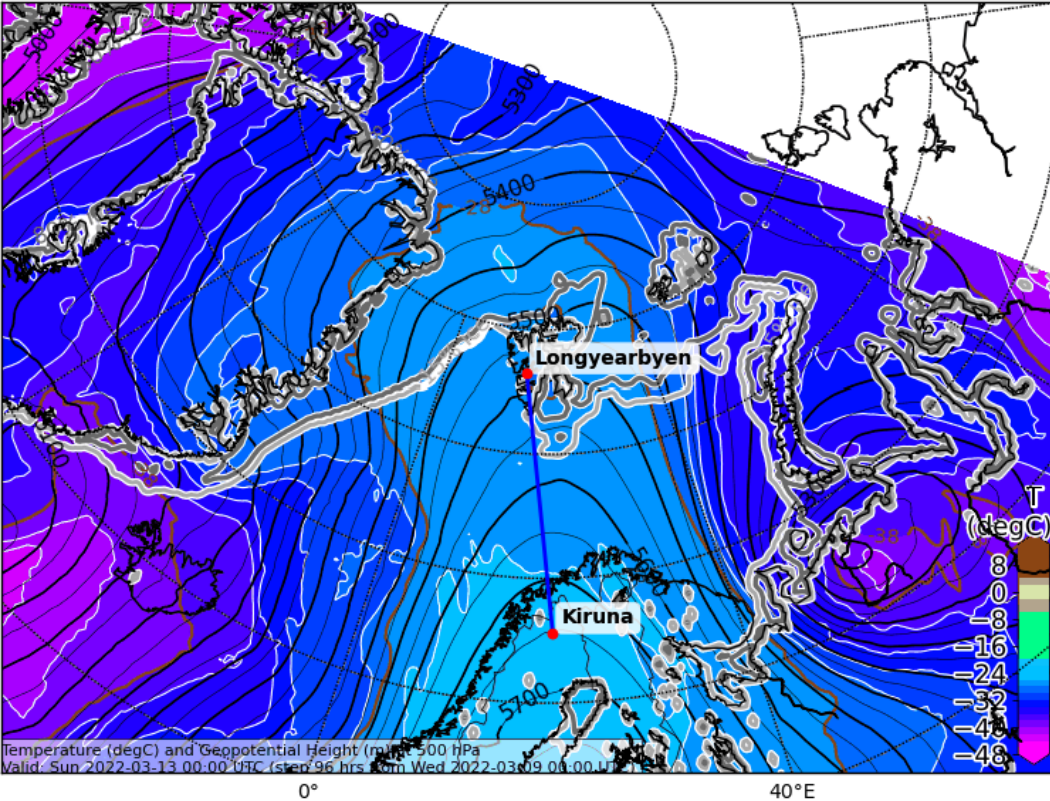
Mean Sea Level Pressure (hPa)
Valid: 2022-03-12T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sunday, 2022-03-13 00 UTC (+96h)

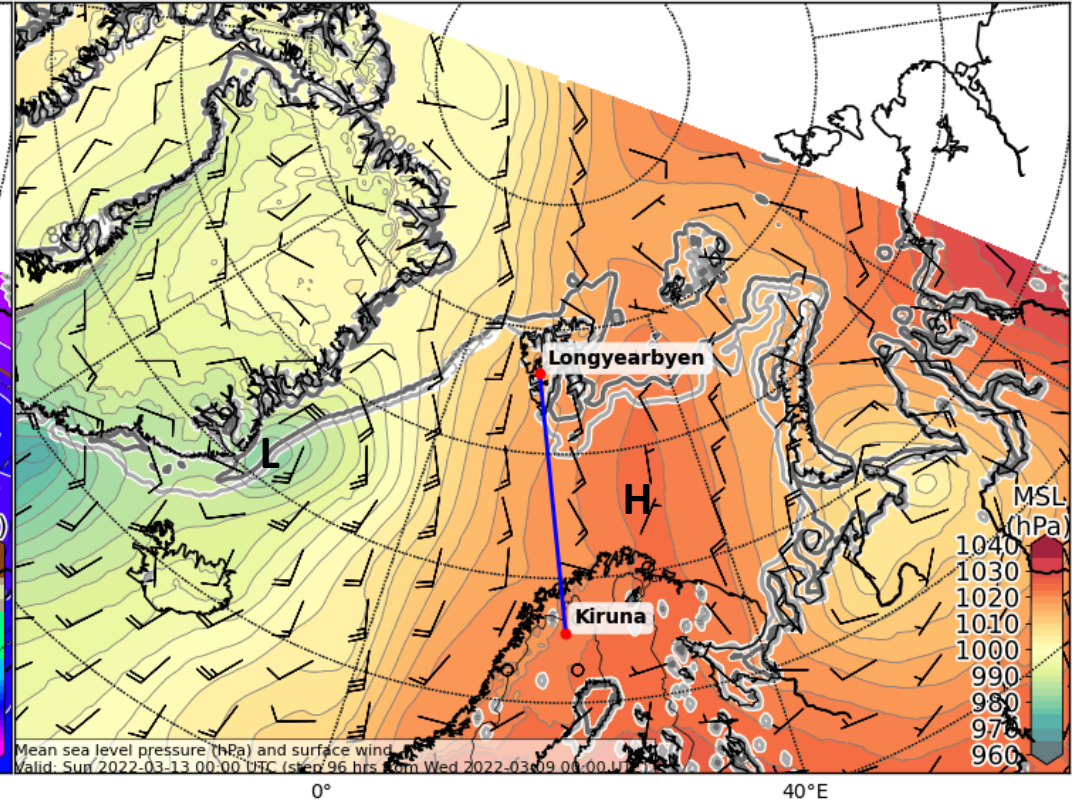
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-13T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

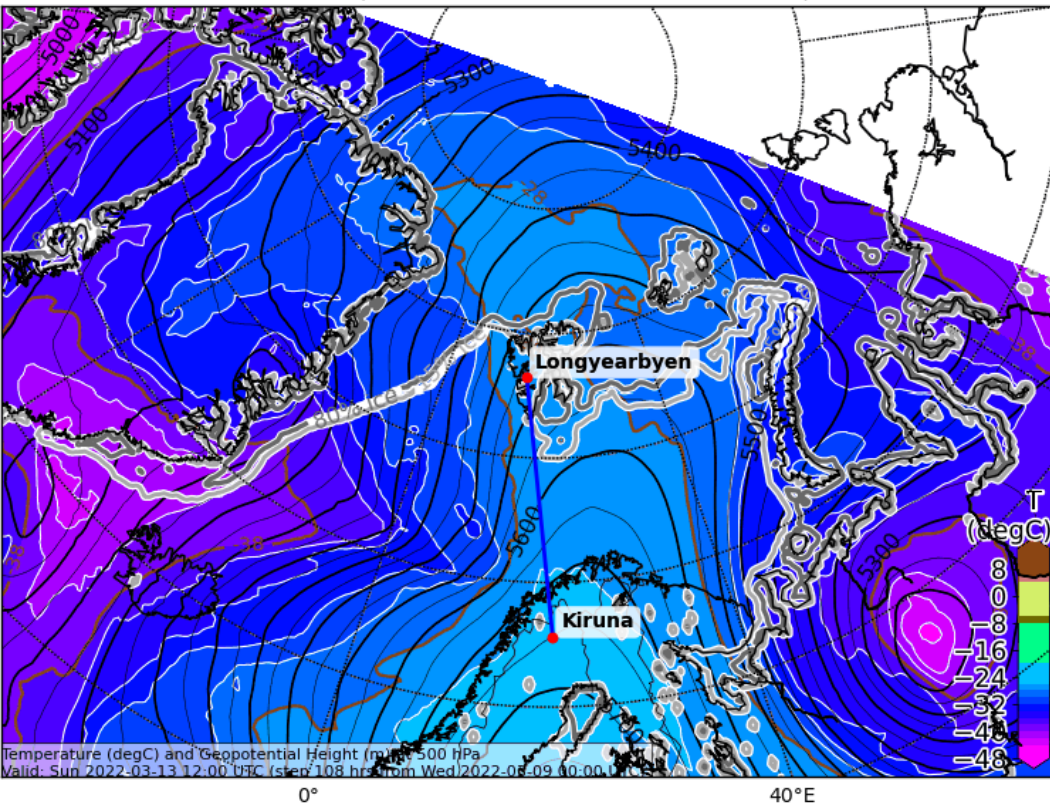
Mean Sea Level Pressure (hPa)
Valid: 2022-03-13T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sunday, 2022-03-13 12 UTC (+108h)

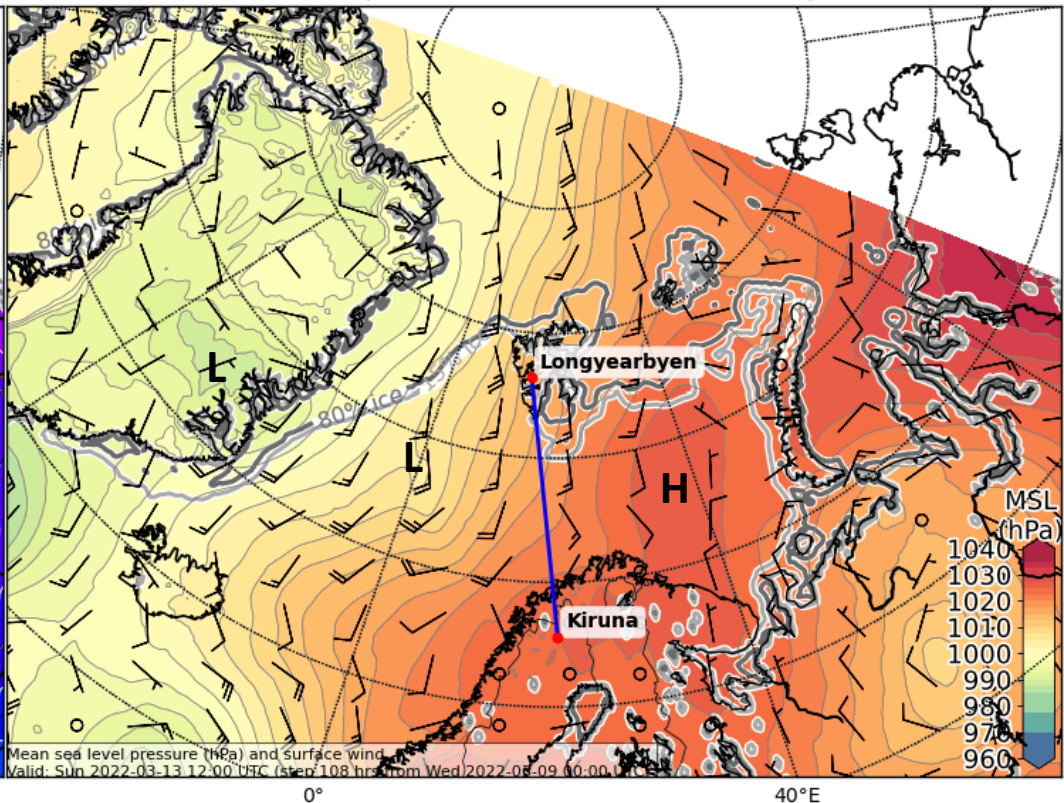
500 hPa Geopot & T

Temperature (degC) and Geopotential Height (m) at 500.0 (hPa)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sea level pressure

Mean Sea Level Pressure (hPa)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Surface wind development
2022-03-09 00 UTC: 36 – 108h
ECMWF

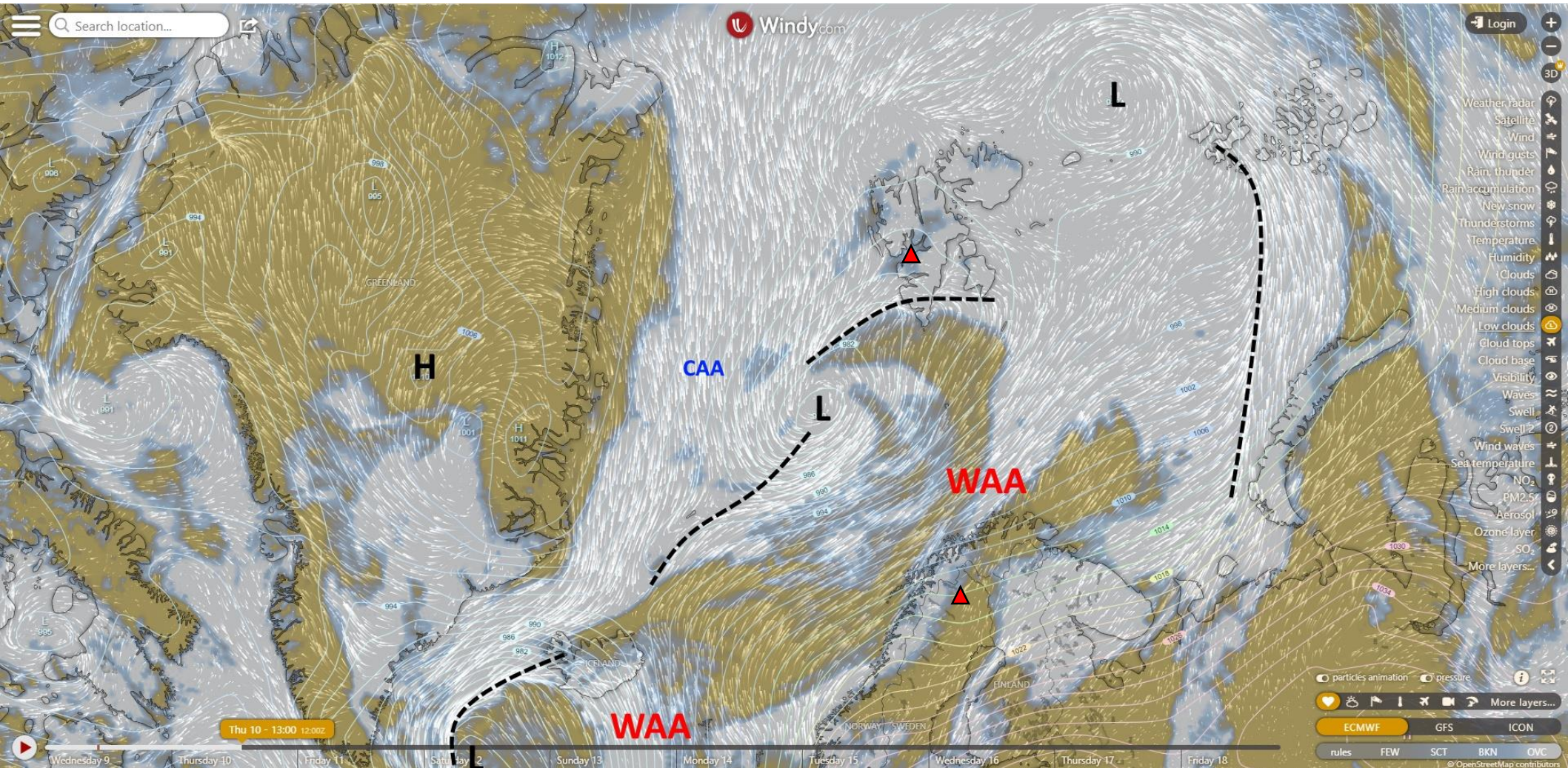
L: Low

H: High

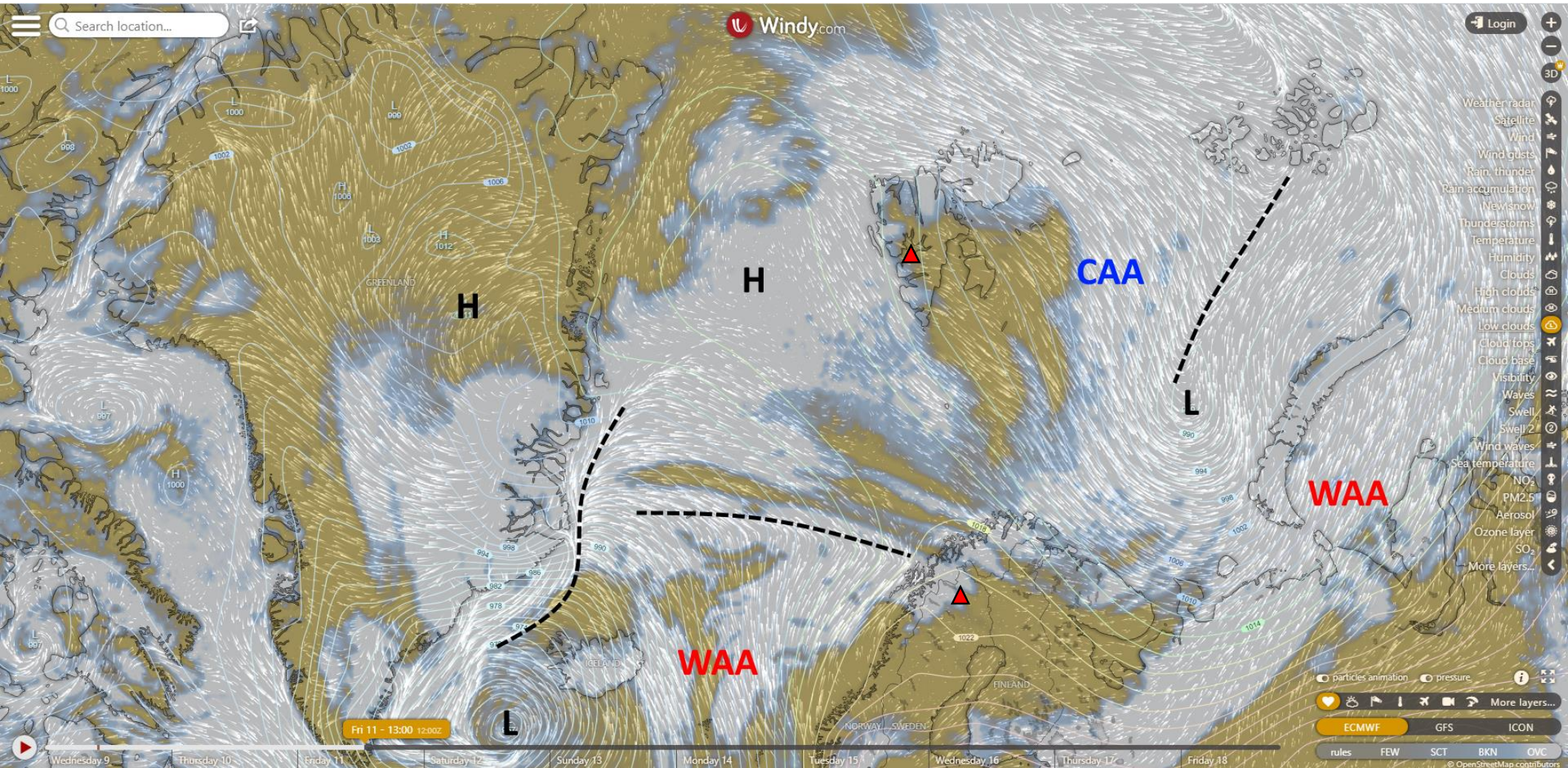
CAA: Cold Air Advection

WAA: Warm Air Advection

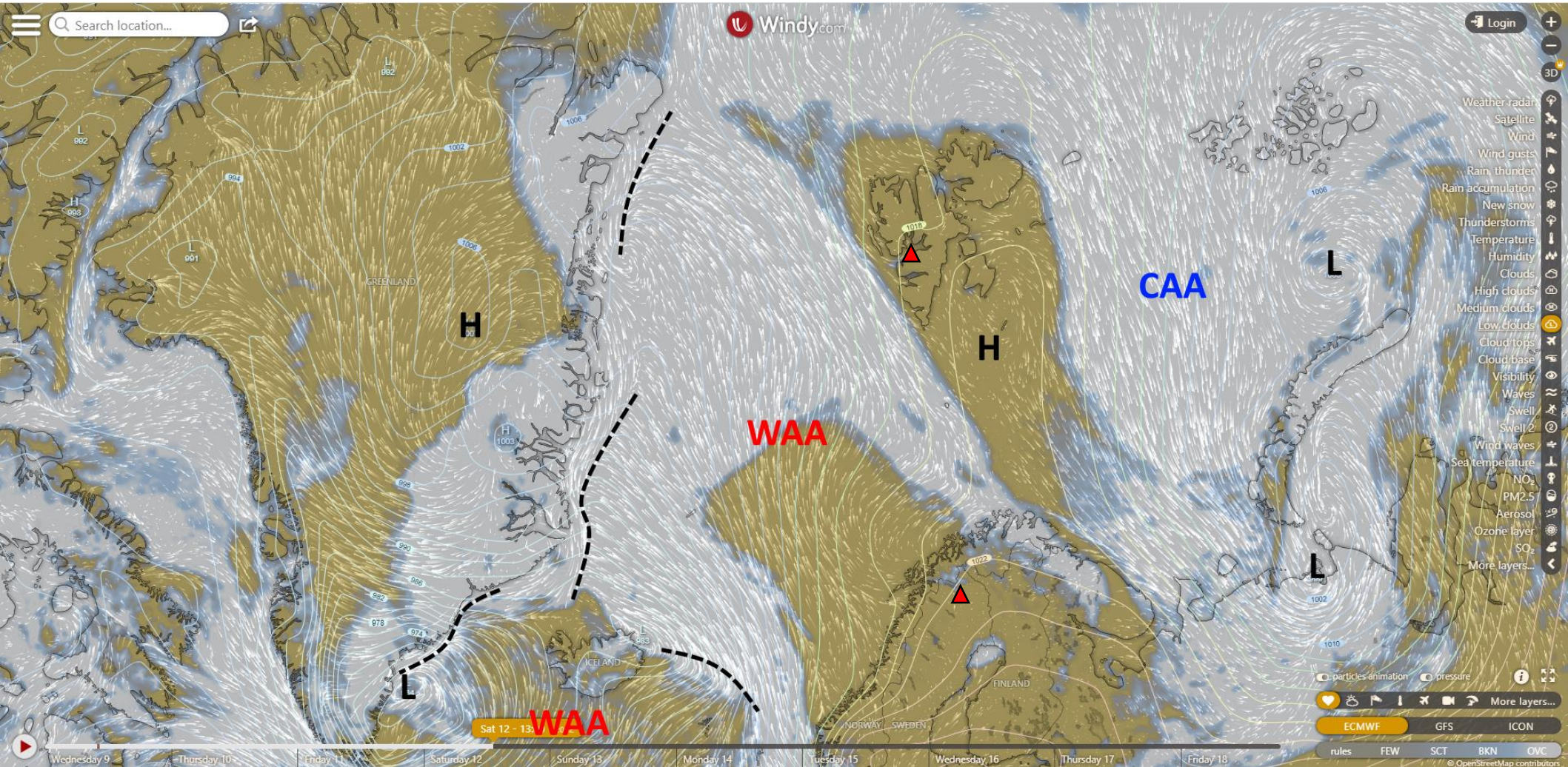
Thursday, 2022-03-10 12 UTC (+36h)



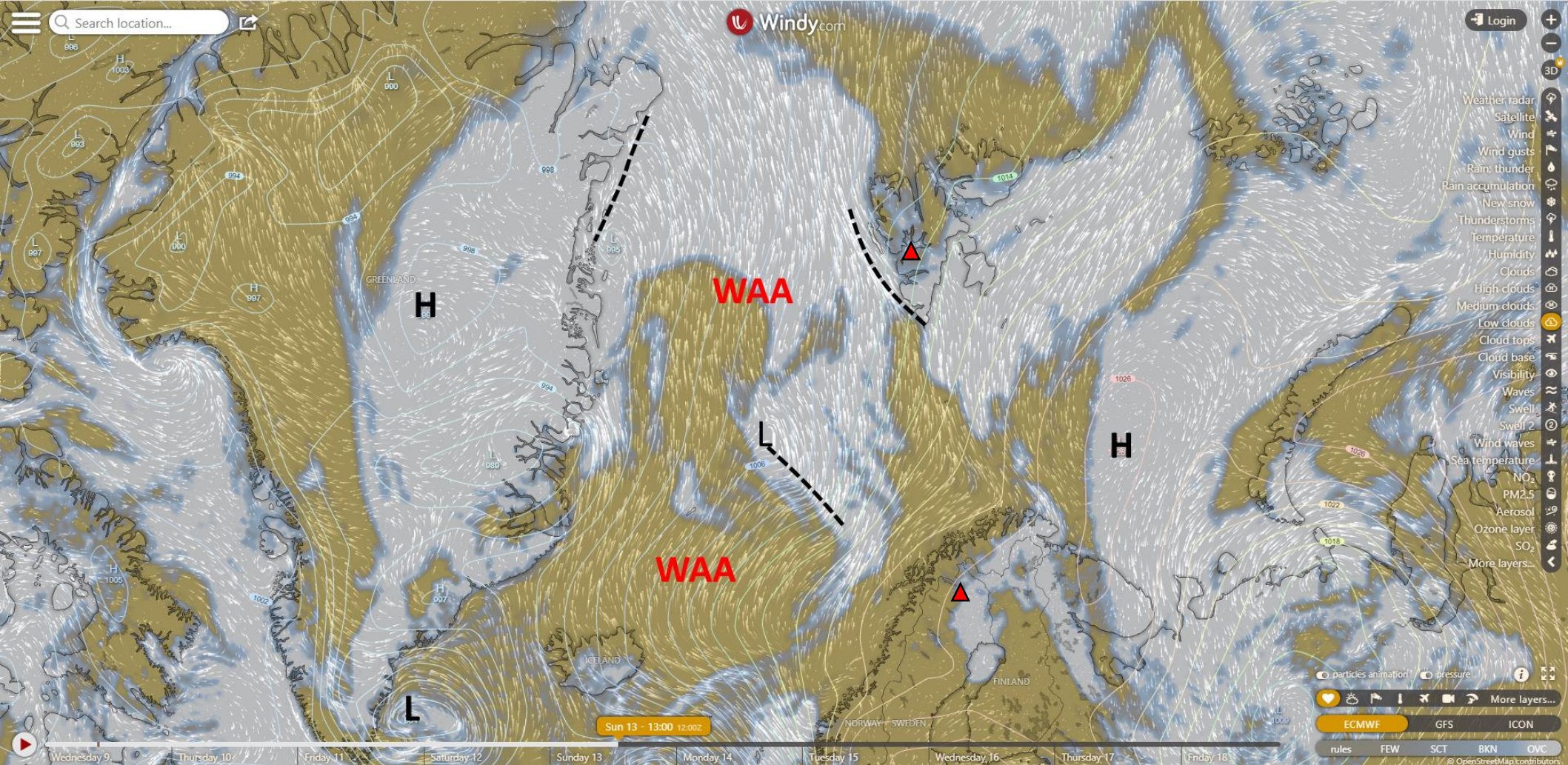
Friday, 2022-03-11 12 UTC (+60h)



Saturday, 2022-03-12 12 UTC (+84h)



Sunday, 2022-03-13 12 UTC (+108h)

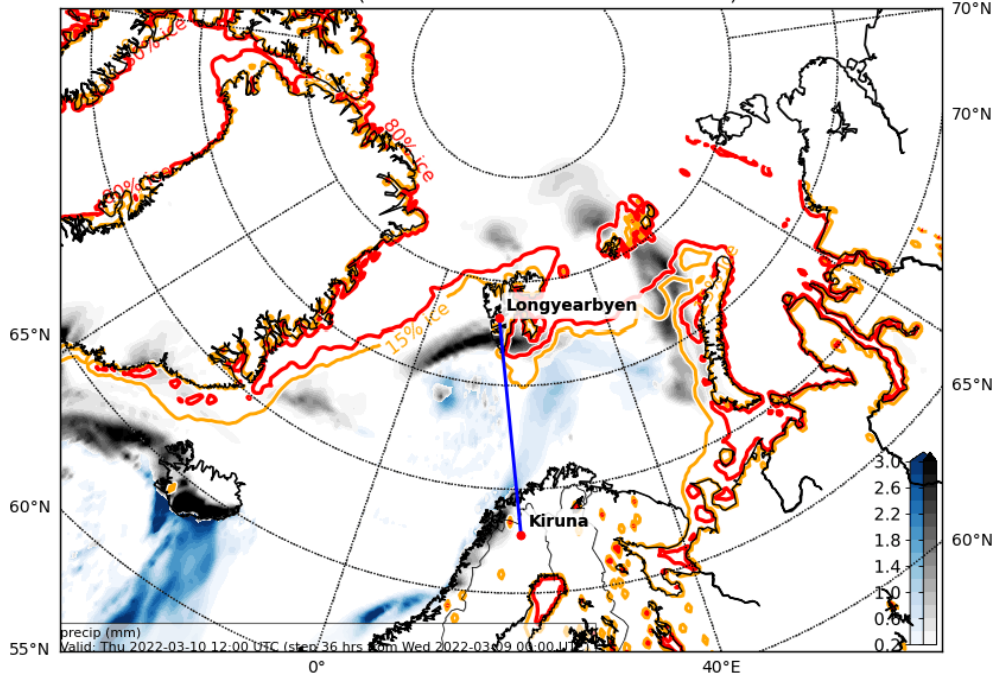


Cloud cover & precip development
2022-03-09 00 UTC: 36 – 108h
ECMWF + ICON

Thu, 2022-03-10 12 UTC (+36h) ECMWF

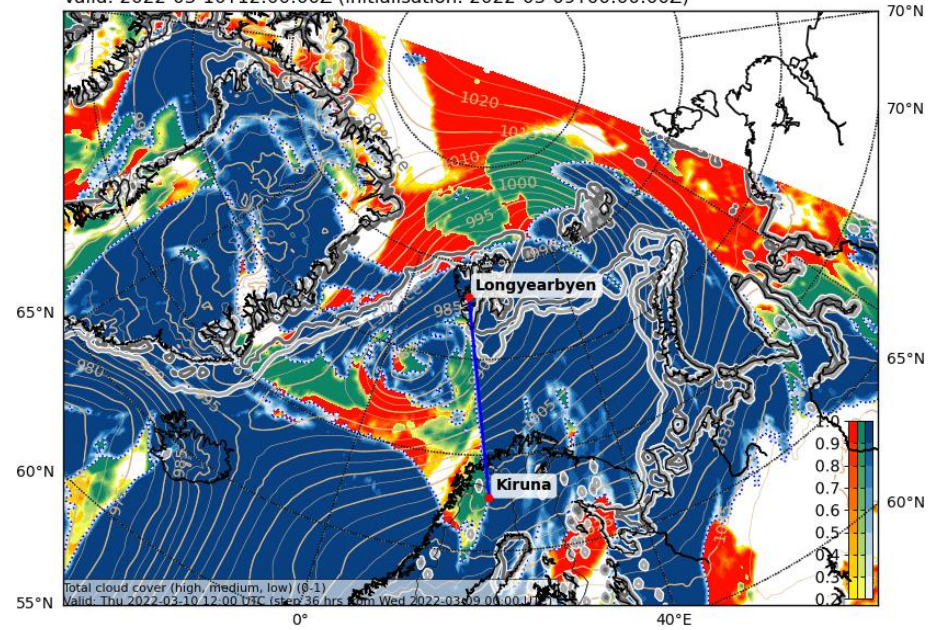
2h precip

Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-10T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)

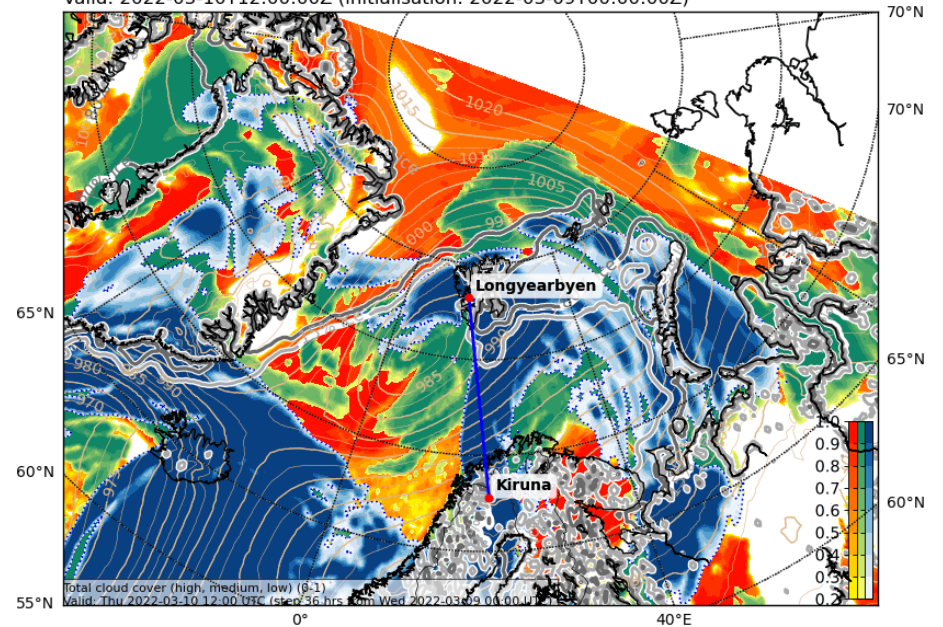


ICON

Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-10T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



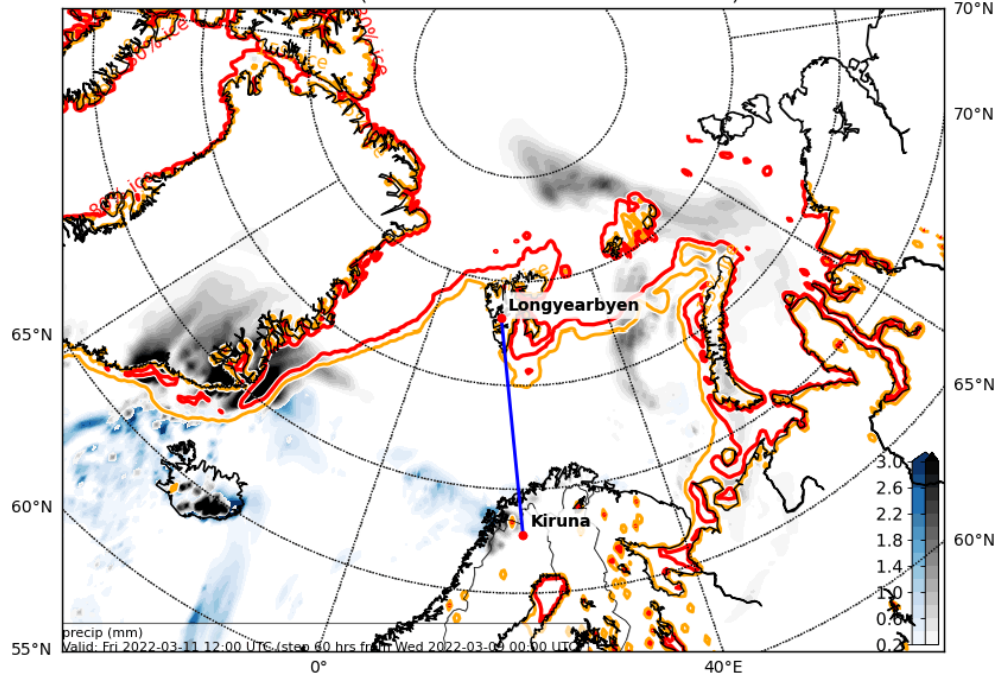
Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-10T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Fri, 2022-03-11 12 UTC (+60h) ECMWF

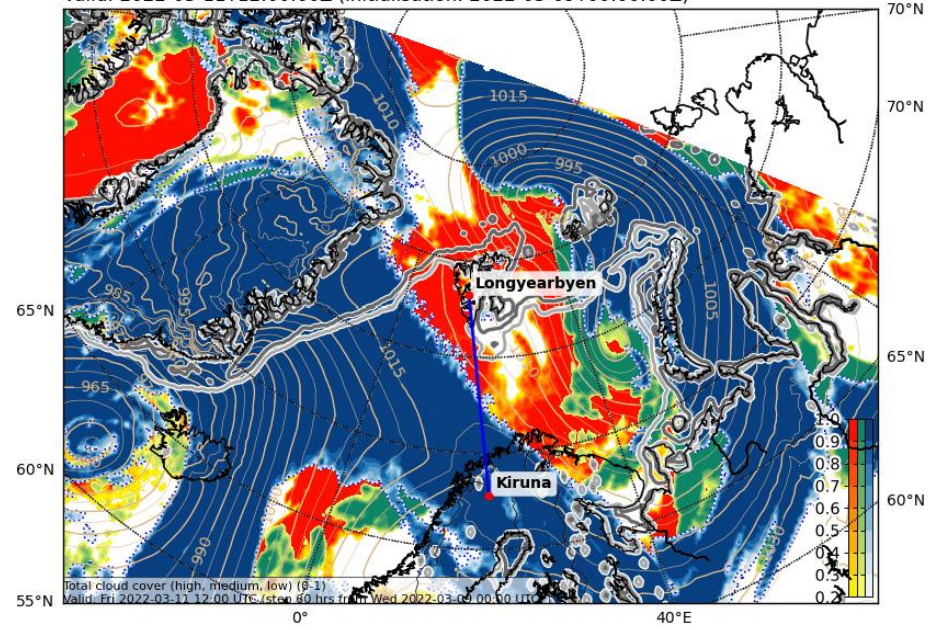
2h precip

Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-11T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)

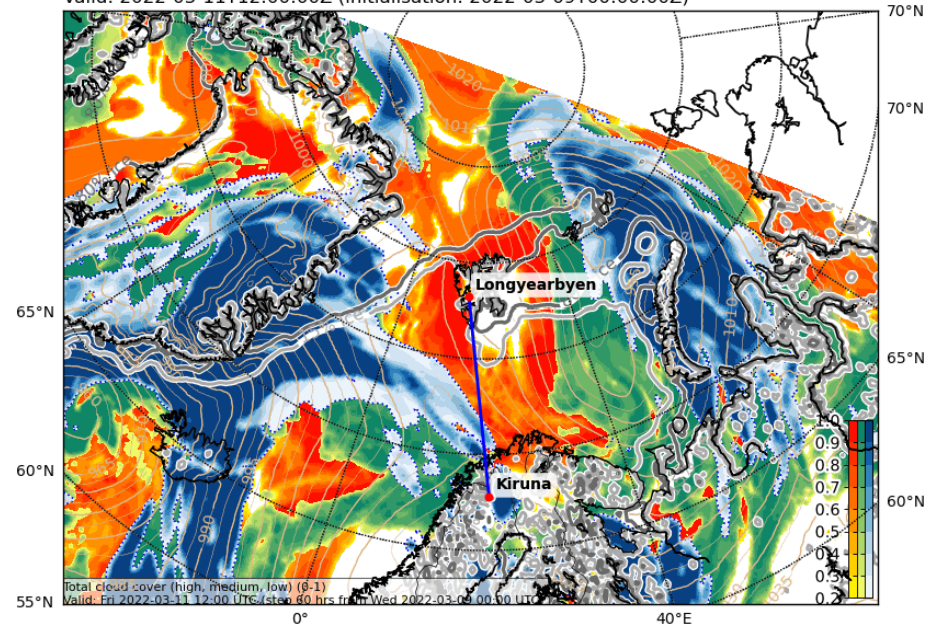


ICON

Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-11T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



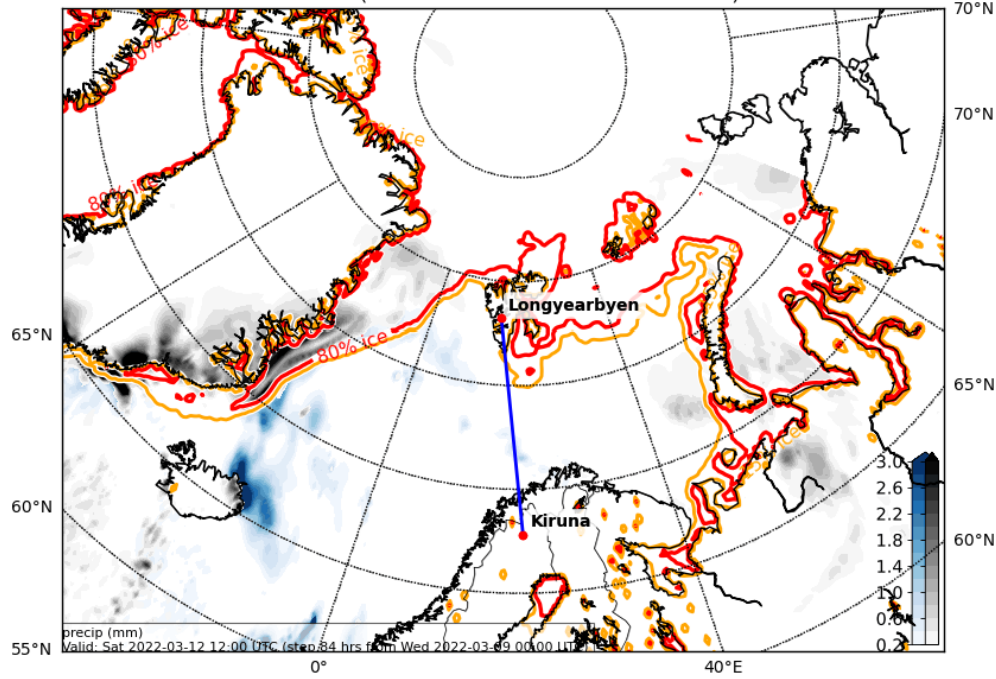
Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-11T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



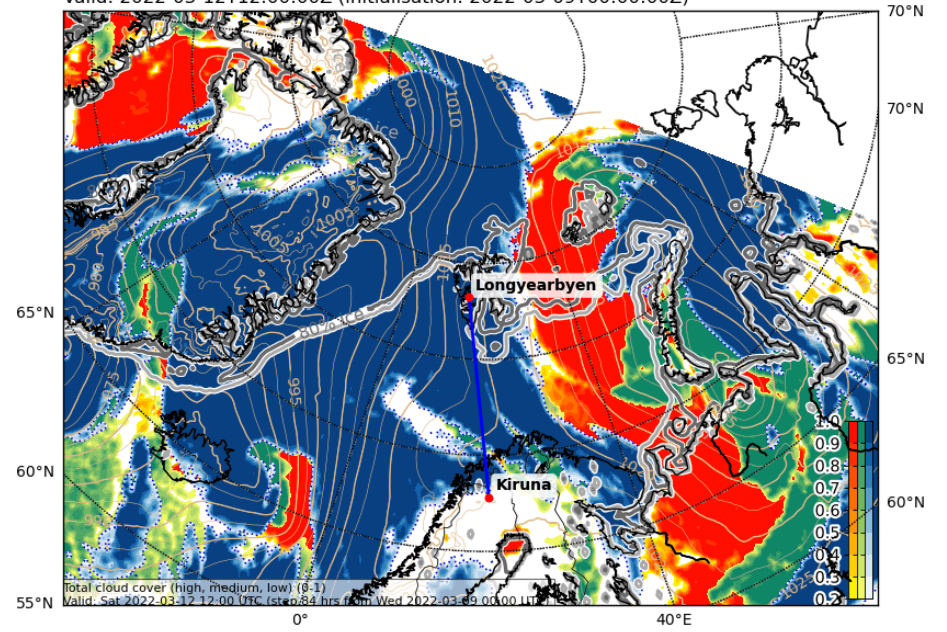
Sat, 2022-03-12 12 UTC (+84h) ECMWF

2h precip

Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-12T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-12T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



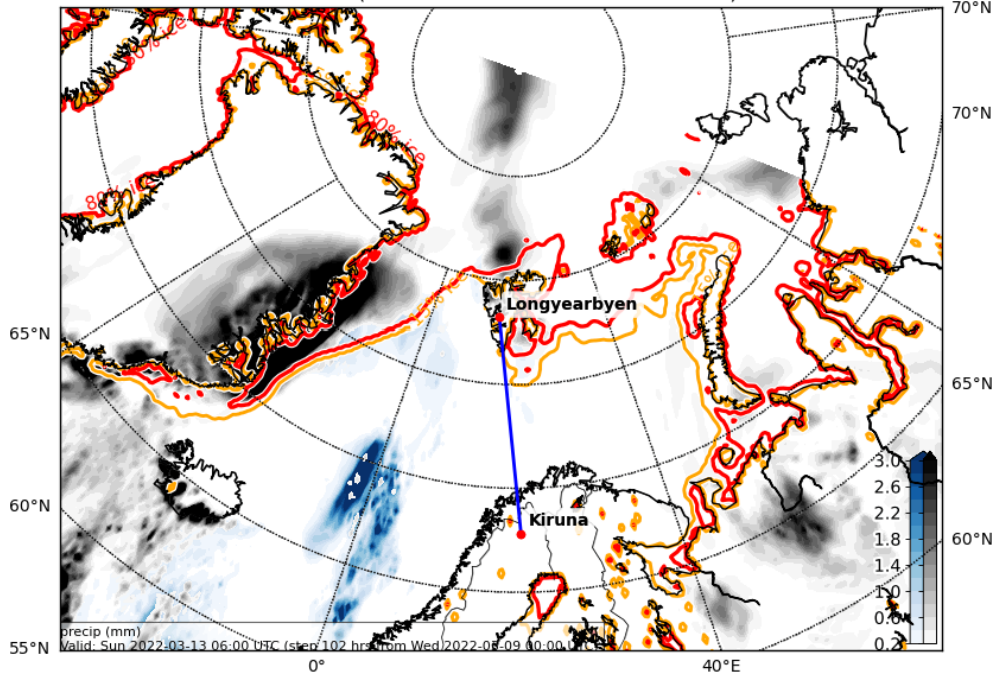
not available

ICON

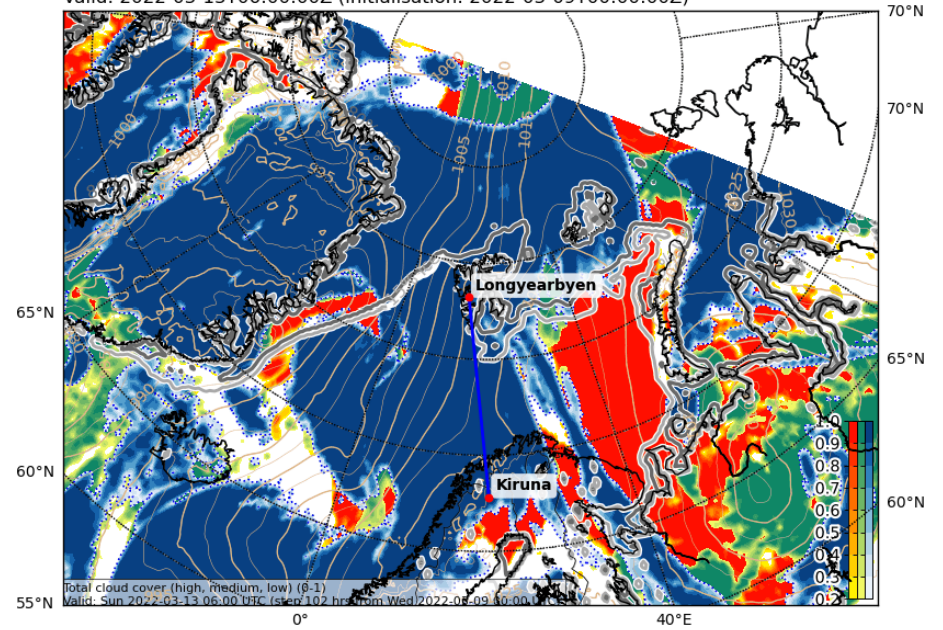
Sun, 2022-03-13 06 UTC (+102h) ECMWF

2h precip

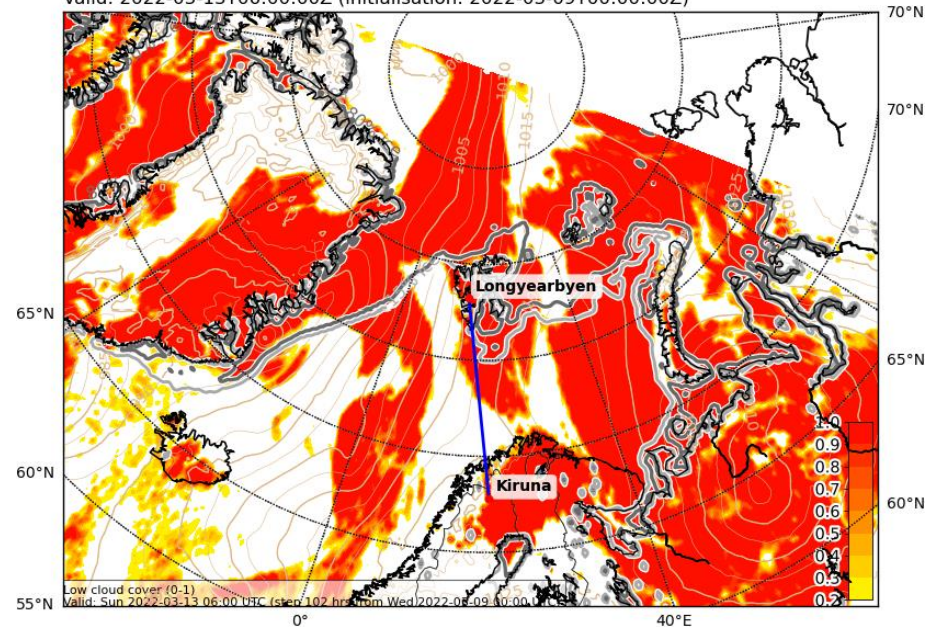
Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-13T06:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-13T06:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (LOW)
Valid: 2022-03-13T06:00:00Z (initialisation: 2022-03-09T00:00:00Z)

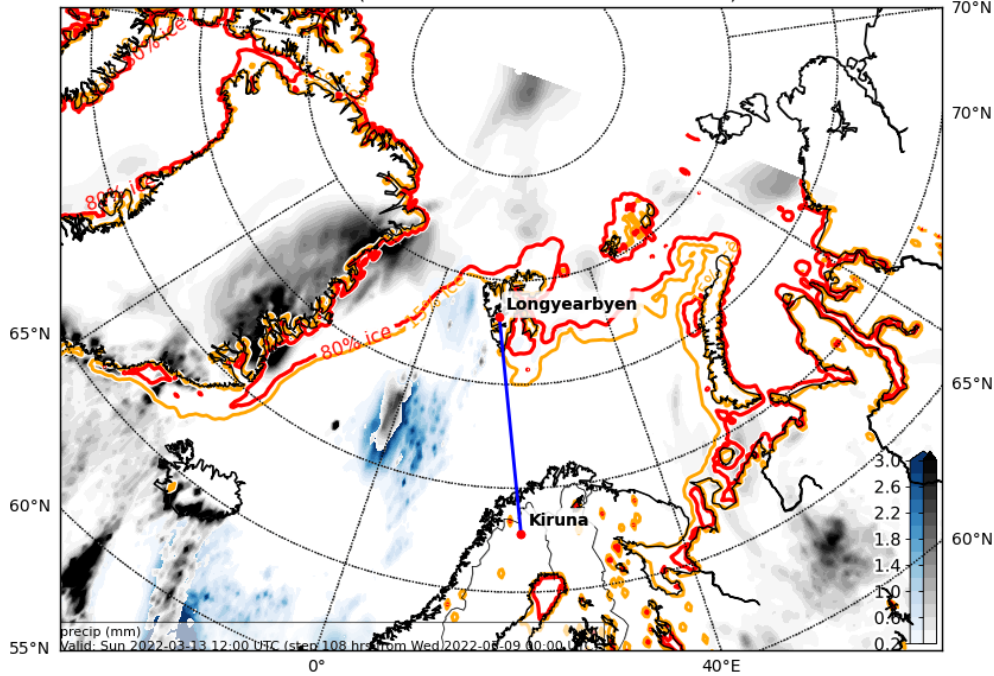


Low Level Clouds

Sun, 2022-03-13 12 UTC (+108h) ECMWF

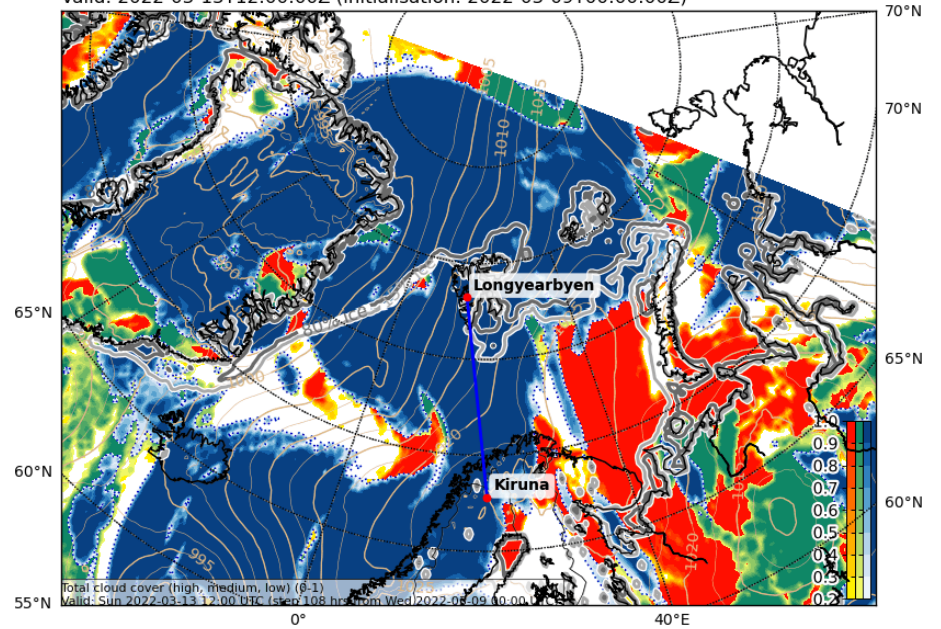
2h precip

Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)

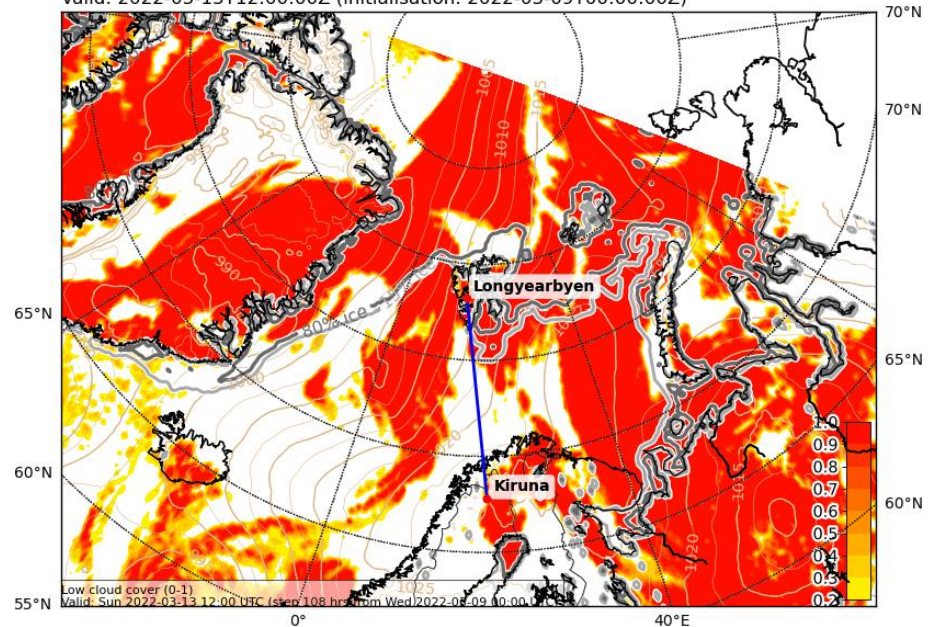


Low Level Clouds

Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



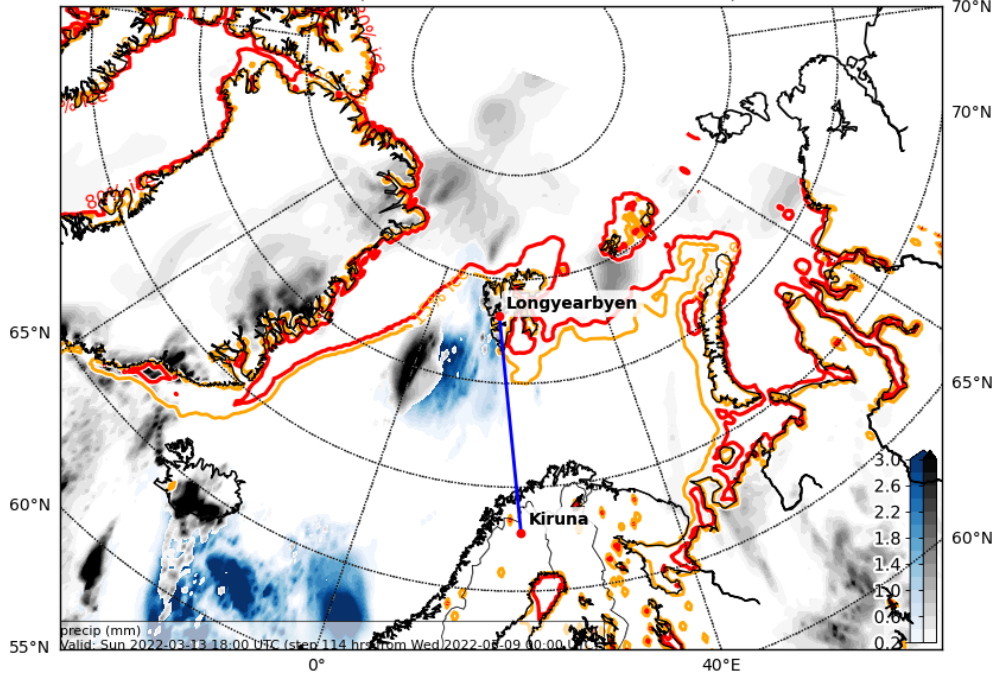
Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (LOW)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Sun, 2022-03-13 18 UTC (+114h) ECMWF

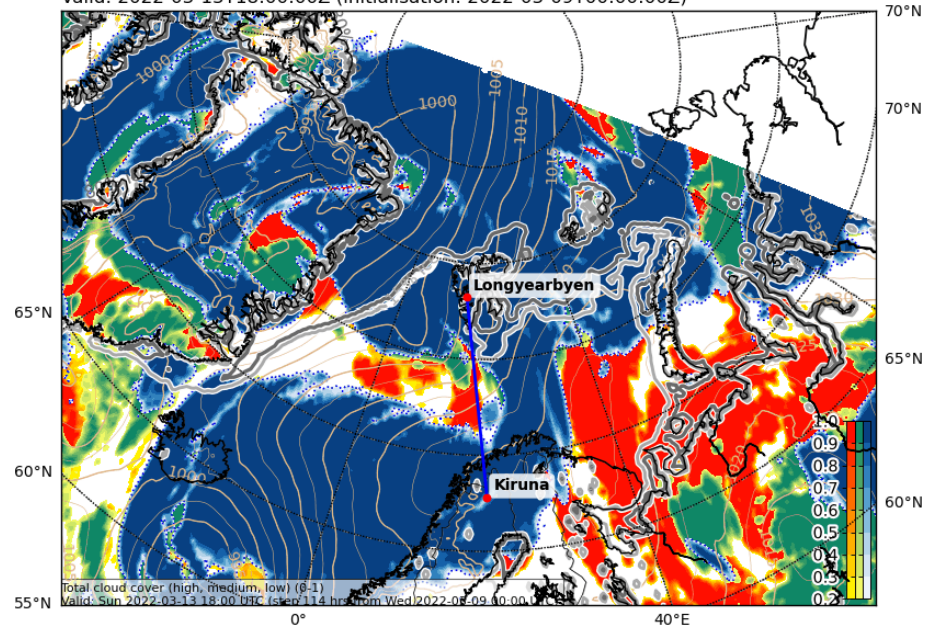
2h precip

Precipitation, instantaneous (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-13T18:00:00Z (initialisation: 2022-03-09T00:00:00Z)

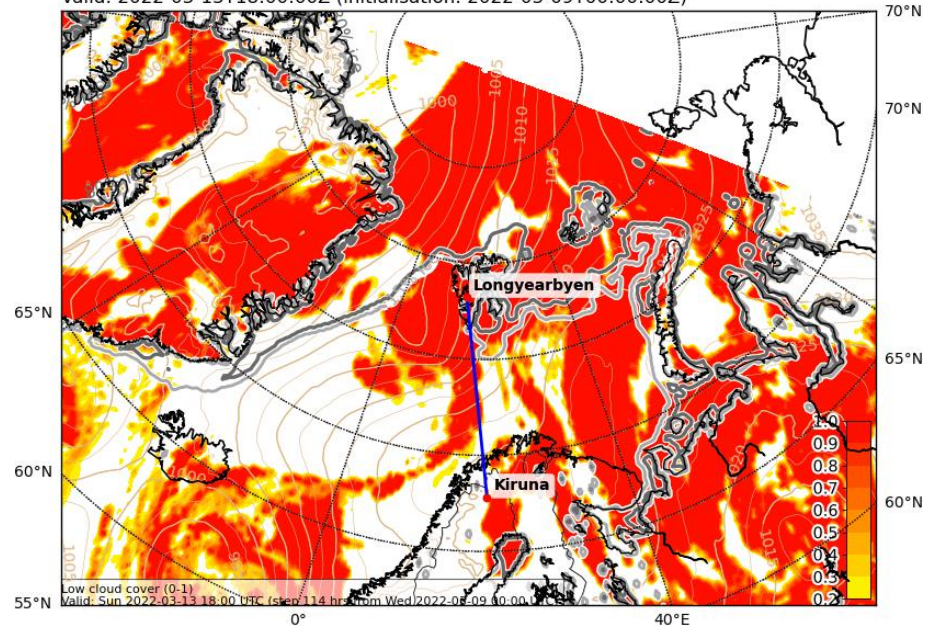


Low Level Clouds

Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-13T18:00:00Z (initialisation: 2022-03-09T00:00:00Z)



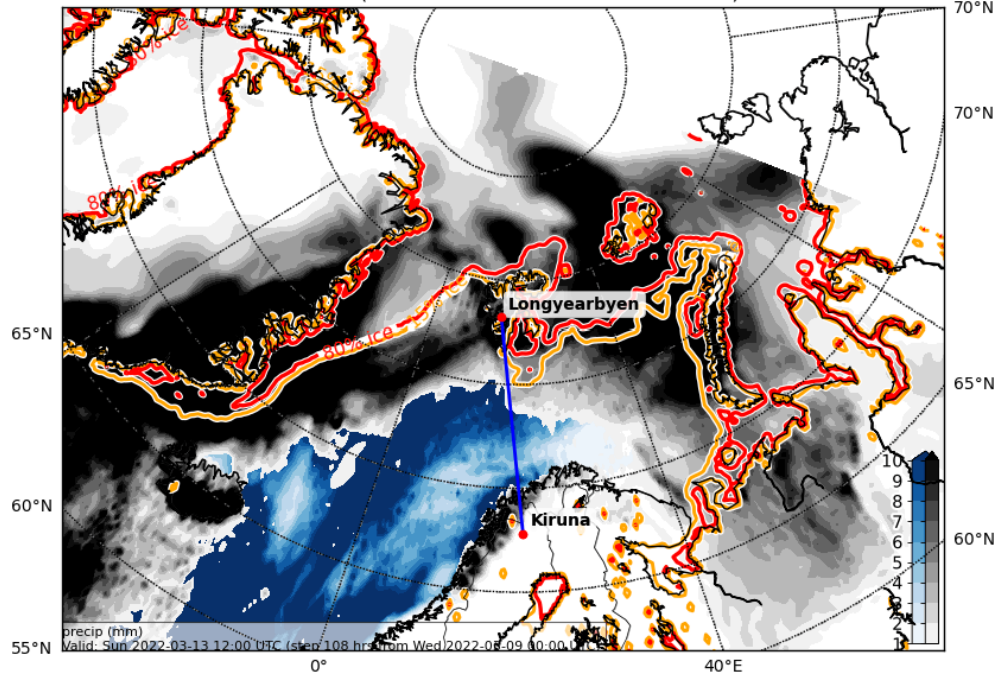
Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (LOW)
Valid: 2022-03-13T18:00:00Z (initialisation: 2022-03-09T00:00:00Z)



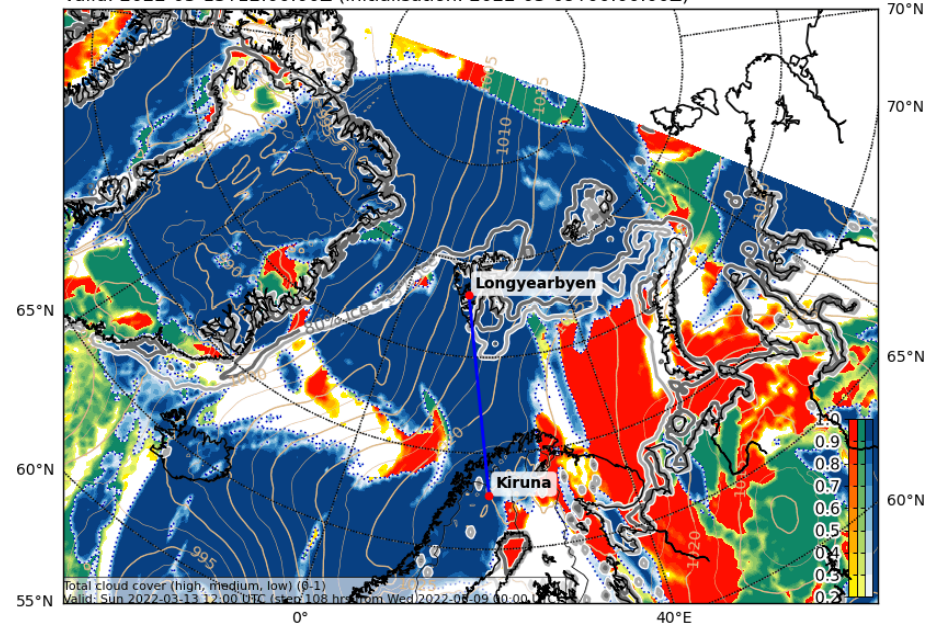
Sun, 2022-03-13 12 UTC (+108h) ECMWF

ACC. precip

Precipitation, accumulated (mm water eq.). Rain-blue, snow-black
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



Cloud Cover (0-1) and Mean Sea Level Pressure (hPa) (TOT)
Valid: 2022-03-13T12:00:00Z (initialisation: 2022-03-09T00:00:00Z)



not available

Low Level Clouds

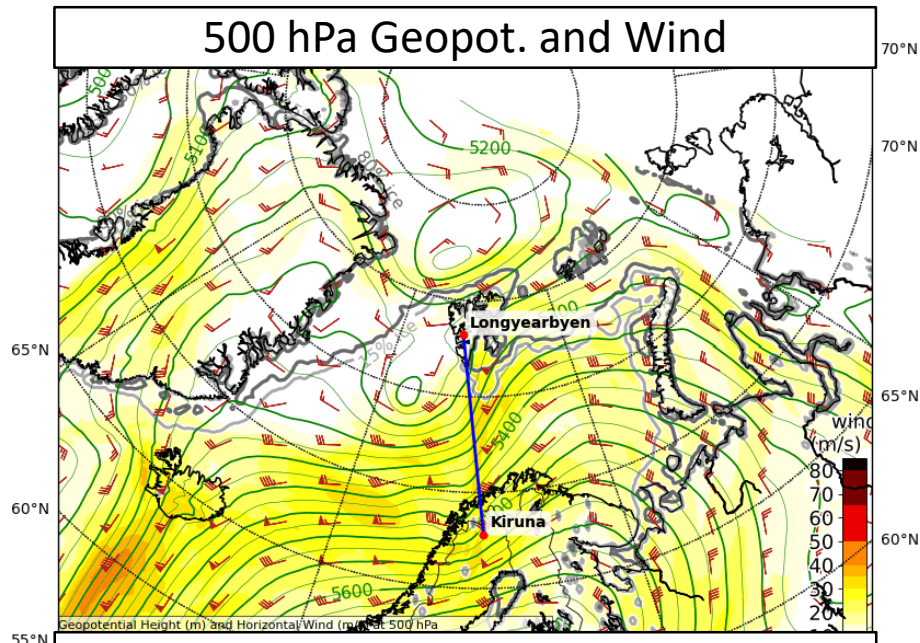
Extra variables

2022-03-09 00 UTC: 36 – 108h

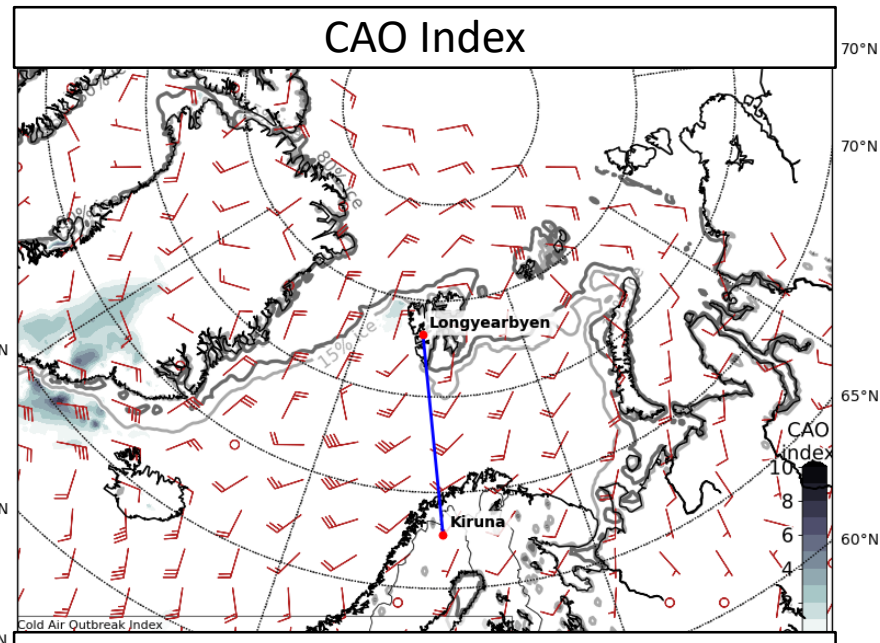
500 hPa wind & 850hPa θ_e & CAO & IVT

Thu, 2022-03-10 12 UTC (+36h)

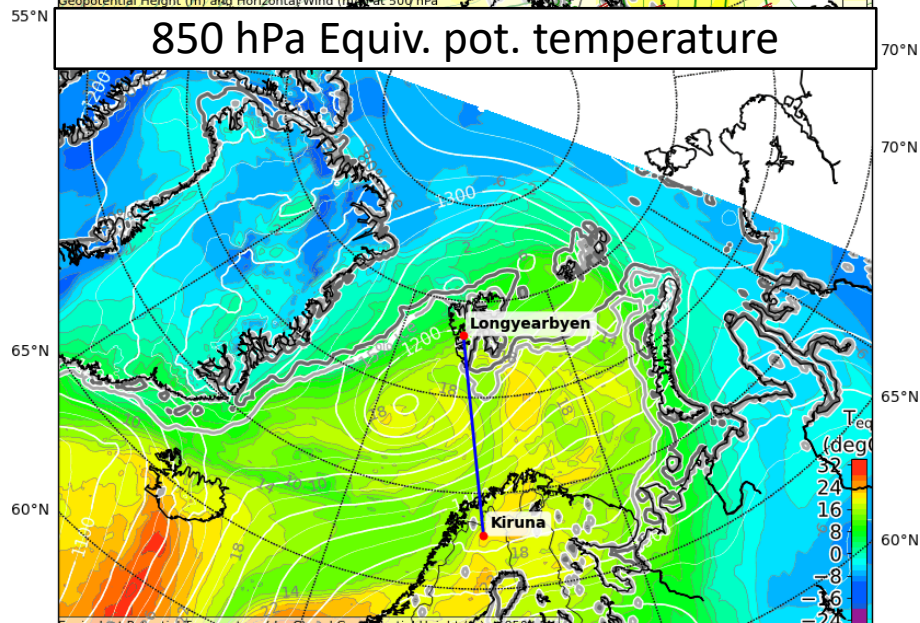
500 hPa Geopot. and Wind



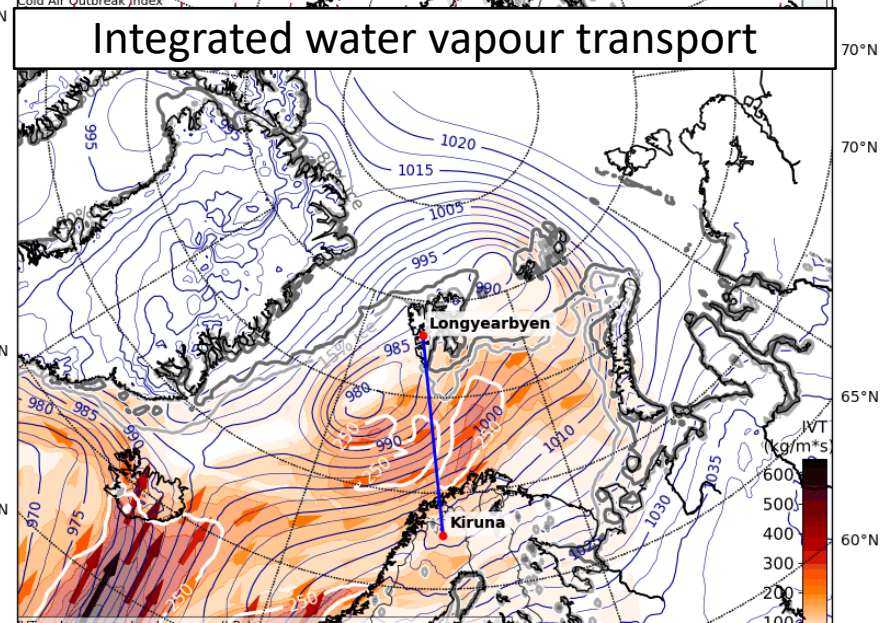
CAO Index



850 hPa Equiv. pot. temperature

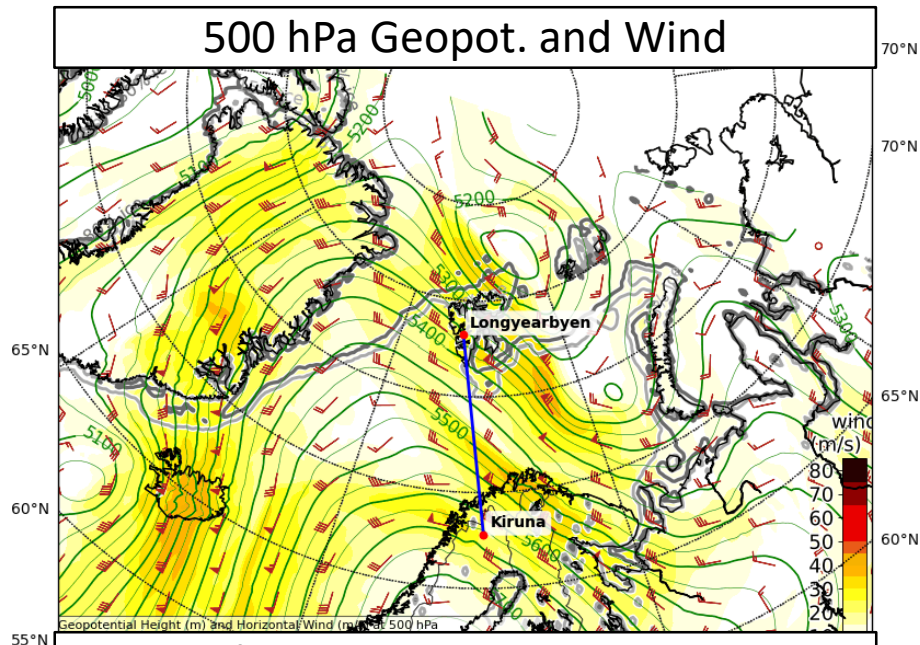


Integrated water vapour transport

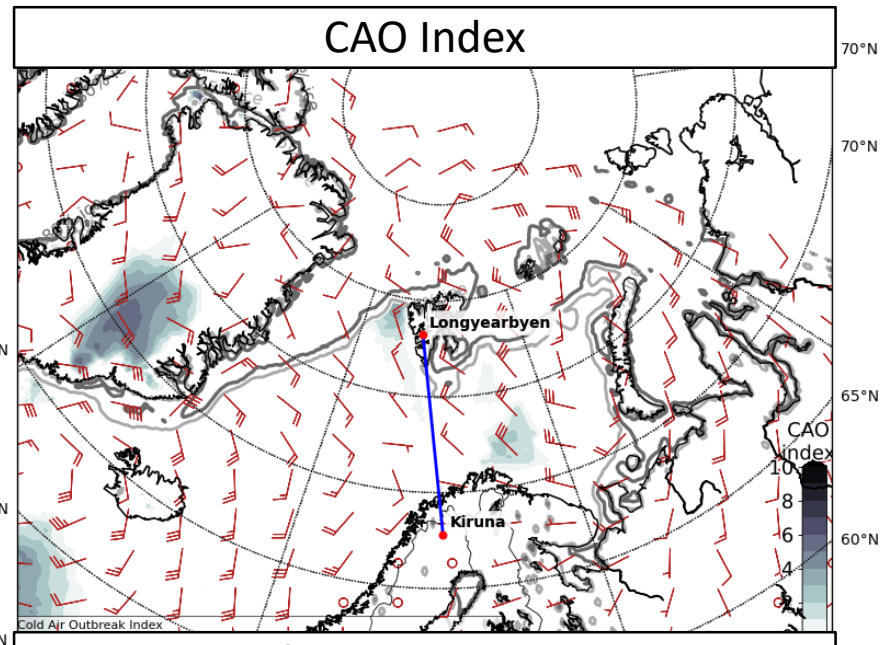


Fri, 2022-03-11 12 UTC (+60h)

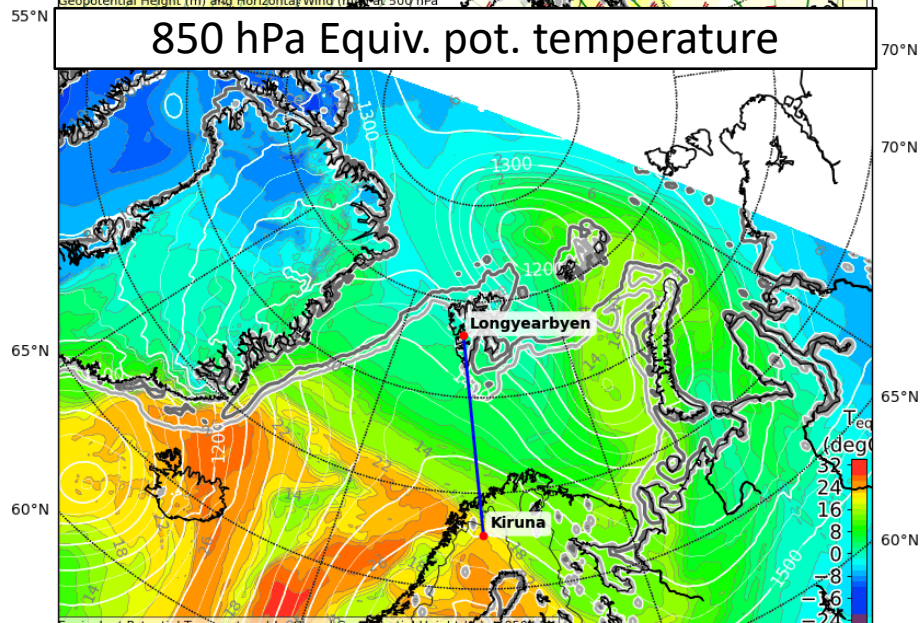
500 hPa Geopot. and Wind



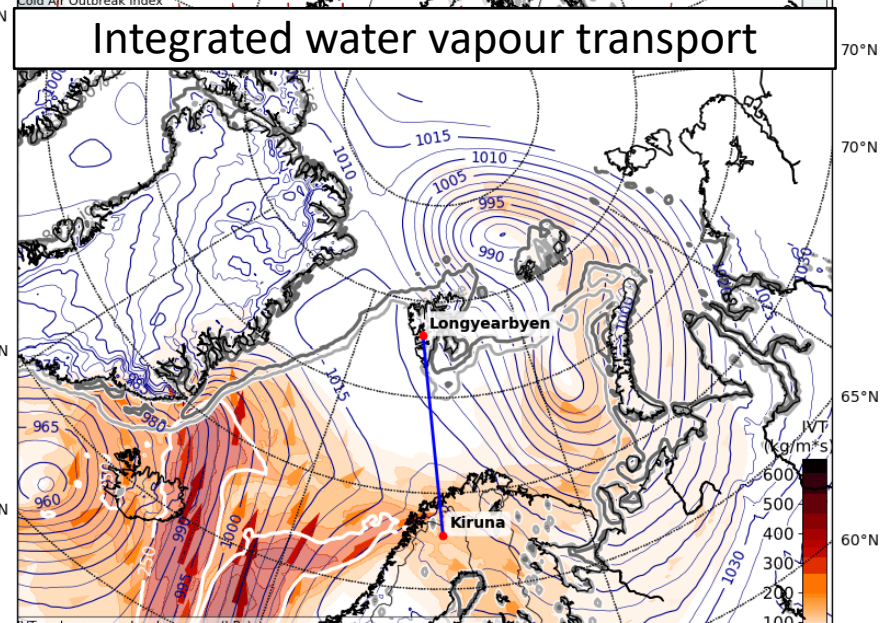
CAO Index



850 hPa Equiv. pot. temperature

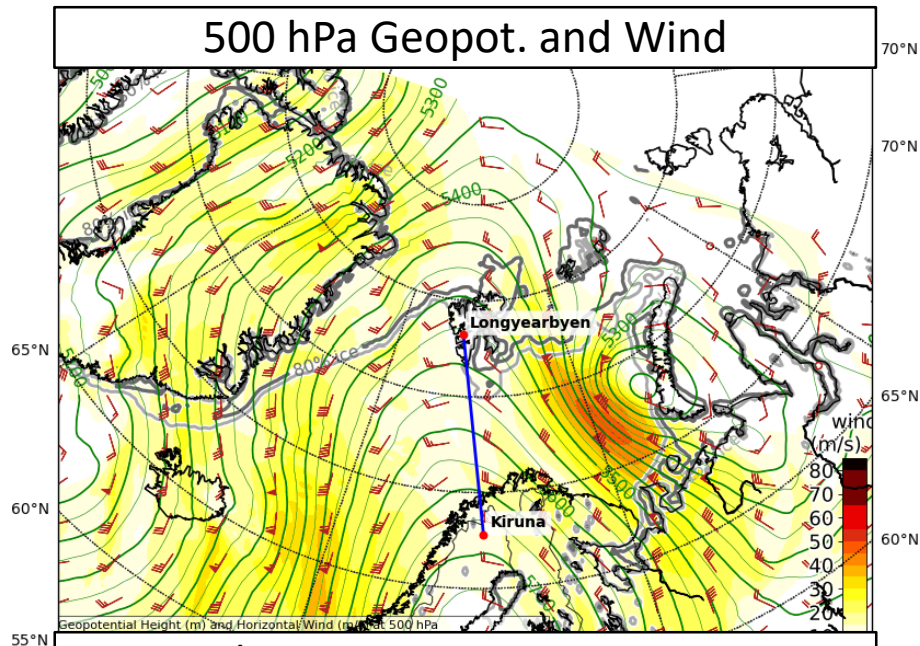


Integrated water vapour transport

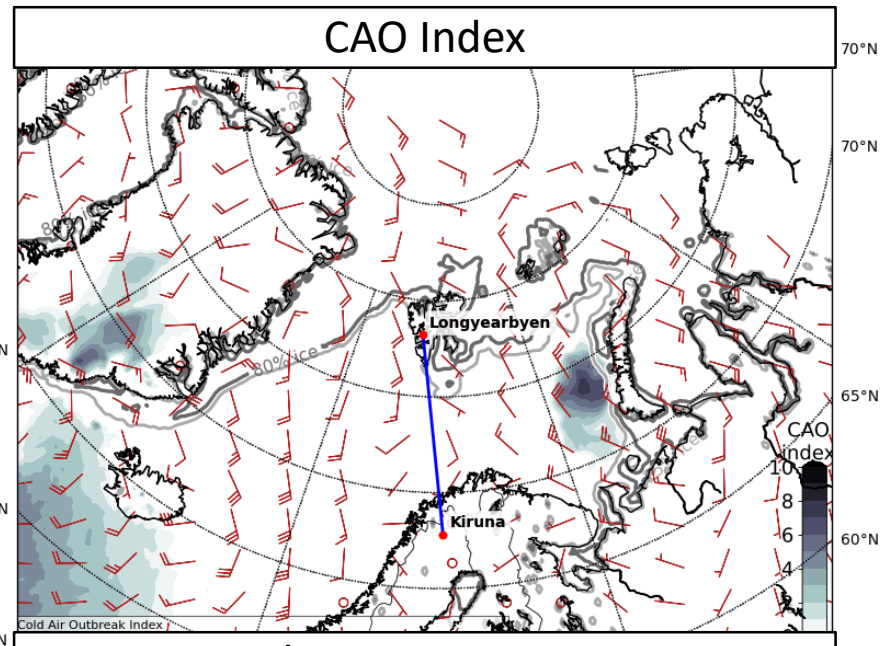


Sat, 2022-03-12 12 UTC (+84h)

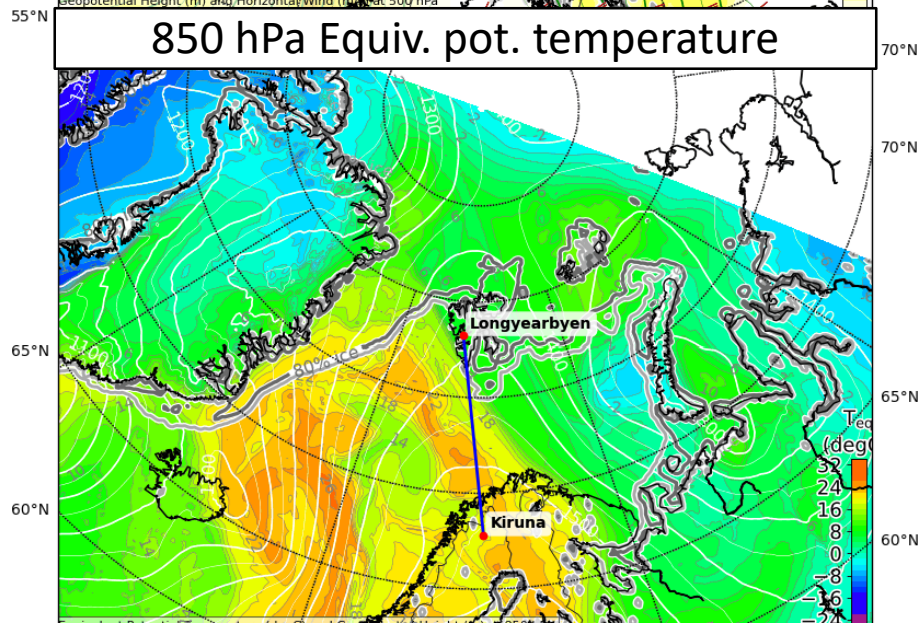
500 hPa Geopot. and Wind



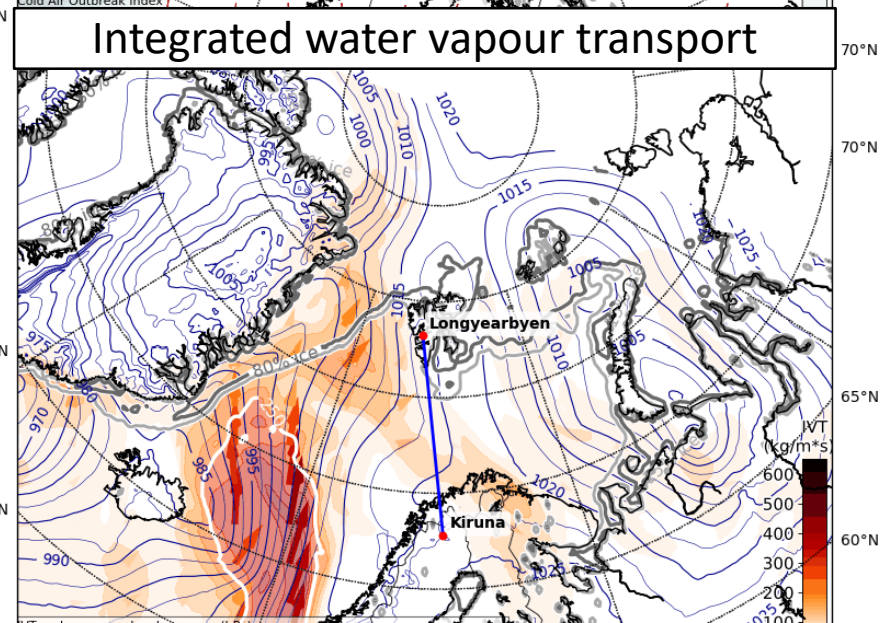
CAO Index



850 hPa Equiv. pot. temperature

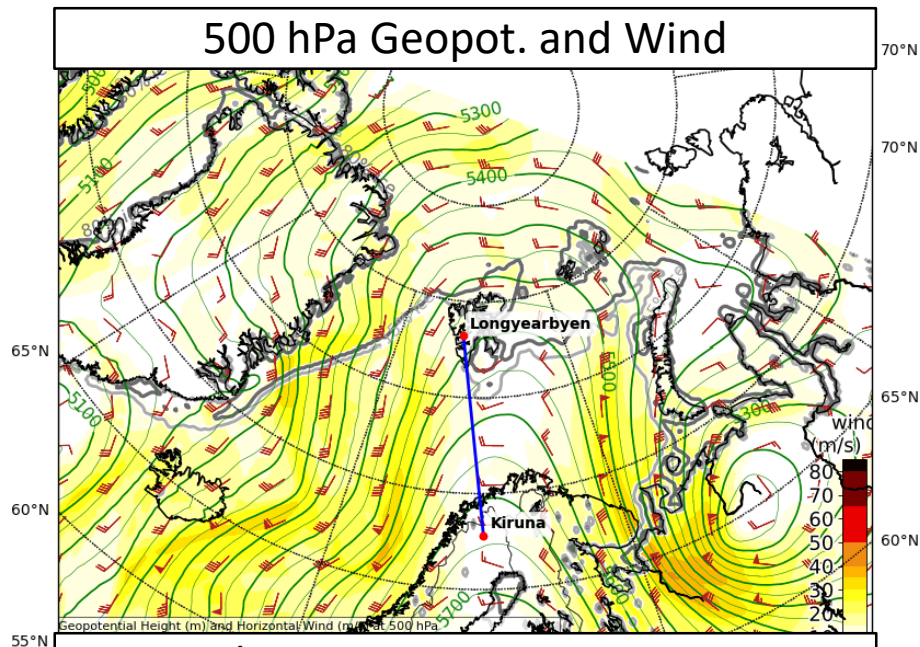


Integrated water vapour transport

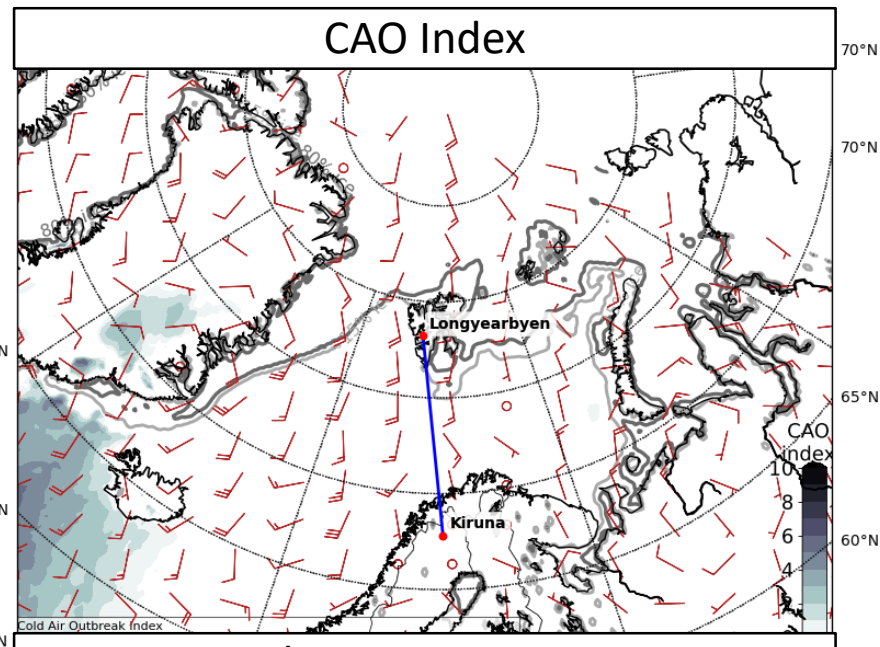


Sun, 2022-03-13 06 UTC (+102h)

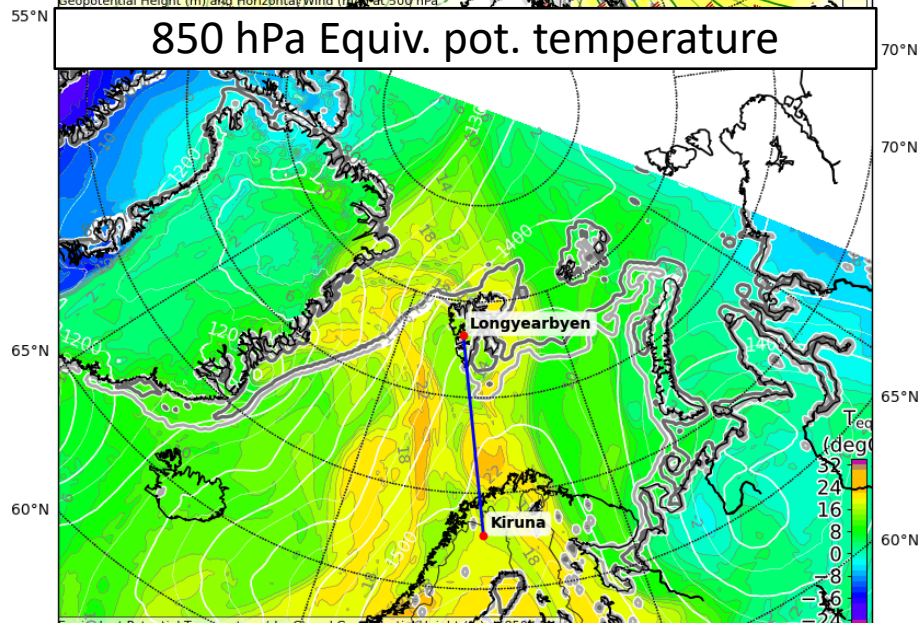
500 hPa Geopot. and Wind



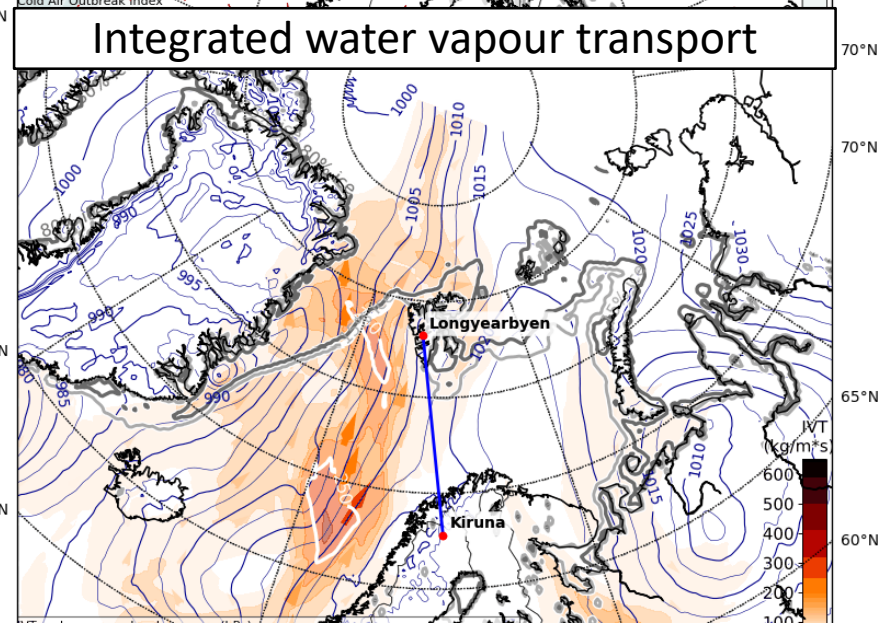
CAO Index



850 hPa Equiv. pot. temperature

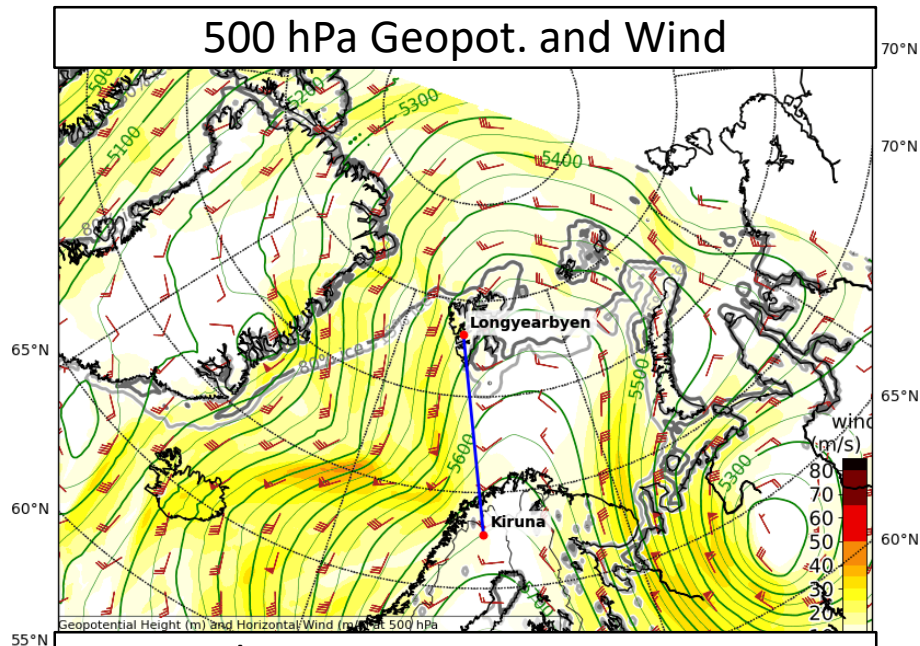


Integrated water vapour transport

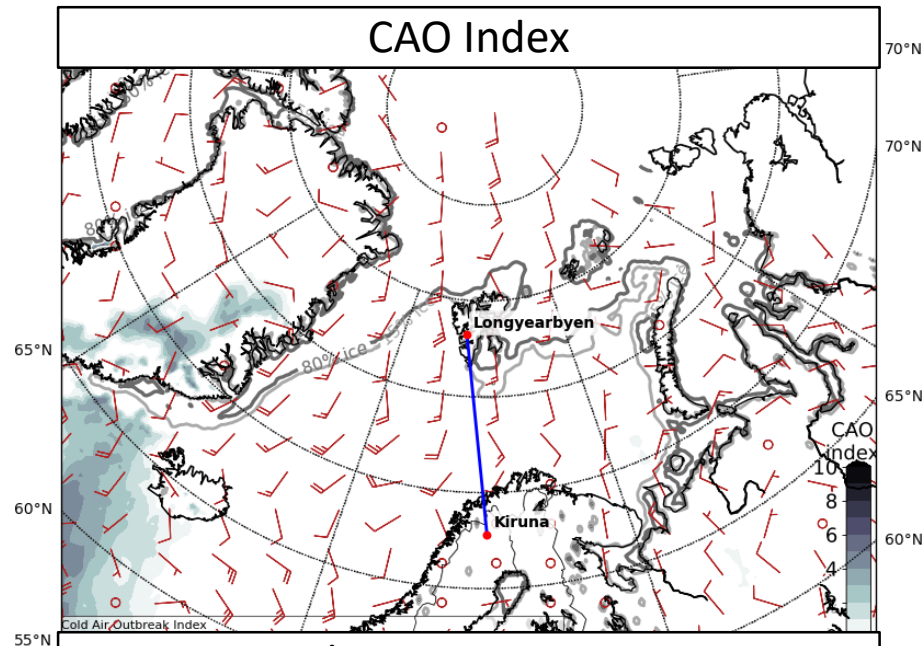


Sun, 2022-03-13 12 UTC (+108h)

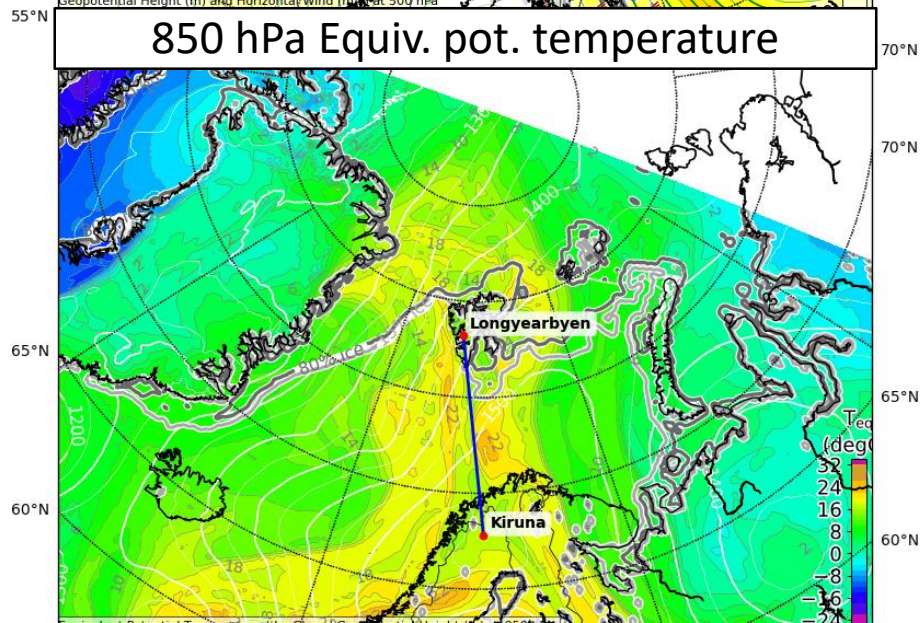
500 hPa Geopot. and Wind



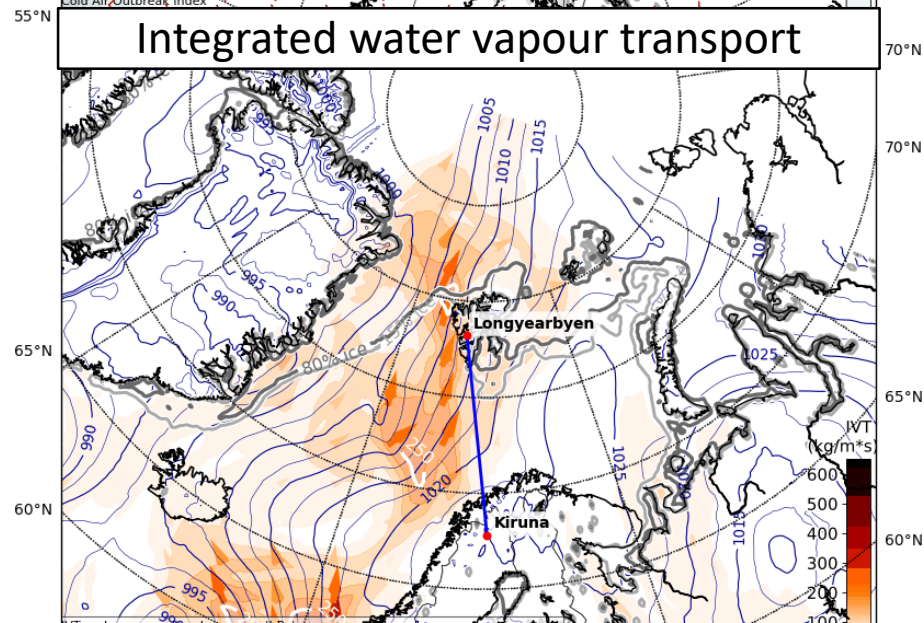
CAO Index



850 hPa Equiv. pot. temperature

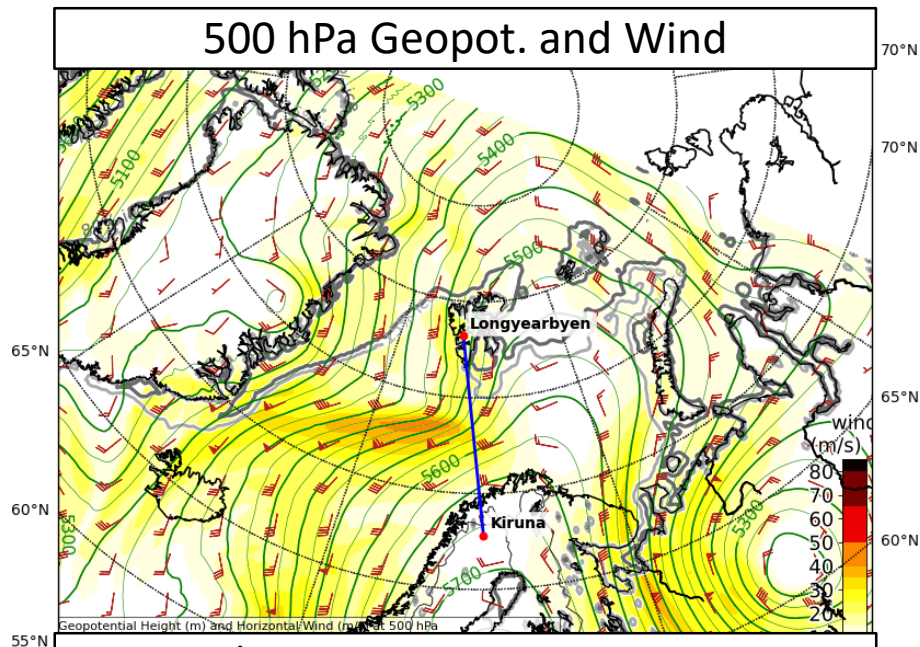


Integrated water vapour transport

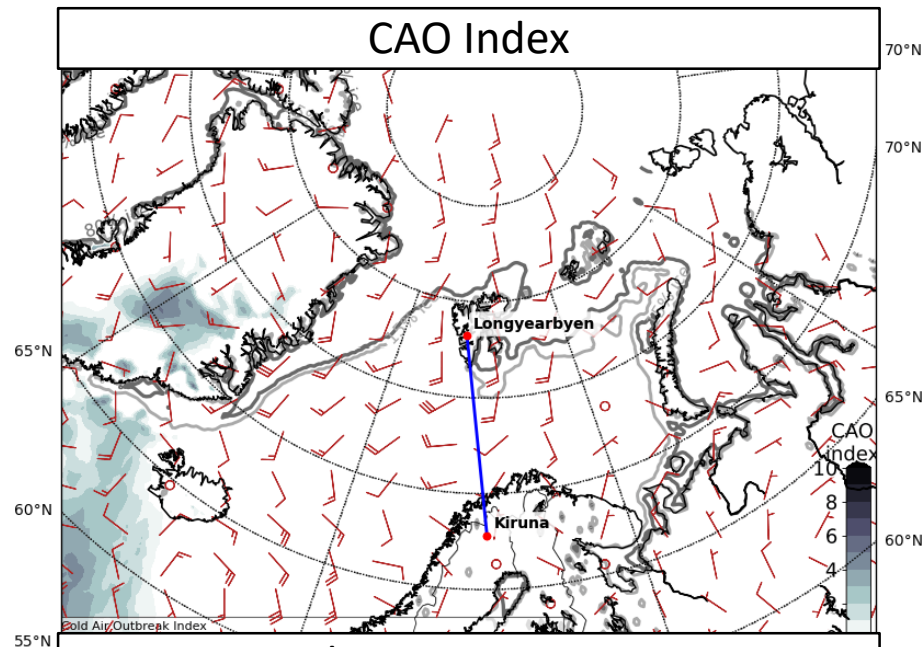


Sun, 2022-03-13 18 UTC (+114h)

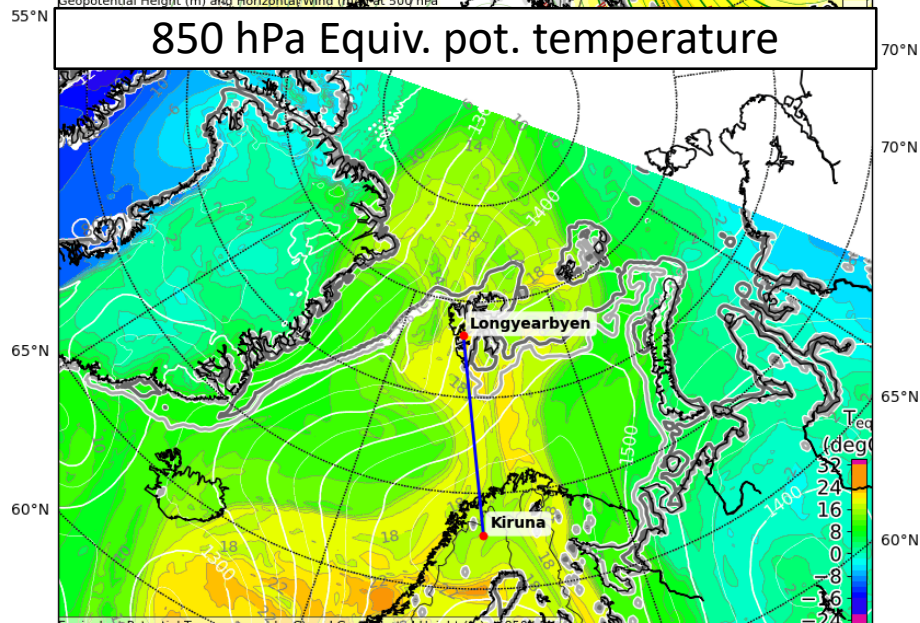
500 hPa Geopot. and Wind



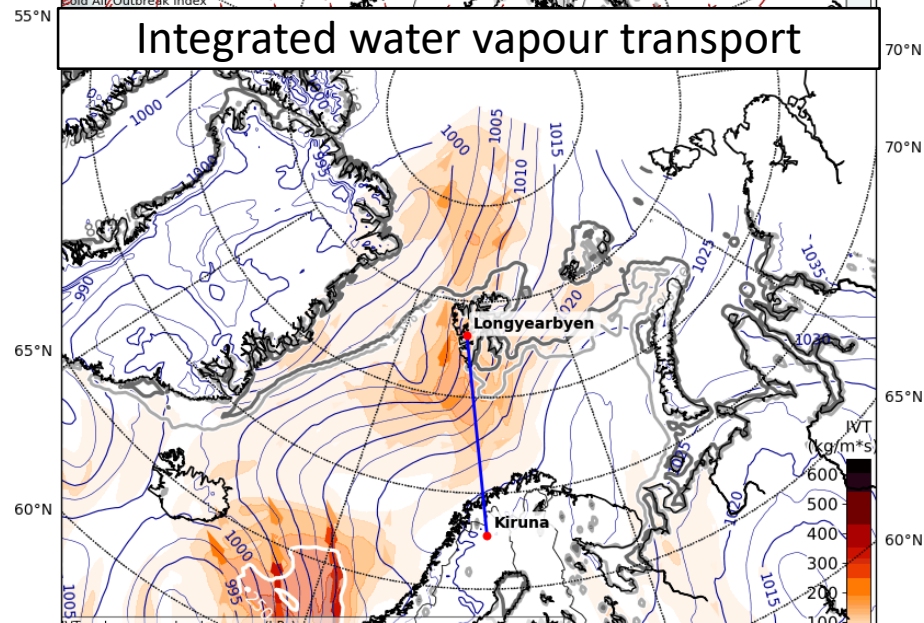
CAO Index



850 hPa Equiv. pot. temperature

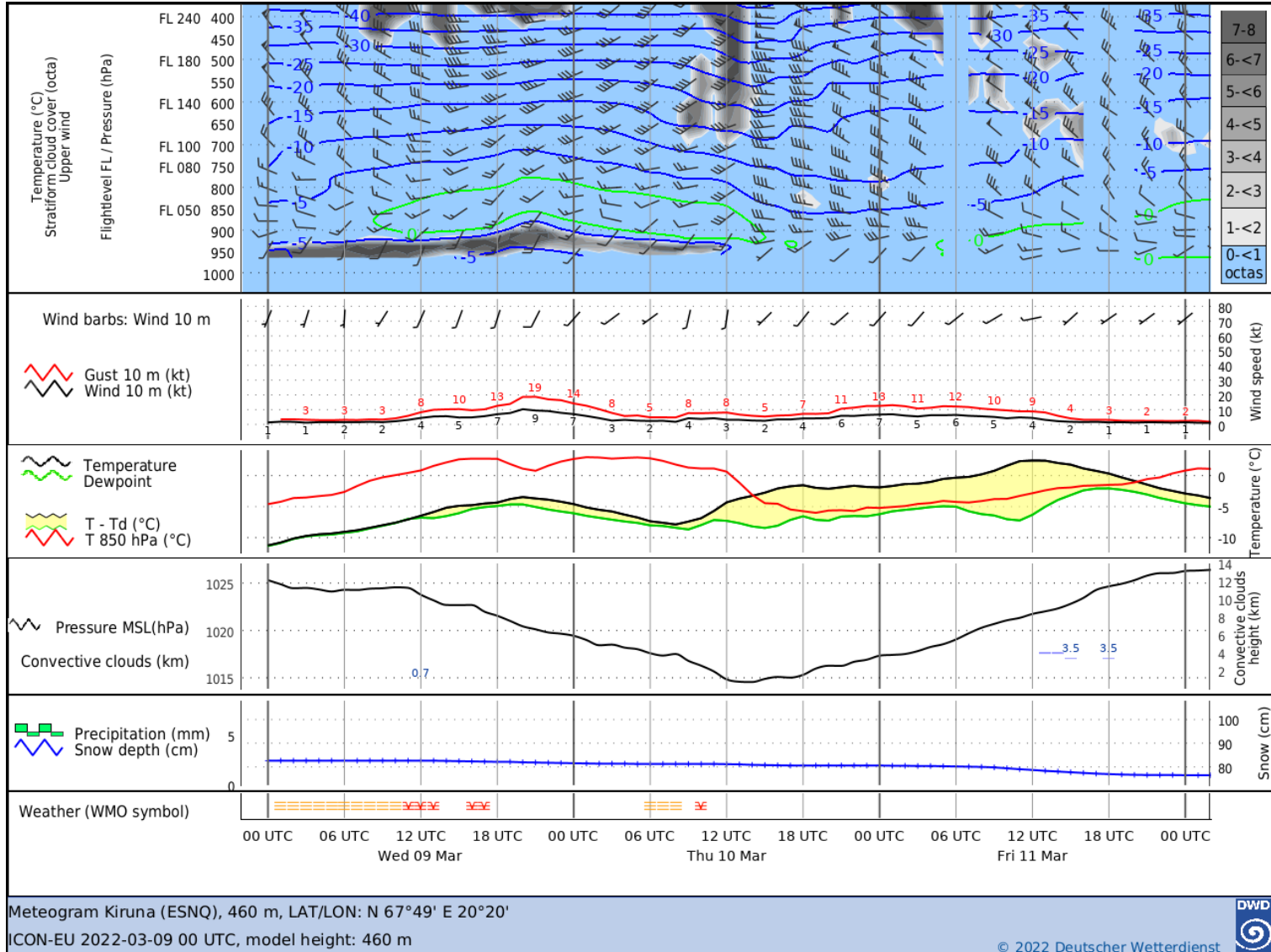


Integrated water vapour transport



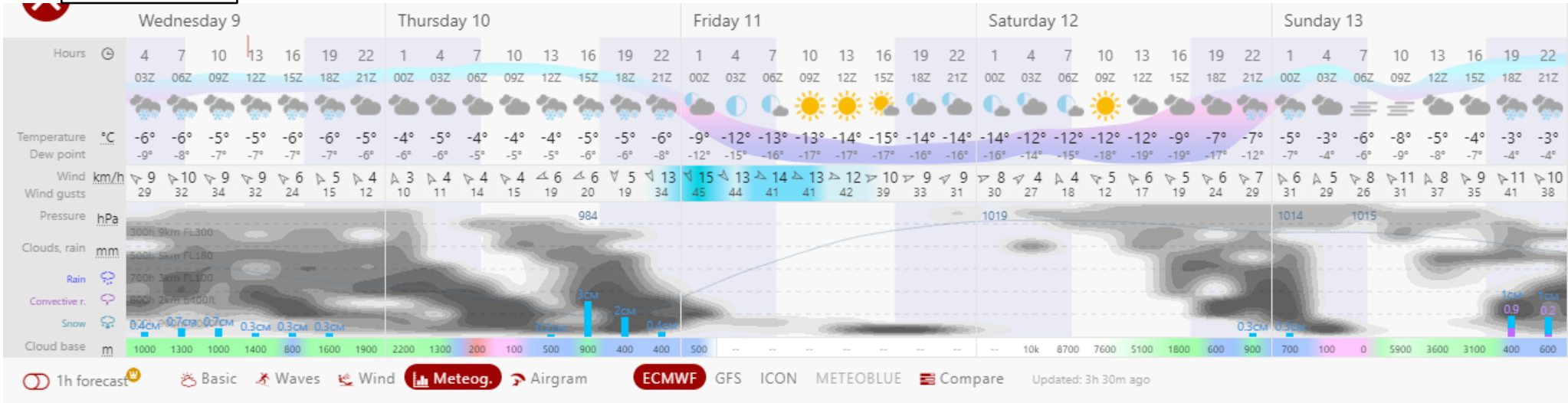
Airport meteograms
2022-03-09 00 UTC: 00 – 72h

Kiruna:

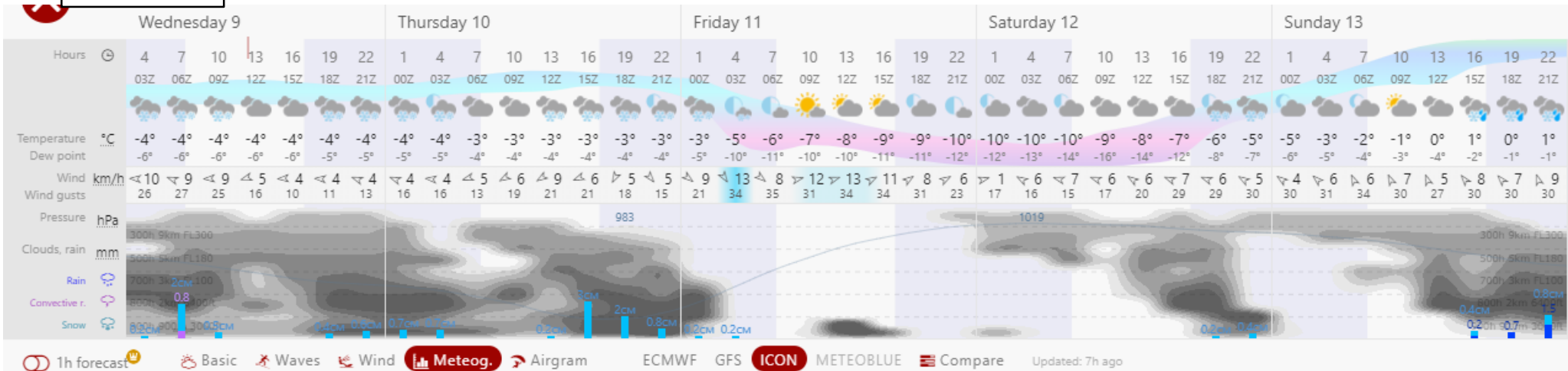


Longyearbyen:

ECMWF



ICON



Forecast uncertainty
2022-03-02 00 UTC: 72 – 96h

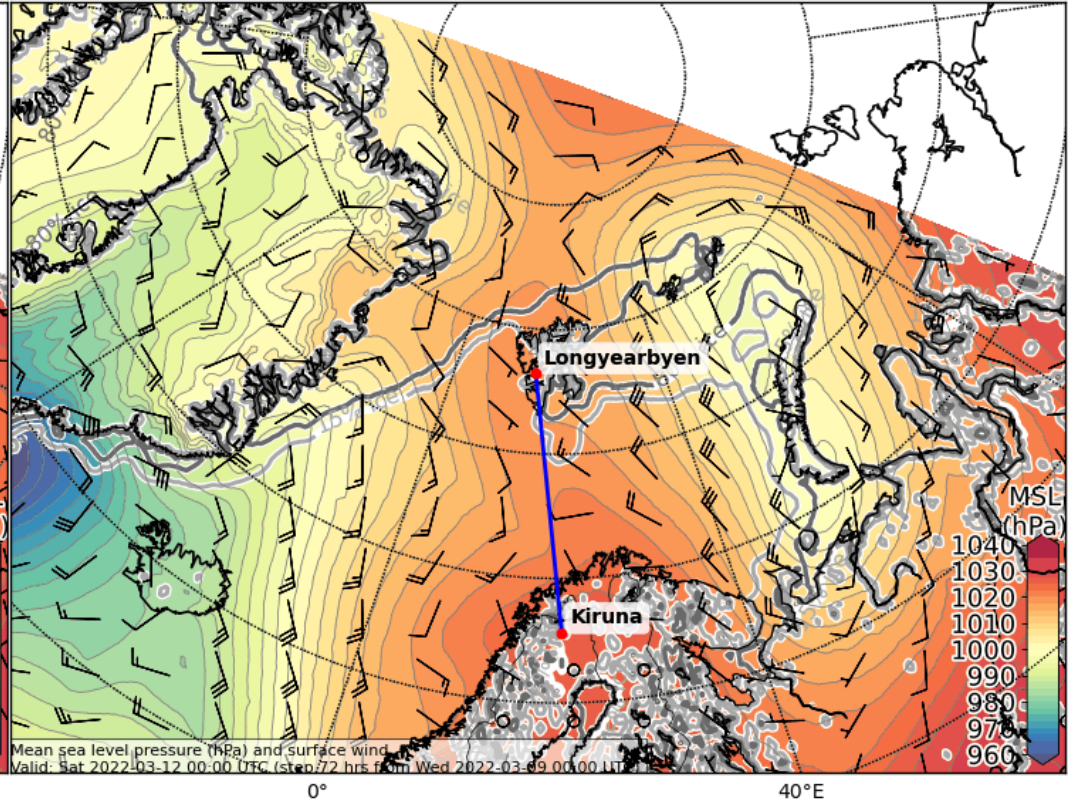
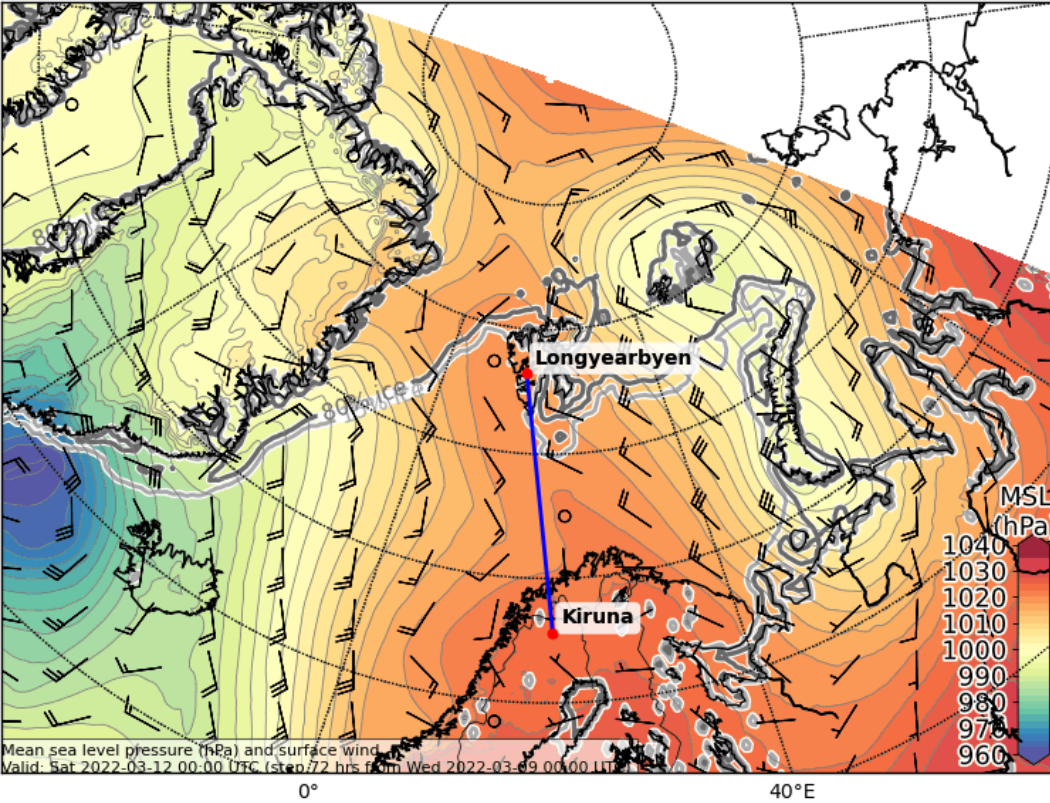
Saturday, 2022-03-12 00 UTC (+72h)

ECMWF

ICON

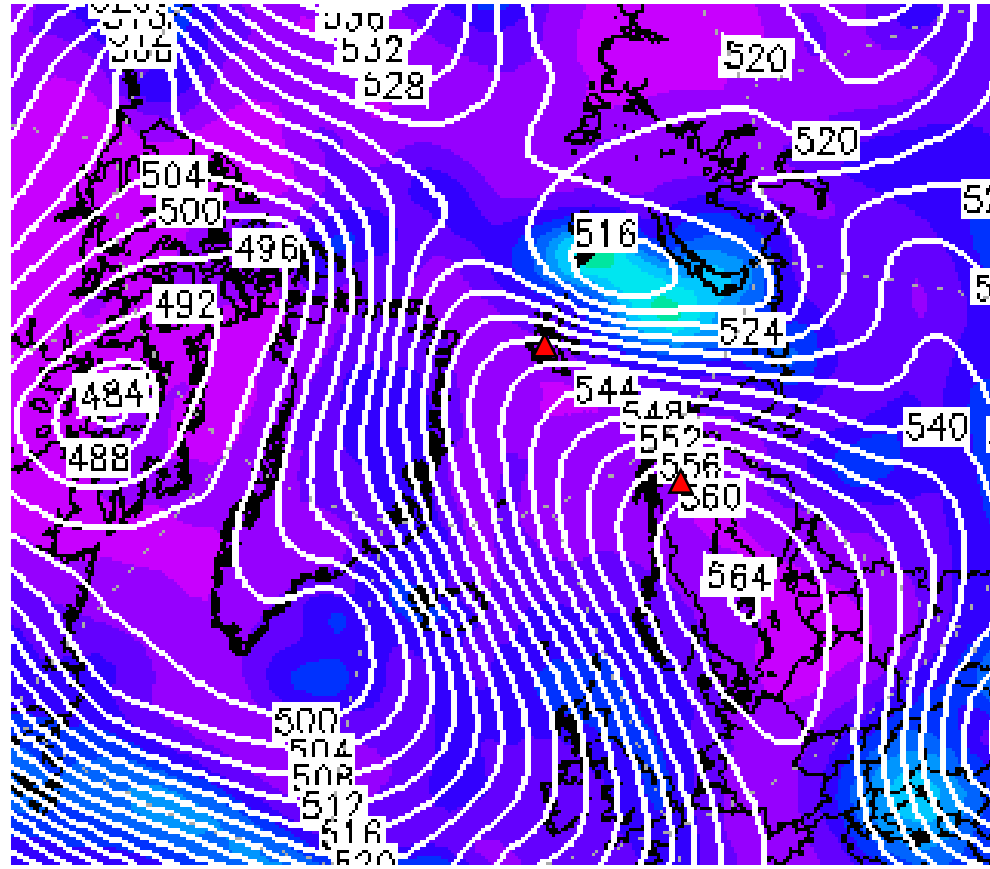
Mean Sea Level Pressure (hPa)
Valid: 2022-03-12T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)

Mean Sea Level Pressure (hPa)
Valid: 2022-03-12T00:00:00Z (initialisation: 2022-03-09T00:00:00Z)



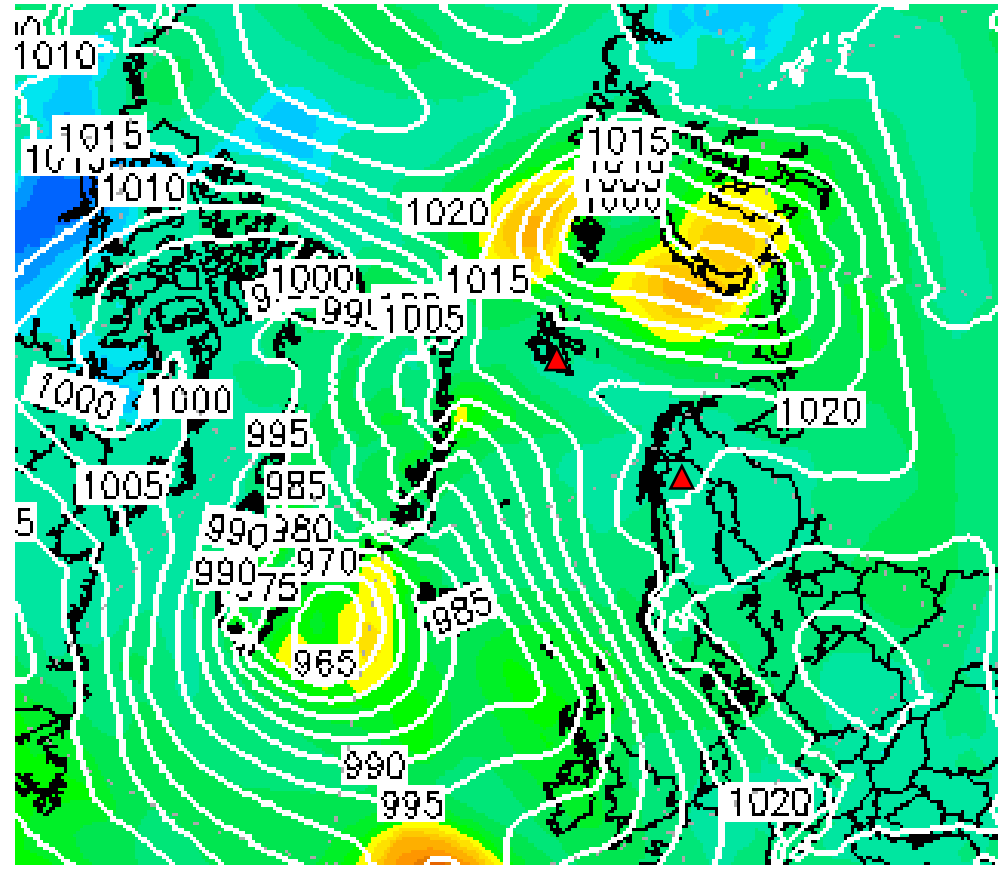
Saturday, 2022-03-12 00 UTC (+72h)

500 hPa Geopot



gpdam

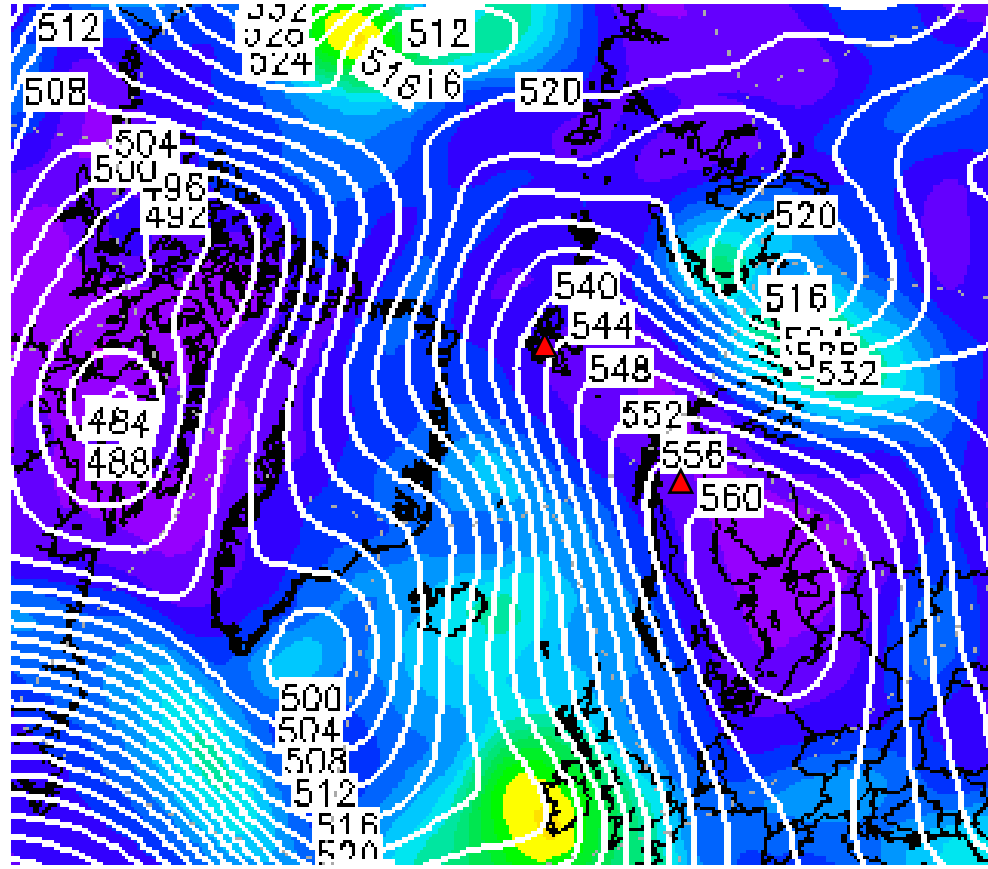
Sfc pressure



hPa

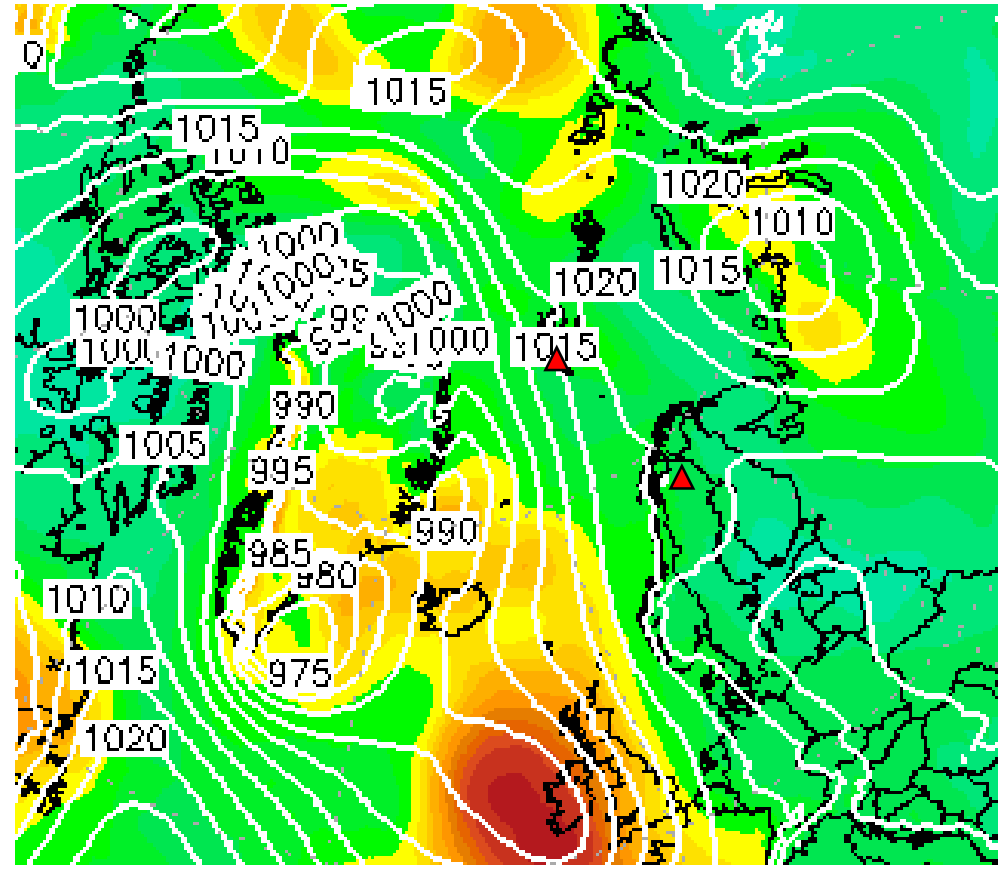
Sunday, 2022-03-06 00 UTC (+96h)

500 hPa Geopot



gpdam

Sfc pressure



hPa

Summary

Summary: Weather Briefing 2022-03-02

- **Overall:**
 - Weak warm air intrusion is followed by a stronger one, calm conditions in between
- **Thursday, 2022-03-10:**
 - Warm air intrudes into Barents Sea
- **Friday, 2022-03-11:**
 - Calm conditions over Fram Strait
 - Old warm air intrusion propagates eastwards
- **Saturday, 2022-03-12:**
 - Strong warming of air masses over sea ice, reaching far into the North
 - Slight rain (snow) over open ocean (sea ice) region in Fram Strait
 - Bad visibility in LYR in the evening
- **Sunday, 2022-03-13:**
 - Warm air intrusion continues travelling northwards through Fram Strait
 - Warming and precip (snow) even at the North Pole
 - Decent certainty in ensemble members in 500 hPa