

Offshore Wind and Marine Renewables

02 June 2016 | Issue 12

For 'live' Kingfisher updates of offshore activities, visit www.kis-orca.eu and follow @KingfisherInfo on Twitter

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1. Deployment of Buoys

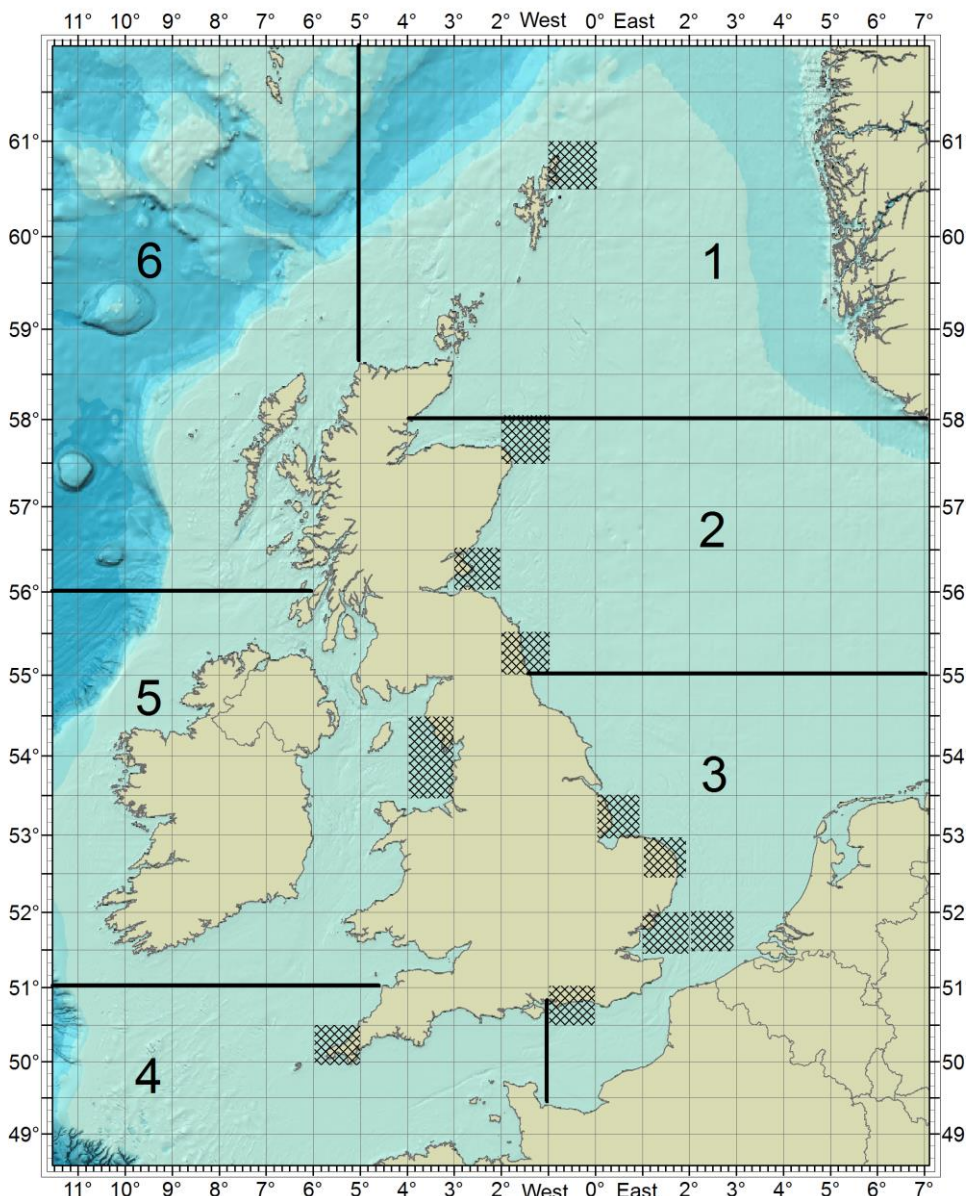
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New Hazards

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Area 1 – Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
New Suspended Wellhead – 16/28a-18	58°05.053'N 01°34.587'E	07 April 2016	Marcelle.wynter@oga.gsi.gov.uk	
Sunken Vessel Majestic	60°45.535'N 001°17.018'W	28 Jan 2016	nick.strachan@uk.bp.com	
Pipeline Span 204/24a Foinaven	60°18.824'N 004°13.793'W 60°18.819'N 004°13.779'W	28 Jan 2016	nick.strachan@uk.bp.com	
Possible Debris from Well 15/21b-21	58°12.510'N 000°07.388'E	28 Jan 2016	kingfisher@seafish.co.uk	

* **The Hazard List is a collection of potential fishing hazards supplied to Kingfisher from across all offshore industries. Potential hazards will be listed for 6 months.**

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Area 1

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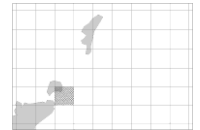
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Seabed Activity

First Published: 05 May 2016 | **Latest Update: 19 May 2016**

EMEC Tidal Site – Fall of Warness Orkney

The multi-cat C-Salvor and C-Odyssey supported by the workboats Uskmoor and Live Wyre will be engaged in marine works in preparation for the installation of the PLAT-O 1 tidal energy converter in the north of the EMEC tidal test site.



The works will include mooring, subsea cable works, diving and crane operations. The period of operations will be from 26th May 2016 to 1st June 2016 and 11th June to 17th June 2016

Coordinates

59°09.200'N 02°49.890'W

For further information: *For further information:* David Thompson, Sustainable Marine Energy Ltd, Tel: +44 1856 879214 email: david.thompson@sustainablemarine.com

Area 2

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Deployment of Buoys

First Published: 10 March 2016 | **Latest Update: 10 March 2016**

Blyth Offshore Demonstrator Project – Deployment of Hydrophones

Blyth Offshore Demonstration Ltd (BODL) will be deploying 11 Hydrophones offshore at Blyth in order to monitor the presence and activity of small cetaceans in and around the proposed turbine development array.



Ref	Coordinates
N1	55°12.528'N 01°27.221'W
N2	55°11.745'N 01°24.166'W
OC1	55°08.601'N 01°26.454'W
OC2	55°08.262'N 01°23.635'W
S1	55°05.349'N 01°24.908'W
S2	55°05.348'N 01°21.204'W
CB	55°10.305'N 01°29.495'W
New 1	55°10.056'N 01°24.286'W
New 2	55°08.587'N 01°29.343'W
New 3	55°06.989'N 01°25.752'W
New4	55°06.659'N 01°22.886'W

The hydrophones (pods) are passive devices consisting of a buoyant plastic tube 67cm in length and 10cm in diameter attached to a weight by a 4m length of line, with the battery powered electronic recording device inside.

The vessel Princess Royal – 2EYM2 will be used to deploy and retrieve the equipment. The period of deployment will be until at least October 2016.

For further information: Simon Prince, Specialist Marine Consultant Ltd, Tel: +44(0)7920 273866 email: simonp@smchse.com

Survey Activity

First Published: 19 May 2016 | **Latest Update: 19 May 2016**

Blyth Offshore Demonstrator Project – UXO Investigations

Mariners are advised that Blyth Offshore Demonstrator Ltd (BODL) will be undertaking UXO investigations within the area of operations.



Company, Vessel & Call Sign	Area Covered		Start Timeframe & Duration
MV Confidante ZQZ15	55°08.846N 001°31.160W	55°08.012N 001°23.415W	24/05/16 For 14 Days
	55°09.042N 001°30.016W	55°06.147N 001°22.683W	
	55°09.140N 001°28.932W	55°05.986N 001°23.874W	
	55°09.135N 001°26.003W	55°07.737N 001°24.661W	
	55°09.447N 001°25.873W	55°08.695N 001°25.500W	
Titan Explorer MZUZ2	55°09.642N 001°24.745W	55°08.593N 001°25.972W	2 nd / 3 rd June For 3 Days
	55°09.405N 001°24.465W	55°08.538N 001°30.933W	

For further information: Simon Prince, Specialist Marine Consultant Ltd, Tel: +44(0)7920 273866 email: simonp@smchse.com

Area 3

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Notice to Fishermen

First Published: 19 May 2016 | **Latest Update: 19 May 2016**

Gunfleet Sands Offshore Wind Farm – Export Cable

Further to previous Notice to Mariners' (NtM)1 which notified mariners of the presence of discrete areas of exposed High Voltage cable above the seabed, more recent bathymetric surveys of this area have been undertaken (Sep/Oct 2015) and the status of these exposures has been updated.



The dynamic nature of the seabed here may result in ongoing re-exposure of parts of the cable. Ongoing surveys will be undertaken

Location	Status of Exposure
51°48.150'N 001°12.722'E	Approx. 11m of cable remains exposed. However, proximity to shore means that risk to mariners is judged to be very low.
51°44.588'N 001°13.459'E	No cable exposure in this area.
51°43.691'N 001°14.210'E	No cable exposure in this area— scour (and cable exposure) at base of offshore substation foundation recently remediated via rock dump campaign.

For further information: Jonny Lewis, AMrinespace Ltd, Tel: 07817644284 email: jonny.lewis@marinespace.co.uk

Notice to Fishermen

First Published: 21 April 2016 | **Latest Update: 21 April 2016**

Triton Knoll Offshore Wind Farm – Anchor Chain & Moorings



Mariners are advised that anchor chain and mooring components remaining within the Triton Knoll Offshore Wind Farm approximately 50 kilometres (km) off the Lincolnshire coast at its nearest point.



Clump Weights & Mooring Lines

Location	Item on Seabed
53°24.768'N 000°57.872'E	500kg Clump Weight
53°24.784'N 000°58.340'E	500kg Clump Weight
53°24.760'N 000°57.423'E	500kg Clump Weight
53°27.667'N 000°54.261'E	500kg Clump Weight
53°27.674'N 000°54.713'E	500kg Clump Weight
53°27.579'N 000°53.799'E	500kg Clump Weight
53°30.084'N 000°42.401'E	500kg Clump Weight
53°30.099'N 000°43.378'E	500kg Clump Weight
53°27.653'N 000°54.261'E	500kg Clump Weight
53°25.032'N 000°57.959'E	80kg Clump Weight

For further information: Mark Barham Tel: +44(0)1493 845 600 email: mark.barham@gardline.co.uk

Graham Moates, Triton Knoll Offshore Wind Farm Ltd, Tel: +44(0)7976 301 963 email: graham.moates@rwe.com

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Seabed Activity

First Published: 02 June 2016 | Latest Update: 02 June 2016

Rampion Offshore Wind Farm – Rock Pad Installation

Please be advised that the Installation vessel Nordnes - PHOG will be installing Rock Pads at the following locations in the Main Array Area commencing operations on 25th May 2016 until further notice.

Name	Coordinates
F12	50°40.392'N 00°13.487'W
F13	50°40.275'N 00°12.886'W
G10	50°40.329'N 00°15.207'W
G11	50°40.198'N 00°14.611'W
G13	50°40.001'N 00°13.341'W



For further information: Gordon Bain (Eon Marine Coordination) +44(0)7787241442 email leadmc@rampionoffshore.com

Seabed Activity

First Published: 10 March 2016 | Latest Update: 01 June 2016

Dudgeon Offshore Wind Farm – Construction Works

Construction activities are in progress at the Dudgeon Offshore Wind Farm and Export Cable Corridor.

Foundation Installation

The OLEG STRASHNOV Heavy Lift Vessel, operated by Seaway Heavy Lifting, will install the 67 Wind Turbine Generator foundations and the substation topside in the wind farm area. The OLEG STRASHNOV will be supported by anchor handling tugs. This operation is ongoing and expected to be completed by end-August 2016.



The Edda Flora will perform seabed intervention at the Offshore Substation Jacket foundation location. This work is planned to be performed in the period early – late June 2016.

Cable Installation

PONTRA MARIS, operated by VBMS, will complete the ducts after cable installation at the export cable landfall site near Weybourne. PONTRA MARIS will start work early June 2016. She will be supported by anchor handling tugs. Operation is expected to be completed late June 2016

The NDEAVOR cable laying vessel, operated by VBMS, will install inter-array cables to connect wind turbines to the offshore substation. This operation is expected to start mid June 2016 and to be completed by mid-September 2016. The Grand Canyon will be performing burial of the Inter Array Cables. This operation is expected to start early August 2016. The vessel Rollingstone will perform rock installation for scour protection around the Substation location. This operation is expected to be performed late July 2016.

Smit Kamara will perform grapnel run for all inter array cable routings between the MP/TP locations. This operation is planned to start late May and finish mid June 2016

Guard vessel

The Adventure will act as a guard vessel to safe guard the wind farm area. During port calls, Advance will be her back-up. Adventure will be on location from end April expected to be completed late October. The export cable shall be spliced and the Rachael S will act as guard vessel at the cable jointing location from mid April 2016.

General

MARINERS ARE HEREBY INFORMED that a statutory construction Safety Zone (exclusion zone) is in place at the wind farm site. This safety zone is defined by:

A 500 metres radius around each wind turbine, offshore sub-station and their foundations whilst work is being performed as indicated by the presence of construction vessels; and A 50 metres radius around each wind turbine, the offshore sub-station platform and associated foundation structures installed, complete or incomplete but waiting to be commissioned as part of the Dudgeon offshore wind farm where personnel are present on, or are being landed on or being taken from, the structures. All vessels will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea.

Navigation Buoys demarcating the Dudgeon Offshore Wind Farm site

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Mark	Name	Coordinates	Status	Flash Character
Special Mark	DOW - SM - N	53°17.631'N 01°23.919'E	Temporary	Fl.Y.5s
North Cardinal	NE - DOW	53°16.277'N 01°26.691'E	Temporary	VQ
East Cardinal	E- DOW	53°14.320'N 01°27.123'E	Temporary	VQ(3).5s
South Cardinal	S-DUDGEON	53°12.470'N 01°25.617'E	Permanent	VQ(6) long Fl.10s
Special Mark	DOW - SM - S	53°14.012'N 01°22.132'E	Temporary	Fl.Y.5s
South Cardinal	SW - DOW	53°15.451'N 01°19.188'E	Temporary	Q(6) long Fl.15s

Dudgeon Cable Corridor Coordinates		Dudgeon Cable Corridor Coordinates	
53° 13.462'N	01° 24.174'E	52° 56.950'N	01° 08.740'E
53° 15.230'N	01° 20.360'E	52° 57.230'N	01° 09.600'E
53° 14.140'N	01° 20.820'E	52° 59.220'N	01° 11.920'E
53° 12.990'N	01° 20.370'E	53° 00.430'N	01° 13.410'E
53° 10.090'N	01° 18.540'E	53° 01.760'N	01° 15.080'E
53° 02.750'N	01° 13.780'E	53° 09.580'N	01° 20.190'E
53° 01.720'N	01° 13.040'E	53° 12.750'N	01° 22.120'E
53° 01.490'N	01° 12.230'E	53° 13.420'N	01° 22.120'E
53° 01.300'N	01° 07.830'E	53° 13.462'N	01° 24.174'E
52° 57.100'N	01° 07.500'E		

GUARD VESSEL LOCATION

Cable splicing location is defined by the cable end and clump weights at the following locations:

Cable End: 53° 01.984' N 001° 14.229' E Clump Weight: 53° 02.009' N, 001° 14.244' E
 Holdback anchor / Marker buoy for initiation clump weight
 Clump Weight: 53° 01.853' N, 001° 14.048' E Cable End: 53° 01.876' N, 001° 14.082' E

For further information: *Stig J. Andersen, Statoil ASA* Tel: +47 95243448 email: stja@statoil.com

Seabed Activity

First Published: 19 November 2015 | Latest Update: 24 May 2016

Race Bank Offshore Wind Farm – Construction Work



NOTICE IS HEREBY GIVEN that commencing on the 7th February 2016 construction work will commence on the Race Bank Offshore Wind Farm.

The Entire Fishing Clearance Zone will be CLOSED to the fishing industry 23:59 Hrs on 07 June 2016

Work will consist of cable laying, foundation and WTG & Sub Station installation, surveys and other associated works to enable the development of the Wind Farm. The works are anticipated to run until 31st August 2018.

Demarcation buoys deployed on the 5th February 2016 will mark the main array at the following locations:

North Cardinal Buoy	53° 20.333' N 0° 46.096' E	Special Mark Buoy	53° 12.985' N 0° 53.459' E
North Cardinal Buoy	53° 20.291' N 0° 49.434' E	Special Mark Buoy	53° 14.610' N 0° 48.460' E
Special Mark Buoy	53° 17.533' N 0° 50.975' E	Special Mark Buoy	53° 17.764' N 0° 45.822' E
Special Mark Buoy	53° 15.696' N 0° 56.311' E		

ALL VESSELS ARE REQUESTED to navigate with caution when in the vicinity of construction vessels. Please keep a minimum of 500 meters from vessels in operation. All vessels working within the site will exhibit the lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea and will maintain a listening watch on IMM VHF 16.

MARINERS ARE ADVISED to monitor VHF 16 when navigating in the vicinity of construction vessels.

For further information: *Rebecca Goff, DONG*, Tel: 0044 776 170914 rebgo@dongenergy.co.uk

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Seabed Activity

First Published: 07 April 2016 | Latest Update: 31 May 2016

Galloper Offshore Wind Farm – Investigation & Explosive Ordnance



Offshore Wind Farm. Initial works will commence within the export cable corridor towards the coastline at Sizewell and will then progress towards the Galloper Offshore Wind Farm area.



Please be advised that from 1st May 2016 until further notice, identified target investigation and EOD works will be supported by a further vessel at Galloper Offshore Wind Farm.

"Noordhoek Pathfinder – PBYN" shall be joining "Siem N-Sea" and "Neptunus" in carrying out these operations. Noordhoek Pathfinder shall be operating on DP from the 14m contour (approx. 4km from the shore) out towards the Galloper Offshore Wind Farm.

The vessel requests a 500m safety radius with permission to enter being given direct via the vessel after initial contact on VHF 16.

The works will involve the vessels investigating identified targets in order to determine if they are Unexploded Ordnance (UXO). If confirmed as UXO, further updates will be provided prior to the targets being detonated by a specialist contractor.

Identified UXO's

52°00.938'N	01°54.450'E
52°03.769'N	01°48.303'E
52°03.233'N	01°48.840'E
52°03.056'N	01°49.351'E
52°05.309'N	01°47.365'E
52°05.599'N	01°47.263'E
52°09.928'N	01°42.815'E
52°09.439'N	01°43.079'E
51°45.449'N	02°01.573'E
51°58.559'N	02°01.062'E
51°59.504'N	01°59.740'E
51°59.336'N	01°58.336'E

In the interim period prior to disposal all vessels are advised to avoid the item's location by a 300m radius from the position highlighted above. A larger safety distance will be implemented during positive EOD operations and this will be notified in due course.

Kingfisher Awareness Fiver: Galloper Offshore Wind Farm

For further information: Oliver Harris, Gardline Tel: +44(0)1493 845 600 email: oliver.harris@gardline.com

Seabed Activity

First Published: 21 April 2016 | Latest Update: 21 April 2016

Hornsea Met Mast – Loss of communication

Communications with the Hornsea met mast are currently down therefore the operation of the deck level NAVIGATION LIGHTS and top level AVIATION LIGHTS (110m) cannot be verified.



The issue will be corrected as soon as possible, but all mariners are advised to mark the position of this mast on their charts/plotters and take particular effort to keep clear until informed that the issue has been corrected.

Hornsea Met Mast (HS MM1)	53°53.149'N 001°59.497'E
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For further information: Niall Connell, DONG, Tel: +44 7769 838960 email: XNCON@dongenergy.co.uk

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Seabed Activity

First Published: 19 May 2016 | Latest Update: 19 May 2016

London Array Offshore Wind Farm – Wave Buoy Deployment

Please be advised that an additional wave rider buoy has been deployed within the area of London Array Offshore Wind Farm, designation – Long Sand Middle



The London Array Offshore Wind Farm is located approximately 20km from the Kent and Essex coasts in the outer Thames Estuary. The wind farm consists of 175 turbines delivering a capacity of 630MW. Two offshore substations export the generated electricity to shore based facilities from where it is distributed to the National Grid. The wind farm is located between two sandbanks, Long Sand and Kentish Knock and has varying water depths across the site ranging from 0 to 23m LAT.

New Wave Buoy

Identity	Coordinates	Light
Long Sand (Middle)	51°40.828'N 01°31.177'E	Fl (5) Y 20s 2nm

Description of wave rider buoy: Yellow spherical buoy, transparent top dome with solar panels and flashing light.

Existing Wave Buoy

Identity	Coordinates	Light
Knock Deep (North)	51°37.064'N 01°30.364'E	Fl (5) Y 20s 2nm

The Knock Deep North wave rider buoy is protected by 2 guard buoys stationed approximately 50 - 100 meters to the North and South.

Identity	Coordinates	Light
Guard Buoy (North)	51°37.105'N 01°30.467'E	Fl (5) Y 20s 2nm
Guard Buoy (South)	51°37.058'N 01°30.307'E	Fl (5) Y 20s 2nm

Description of wave rider buoy: Yellow spherical buoy, transparent top dome with solar panels and flashing light. Description of guard buoys: Yellow spar with flashing light and radar reflector.

For further information: Duty Marine Coordinator, Tel: +44 1843 855 795 email: marinecoordinators@londonarray.com

Seabed Activity

First Published: 03 December 2015 | Latest Update: 25 May 2016

Rampion Offshore Wind Farm – UXO, Buoys and Safety Zones

The Vessel MV Erica will sail to Wave Rider no 2 at the Rampion Offshore Wind Farm site.

Name	Coordinates
Wave Rider 1	50°45.405'N 00°19.312'W
Wave Rider 2	50°40.203'N 00°13.348'W
Wave Rider 3	50°39.137'N 00°19.543'W



Confirmed UXO 2 x 500 pound British bombs have been deployed and mariners are advised to keep a 500m exclusion/safety zone around the marker.

Once the UXO has been retrieved or disposed of the buoys will be removed and an updated NTM will be distributed.

Name	Coordinates
UXO No 1	50°47.511'N 00°19.173'W
UXO No 2	50°47.501'N 00°19.162'W
Special Mark No1	50°47.474'N 00°19.164'W

The current lattice structure has failed and will be replaced in due course.

Met Mast	Coordinates
	50°41.287'N 00°20.594'W

Special Yellow marker buoys with 2-3nm yellow light which flashes 1 sec every 5 seconds.

Ongoing Works will take place when weather permits to commission the AIS on the cardinals.

Cardinal Buoy Positions	Cardinal Buoy Positions
50°41.375'N 00°21.901'W	50°39.170'N 00°11.365'W
50°42.072'N 00°17.095'W	50°38.399'N 00°16.149'W
50°42.769'N 00°12.284'W	50°37.629'N 00°20.928'W
50°41.051'N 00°11.310'W	50°39.439'N 00°21.931'W

Safety Zone Application

- Rampion Offshore Wind Farm - Application of Safety Zones during construction

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- The Secretary of State Mr Kieth Welford has approved the Application of Safety Zones on the project.
- A Statutory 500m Safety Zone around all structures where a construction vessel is present.
- A Statutory 50m Safety Zone around all structures including the Offshore Sub Station whilst personnel are working on said locations

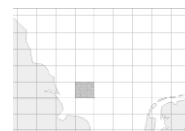
For further information: Gordon Bain (Eon Marine Coordination) +44(0)7787241442 email leadmc@rampionoffshore.com

Survey Activity

First Published: 19 May 2016 | Latest Update: 19 May 2016

Hornsea Project Two Offshore Wind Farm – Survey

Mariners are advised that Hornsea Project Two will be carrying out geophysical investigations within the area of operations. The planned geophysical investigations will include utilising an array of hull mounted and towed equipment including sub-bottom profiler, multi-beam echosounder, magnetometer and side scan sonar.



Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	
	53°55.540'N 001°49.405'E 53°55.432'N 001°47.572'E 53°55.766'N 001°40.979'E 53°55.845'N 001°39.393'E 53°59.572'N 001°39.781'E 54°00.484'N 001°41.741'E 54°00.496'N 001°41.910'E 54°00.486'N 001°45.888'E 54°00.144'N 001°50.869'E 53°59.084'N 002°01.506'E 53°58.307'N 002°05.771'E	53°57.637'N 002°06.467'E 53°57.431'N 002°06.494'E 53°57.266'N 002°06.242'E 53°56.351'N 002°04.843'E 53°54.897'N 002°01.800'E 53°55.033'N 001°58.936'E 53°54.686'N 001°56.497'E 53°55.439'N 001°52.232'E 53°55.838'N 001°51.476'E 53°55.540'N 001°49.405'E	
	53°29.042'N 000°19.704'E 53°29.771'N 000°24.606'E 53°29.420'N 000°24.785'E 53°28.673'N 000°19.866'E		
	53°37.825'N 000°52.225'E 53°38.958'N 000°56.956'E 53°39.351'N 000°59.949'E 53°41.501'N 001°06.505'E	53°43.666'N 001°15.812'E 53°42.650'N 001°16.505'E 53°38.337'N 001°02.862'E 53°36.856'N 000°52.984'E	
	53°45.614'N 001°26.109'E 53°46.562'N 001°32.935'E 53°45.329'N 001°33.420'E 53°44.416'N 001°26.567'E		

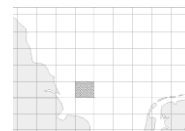
For further information: Nick Garside & Courtney French, Tel: +44(0)7538 827013 email: nick.garside@live.co.uk Tel: +44(0)7702710178 email: Courtney@brownmay.com

Survey Activity

First Published: 07 April 2016 | Latest Update: 08 April 2016

Hornsea Project One Offshore Wind Farm – Survey

Mariners are advised that Hornsea Project One will be carrying out geotechnical investigations in April for the proposed Hornsea Project One Offshore Wind Farm located within the UK Sector of the North Sea.



Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	
Fugro MV Bucentaur C6SU4 MV Greatship Manisha C6SU4	53°58.703'N 001°44.531'E 53°55.774'N 001°47.797'E 53°56.381'N 001°51.957'E 53°55.522'N 001°52.905'E 53°55.627'N 001°53.635'E 53°55.389'N 001°55.338'E 53°55.136'N 001°56.177'E 53°55.590'N 001°59.349'E 53°55.042'N 001°59.763'E 53°55.378'N 002°02.237'E 53°56.272'N 002°01.254'E 53°56.776'N 002°05.067'E	53°57.208'N 002°04.540'E 53°57.408'N 002°06.112'E 53°50.167'N 002°13.953'E 53°49.238'N 002°11.614'E 53°49.976'N 001°59.913'E 53°49.982'N 001°58.997'E 53°50.085'N 001°38.974'E 53°55.155'N 001°39.867'E 53°56.054'N 001°41.002'E 53°56.494'N 001°43.760'E 53°58.297'N 001°41.780'E 53°58.703'N 001°44.531'E	10/04/16 For 8 Weeks

For further information: Nick Garside & Courtney French, Tel: +44(0)7538 827013 email: nick.garside@live.co.uk Tel: +44(0)7702710178 email: Courtney@brownmay.com

Area 3

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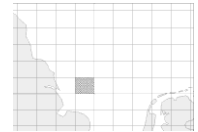
For 'live' Kingfisher updates of offshore activities, visit www.kis-orca.eu and follow [@KingfisherInfo](https://twitter.com/KingfisherInfo) on Twitter

Survey Activity

First Published: 05 May 2016 | **Latest Update: 05 May 2016**

Hornsea Project Three Offshore Wind Farm – Survey

Mariners are advised that Hornsea Project Three will be carrying out geophysical investigations located within the UK Sector of the North Sea off the coast of East Yorkshire.



Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration
Dong Energy	1. 53°40.866'N 002°48.241'E	09/05/16 For 10 Weeks
MV Neptune	2. 53°48.198'N 002°23.461'E	
TFNX	3. 53°59.671'N 002°10.976'E	
MV Northern Wind SHLQ	4. 54°00.405'N 002°41.223'E	

For further information: Julian Carolan, DONG, Tel: 0207 811 5471 email: julca@dongenergy.co.uk

Area 4

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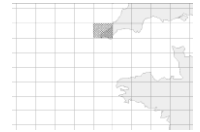
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Deployment of Buoys

First Published: 02 June 2016 | **Latest Update: 02 June 2016**

Wave Hub – Subsea Cable Installation

James Fisher Marine Services are scheduled to undertake subsea cable installation works using offshore construction vessel Polar Onyx-LAQD7 at the Wave Hub offshore site. Survey vessel MTS Xplorer-VSQN2 will also support the works



The works planned (installation of 6km of cables, associated connectors and rock bag cable stabilisation) are all to be completed within the following site:

Boundary Point	Coordinates
NE	50°22.496'N 05°37.040'W
SE	50°20.768'N 05°36.611'W
SW	50°20.707'N 05°37.211'W
NW	50°22.435'N 05°37.640'W

Wave Hub is the world's largest and most technologically advanced facility for pre-commercial testing of wave energy device arrays. The objective of this cable installation project is to extend the existing four short subsea cable tails out from within the charted Wave Hub Safety Zone to the four Wave Hub berths to enable Developer connections.

The offshore works are now scheduled to be completed (subject to weather) from 28th May 2016 to 13th June 2016.

The vessel will be restricted in ability to manoeuvre and mariners are requested to give a wide berth (>1 NM).

Any fishing gear laid within the vicinity of this site should be cleared if possible before works commencement.

For further information: Julius Besterman, Wave Hub, Tel: 01736 800291 email: Julius.besterman@wavehub.co.uk

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Seabed Activity

First Published: 02 June 2016 | Latest Update: 02 June 2016

West of Duddon Sands OWF – Scour protection rock dumping

Additional rock protection is to be laid at a number of locations along the WDS export cable at the below locations. This construction works will be begin on approximately 20th June.



The vessel requests a 500m safety radius with permission to enter being given direct via the vessel after initial contact on VHF 16.

Subsea Cable Length From	Subsea Cable Length To
53°57.912'N 003°06.677'W	53°57.910'N 003°06.718'W
53°57.907'N 003°06.772'W	53°57.906'N 003°06.796'W
53°58.022'N 003°07.817'W	53°58.033'N 003°07.872'W
53°58.062'N 003°08.026'W	53°58.068'N 003°08.062'W
53°58.073'N 003°08.086'W	53°58.080'N 003°08.122'W
53°58.173'N 003°08.565'W	53°58.179'N 003°08.592'W
53°58.363'N 003°09.496'W	53°58.366'N 003°09.513'W
53°58.372'N 003°09.550'W	53°58.375'N 003°09.567'W
53°58.388'N 003°09.647'W	53°58.410'N 003°09.765'W
53°58.416'N 003°09.798'W	53°58.437'N 003°09.878'W
53°58.453'N 003°09.947'W	53°58.461'N 003°09.982'W
53°58.465'N 003°10.002'W	53°58.469'N 003°10.017'W
53°58.471'N 003°10.029'W	53°58.485'N 003°10.087'W
53°58.701'N 003°11.020'W	53°58.705'N 003°11.042'W
53°58.709'N 003°11.065'W	53°58.716'N 003°11.107'W
53°58.745'N 003°11.257'W	53°58.751'N 003°11.287'W
53°58.757'N 003°11.313'W	53°58.767'N 003°11.355'W
53°58.771'N 003°11.376'W	53°58.788'N 003°11.451'W
53°58.793'N 003°11.473'W	53°58.799'N 003°11.498'W
53°58.801'N 003°11.508'W	53°58.806'N 003°11.531'W
53°58.820'N 003°11.626'W	53°58.824'N 003°11.655'W
53°58.827'N 003°11.682'W	53°58.832'N 003°11.709'W
53°58.931'N 003°12.421'W	53°58.934'N 003°12.435'W
53°59.057'N 003°13.411'W	53°59.060'N 003°13.437'W
53°59.073'N 003°13.545'W	53°59.079'N 003°13.591'W
53°59.176'N 003°14.400'W	53°59.180'N 003°14.427'W
54°00.476'N 003°17.541'W	54°00.484'N 003°17.555'W
54°00.491'N 003°17.567'W	54°00.502'N 003°17.585'W
54°01.116'N 003°18.632'W	54°01.126'N 003°18.662'W
54°01.138'N 003°18.700'W	54°01.144'N 003°18.725'W
54°01.150'N 003°18.751'W	54°01.161'N 003°18.814'W
53°58.373'N 003°09.717'W	53°58.376'N 003°09.738'W
53°58.489'N 003°10.234'W	53°58.501'N 003°10.277'W
53°59.510'N 003°01.466'W	53°59.404'N 003°01.691'W
54°00.294'N 002°57.742'W	54°00.257'N 002°58.038'W

[Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm](#)

For further information: Gavin Scarff, DONG, [Tel:+44 20 7811 5253](tel:+442078115253) email: gavsc@dongenergy.co.uk

Area 5

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Seabed Activity

First Published: 05 May 2016 | **Latest Update: 01 June 2016**

Walney Extension (WOWO3-4) Export Cable – Ducts at Middleton Sands

Work on preparing the landfall positions at the intertidal zone off Middleton Sands in readiness for the proposed WALNEY EXTENSION (WOWO3-4) WIND FARM EXPORT CABLES. There is a slight delay with the installation of two ducts under the saltmarsh at Middleton sands.



The two ducts of approximately 450m in length now in transit by sea by the Tug 'SCHWATZENBEK' are currently in the South Minch and are expected to arrive on site off Middleton Sands on Saturday 4th June, further information regarding the timing will be issued later.

The ducts will transit South through the Irish Sea (North Channel) and then South and East through the Eastern Irish Sea passing to the north east of the Isle of Man and to the south of the existing WALNEY and WEST of DUDDON SANDS OFFSHORE WIND FARMS and into the Lune Deep / Heysham Lake before offloading at Middleton sands in Morecambe Bay.

The ducts will be temporarily stored on the beach at Middleton sands in close proximity to Mean High Water prior to installation.

During transit/delivery the ducts will be appropriately buoyed and marked and fitted with radar reflectors, and to mitigate any navigational/collision risk there will also be a standard yellow ribbon painted on each at 5 meter intervals in order to increase visibility.

To mark the end of the tow there will be a continuous quick flash light with an additional radar reflector as well as an A7 Polyform marker buoy.

[Kingfisher Awareness Flyer: Walney 1 & 2 Offshore Wind Farm](#)

For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Seabed Activity

First Published: 19 November 2013 | **Latest Update: 27 May 2016**

Robin Rigg Offshore Wind Farm – Decommissioning Works

The 12 meter Catamaran 'NORFOLK SWIFT' is now in the Solway and approaching the ROBIN RIGG WIND FARM to start the Bathymetric Survey at the two Turbine locations H04 and A02. Survey should last 1 Week



Although this survey is not expected to interfere with any other vessel a wide berth of at least 500 meters is requested at all times whenever 'NORFOLK SWIFT' is on site.

Fishermen are requested and advised not to set any gear close to any of the above mentioned Turbine positions in the Robin Rigg Wind Farm during this period of maintenance work.

For more information on the boundaries of the 50 metre Advisory Safety Zones, ensure that you have the latest KIS-ORCA information installed. This can be downloaded from www.KIS-ORCA.eu.

A yellow and lit marker buoy, 1 meter in diameter at the waterline with characteristics fl. y 5s has been dropped to mark the position of a temporary underwater obstruction at the partially removed turbine A1 at the following position:

54°46.3'N 03°42.10'W

[Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm](#)
[Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm](#)

For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Area 5

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Seabed Activity

First Published: 17 December 2013 | **Latest Update: 26 May 2016**

West of Duddon, Walney 1 & 2, Barrow & Burbo – Diving Operations

A programme of underwater inspections that will involve extensive Diving Operations at selected Turbine and Sub-Station locations at all five of the DONG operated Wind Farms in the Eastern Irish Sea.

WEST of DUDDON SANDS Turbines to be inspected
A01, D03, D05, D06, E08, E11, F01, G03, G11, H07, H10, H13, I04, I06, I07, J01, J06, J09, J12 and Z01 (Please note Z01 refers to the Sub-Station)

DIVERS will access Turbine position according to the conditions of weather and tide at the time and because of this fishermen are requested and advised to avoid setting any pots within 500 meters of any of the above mentioned Turbines during this period, if in doubt please contact me.

The Dive Support Vessel will be 'HBC ACHIEVER' and this vessel will display the ALPHA FLAG from the mast as well as on a wooden board attached to either side of the bridge which will be illuminated at night. (please see attachment)

A 500 meter safety exclusion zone is requested around 'HBC ACHIEVER' at all times whenever this vessel is observed to be in any of the above mentioned Wind Farms.

A listening watch will be kept on VHF Channels 16 & 12 and 'HBC ACHIEVER' can be contacted for information relating to DIVING OPERATIONS only

Fishermen using pots are requested to note the Turbines to be inspected in each of the Wind Farms in the list below and remove their gear away from any Turbine on that list, to at least 500 meters, when informed that 'HBC ACHIEVER' will be operating in that Wind Farm.

[Kingfisher Awareness Flyer: Walney 1 & 2 Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: Burbo](#) [Kingfisher Awareness Flyer: Barrow](#)



For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Seabed Activity

First Published: 17 December 2013 | **Latest Update: 02 May 2016**

Walney 2 Offshore Wind Farm – UXO Survey

The section of replaced cable has now been buried to depth of 2 – 3 meters and all of the vessels involved have now de-mobilised from this project.

A Bathymetric survey of the recently repaired and replaced section of export cable at the Walney 2 Wind Farm is shortly to be carried out by the Briggs Marine 18m survey vessel 'Mersey Guardian' Survey to start Saturday 7th May 2016 for 1 Day.

Extension

A survey to detect any UXO's both within the proposed Walney Extension Wind Farm Site (WOWO3 – WO4) and along the whole length of the export cable route is ongoing.

This survey will be carried out by three vessels: 'Fugro Helmer', 'RV Discovery'

[Kingfisher Awareness Flyer: Walney 1 & 2 Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm](#)



For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

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Deployment of buoys

First Published: 24 March 2016 | **Latest Update: 21 May 2016**

Burbo Bank 2 (Extension) – Scour & Rock Placement

The Scour Rock Placement vessel 'Ham 602' is on site at the Burbo Bank 2 (Extension) Wind Farm Site and continuing with the laying of Scour and Filter Stone placement at each Turbine position.



A 500 meter safety exclusion zone is requested around Ham 602' at all times while this vessel is on site

Three bulk carriers (self-unloading rock carriers) 'MV Fluvius Taw', 'MV Liamare' and 'MV Stavfiord' will be on site periodically during this time, transiting and anchoring within the wind farm perimeter, in order to carry out the transfer of rock material to 'Ham 602' before returning to Norway to re-load.

A 500 meter safety exclusion zone is requested around all of these vessels while on site and in particular when it can be observed that there is a transfer of rock material taking place from one of the carriers to 'Ham 602'

Two Wave Buoys and one Acoustic Recorder Buoy have been deployed at the proposed Burbo Bank 2 (Extension) Wind Farm Site.

Buoys	Location
Wave Buoy	53°29.101'N 003°15.530'W
Wave Buoy	53°30.114'N 003°21.688'W
Acoustic Recorder Buoy	53°28.999'N 003°15.530'W

A series of CARDINAL and SPECIAL MARKER BUOYS are to be deployed at the proposed BURBO BANK 2 (EXTENSION) WIND FARM SITE to mark what will become the construction area and all mariners are requested and advised to mark the positions of these Buoys on their charts/plotters.

The Buoys are scheduled to be deployed on or around Friday 1st April and will remain in place to mark the construction site until the Wind Farm is built and fully commissioned

Buoy Ref.	Location	Type
NM1	53°30.343'N 003°22.929'W	North Cardinal QFI
NM2	53°30.371'N 003°18.284'W	Special mark FI Y 2.5s
NM3	53°30.390'N 003°14.040'W	Special mark FI Y 5s
NM4	53°27.610'N 003°11.625'W	South Cardinal Q(6) + L FI 15s
NM5	53°27.604'N 003°15.159'W	Special mark FI Y 2.5s
NM6	53°27.600'N 003°18.774'W	South Cardinal VQ(6) + L FI 10s
NM7	53°28.970'N 003°21.001'W	Special Mark FI Y 2.5s

For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Offshore Wind and Marine Renewables

Extra...

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Local Awareness Charts

Chart	Area	Location	Turbines	Developer	Completed	Link
Barrow	5	7km dudgeon Island	30	DONG Energy	1 Jul 2006	Download
Burbo Bank	5	5.2km Crosby	25	DONG Energy	27 Oct 2007	Download
Galloper	3	27km off Suffolk Coast	56	Galloper Wind Farm Ltd	-	Download
Greater Gabbard	3	26km off Orford, Sufflk	140	SSE & RWE Npower Ren	7 Sept 2012	Download
Gwynt y Mor	5	13km off N Wales Cst	160	RWE Innogy / SWM / Siemens	18 Jun 2015	Download
Gunfleet Sands 1, 2 & 3	3	8.5km off Clacton-On-S	50	DONG Energy	19 April 2010	Download
Humber Gateway	3	8km off Holdrns Cst	73	E.ON UK	5 Jun 2015	Download
Kentish Flats	3	9km off Whitstable	30	Vattenfall	1 Oct 2015	Download
Lincs	3	8km off Skegness	75	Centrica / DONG / Siemens	10 Oct 2013	Download
London Array	3	24km off Clacton-on-S	175	DONG Energy / E.On / Masdar	1 May 2013	Download
Lynn and Inner Dowsing	3	5km off Skegness	54	Centrica	30 Mar 2009	Download Download
North Hoyle	5	7.5km off Prestatyn	30	RWE Npower Renewables	1 Dec 2003	Download
Ormonde	5	off Walney Island	30	Vattenfall	22 Feb 2012	Download
Rhyl Flats	5	8km Abergele	25	RWE Npower Renewables	2 Dec 2009	Download
Robin Rigg	5	9.5km Maryport	60	E.ON UK Renewables	16 Apr 2010	Download
Scroby Sands	3	3km NE Great Yarmth	30	E.ON UK Renewables	1 Mar 2004	Download
Sheringham Shoal	3	Sheringham, Grtr Wash	88	Scira Offshore Energy Ltd	27 Sep 2007	Download
Teeside	3	1.5km NE Teesmouth	27	EdF ER	1 Aug 2013	Download
Thanet	3	11km Foreness Point	100	Vatenfall	23 Sept 2010	Download
Walney 1 & 2	5	14km Walney Island	102	DONG Energy / SSE (+ prttrs)	9 Jan 2012	Download
West of Duddon Sands	5	14km Walney Island	108	Scottish Power / DONG Energy	30 Oct 2014	Download
Westermost Rough	3	25km north of Spurn P	35	DONG Energy	26 Mar 2015	Download

National Awareness Charts

Chart	Link
North West Approaches & North Sea North	Download
North Sea Central	Download
North Sea South	Download
English Channel	Download
South Western Approaches	Download
Irish Sea	Download

National Fishing Plotter Files

File	Link
Kingfisher Fishing Plotter Files – KIS-ORCA January 2016 (Subsea Cables and Wind Farms)	Download