



Border Force



Immigration Enforcement



Op DEVERAN Weather Assessment

Valid from 12UTC Tuesday 23 November to 06UTC Friday, 03 December 2021

Forward look 30 days issued each Wednesday

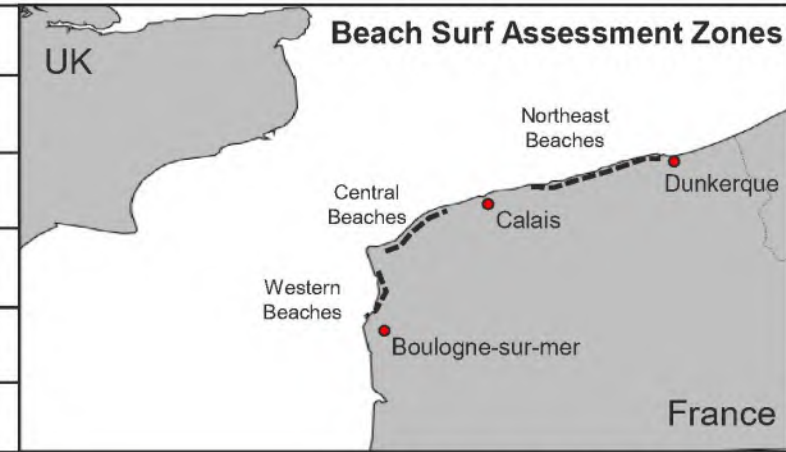
Issued by Met Office NSAG: 1150UTC Tuesday 23 November 2021

Next routine issue: 12UTC Wednesday 24 November 2021

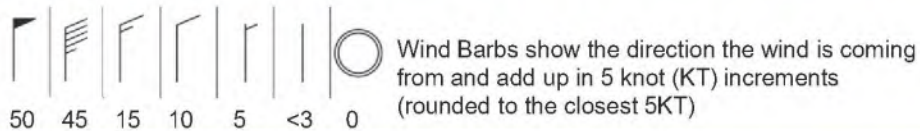
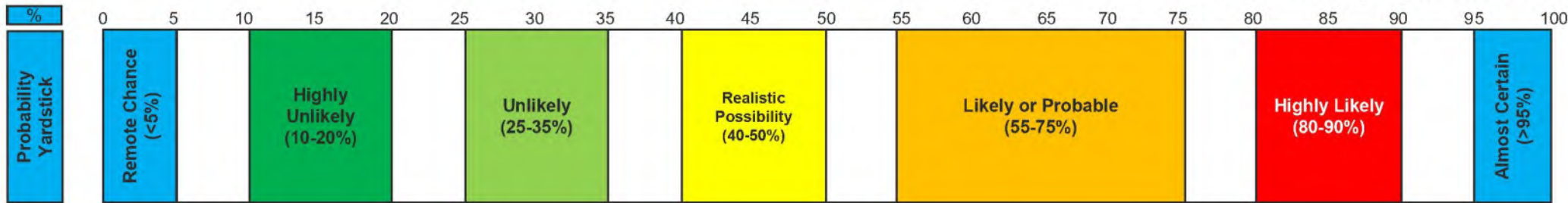
Date and time	Minimum Feels like Temp (C)	Small boat launching conditions at 00UTC			Likelihood of crossing attempts due to weather
		Western Beaches	Central Beaches	Northeast Beaches	
22UTC Tuesday, 23 November to 06UTC Wednesday, 24 November	2	Favourable	Marginal	Unfavourable	Likely
22UTC Wednesday, 24 November to 06UTC Thursday, 25 November	3	Favourable	Favourable	Unfavourable	Highly Likely
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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					Highly Unlikely
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22UTC Thursday, 02 December to 06UTC Friday, 03 December					Unlikely

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



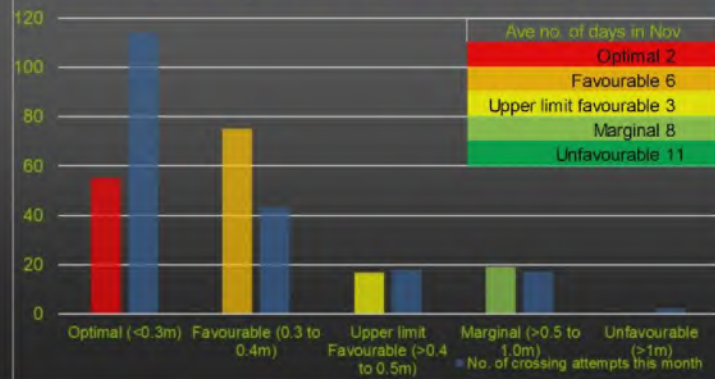
Significant wave height contours in 0.1M intervals. Ocean current contours in 0.1KT intervals. Total ocean current accounts for tidal flow and meteorological effects on ocean currents. All times UTC. All temperatures °C. All heights M.

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 Thursday, 02 December to 06UTC Friday, 03 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.

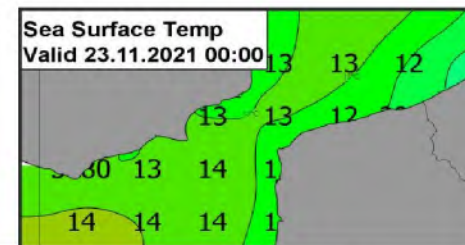
Headlines Days 1-10 (updated 23 Nov):

- A drop in temperatures is likely to lead to sub zero feels like temperatures from Thursday.
- Marginal crossing conditions are likely to gradually give way to favourable conditions in the south of the Channel overnight tonight. With Favourable conditions likely from 0300UTC onwards.
- Favourable or optimal crossing conditions are likely to remain until 0600UTC Thursday morning. At this point a strengthening northerly wind is likely to drive rapid increases in wave heights.
- A strong to near gale force west or northwest wind is likely to be maintained from Thursday through the outlook period. This is likely to lead to unfavourable crossing conditions through much of the following week as the wind and waves run into the French coast.
- There is a weak signal for a short window of upper limit favourable or marginal crossing conditions Monday into Tuesday, timings are currently very uncertain.

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.

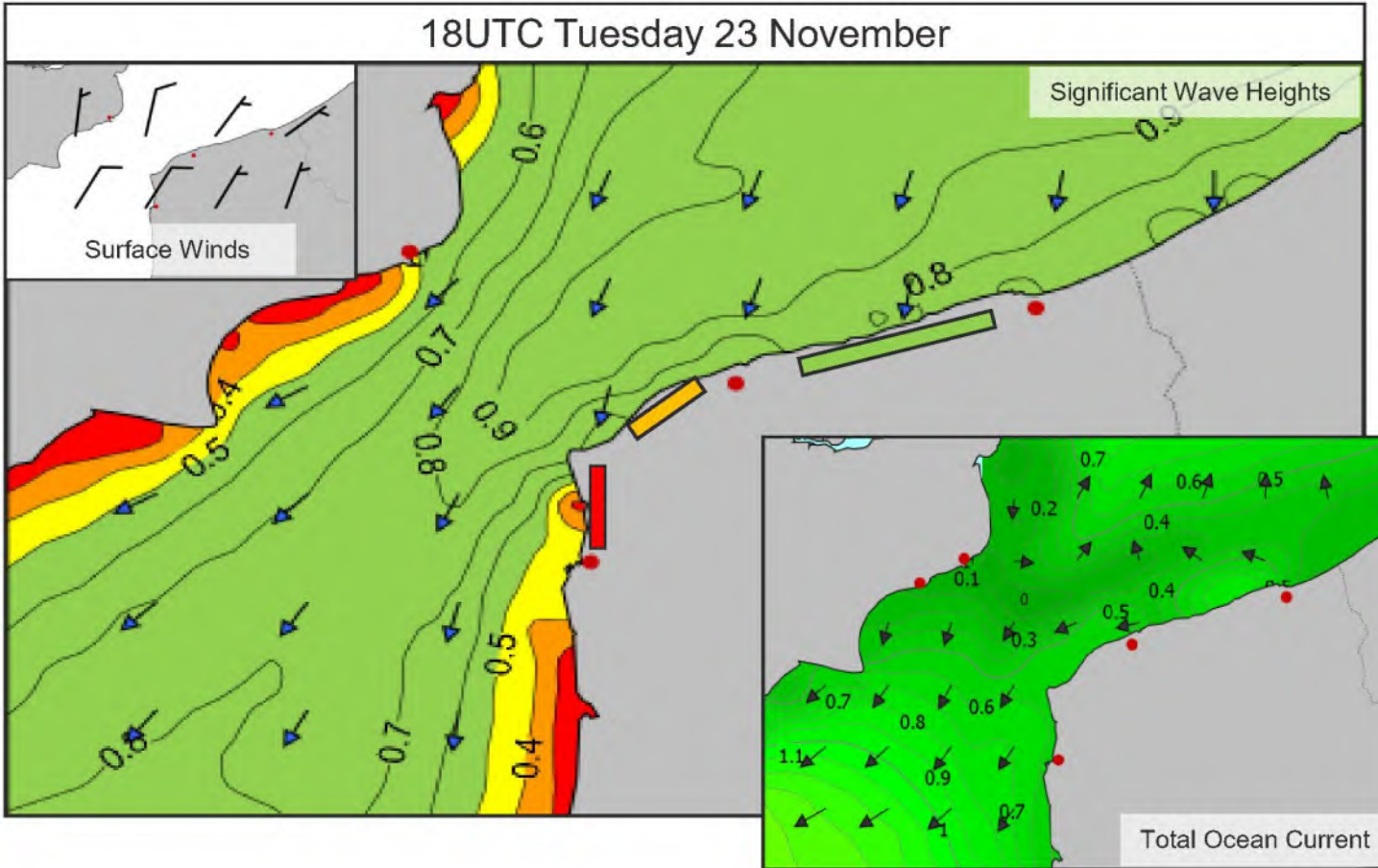
Figures, discussion and 30 day outlook normally updated on Wednesdays

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	23 Nov					24 November					25 November					26 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	Risk of fog at all airfields. Unlikely over the Channel.		Green	Green	Green	Green	Green	Green	Wind (crosswind and gusts)									
UAV (AR3 - Dover)	Green	Green	Green	Risk of fog at all airfields. Unlikely over the Channel.		Green	Green	Green	Green	Green	Green	Icing									
MCA fixed wing (Doncaster)	Green	Green	Green	Risk of fog at all airfields. Unlikely over the Channel.		Green	Green	Green	Green	Green	Green	Icing									
MCA Helicopter (Lydd)	Green	Green	Green	Risk of fog at all airfields. Unlikely over the Channel.		Green	Green	Green	Green	Green	Green	Icing									
Solar times (UTC)	Sunset 15:57					Sunrise 07:26					Sunset 15:56					Sunrise 07:28			Sunset 15:55		
Crossing attempt likelihood	Green	Green	Yellow	Yellow	Yellow	Red	Red	Red	Red	Green	Green	Green	Green								
Lowest feels like air temp (C)	6	6	5	3	2	5	5	4	3	4	2	0	-3								
French coast precip' (% chance)	10	40	20	20	20	10	10	50	50	50	10	10	10								
Wind Direction	N	NE	NE	NE	NE	-	-	N / S	N/SW	NNW	NNW	NNW	NW								
Wind Speed (KT)	12	8	5	5-12	8	3-5	3-5	8 / 5	15/8	15	25	20	15								



Crossing likelihood: Unlikely

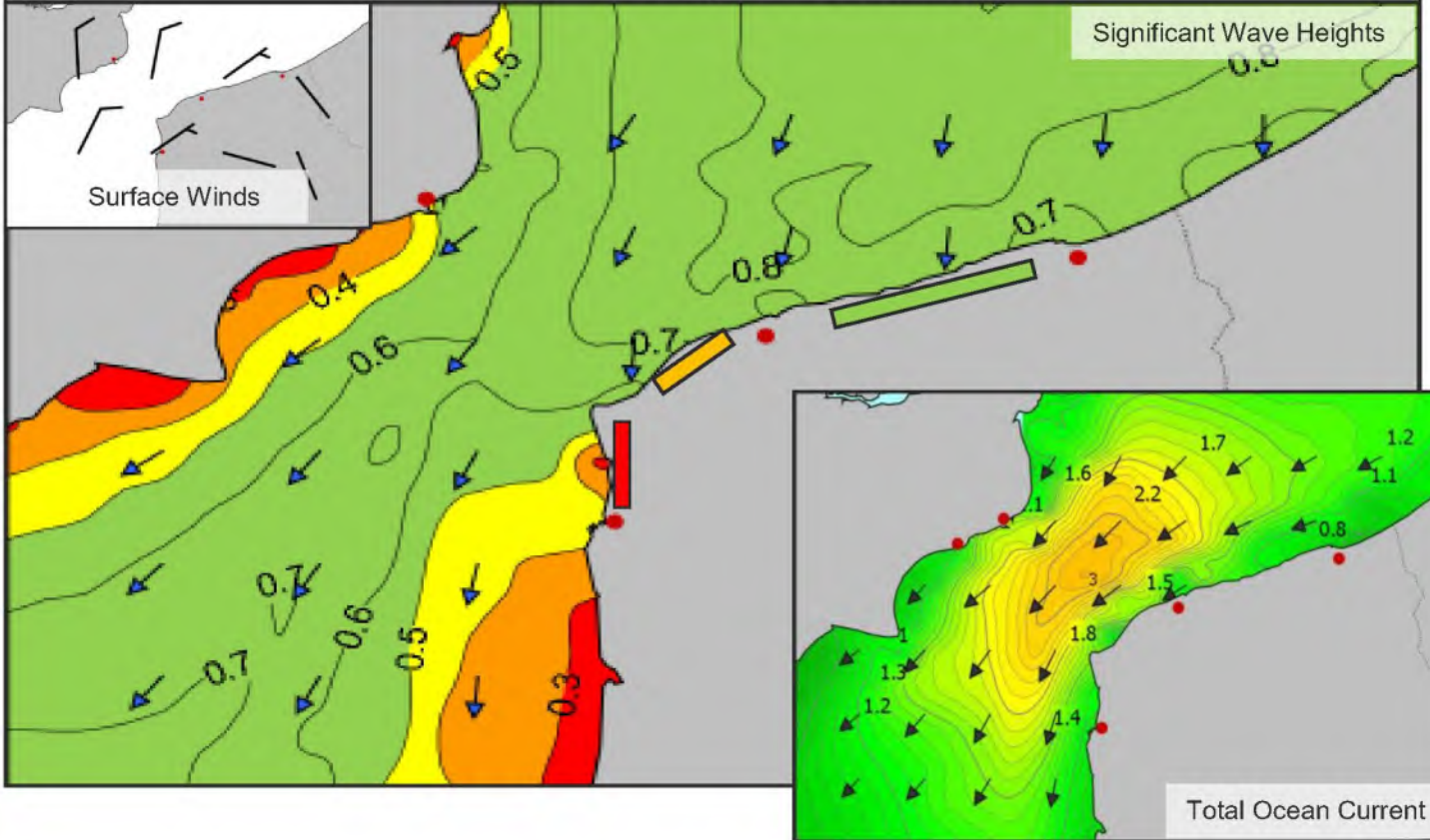
NSAG Comment

Marginal crossing conditions are likely to persist through the afternoon and into the evening as a moderate north-northeast wind with a long fetch over the North Sea drives significant wave heights of 0.7-0.9m in the Channel. The wind is likely to quickly become light and in response the waves are likely to gradually ease as the night progresses. Due to easterly component of the wind, south of Cap Gris Nez favourable launch conditions are likely throughout the night. Patchy cloud is likely through the night, perhaps thick enough on the French side to produce some patches of light rain. Windy.com is very similar throughout.

Calais Tides (UTC):

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

21UTC Tuesday 23 November



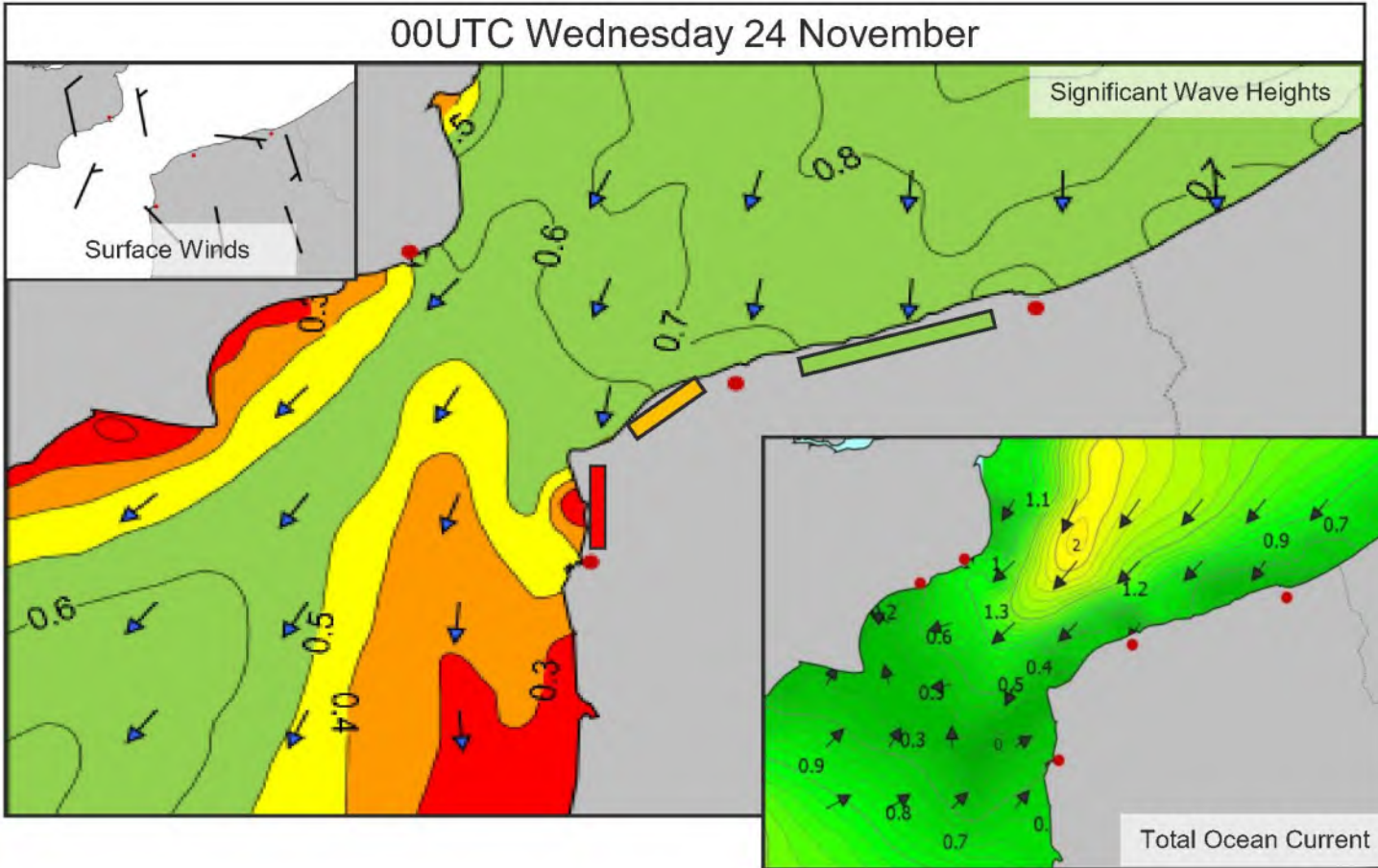
Crossing likelihood: Unlikely

NSAG Comment

The gradual easing of the winds is likely to allow a gradual easing of wave heights. Favourable conditions are likely to spread further off shore in the south.

Calais Tides (UTC):

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



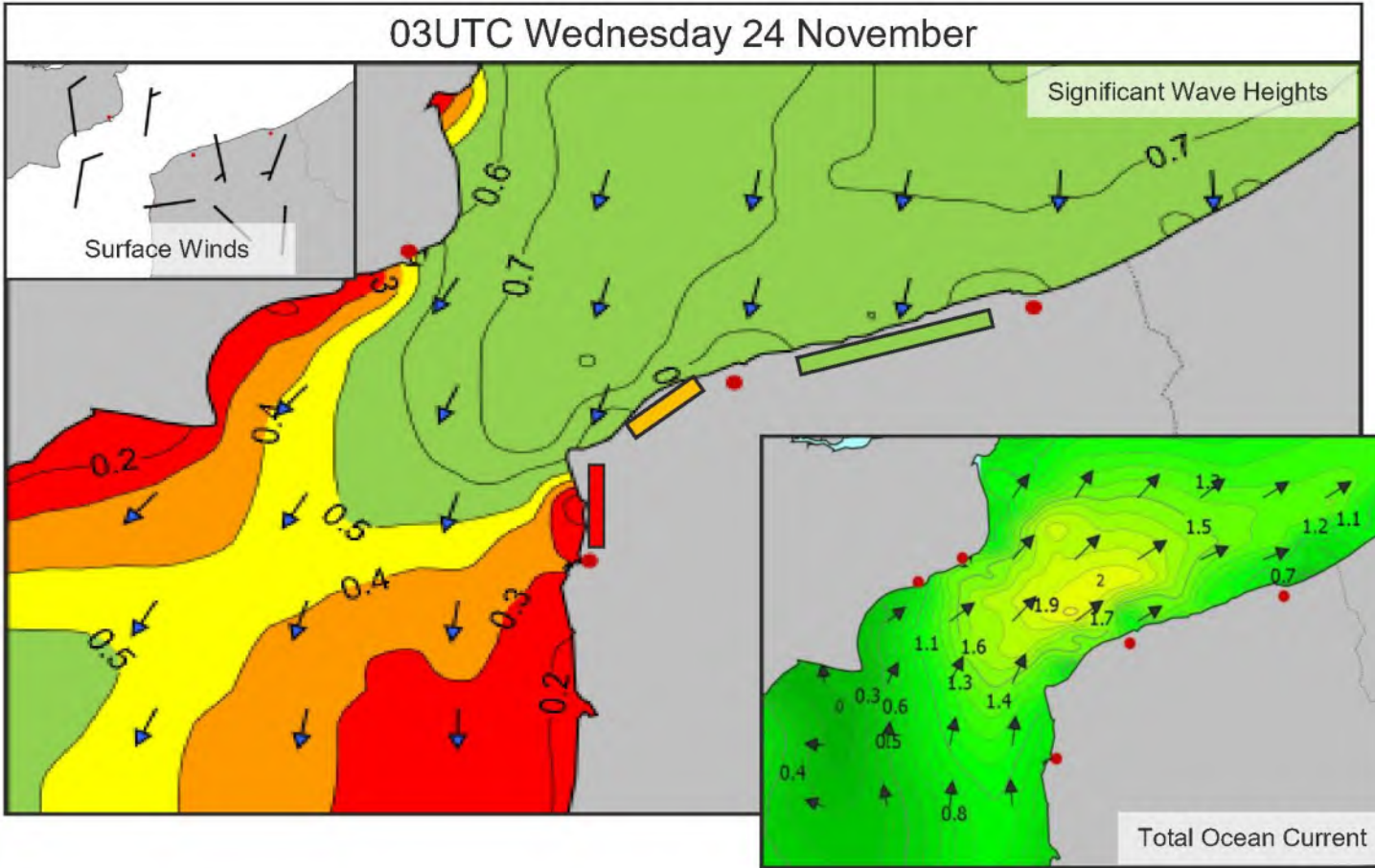
Crossing likelihood: Likely

NSAG Comment
Favourable conditions are likely to increasing spread across the south of the Channel as the wind becomes light and variable through most areas. A residual swell is likely to maintain marginal conditions in the north and unfavourable launch conditions from north facing beaches are likely to persist.

As the wind becomes light there is an increasing risk of mist or fog developing in Kent and Sussex. This is unlikely to form over the sea.

Calais Tides (UTC):

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



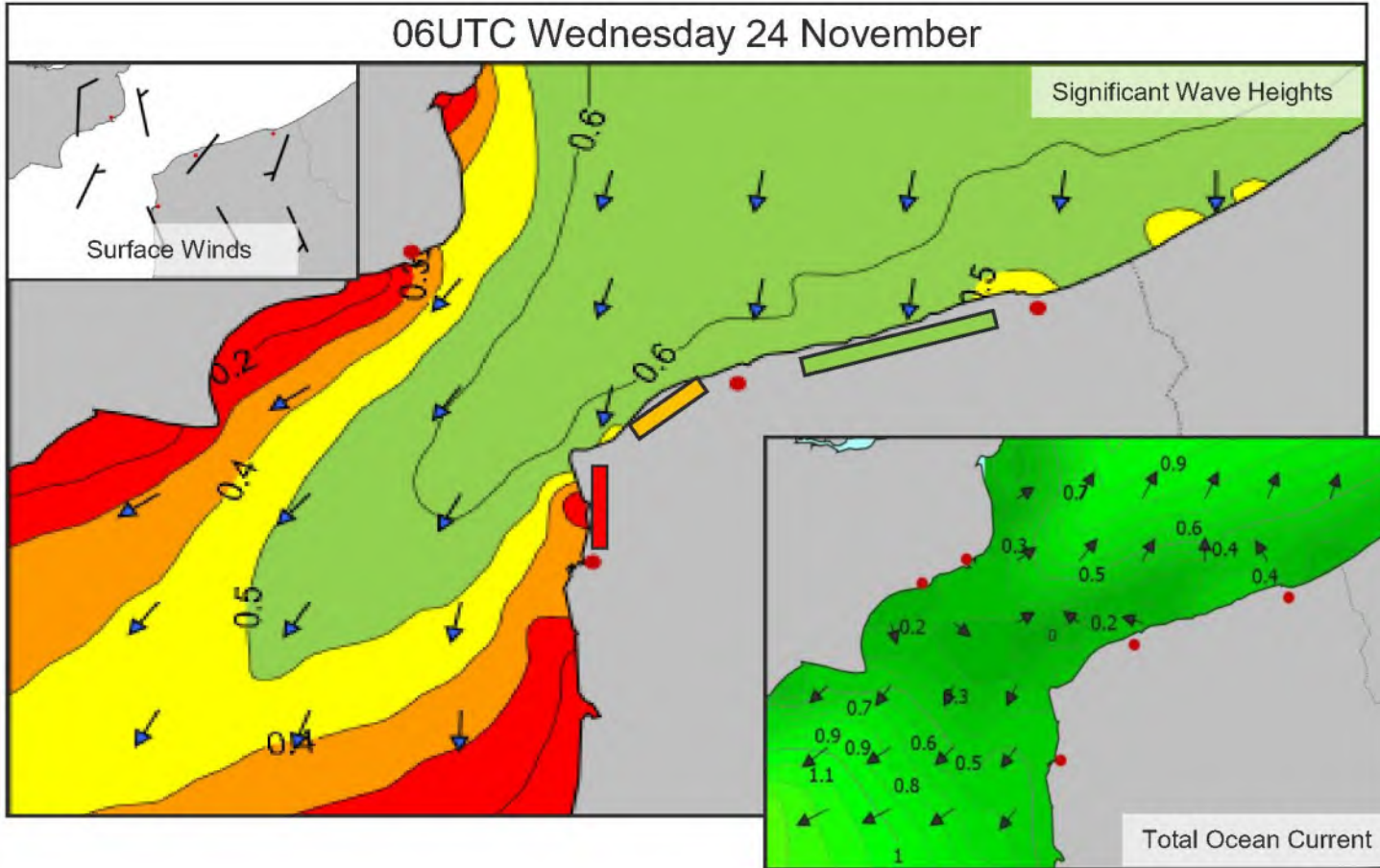
Crossing likelihood: Likely

NSAG Comment

Increasingly favourable in the southern Channel meanwhile the risk of mist and fog in Kent and Sussex increases.

Calais Tides (UTC):

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



Crossing likelihood: Likely

NSAG Comment

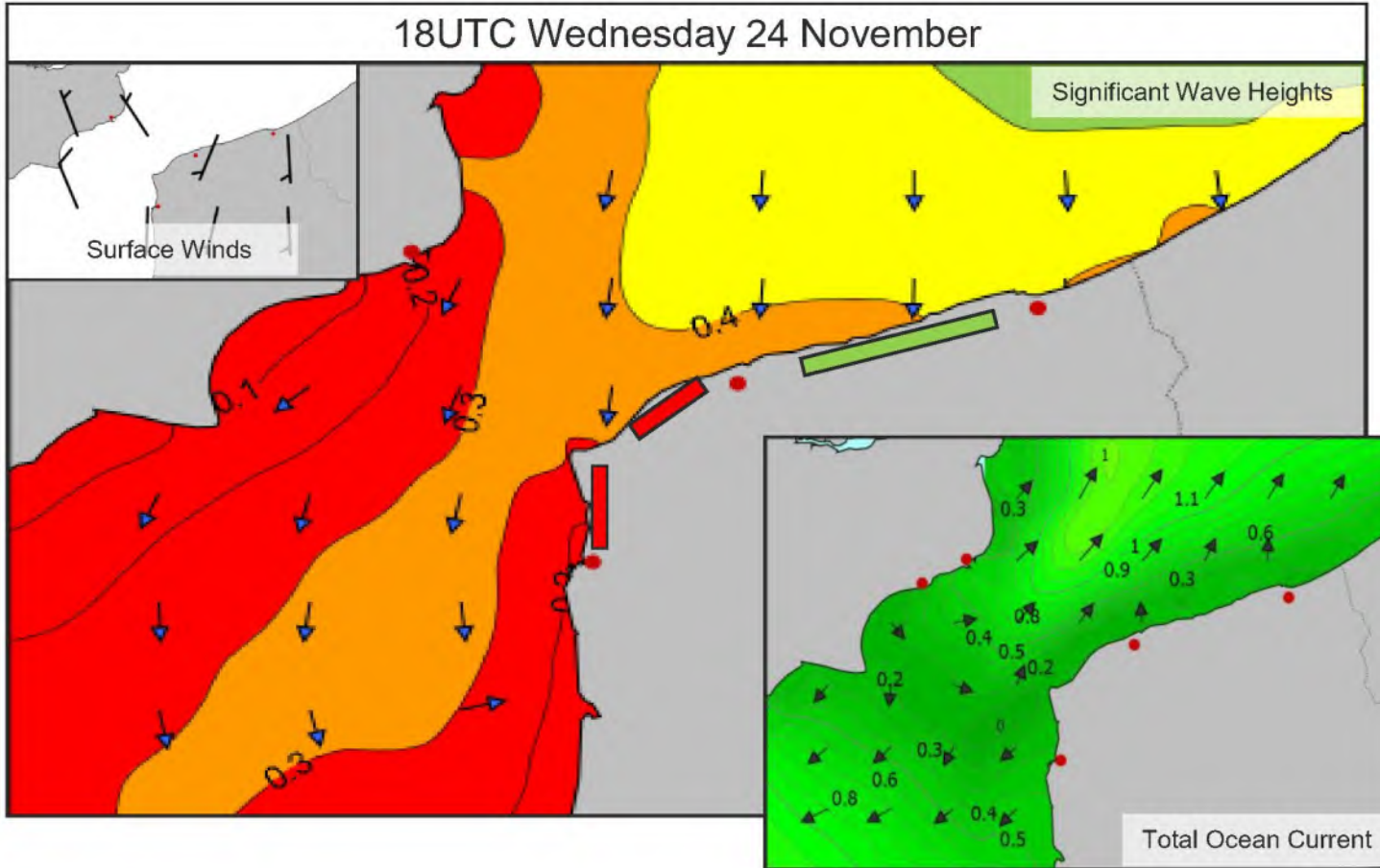
There is a realistic possibility of a temporary increase in significant wave heights for a couple of hours but this is unlikely to be noticeable from the French beaches south of Gris Nez and therefore is assessed as unlikely to impact the flow of small boats across the Channel.

Any mist and fog is likely to linger until mid morning to late morning.

Significant wave heights are likely to gradually lower through the morning with 0.3M or less from midday.

Calais Tides (UTC):

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



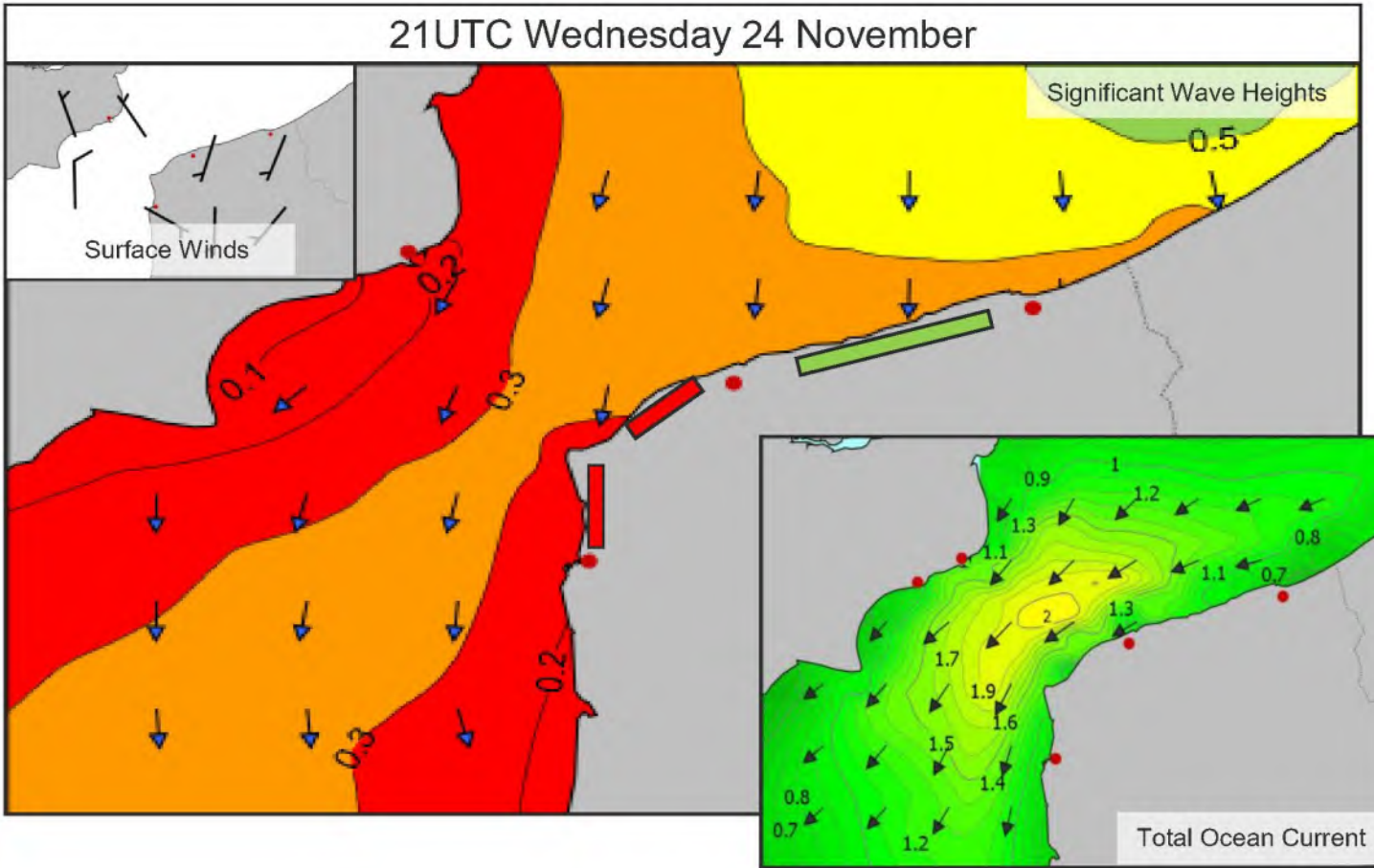
Crossing likelihood: Highly Likely

NSAG Comment

Favourable or optimal crossing conditions are likely throughout the afternoon and into the evening, with favourable launch conditions on all beaches south of Sangatte. Northerly winds are likely to persist along the English side of the Channel while a light south or south east wind is likely on the French side of the Channel. Along the divide is likely to be a band of cloud and patchy light rain. Through most of the night the cloud bases are likely to be high enough to not impact aerial assets.

Calais Tides (UTC):

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



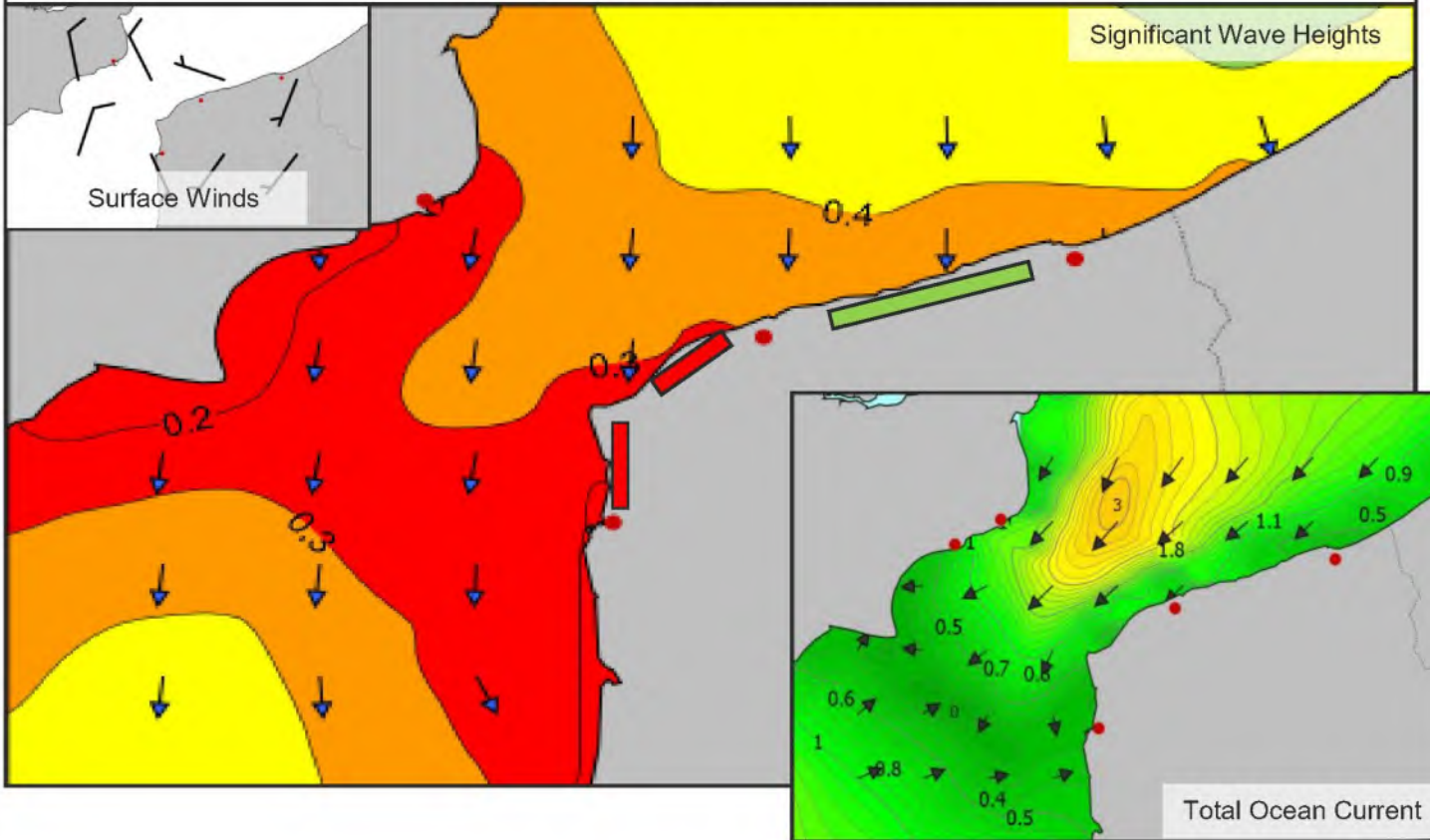
Crossing likelihood: Highly Likely

NSAG Comment
Little significant change

Calais Tides (UTC):

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

00UTC Thursday 25 November



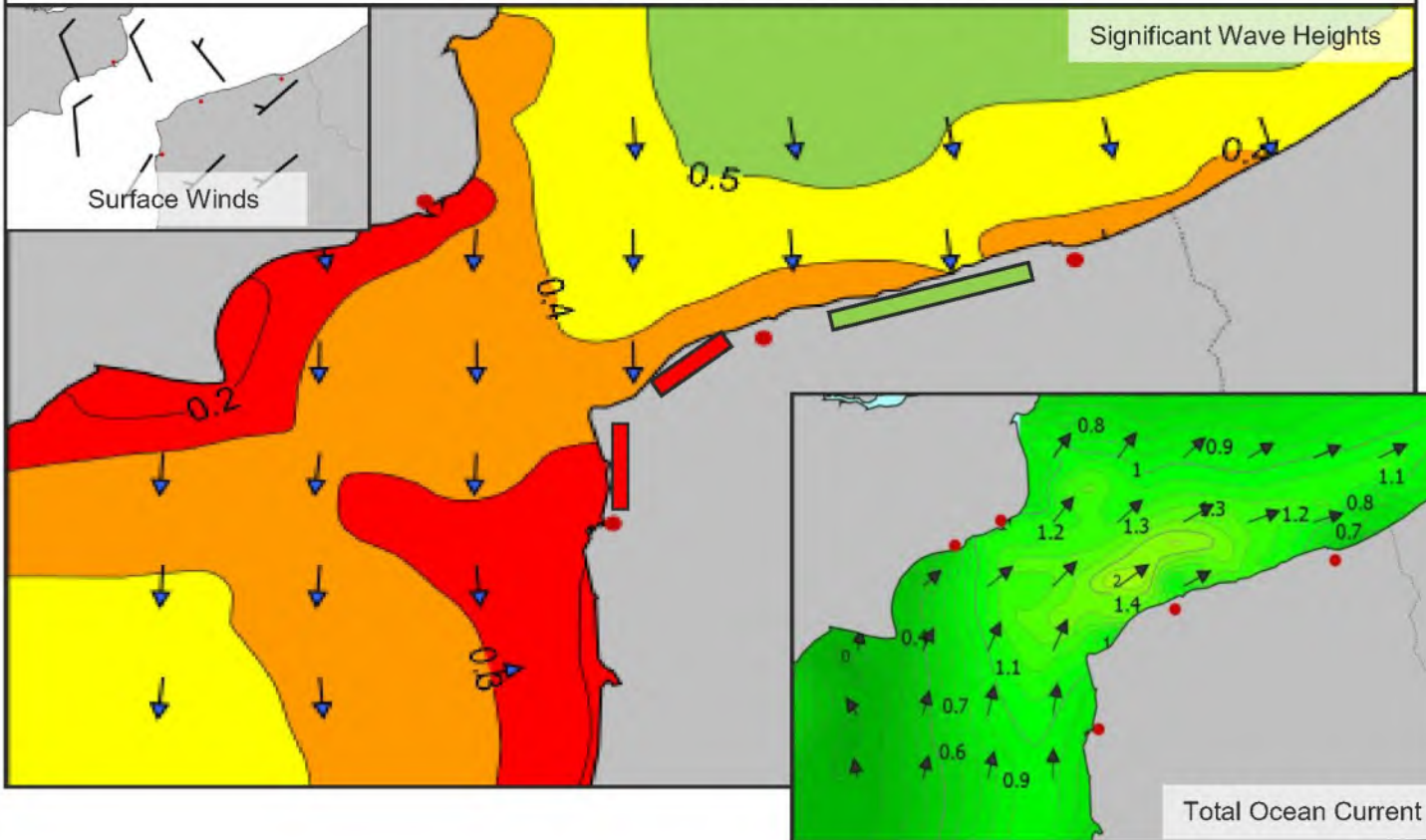
Crossing likelihood: Highly Likely

NSAG Comment
Little significant change

Calais Tides (UTC):

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

03UTC Thursday 25 November



Crossing likelihood: Highly Likely

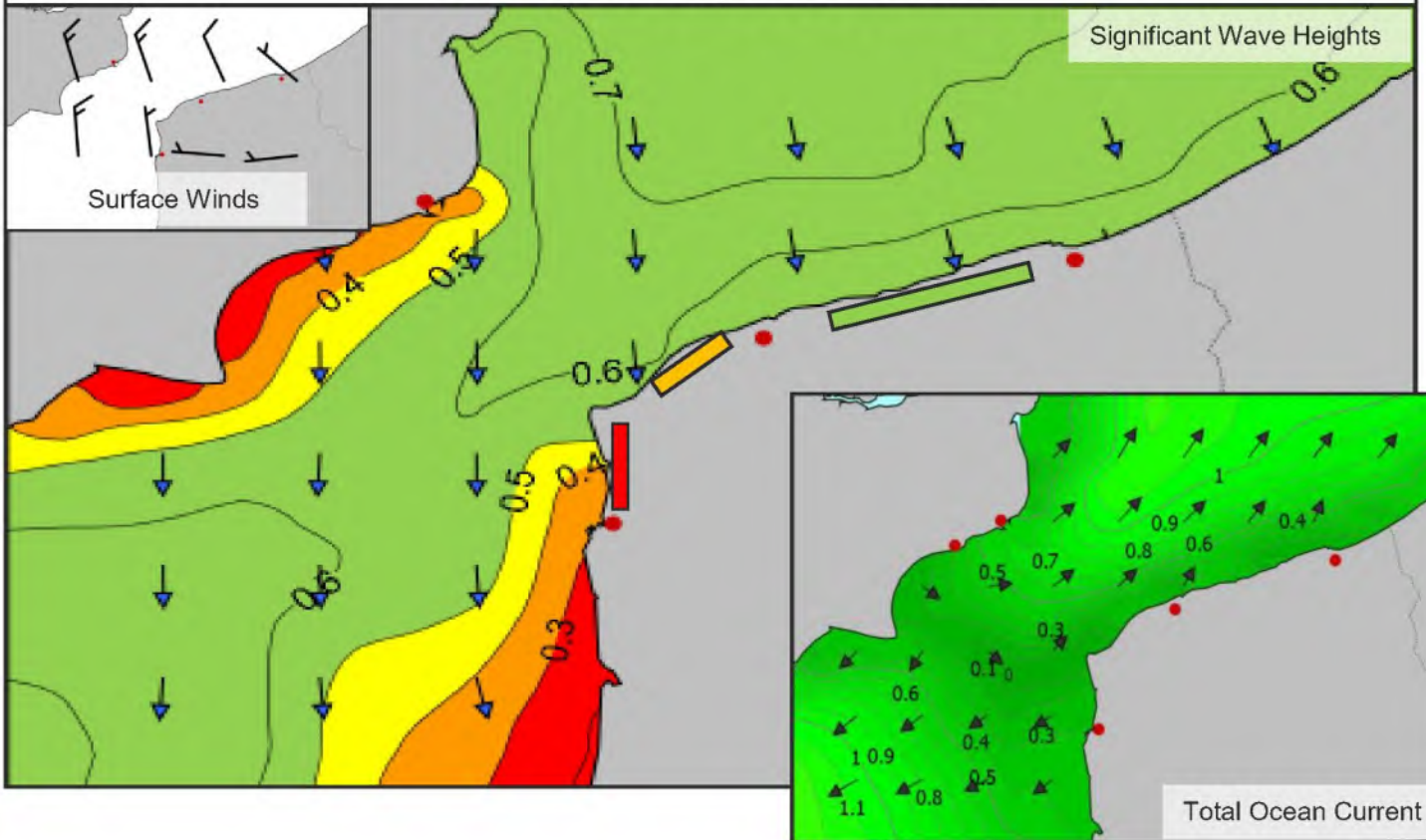
NSAG Comment

Little significant change to beach or sea conditions. However increasing amounts of cloud and a slight increase in the northerly wind on the English side of the Channel is likely to be the first sign of deteriorating conditions for both aerial assets and small boat crossings.

Calais Tides (UTC):

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

06UTC Thursday 25 November



Crossing likelihood: Unlikely

NSAG Comment

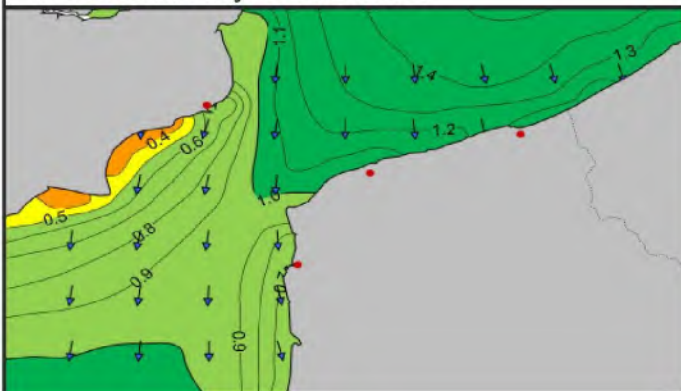
Rain and drizzle is likely to move south across the area associated with band of cloud. Clear skies are likely to quickly follow however as the skies clear the northerly wind is likely to quickly increase.

By 0900UTC significant wave heights are likely to be 0.7-0.9M.

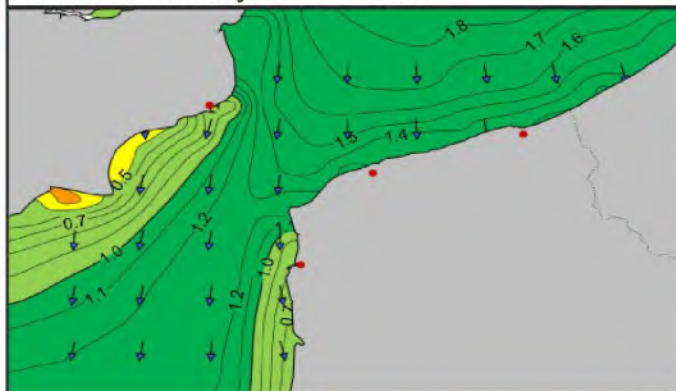
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High	Low	High	Low
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6.5	1.9	6.4	1.9

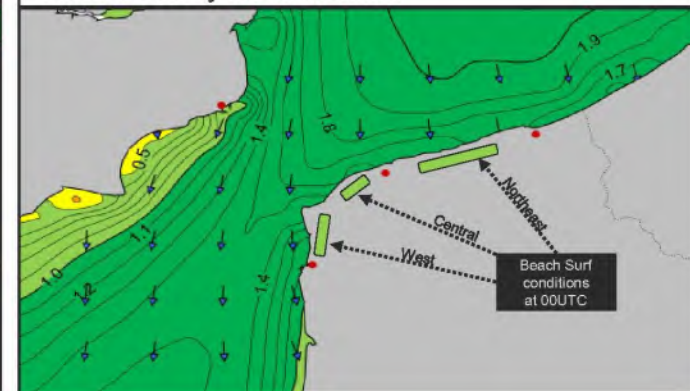
12UTC Thursday 25 November



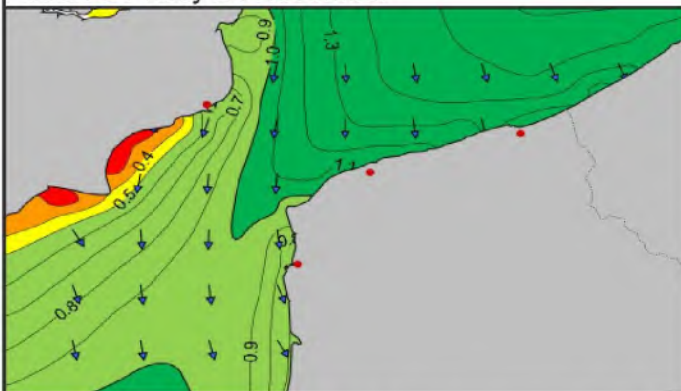
18UTC Thursday 25 November



00UTC Friday 26 November



06UTC Friday 26 November



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

As a strong northerly wind becomes established across the area through Thursday significant wave heights are likely to increase to greater than 1.0M through the afternoon and then persist through the night. A slight reduction is likely in the south towards dawn however beaches remain unfavourable for launching small boats with breakers greater than 0.5M.

Windy.com maintains wave heights over 1.0M throughout the night.

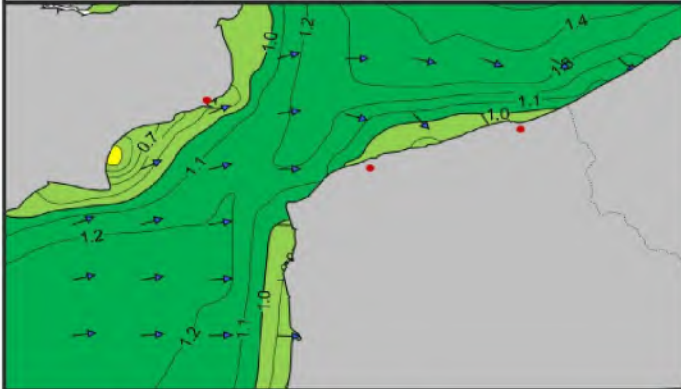
Minimum Channel feels like temperature -3C

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

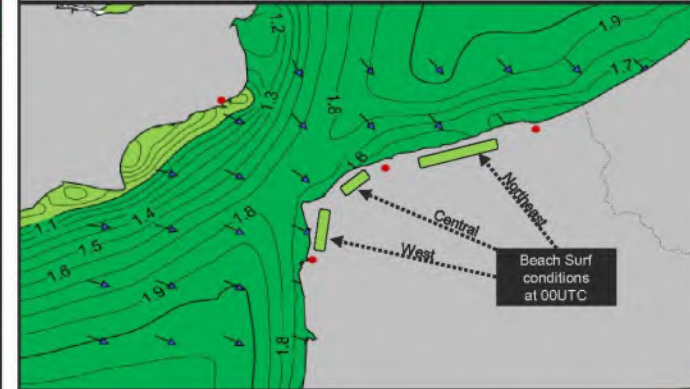
12UTC Friday 26 November



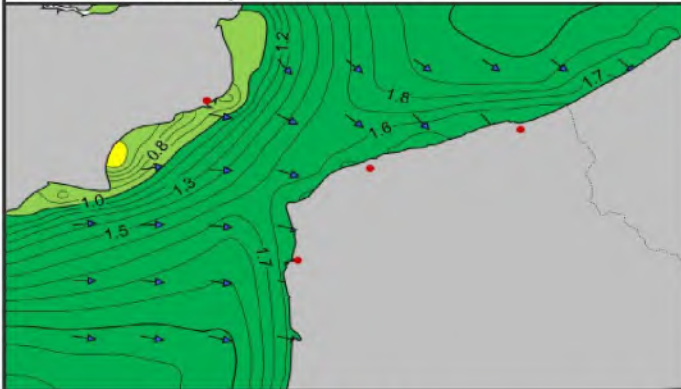
18UTC Friday 26 November



00UTC Saturday 27 November



06UTC Saturday 27 November



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

Strong to near gale force west and later northwest winds are lightly through the night driving unfavourable launching and crossing conditions throughout the night. This is likely to be accompanied by periods of rain. Windy.com maintains wave heights of 1.4-2.0M through the night.

Minimum Channel feels like temperature -2C

Calais Tides (UTC):

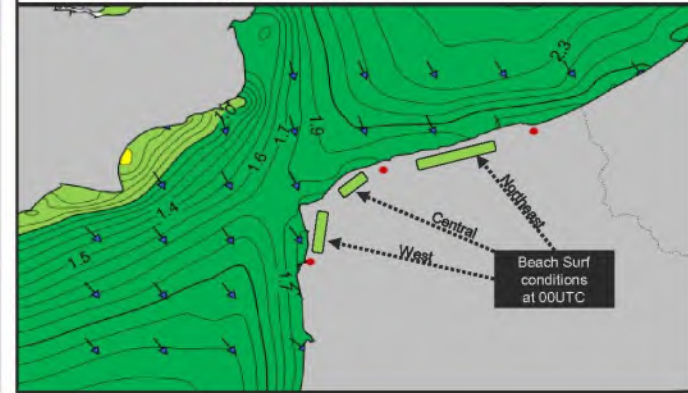
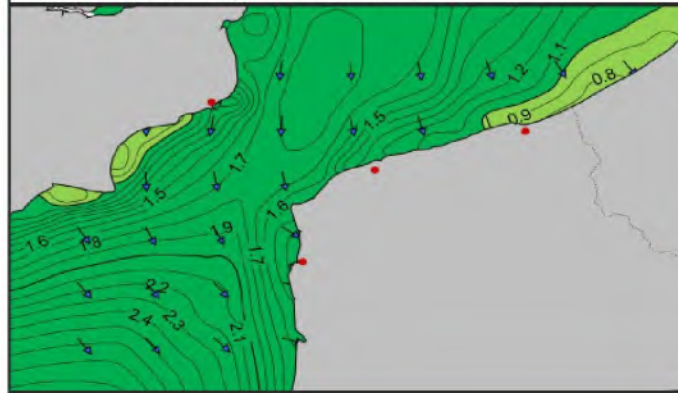
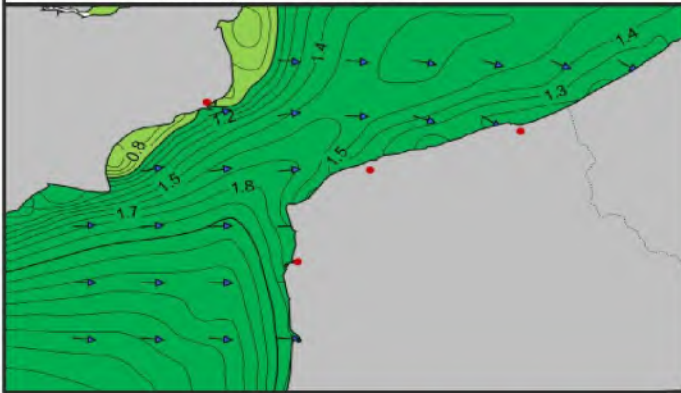
High	Low	High	Low
15:32	22:34	04:04	11:06
6.1	2.3	6.0	2.3

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

12UTC Saturday 27 November

18UTC Saturday 27 November

00UTC Sunday 28 November



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

Strong to gale force winds are likely through Saturday into Sunday. There is some uncertainty relating to the detail of the forecast (the track of a low pressure system in the North Sea) however the uncertainty is in how unfavourable conditions are likely to be with plausible scenarios producing significant wave heights from 1.0M to 3.0M. Windy.com is currently showing a forecast at the higher end of this range.

Minimum Channel feels like temperature -2C

Moonset 13:19 Sunset 15:54 Moonrise 23:25 Sunrise 07:32

Calais Tides (UTC):			
High	Low	High	Low
16:38	23:39	05:13	12:14
5.9	2.4	5.9	2.3

Outlook to Friday 03 December:

Strong west or northwest winds are likely to persist through much of the outlook period leading to largely unfavourable crossing conditions. There is currently a weak signal for a slight reduction in wave heights Monday into Tuesday, this reduction brings a realistic possibility of upper limit favourable or marginal crossing conditions for a short window but timings are currently very uncertain. The cold temperatures of the weekend are likely to return to normal for the time of year as the week progresses, however with the strength of the wind minimum feels like temperatures are likely to remain low single figures.

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