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**SHETLAND RACE**

# Weather Brief - Shetland Race 2022

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Statsmeteorolog

14.01.2016

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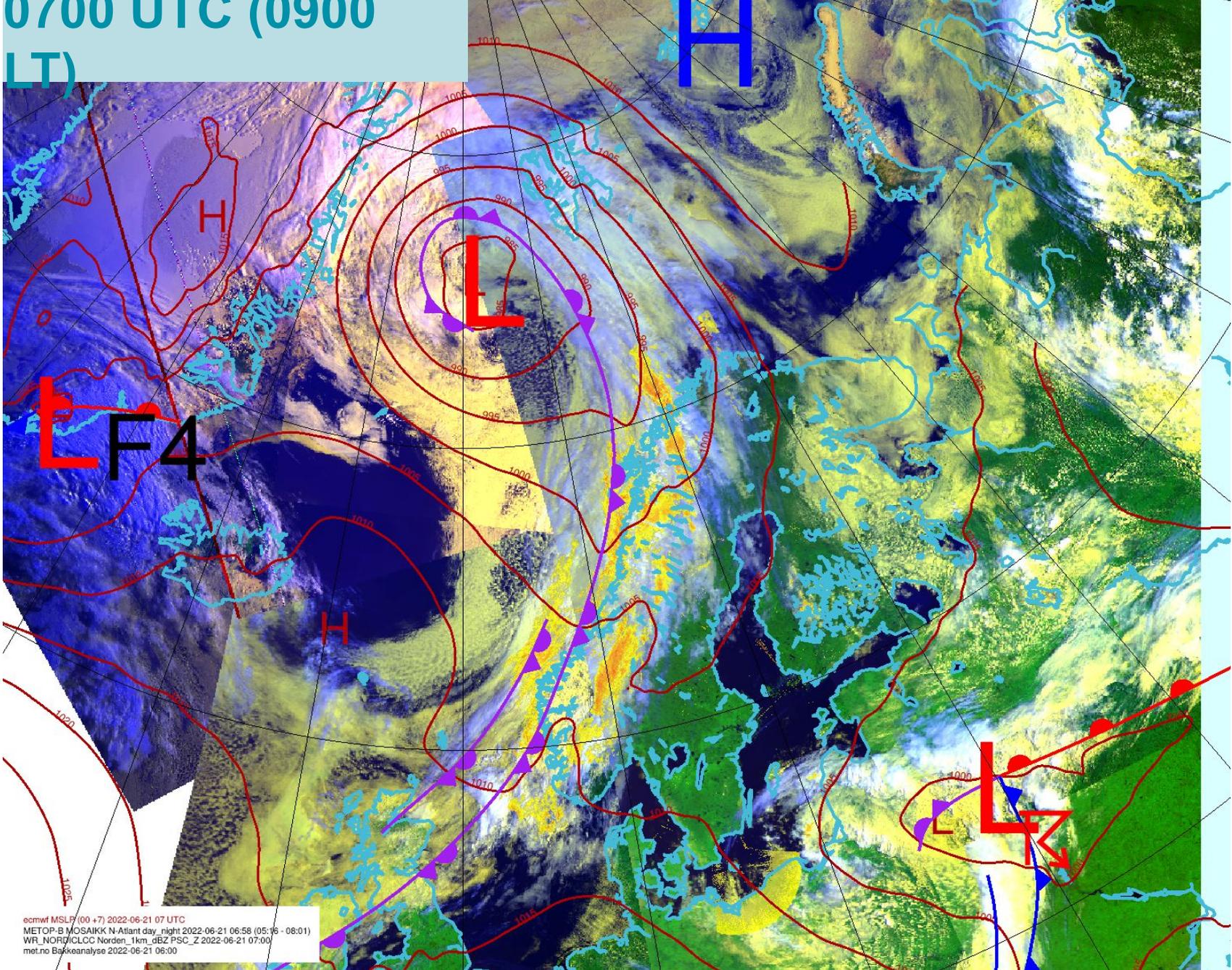


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**First, the weather situation....**

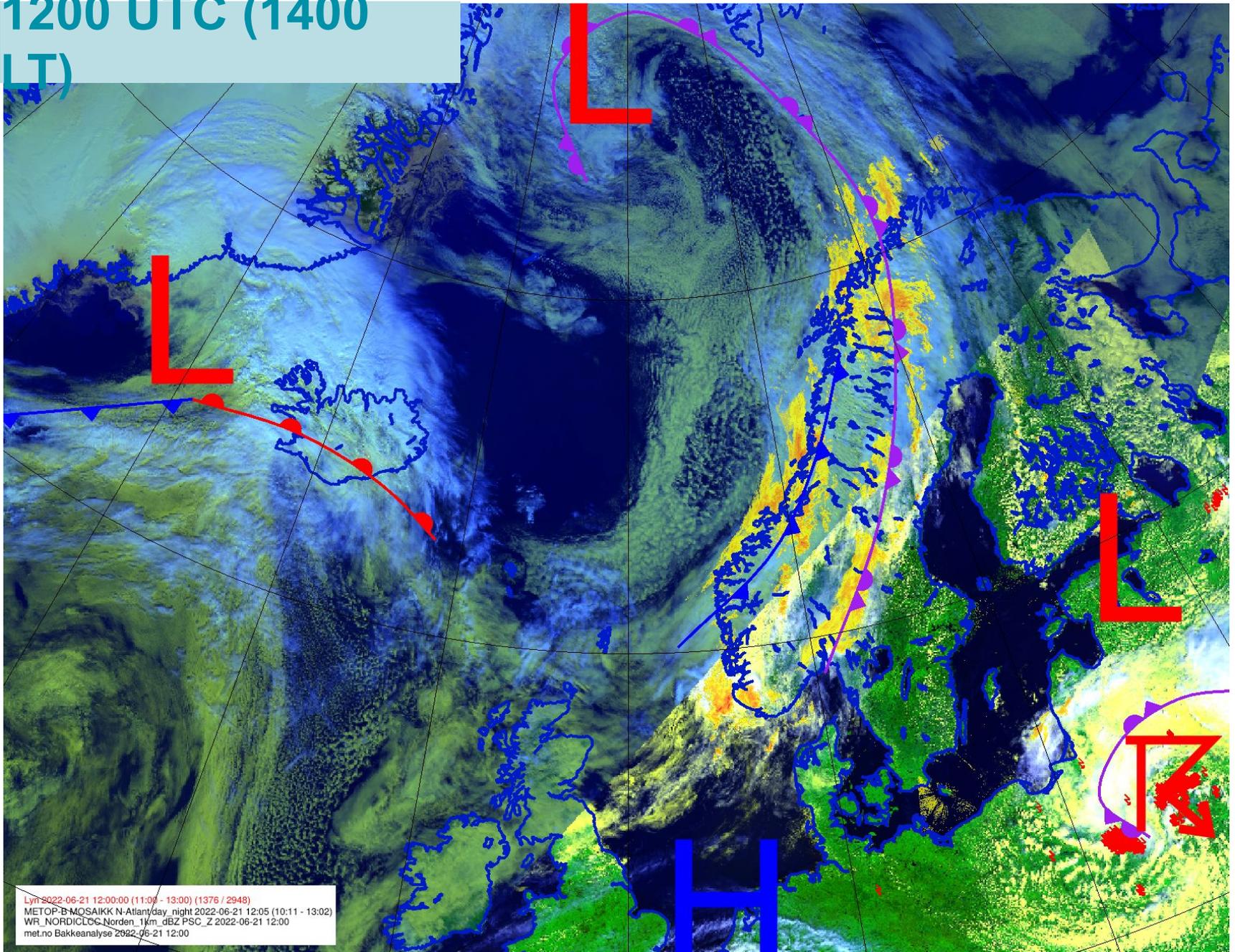


0700 UTC (0900 LT)

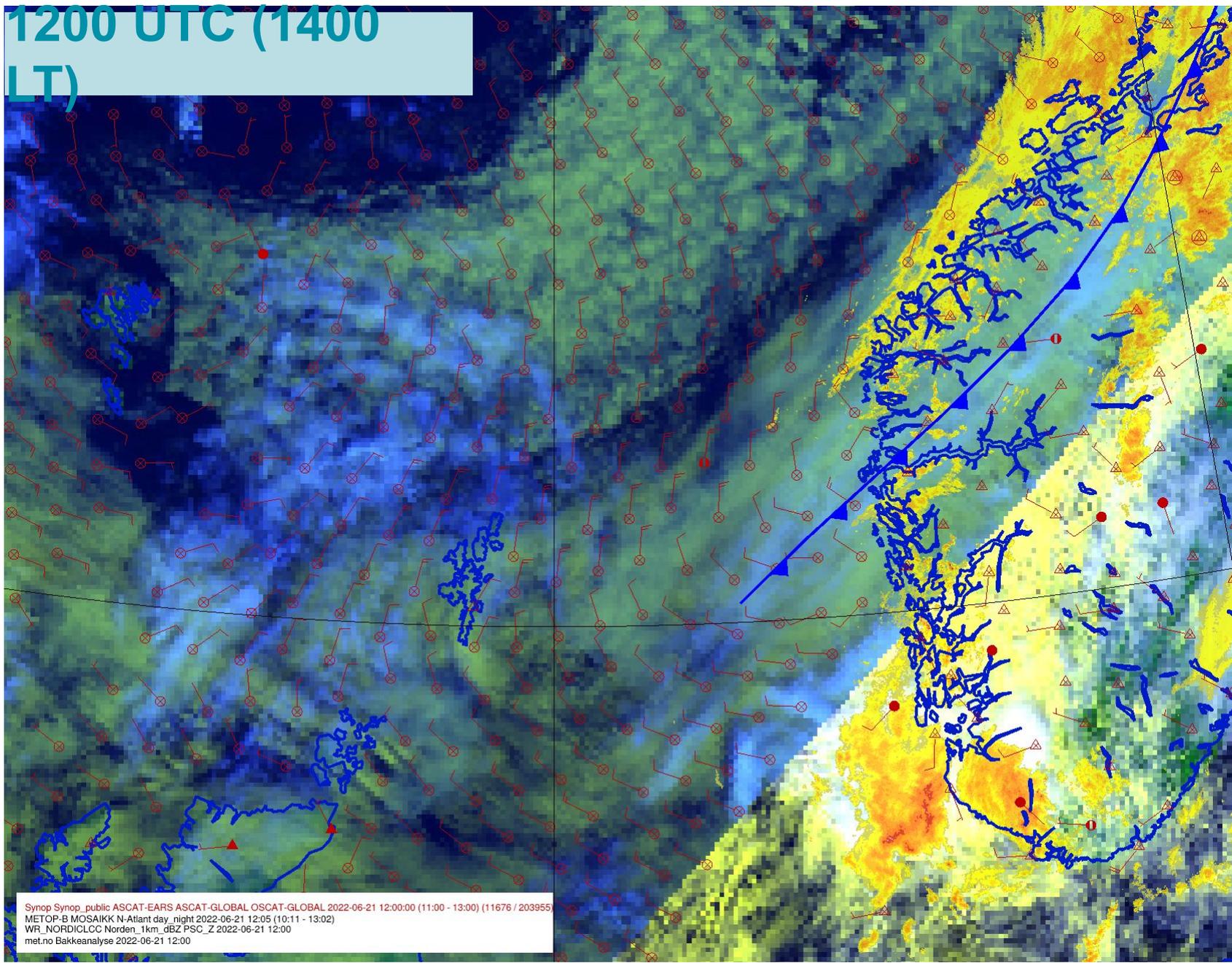


ecmwf MSLP (00 +7) 2022-06-21 07 UTC  
METOP-B MOSAIKK N-Atlant day\_night 2022-06-21 06:58 (05:16 - 08:01)  
WR\_NORD/CLCC Norden\_1km\_dBZ\_PSC\_Z 2022-06-21 07:00  
met.no Bakkeanalyse 2022-06-21 06:00

1200 UTC (1400  
LT)



1200 UTC (1400 LT)



Synop Synop\_public ASCAT-EARS ASCAT-GLOBAL OSCAT-GLOBAL 2022-06-21 12:00:00 (11:00 - 13:00) (11676 / 203955)  
METOP-B MOSAIKK N-Atlant day\_night 2022-06-21 12:05 (10:11 - 13:02)  
WR\_NORDICLCC Norden\_1km\_dBZ\_PSC\_Z 2022-06-21 12:00  
met.no Bakkeanalyse 2022-06-21 12:00

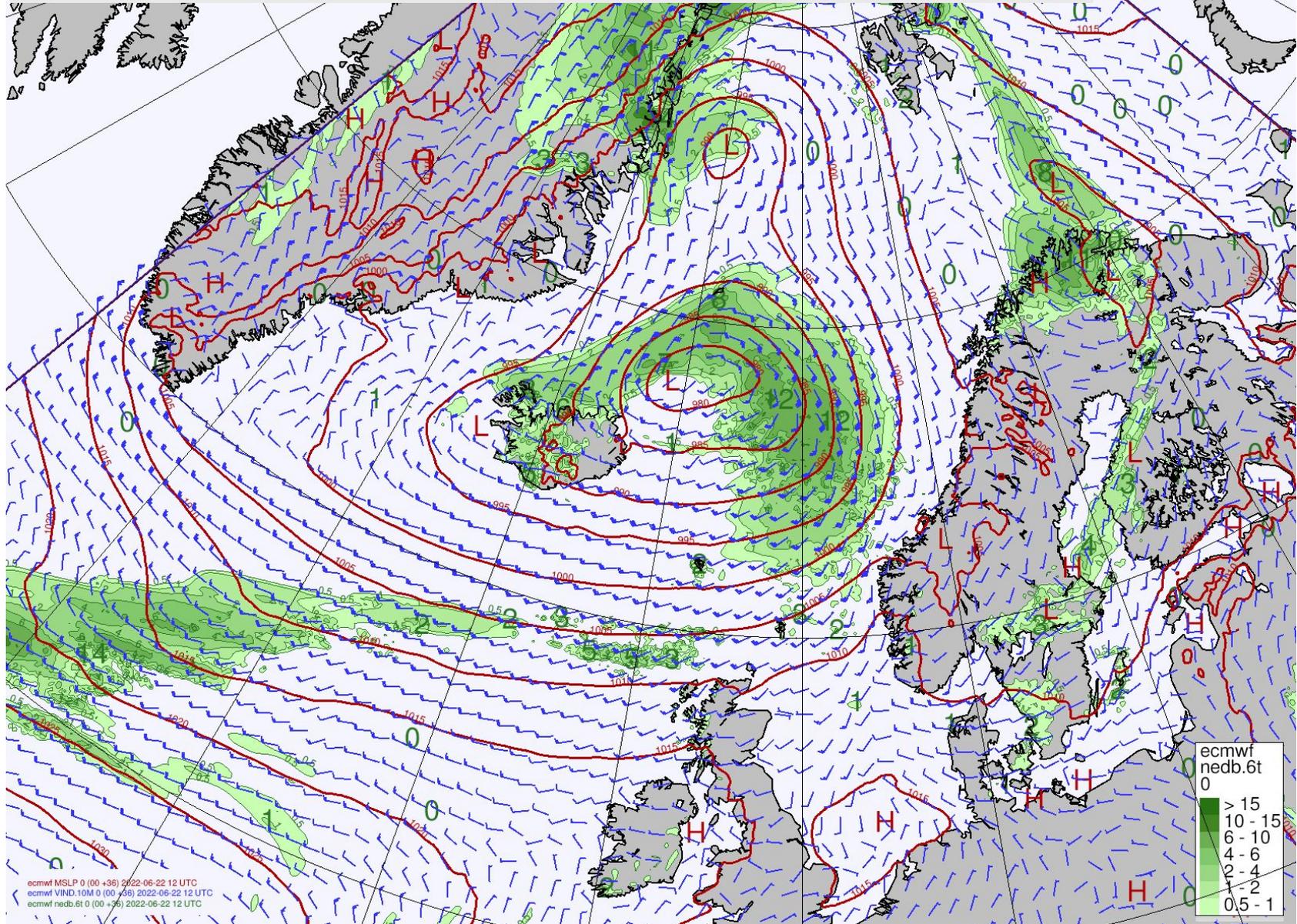


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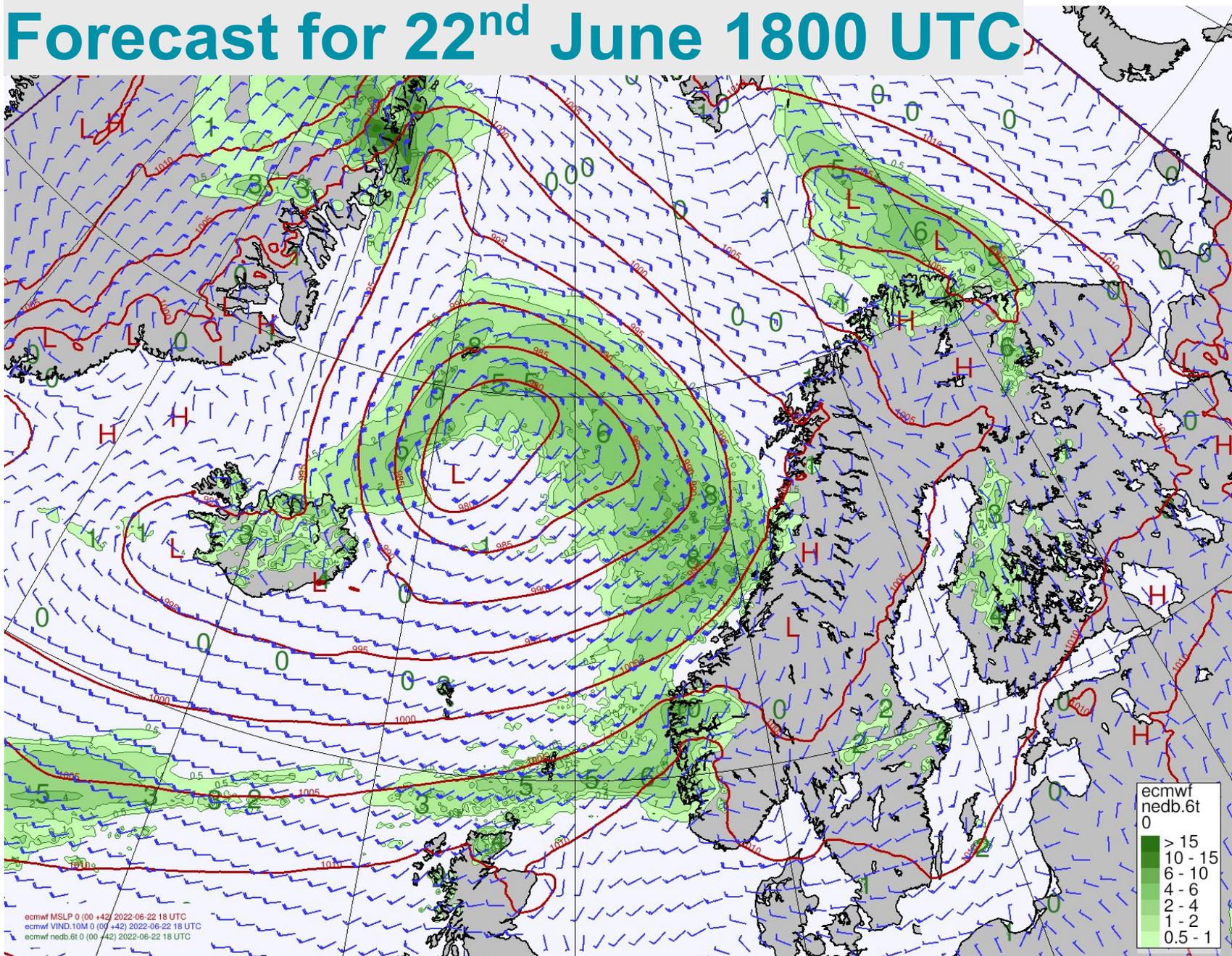
# The forecast: Pressure, Wind and Precipitation



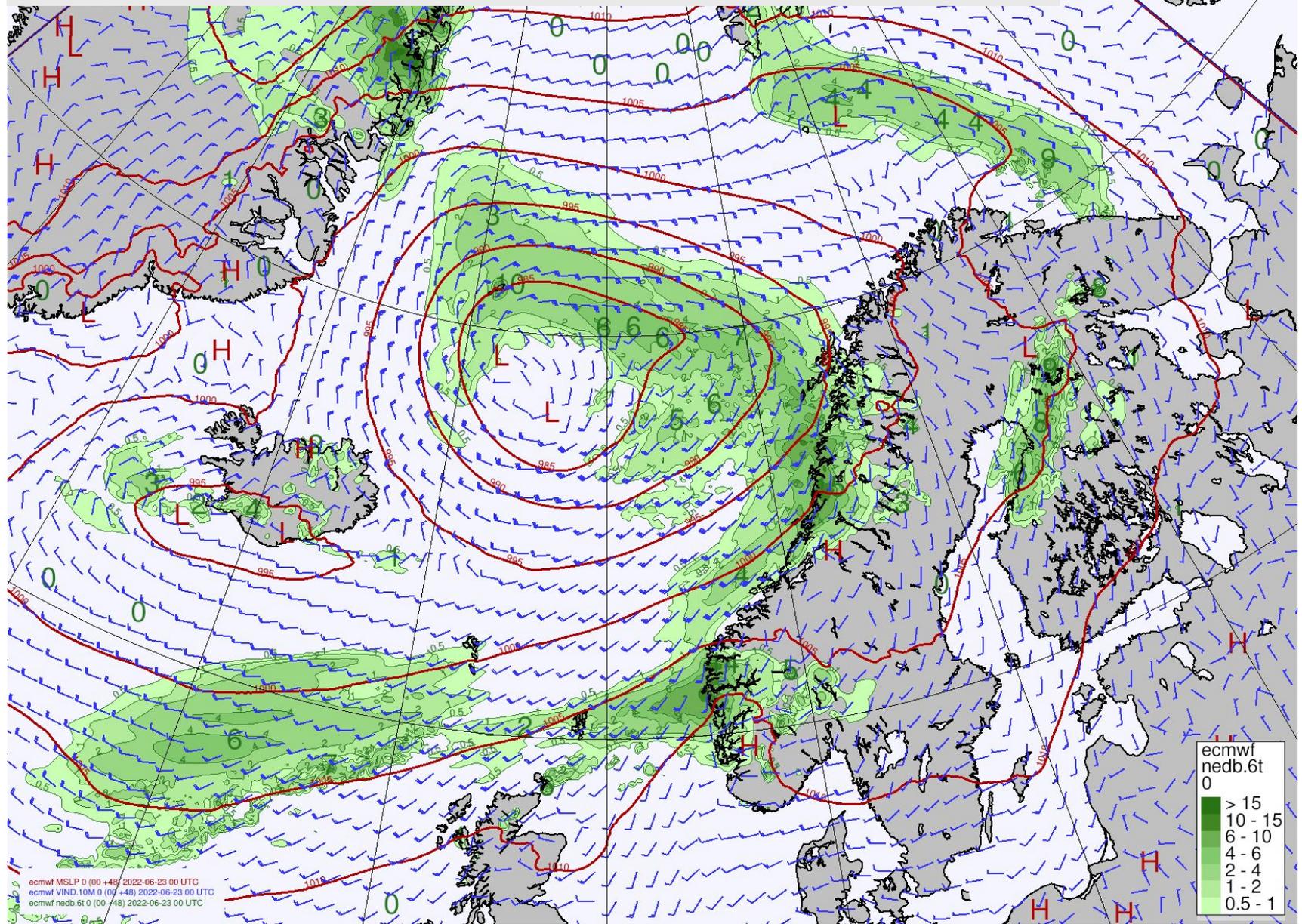
# Forecast for 22<sup>nd</sup> June 1200 UTC



# Forecast for 22<sup>nd</sup> June 1800 UTC

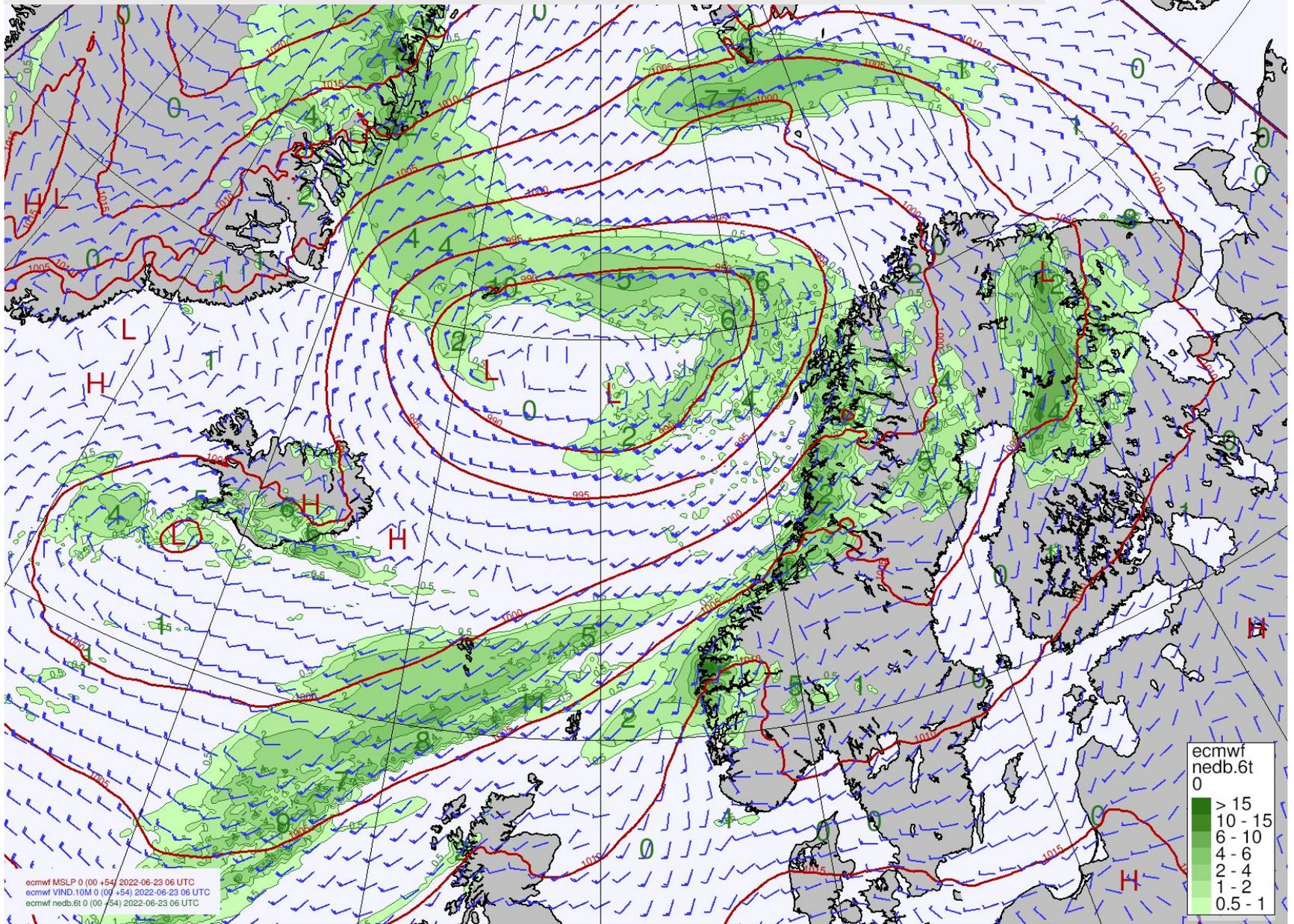


# Forecast for 23<sup>rd</sup> June 0000 UTC

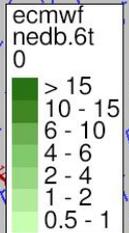


ecmwf MSLP 0 (00 +48) 2022-06-23 00 UTC  
ecmwf VIND.10M 0 (00 +48) 2022-06-23 00 UTC  
ecmwf nedb.6t 0 (00 +48) 2022-06-23 00 UTC

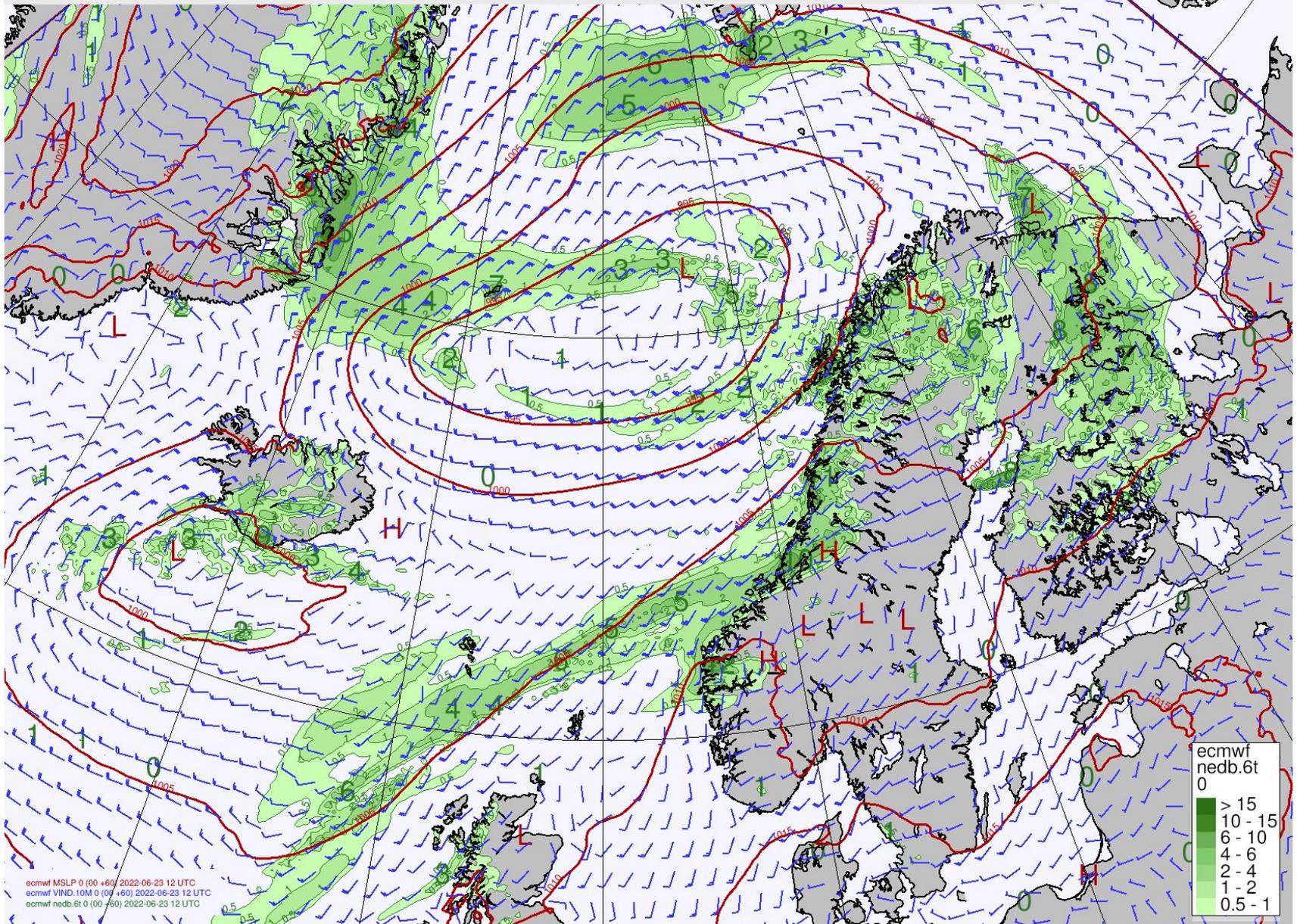
# Forecast for 23<sup>rd</sup> June 0600 UTC



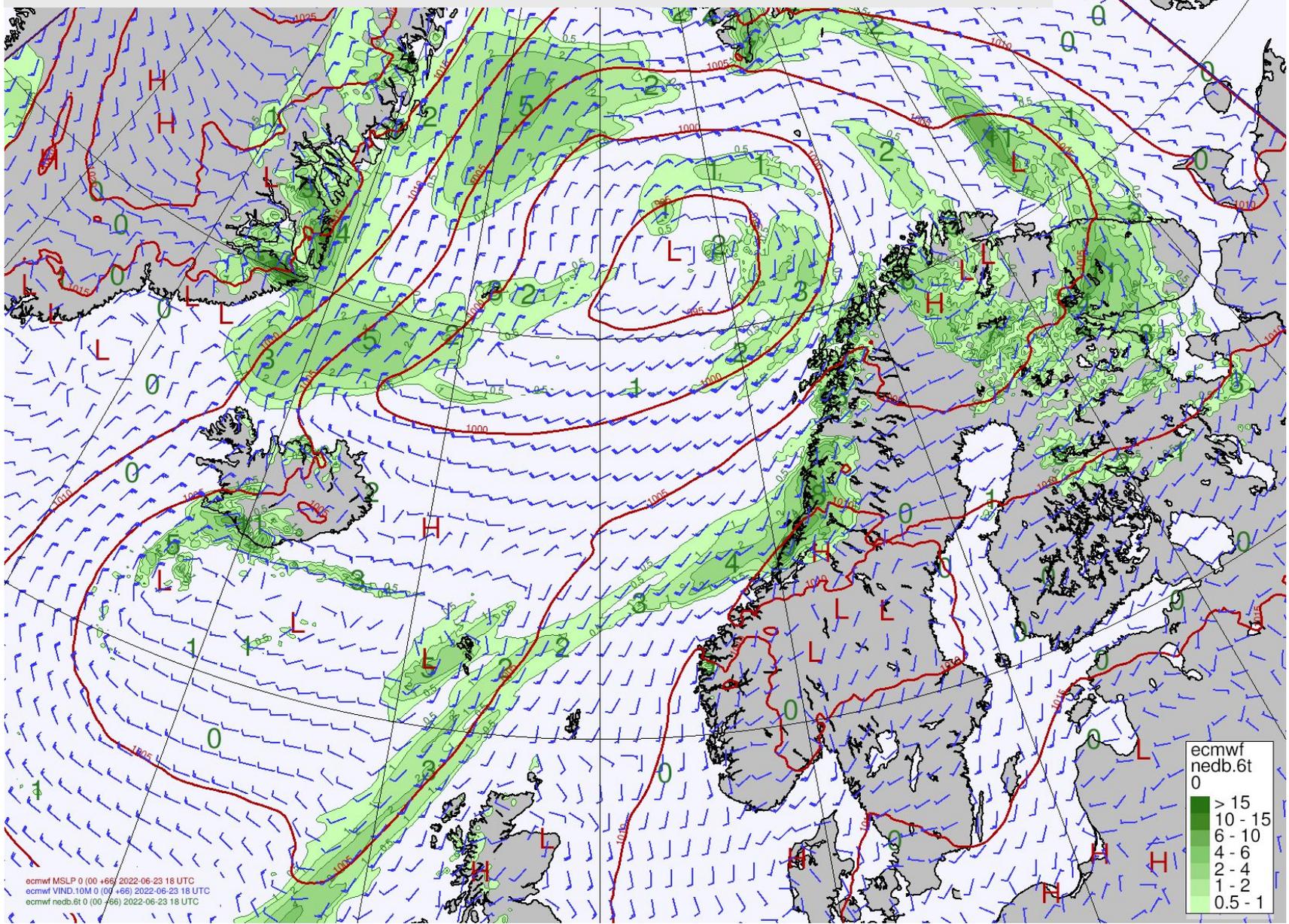
ecmwf MSLP 0 (00 +54) 2022-06-23 06 UTC  
ecmwf VIND.10M 0 (07 +54) 2022-06-23 06 UTC  
ecmwf nedb.6t 0 (00 +54) 2022-06-23 06 UTC



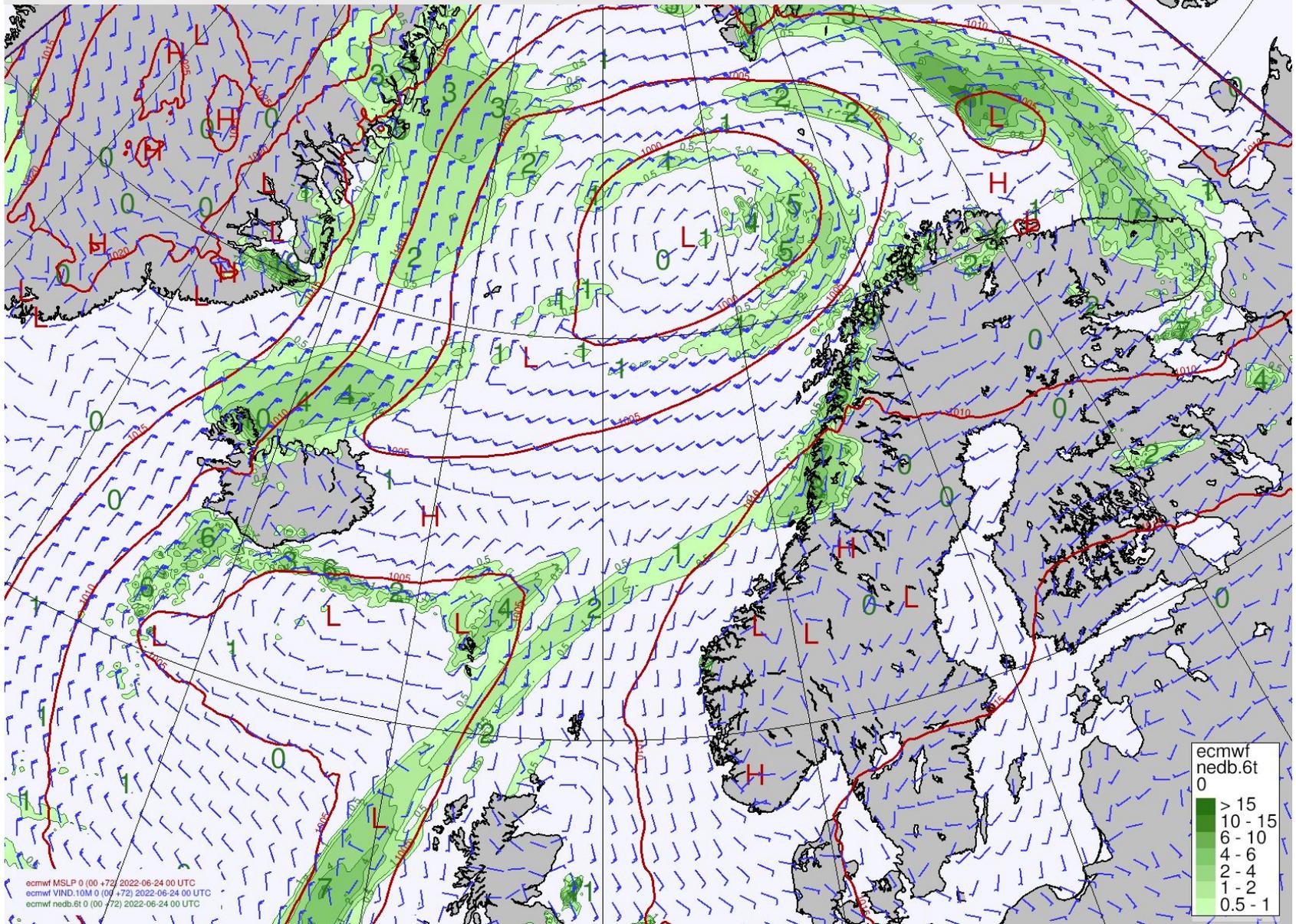
# Forecast for 23<sup>rd</sup> June 1200 UTC



# Forecast for 23<sup>rd</sup> June 1800 UTC

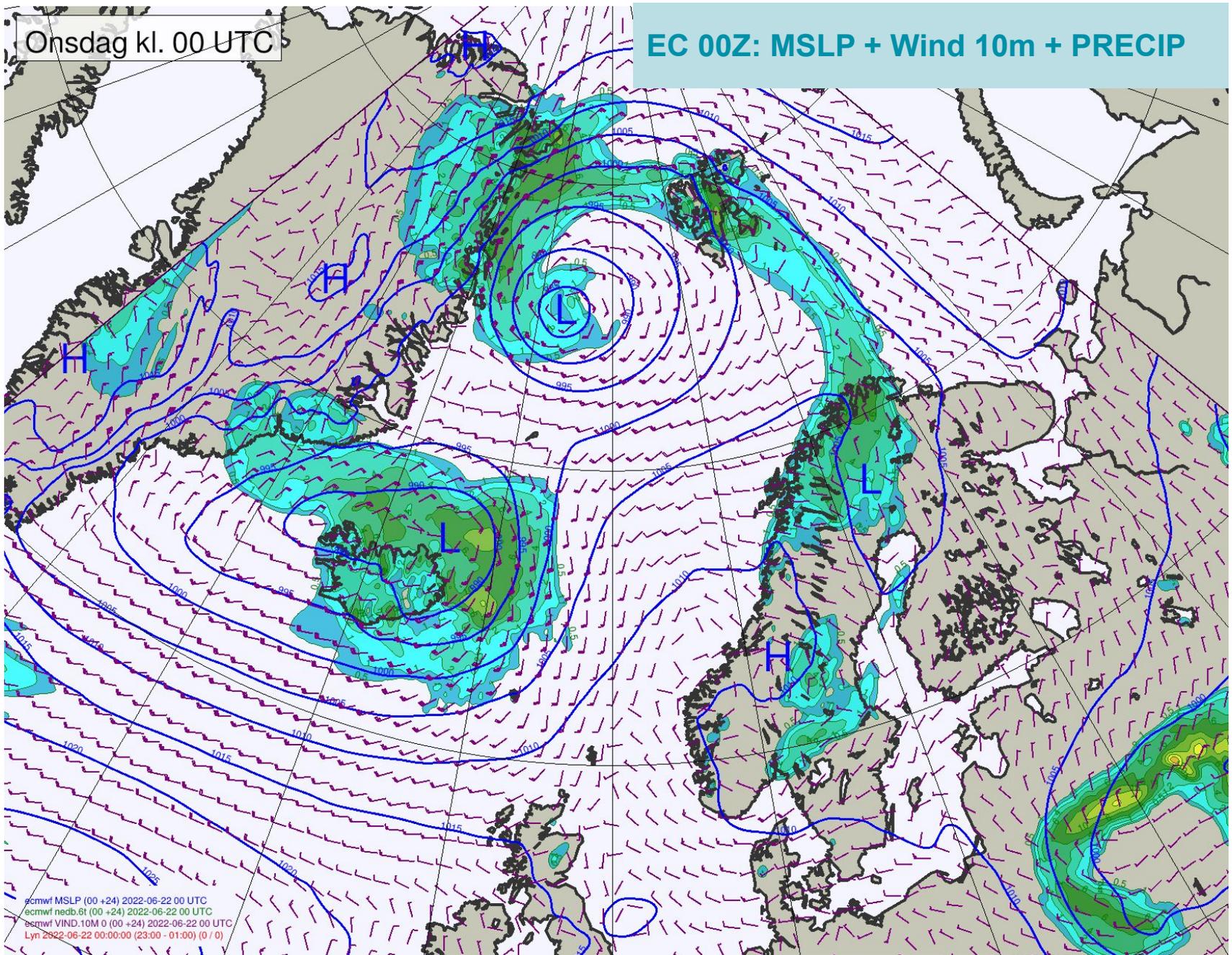


# Forecast for 24<sup>th</sup> June 0000 UTC

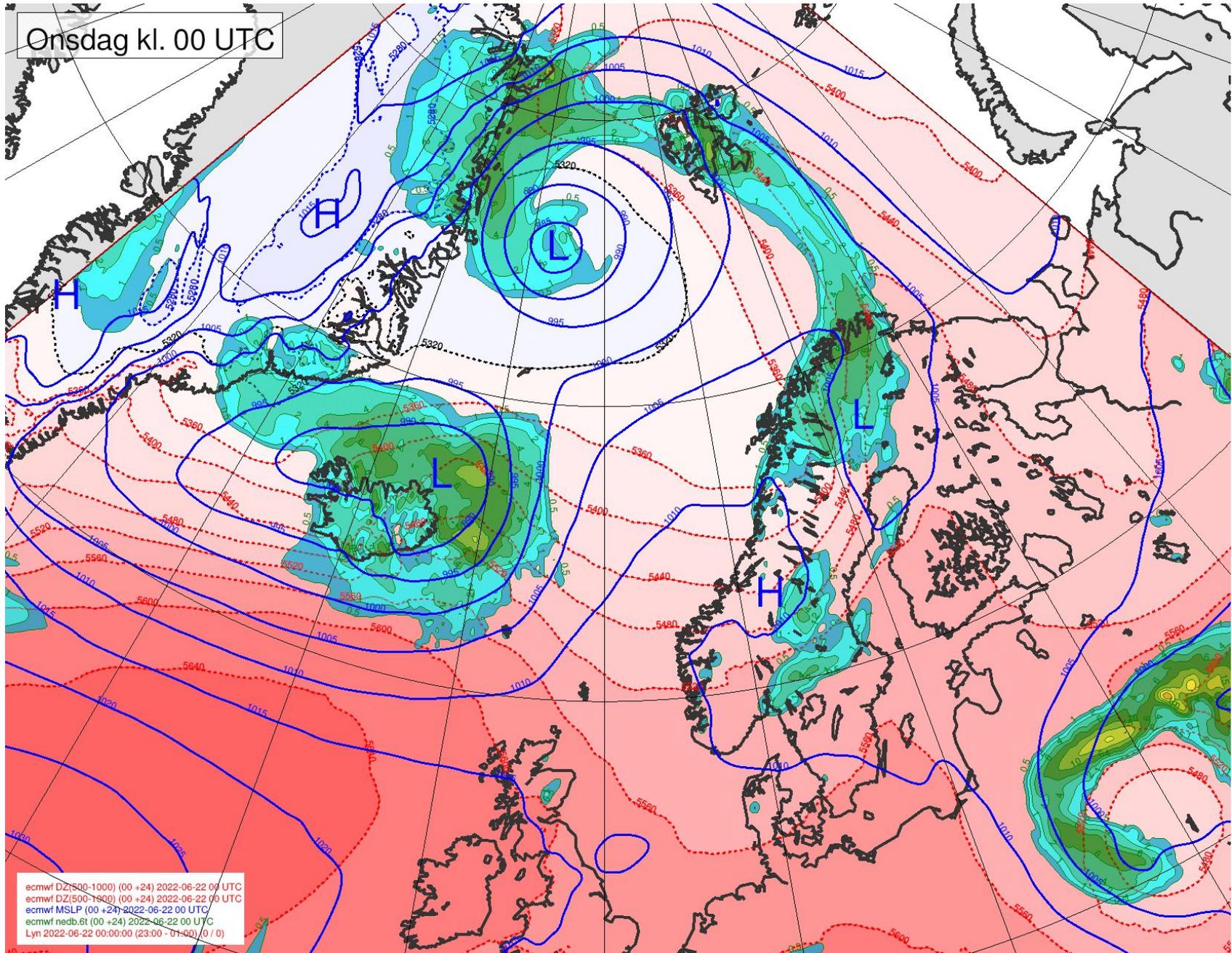


Onsdag kl. 00 UTC

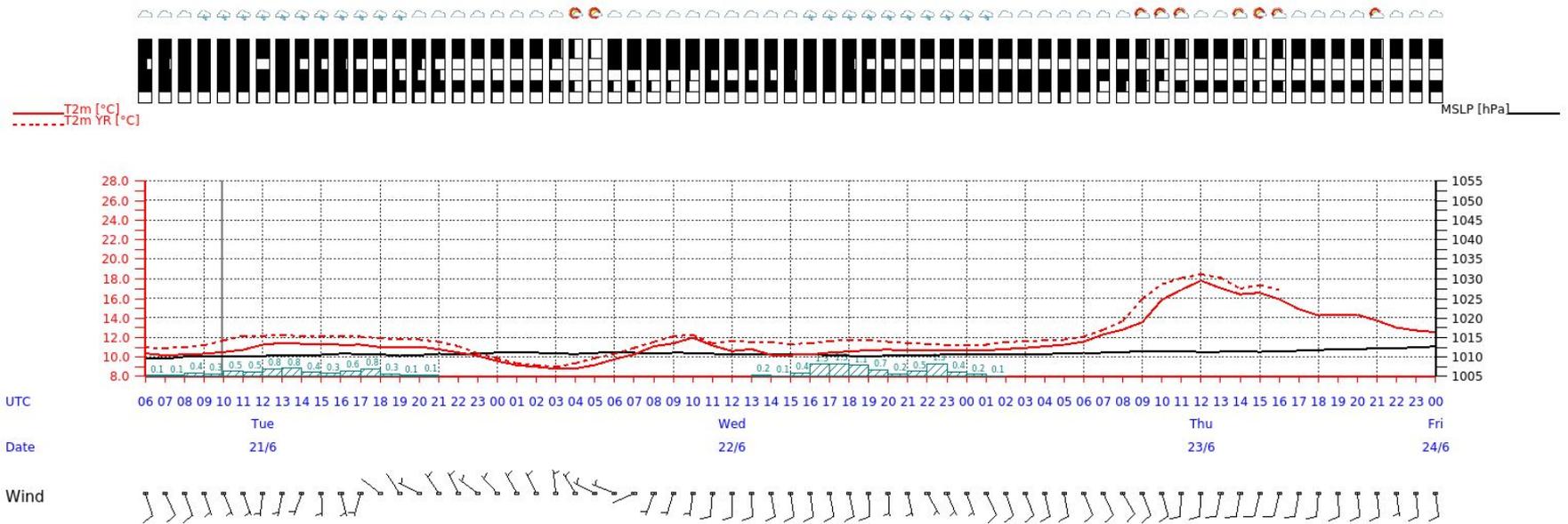
# EC 00Z: MSLP + Wind 10m + PRECIP



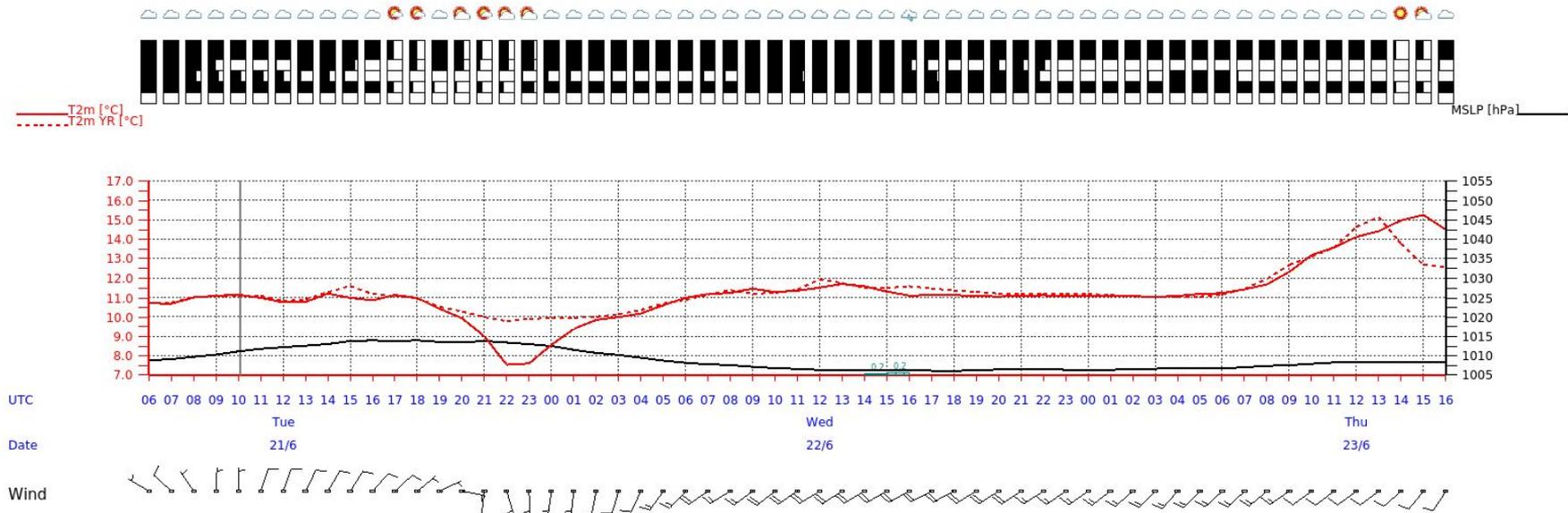
Onsdag kl. 00 UTC



# Bergen

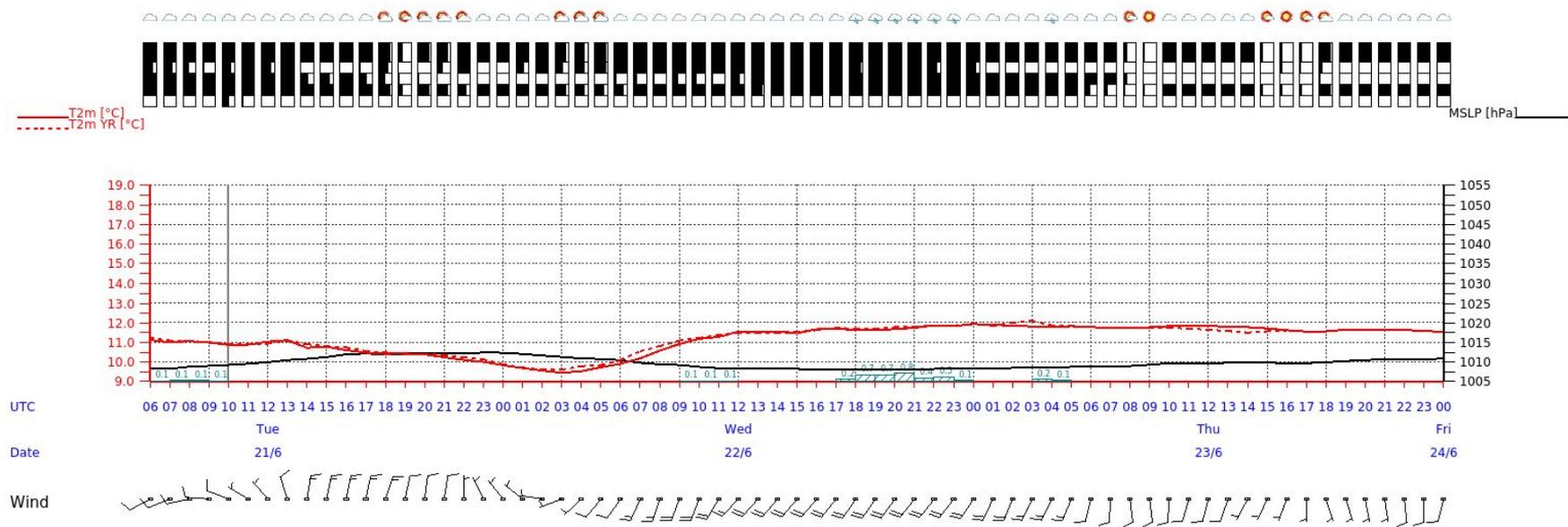


# Lerwick



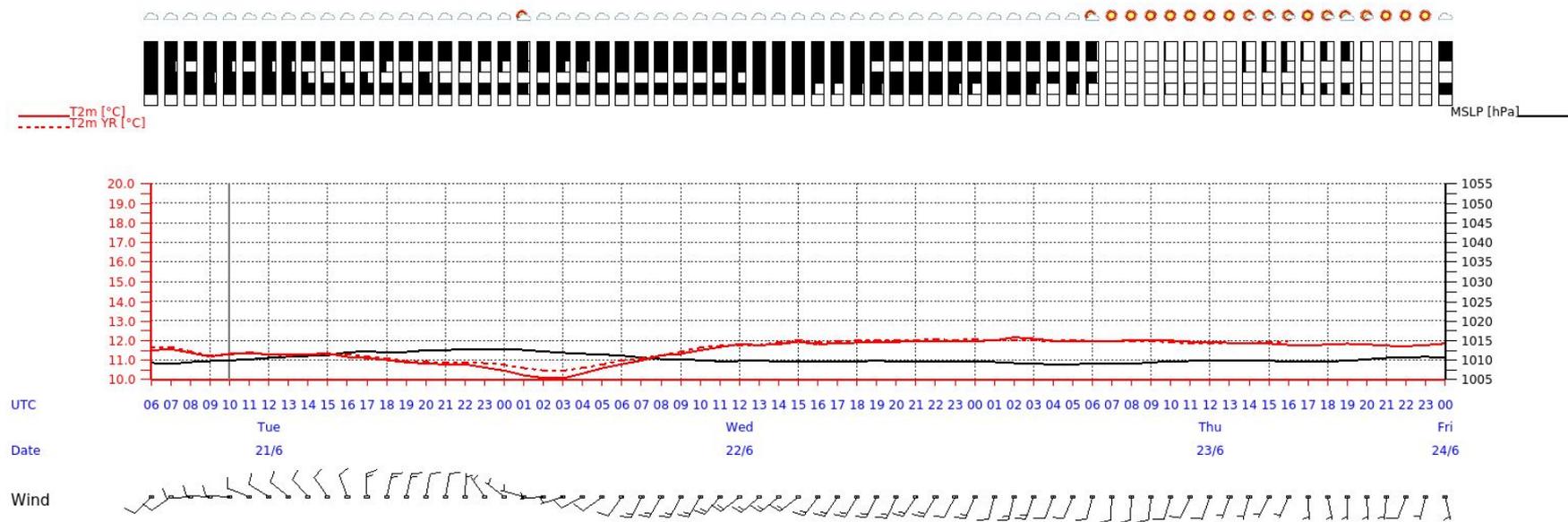
# Oseberg syd

60°24' N 2°48' E



# Heimdal

59°34' N 2°13' E





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# Summary:

- Low pressure activity on the Norwegian Sea and from west dominates the weather picture. The two systems move slowly northeast over the next days.
- Strong winds are expected from Wednesday afternoon.
- The high pressure ridge extends temporarily northwards.
- Uncertainty related to the position and movement of these systems.

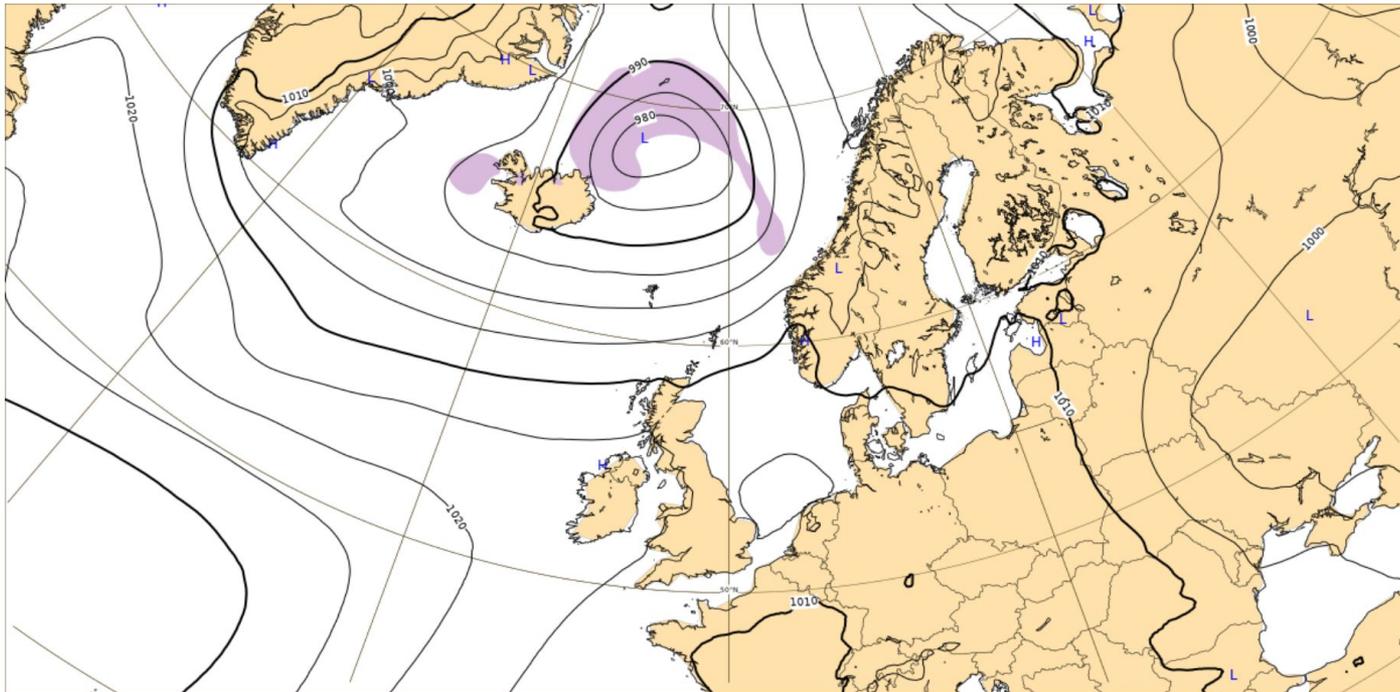


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# The uncertainty in the forecasts

# Ensemble mean and spread for mean sea level pressure

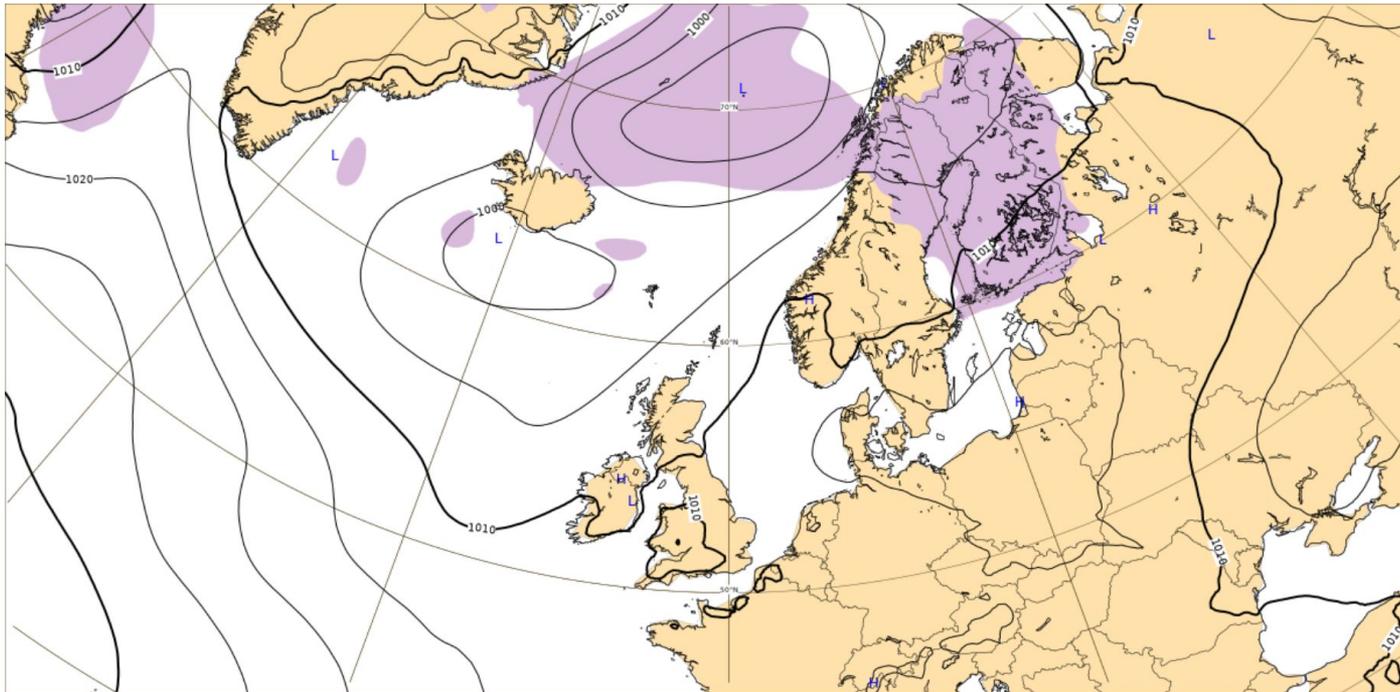
Base time: Tue 21 Jun 2022 00 UTC Valid time: Wed 22 Jun 2022 12 UTC (+36h) Area : North West Europe



==== Ensemble mean for mean sea level pressure (hPa)

# Ensemble mean and spread for mean sea level pressure

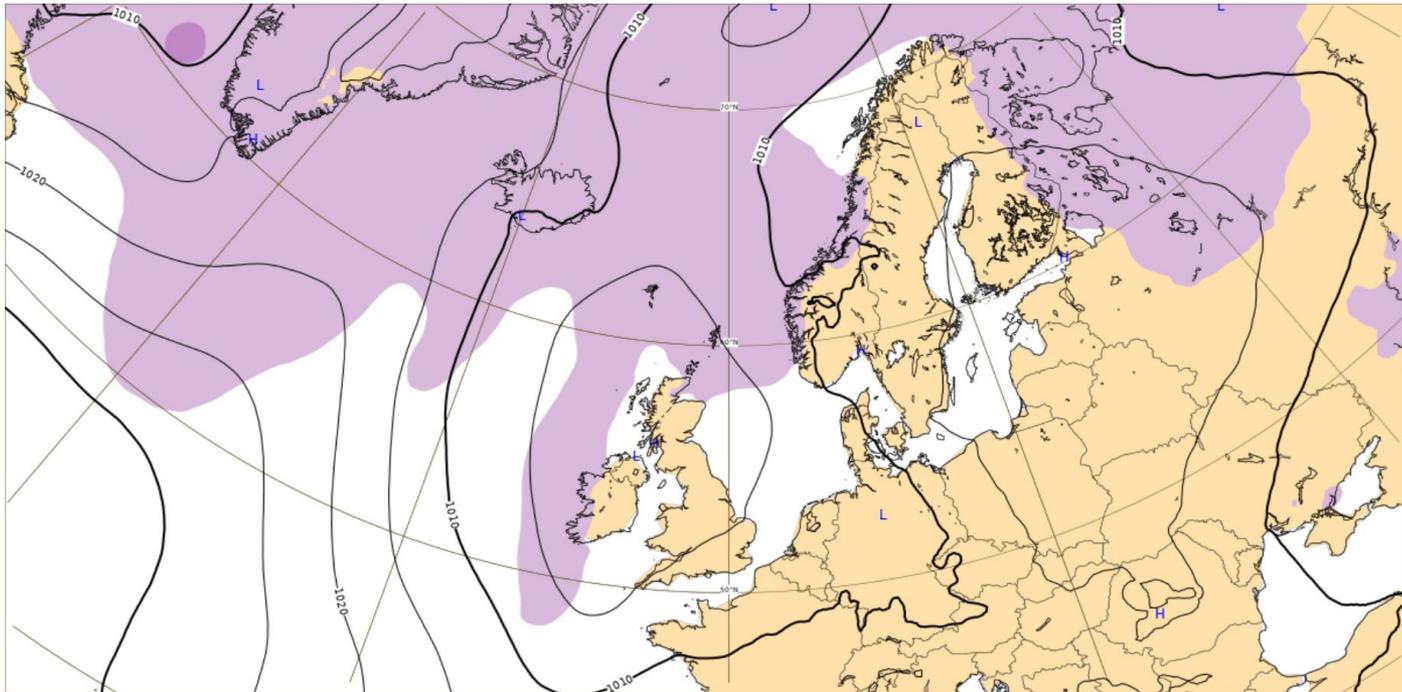
Base time: Tue 21 Jun 2022 00 UTC Valid time: Thu 23 Jun 2022 12 UTC (+60h) Area : North West Europe



———— Ensemble mean for mean sea level pressure (hPa)

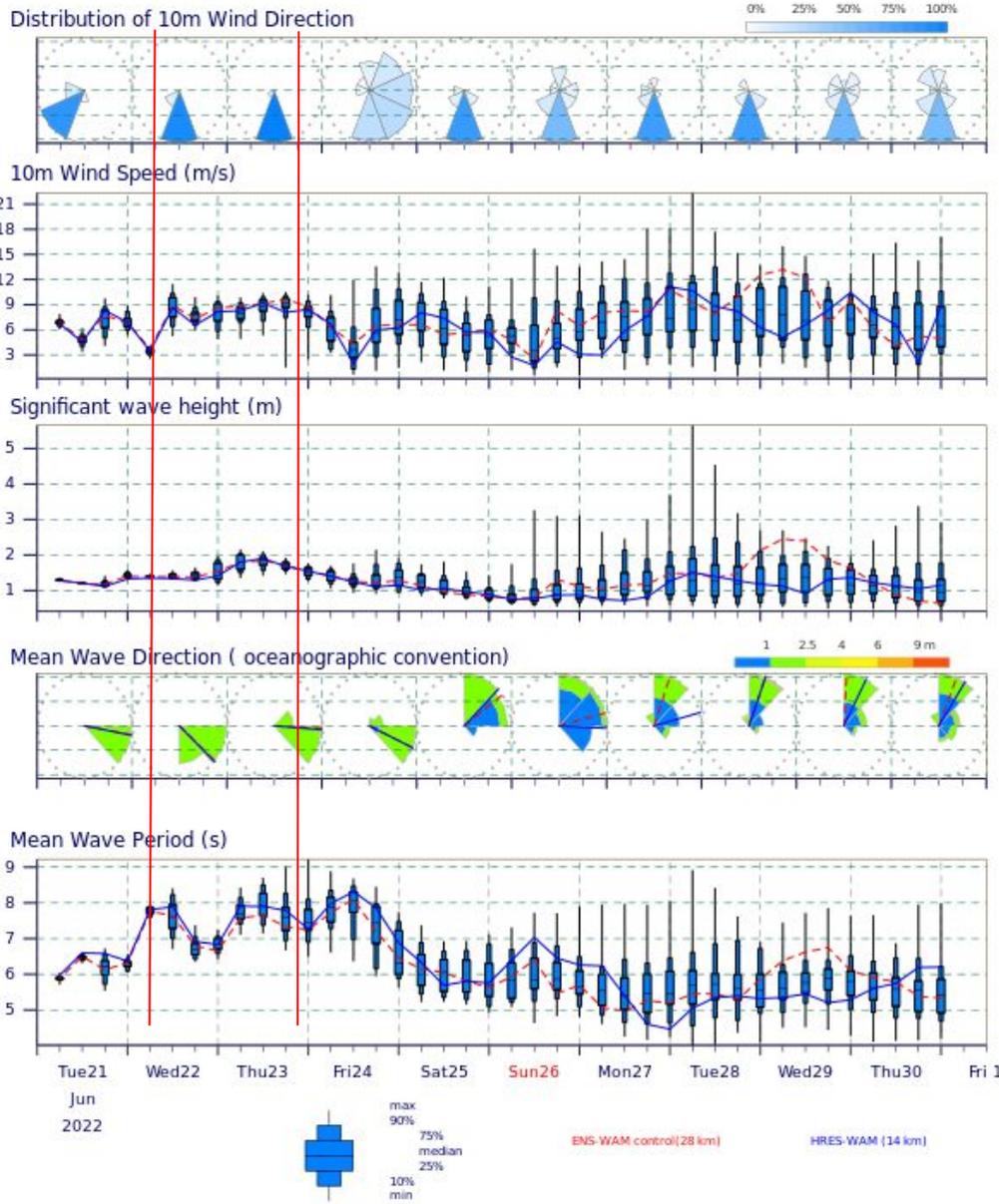
# Ensemble mean and spread for mean sea level pressure

Base time: Tue 21 Jun 2022 00 UTC Valid time: Fri 24 Jun 2022 12 UTC (+84h) Area : North West Europe



———— Ensemble mean for mean sea level pressure (hPa)

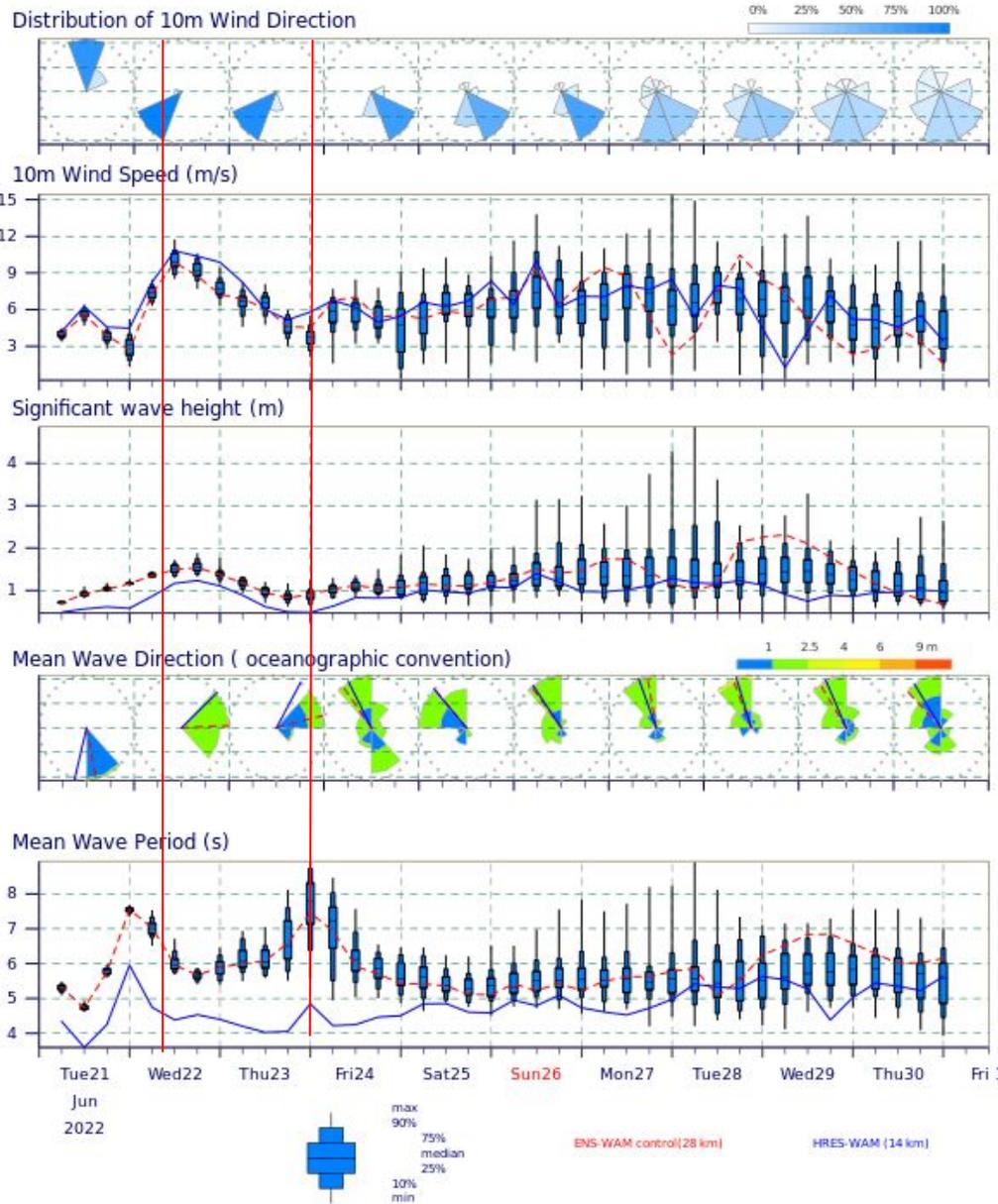
Wave ENSgram  
 60.23°N 4.58°E (ENS land point)  
 High resolution forecast and ENS distribution Tuesday 21 June 2022 00 UTC



Location outside  
 Øygarden

Wave ENSgram  
 60.37°N 0.84°W (ENS land point)  
 High resolution forecast and ENS distribution Tuesday 21 June 2022 00 UTC

Location outside  
 Lerwick





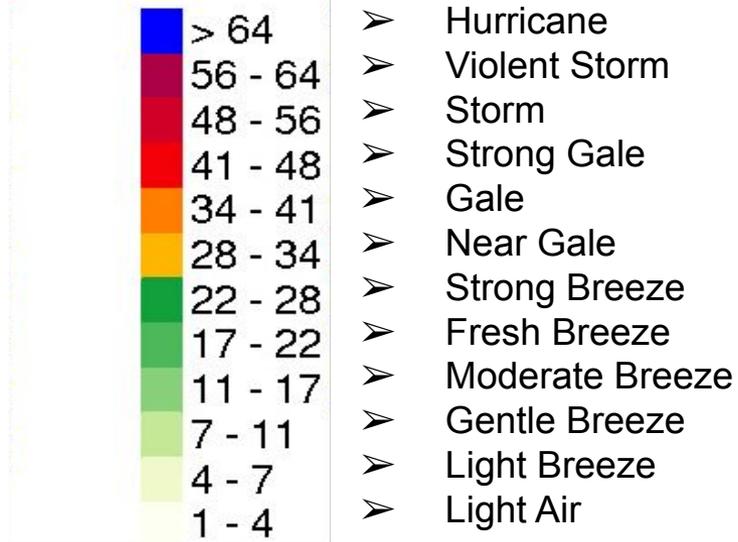
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**Wind**

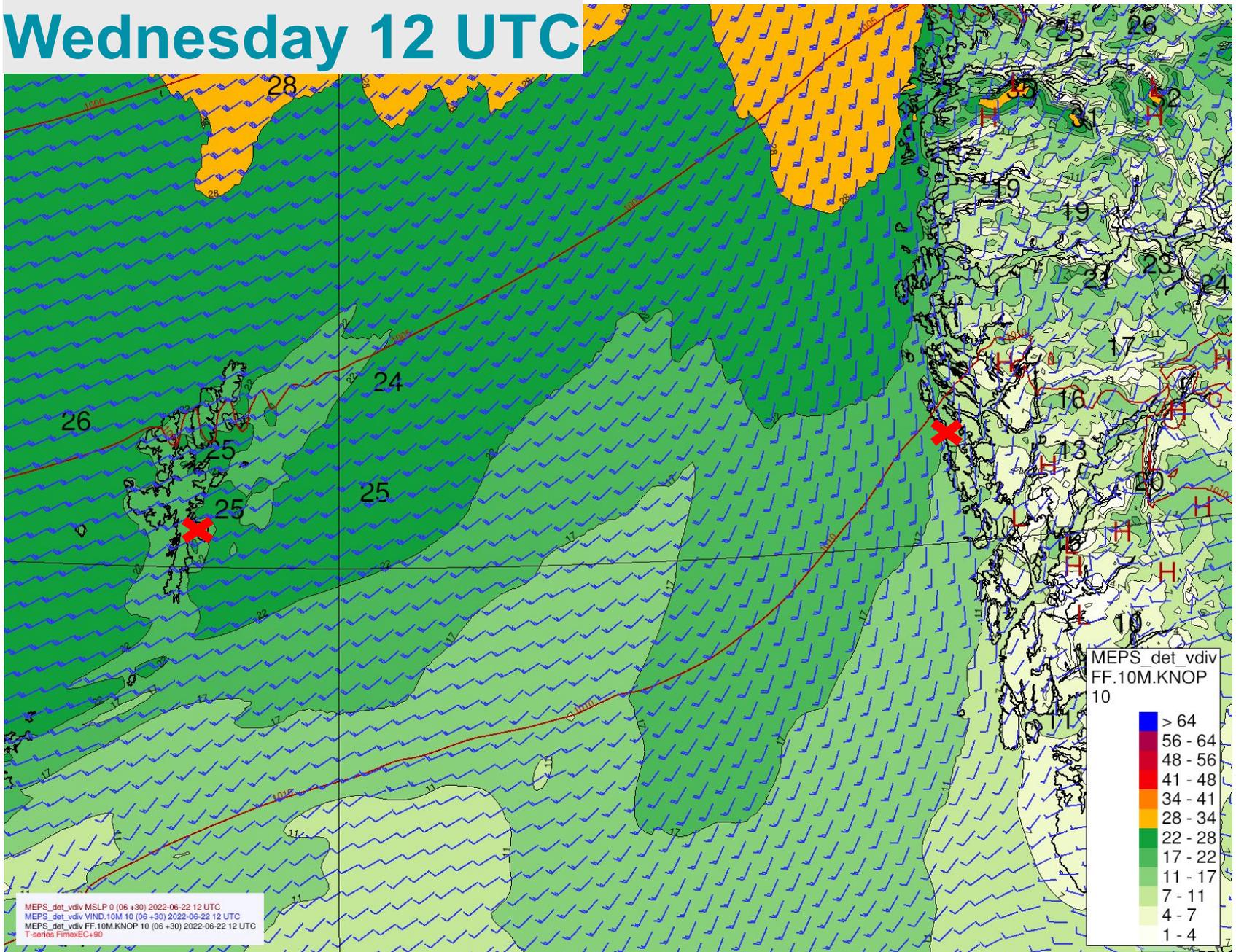


# Beaufort scale

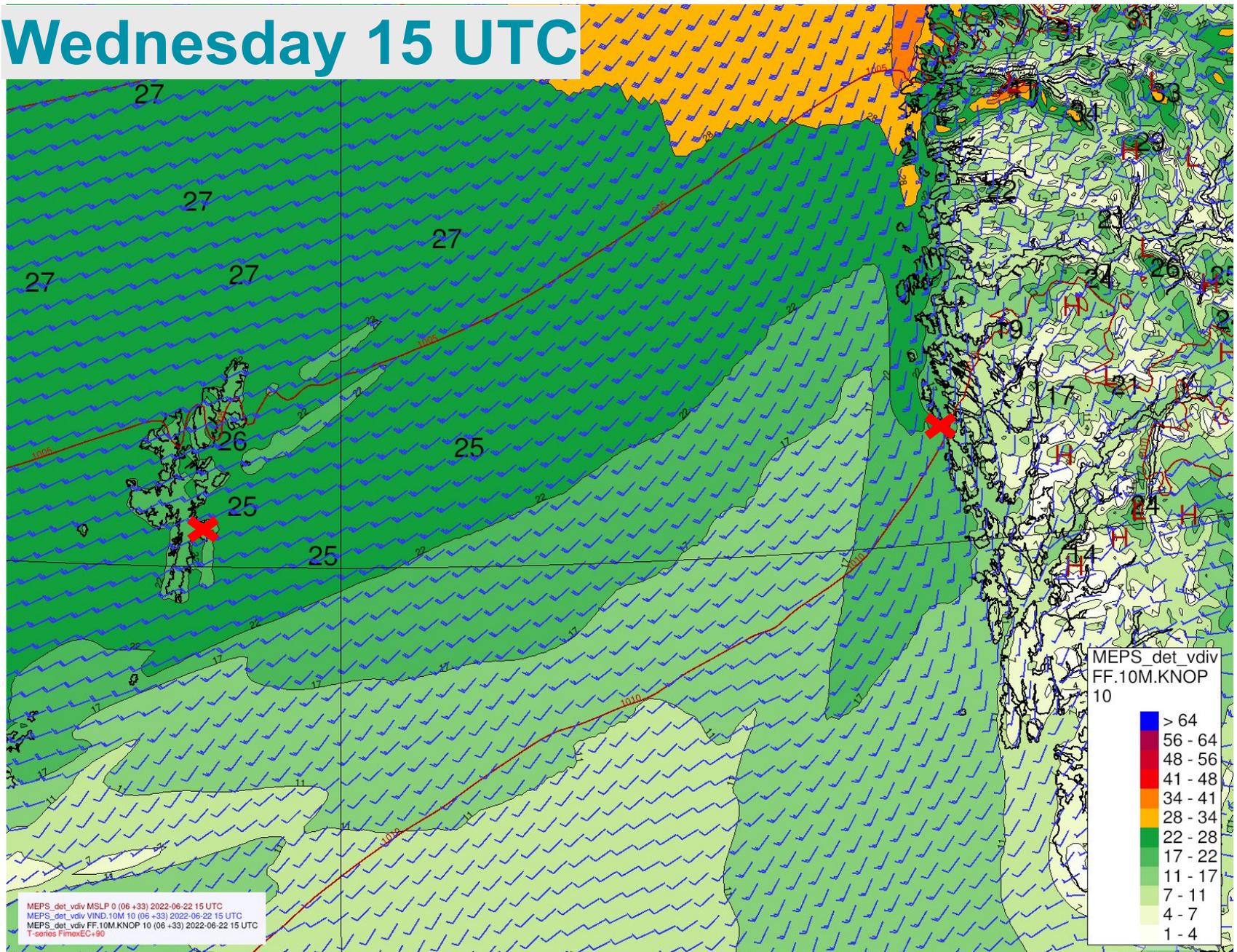
MEPS\_det\_vdiv  
FF.10M.KNOP  
10



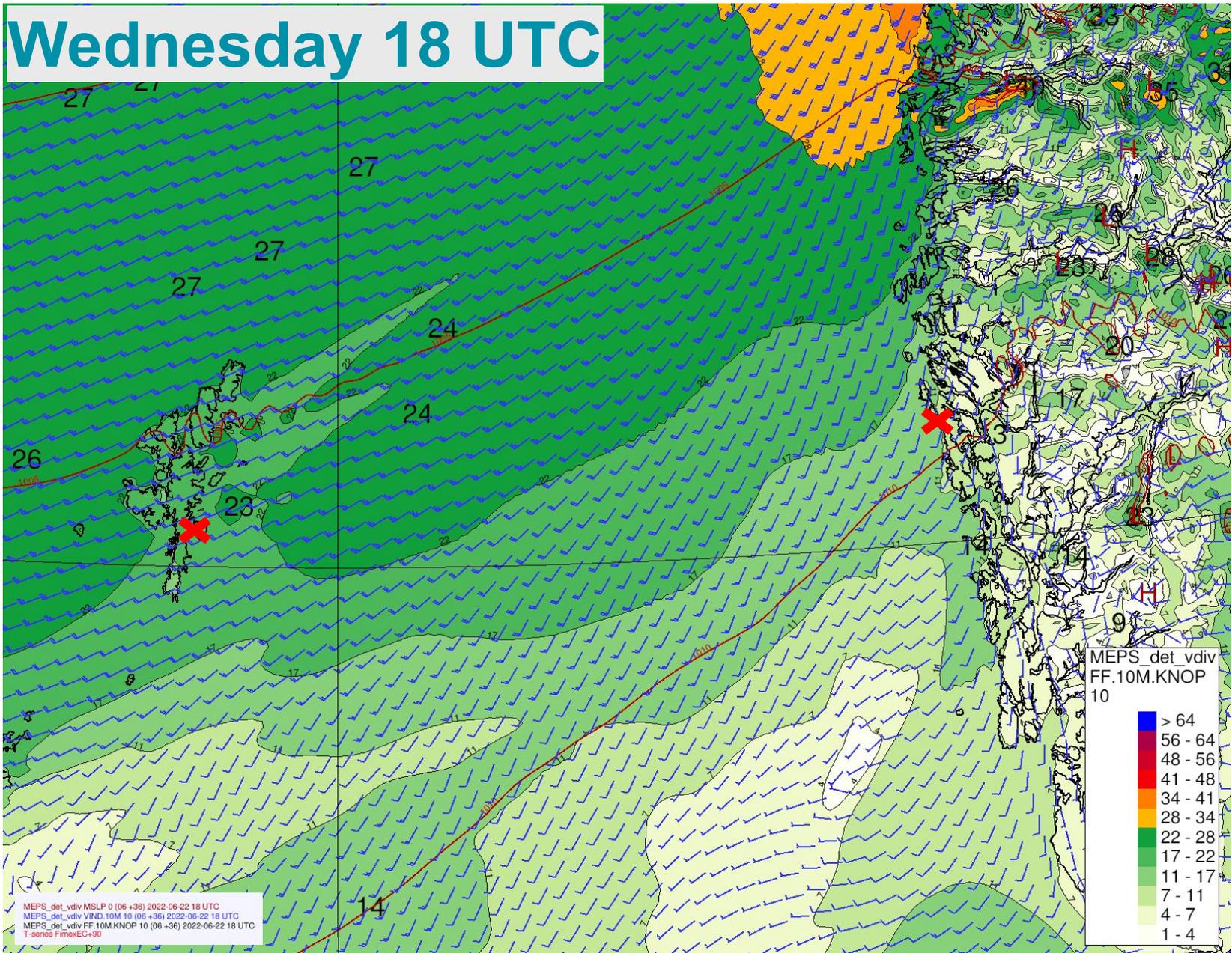
# Wednesday 12 UTC



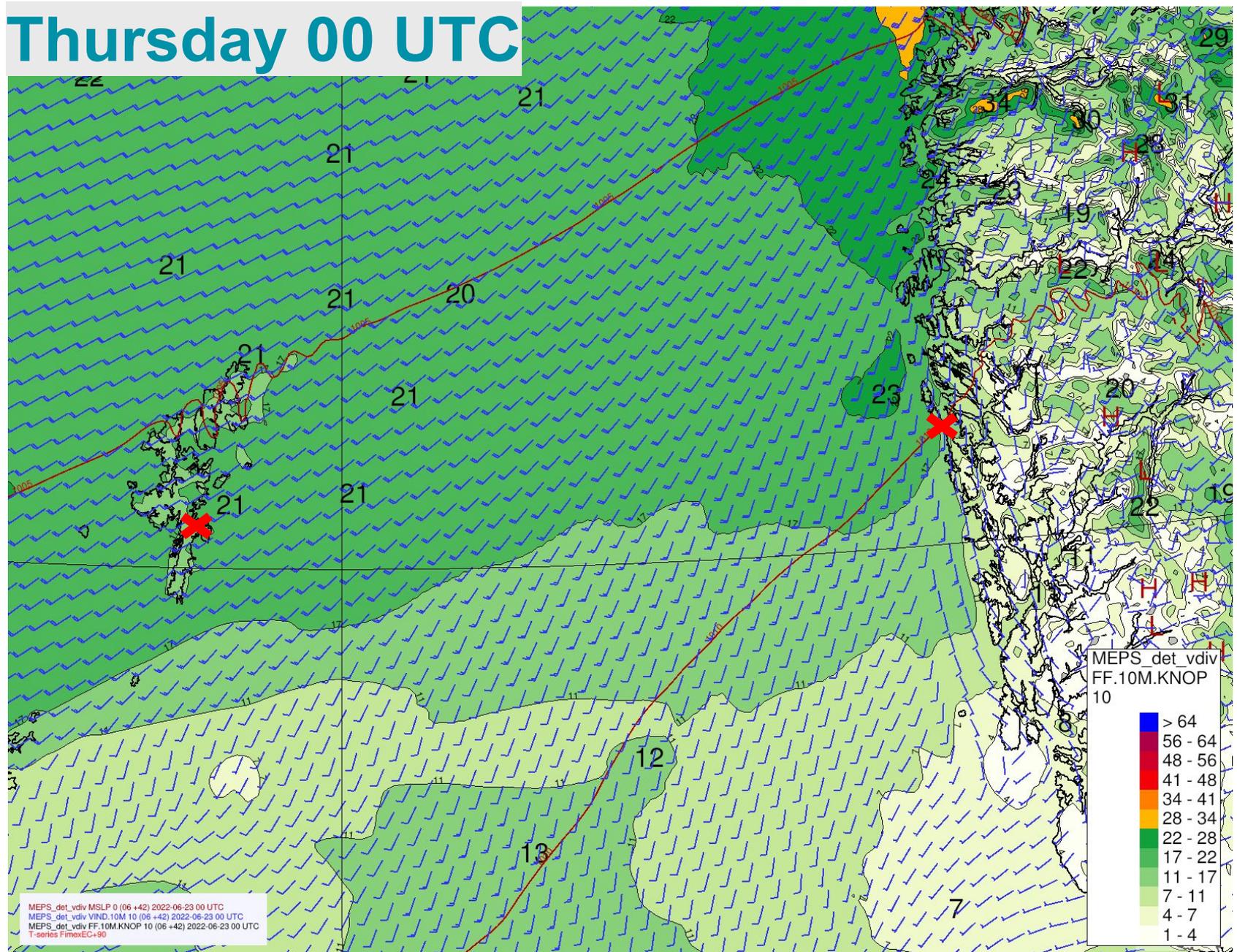
# Wednesday 15 UTC



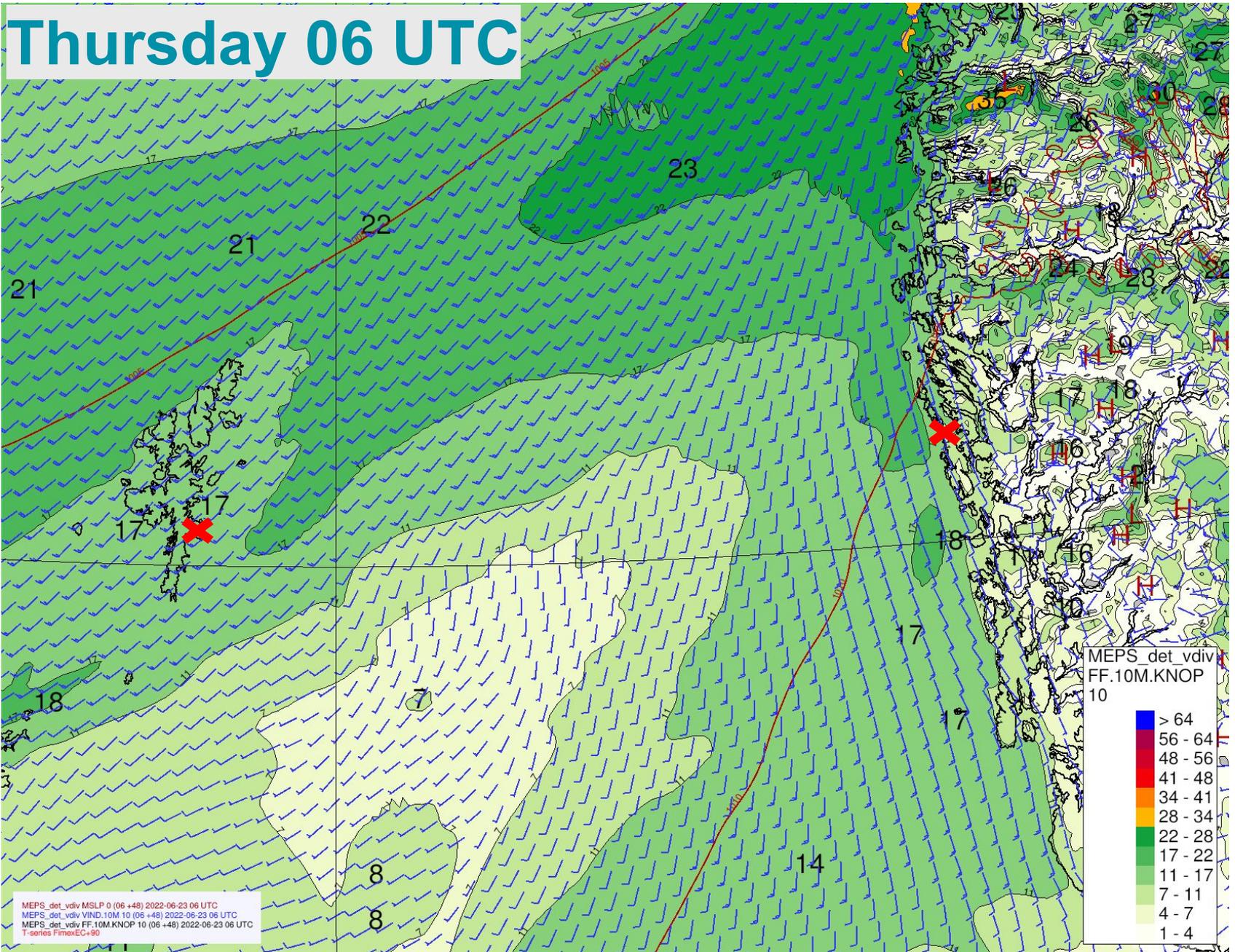
# Wednesday 18 UTC



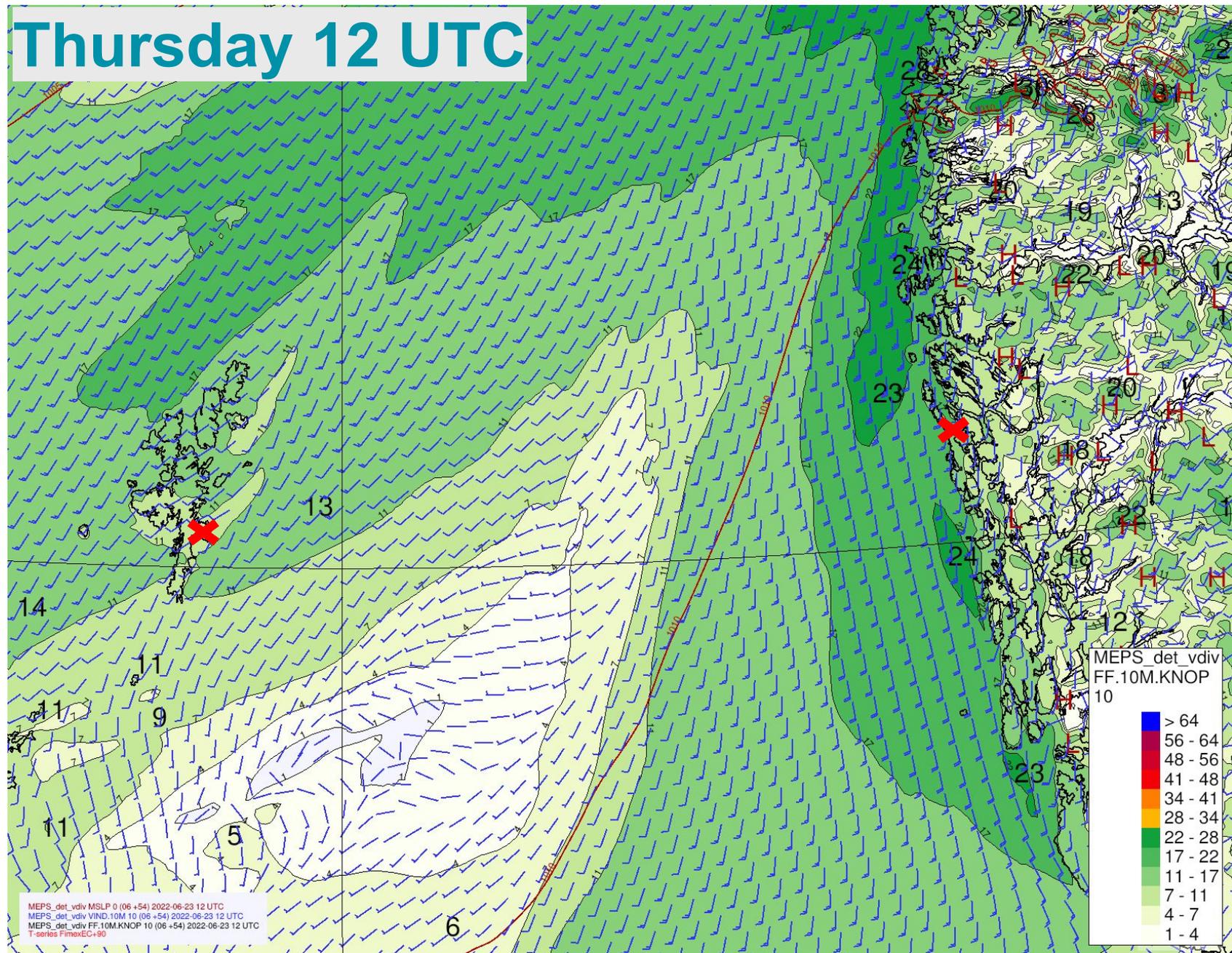
# Thursday 00 UTC



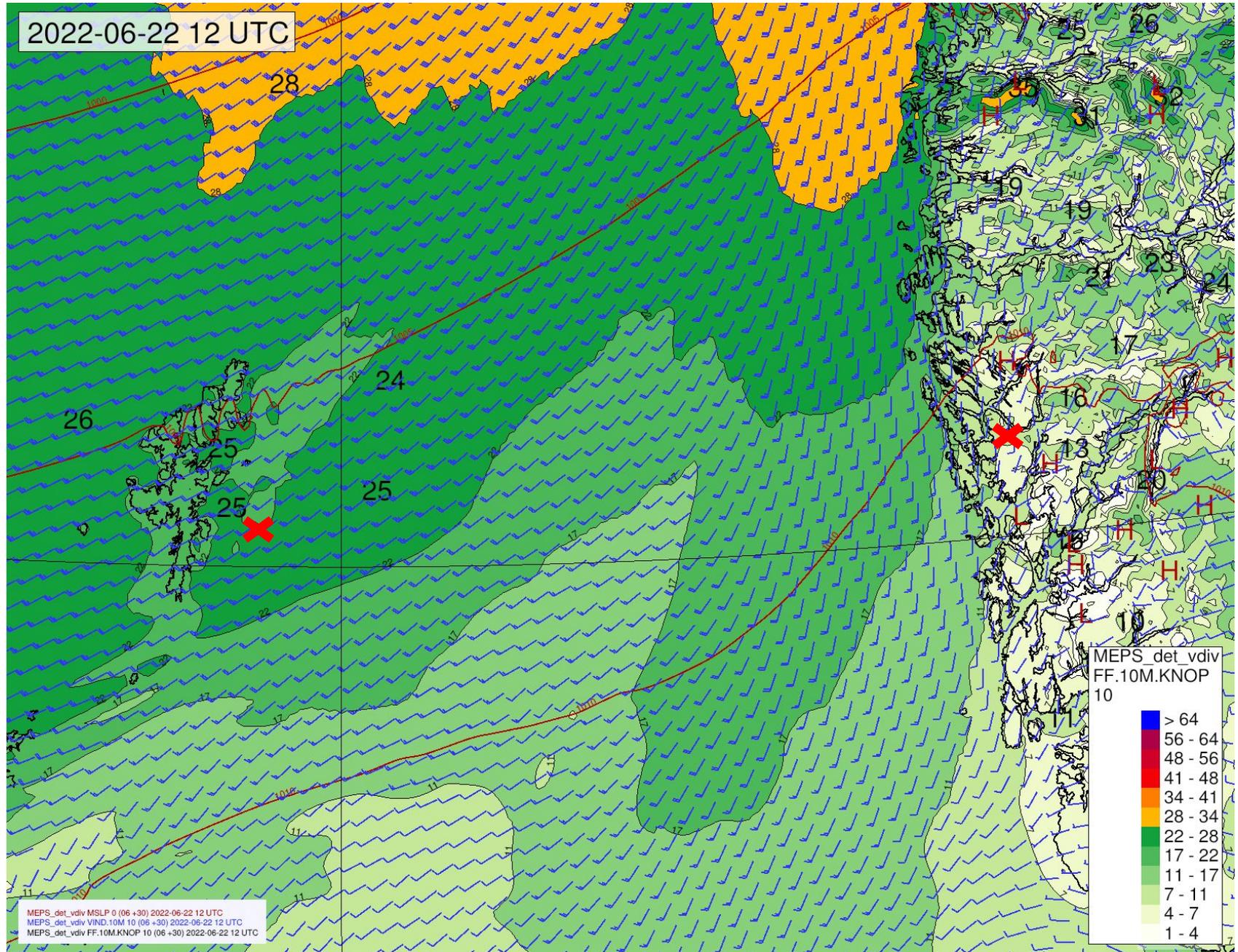
# Thursday 06 UTC



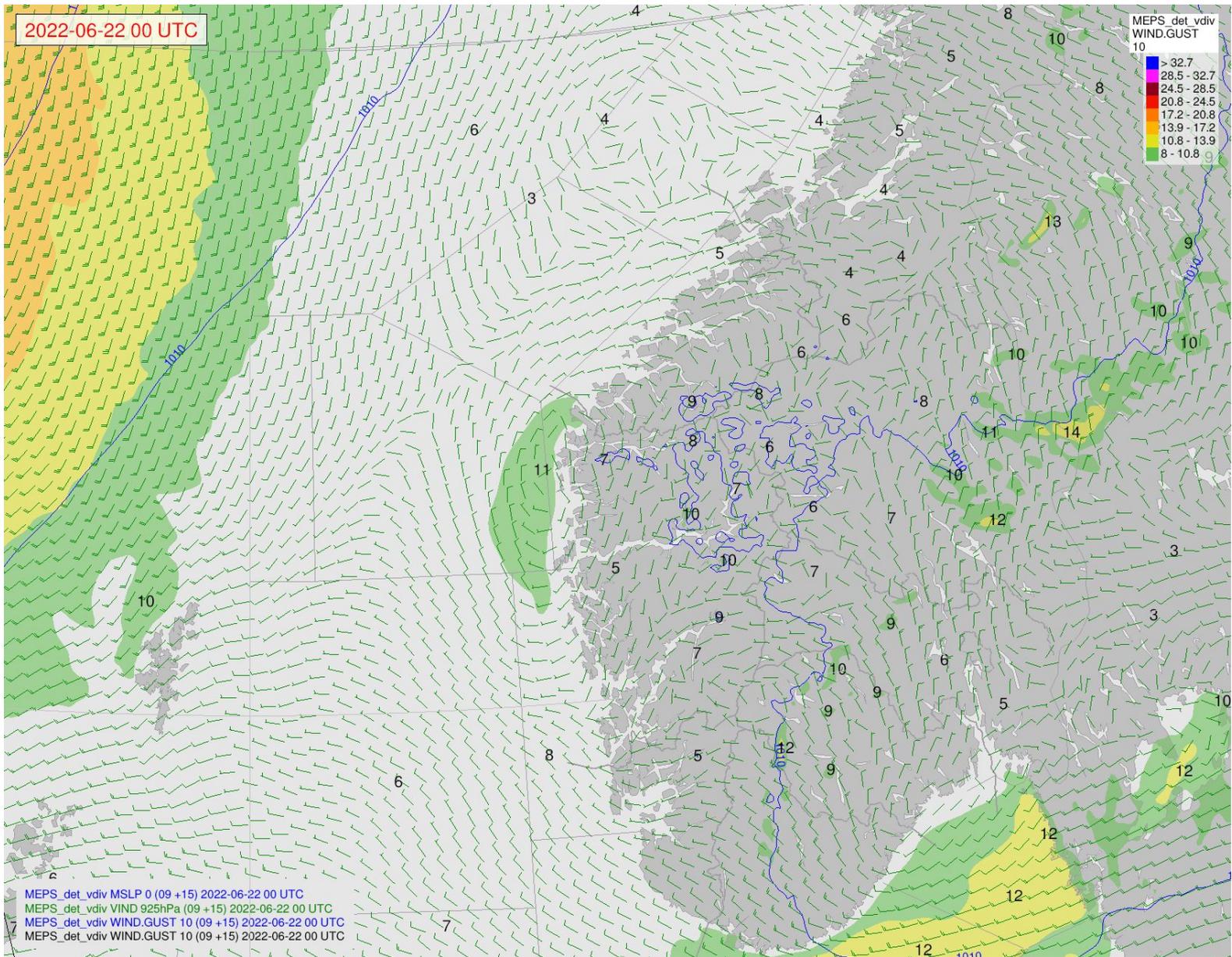
# Thursday 12 UTC



2022-06-22 12 UTC

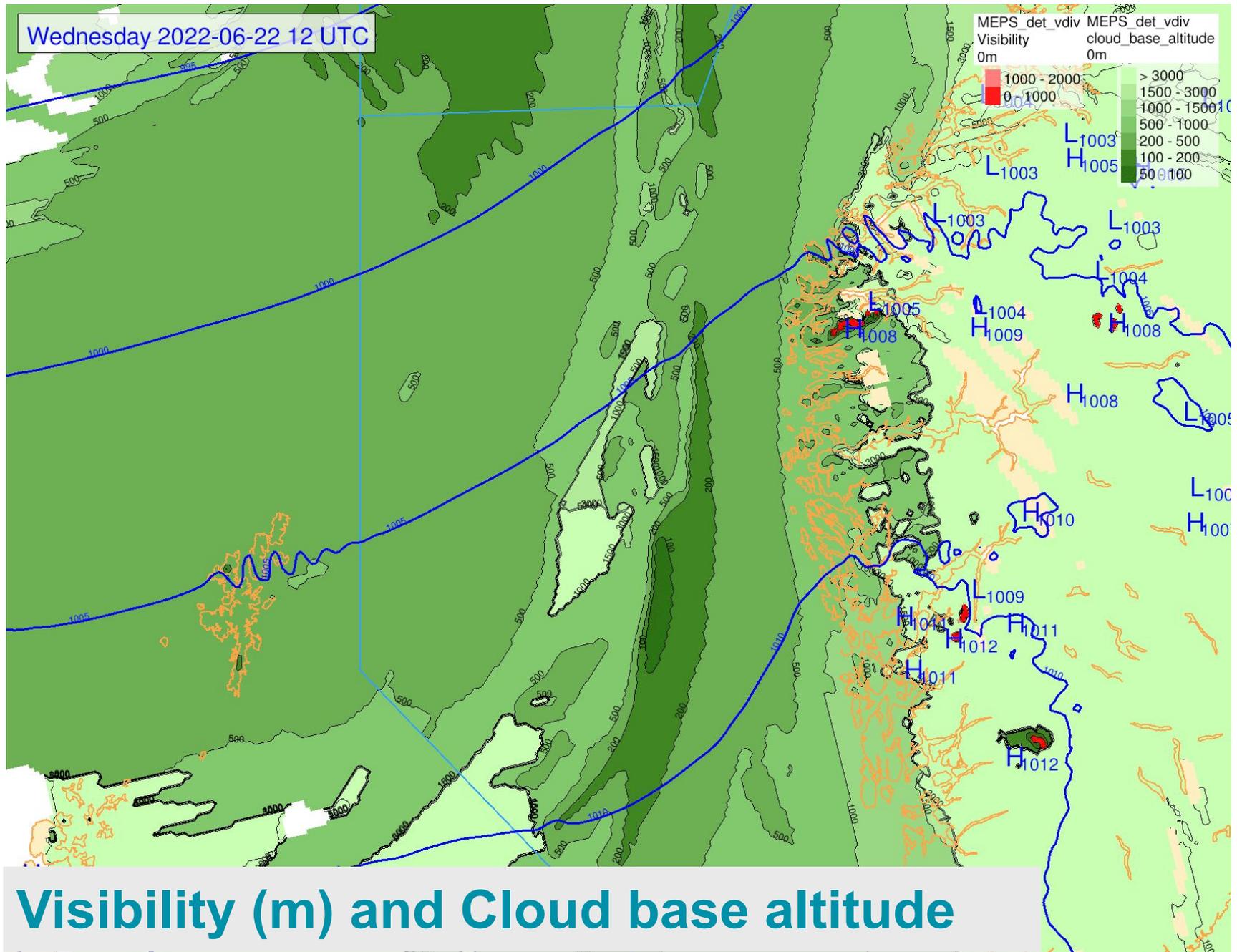






## Wind gust (m/s)

Wednesday 2022-06-22 12 UTC



# Visibility (m) and Cloud base altitude



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# Water Levels and Sea Surface Current

## Water level

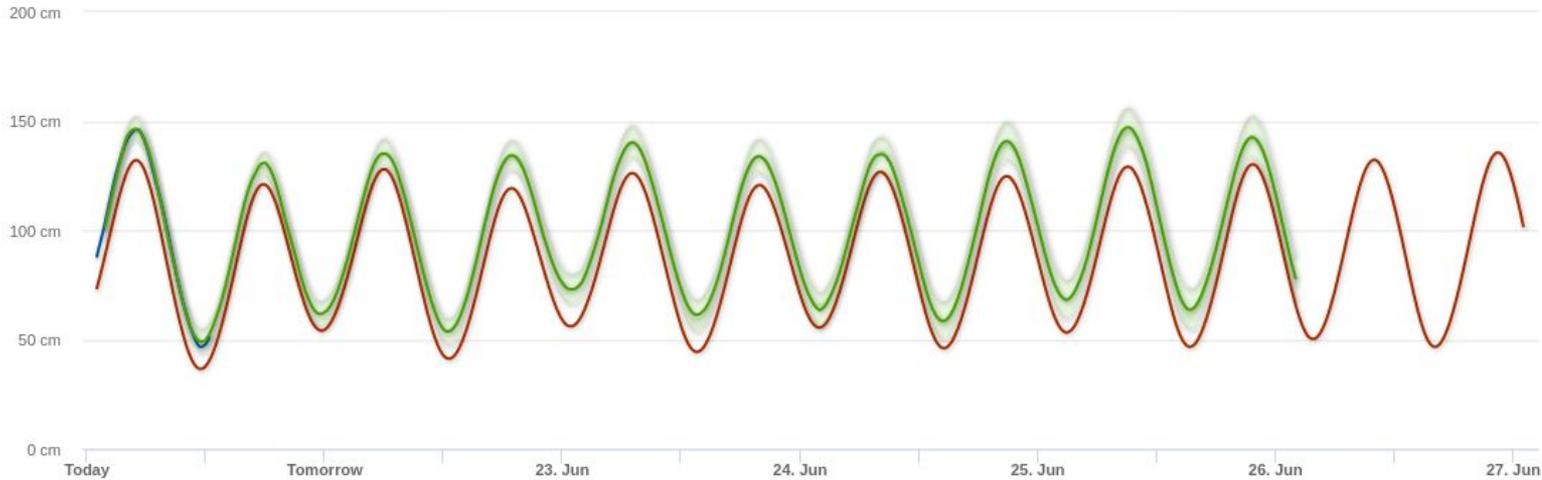
Time is given as local time in Norway and includes adjustment for daylight saving time. You can zoom in the graph. Tide tables can be found further down, but we recommend water level forecast for planning within the next five days.

[Graph](#) [Table](#)

From  
21 Jun, 2022

To  
26 Jun, 2022

Select reference level  
Chart Datum



— Water level ⓘ — Water level forecast ⓘ — Predicted tides ⓘ

[Download](#)

### Low and high tide ⓘ

Time is current time in Norway. It is adjusted according to daylight saving time.

From  
21 Jun, 2022

To  
26 Jun, 2022

Select reference level  
Chart Datum



Date	Low tide	High tide	Low tide	High tide	Low tide
Tuesday, June 21		at 04:58 132 cm	at 11:29 37 cm	at 17:49 121 cm	at 23:41 54 cm
Wednesday, June 22		at 05:59 128 cm	at 12:33 41 cm	at 18:51 119 cm	
Thursday, June 23	at 00:50 56 cm	at 07:03 126 cm	at 13:35 44 cm	at 19:53 121 cm	
Friday, June 24	at 01:56 56 cm	at 08:06 127 cm	at 14:31 46 cm	at 20:51 125 cm	
Saturday, June 25	at 02:54 53 cm	at 09:05 129 cm	at 15:21 47 cm	at 21:41 130 cm	
Sunday, June 26	at 03:46 50 cm	at 09:57 132 cm	at 16:05 47 cm	at 22:26 136 cm	

[Adobe PDF](#)  
[Text file](#)



60° 28.623 N 4° 50.650 E

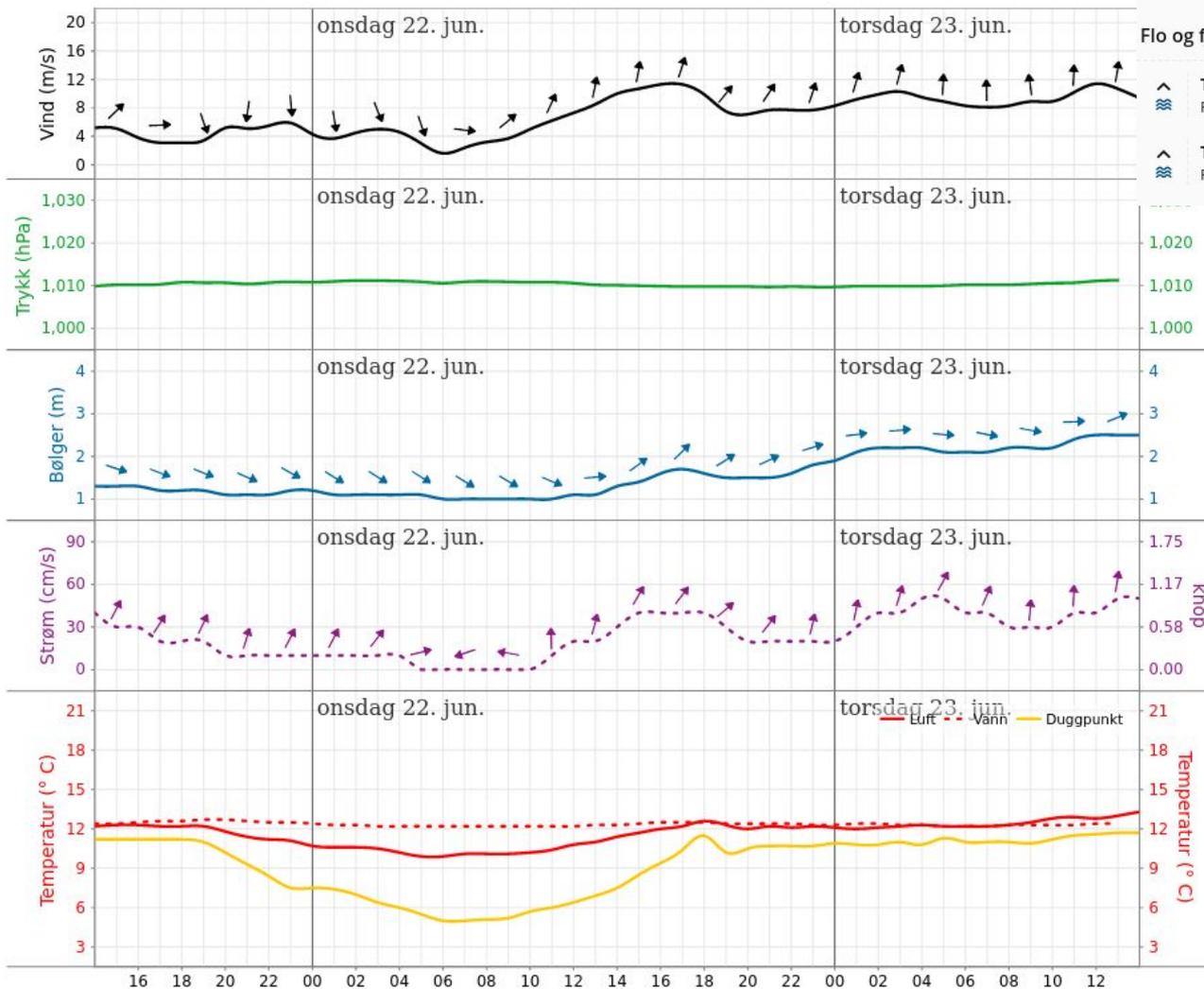
60.47705° N 4.84416° Ø



Signifikant bølgehøyde  
1,3 m

Maks bølgehøyde  
2,5 m

Bølgeperiode  
7,6 s



### Flo og fjære

^ Tir. kl. 04:53  
 Flo 122,8 cm

^ Tir. kl. 17:44  
 Flo 112,6 cm

∨ Tir. kl. 11:24  
 Fjære 34 cm

∨ Tir. kl. 23:36  
 Fjære 50,3 cm

Location close to Rongøyna

Datakilde

Marinogram

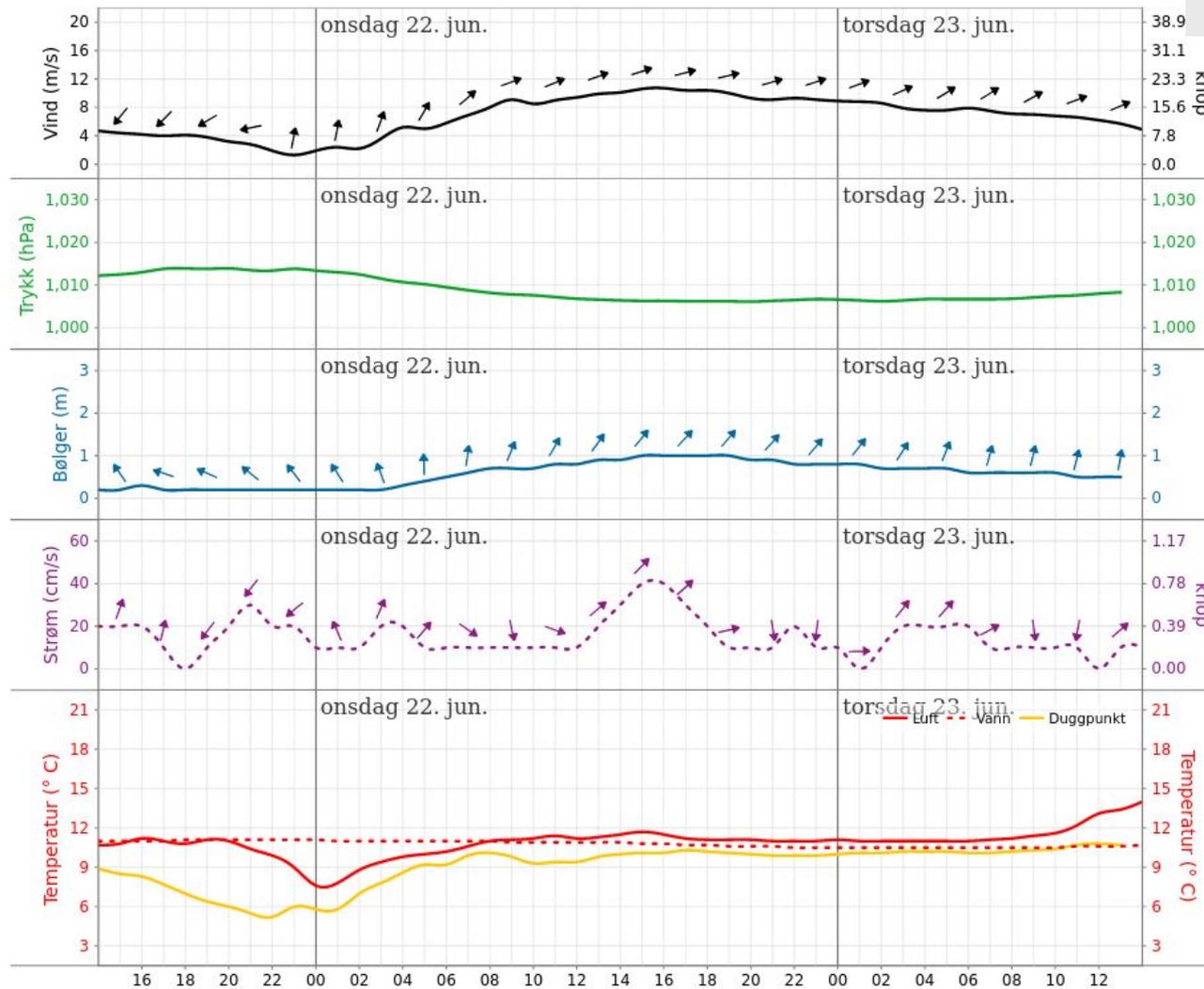
Datakilde: Meteorologisk institutt

Meteorologisk institutt



60° 09.022 N 1° 08.480 W

Location close  
to Lerwick



Datakilde

Marinogram

Datakilde: Meteorologisk institutt

### Kystvarsel i

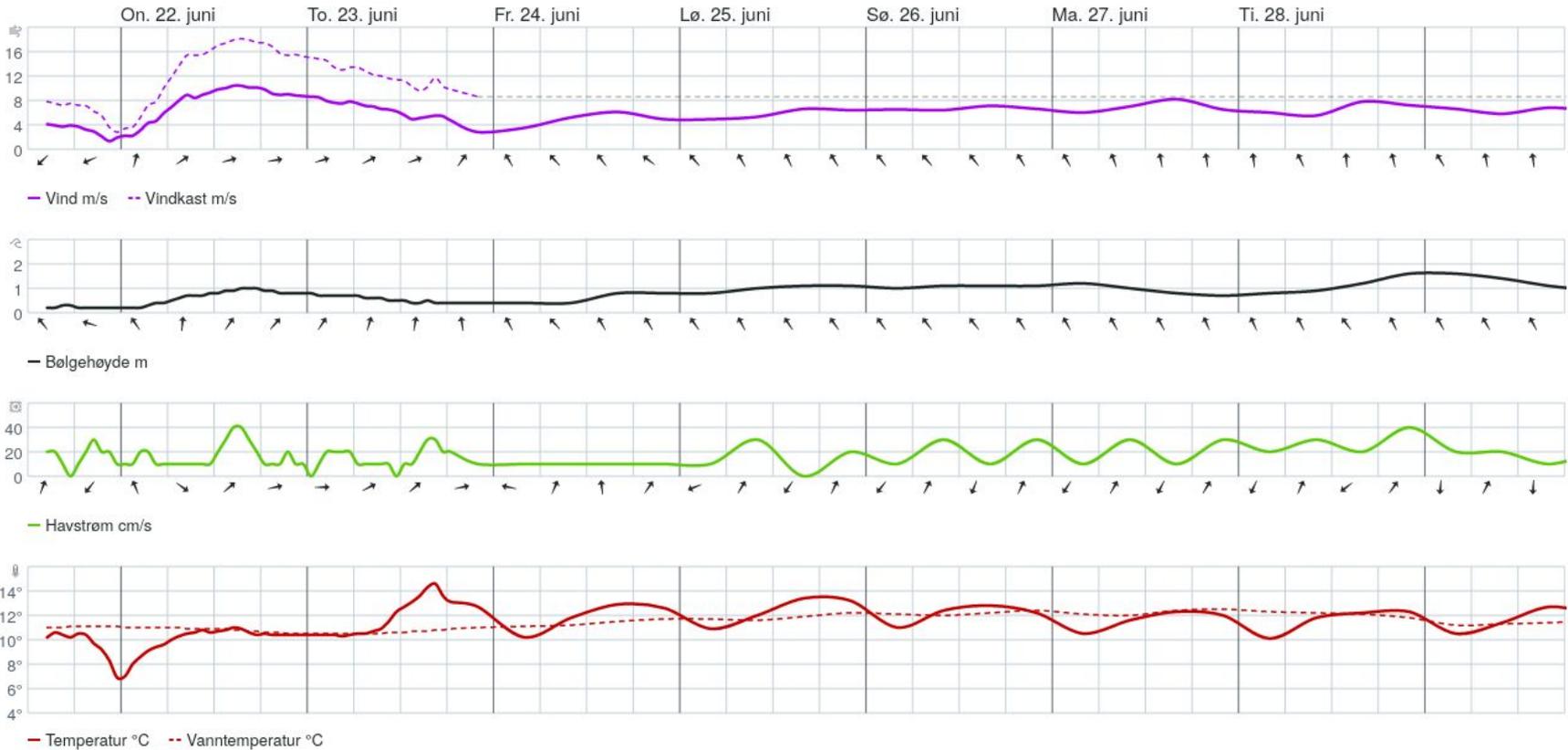
For nærmeste havpunkt, 5,4 km fra Lerwick

Oversikt

Graf

Tabell

-> next slide



12		11°	0,8 ↗	10 (17) →	20 ↗	11°
13		11°	0,9 ↗	10 (17) →	30 ↗	11°
14		11°	0,9 ↗	10 (18) →	40 ↗	11°
15		11°	1 ↗	10 (18) →	40 ↗	11°
16		11°	1 ↗	10 (18) →	30 ↗	11°
17		10°	1 ↗	10 (18) →	20 ↗	11°
18		11°	0,9 ↗	10 (17) →	10 →	
19		10°	0,9 ↗	9 (17) →	10 ↘	
20		10°	0,8 ↗	9 (16) →	10 ↓	
21		10°	0,8 ↗	9 (15) →	20 ↓	
22		10°	0,8 ↗	9 (16) →	10 ↓	
23		10°	0,8 ↗	9 (15) →	10 ↓	

## Conclusion:

According to the ocean models, the current between Lerwick and Isle of Bressay turns about 2 hours before HT/LT. The current starts running northward 2 hours before LT and starts running southwards 2 hours before HT.

Torsdag 23. juni

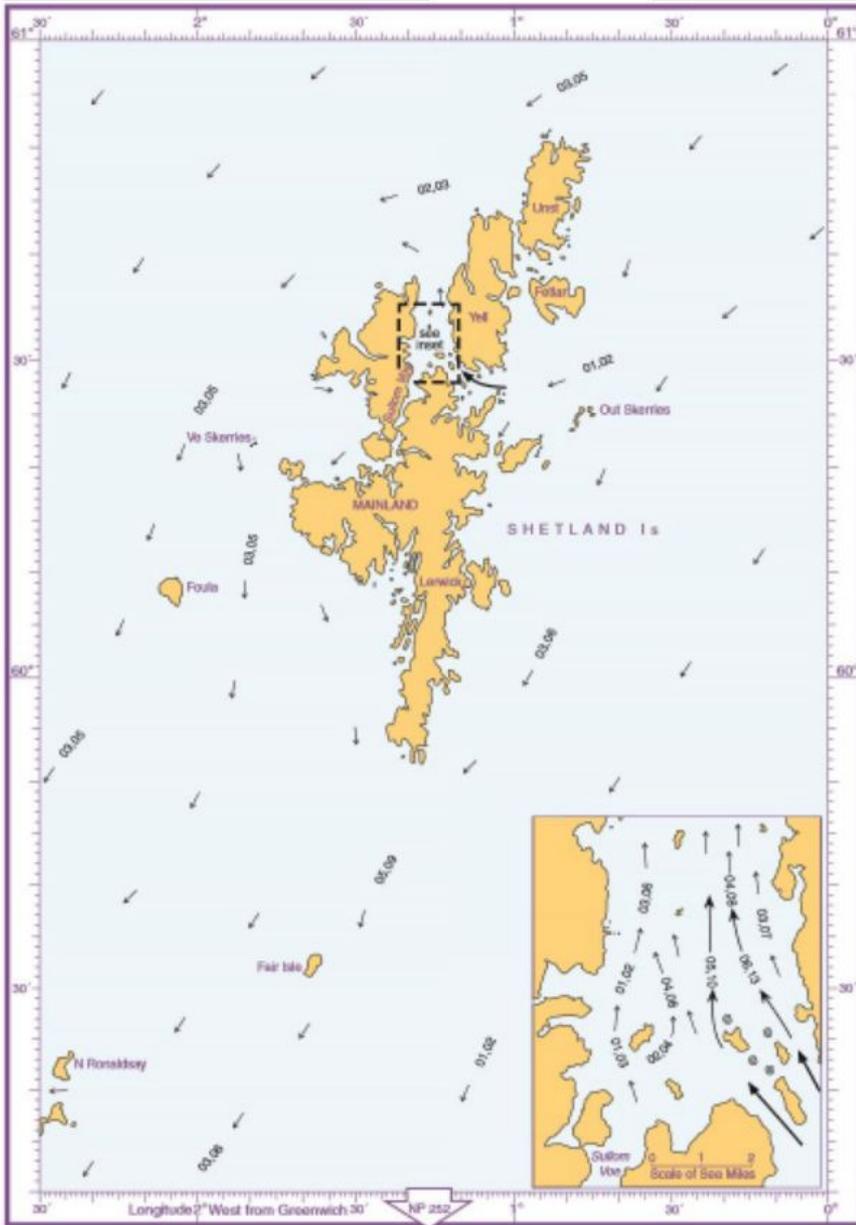
Tid	Vær	Temp.	Bølgehyde m.	Vind(kast) m/s	Havstrøm cm/s	Vanntemp.	Beregnet tidevann cm	Vannstandsvarsel cm
00		10°	0,8 ↗	9 (15) →	0 →	11°		
01		10°	0,7 ↗	9 (15) →	10 ↗	11°		
02		10°	0,7 ↗	8 (15) →	20 ↗	11°		
03		10°	0,7 ↗	8 (13) →	20 ↗	11°		
04		10°	0,7 ↗	8 (13) →	20 ↗	11°		
05		10°	0,7 ↗	8 (13) ↗	20 ↗	11°		
06		11°	0,7 ↗	8 (13) ↗	10 ↗	11°		
07		11°	0,6 ↗	7 (13) →	10 ↘	11°		
08		11°	0,6 ↗	7 (12) →	10 ↓	11°		
09		11°	0,6 ↗	7 (12) →	10 ↓	11°		
10		12°	0,5 ↗	7 (12) →	10 ↓	11°		
11		12°	0,5 ↗	6 (11) →	0 ↓	11°		
12		13°	0,5 ↗	6 (11) →	10 ↗	11°		





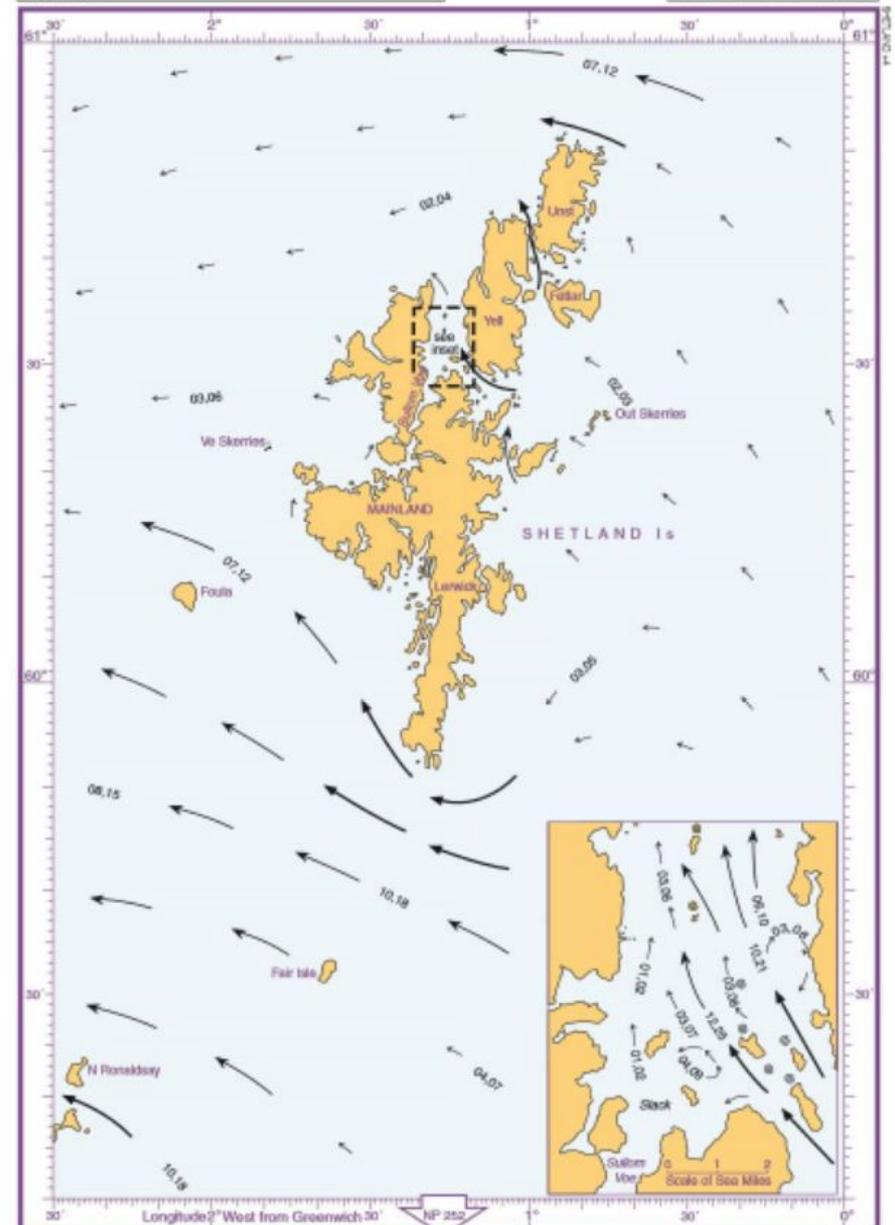
of the areas covered by this Atlas, many eddies and overfalls may occur. Where possible some indication of these has been included. In many areas there is either insufficient information or the eddies are unstable.

**2 HIGH WATER DOVER**  
 2h 15m after HW LERWICK  
 0h 20m before HW ABERDEEN



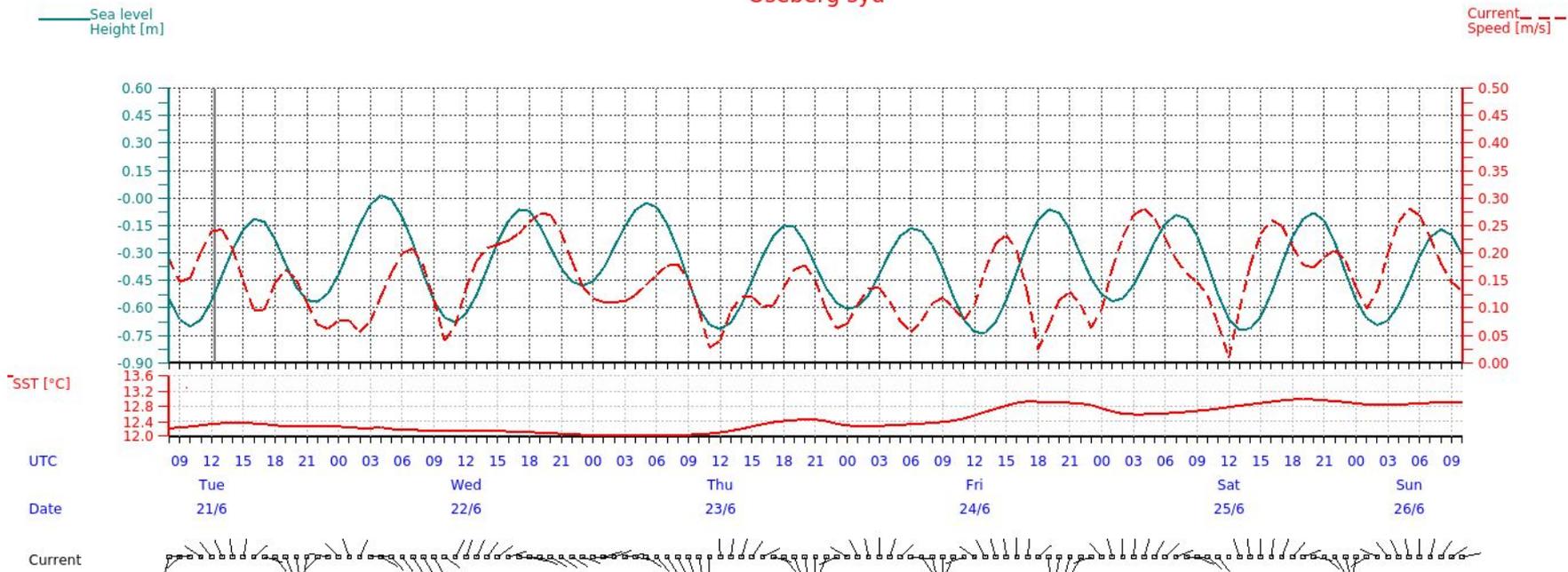
of the areas covered by this Atlas, many eddies and overfalls may occur. Where possible some indication of these has been included. In many areas there is either insufficient information or the eddies are unstable.

**4 HIGH WATER DOVER**  
 4h 15m after HW LERWICK  
 1h 40m after HW ABERDEEN

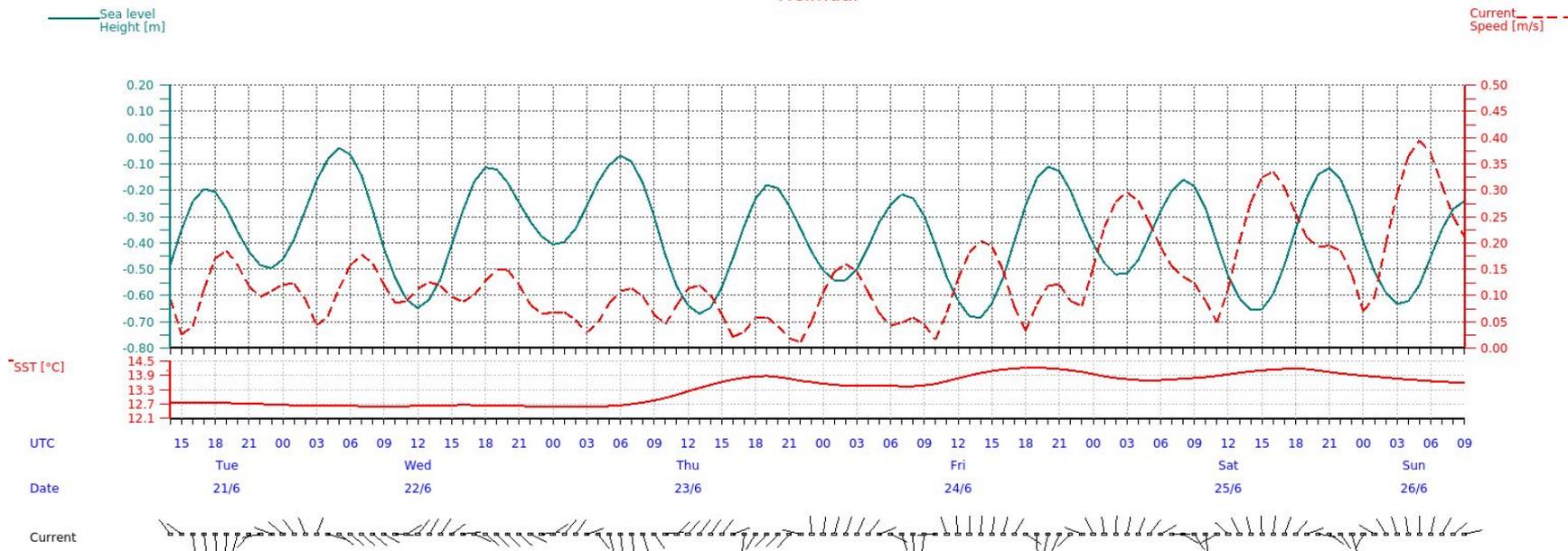




# Oseberg syd



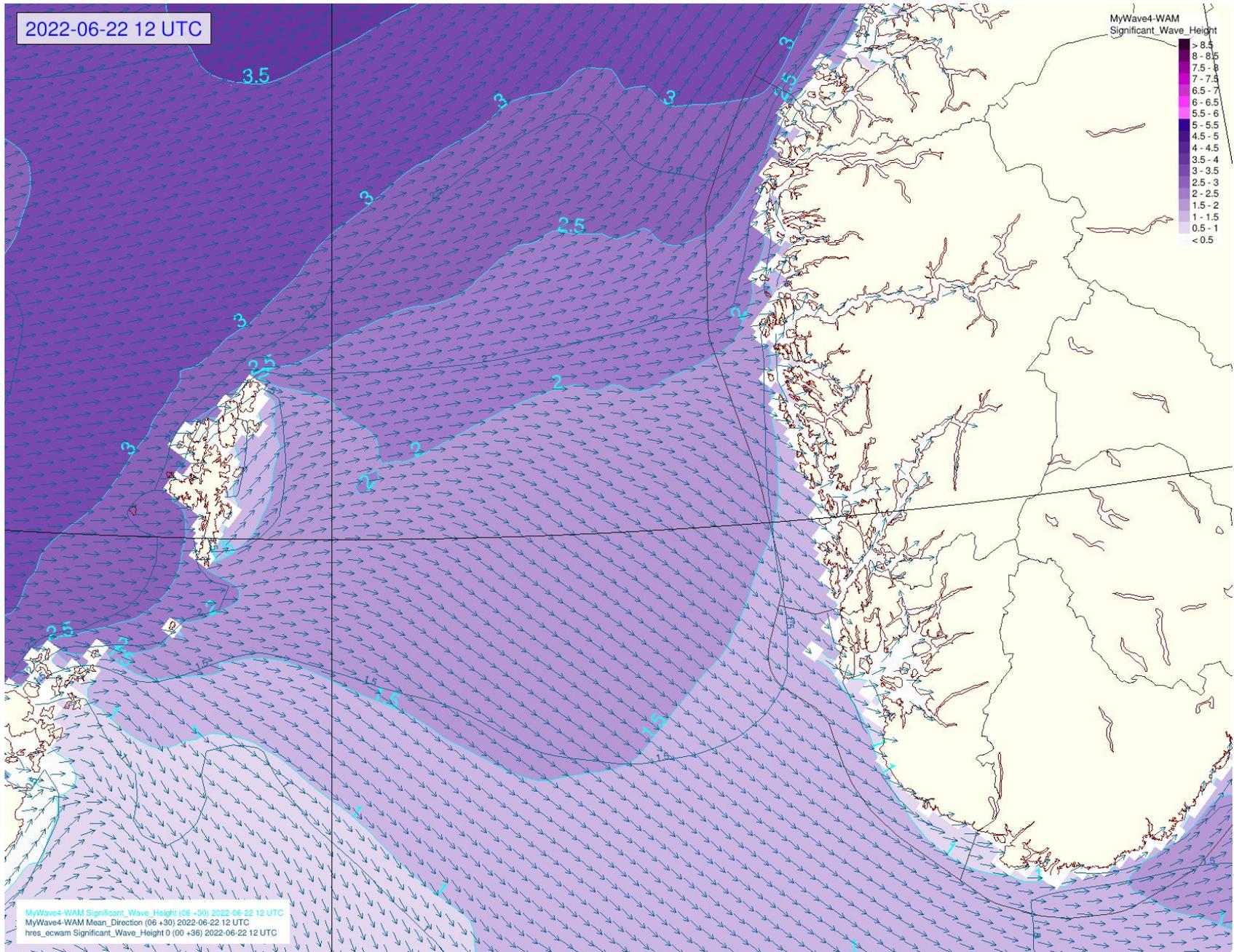
# Heimdal





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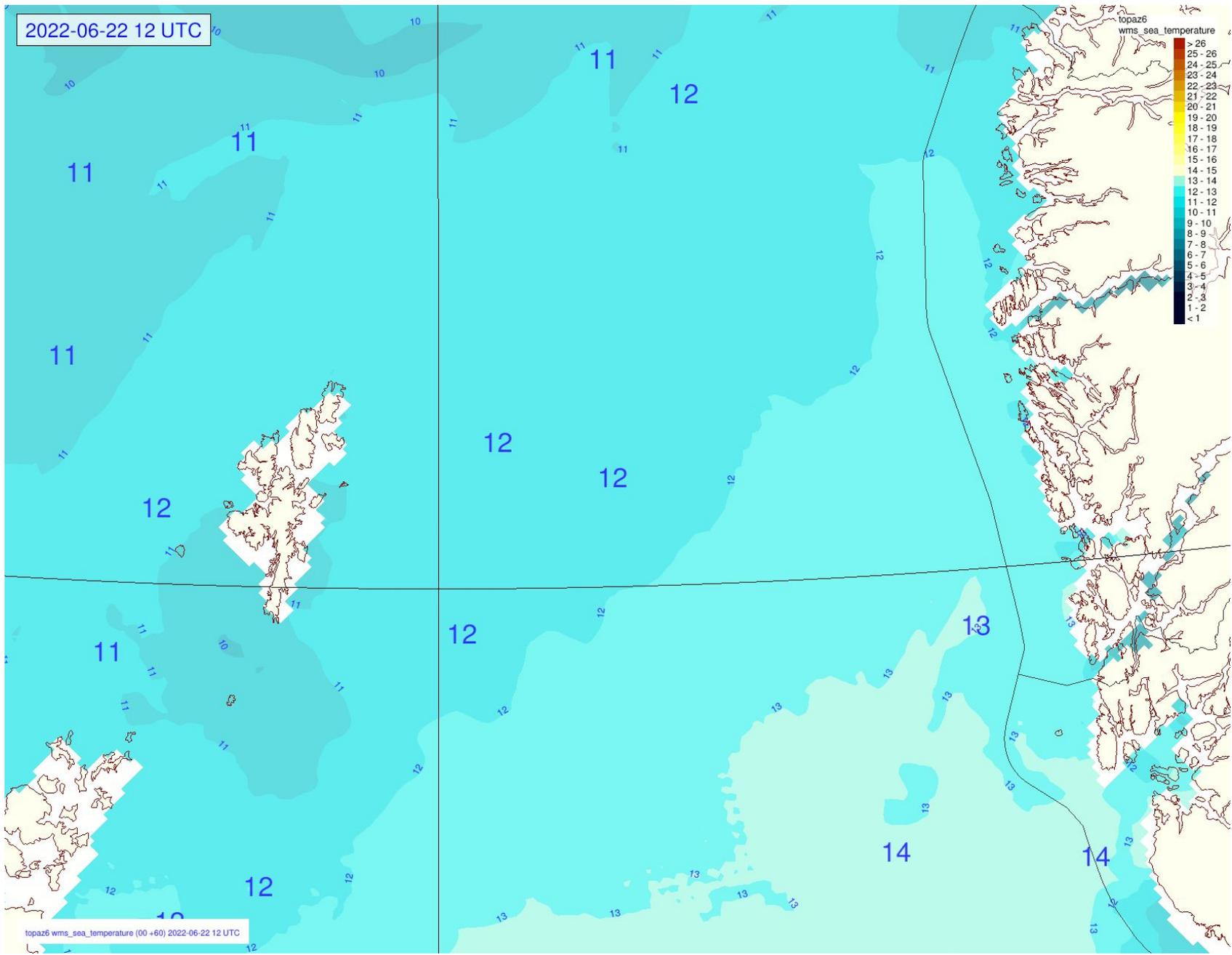
# Waves





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# Sea Surface Temperatures

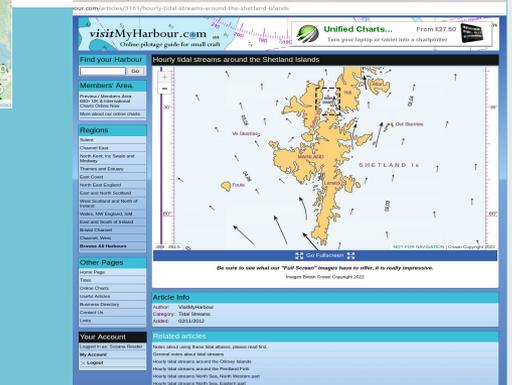
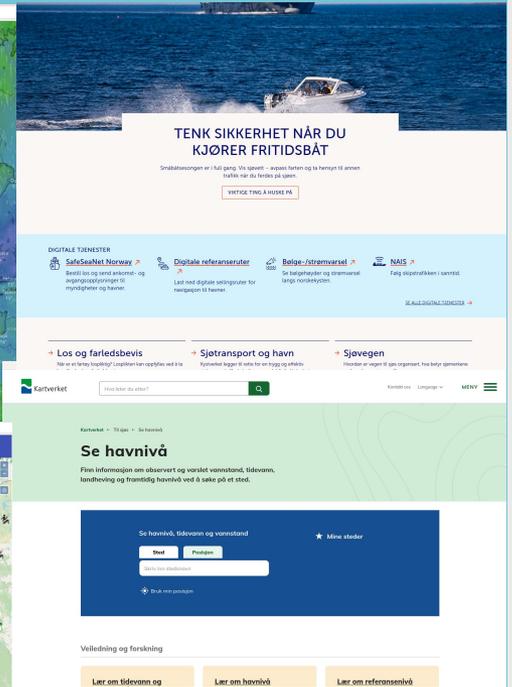
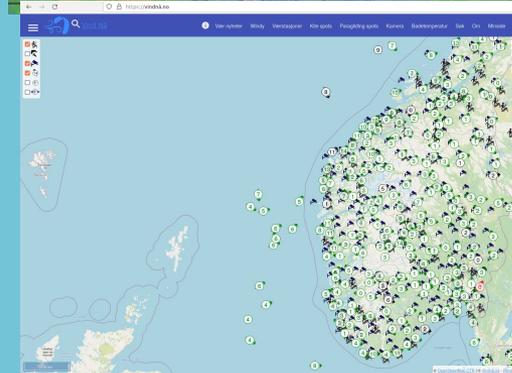
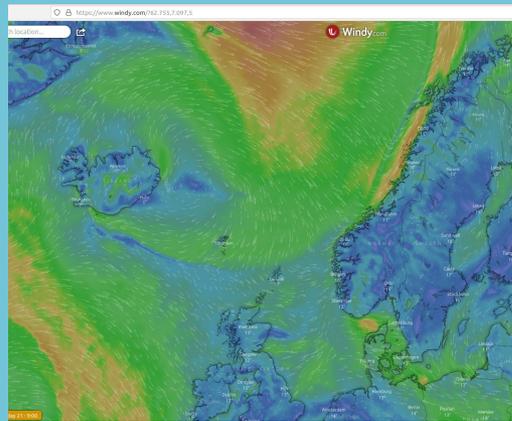




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# Useful links:

- ★ [yr.no](http://yr.no)
- ★ [sehavniva.no](http://sehavniva.no) or <https://kartverket.no/til-sjos/se-havniva>
- ★ <https://vindna.no/>
- ★ <https://www.windy.com/>
- ★ <https://www.kystverket.no/> or <https://www.barentswatch.no/>
- ★ <https://www.visitmyharbour.com/>
- ★ <https://www.visitmyharbour.com/articles/3161/hourly-tidal-streams-around-the-shetland-islands>





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**Thank you for your attention!**





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