

Op DEVERAN Weather Assessment

Valid from 12UTC Friday 19 November to 06UTC Monday, 29 November 2021

Forward look 30 days issued each Wednesday

Issued by Met Office NSAG: 12UTC Friday 19 November 2021

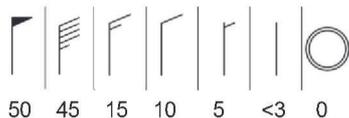
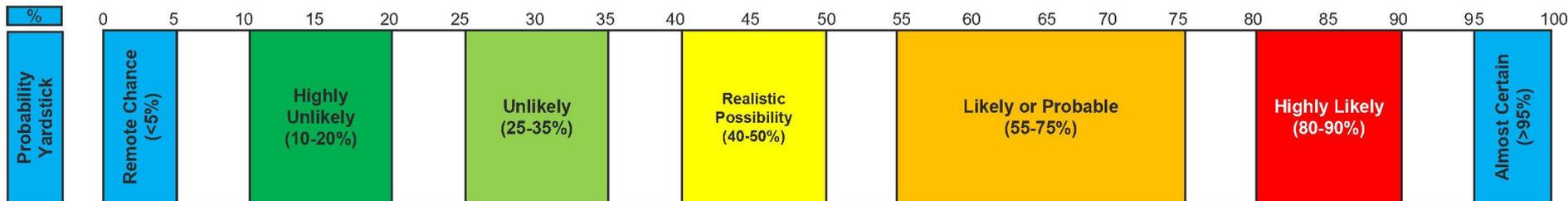
Next routine issue: 12UTC Monday 22 November 2021

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 Friday, 19 November to 06UTC Saturday, 20 November	10	Favourable	Favourable	Marginal	Highly Likely
22UTC Saturday, 20 November to 06UTC Sunday, 21 November	5	Favourable	Favourable	Marginal	Likely
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22UTC Friday, 26 November to 06UTC Saturday, 27 November					Unlikely
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This forecast is not subject to amendment

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

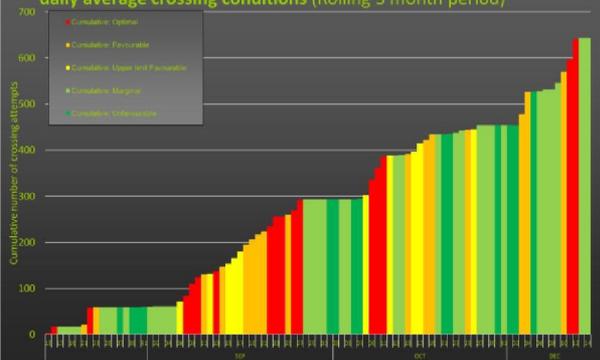
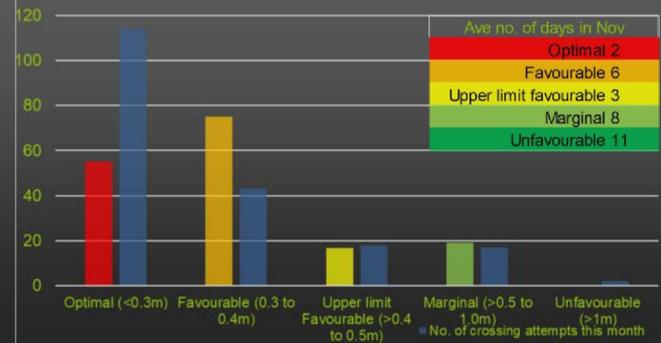


Fig. 2 Predicted Small Boat Crossing Events, November 2021

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	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*

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22UTC Saturday, 27 November to 06UTC Sunday, 28 November					Unlikely
22UTC Sunday, 28 November to 06UTC Monday, 29 November					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.

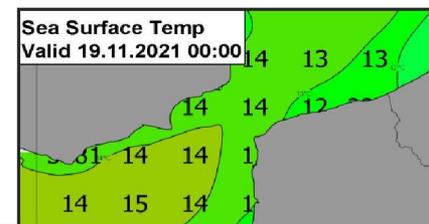
Headlines Days 1-10 (updated 19 Nov):

- Through today significant wave heights are highly likely to gradually decrease leading to a window of favourable or optimal crossing conditions from early afternoon until early Sunday morning.
- The crossing window is likely to end with a strengthening northerly wind bringing marginal crossing conditions (>0.5M) during the early hours of Sunday before conditions rapidly to deteriorate with 1.0M likely by lunchtime Sunday.
- Marginal conditions are likely through much of the outlook period as the northerly wind that becomes strong on Sunday and then persists as a moderate to strong wind.
- It is likely that there will be a temporary lull in conditions Wednesday/Thursday although confidence is moderate to low on the timing and detail of this feature at this timescale.

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.

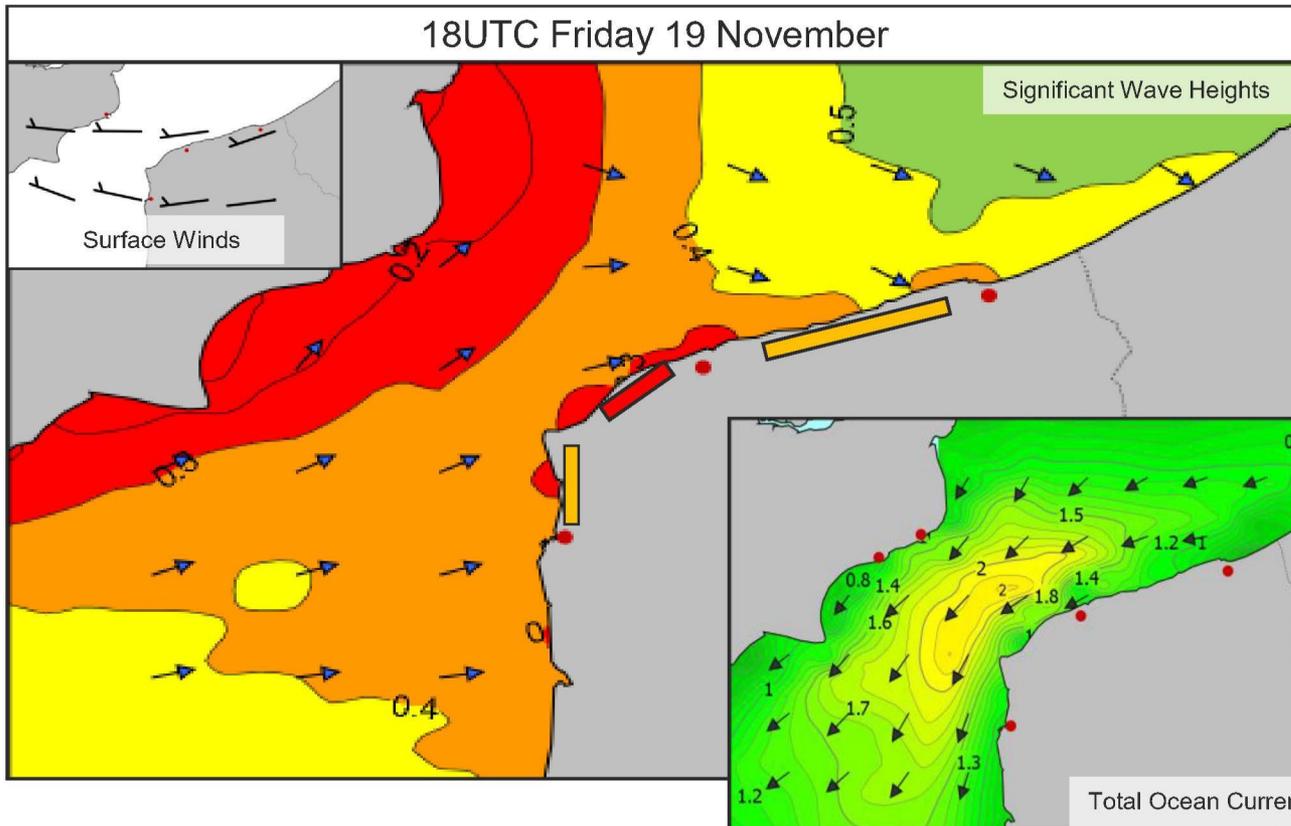
Figures, discussion and 30 day outlook normally updated on Wednesdays

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	19 Nov					20 November					21 November					22 Nov					
Time (UTC)	18	21	00	03	06	18	21	00	03	06	18	00	06								
Cutter																					
CPV (Dover)																					
RHIB (Dover)												2M									
UAV (AR5 - Lydd)	Cloud					Cloud					Rain	Cloud & rain	Wind								
UAV (AR3 - Dover)									Rain				Wind								
MCA fixed wing (Doncaster)									Cloud												
MCA Helicopter (Lydd)																					
Solar times (UTC)	Sunset 16:02					Sunrise 07:20					Sunset 16:00					Sunrise 07:21			Sunset 15:59		
Crossing attempt likelihood																					
Lowest feels like air temp (C)	11	11	11	11	10	9	9	8	6	5	3	3	3								
French coast precip' (% chance)	10	10	10	20	20	20	50	60	70	60	10	10	10								
Wind Direction	W	W	W	W	W	WNW	WNW	WNW	NW	N	N	NE	NE								
Wind Speed (KT)	10	8	3-5	5	8	8	10	15	15	15	28	22	30								



Crossing likelihood: Highly Likely

NSAG Comment

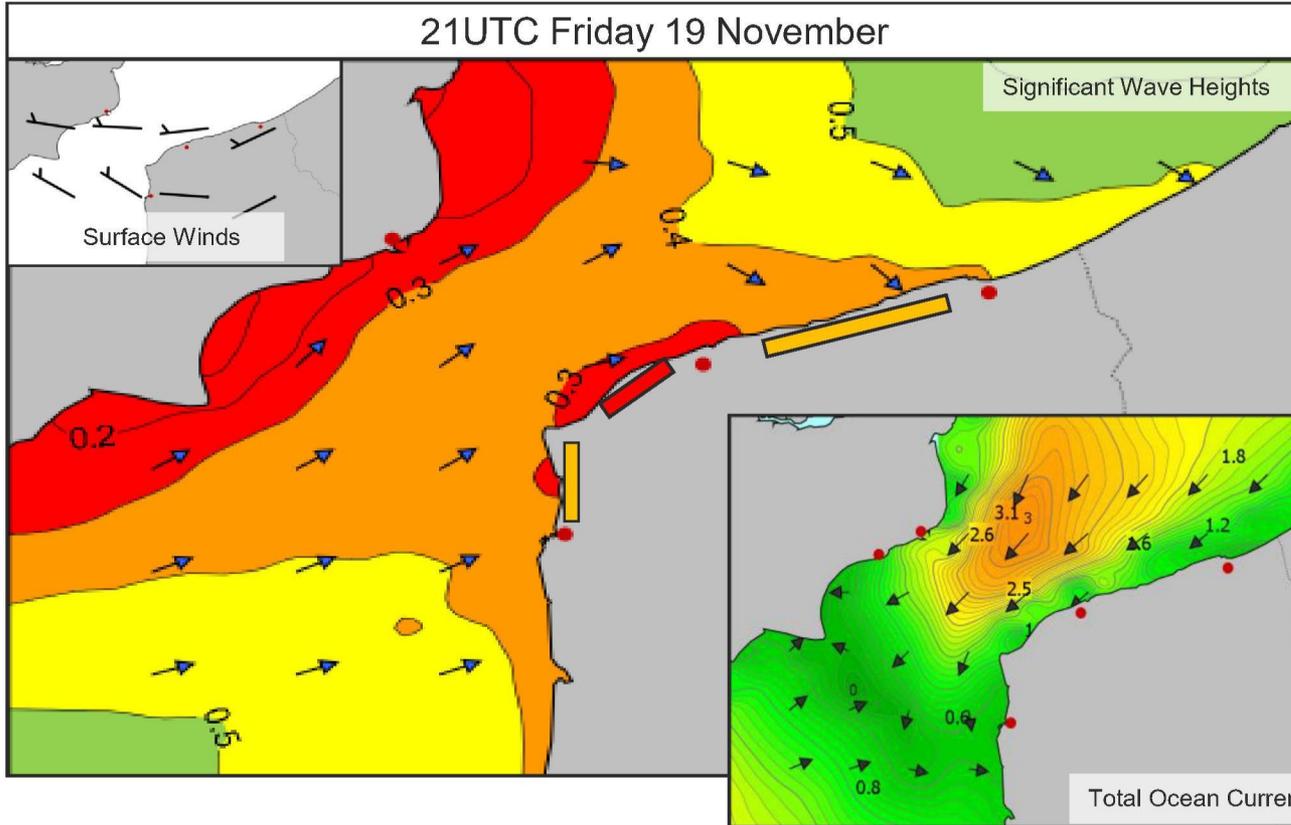
Favourable crossing conditions are highly likely to develop from early afternoon onwards as the wind eases to a light westerly and significant wave heights ease.

It is likely to be a cloudy night with extensive cloud bases around 1500 FT with patches lower than this leading to impacts on AR5 operations. Other aerial assets are likely to have limited impacts through the night.

Windy.com is showing a similar forecast.

Calais Tides (UTC):

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



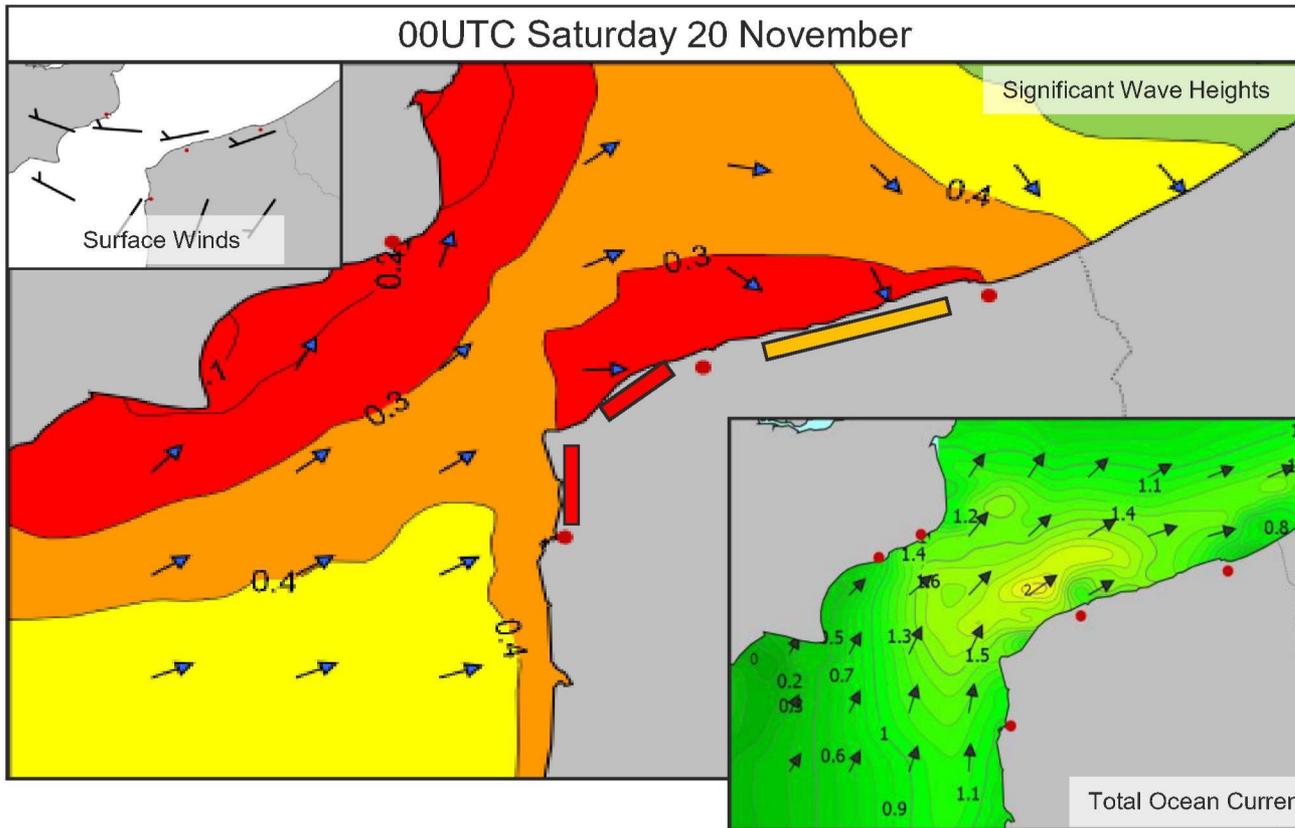
Crossing likelihood: Highly Likely

NSAG Comment

Little significant change

Calais Tides (UTC):

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



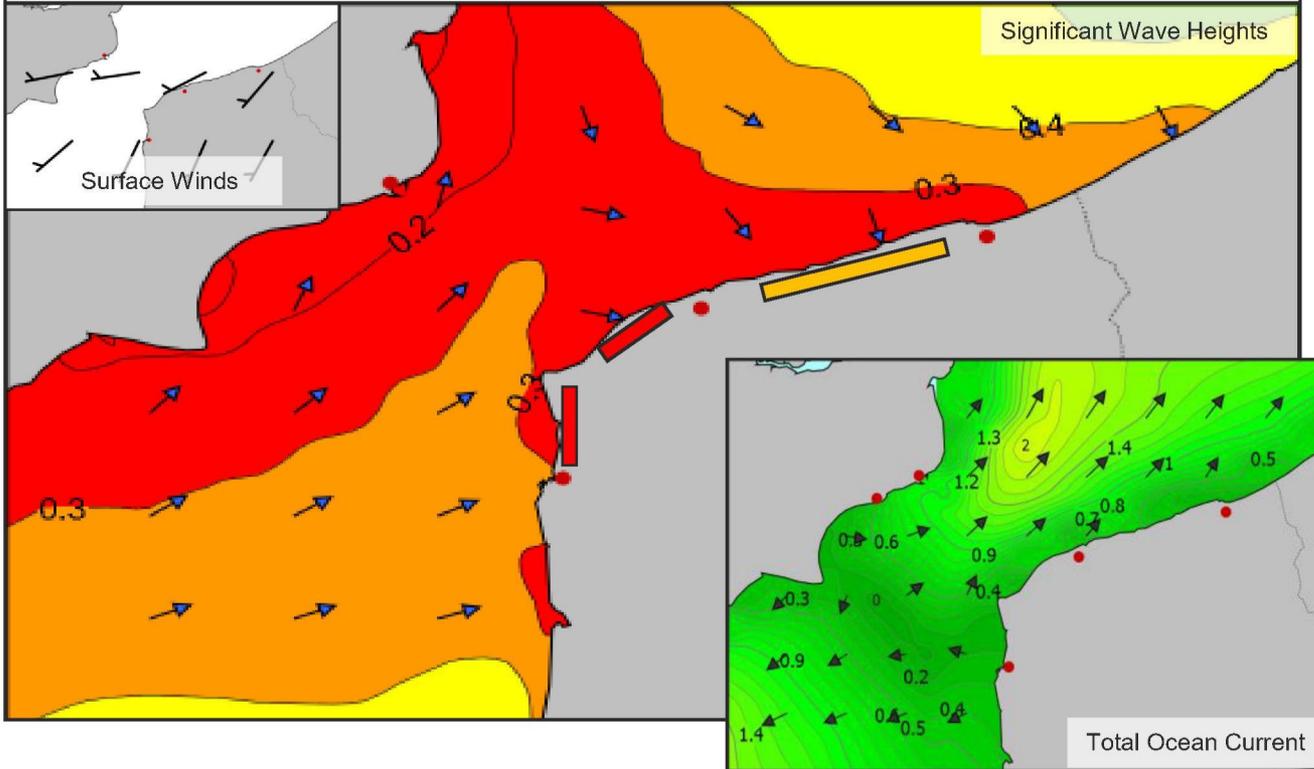
Crossing likelihood: Highly Likely

NSAG Comment
The wind is likely to ease further through the evening and allow optimal conditions to become widespread soon after midnight.

Calais Tides (UTC):

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

03UTC Saturday 20 November



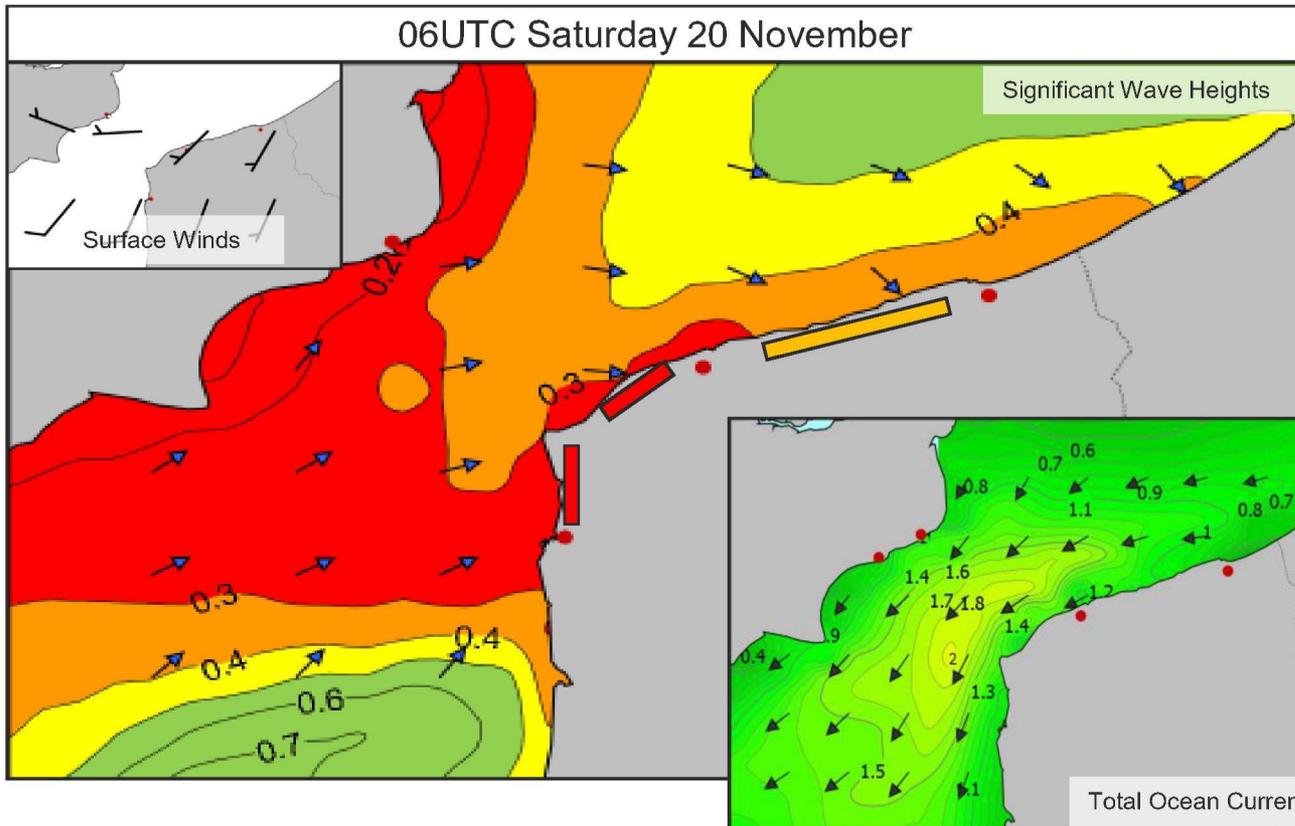
Crossing likelihood: Highly Likely

NSAG Comment

Widespread optimal crossing conditions are likely to be widespread by 0300UTC and then persist through the rest of the night.

Calais Tides (UTC):

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



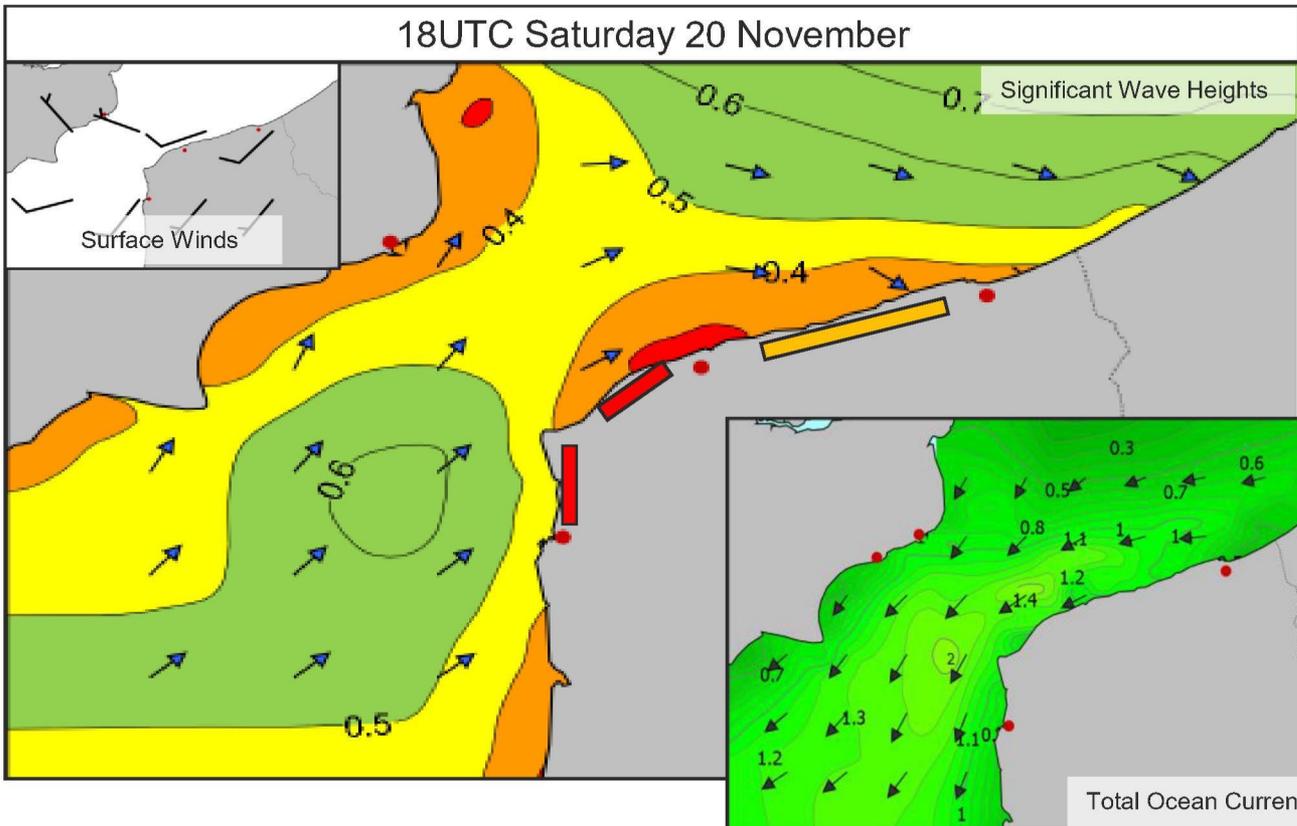
Crossing likelihood: Highly Likely

NSAG Comment

Favourable or optimal crossing conditions are likely to persist through the day with little change to the wind or waves. The cloud bases are likely to gradually lift allowing improving conditions for the AR5, and other aerial assets, through the day.

Calais Tides (UTC):

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



Crossing likelihood: Likely

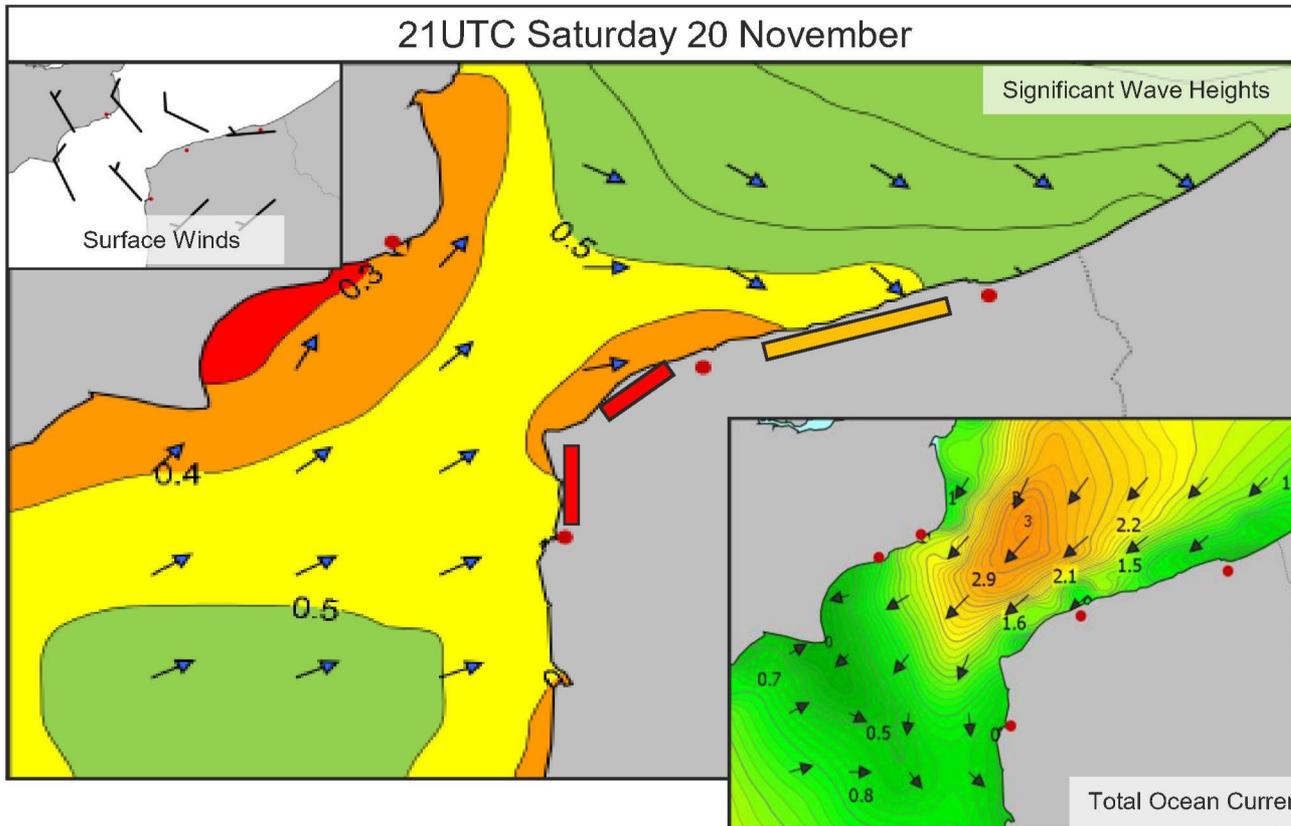
NSAG Comment

Favourable or upper limit favourable conditions are likely to continue into the evening as the wind remains a light westerly through the early evening.

Cloud bases at the start of the night are likely to be higher than the previous night leading to a reduced risk of impacts on AR5 operations.

Calais Tides (UTC):

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



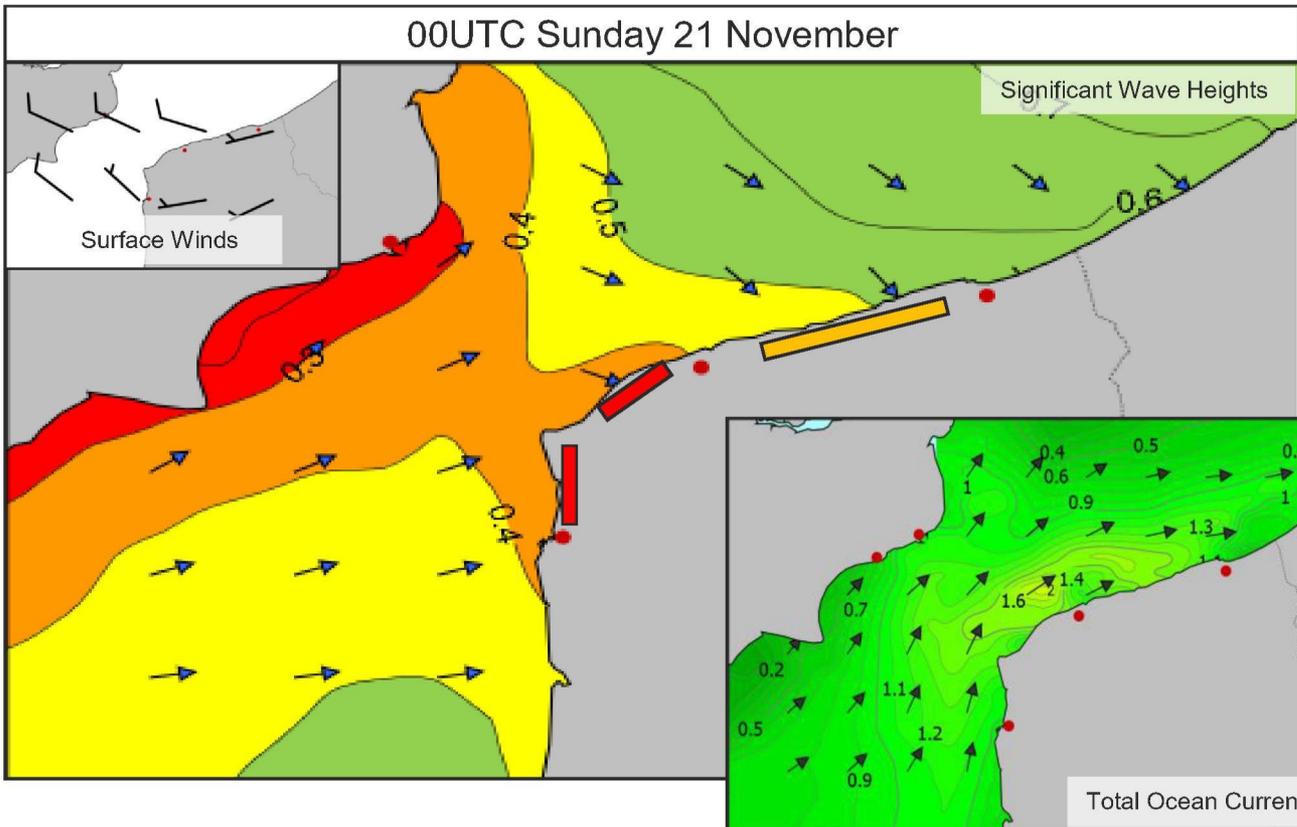
Crossing likelihood: Likely

NSAG Comment
Favourable or upper limit favourable conditions are likely to persist as the wind becomes a light north-westerly but initially has little impact on sea or beach conditions. A head wind for those attempting a crossing is a precursor of poorer conditions to come later in the night.

Windy.com currently shows a forecast of 0.5M significant wave heights for 2100UTC, deteriorating conditions sooner than the Met Office models.

Calais Tides (UTC):

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



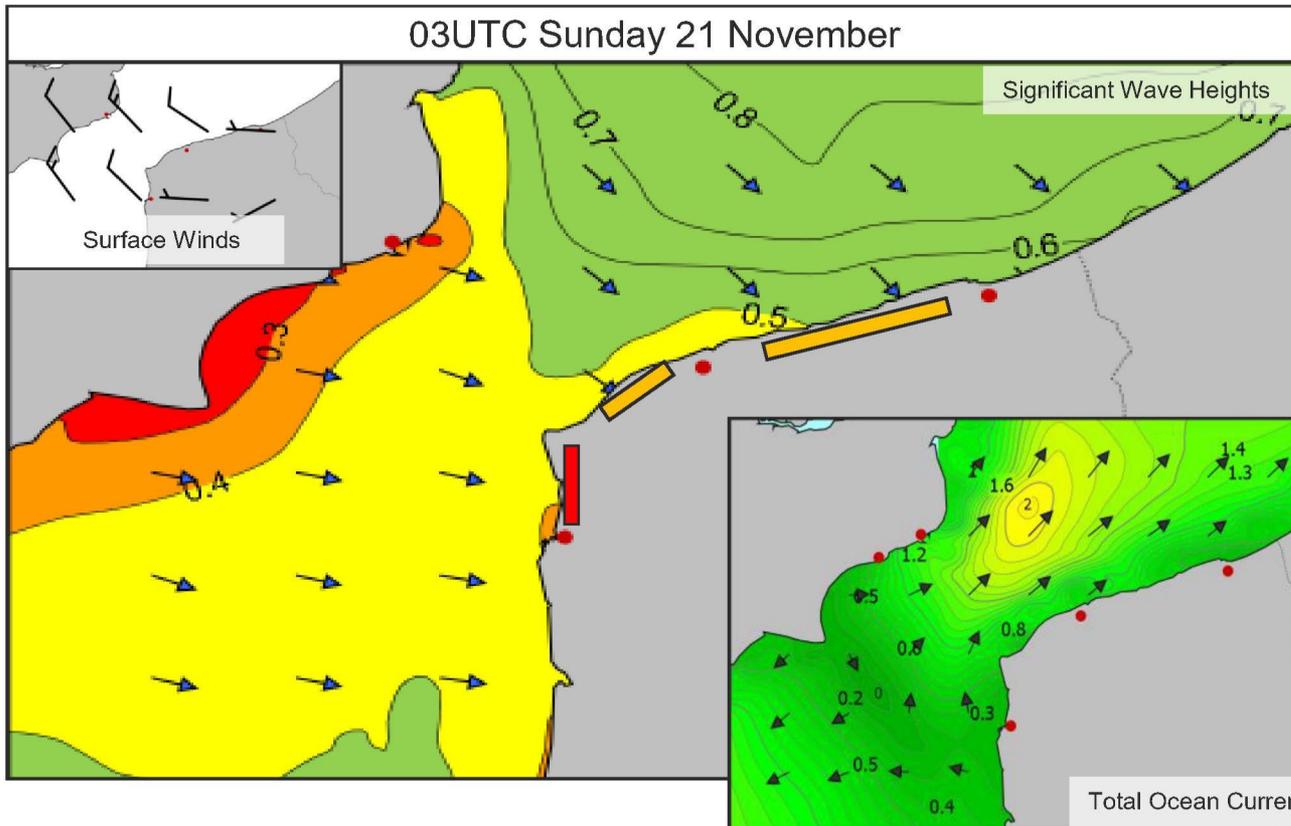
Crossing likelihood: Likely

NSAG Comment

Little significant change

Calais Tides (UTC):

Low	High	Low	High
18:56	00:10	07:09	12:20
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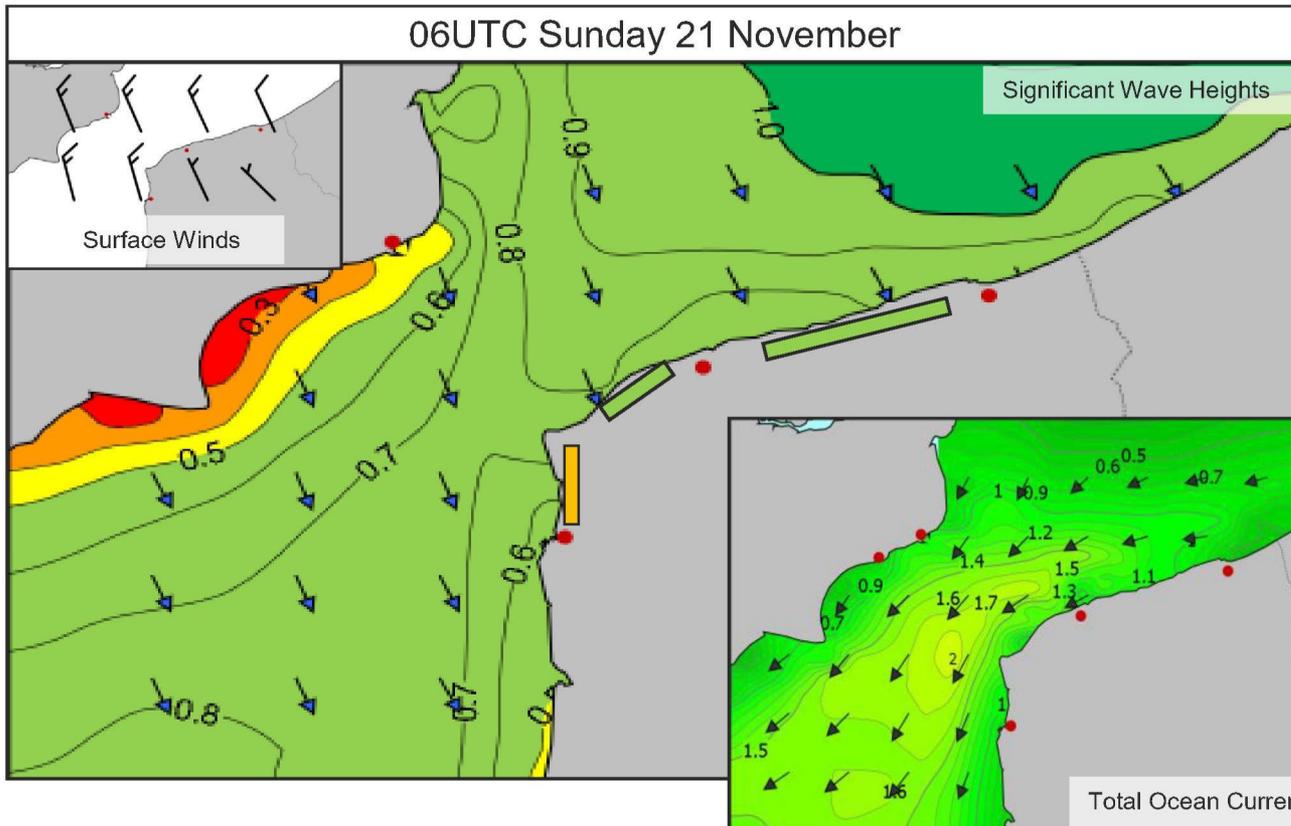
Crossing likelihood: Realistic Possibility

NSAG Comment

By 0300UTC the northwest wind is likely to become a moderate breeze and bring increasing significant wave heights along with rain and temporary reductions in cloud bases. This is the start of a rapid deterioration in conditions in the Channel.

Calais Tides (UTC):

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



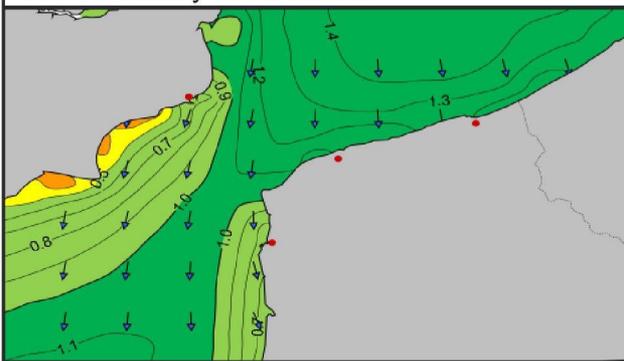
Crossing likelihood: Unlikely

NSAG Comment
Conditions in the Channel are likely to rapidly deteriorate as a strong northerly wind brings cold temperatures and drives a sharp increase in significant wave heights. As the rain clears to south skies are likely to become clear however wind speeds are likely to impact UAV operations.

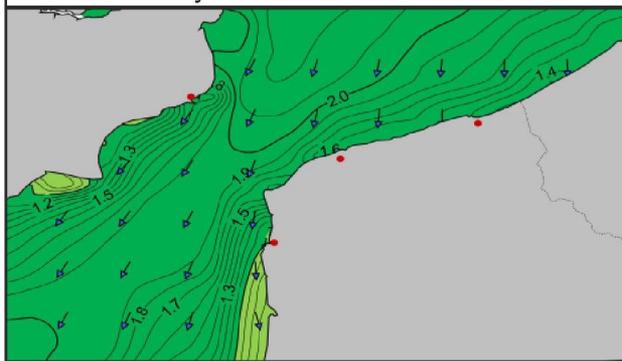
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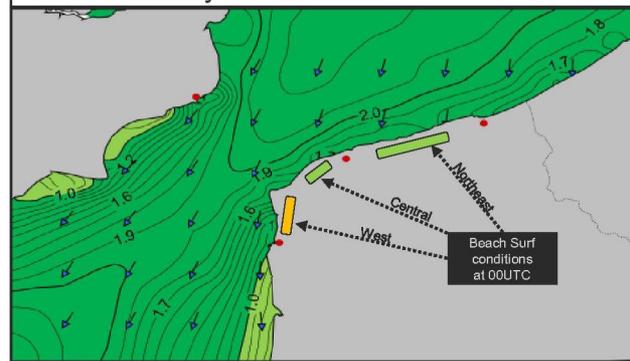
12UTC Sunday 21 November



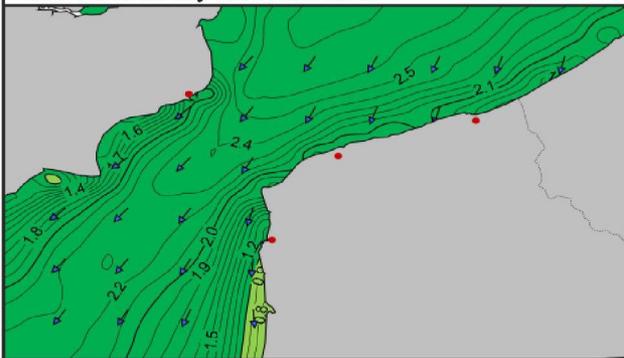
18UTC Sunday 21 November



00UTC Monday 22 November



06UTC Monday 22 November



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

Unfavourable crossing conditions are highly likely as a strong northerly wind drives significant wave heights of around 2.0M through Sunday afternoon and into Monday evening. This is well supported across open source forecasts including Windy.com. The northerly flow is likely to bring cold temperatures and rain showers to the area.

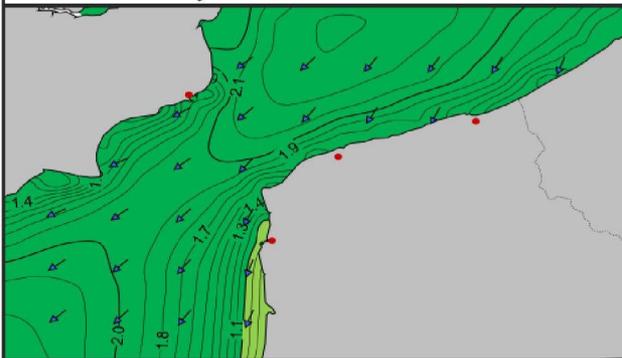
Minimum Channel feels like temperature 3C

Calais Tides (UTC):

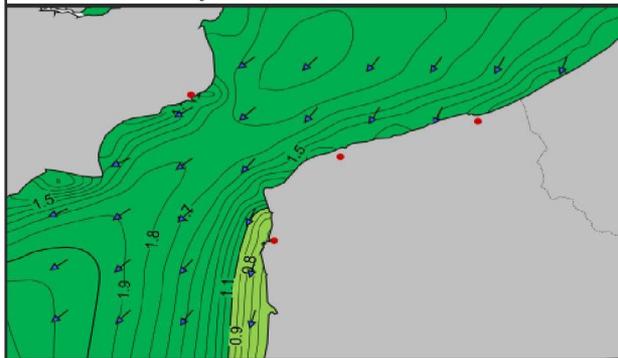
High	Low	High	Low
12:20	19:28	00:41	07:40
7.0	1.3	7.0	1.3

Sunset 15:59 Moonrise 17:04 Sunrise 07:23 Moonset 10:33

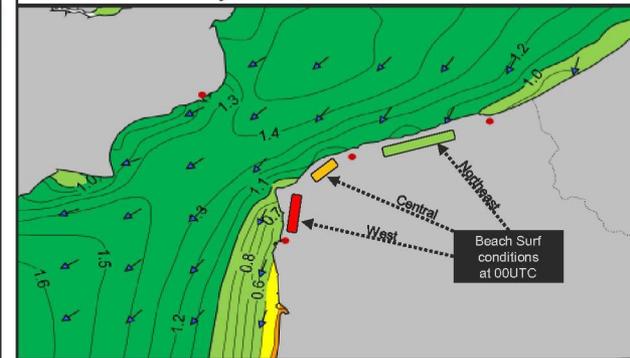
12UTC Monday 22 November



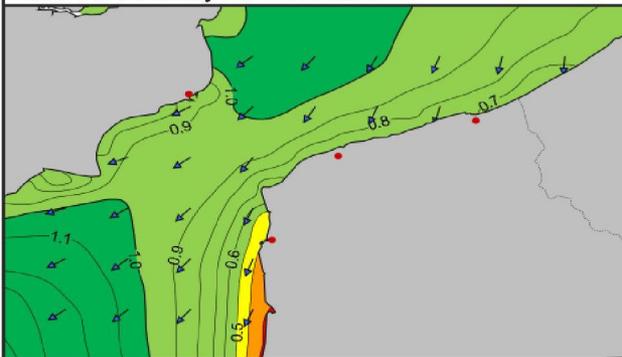
18UTC Monday 22 November



00UTC Tuesday 23 November



06UTC Tuesday 23 November



Crossing likelihood (22 to 06UTC only): Unlikely

The northerly wind is likely to become northeasterly for a time and reduce in strength overnight, this brings a realistic possibility of unfavourable conditions easing to marginal before the end of the night. However, it is likely that significant wave heights in the Channel will remain greater than 0.8M as is shown on Windy.com. The change in wind and wave direction is likely to lead to limited amounts of shelter along the west facing coast however any favourable conditions are unlikely to reach far off shore.

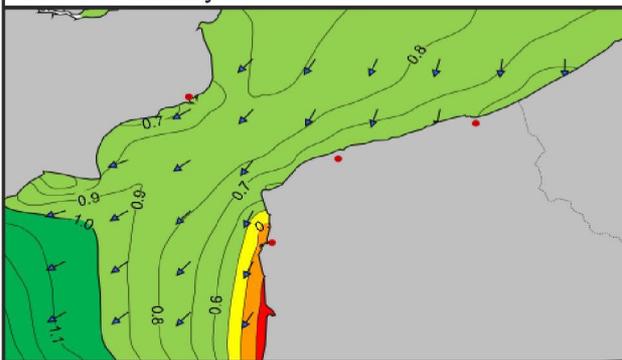
Minimum Channel feels like temperature 0C

Calais Tides (UTC):

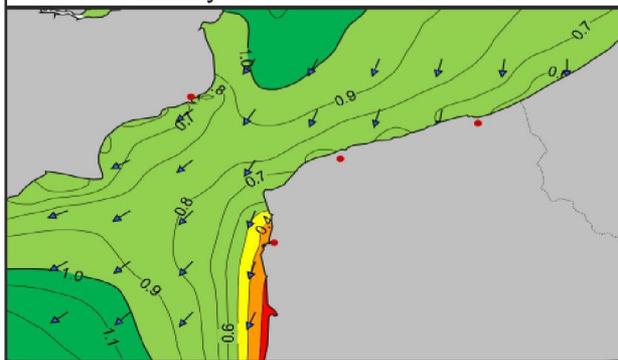
High	Low	High	Low
12:52	19:58	01:13	08:10
6.9	1.4	6.8	1.5

Sunset 15:58 Moonrise 17:48 Sunrise 07:25 Moonset 11:24

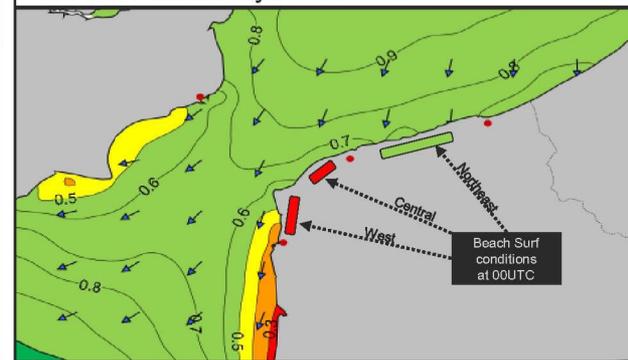
12UTC Tuesday 23 November



18UTC Tuesday 23 November



00UTC Wednesday 24 November



Crossing likelihood (22 to 06UTC): Unlikely

The wind is likely to slowly become a moderate east or northeasterly overnight and allow significant wave heights to ease on Wednesday. There is some uncertainty as to the timing of this easing of conditions but the current preferred scenario is for a period of lower wave heights in the Channel during Wednesday.

Minimum Channel feels like temperature 3C

Sunset 15:57 Moonrise 18:42 Sunrise 07:26 Moonset 12:04

Calais Tides (UTC):

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

Outlook to Monday 29 November:

Marginal or unfavourable crossing conditions are likely to prevail through the outlook period. It is likely that there will be a temporary lull in conditions Wednesday into Thursday and this is currently highlighted on Windy.com (and other open source forecasts) but confidence is moderate to low on the timing and detail of this feature at this timescale.

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