

# Op DEVERAN Weather Assessment

Valid from 12UTC Tuesday 16 November to 06UTC Friday, 26 November 2021

Forward look 30 days issued each Wednesday

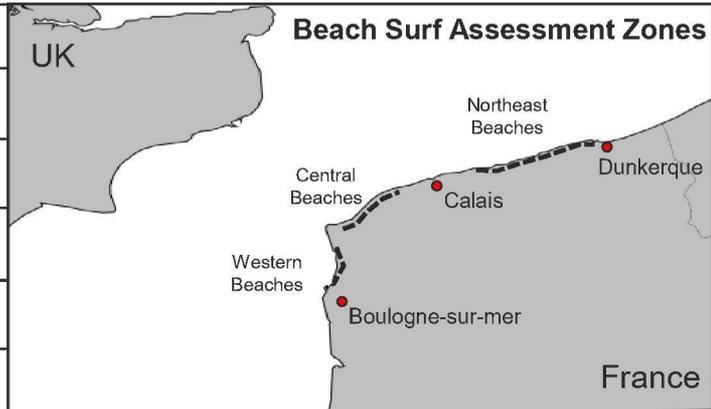
Issued by Met Office NSAG: 1130UTC Tuesday 16 November 2021

Next routine issue: 12UTC Wednesday 17 November 2021

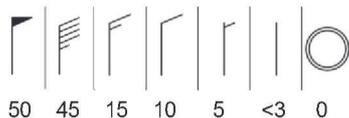
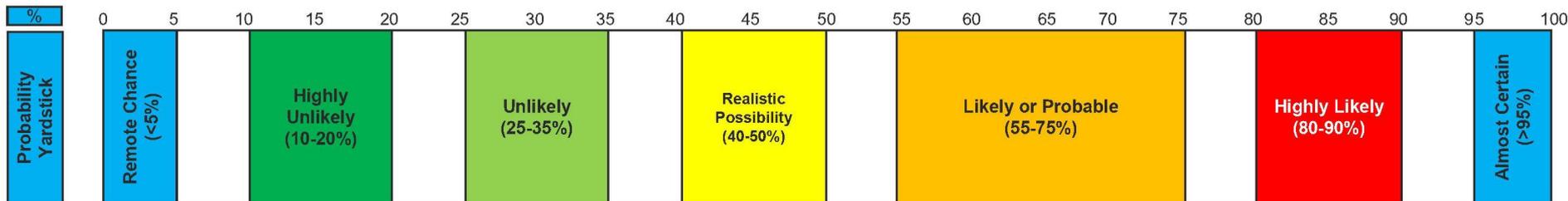
Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Tuesday, 16 November to 06UTC Wednesday, 17 November	5	Marginal	Favourable	Favourable	Likely
22UTC Wednesday, 17 November to 06UTC Thursday, 18 November	5	Marginal	Marginal	Unfavourable	Unlikely
22UTC Thursday, 18 November to 06UTC Friday, 19 November	10	Unfavourable	Marginal	Marginal	Unlikely
22UTC Friday, 19 November to 06UTC Saturday, 20 November	10	Marginal	Favourable	Marginal	Highly Likely
22UTC Saturday, 20 November to 00UTC Sunday, 21 November	5	Favourable	Favourable	Marginal	Realistic Possibility (low confidence)
22UTC Sunday, 21 November to 06UTC Monday, 22 November					Highly Unlikely (moderate confidence)
22UTC Monday, 22 November to 06UTC Tuesday, 23 November					Unlikely (moderate confidence)
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November					Unlikely (moderate confidence)
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November					Realistic Possibility (low confidence)
22UTC Thursday, 25 November to 06UTC Friday, 26 November					Realistic Possibility (low confidence)

*This forecast is not subject to amendment*

Colour	Significant Wave Height	Impact
<span style="background-color: green; color: white; padding: 2px;"> </span>	>1m	Greatly limited crossing activity, mostly associated with larger vessels more able to operate in adverse sea conditions.
<span style="background-color: lightgreen; color: black; padding: 2px;"> </span>	>0.5m to 1m	Limited crossing activity in marginal conditions.
<span style="background-color: yellow; color: black; padding: 2px;"> </span>	>0.4 to 0.5m	Increased crossing activity. Upper limit of favourable conditions.
<span style="background-color: orange; color: black; padding: 2px;"> </span>	≥0.3 to 0.4m	Increased crossing activity and favourable conditions.
<span style="background-color: red; color: white; padding: 2px;"> </span>	<0.3m	Greatly increased crossing activity. Optimum conditions.



## Probability Yardstick

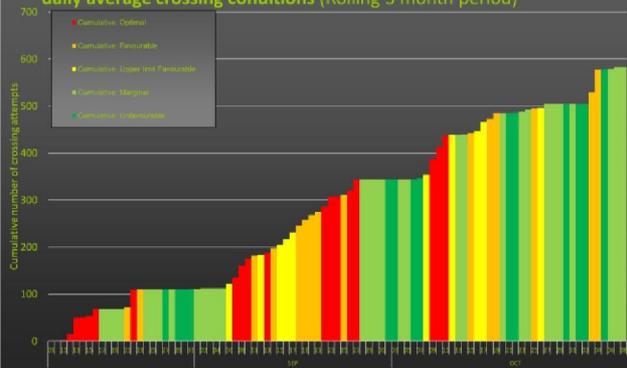


Wind Barbs show the direction the wind is coming from and add up in 5 knot (KT) increments (rounded to the closest 5KT)

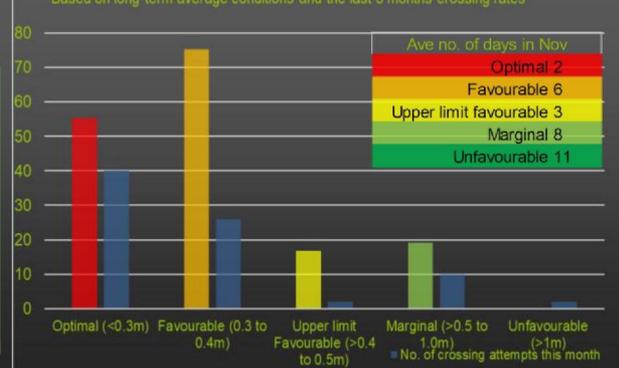
Significant wave height contours in 0.1M intervals. Ocean current contours in 0.1KT intervals. Total ocean current accounts for tidal flow and meteorological effects on ocean currents. All times UTC. All temperatures oC. All heights M.

## Other

**Fig. 1 Cumulative number of crossing attempts (boats) and daily average crossing conditions (Rolling 3 month period)**



**Fig. 2 Predicted Small Boat Crossing Events, November 2021**  
Based on long term average conditions and the last 3 months crossing rates



## Monthly Forecast for November 2021

	2020 Actual	2021 Forecast	Recorded
No. of boats	97	133	80
Average migrants per boat	18	37	37
No. of migrants	1791	4902	2945
French interception rate	59%	50%	50%
No. of migrants (UK arrivals)	757	2451	1378

## Monthly Forecast for December 2021

	2020 Actual	2021 Forecast
No. of boats	31	126
Average migrants per boat	15	37
No. of migrants	468	4628
French interception rate	58%	50%
No. of migrants (UK arrivals)	211	2314

*'Attempt' includes aborted attempts from beaches but not inland dispersals. Data correct up to 08/11/2021. \* 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 Tuesday, 16 November to 06UTC Wednesday, 17 November	5	Marginal	Favourable	Favourable	Likely
22UTC Wednesday, 17 November to 06UTC Thursday, 18 November	5	Marginal	Marginal	Unfavourable	Unlikely
22UTC Thursday, 18 November to 06UTC Friday, 19 November	10	Unfavourable	Marginal	Marginal	Unlikely
22UTC Friday, 19 November to 06UTC Saturday, 20 November	10	Marginal	Favourable	Marginal	Highly Likely
22UTC Saturday, 20 November to 06UTC Sunday, 21 November	5	Favourable	Favourable	Marginal	Realistic Possibility (low confidence)
22UTC Sunday, 21 November to 06UTC Monday, 22 November					Highly Unlikely (moderate confidence)
22UTC Monday, 22 November to 06UTC Tuesday, 23 November					Unlikely (moderate confidence)
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November					Unlikely (moderate confidence)
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November					Realistic Possibility (low confidence)
22UTC Thursday, 25 November to 06UTC Friday, 26 November					Realistic Possibility (low confidence)

**Discussion:** Fig1 shows a continued preference for favourable conditions or better although noticeable in Fig2 is a visible increase in crossing attempts in marginal or unfavourable conditions. This increased risk appetite has become increasingly evident as windows of favourable conditions have become sparse and short.

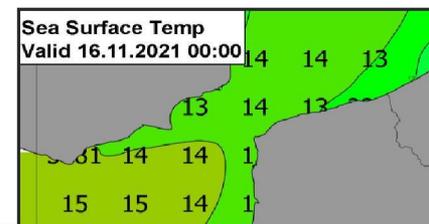
### Headlines Days 1-10 (updated 16 Nov):

- The current window of favourable or optimal crossing conditions is likely to until midnight tonight.
- From midnight onwards a strengthening wind is likely to deteriorate conditions. Good agreement on Windy.com.
- Wednesday morning to Friday, inclusive, marginal crossing conditions (significant wave heights of 0.5-0.9M) are likely along with a moderate to fresh westerly wind. There is good agreement across open source forecasts inc Windy.com.
- Crossing attempts are highly likely on Saturday morning as significant wave heights temporarily lower to 0.2-0.4M. Windy.com is showing 0.4M.
- The end of this crossing window is very uncertain with plausible scenarios bringing marginal or unfavourable crossing conditions anytime between Saturday evening and Sunday lunchtime.
- A northerly wind develops at the end of the weekend and is likely to bring marginal or unfavourable crossing conditions through much of next week.

**Outlook for 30 days:** Low confidence remains in the details during this period however the preferred scenario is for a west or northwesterly flow to prevail for the end of the month with a north or northwesterly into mid December. 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.

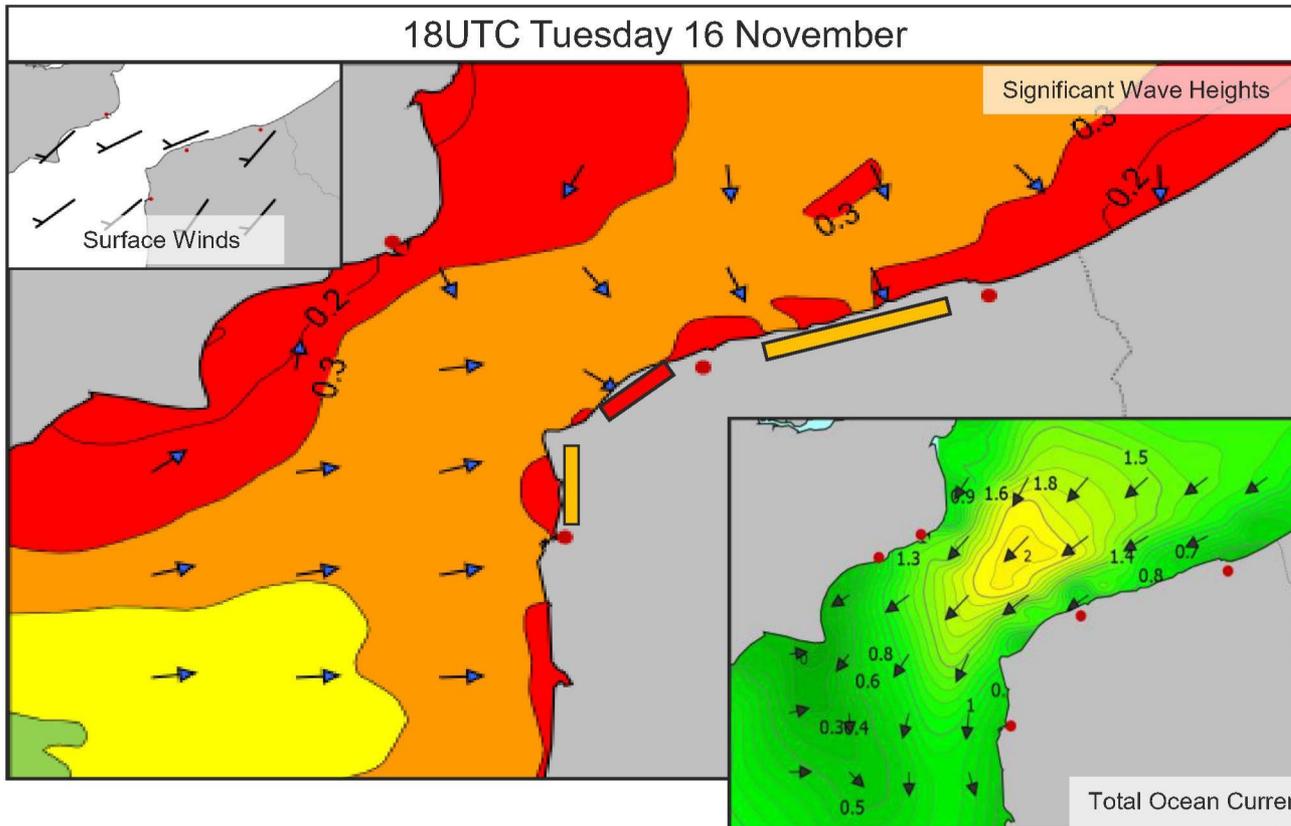
*Figures, discussion and 30 day outlook normally updated on Wednesdays*

# 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	16 Nov					17 November					18 November					19 Nov					
Time (UTC)	18	21	00	03	06		18	21	00	03	06		18	00	06						
Cutter																					
CPV (Dover)																					
RHIB (Dover)																					
UAV (AR5 - Lydd)		Cloud			Cloud								Cloud	Fog risk							
UAV (AR3 - Dover)														Fog risk							
MCA fixed wing (Doncaster)																					
MCA Helicopter (Lydd)														Fog risk							
Solar times (UTC)	Sunset 16:05					Sunrise 07:15					Sunset 16:04					Sunrise 07:17			Sunset 16:03		
Crossing attempt likelihood																					
Lowest feels like air temp (C)	5	5	6	7	7	7	6	6	5	5	10	10	10	10	10						
French coast precip' (% chance)	40	10	10	20	20	10	10	10	10	10	10	10	10	10	10						
Wind Direction	SW	WSW	WSW	NW	NW	WNW	W	W	W	W	W	W	W	W	W						
Wind Speed (KT)	8	8	10	12	15	12	12	12	12	12	12	12	12	12	12						



**Crossing likelihood: Likely**

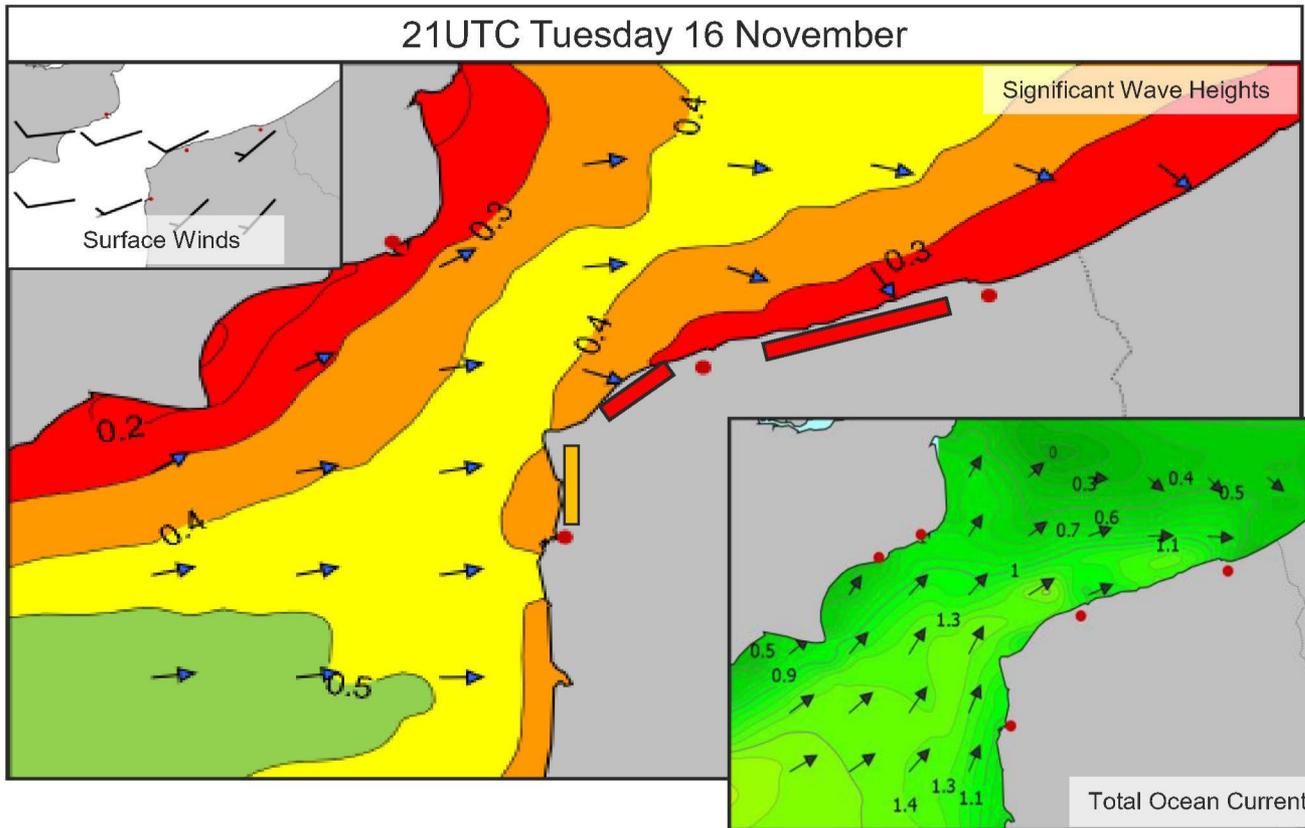
**NSAG Comment**

Favourable or optimal crossing conditions are likely to continue through this afternoon and into the first half of the night as the winds remain light and significant wave heights 0.3M or less across much of the Channel.

Breaks in the cloud are likely to develop through the afternoon leaving improved conditions for aviation assets. There remains a small risk of patches of lower cloud and light rain or drizzle bringing impacts to AR5 operations at times overnight.

**Calais Tides (UTC):**

Low	High	Low	High
16:40	21:53	04:56	10:06
1.3	6.9	1.4	6.9

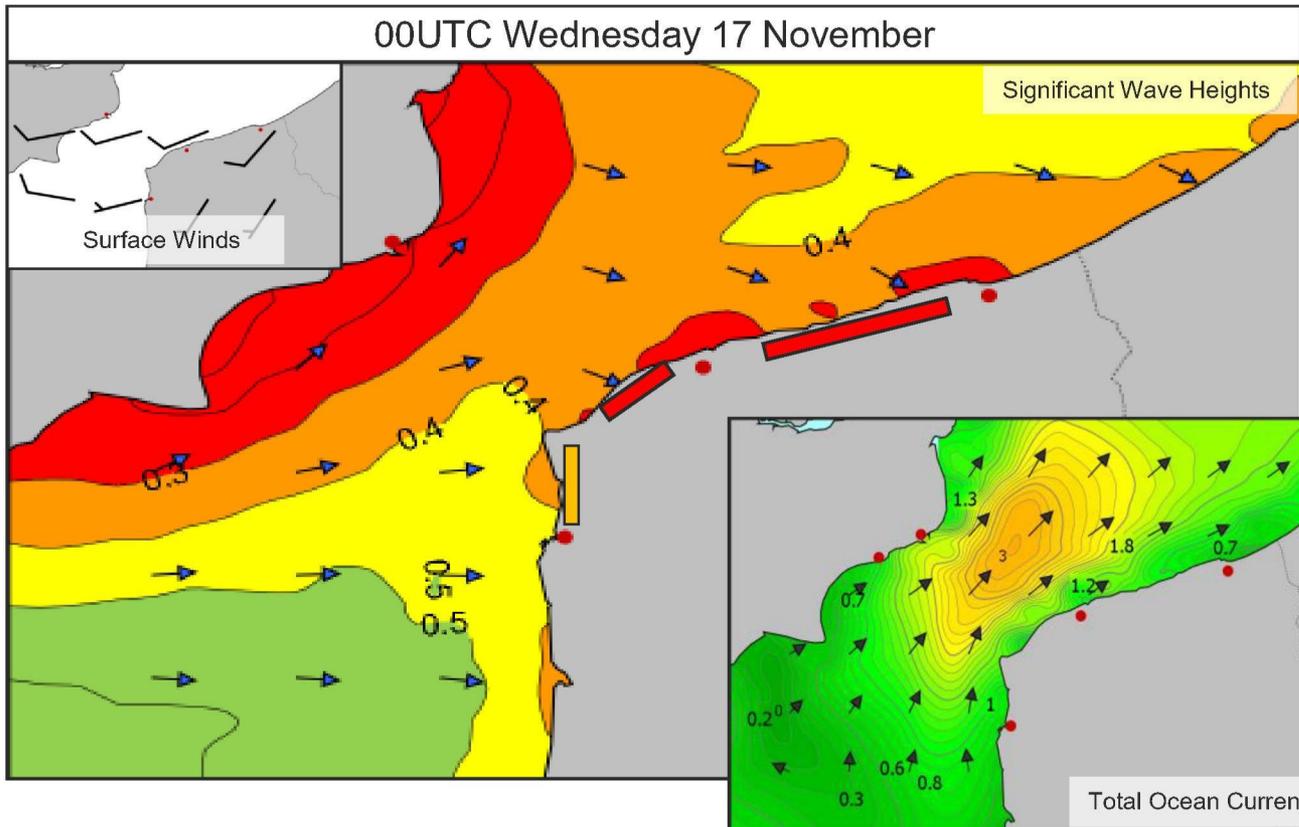


**Crossing likelihood: Likely**

**NSAG Comment**  
A very gradual increase in significant wave heights is likely as the wind slowly increases from a west-southwesterly direction. Favourable launch conditions are likely to persist on central and northeast beaches for a time, along with favourable conditions close to the shore leading to an assessment that crossings will remain likely.

**Calais Tides (UTC):**

Low	High	Low	High
16:40	21:53	04:56	10:06
1.3	6.9	1.4	6.9



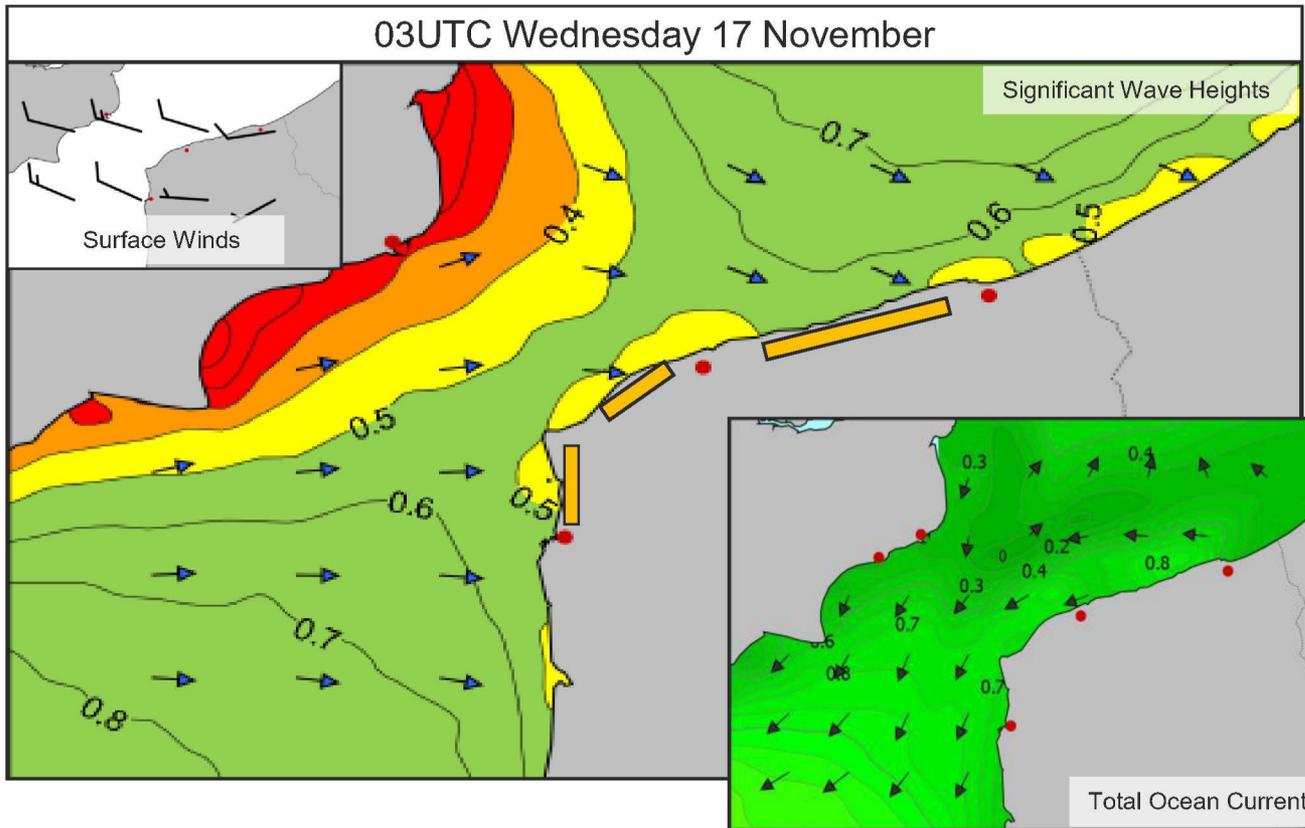
**Crossing likelihood: Likely**

**NSAG Comment**

Little significant change is expected before midnight.

**Calais Tides (UTC):**

Low	High	Low	High
16:40	21:53	04:56	10:06
1.3	6.9	1.4	6.9



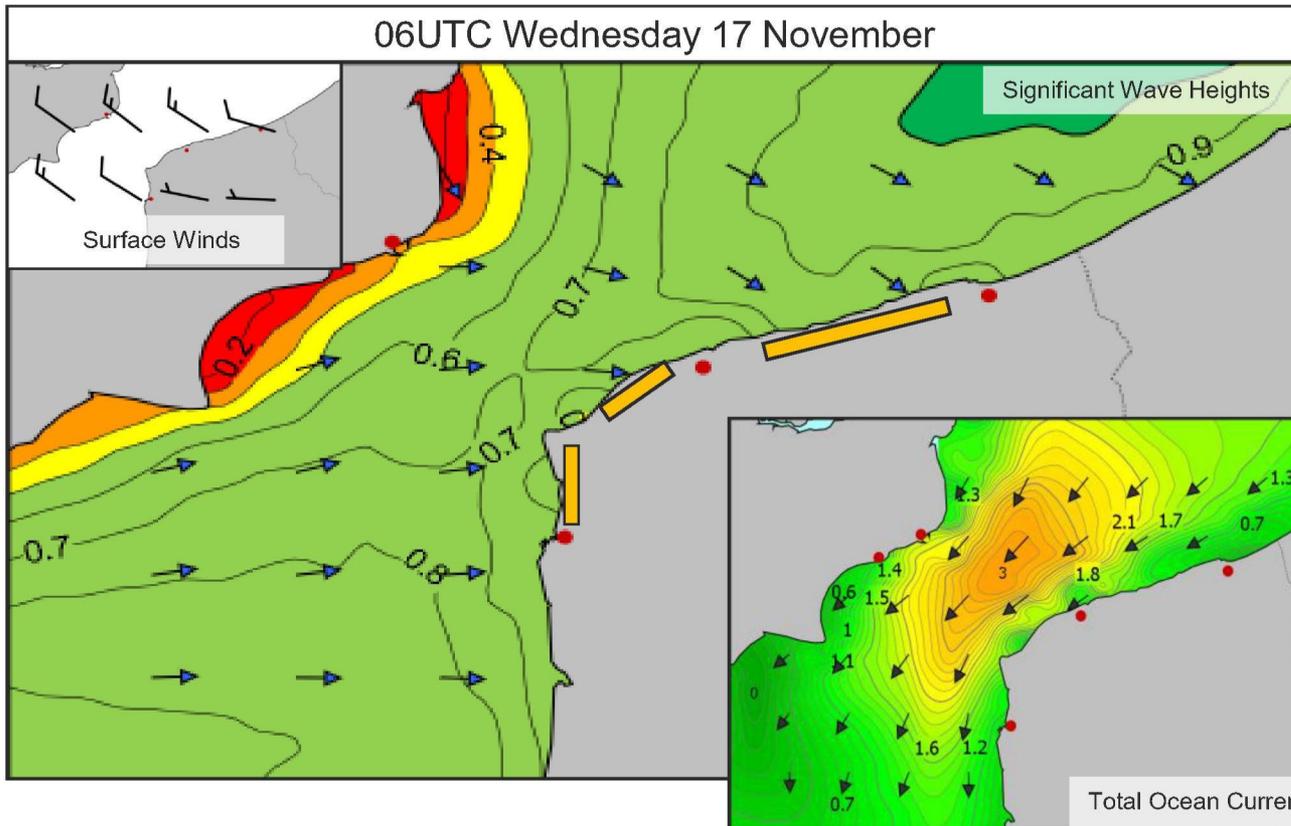
**Crossing likelihood: Unlikely**

**NSAG Comment**  
After midnight the wind is likely to increase from a west-northwesterly direction and lead to deteriorating conditions on the French side of the Channel.

Windy.com shows a similar deterioration as the Met Office models pictured in this assessment.

**Calais Tides (UTC):**

Low	High	Low	High
16:40	21:53	04:56	10:06
1.3	6.9	1.4	6.9



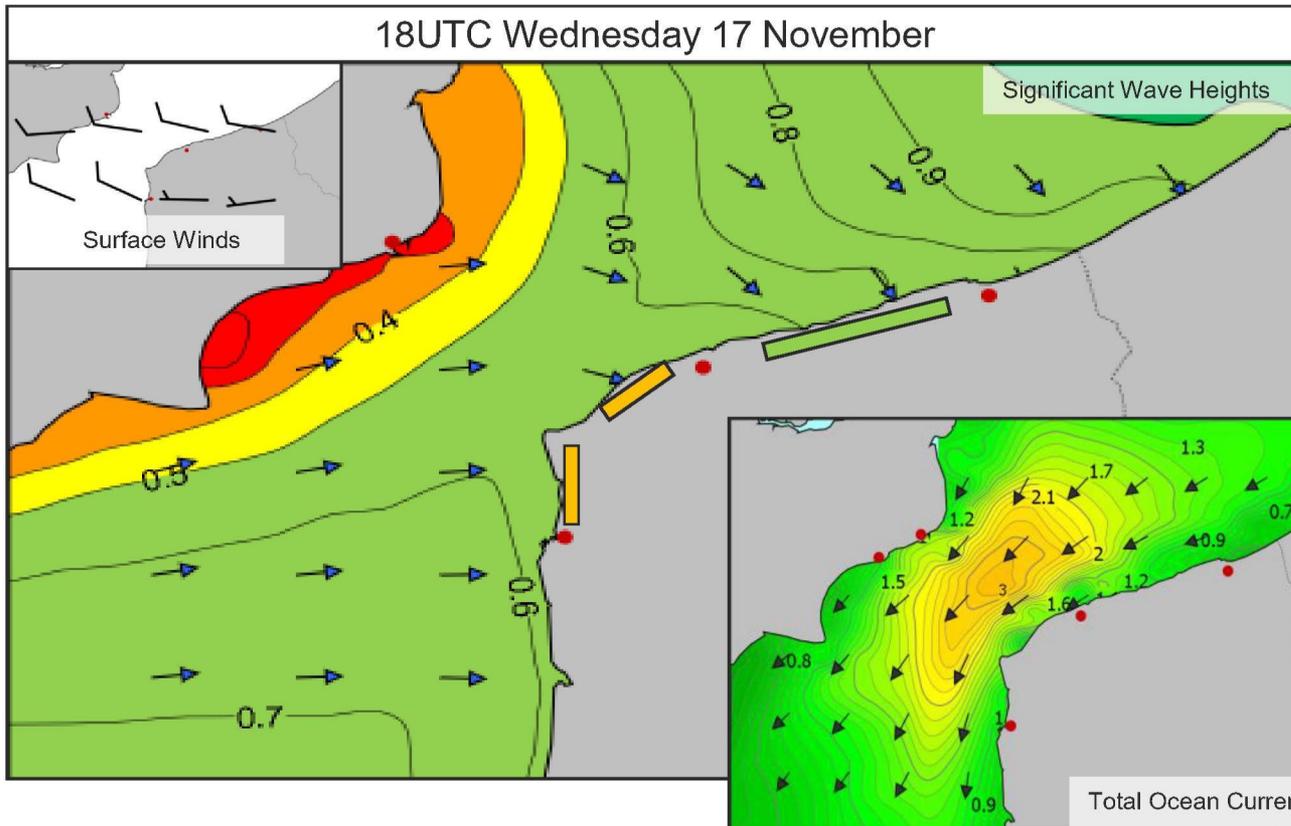
**Crossing likelihood: Unlikely**

**NSAG Comment**

Marginal launching and crossing conditions are likely to be widespread before the end of the night as the moderate northwest wind drives increasing significant wave heights onto the French coast.

**Calais Tides (UTC):**

Low	High	Low	High
16:40	21:53	04:56	10:06
1.3	6.9	1.4	6.9



**Crossing likelihood: Unlikely**

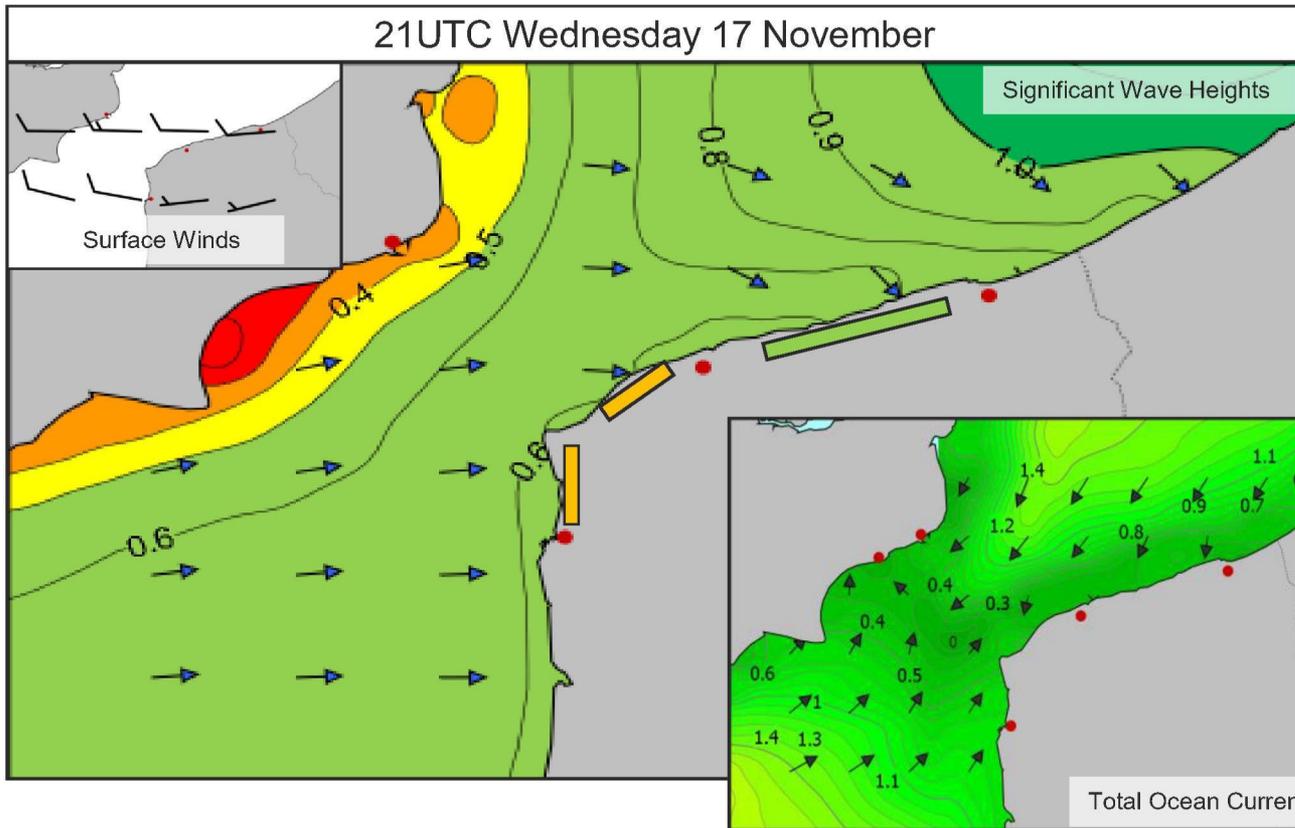
**NSAG Comment**

Marginal launching and crossing conditions are likely to persist through the day as the light to moderate west or northwest wind maintains significant wave heights of 0.5-0.8M in the Channel and due to the direction leaves all the French coast exposed to the wind and waves.

Largely clear skies and good visibility are likely through the night leading to no impacts to aerial or maritime operations.

**Calais Tides (UTC):**

Low	High	Low	High
17:18	22:30	05:30	10:42
1.2	7.0	1.3	7.0

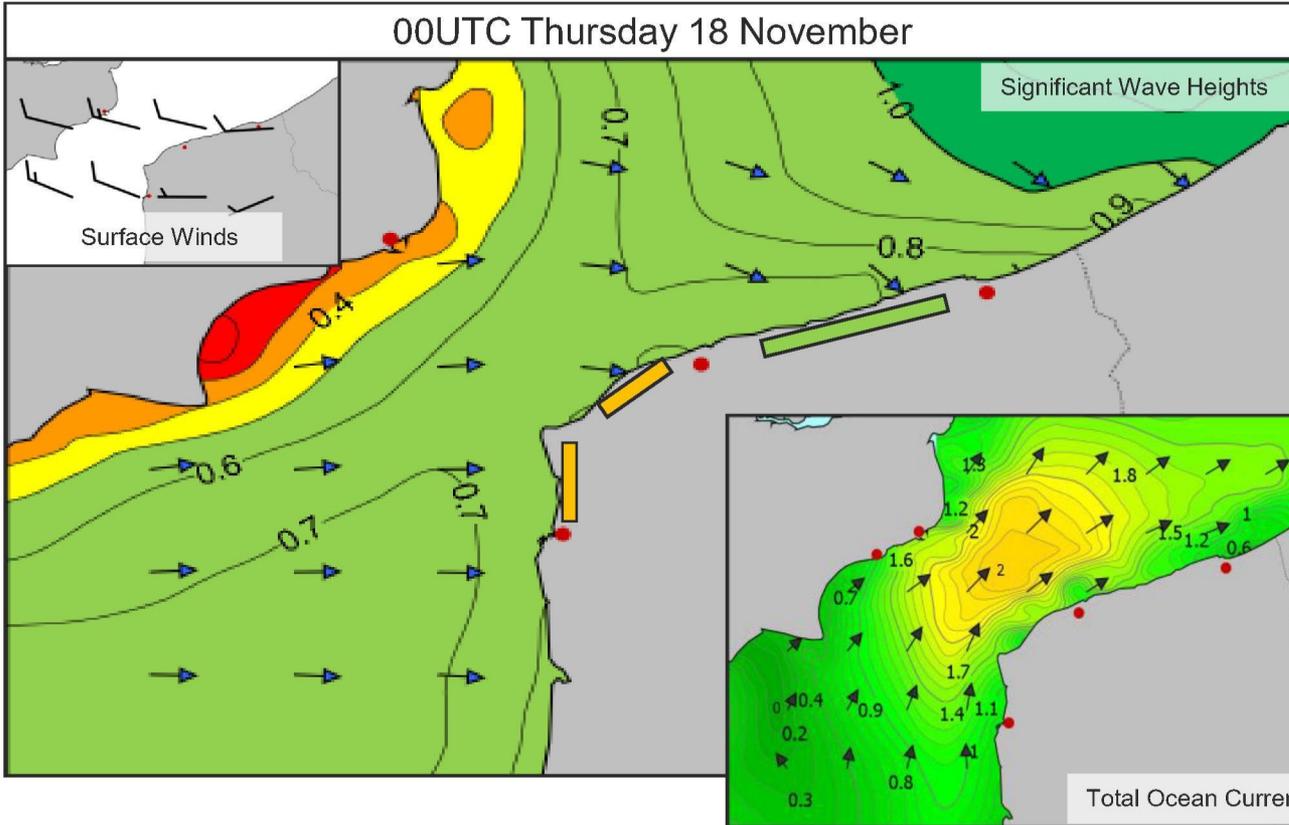


Crossing likelihood: Unlikely

**NSAG Comment**  
Little significant change

**Calais Tides (UTC):**

Low	High	Low	High
17:18	22:30	05:30	10:42
1.2	7.0	1.3	7.0



Crossing likelihood: Unlikely

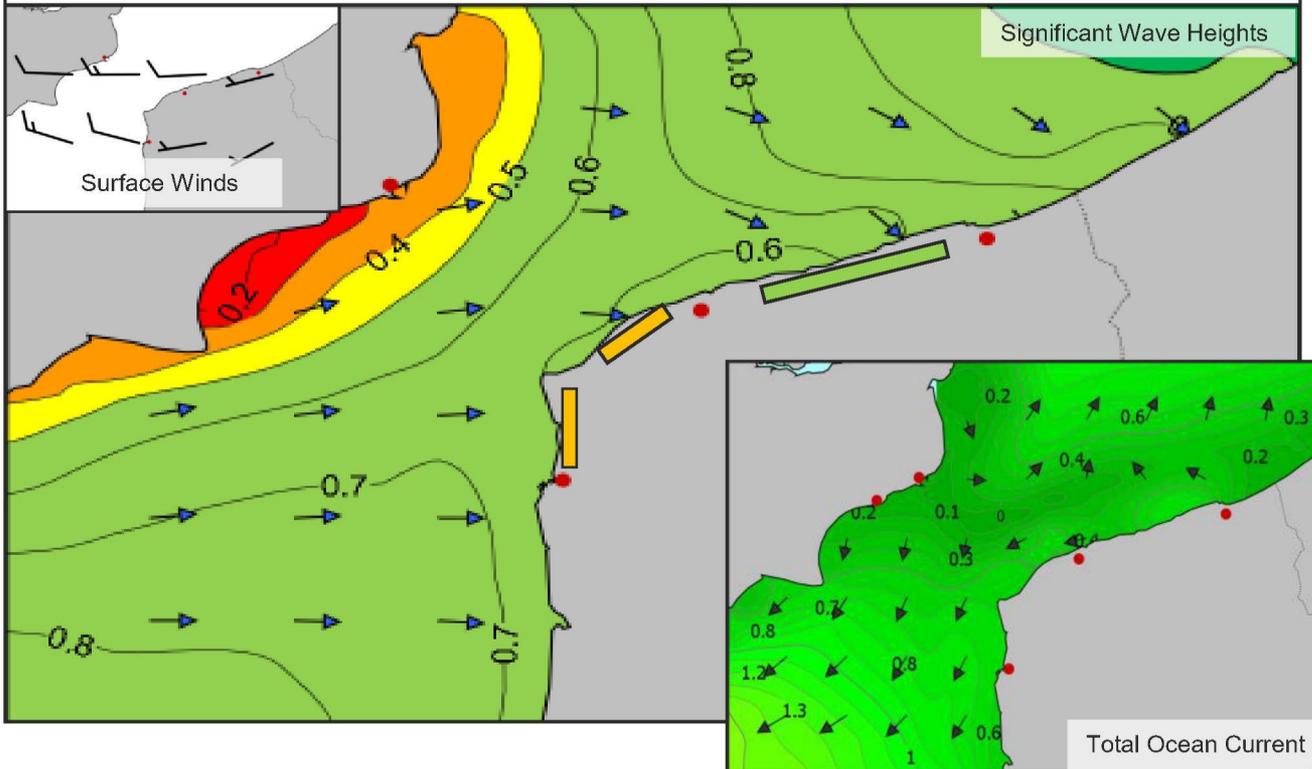
**NSAG Comment**

Little significant change

**Calais Tides (UTC):**

Low	High	Low	High
17:18	22:30	05:30	10:42
1.2	7.0	1.3	7.0

03UTC Thursday 18 November



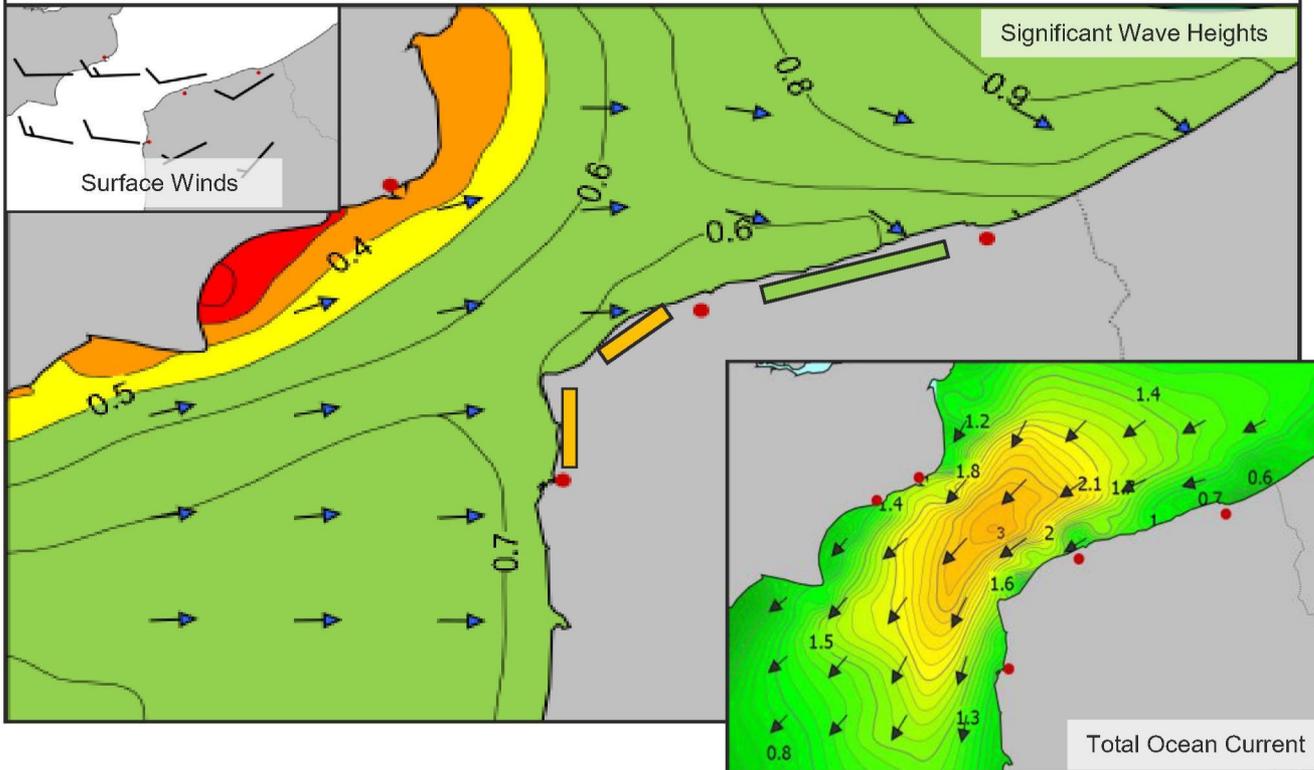
Crossing likelihood: Unlikely

**NSAG Comment**  
Little significant change

**Calais Tides (UTC):**

Low	High	Low	High
17:18	22:30	05:30	10:42
1.2	7.0	1.3	7.0

06UTC Thursday 18 November



Crossing likelihood: Unlikely

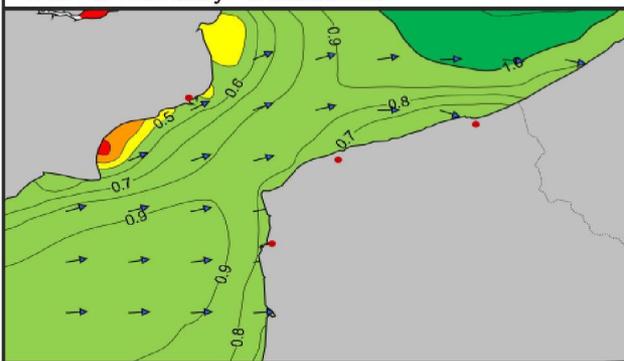
**NSAG Comment**

Little significant change

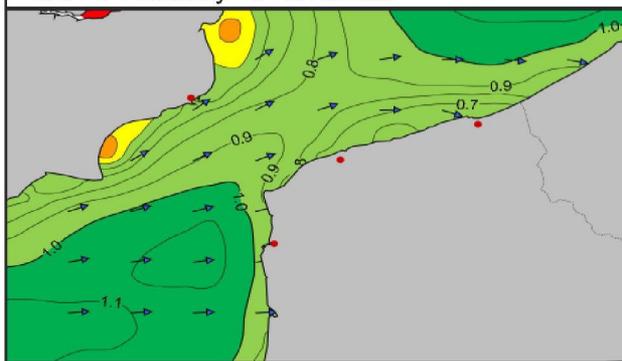
**Calais Tides (UTC):**

Low	High	Low	High
17:18	22:30	05:30	10:42
1.2	7.0	1.3	7.0

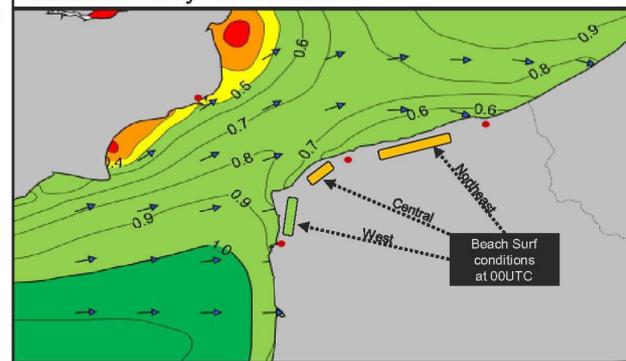
12UTC Thursday 18 November



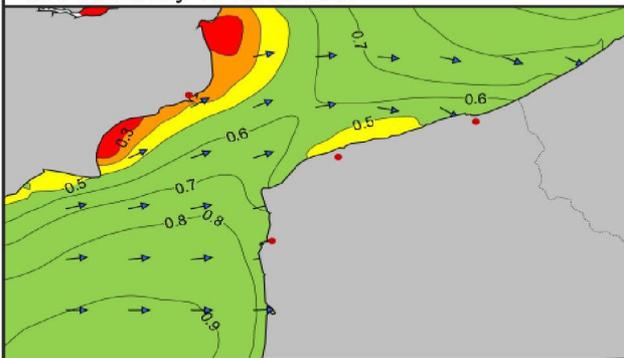
18UTC Thursday 18 November



00UTC Friday 19 November



06UTC Friday 19 November



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

Marginal conditions are likely to be maintained through Thursday and into Friday as a moderate to fresh westerly wind continues to drive significant wave heights of 0.6-0.9M in the Channel. It is likely to be a cloudy night with a risk of patchy rain or drizzle and then fog later in the night in southern England.

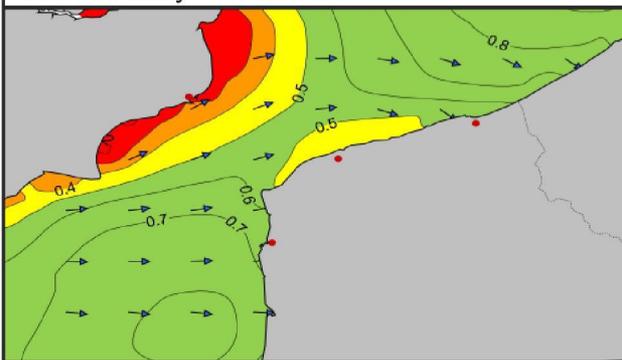
Minimum Channel feels like temperature 10C

**Calais Tides (UTC):**

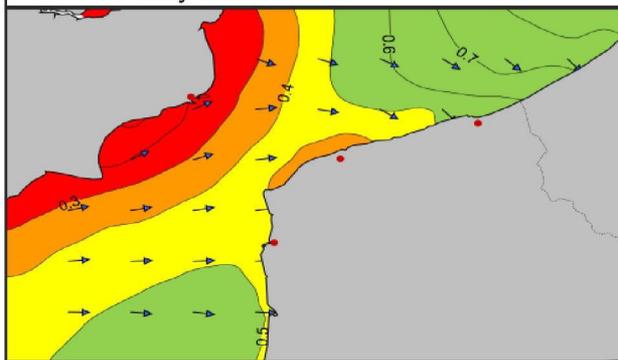
Low	High	Low	High
17:51	23:05	06:04	11:15
1.1	7.0	1.2	7.0

Moonrise 15:45    Sunset 16:03    Moonset 078:17    Sunrise 07:18

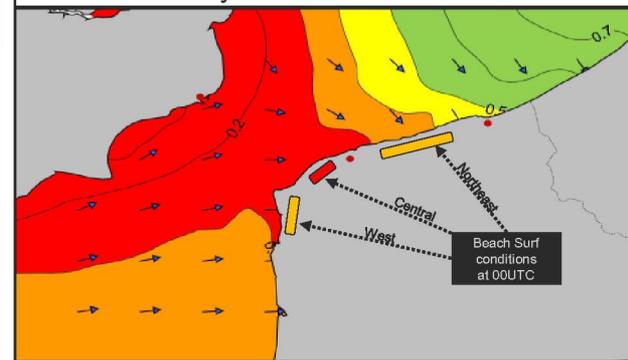
12UTC Friday 19 November



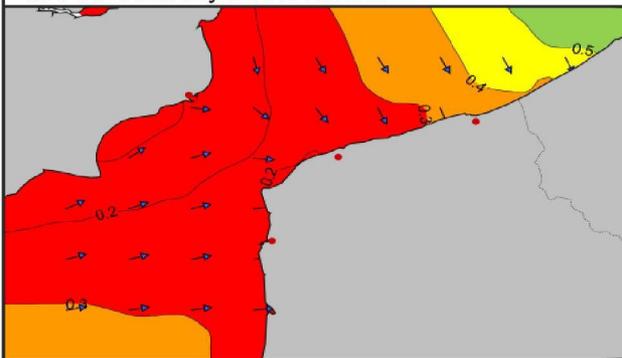
18UTC Friday 19 November



00UTC Saturday 20 November



06UTC Saturday 20 November



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

A lull in the wind and waves is likely overnight Friday into Saturday, there is some uncertainty in how low the significant wave highest will reduce with the Met Office model pictures at the lower end of the plausible scenarios with 0.2M and Windy.com showing the higher end with 0.4M. The likelihood of crossings has been assessed as highly likely due to this crossing window being consistently highlighted across opensource forecasts and recent increased risk taking in higher wave heights.

It is likely to be a largely clear night however there is a realistic possibility that fog may develop over land areas through the night.

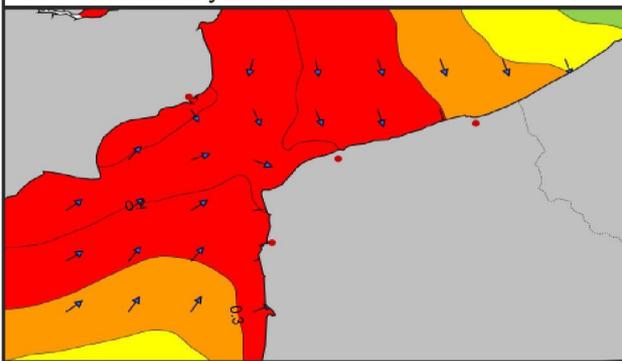
Minimum Channel feels like temperature 10C

**Calais Tides (UTC):**

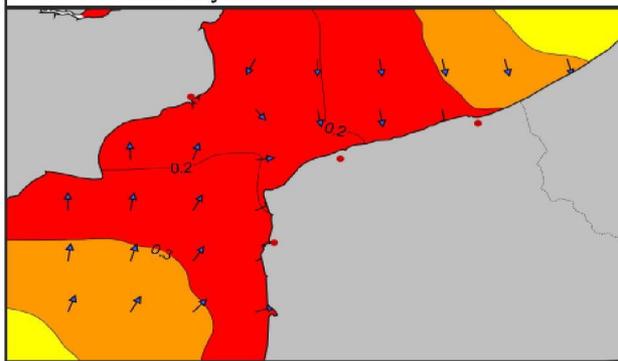
Low	High	Low	High
18:24	23:39	06:36	11:48
1.1	7.1	1.2	7.0

Sunset 16:02   Moonrise 16:05   Sunrise 07:20   Moonset 08:27

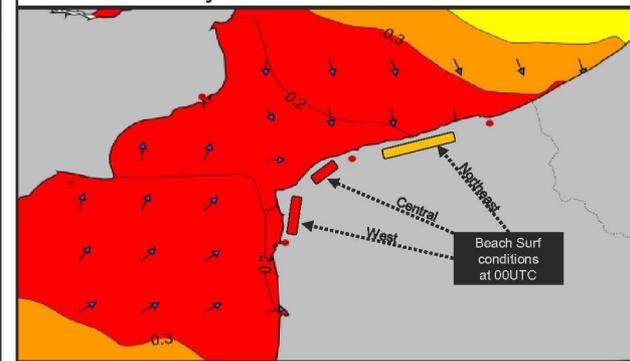
12UTC Saturday 20 November



18UTC Saturday 20 November



00UTC Sunday 21 November



**Crossing likelihood (22 to 06UTC only): Realistic Possibility (Low Confidence)**

Due to a large spread in forecast scenarios ranging from 0.2M or as less pictured above up to 0.7M on Windy.com, confidence is low in the forecast for Saturday night into Sunday morning. It is likely that at some point between Saturday evening and Sunday lunchtime a moderate to strong northerly wind will bring increased wave heights to the Channel and close the crossing window however timing of this is very uncertain.

Minimum Channel feels like temperature 5C

**Calais Tides (UTC):**

High	Low	High	Low
11:48	18:56	00:10	07:09
7.0	1.2	7.0	1.2

Sunset 16:00   Moonrise 16:31   Sunrise 07:21   Moonset 09:33

**Outlook to Friday 26 November:**

Once the northerly wind develops at the end of the weekend it is likely to continue to bring marginal or unfavourable crossing conditions through much of the week. There is decreased confidence towards to the end of the week when there is a realistic possibility of high pressure temporarily extending over the area and bringing another short window of favourable crossing conditions.

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 Tuesday, 16 November to 06UTC Wednesday, 17 November	5	Marginal	Favourable	Favourable	Likely
22UTC Wednesday, 17 November to 06UTC Thursday, 18 November	5	Marginal	Marginal	Unfavourable	Unlikely
22UTC Thursday, 18 November to 06UTC Friday, 19 November	10	Unfavourable	Marginal	Marginal	Unlikely
22UTC Friday, 19 November to 06UTC Saturday, 20 November	10	Marginal	Favourable	Marginal	Highly Likely
22UTC Saturday, 20 November to 00UTC Sunday, 21 November	5	Favourable	Favourable	Marginal	Realistic Possibility (low confidence)
22UTC Sunday, 21 November to 06UTC Monday, 22 November					Highly Unlikely (moderate confidence)
22UTC Monday, 22 November to 06UTC Tuesday, 23 November					Unlikely (moderate confidence)
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November					Unlikely (moderate confidence)
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November					Realistic Possibility (low confidence)
22UTC Thursday, 25 November to 06UTC Friday, 26 November					Realistic Possibility (low confidence)