Met Office | Border Force | Immigration Enforcement

Op DEVERAN Weather Assessment

Valid from 12UTC Monday 22 November to 06UTC Thursday, 02 December 2021

Forward look 30 days issued each Wednesday

Issued by Met Office NSAG: 12UTC Monday 22 November 2021

Next routine issue: 12UTC Tuesday 23 November 2021

Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Monday, 22 November to 06UTC Tuesday, 23 November	3	Favourable	Marginal	Unfavourable	Unlikely
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November	5	Favourable	Marginal	Unfavourable	Likely
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November	3	Favourable	Favourable	Unfavourable	Highly Likely
22UTC Thursday, 25 November to 06UTC Friday, 26 November	-1	Marginal	Unfavourable	Unfavourable	Highly Unlikely
22UTC Friday, 26 November to 00UTC Saturday, 27 November	-1	Unfavourable	Unfavourable	Unfavourable	Highly Unlikely
22UTC Saturday, 27 November to 06UTC Sunday, 28 November					Highly Unlikely
22UTC Sunday, 28 November to 06UTC Monday, 29 November					Highly Unlikely
22UTC Monday, 29 November to 06UTC Tuesday, 30 November					Realistic Possibility
22UTC Tuesday, 30 November to 06UTC Wednesday, 01 December					Unlikely
22UTC Wednesday, 01 December to 06UTC Thursday, 02 December					Unlikely

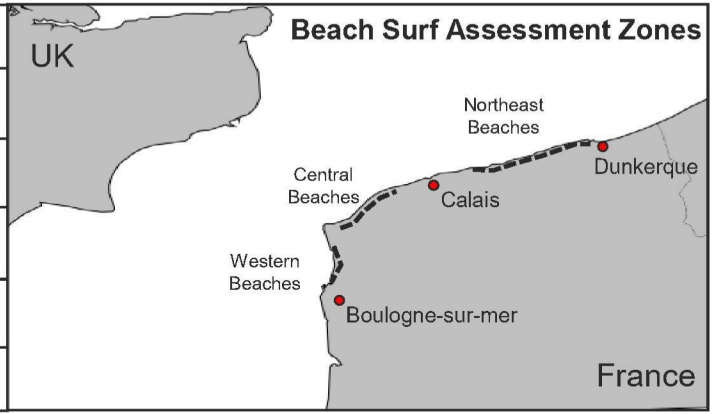
This forecast is not subject to amendment

© Crown Copyright 2021 Met Office

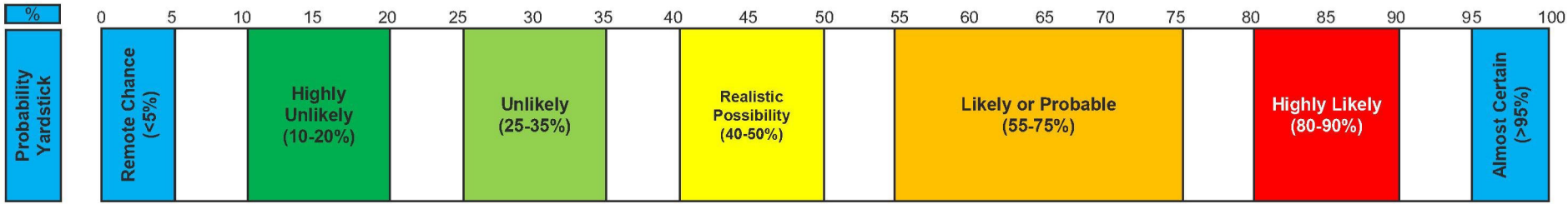
Met Office

Chart decodes

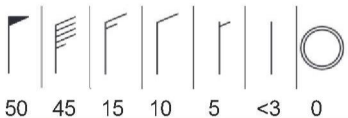
Colour	Significant Wave Height	Impact
	>1m	Greatly limited crossing activity, mostly associated with larger vessels more able to operate in adverse sea conditions.
	>0.5m to 1m	Limited crossing activity in marginal conditions.
	>0.4 to 0.5m	Increased crossing activity. Upper limit of favourable conditions.
	≥0.3 to 0.4m	Increased crossing activity and favourable conditions.
	<0.3m	Greatly increased crossing activity. Optimum conditions.



Probability Yardstick



Other



Wind Barbs show the direction the wind is coming from and add up in 5 knot (KT) increments (rounded to the closest 5KT)

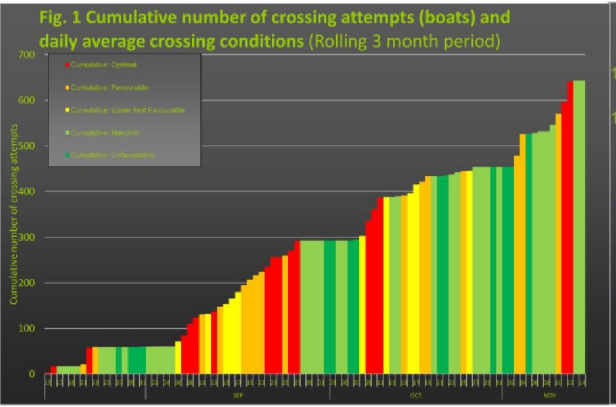
Significant wave height contours in 0.1M intervals. Ocean current contours in 0.1KT intervals. Total ocean current accounts for tidal flow and meteorological effects on ocean currents. All times UTC. All temperatures oC. All heights M.

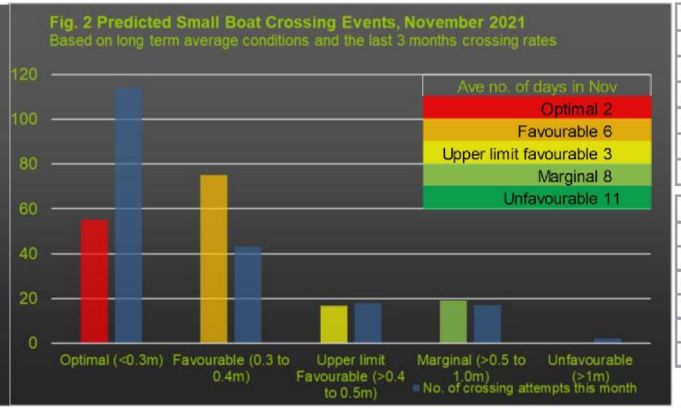
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

Met Office

Commander's Dashboard (Figures Updated 19/11/21)





Monthly Forecast for November 2021

	2020 Actual	2021 Forecast	Recorded
No. of boats	97	133	194
Average migrants per boat	18	37	34
No. of migrants	1791	4902	6554
French interception rate	59%	50%	42%
No. of migrants (UK arrivals)	757	2451	3940

Monthly Forecast for December 2021

	2020 Actual	2021 Forecast
No. of boats	31	140
Average migrants per boat	15	34
No. of migrants	468	4733
French interception rate	58%	42%
No. of migrants (UK arrivals)	211	2745

'Attempt' includes aborted attempts from beaches but not inland dispersals.
Data correct up to 15/11/2021. ** Includes inland dispersals*

Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Monday, 22 November to 06UTC Tuesday, 23 November	3	Favourable	Marginal	Unfavourable	Unlikely
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November	5	Favourable	Marginal	Unfavourable	Likely
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November	3	Favourable	Favourable	Unfavourable	Highly Likely
22UTC Thursday, 25 November to 06UTC Friday, 26 November	-1	Marginal	Unfavourable	Unfavourable	Highly Unlikely
22UTC Friday, 26 November to 00UTC Saturday, 27 November	-1	Unfavourable	Unfavourable	Unfavourable	Highly Unlikely
22UTC Saturday, 27 November to 06UTC Sunday, 28 November					Highly Unlikely
22UTC Sunday, 28 November to 06UTC Monday, 29 November					Highly Unlikely
22UTC Monday, 29 November to 06UTC Tuesday, 30 November					Realistic Possibility
22UTC Tuesday, 30 November to 06UTC Wednesday, 01 December					Unlikely
22UTC Wednesday, 01 December to 06UTC Thursday, 02 December					Unlikely

Discussion: Fig1 shows a continued preference for favourable conditions or better although noticeable in Fig2 is a visible increase in crossing attempts in marginal conditions. This increased risk appetite has become increasingly evident as windows of favourable conditions have become more limited as the autumn has progressed.

Headlines Days 1-10 (updated 22 Nov):

- A drop in temperatures is likely to lead to sub zero feels like temperatures from Thursday.
- Unfavourable crossing conditions are likely to quickly give way to marginal conditions tonight. These marginal conditions are likely to then be maintained until early Wednesday morning.
- From 0300UTC on Wednesday morning favourable crossing conditions are likely to become established as significant wave heights decrease under a light easterly wind.
- Favourable or optimal crossing conditions are likely until 0900UTC Thursday morning. At this point a strengthening northerly wind is likely to drive rapid increases in wave heights.
- The strong wind is likely to be maintained from Thursday through the outlook period. This is likely to lead to unfavourable (perhaps marginal) crossing conditions through much of the following week as the wind and waves run into the French coast.

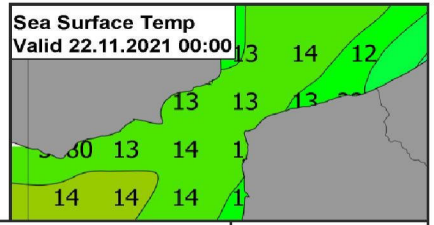
Outlook for 30 days: The preferred scenario is for a west or northwesterly flow to prevail for the end of the month, this is likely to lead to largely marginal crossing conditions with onshore winds along the French coast interspersed with short windows of more favorable conditions as seen this week. Going into December there is a weak signal for high pressure close to the south of the UK, this brings a realistic possibility of more extended periods of favorable conditions along with cold and foggy nights.

Figures, discussion and 30 day outlook normally updated on Wednesdays

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

Met Office Impacts (UK asset availability & capability)



Note: In the section above the grey line; green denotes the weather is unlikely to impact asset availability or capability, red denotes asset is likely impacted by the weather.

Date	22 Nov		23 November					24 November				25 Nov		
Time (UTC)	**18**	**21**	**00**	**03**	**06**	**18**	**21**	**00**	**03**	**06**	**18**	**00**	**06**
Cutter													
CPV (Dover)													
RHIB (Dover)													
UAV (AR5 - Lydd)													
UAV (AR3 - Dover)								Cloud / fog					
MCA fixed wing (Doncaster)													
MCA Helicopter (Lydd)													
Solar times (UTC)	Sunset 15:58				Sunrise 07:25	Sunset 15:57				Sunrise 07:26	Sunset 15:56		
Crossing attempt likelihood													
Lowest feels like air temp (C)	5	4	3	4	5	6	6	5	7	6	6	4	3
French coast precip' (% chance)	<5	<5	<5	10	10	10	10	10	10	10	10	10	10
Wind Direction	NE	E-NE	E-NE	NE	NE/N	N	NE	E	E	SE	SE	S	N
Wind Speed (KT)	15	15	12	8	5/15	15	10	5	5	5	3-5	8	10

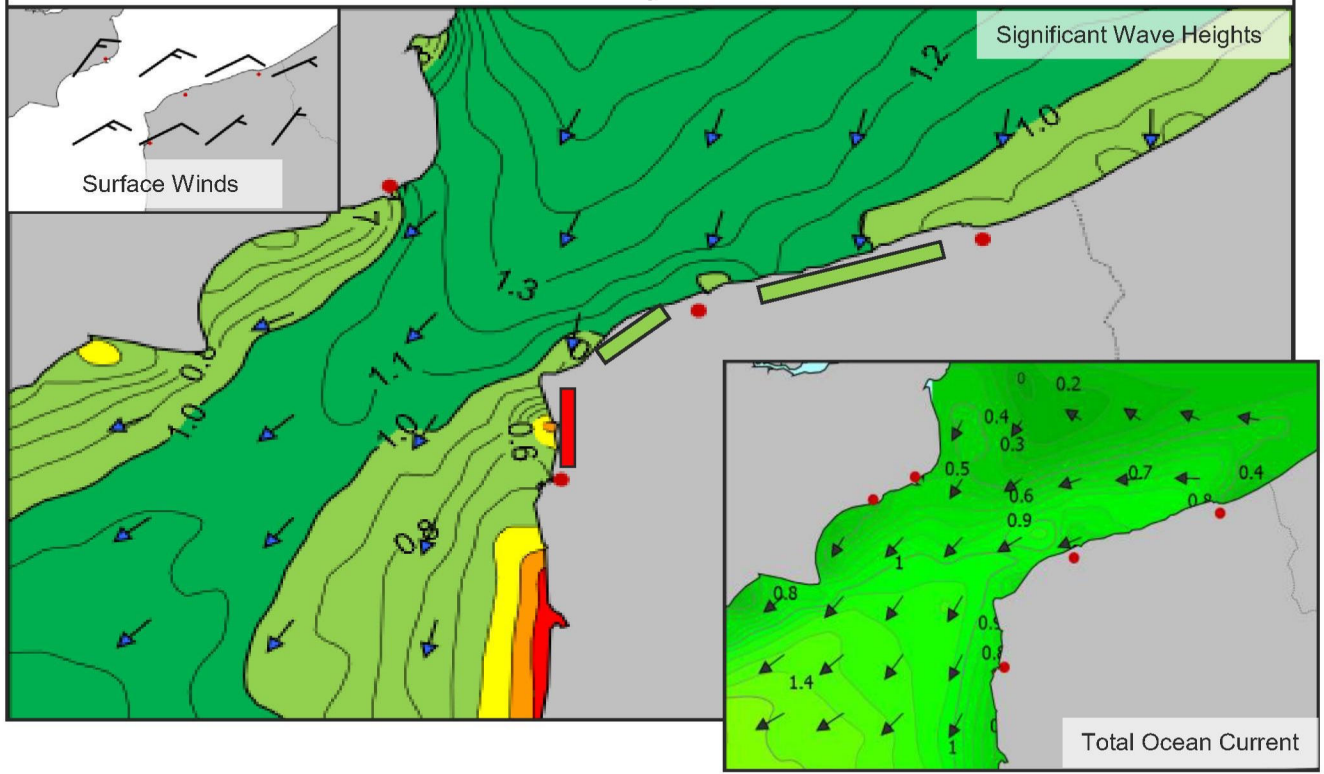
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing conditions: 18UTC 22 November to 06UTC 23 November

18UTC Monday 22 November



Crossing likelihood: Highly Unlikely

NSAG Comment

A fresh northeast wind through the day is likely to maintain unfavourable crossing conditions into the evening.
Although the west facing beaches are likely to be sheltered from the worst of the conditions favourable conditions are unlikely to reach far off shore.
A narrow band of cloud and occasional showers of rain is likely to persist aligned along the Channel. This is likely to bring temporary deteriorations to cloud bases and visibility but is unlikely to impact aviation operations.

Windy.com has a similar forecast throughout the night.

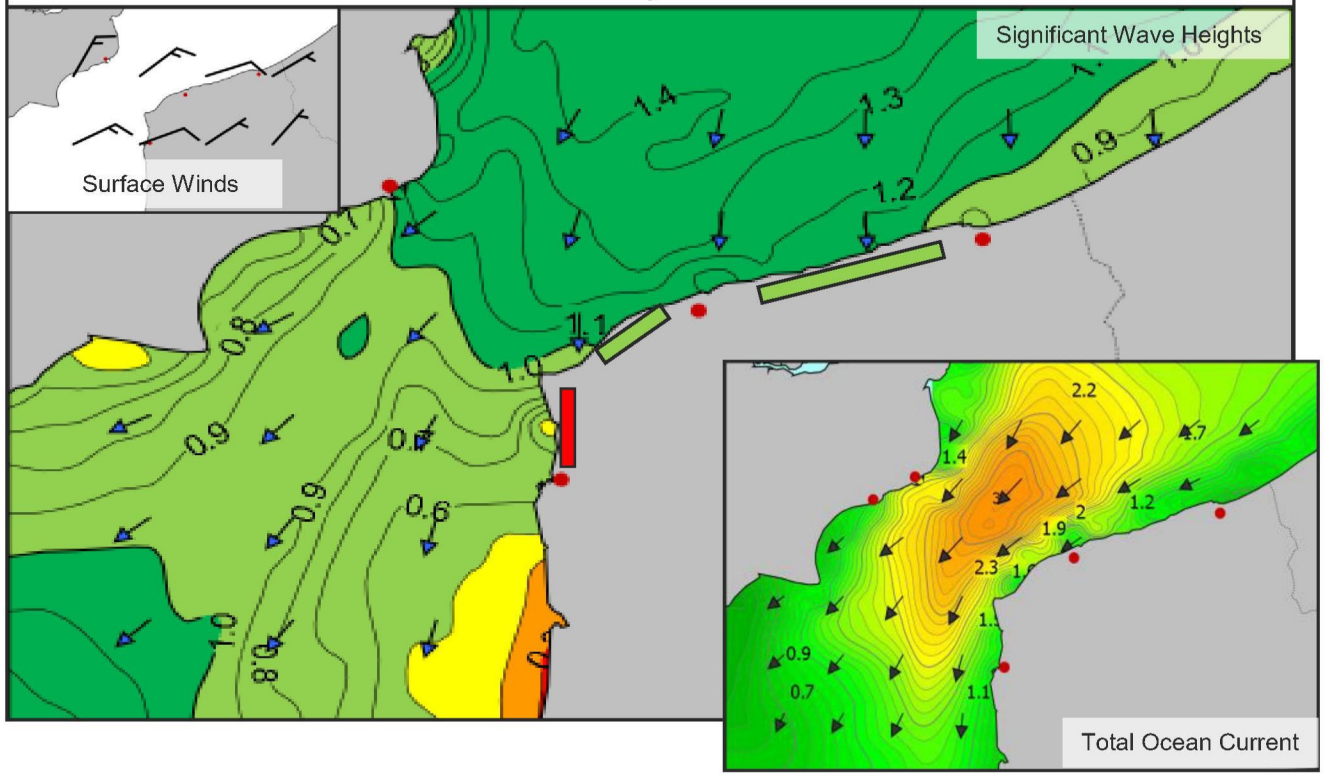
Calais Tides (UTC):

High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

21UTC Monday 22 November



Crossing likelihood: Unlikely

NSAG Comment

The wind is likely to ease slightly as the evening progresses and allow the significant wave heights to reduce slightly. It is likely that marginal conditions will be maintained with significant wave heights of 0.7-0.9M through the rest of the night. There is a realistic possibility of increasingly favourable conditions along the west facing coast south of Boulogne-Sur-Mer.

Calais Tides (UTC):

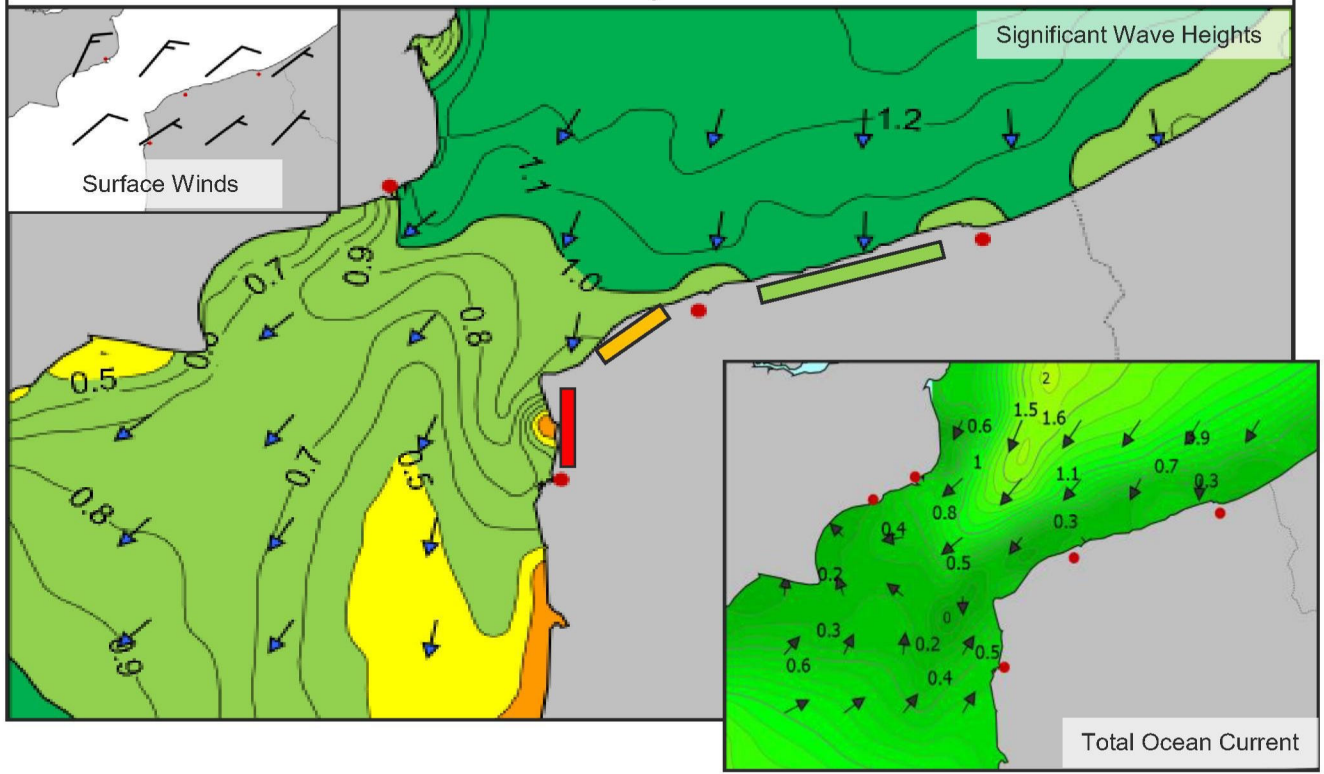
High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing conditions: 18UTC 22 November to 06UTC 23 November

00UTC Tuesday 23 November



Crossing likelihood: Unlikely

NSAG Comment
Little significant change

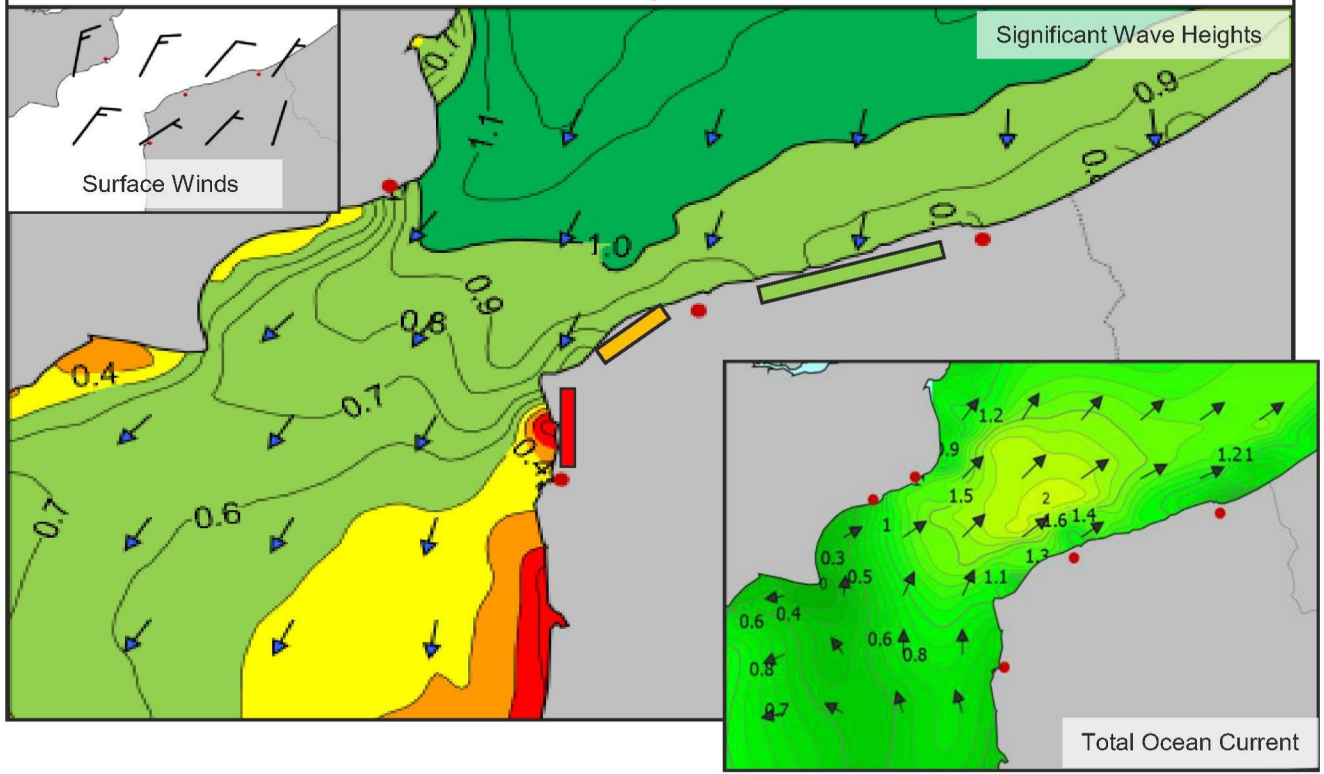
Calais Tides (UTC):

High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

03UTC Tuesday 23 November



Crossing likelihood: Unlikely

NSAG Comment
Increasingly favourable conditions are likely along the west facing coast south of Boulogne-Sur-Mer.

Calais Tides (UTC):

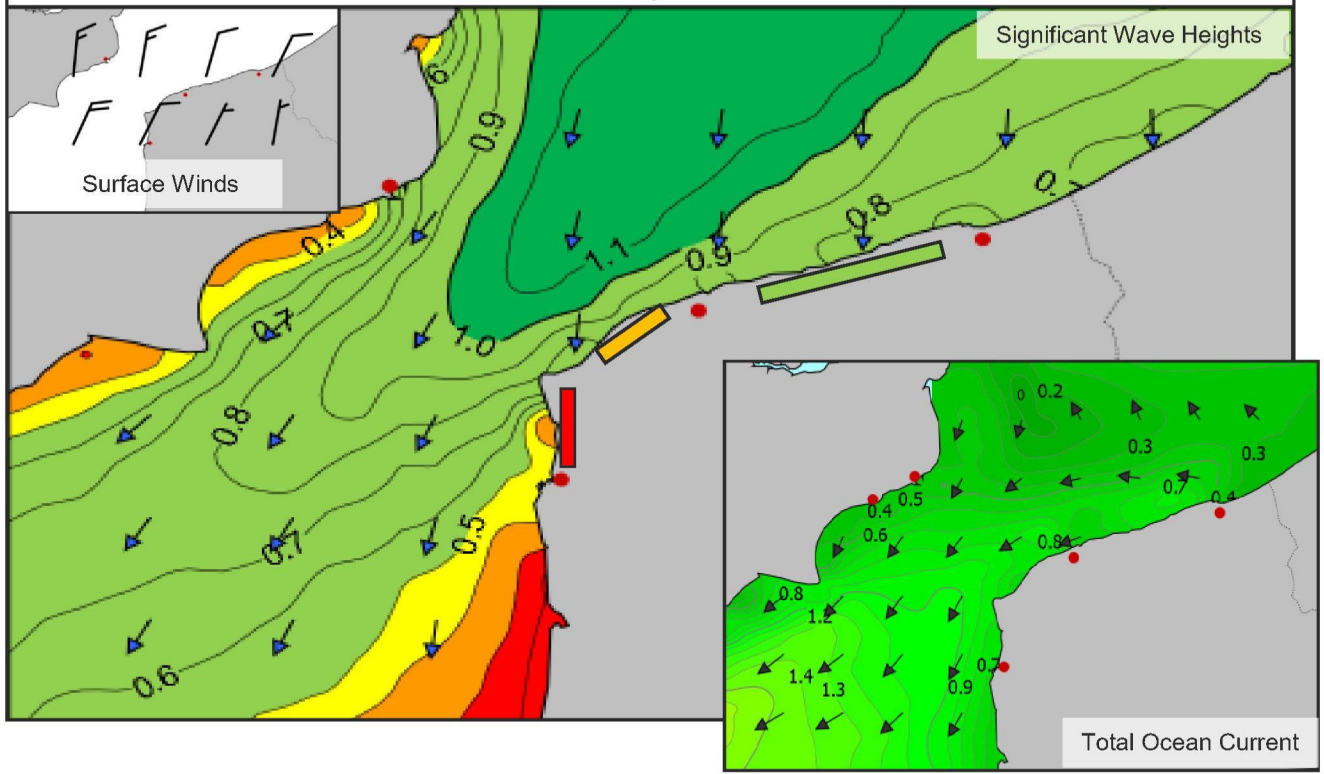
High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing conditions: 18UTC 22 November to 06UTC 23 November

06UTC Tuesday 23 November



Crossing likelihood: Unlikely

NSAG Comment
Little significant change

Calais Tides (UTC):

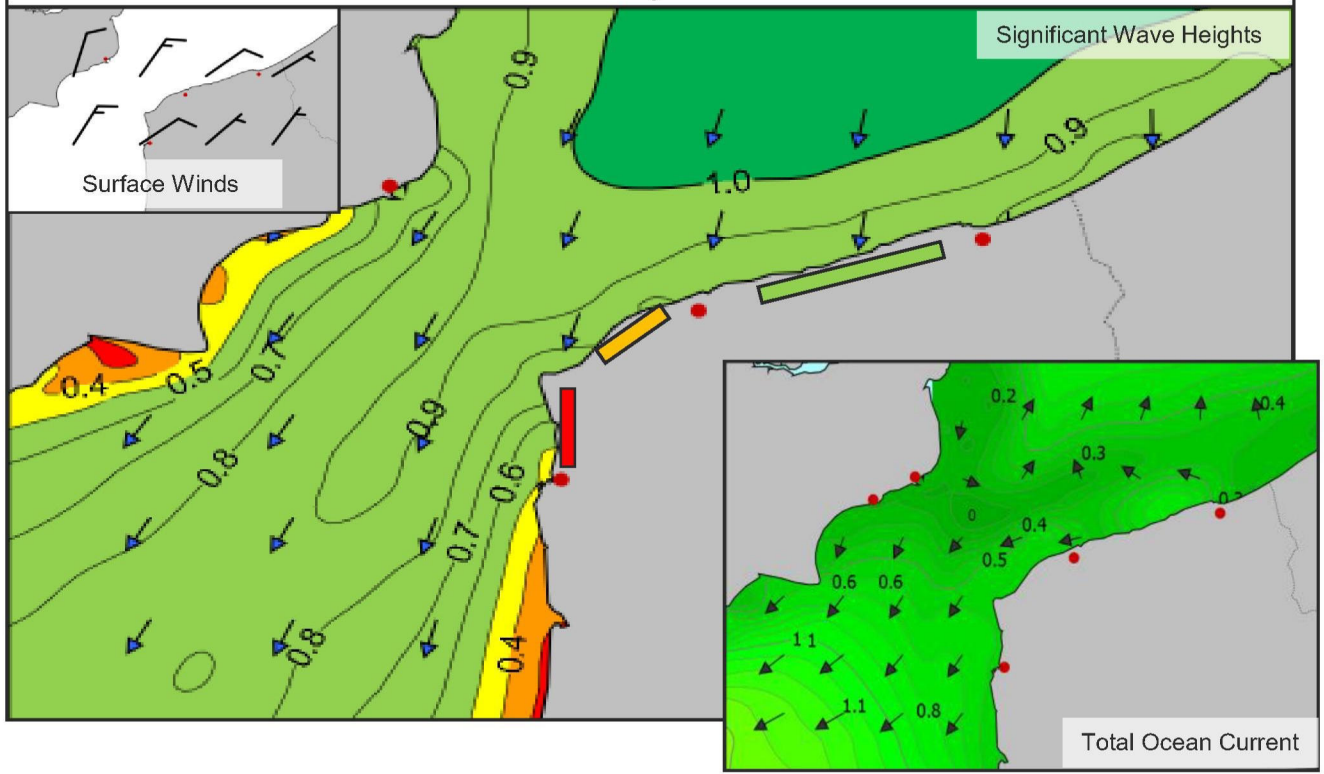
High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

English Channel Crossing conditions: 18UTC 23 November to 06UTC 24 November

18UTC Tuesday 23 November



Crossing likelihood: Unlikely

NSAG Comment

The moderate northeast wind is likely to persist through Tuesday and continue to drive significant wave heights of 0.7-1.0M, marginal crossing conditions. Therefore it is likely that favourable launch conditions will continue to be maintained on the sheltered west facing coast.

A narrow band of cloud and showers of rain is likely to persist through the night, aligned along the Channel. It is likely to lead to low cloud or possibly fog along the cliffs of Dover leading toa realistic possibility of impacts to AR3 operations from Swingate.

Windy.com shows a similar forecast throughout the night.

Calais Tides (UTC):

High	Low	High	Low
13:25	20:27	01:45	08:42
6.7	1.7	6.6	1.7

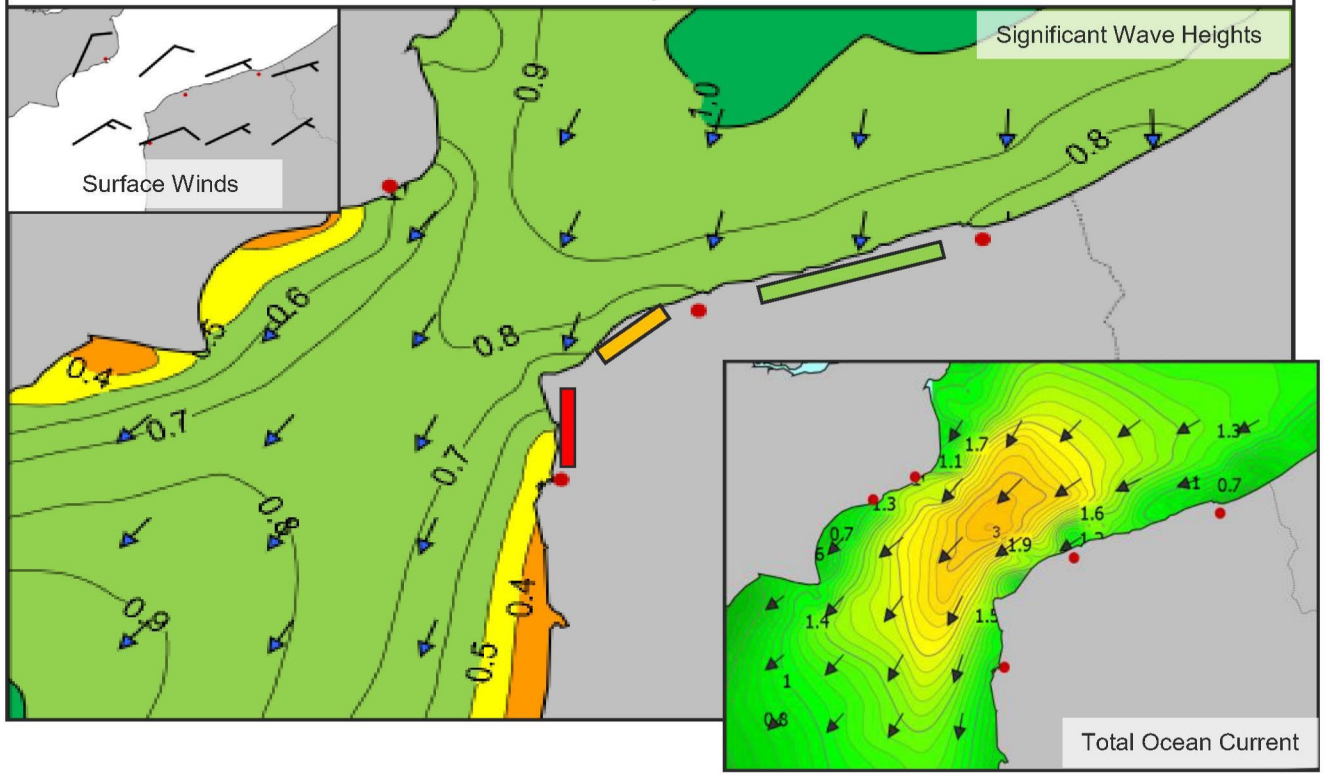
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing conditions: 18UTC 23 November to 06UTC 24 November

21UTC Tuesday 23 November



Crossing likelihood: Unlikely

NSAG Comment
Little significant change

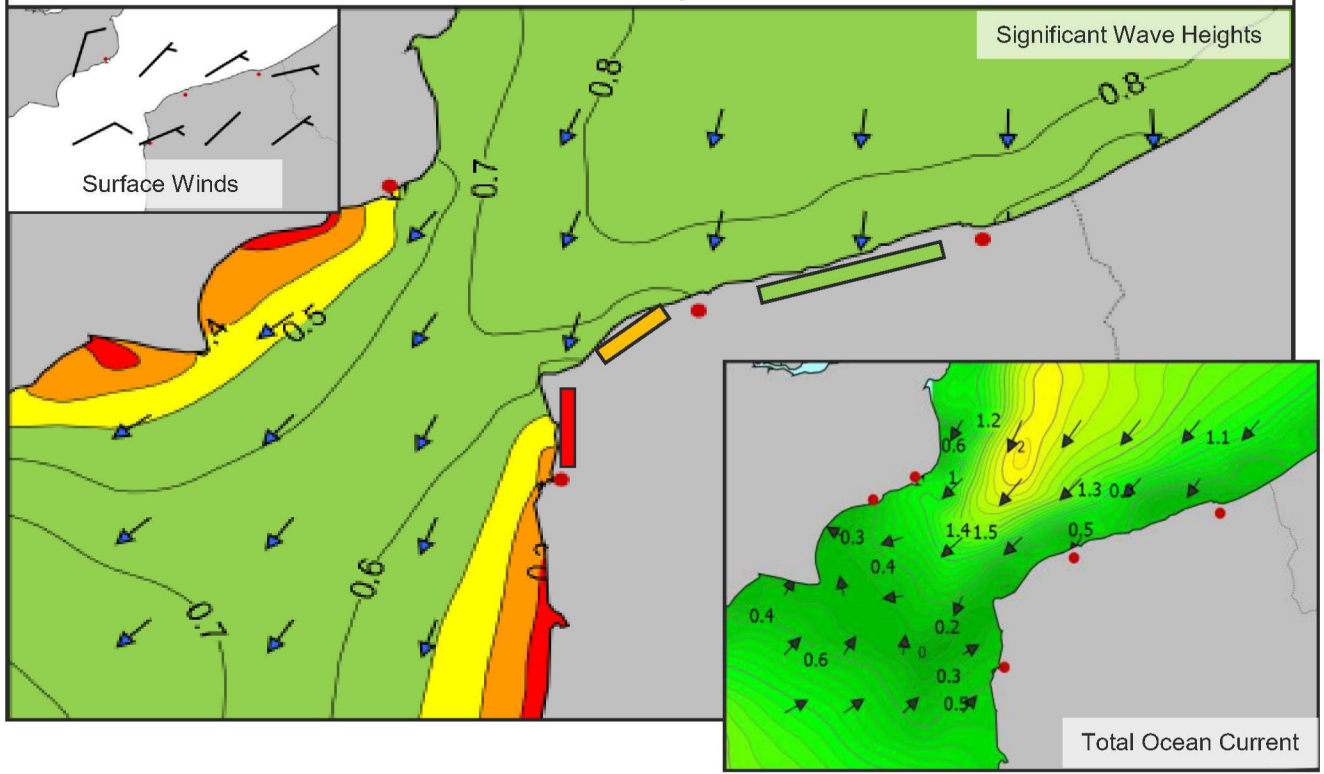
Calais Tides (UTC):

High	Low	High	Low
13:25	20:27	01:45	08:42
6.7	1.7	6.6	1.7

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

00UTC Wednesday 24 November



Crossing likelihood: Unlikely

NSAG Comment

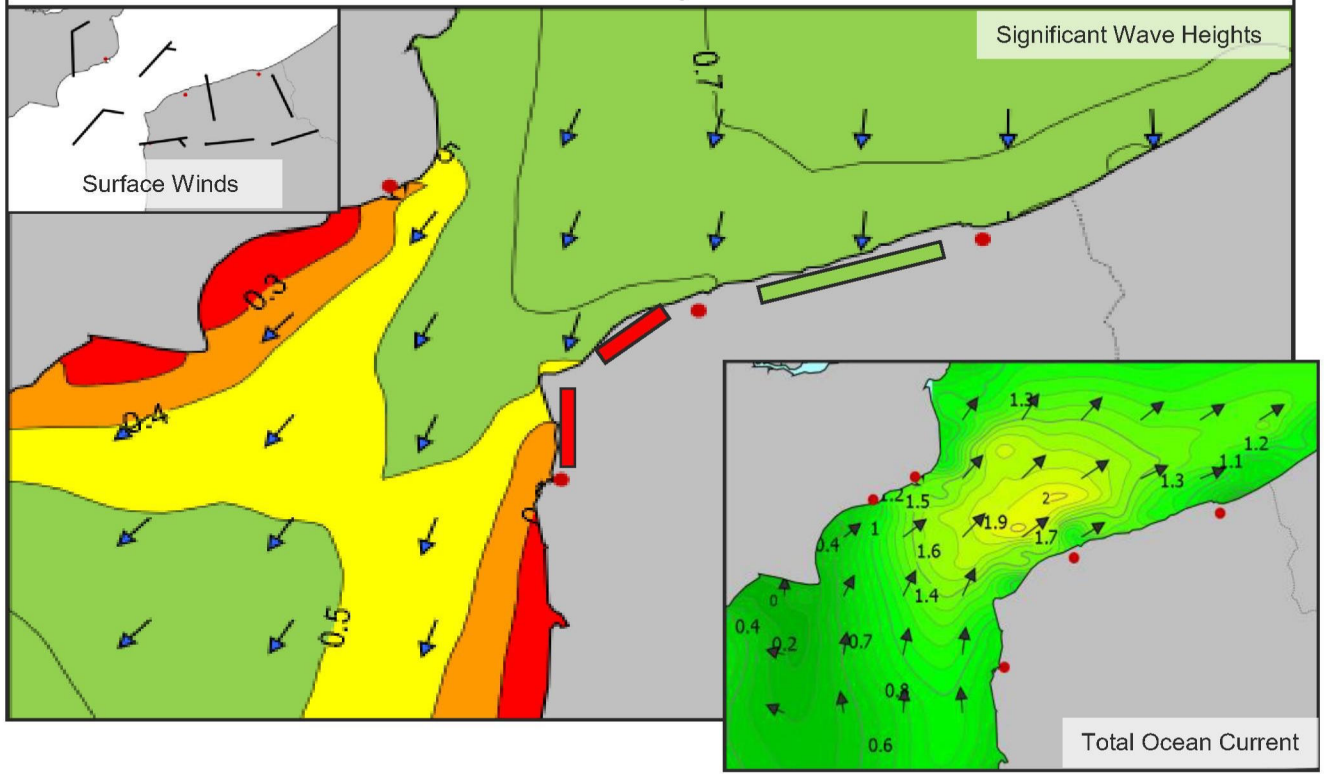
The wind is likely to become light and tend towards an easterly on the French side of the Channel leading to decreasing wave heights and increasing shelter along the French coast.

Calais Tides (UTC):

High	Low	High	Low
13:25	20:27	01:45	08:42
6.7	1.7	6.6	1.7

© Crown Copyright 2021 Met Office

03UTC Wednesday 24 November



Crossing likelihood: Realistic Possibility

NSAG Comment

Northerly winds are likely to persist in the English side of the Channel however elsewhere a light easterly wind is likely to allow decreasing wave heights and increasingly favourable crossing conditions, especially in the south of the area.

Calais Tides (UTC):

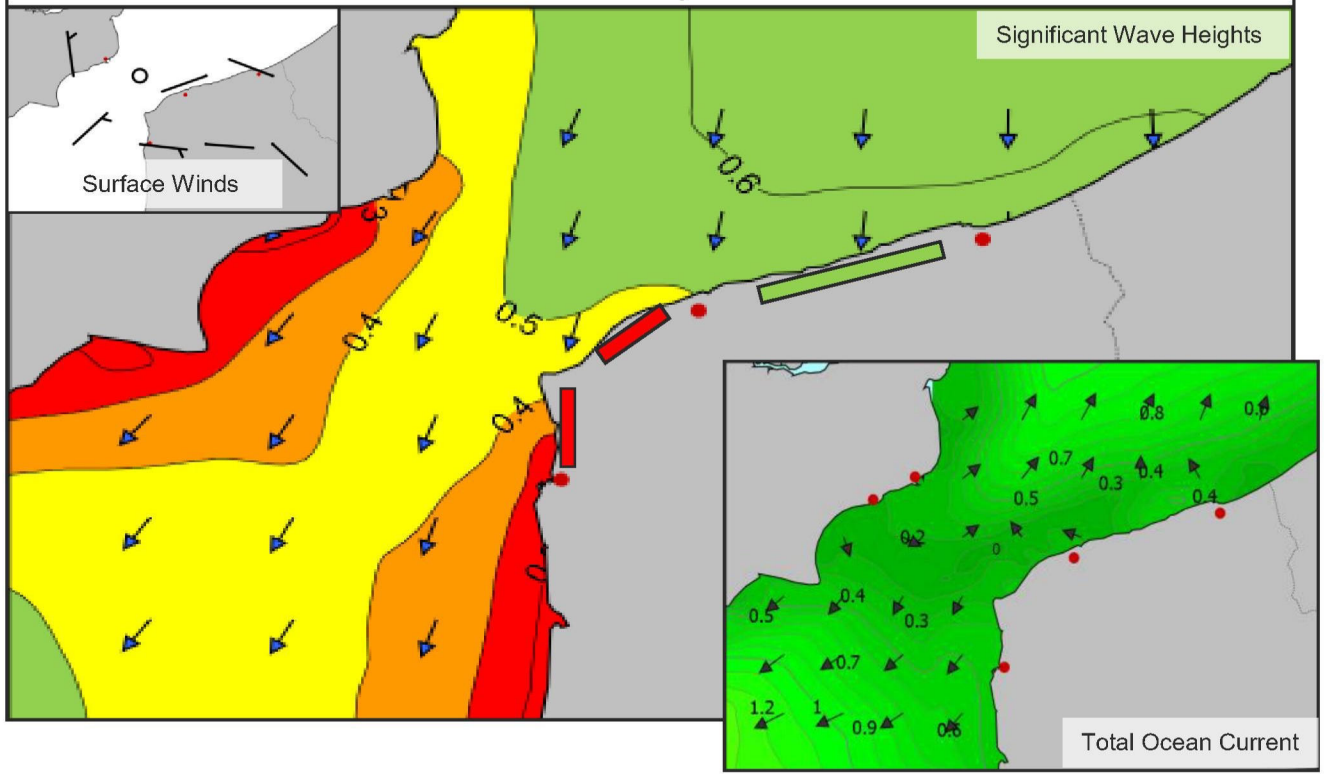
High	Low	High	Low
13:25	20:27	01:45	08:42
6.7	1.7	6.6	1.7

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing conditions: 18UTC 23 November to 06UTC 24 November

06UTC Wednesday 24 November



Crossing likelihood: Likely

NSAG Comment

Favourable crossing conditions are likely to quickly spread to all areas.

Calais Tides (UTC):

High	Low	High	Low
13:25	20:27	01:45	08:42
6.7	1.7	6.6	1.7

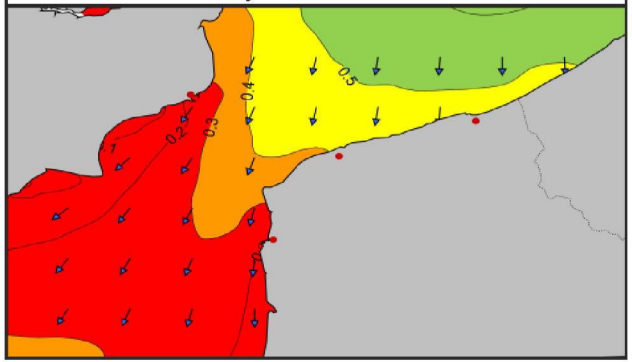
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

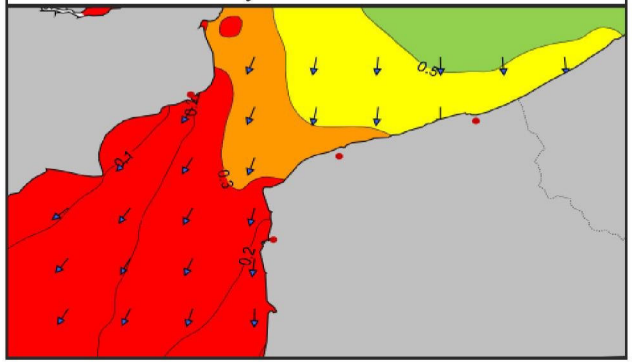
Met Office

English Channel Crossing conditions: 12UTC 24 November to 06UTC 25 November

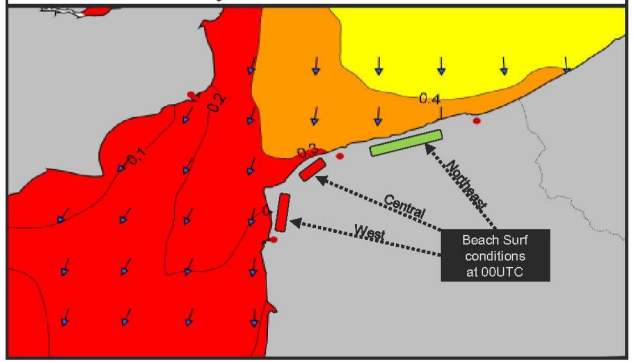
12UTC Wednesday 24 November



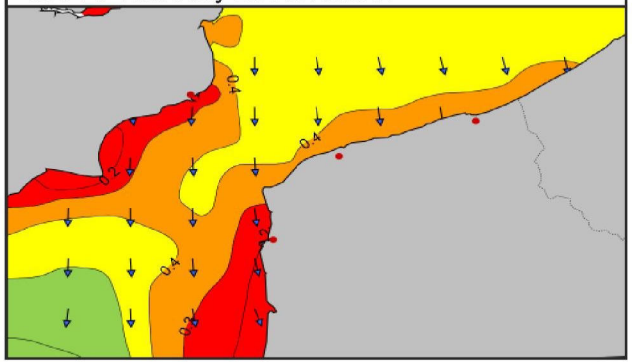
18UTC Wednesday 24 November



00UTC Thursday 25 November



06UTC Thursday 25 November



Crossing likelihood (22 to 06UTC only): Highly Likely

Optimal crossing conditions with significant wave heights of 0.3M or less likely west of the line Dover/Cap Gris Nez by 1500UTC. The window or optimal or favourable crossing conditions is likely to extend until 0900UTC on Thursday morning.

Patchy cloud through the night brings a small risk of impacting AR5 operations but this is currently assessed as unlikely, other aerial assets should have minimal/no impacts from the weather through the night.

Windy.com is showing a very similar forecast throughout.
Minimum Channel feels like temperature 3C

Calais Tides (UTC):

High	Low	High	Low
14:00	20:59	02:21	09:18
6.5	1.9	6.4	1.9

Moonset 12:04 Sunset 15:56 Moonrise 19:45 Sunrise 07:28

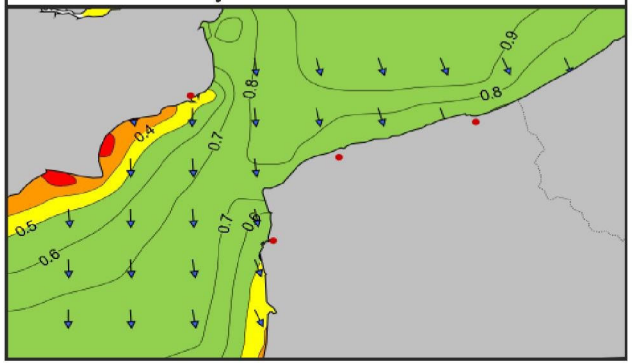
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

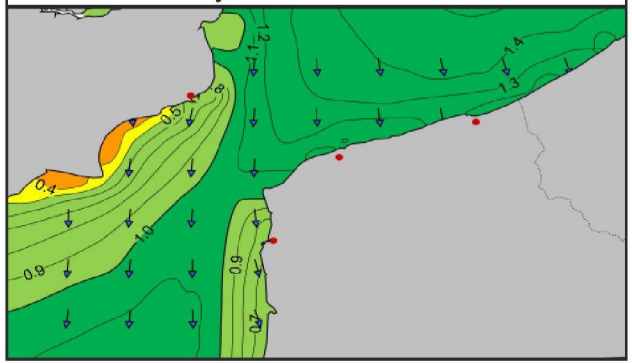
Met Office

English Channel Crossing conditions: 12UTC 25 November to 06UTC 26 November

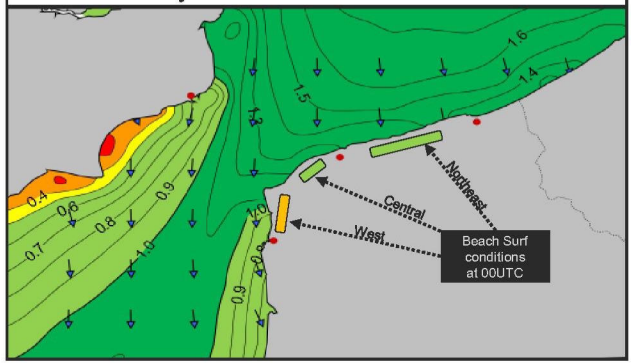
12UTC Thursday 25 November



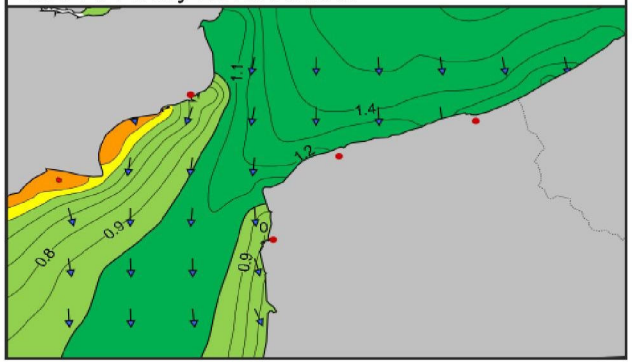
18UTC Thursday 25 November



00UTC Friday 26 November



06UTC Friday 26 November



Crossing likelihood (22 to 06UTC only): Highly Unlikely

Through the morning on Thursday there is likely to be a return to a strong north or northwest wind driving increasing significant wave heights in the Channel and bringing unfavourable launch and crossing conditions for small boats. It is also worth noting a further drop in temperatures coupled with the effect of the wind bringing sub zero feels like temperatures.

A few showers of rain are a realistic possibility early in the night but it is likely to be clearer later.

Minimum Channel feels like temperature -1C

Calais Tides (UTC):

High	Low	High	Low
14:40	21:40	03:05	10:06
6.3	2.1	6.2	2.1

Moonset 12:35 Sunset 15:55 Moonrise 20:55 Sunrise 07:29

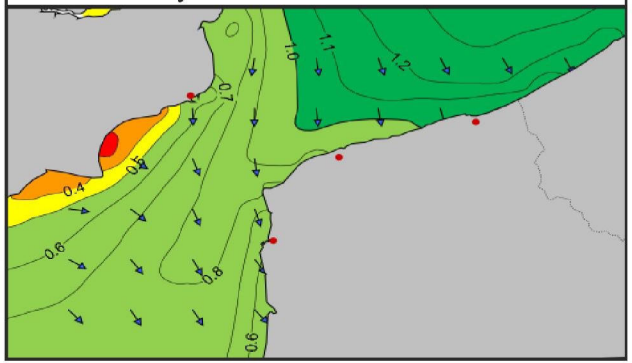
UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

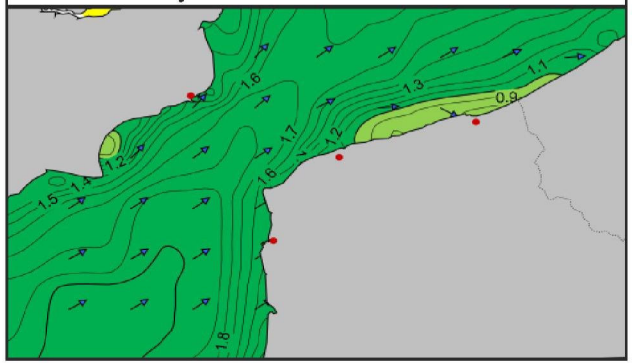
Met Office

English Channel Crossing conditions: 12UTC 26 November to 06UTC 27 November

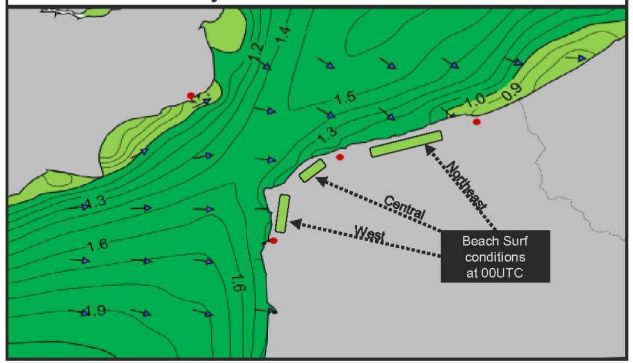
12UTC Friday 26 November



18UTC Friday 26 November



00UTC Saturday 27 November



Crossing likelihood (22 to 06UTC only): Highly Unlikely

Strong winds are likely to continue to drive unfavourable launching and crossing conditions through the night. A band of cloud and rain is likely to cross the area through the night this is likely to have been snow of sleet over high ground in the north of England but rain and possibly hail as it crosses the SE and the Channel. It is likely to turn back to snow as it moves inland through northern France.
Minimum Channel feels like temperature -1C

Moonset 13:00 Sunset 15:54 Moonrise 22:09 Sunrise 07:31

Calais Tides (UTC):

High	Low	High	Low
15:32	22:34	04:04	11:06
6.1	2.3	6.0	2.3

Outlook to Thursday 02 December:
A moderate to strong north or northwest wind is likely to quickly become established and then be maintained through the outlook period. This is likely to lead to unfavourable (perhaps marginal) crossing conditions through much of the week as the wind and waves run into the French coast. There is a small signal in some modelling of a short window of slightly more favourable conditions late in the week but there is a large amount of uncertainty relating to this.
Temperatures are likely to remain cold

UK OFFICIAL SENSITIVE

© Crown Copyright 2021 Met Office

Met Office

English Channel Crossing Conditions Summary

Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Monday, 22 November to 06UTC Tuesday, 23 November	3	Favourable	Marginal	Unfavourable	Unlikely
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November	5	Favourable	Marginal	Unfavourable	Likely
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November	3	Favourable	Favourable	Unfavourable	Highly Likely
22UTC Thursday, 25 November to 06UTC Friday, 26 November	-1	Marginal	Unfavourable	Unfavourable	Highly Unlikely
22UTC Friday, 26 November to 00UTC Saturday, 27 November	-1	Unfavourable	Unfavourable	Unfavourable	Highly Unlikely
22UTC Saturday, 27 November to 06UTC Sunday, 28 November					Highly Unlikely
22UTC Sunday, 28 November to 06UTC Monday, 29 November					Highly Unlikely
22UTC Monday, 29 November to 06UTC Tuesday, 30 November					Realistic Possibility
22UTC Tuesday, 30 November to 06UTC Wednesday, 01 December					Unlikely
22UTC Wednesday, 01 December to 06UTC Thursday, 02 December					Unlikely

© Crown Copyright 2021 Met Office