

## 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 brought about by 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 Notices 14 of 2013 and L16 of 2014, 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. 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 former central marks have been replaced with paired buoys marking either side of the Yantlet Channel. The small craft crossing points are not 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.

## **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 Ooze 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](http://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, the images published by the UKHO in Preliminary Notice 4255(P) of 2013 and the changes notified in PLA NtM L16 of 2014.

**Roger Gaspar**

**West Mersea**

**16<sup>th</sup> September, 2014**

Table showing positions and characteristics when complete










Buoy	Type		Light	Other Characteristic	Latitude	Longitude	Status	Comment
<b>The Yantlet Channel</b>								
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	
Sea Reach 3 North	Starboard buoy		QG		51° 29'.410 N	00° 47'.061 E	Slight move South	11 <sup>th</sup> September, 2014

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	
<b>The Oaze Deep</b>								
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 <sup>st</sup> 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	
<b>The Knock John Channel</b>								
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 <sup>st</sup> 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	
<b>The Black Deep Channel</b>								
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 <sup>st</sup> 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 <sup>st</sup> October, 2013

Table showing positions and characteristics when complete













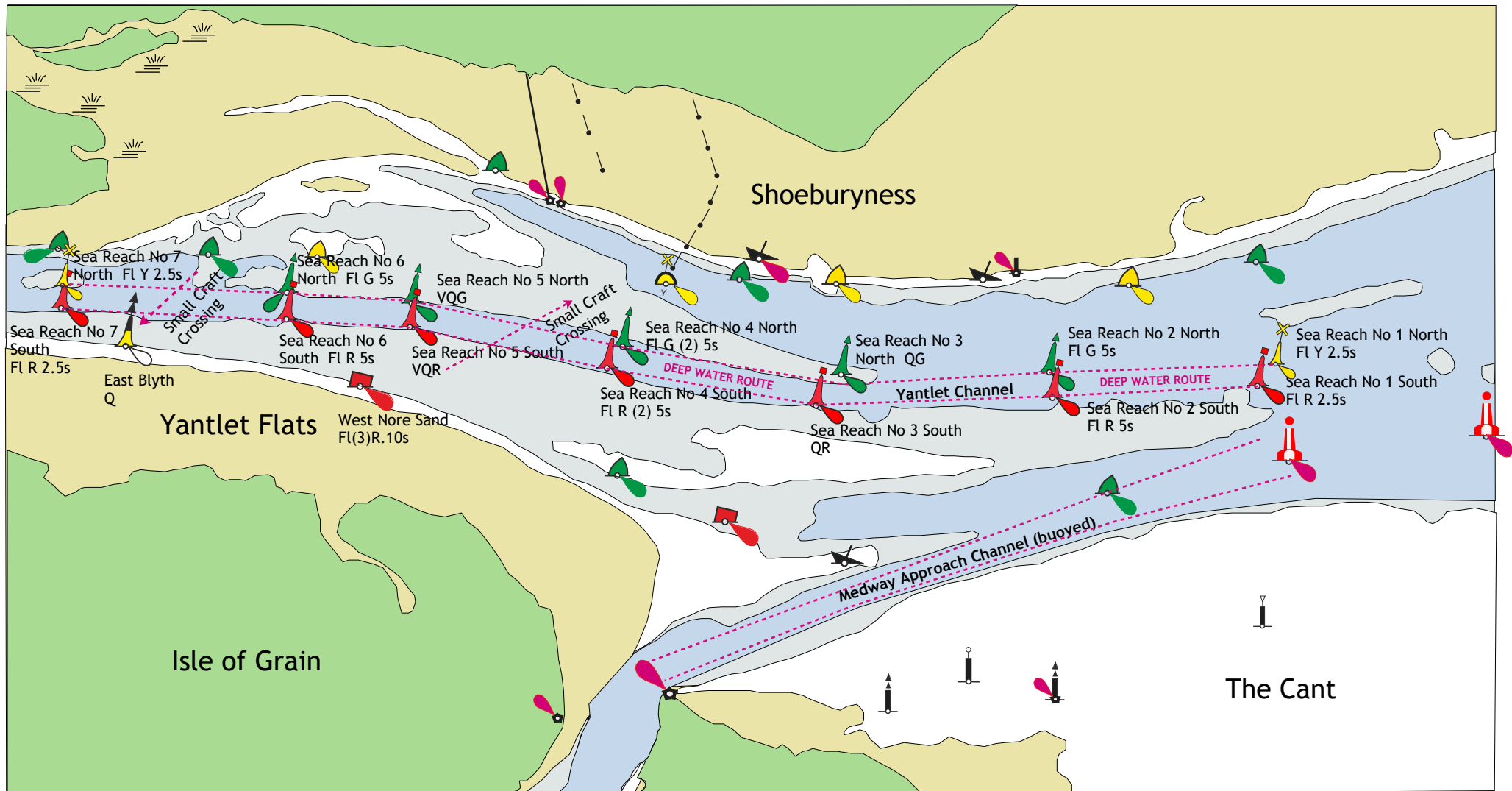
Black Deep No.6	Port Buoy		Fl R. 2.5s				Unchanged	
Black Deep No.5	East Cardinal Buoy		VQ(3) 5s				Unchanged	
BDM1	Pillar special buoy		Fl.Y 2.5 s	Yellow 'X' Topmark	51° 41'.960N	001° 27'.590E	New	On or about 1 <sup>st</sup> October, 2013
Black Deep No.4	Port Buoy		Fl R (2) 5s				Unchanged	
Black Deep 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 <sup>st</sup> 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 <sup>th</sup> 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 <sup>st</sup> 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 <sup>st</sup> August, 2013 Trinity House NtM 15 of 2013 (4 <sup>th</sup> July, 2013)

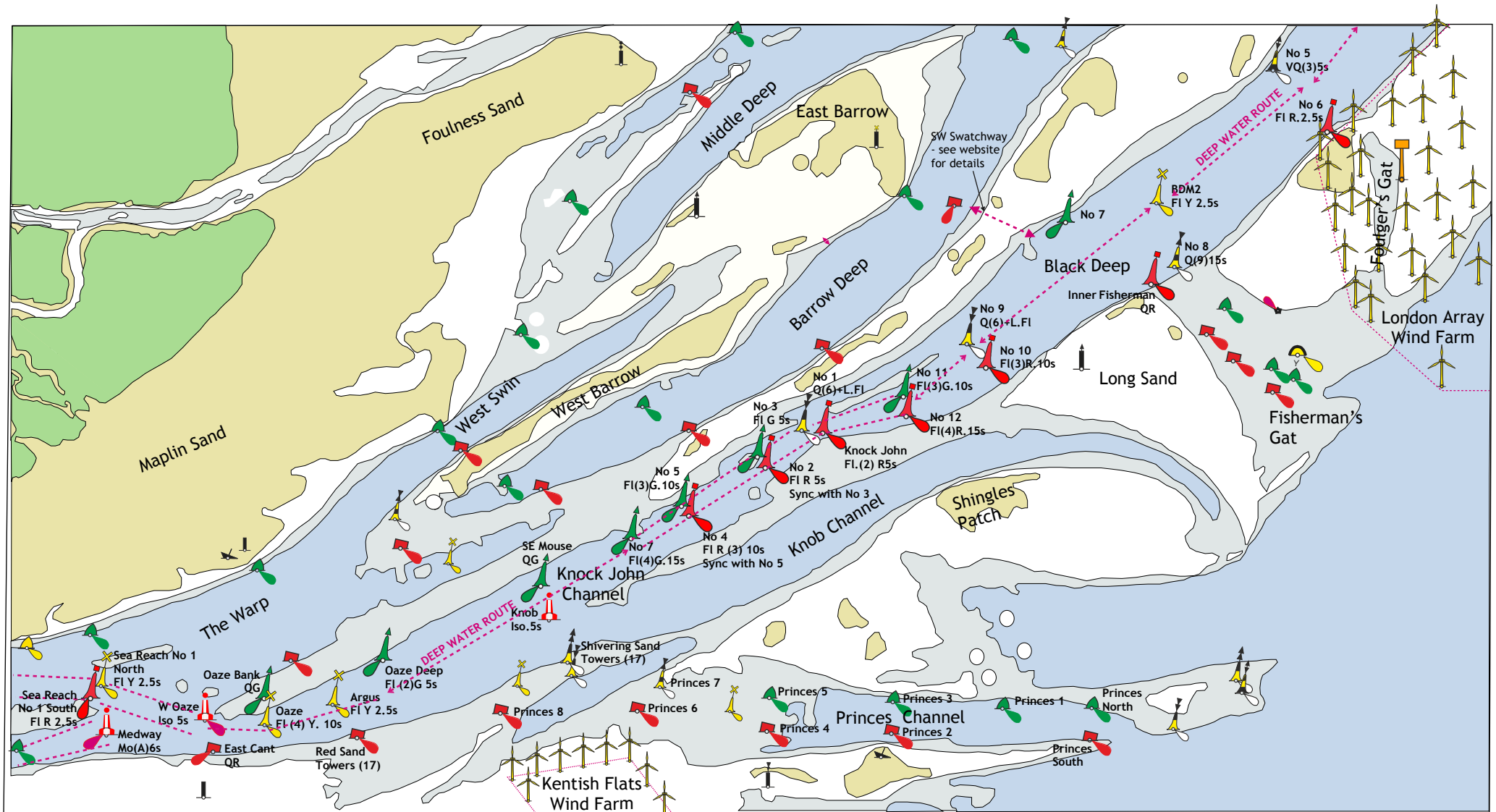


# Sea Reach - New Buoyage, from September 2014



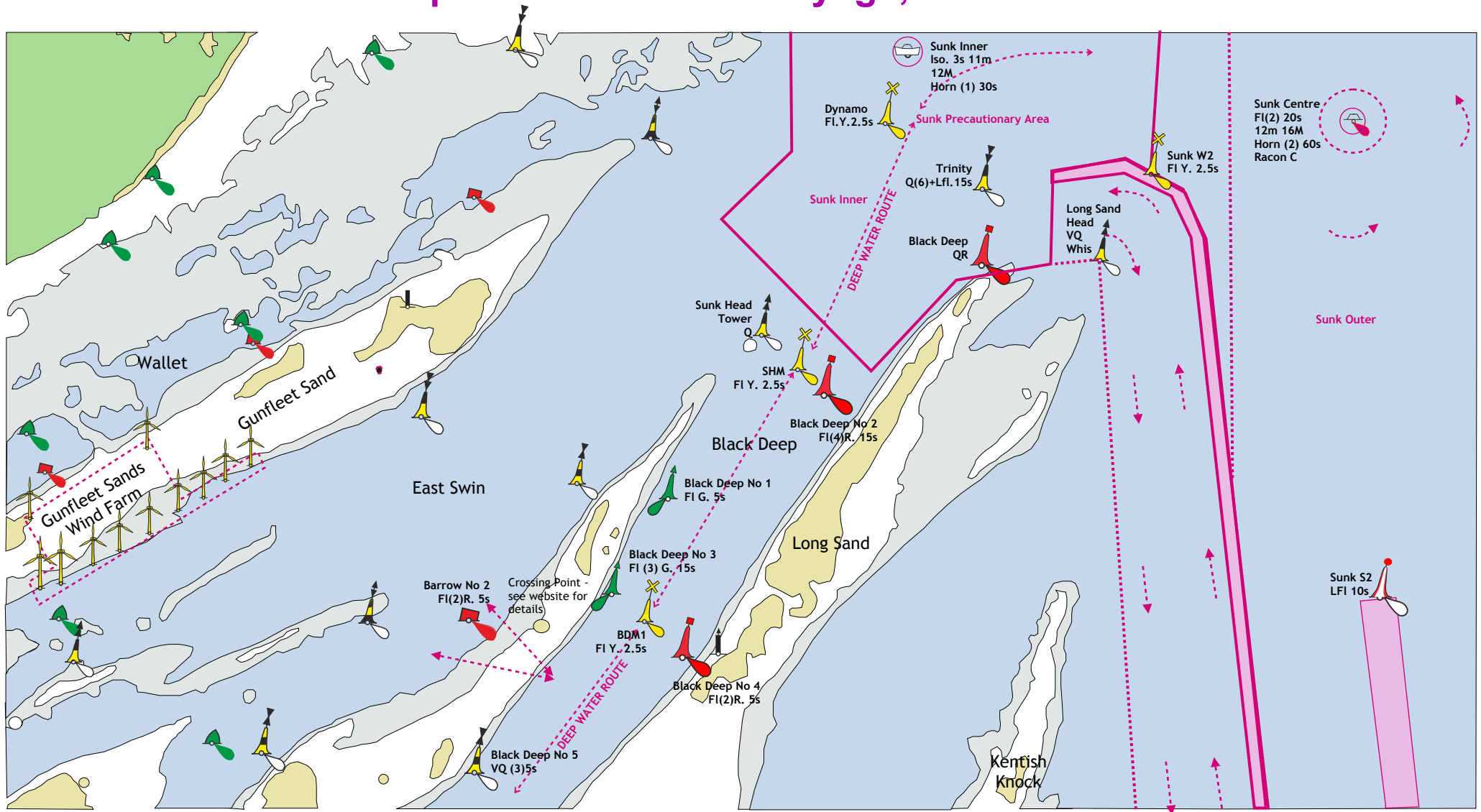
Not to be used for Navigation

# 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