

Sea Reach to the Sunk – buoyage changes for the London Gateway Project

This CTTE publication is intended to provide readers with illustrations and an overview of the changes that have or are intended as a result of the London Gateway project. Sea Reach to the Black Deep has been dredged to provide a deep water route giving greater depth for larger Container Ships and the buoyage reflects this and the increased traffic that is expected. The images are not intended to be used for navigation and only show buoyage and marks outside of the Sea Reach to Black Deep channel where it helps reference the position of changes.

The changes include the provision of new buoys, some small movements of existing buoys, swapping a cardinal buoy with a lateral mark and a couple of light characteristic changes, all of which are notified in Port of London Authority Notice 14 of 2013 and Trinity House Notice 18 of 2013

It will be noticed that in the Black Deep Channel, three yellow special buoys will be established in what look like the centre of the channel. Courtesy of Garth Cooper and the RYA, it has been confirmed that there is no intention to establish a two-way traffic separation; rather that the special pillar buoys are there to indicate the deeper water in the Black Deep between them and the normal Black Deep buoys marking its southern edge.

In Sea Reach, the aim is to replace the existing central marks with paired buoys marking either side of the Yantlet Channel. No suggestion has been made so far that the small craft crossing points are to be changed.

There is a clear obligation for us to heed the likely increase in shipping in the Black Deep which of course is restricted to a narrow channel, particularly in the Knock John. Please bear in mind that tidal rates in the Black Deep in particular can exceed 2kts at certain times of the ebb.

Schedule

Sea Reach Changes

Existing Sea Reach centre line buoys 1, 3, 5 and 7 will be removed and the new 'odd' numbered buoys installed on or about 12th August, 2013 and The work is expected to take 4 days to complete. The remaining Sea Reach centre line buoys 2, 4 and 6 will be removed and the new 'even' numbered buoys installed on or about 27th August 2013. This is also expected to take 4 days to complete.

Black Deep Changes

Placing the new buoys and completing the buoy movements in the Black Deep and Knock John will take place on or after 1st October, 2013. Note that the Black Deep buoy has already been moved following a survey of the Long Sand Head and that the Sunk Inner Light Float will be moved on or after 1st August, 2013. These are subject to earlier Trinity House notices which have already been issued.

The List of Buoyage

This shows all the changes, movements and new stations and when these are expected. The List, which runs from West to East, also includes details of buoyage that remains unchanged. As these will be on your existing charts, their position is omitted.

The Images

Three are provided: Sea Reach, the Oaze Deep and Knock John extended into the Black Deep, and the eastern part of the Black Deep. These are not intended to be used for navigation. Light characteristics are only shown for the Sea Reach to Black Deep Channels. Note the small craft crossing point across the Yantlet Channel is shown on the Sea Reach image and the swatchways across the Sunk Sand are shown on the other two images. Details of the Sunk Sand crossing points can be found on the web site: www.crossingthethamesestuary on the Updates and Downloads page.

Please note, this version of the CTTE publication includes the one small correction to the position of Racon T in Sea Reach published in PLA NtM L14 of 2013 and the images published by the UKHO in Preliminary Notice 4255(P) of 2013.

Roger Gaspar

West Mersea

23rd September, 2013

Table showing positions and characteristics when complete










Buoy	Type		Light	Other Characteristic	Latitude	Longitude	Status	Comment
The Yantlet Channel								
Sea Reach 7 North	Pillar special buoy		FL Y 2.5 s		51° 30'.206 N	00° 36'.938 E	New	On or about 12th August 2013
Sea Reach 7 South	Port buoy		FL R. 2.5 s	Racon T	51° 30'.011 N	00° 36'.908 E	New	
Sea Reach 6 North	Starboard buoy		FL G. 5 sec		51° 30'.126 N	00° 39'.867 E	New	On or about 27th August 2013
Sea Reach 6 South	Port hand buoy		FL R. 5 s		51° 29'.932 N	00° 39'.839 E	New	
Sea Reach 5 North	Starboard buoy		VQG		51° 30'.041 N	00° 41'.473 E	New	On or about 12th August 2013
Sea Reach 5 South	Port buoy		VQR		51° 29'.848 N	00° 41'.426 E	New	
Sea Reach 4 North	Starboard buoy		FL G. (2) 5 s		51° 29'.694 N	00° 44'.193 E	New	On or about 27th August 2013
Sea Reach 4 South	Port buoy		FL R. (2) 5 s		51° 29'.504 N	00° 44'.121 E	New	
South East Leigh	South cardinal buoy		Q (6) + L FL 15 sec		51° 29'.410 N	00° 47'.061 E	Slight move South	On or about 12th August 2013

Table showing positions and characteristics when complete










Sea Reach 3 South	Port buoy		QR		51° 29'.221 N	00° 46'.707 E	New	On or about 12th August 2013
Sea Reach 2 North	Starboard buoy		FL G. 5 s		51° 29'.493 N	00° 49'.726 E		On or about 27th August 2013
Sea Reach 2 South	Port buoy		FL R. 5 s		51° 29'.296 N	00° 49'.754 E	New	
Sea Reach 1 North	Pillar special buoy		FL Y 2.5 s	Racon T	51° 29'.586 N	00° 52'.710 E	New	On or about 12th August 2013
Sea Reach 1 South	Port buoy		FL R. 2.5 s		51° 29'.368 N	00° 52'.445 E	New	
The Oaze Deep								
West Oaze	Safe Water Mark		Iso.5s		51° 28'.975N	000° 55'.413E	To be moved approx. 186° x 162 metres	On or about 1 st October, 2013
Oaze	Pillar special buoy		Fl Y (4) 10s		51° 28'.977N	000° 56'.917E	To be moved approx. 185° x 158 metres	
Argus	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark	51° 29'.297N	000° 58'.715E	New	
Oaze Deep	Starboard Buoy		Fl G. (2) 5s		51° 30'.000N	001° 00'.000E	To be moved approx. 266° x 807 metres	

Table showing positions and characteristics when complete








SE Mouse	Starboard Buoy		QG				Unchanged	
The Knock John Channel								
Knock John No.7	Starboard Buoy		Fl G. (4) 15s		51° 31'.956N	001° 06'.406E	To be moved approx. 175° x 125 metres	On or about 1 st October, 2013
Knock John No. 5	Starboard Buoy		Fl G. (3) 10s	Light to be synchronised with Knock John No.4	51° 32'.490N	001° 07'.750E	Remains in existing position	
Knock John No.4	Port Buoy		Fl.R.(3)10 s	Light character changed: Light to be synchronised with Knock John No.5	51° 32' .323N	001° 07.906E.	To be moved approx. 235° x 249 metres	
Knock John No.3	Starboard buoy		Fl.G.5 seconds	Light to be synchronised with Knock John No.2	51° 33'.278N	001° 09'.692E	Existing buoy to be discontinued and a new buoy established in lieu but in a revised position	
Knock John No.2	Port Buoy		Fl.R.5 s	Light character changed and synchronised with Knock John No.3	51° 33'.112N	001° 09'.847E	To be moved approx. 058° x 301 metres	
Knock John No.1	South Cardinal Buoy		Q(6)+ L.Fl.15 s	South Cardinal Topmark.	51° 33'.717N	001° 10'.833E	Existing buoy to be discontinued and a new lighted buoy established in lieu but in a revised position	

Table showing positions and characteristics when complete










Knock John	Port Buoy		Fl R. (2) 5s		51° 33'.661N	001° 11'.357E	To be moved approx. 351° x 100 metres	
The Black Deep Channel								
Black Deep No.12	Port Buoy		Fl R. (4) 15s		51° 33'.931N	001° 13'.511E	To be moved approx 005° x 184 metres	On or about 1 st October, 2013
Black Deep No.11	Starboard buoy		Fl G. (3) 10s		51° 34'.250N	001° 13'.475E	To be moved approx 149° x 177 metres	
Black Deep No.10	Port Buoy		Fl R. (3) 10s				Unchanged	
Black Deep No.9	South Cardinal Buoy		Q(6)+LFl.15s				Unchanged	
Inner Fisherman	Port Buoy		QR				Unchanged	
Black Deep No.8	West Cardinal Buoy		Q(9) 15s				Unchanged	
Black Deep No.7	Starboard buoy		QG				Unchanged	
BDM2	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark.	51° 37'.370N	001° 20'.040E	New	On or about 1 st October, 2013

Table showing positions and characteristics when complete













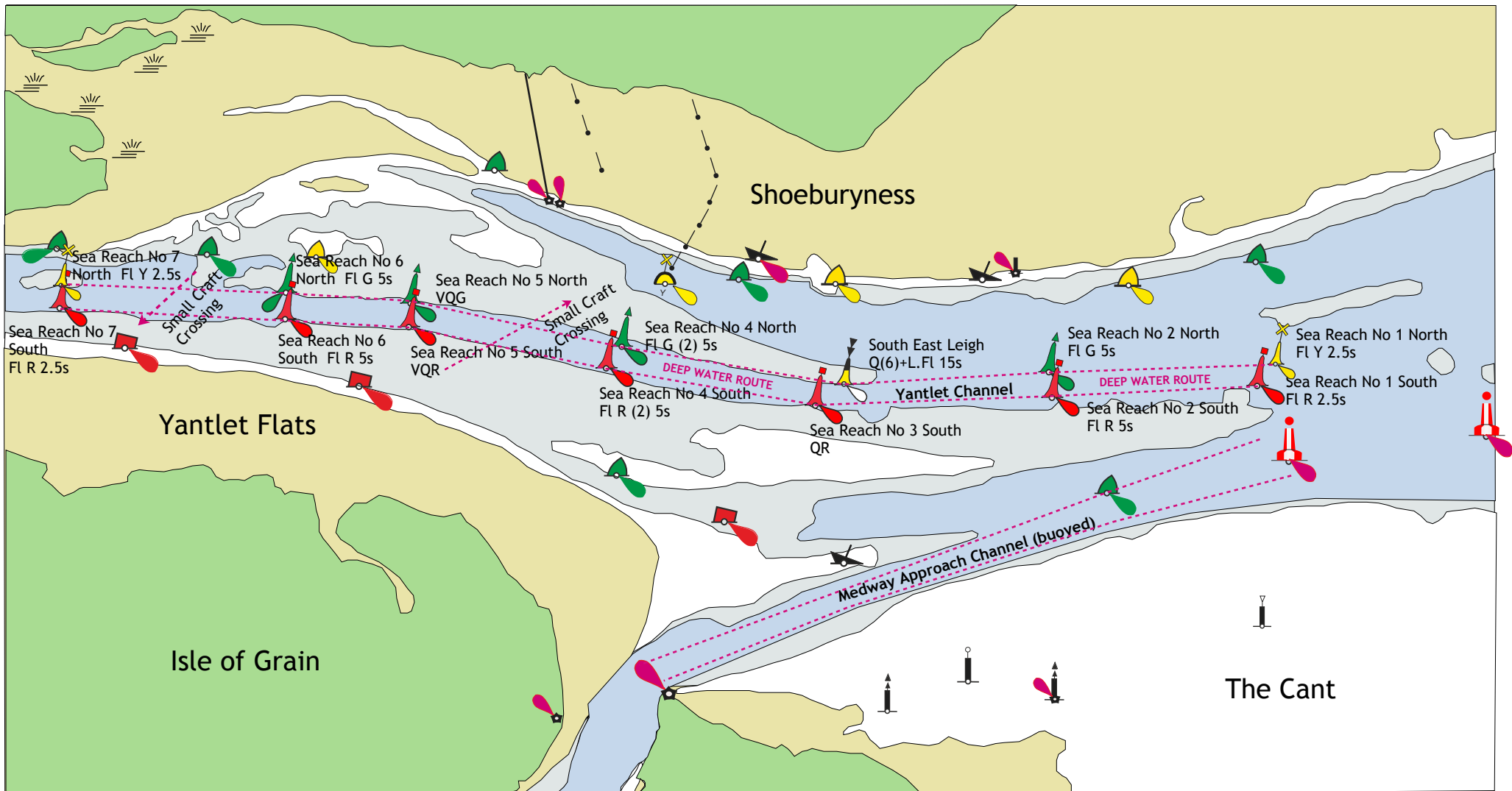
Black Deep No.6	Port Buoy		Fl R. 2.5s				Unchanged	
Black Deep No.5	East Cardinal Buoy		VQ(3) 5s				Unchanged	
BDM1	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark	51° 41'.960N	001° 27'.590E	New	On or about 1 st October, 2013
Black Deep No.4	Port Buoy		Fl R (2) 5s				Unchanged	
Black Deep No.3	Starboard Buoy		Fl G (3) 15s				Unchanged	
Black Deep No.1	Starboard Buoy		Fl G. 5s				Unchanged	
Black Deep No.2	Port Buoy		Fl R (4) 15s				Unchanged	
SHM	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark: Racon T	51° 46'.050N	001° 31'.540E	New	On or about 1 st October, 2013
Sunk Head Tower	North Cardinal Buoy		Q				Unchanged	

Table showing positions and characteristics when complete

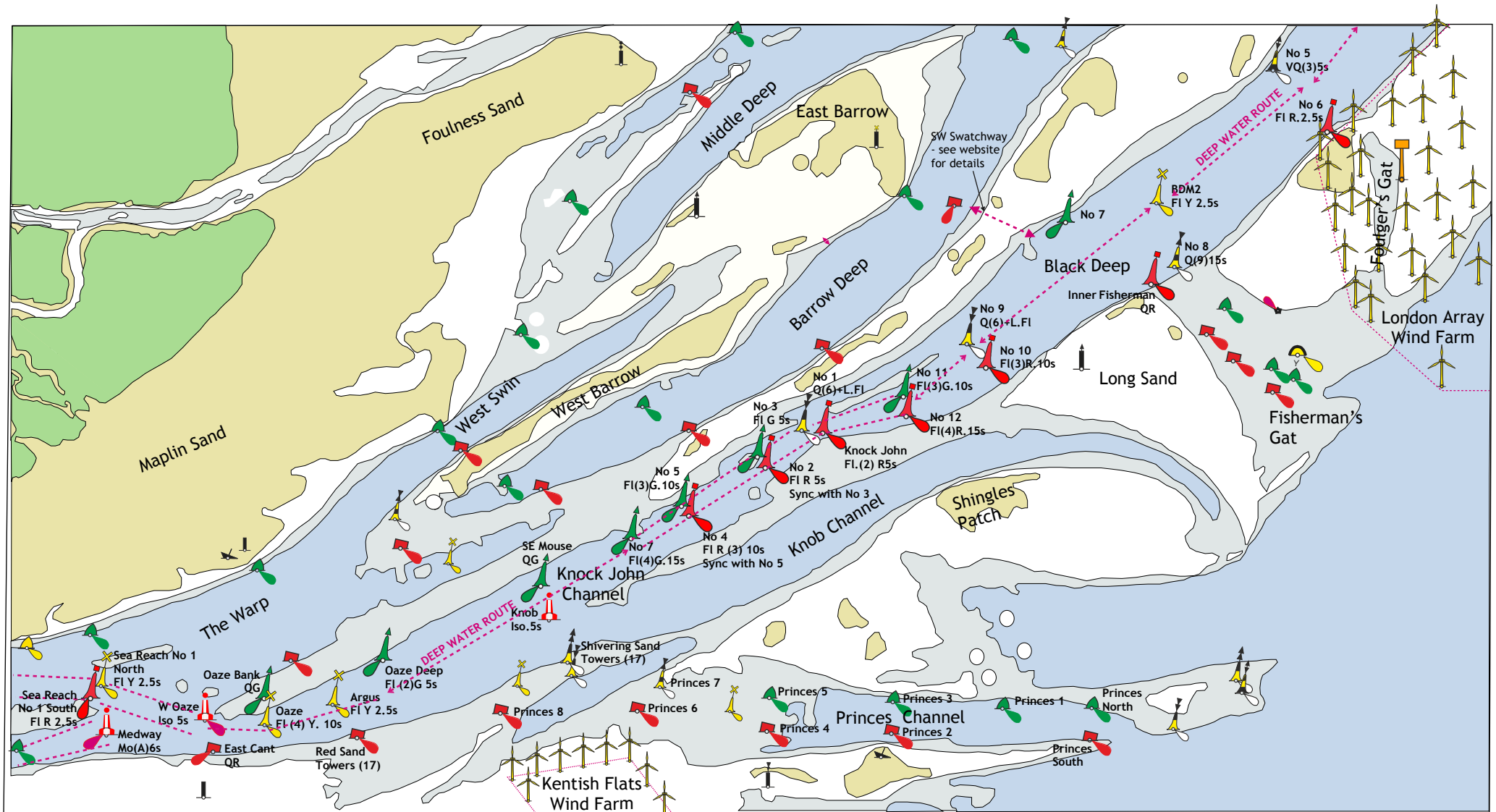
Black Deep	Port Buoy		QR		51°48′.10N	001°36′.60E	Moved 328° 400 metres	Trinity House NtM No 11 of 2013 (10 th April, 2013)
Dynamo	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark	51° 50′.060N	001° 33′.880E	New	On or about 1 st October, 2013
Sunk Inner	Light Float		Iso.3s	11m12M Horn (1) 30s	51° 51′.170N	001° 34′.400E	To be moved 295°T 619 metres	On or about 1 st August, 2013 Trinity House NtM 15 of 2013 (4 th July, 2013)

Sea Reach - New Buoyage, from August 2013



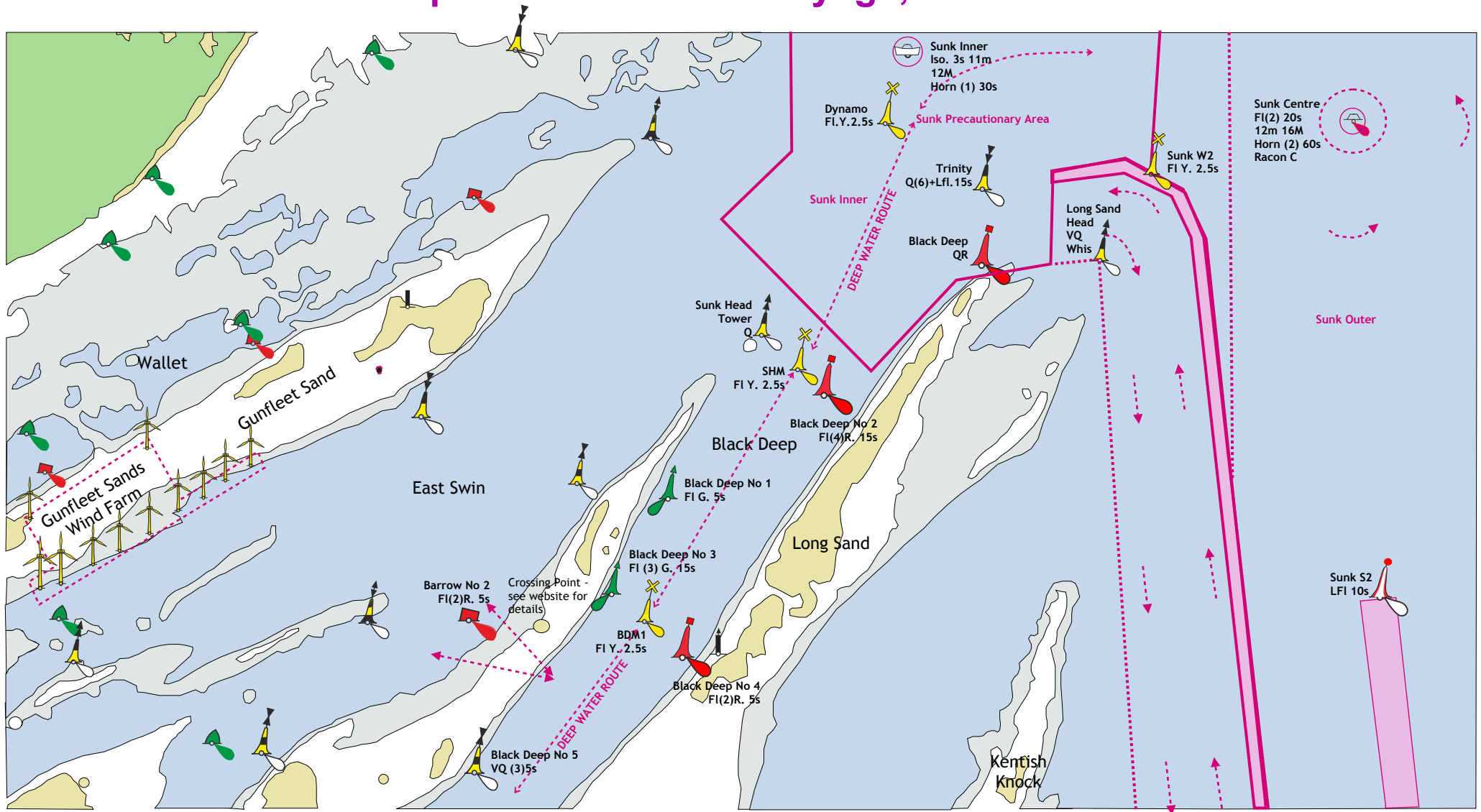
Not to be used for Navigation

Black Deep and Knock John - New Buoyage, from October 2013



Not to be used for Navigation

Black Deep Channel - New Buoyage, from October 2013



Not to be used for Navigation

UKHO Notices to Mariners

Notice 4255(P)/13 ENGLAND - East Coast - Thames Estuary - Sunk, Black Deep, Knock John Channel, Oaze Deep, Yantlet Channel and Sea Reach - Deep water route. Buoyage. Channels.

Source: Port of London Authority & Trinity House

1. As part of the recent dredging campaign for the London Gateway Project and the deepening of channels between the Sunk (51° 51′.70N., 1° 38′.77E.) and Sea Reach (51° 29′.70N., 0° 29′.70E.), significant changes affecting deep draught vessels will occur on the 1 October 2013.
2. The following is a list of the major changes that will happen on that date (please refer to the three diagrams overleaf):
 - a. Within the Sunk Inner Precautionary Area, the Sunk Deep Water Route will be moved approximately 250 metres to the north west so that it runs parallel to the old route. The new route will be marked by the Sunk Inner Buoy which was moved earlier in August. A new buoy is to be laid to mark the wreck of the Dynamo - see London Gateway Project, changes to ships routeing - Figure 1.
 - b. In the vicinity of the Sunk Head, the Sunk Deep Water Route will lead into a new deepened channel approximately 300 metres wide and 5000 metres long. A new special marker buoy (SHM) will mark the junction of the Trinity Deep Water Route to this new channel - see London Gateway Project, changes to ships routeing - Figure 1.
 - c. In the Black Deep and Fisherman's Gat Precautionary Area, a new Deep Water Route and deepened channel will be established marked by special marker buoys - see London Gateway Project, changes to ships routeing - Figure 2.
 - d. In the Knock John Channel, all the buoyage is to be repositioned to mark a slightly amended 300 metres wide deepened channel - see London Gateway Project, changes to ships routeing - Figure 2.
 - e. In the Oaze Precautionary Area, the Deep Water Route is to be moved south of its current charted position with buoyage repositioned to mark the channel and special marker buoys inserted to mark significant wrecks - see London Gateway Project, changes to ships routeing - Figure 3.
 - f. The Yantlet Channel will be extended by 3000 metres east south east to link in with the Oaze Deep Water Route near the West Oaze buoy - see London Gateway Project, changes to ships routeing - Figure 3.
 - g. The Oaze Precautionary Area is to be extended northward by approximately 500 metres in the western part of the Warp area - see London Gateway Project, changes to ships routeing - Figure 3.
3. Mariners are advised that these measures have been put in place specifically for deep draught vessels. Where smaller vessels have sufficient sea room to navigate safely away from the Deep Water Route they are encouraged to do so.
4. For further information mariners should refer to the Port of London Authority.
5. These changes will be included on New Editions of charts 1183, 1185, 1186, 1606, 1607, 1609, 1975 and 2692 to be published in November 2013. Charts 2484 and 2052 will be updated by Notices to Mariners. Those New Editions that cover the Sea Reach area will show the layout of the new London Gateway Container Port. For details of changes to buoyage in Sea Reach please refer to Notice 3514(P)/13. (In Week 33)

LONDON GATEWAY PROJECT CHANGES TO SHIPS ROUTEING

FIGURE 1

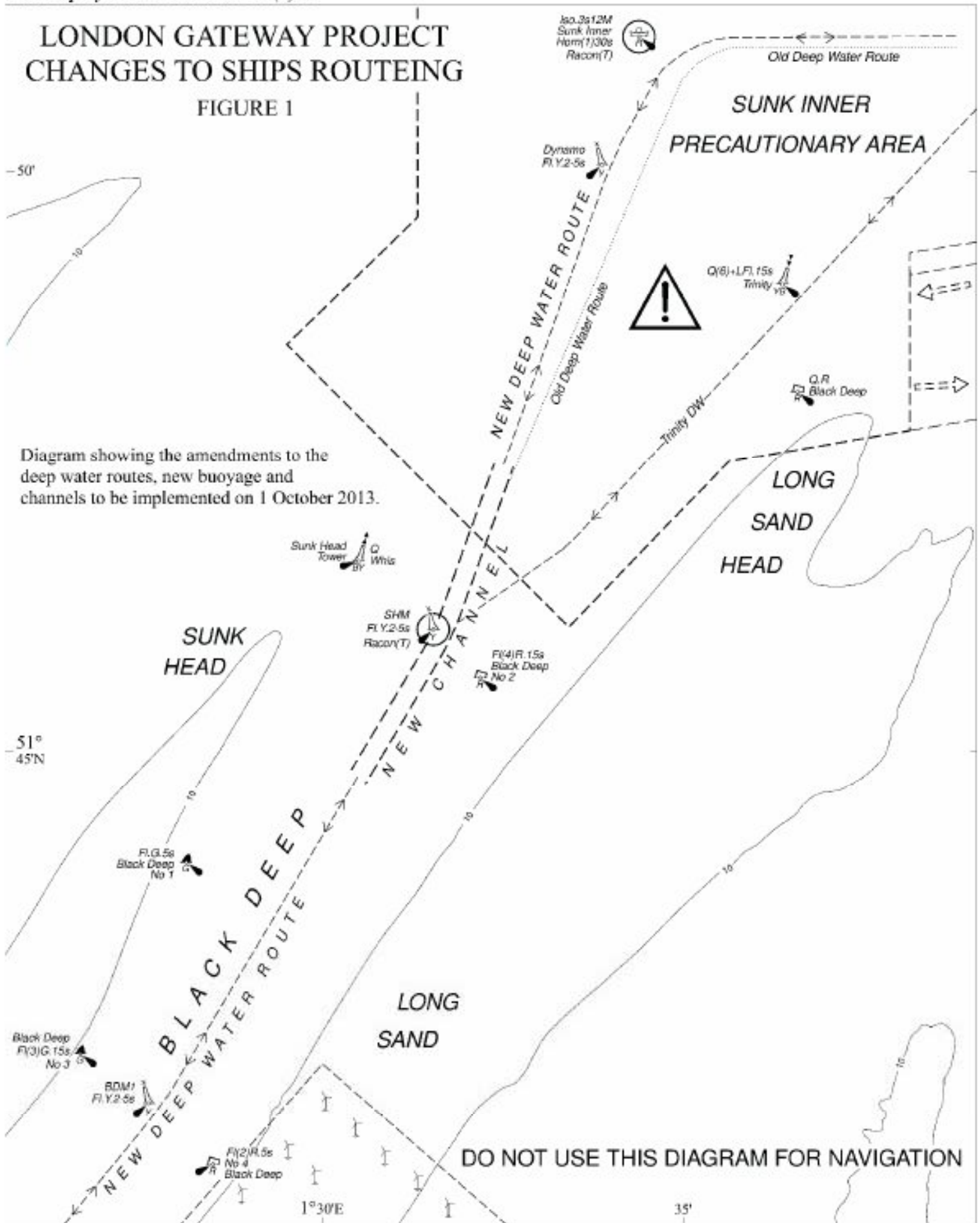


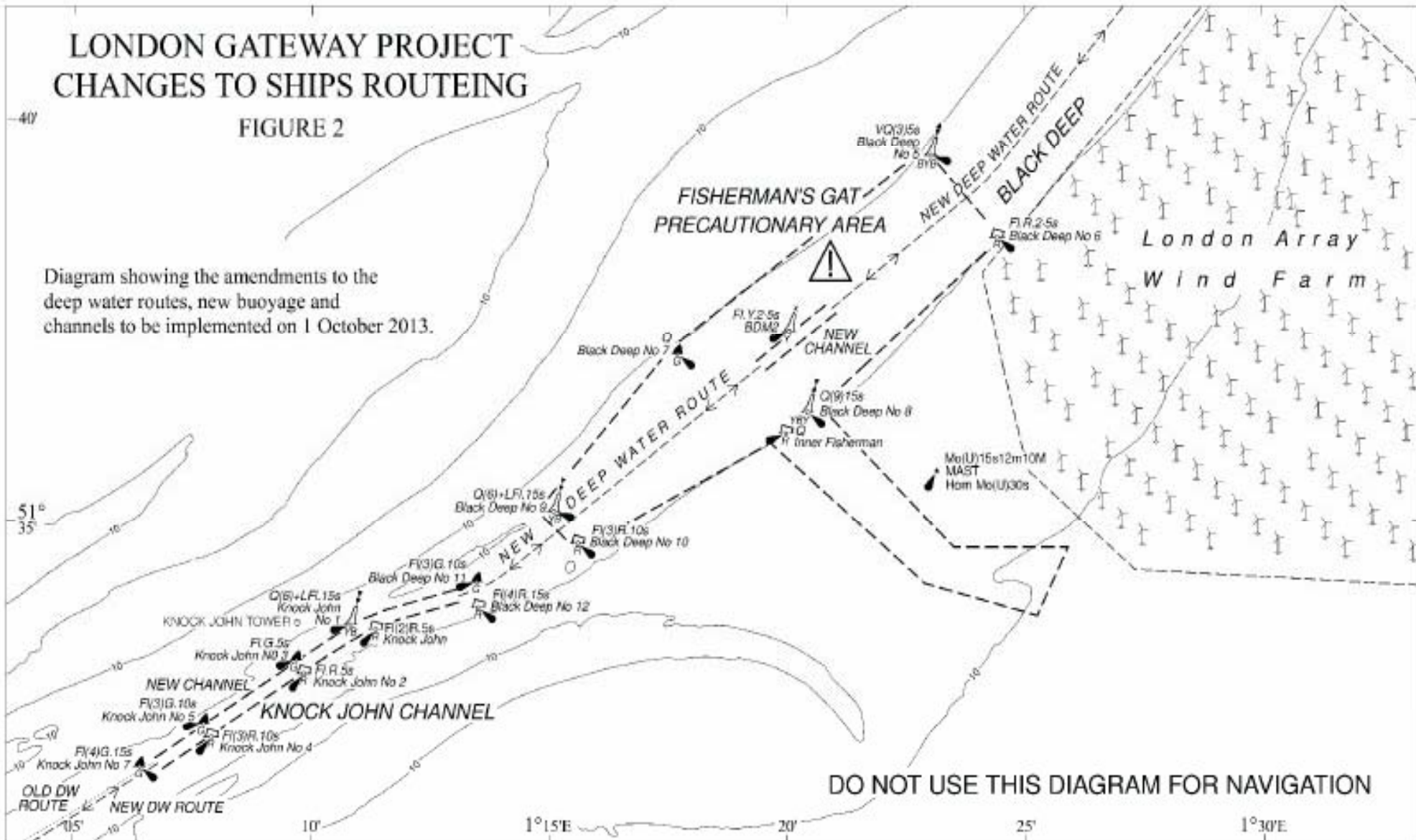
Diagram showing the amendments to the deep water routes, new buoyage and channels to be implemented on 1 October 2013.

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LONDON GATEWAY PROJECT CHANGES TO SHIPS ROUTEING

FIGURE 2

Diagram showing the amendments to the deep water routes, new buoyage and channels to be implemented on 1 October 2013.



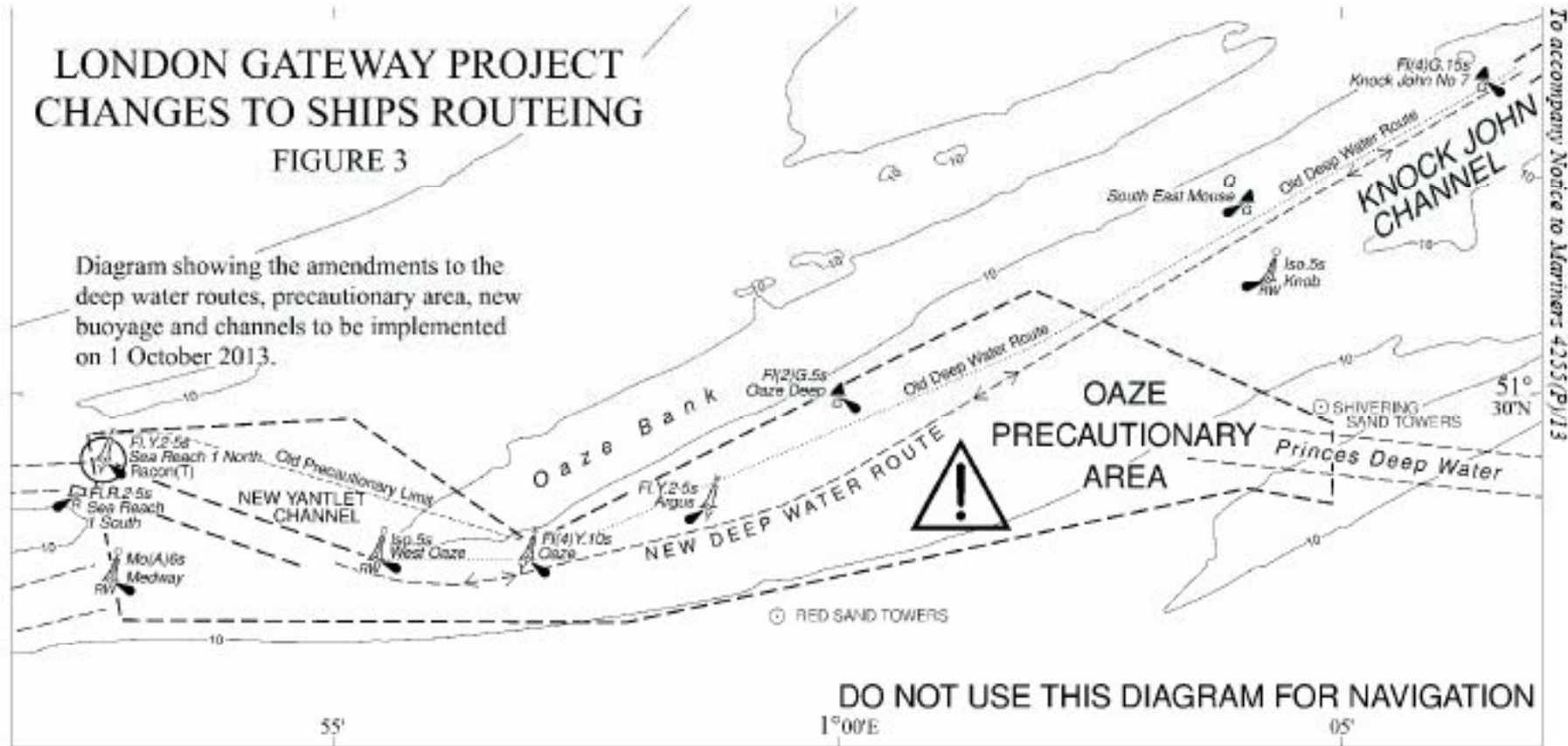
To accompany Notice to Mariners 4235(P)/13

WK/40/13

LONDON GATEWAY PROJECT CHANGES TO SHIPS ROUTEING

FIGURE 3

Diagram showing the amendments to the deep water routes, precautionary area, new buoyage and channels to be implemented on 1 October 2013.



DO NOT USE THIS DIAGRAM FOR NAVIGATION

To accompany Notice to Mariners 4255(P)/13