

Op DEVERAN Weather Assessment

Valid from 12UTC Wednesday 17 November to 06UTC Saturday, 27 November 2021

Forward look 30 days issued each Wednesday

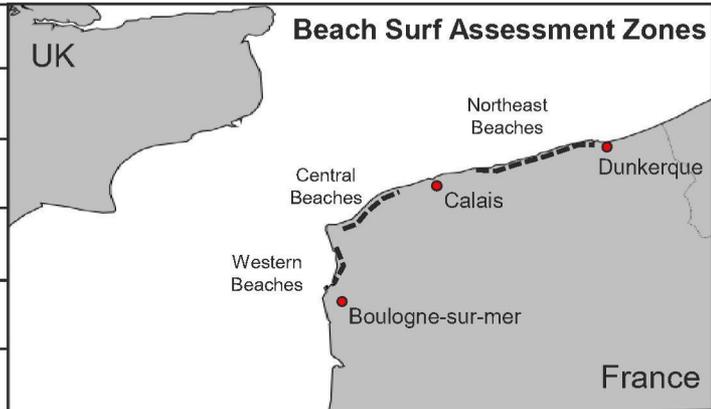
Issued by Met Office NSAG: 1140UTC Wednesday 17 November 2021

Next routine issue: 12UTC Thursday 18 November 2021

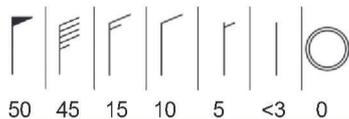
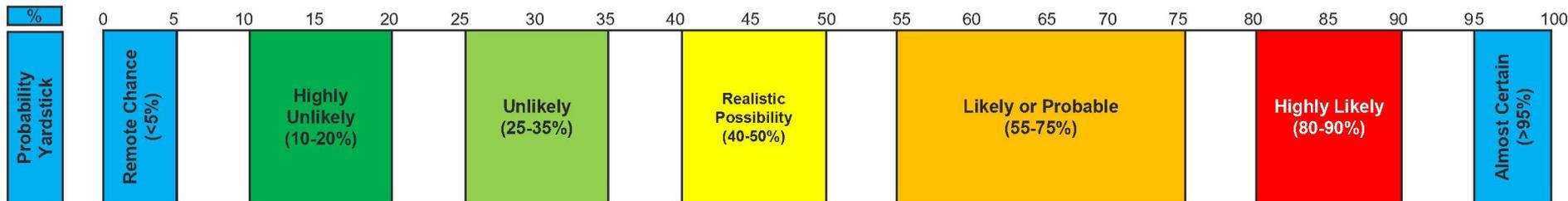
Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Wednesday, 17 November to 06UTC Thursday, 18 November	5	Marginal	Marginal	Unfavourable	Unlikely
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This forecast is not subject to amendment

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



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)

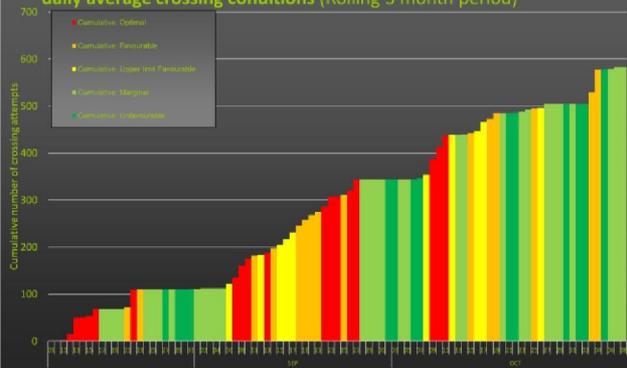
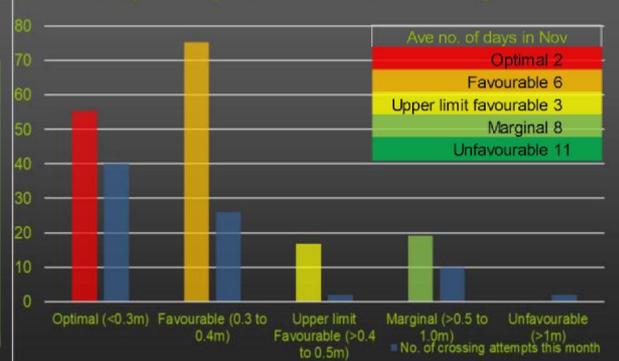


Fig. 2 Predicted Small Boat Crossing Events, November 2021
Based on long term average conditions and the last 3 months crossing rates



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*

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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 been sparse and short.

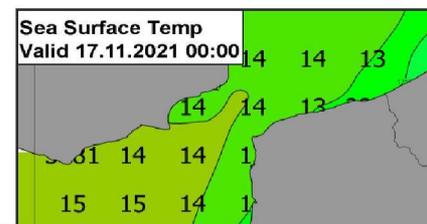
Headlines Days 1-10 (updated 17 Nov):

- Marginal crossing conditions (significant wave heights of 0.5-0.8M) are likely to continue until Friday morning along with a moderate to fresh westerly wind. There is good agreement across opensource forecasts inc Windy.com.
- Through the day on Friday significant wave heights are likely to gradually decrease leading to a window of favourable or optimal crossing conditions from early afternoon Friday.
- The end of this crossing window remains a little uncertain with plausible scenarios bringing marginal crossing conditions (>0.5M) anytime between Saturday evening and Sunday lunchtime. The preferred scenario is for conditions to deteriorate on Sunday morning.
- 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.

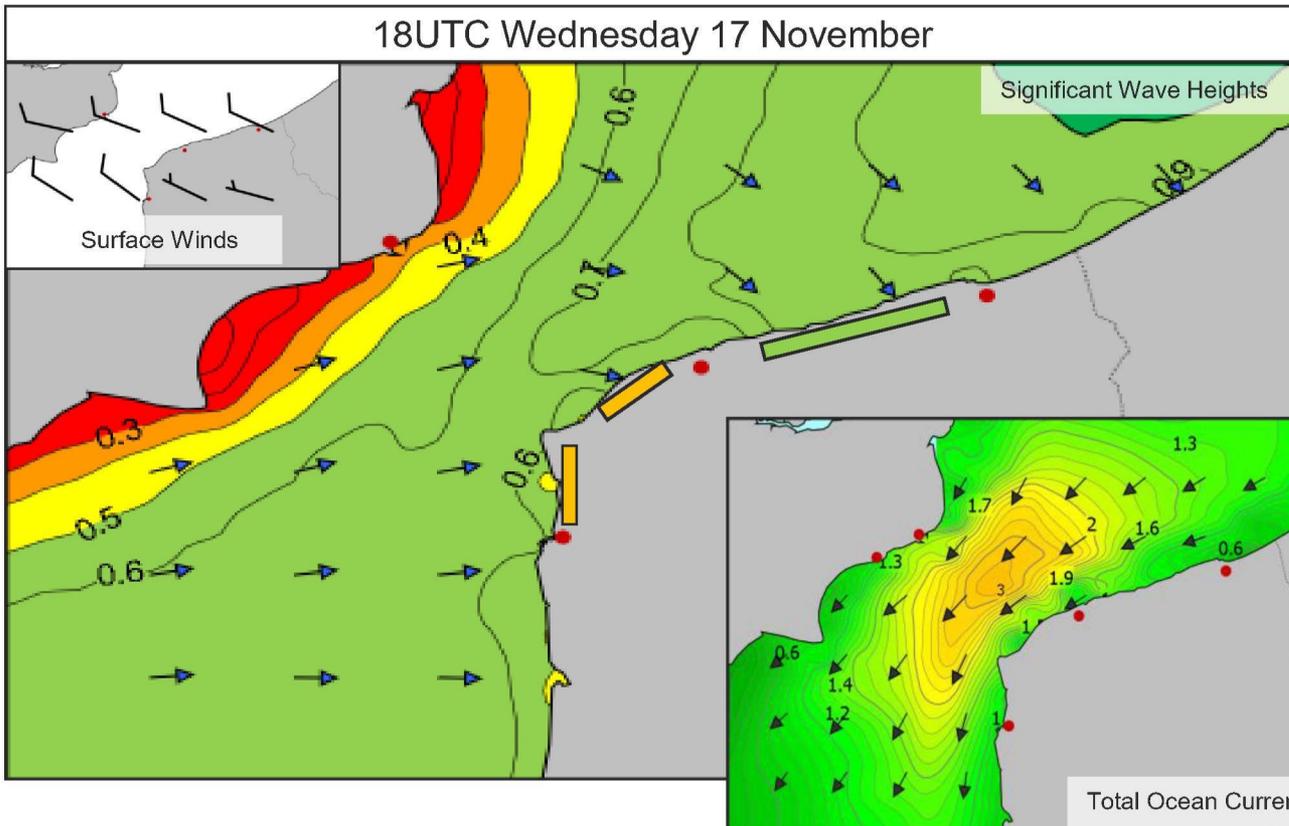
Figures, discussion and 30 day outlook normally updated on Wednesdays

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	17 Nov					18 November					19 November					20 Nov					
Time (UTC)	18	21	00	03	06	18	21	00	03	06	18	00	06								
Cutter	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
CPV (Dover)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
RHIB (Dover)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
UAV (AR5 - Lydd)	Green	Green	Green	Green	Green	Green	Cloud	Cloud	Cloud	Green	Green	Cloud	Cloud								
UAV (AR3 - Dover)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
MCA fixed wing (Doncaster)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
MCA Helicopter (Lydd)	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green								
Solar times (UTC)	Sunset 16:04					Sunrise 07:17					Sunset 16:03					Sunrise 07:18			Sunset 16:02		
Crossing attempt likelihood	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Red	Red					
Lowest feels like air temp (C)	7	6	5	5	5	8	9	10	9	10	11	10	10								
French coast precip' (% chance)	10	30	10	<5	<5	10	10	10	10	10	10	20	30								
Wind Direction	NW	NW	W	W	W	W	W	W	W	W	NW	NW	W								
Wind Speed (KT)	15	12	10	10	8	15	15	12	10	10	5	3-5	3-5								



Crossing likelihood: Unlikely

NSAG Comment

Marginal launching and crossing conditions are highly likely to persist through this afternoon and into the overnight period. Conditions are driven by a light to moderate northwest wind bringing significant wave heights of 0.7-0.8M on the French side of the Channel with the wind and waves onto the French beaches.

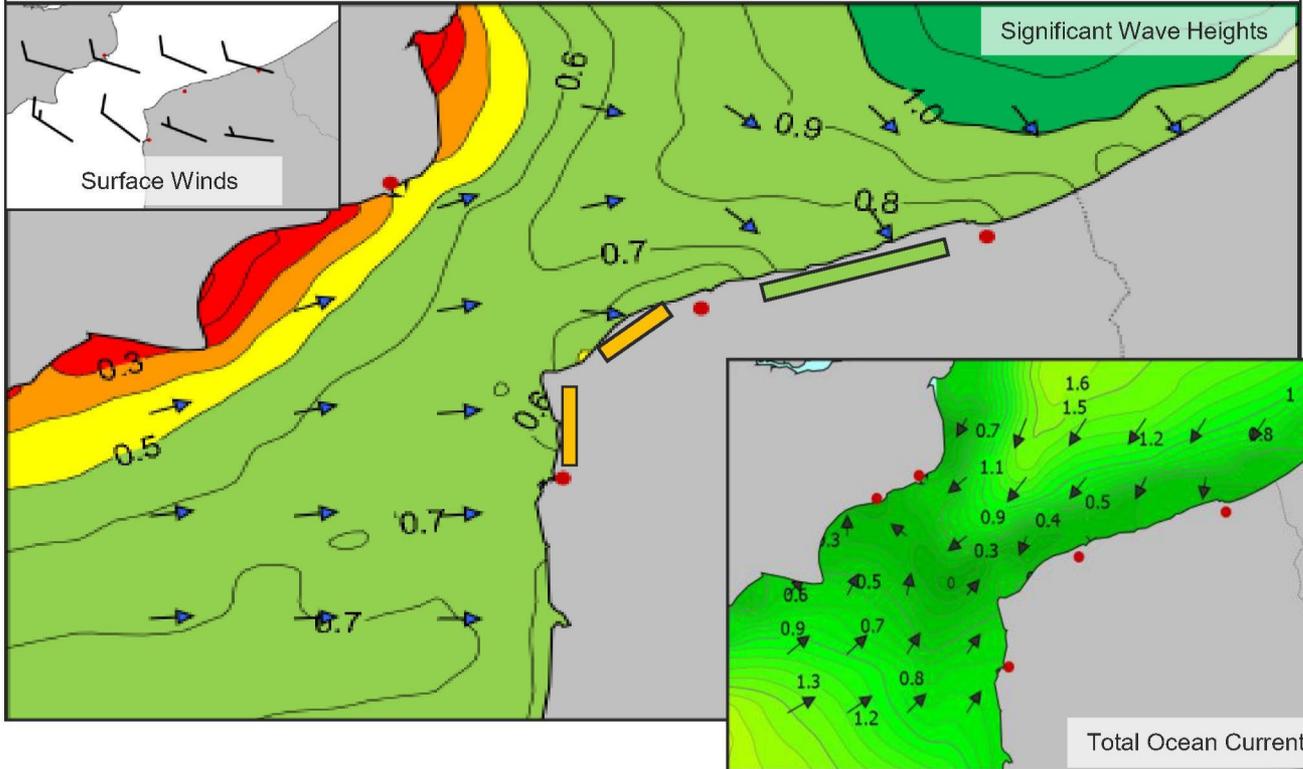
It is likely to be a clearer night than of late with any cloud having high bases and no impact on aerial asset operations.

Windy.com maintains 0.5-0.7M throughout the night.

Calais Tides (UTC):

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

21UTC Wednesday 17 November



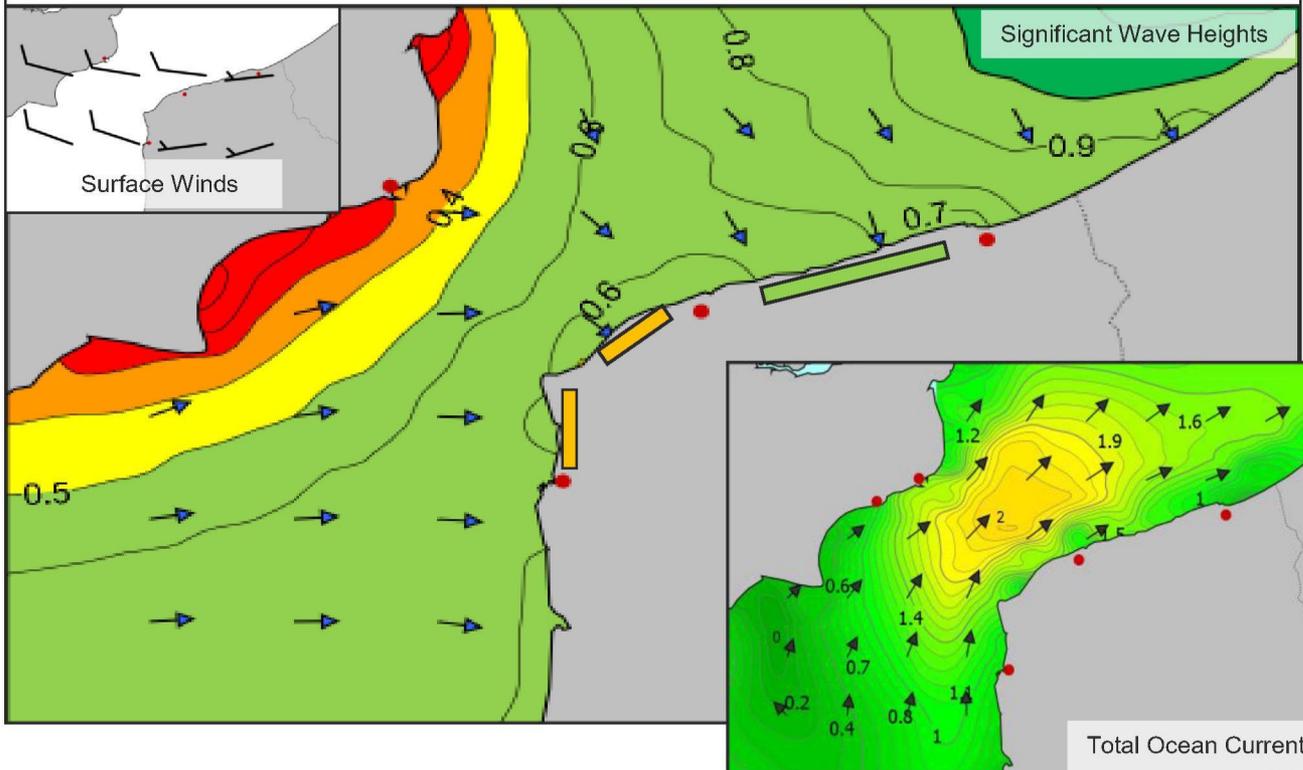
Crossing likelihood: Unlikely

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

00UTC Thursday 18 November



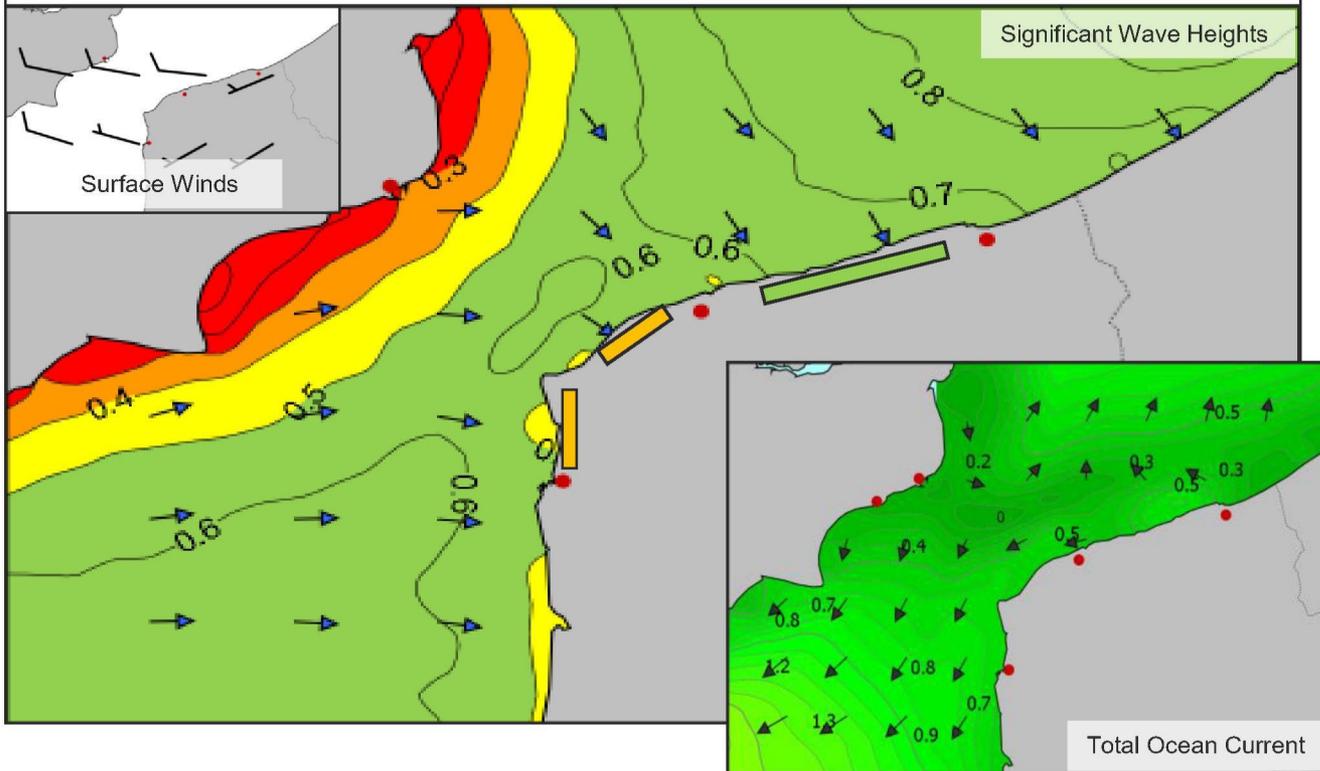
Crossing likelihood: Unlikely

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

03UTC Thursday 18 November



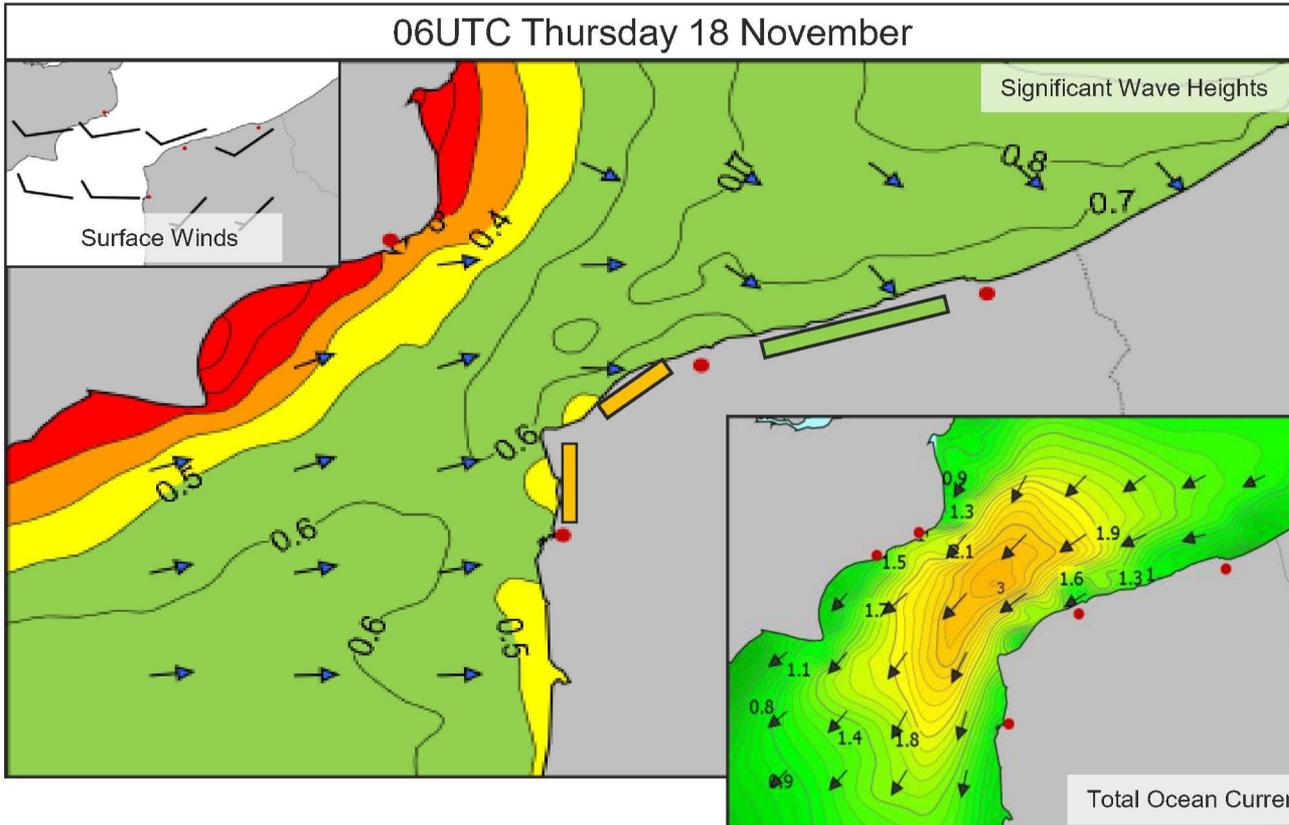
Crossing likelihood: Unlikely

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



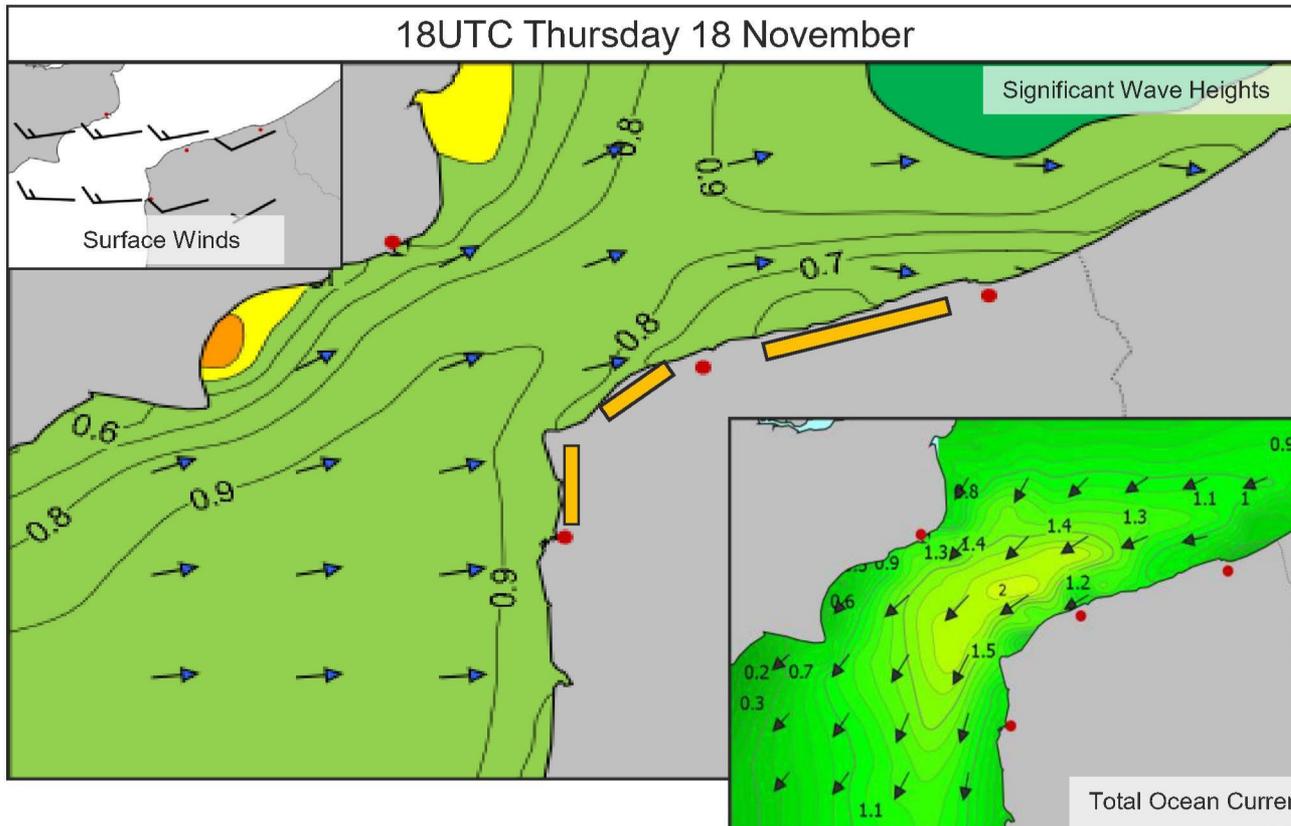
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NSAG Comment

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1.2	7.0	1.3	7.0



Crossing likelihood: Unlikely

NSAG Comment

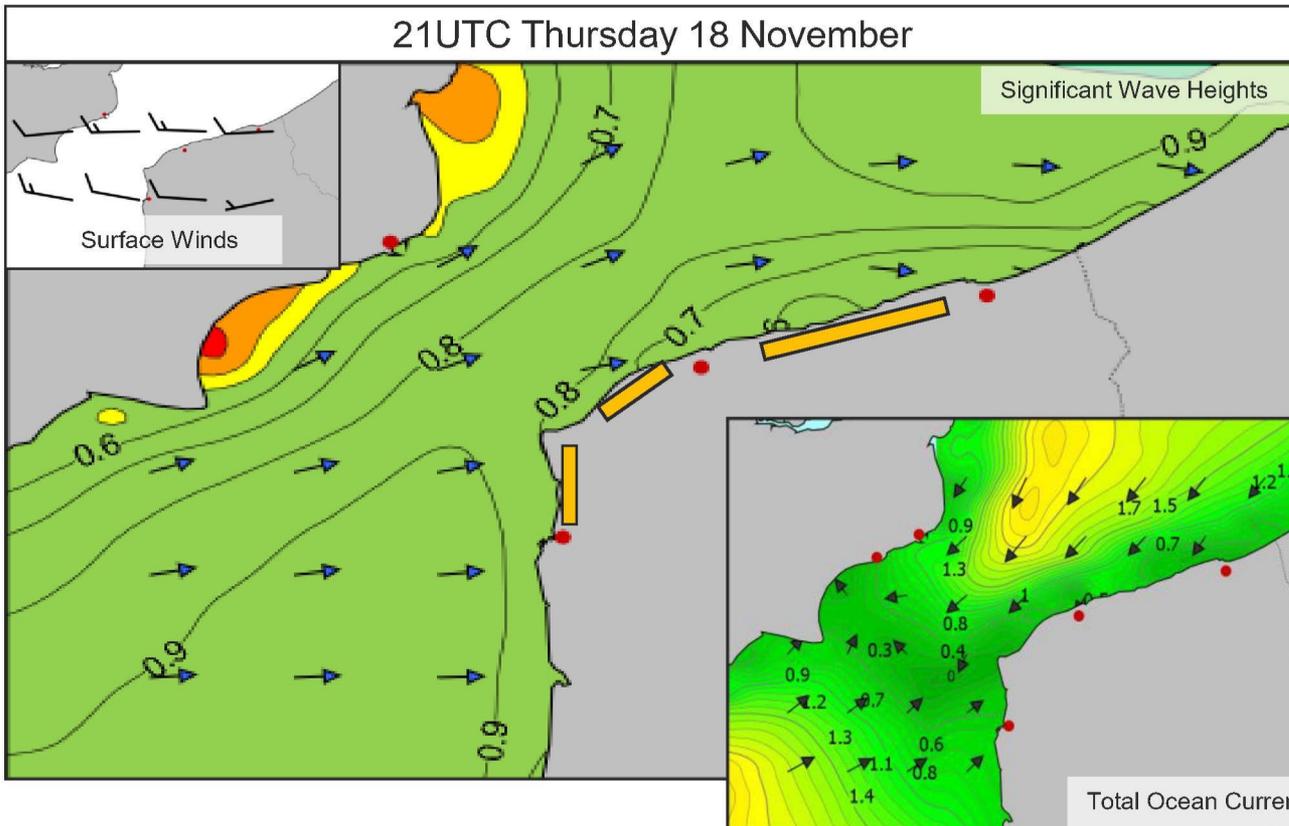
Marginal launching and crossing conditions are highly likely to be maintained through the day and into the evening as a moderate westerly wind drives significant wave heights of 0.7-0.9M through the evening.

A return to cloudy conditions with a small chance of light rain or drizzle is likely through the night but with the cloud bases of around 1600-2000FT overnight, impacts are likely to be limited to the AR5.

Windy.com is showing a very similar forecast through the night.

Calais Tides (UTC):

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



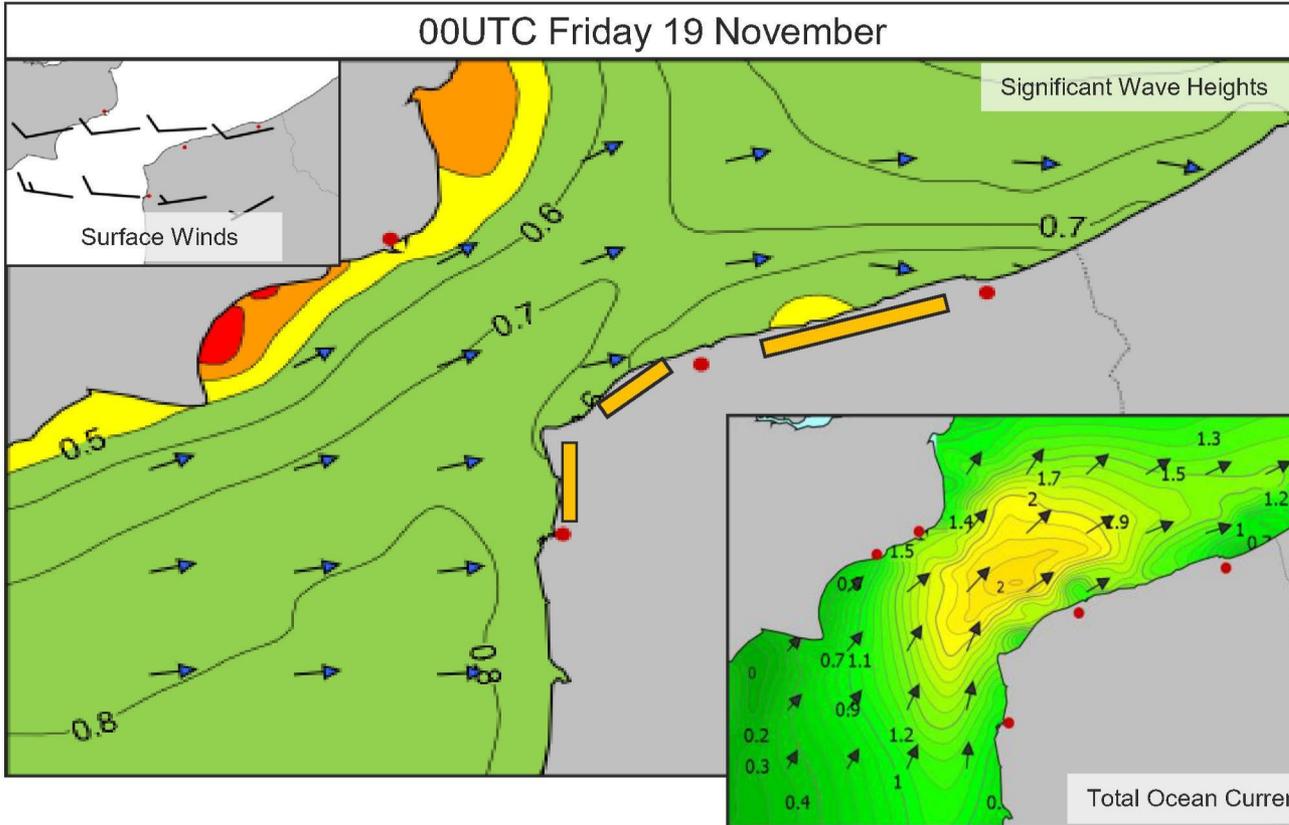
Crossing likelihood: Unlikely

NSAG Comment

Little significant change

Calais Tides (UTC):

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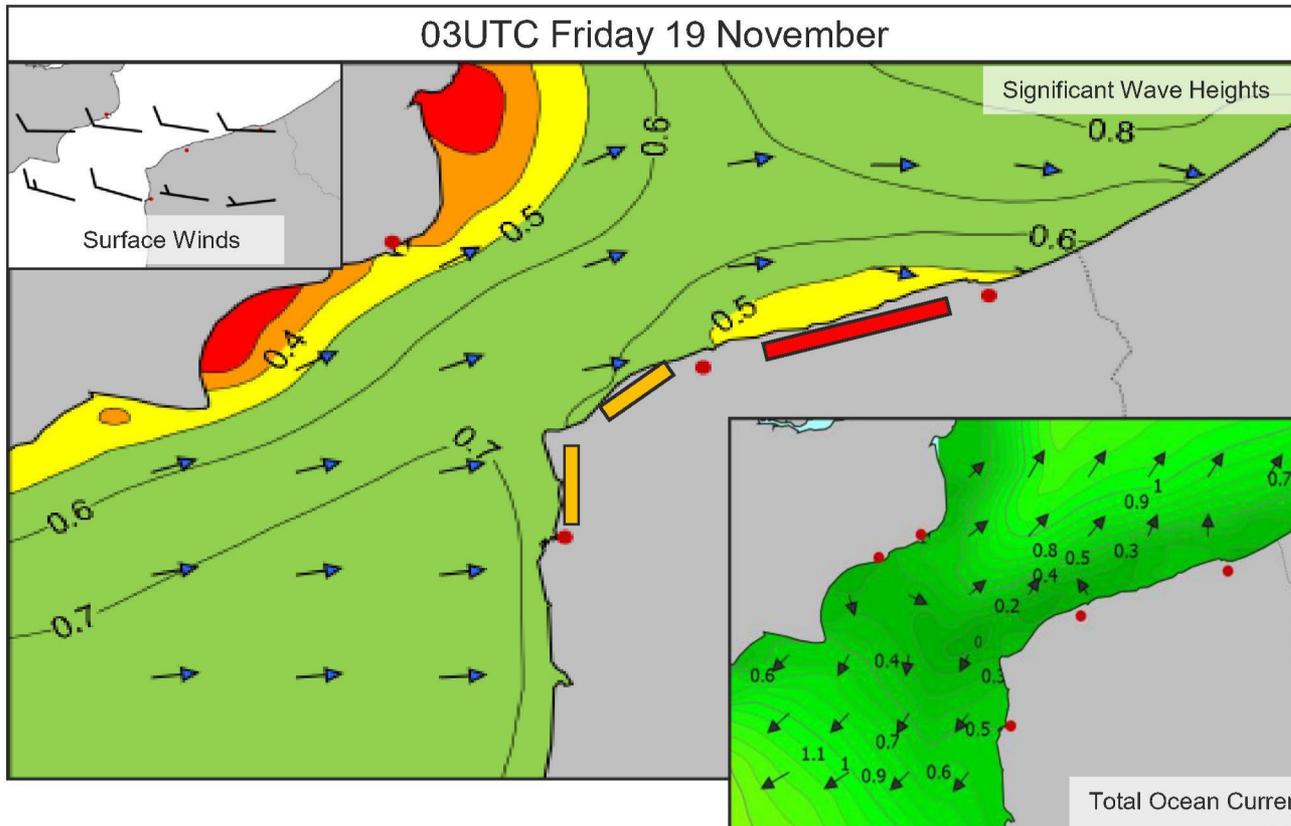
Crossing likelihood: Unlikely

NSAG Comment

Little significant change

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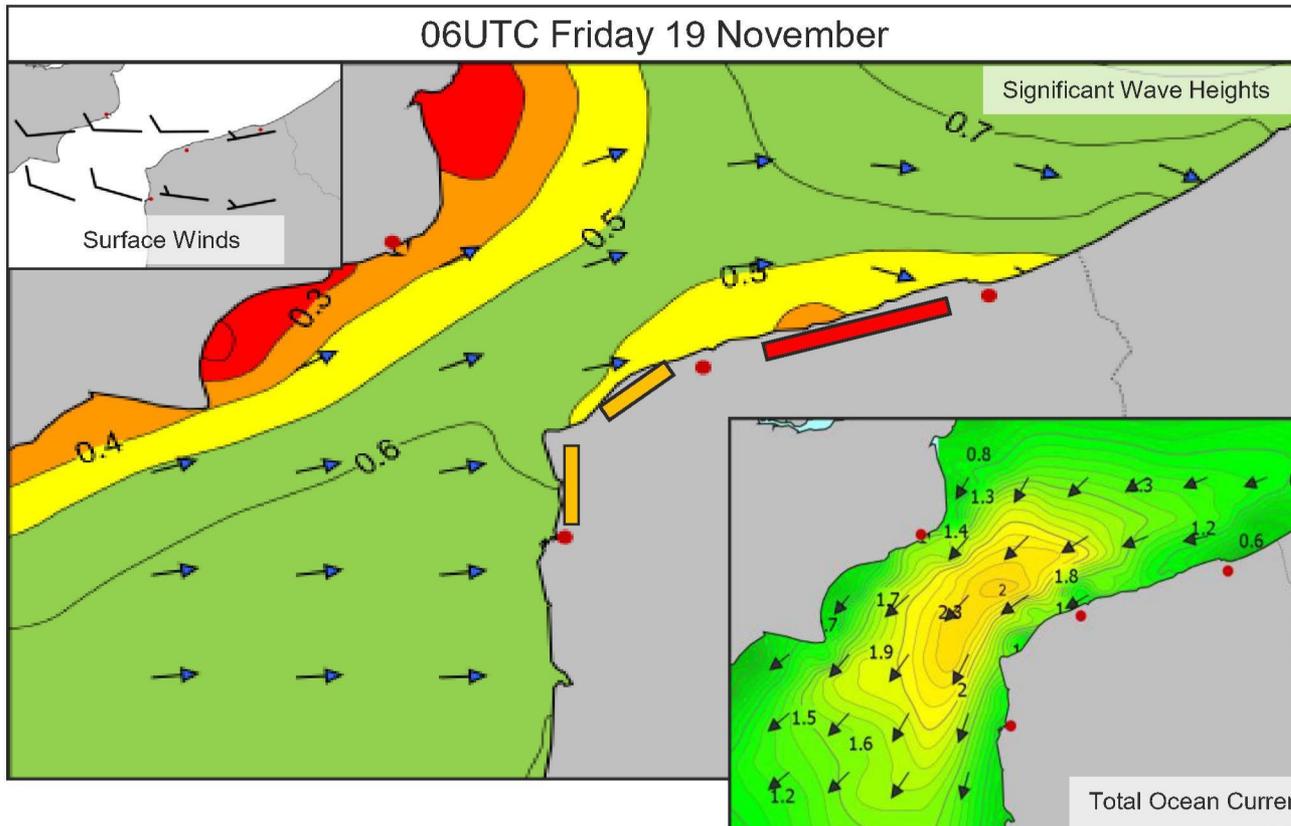


Crossing likelihood: Unlikely

NSAG Comment
The wind is likely to start to ease through the early hours of the morning becoming a light westerly and allowing the significant wave heights in the Channel to gradually reduce. The main reduction is likely to be during the daylight hours. However the reductions is likely to be noticeable on northeast beaches where favourable launch conditions are likely for the last few hours of the night.

Calais Tides (UTC):

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



Crossing likelihood: Realistic Possibility

NSAG Comment

The reduced winds are likely to lead to upper limit favourable crossing conditions from 07:00UTC, along with increasingly favourable conditions along the northeast coast there is a realistic possibility that crossing attempts will start before the end of the night.

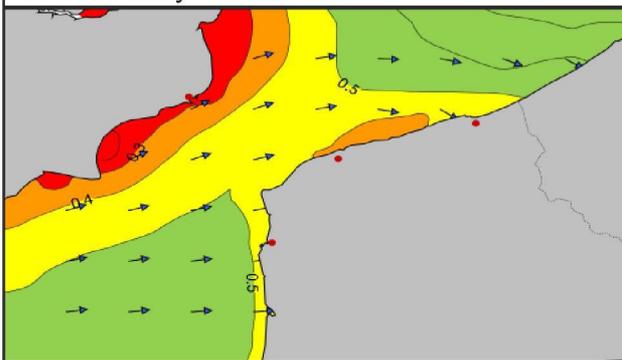
Less than 0.4M significant wave heights are likely to be widespread in the Channel by 15:00UTC, with less than 0.3M following soon after.

Windy.com is showing a similar forecast.

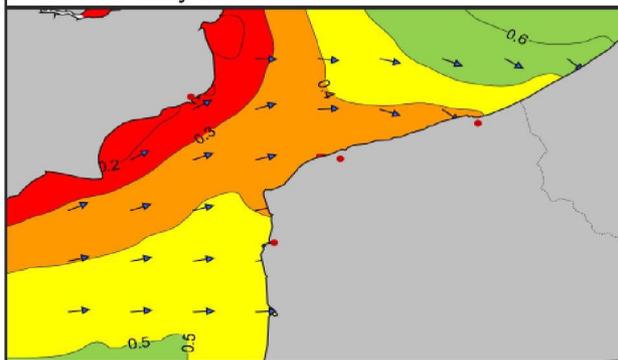
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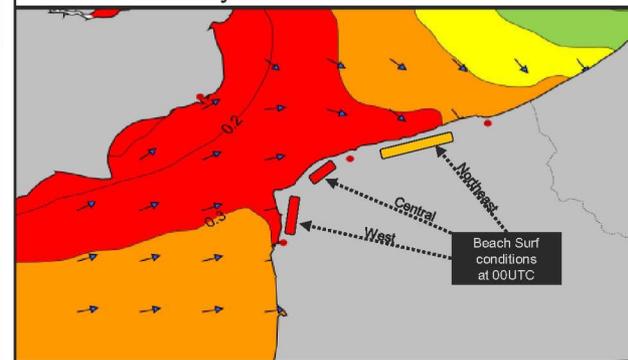
12UTC Friday 19 November



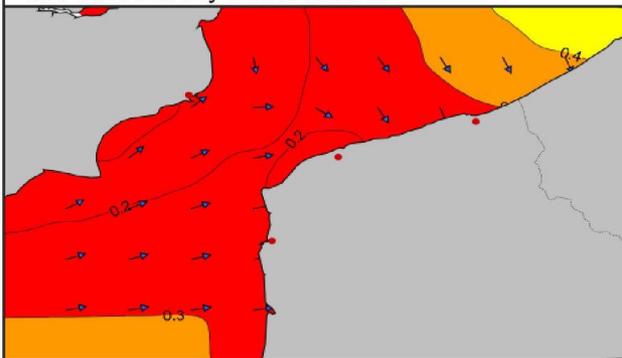
18UTC Friday 19 November



00UTC Saturday 20 November



06UTC Saturday 20 November



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

Light winds are likely to allow the significant wave heights to gradually reduce over the course of the night with a window of favourable or optimal conditions likely from 15:00 UTC on Friday through the day on Saturday. Windy.com is showing a similar forecast up to Saturday lunchtime.

Extensive cloud and patchy rain or drizzle are likely to continue into Saturday, bringing a realistic possibility of impacts to AR5 operations.

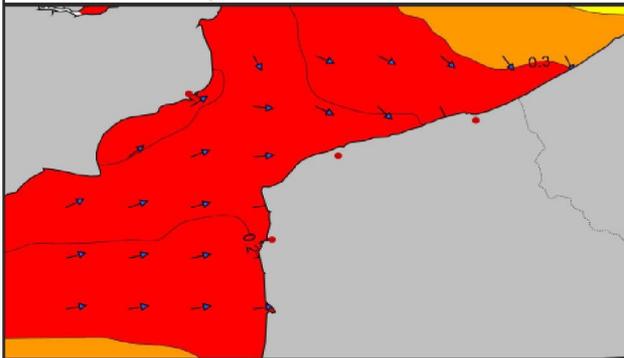
Minimum Channel feels like temperature 10C

Calais Tides (UTC):

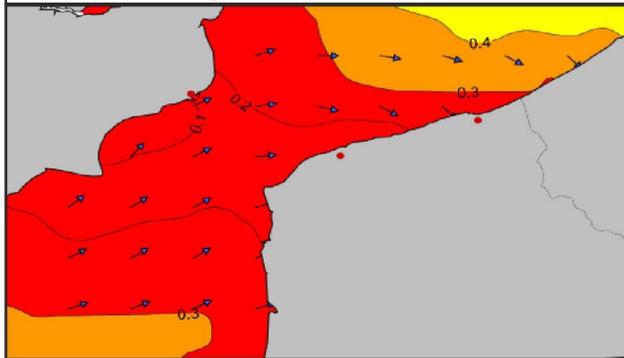
Low	High	Low	High
18:24	23:39	06:36	11:48
1.1	7.1	1.2	7.0

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

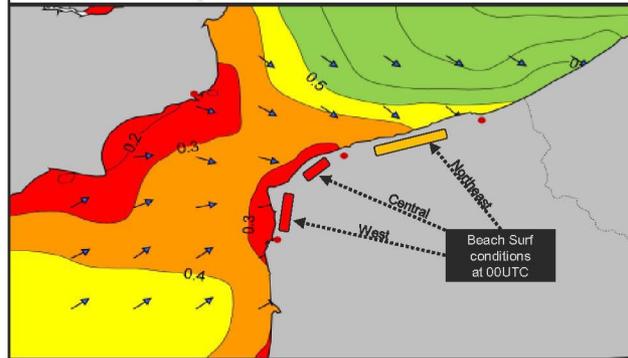
12UTC Saturday 20 November



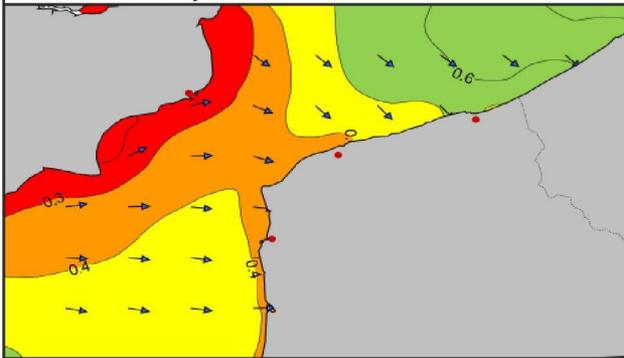
18UTC Saturday 20 November



00UTC Sunday 21 November



06UTC Sunday 21 November



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

Optimal conditions are likely to persist into the early afternoon with wave heights very gradually increasing overnight. There is some uncertainty relating to the end of the crossing window with the main model feeding Windy.com bringing marginal (0.5-0.7M) conditions overnight before upper limit favourable (0.4M) conditions temporarily return during the morning on Sunday.

Bands of rain and low cloud are likely to bring difficult aviation conditions at times overnight until it clears through during Sunday morning.

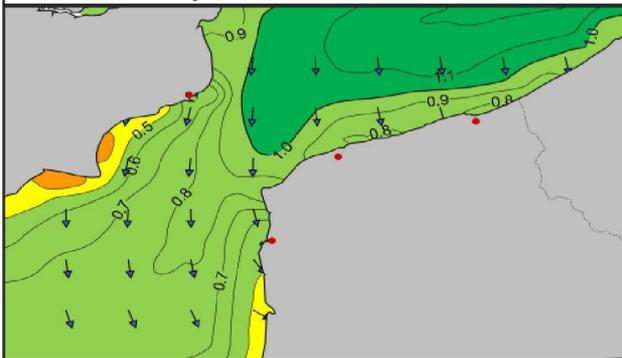
Minimum Channel feels like temperature 6C

Calais Tides (UTC):

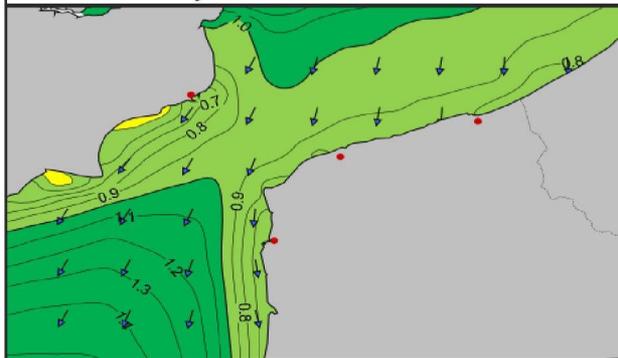
Low	High	Low	High
18:56	00:10	07:09	12:20
1.2	7.0	1.2	7.0

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

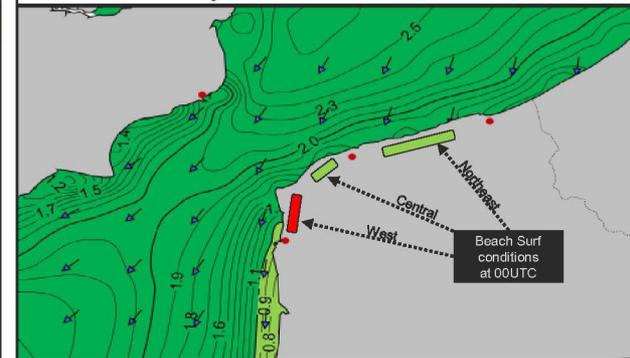
12UTC Sunday 21 November



18UTC Sunday 21 November



00UTC Monday 22 November



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

During Sunday morning (exact timing is currently difficult) the rain and cloud are likely to clear to the south and behind them a strong northerly wind is likely to develop. This is likely to lead to rapidly increasing significant wave heights in the Channel. Leading to unfavourable crossing conditions quickly developing through the afternoon. Windy.com is forecasting 1-2M significant wave heights through the night.

Minimum Channel feels like temperature 3C

Sunset 15:59 Moonrise 17:48 Sunrise 07:23 Moonset 10:33

Calais Tides (UTC):

High	Low	High	Low
12:20	19:28	00:41	07:40
7.0	1.3	7.0	1.3

Outlook to Saturday 27 November:

Once the northerly wind has developed on Sunday it is likely to remain through the outlook period bringing marginal or unfavourable crossing conditions and cold weather to the Channel. There is a small risk of the wind becoming more easterly for a short period late in the week bringing a short window of more favourable conditions but there is a very large degree of uncertainty relating to this and it is currently not the preferred scenario.

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