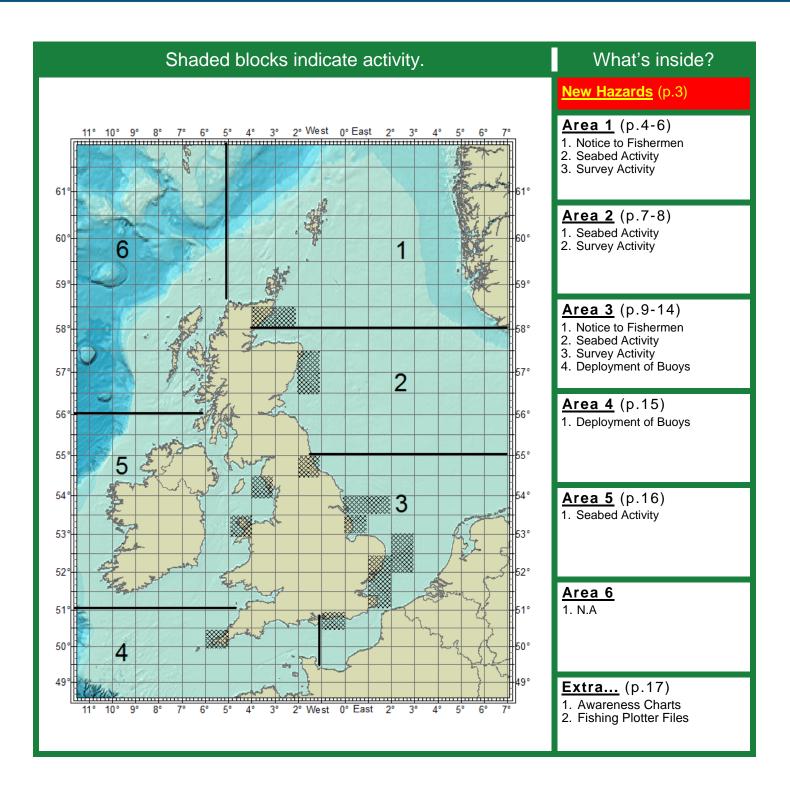
Kingfisher Bulletin Offshore News

RENEWABLE ENERGY

28 JUNE 2018 | ISSUE 13



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Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote the awareness of offshore hazards to fishing, new structures and zones and conflicting offshore operations. Support for the production of renewable industry information is received from The Crown Estate.



Information

Information contained within the Kingfisher Bulletin comes from a variety of sources, although is in the majority, supplied directly to Kingfisher from the offshore operating industry, or government licensing authorities.

Coordinates within the Kingfisher Bulletin are converted into World Geodetic System 1984 (WGS84) and displayed as degrees, minutes and decimal minutes, to three decimal places (ddd°mm.mmm'). Route or boundary coordinates may be simplified for ease of use.

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New Hazards

Area 1	Hazard List				
Hazard Type		Position	Issue Date	Contact Details	Мар
Murchison Wellhea	d Protection Structure				
7.5m x 7.5m x 7.5n	n Well 211/19-2	61°23.382'N 01°44.050'E	03 May 2018	<u>Carolyn.Toshney@cnrl.com</u>	9
	ans have been identified Dunbar to Alwyn pipeline	60°38.646'N 01°39.193'E 60°38.713'N 01°39.207'E 60°39.017'N 01°39.267'E 60°39.033'N 01°39.271'E	31 May 2018	David Colliard,email: <u>david.colliard@total.com</u>	y
New suspended we (211/23b-11)	ellhead on seabed	61°16.210'N 001°25.962'E	15 May 2018	Fairfield Energy, Tel: +44 (0)1224 320708	y
Removal of protect wellhead 211/19-2		61°23.382'N 01°44.050'E	3 May 2018	CNR International Ltd, Tel: +44 1224 303600	y
One 8in pipeline ar Exposed Laggan a	nd one 6in umbilical nd Tormore fields	60° 29.319' N 1° 15.213' W 60° 29.304' N 1° 15.108' W 60° 28.993' N 1° 15.281' W 60° 29.007' N 1° 15.386' W	11 Jan 2018	TOTAL, Tel: +44 (0)1224 298172	y

Area 2	Hazard List				
Haza	rd Type	Position	Issue Date	Contact Details	Мар
Sunken buoy with heavy weight and anchor 57°00.668'N 000°05.671'W		31 May 2018	Raymond Hall,Tel: 01224 646944 email: <u>R.Hall@sff.co.uk</u>	7	

Area 3 Hazard List				
Hazard Type	Position	Issue Date	Contact Details	Мар
Anchor approx. 3.5m x 1.8m	50°41.147'N 000°17.657'W	28 June 2018	Gordon Bain (Eon Marine Coordination) +44(0)7787241442	y
Significant Pipeline Span on PL21 from Hewett to Bacton (37m long and 1m high)	53°01.482'N 001°43.673'E	15 May 2018	ENI, Tel: 020 7344 6342	2
Concrete mattresses installed on seabed t stabilise a pipeline span	53°06.662'N 001°44.180'E and 53°06.668'N 001°44.165'E	19 April 2018	ENI, Tel: 020 7344 6342	y

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First Published: 08 March 2018 | Latest Update: 08 March 2018

Hazard to Fishermen – Dropped Clump Weight Beatrice OWF

Please be advised that the buoy was re-instated using the original moorings on 5th April so there are no longer any

loose items on the seabed (i.e. the buoy and 50 m chain was reconnected to the clump weight and remaining chain)

58°12.600'N 03°01.320'W

For further information: Derek Duckett, Seaway Heavy Lifting, Tel: +31 6 5766 0462 email: dduckett@shl.nl

Seabed Activity

First Published: 22 February 2018 | Latest Update: 19 June 2018

Beatrice Offshore Windfarm Ltd – Construction Operations

Beatrice Offshore Windfarm Limited (BOWL) is developing the Beatrice Offshore Wind Farm in the 'Outer' Moray Firth on the north-western point of the Smith Bank, approximately 7 nm off the Caithness coastline.

Seaways Heavy Lifting are installing foundations and topsides, using the HLV Oleg Strashnov and other vessels. This will continue until approx September 2018. The Rix Panther and other vessels will be engaged in remedial maintainance works in selected locations.

Inter Array Cable Pre Lay Grapnel Run (PLGR) & Inter Array Cable Installation

The CLV Siem Aimery is currently back on site acting as an accommodation vessel for Siem Offshore Contractors (SOC) technicians, carrying out testing and remedial works on various strings. The CTV Marineco Mariah will transfer teams from the Siem Aimery to foundations as required. The Siem Aimery will also conduct post burial surveys of inter array cables

Pile Installation completed at 86 locations. Foundation installation completed at 45 locations.

Location ID	Lat WGS84	Long WGS84	Location ID	Lat WGS84	Long WGS84
BE-A5	58° 12.471' N	002° 59.996' W	BE-G4	58° 13.142' N	002° 53.464' W
BE-B5	58° 12.687' N	002° 58°.873' W	BE-G5	58° 13.762' N	002° 53.254' W
BE-B6	58° 13.308' N	002° 58°.664' W	BE-G6	58° 14.384' N	002° 53.044' W
BE-B7	58° 13.929' N	002° 58°.456' W	BE-G7 (OTM)	58° 15.004' N	002° 52.834' W
BE-C4	58° 12.307' N	002° 57.948' W	BE-Ġ8	58° 15.625' N	002° 52.625' W
BE-C5	58° 12.902' N	002° 57.749' W	BE-G9	58° 16.247' N	002° 52.415' W
BE-C6	58° 13.524' N	002° 57.541' W	BE-G10	58° 16.867' N	002° 52.204' W
BE-C7	58° 14.144' N	002° 57.332' W	BE-G11	58° 17.488' N	002° 51,994' W
BE-C8	58° 14.766' N	002° 57.124' W	BE-G12	58° 18.109' N	002° 51.784' W
BE-C9	58° 15.386' N	002° 56.915' W	BE-G13	58° 18.730' N	002° 51.574' W
BE-D3	58° 11.995' N	002° 57.002°' W	BE-G14	58° 19.351' N	002° 51.362' W
BE-D4	58° 12.497' N	002° 56.834' W	BE-H4	58° 13.356' N	002° 52.339' W
BE-D5	58° 13.117' N	002° 56.626' W	BE-H5	58° 13.977' N	002° 52.130' W
BE-D6	58° 13.739' N	002° 56.417' W	BE-H6	58° 14.598' N	002° 51.920' W
BE-D7	58° 14.359' N	002° 56.209' W	BE-H7	58° 15.219' N	002° 51.709' W
BE-D8	58° 14.981' N	002° 55.999' W	BE-H8	58° 15.840' N	002° 51.499' W
BE-D9	58° 15.602' N	002° 55.790' W	BE-H9	58° 16.461' N	002° 51.289' W
BE-D10	58° 16.223' N	002° 55.58°2' W	BE-H10	58° 17.082' N	002° 51.079' W
BE-D11	58° 16.844' N	002° 55.373' W	BE-H11	58° 17.703' N	002° 50.867' W
BE-E1	58° 10.900' N	002° 56.256' W	BE-H12	58° 18.324' N	002° 50.657' W
BE-E2	58° 11.470' N	002° 56.128' W	BE-H13	58° 18.944' N	002° 50.446' W
BE-E3	58° 12.090' N	002° 55.920' W	BE-J5	58° 14.192' N	002° 51.005' W
BE-E4	58° 12.712' N	002° 55.710' W	BE-J6	58° 14.812' N	002° 50.795' W
BE-E5	58° 13.333' N	002° 55.502' W	BE-J7	58° 15.433' N	002° 50.58°5' W
BE-E6	58° 13.954' N	002° 55.293' W	BE-J8	58° 16.055' N	002° 50.373' W
BE-E7	58° 14.575' N	002° 55.084' W	BE-J9	58° 16.675' N	002° 50.163' W
BE-E8	58° 15.196' N	002° 54.875' W	BE-J10	58° 17.296' N	002° 49.952' W
BE-E9	58° 15.817' N	002° 54.665' W	BE-J11	58° 17.917' N	002° 49.741' W
BE-E10	58° 16.438' N	002° 54.456' W	BE-J12	58° 18.538' N	002° 49.530' W
BE-E11	58° 17.059' N	002° 54.247' W	BE-J13	58° 19.159' N	002° 49.319' W
BE-E12	58° 17.680' N	002° 54.037' W	BE-K6	58° 15.027' N	002° 49.669' W
BE-F2	58° 11.685' N	002° 55.005' W	BE-K7	58° 15.648' N	002° 49.459' W
BE-F3	58° 12.306' N	002° 54.796' W	BE-K8	58° 16.269' N	002° 49.247' W
BE-F4	58° 12.927' N	002° 54.58°8' W	BE-K9	58° 16.890' N	002° 49.036' W
BE-F5	58° 13.548' N	002° 54.378' W	BE-K10	58° 17.510' N	002° 48.825' W
BE-F6	58° 14.168' N	002° 54.169' W	BE-K11	58° 18.131' N	002° 48.614' W
BE-F8 (OTM)	58° 15.411' N	002° 53.750' W	BE-K12	58° 18.752' N	002° 48.403' W
BE-F9	58° 16.031' N	002° 53.540' W	BE-L7	58° 15.862' N	002° 48.333' W
BE-F10	58° 16.653' N	002° 53.330' W	BE-L8	58° 16.482' N	002° 48.122' W
BE-F11	58° 17.274' N	002° 53.120' W	BE-L9	58° 17.104' N	002° 47.910' W
BE-F12	58° 17.894' N	002° 52.911' W	BE-L10	58° 17.724' N	002° 47.698' W
BE-F13	58° 18.516' N	002° 52.701' W	BE-M9	58° 17.317' N	002° 46.784' W
BE-G3	58° 12.544' N	002° 53.726' W	BE-M10	58° 17.938' N	002° 46.571'W

For further information: Beatrice Offshore Windfarm Limited, Tel: +44 (0) 330 202 0329, Mob: +44 (0) 7931 991577

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Bluemull Sound (Shetland) - Subsea Tidal Array

The purpose of the operation is to conduct work on a subsea tidal energy array in Bluemull Sound, Shetland.

A multicat vessel the Leask Marine MV C-Odyssey (pictured below, call sign 2ETW7) will conduct offshore and subsea operations. Works will include loading and preparatory work at Cullivoe Pier. The work will be conducted from June to August 2018; operations could take place during day or night.

Operations will be conducted within a 300m radius of the array location and up to 30m either side of the cable corridor route; cable waypoints are listed below.

Array location: 60°41.908'N 00°59.016'W

			Cable Way Points:		
1.	60°41.878'N 000°59.917'W	5.	60°41.818'N 000°59.400'W	9.	60°41.878'N 000°59.917'W
2.	60°41.813'N 000°59.862'W	6.	60°41.835'N 000°59.217'W	10.	60°41.813'N 000°59.862'W
3.	60°41.814'N 000°59.701'W	7.	60°41.869'N 000°59.101'W		
4.	60°41.815'N 000°59.437'W	8.	60°41.900'N 000°59.030'W		

For further information: Tom Wills, Nova Innovation, Tel: 0131 241 2000/07825 914 257 email: info@novainnovation.com

Survey Activity

First Published: 28 June 2018 | Latest Update: 28 June 2018

Inch Cape Offshore Wind Farm (Firths of Forth and Tay) – Geophysical & Geotechnical Site Investigations

Please be advised that survey vessels will be working in the Moray East Wind Farm and export cable route site for approximately three and a half months (105 survey days, excluding weather downtime). Up to 4 vessels may be mobilised for this survey.

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Please be advised that Horizon Geosciences will be performing site investigation works on behalf of Inch Cape Offshore Limited. The works are being carried out in the Development Area and Offshore Export Cable Corridor of the proposed Inch Cape Offshore Wind Farm located within the Outer Firth of Tay.

The site investigation works consist of a geophysical survey and geotechnical boreholes. The works will be undertaken using the vessels listed below, up to three vessels will be present on site at any one time. Works will be undertaken over ~110 days, excluding weather downtime.

During the geotechnical works the vessel will hold station on DP and all vessels are also requested to remain 500 m clear. The vessel will be displaying the relevant RAM lights and displays during periods of restricted manoeuvrability.

Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Horizon GeoBay, 3ETG2 Horizon Kommandor Iona,GAAK GEOxyz Geo Ocean II, LXHX Geo Ocean III, LXGP Geosurveyor IV, 2DEW4 Geosurveyor VI, 2GRS3 Geosurveyor VIII, 2FUH9	56°25.401'N 002°17.290'W 56°35.721'N 002°17.096'W 56°35.624'N 002°02.594'W 56°25.305'N 002°02.854'W	55°58.465'N 003°00.690'W 56°30.479'N 002°15.269'W 56°25.095'N 002°03.133'W 55°53.154'N 002°48.616'W	On or after 16 th July 2017 For up to 110 day (excluding weather down time) End October 2018

For further information: Horizon Geosciences, Tel: +44 (0)117 329 1080, enquiries@horizon-geosciences.com Or Inch Cape Offshore Limited, Tel: +44 (0) 131 557 7101, Email: inchcapewind@redrockpower.co.uk

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Survey Activity

Moray Wind Farm (East) - Geophysical & Geotechnical Site Investigations

Please be advised that survey vessels will be working in the Moray East Wind Farm and export cable route site for approximately three and a half months (105 survey days, excluding weather downtime). Up to 4 vessels may be mobilised for this survey.

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) will have survey vessels working in the Moray East Wind Farm and export cable route site for approximately 150 survey days, including weather downtime. The figure and table below provide details of the survey location. Up to 4 vessels may be mobilised for this survey. As the current UXO surveys will be limited to the wind farm area for at least the next month then the survey location has been updated to reflect this location only.

The Kommandor Stuart commenced UXO surveys, involving 24 hours on 29 May 2018. Up to five port calls of 1-2 days duration are anticipated. Equipment will be towed from the stern at up to 350 metres in length from the stern of the vessel down to a depth of 1.5 metres above the seabed. Other equipment will be hull mounted. Following completion of the geotechnical surveys the Ocean Vantage left the site on 20 June 2018.

A Fisheries Liaison Officer will be on board each of the vessels; please see below for FLO contact details.

Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Bibby HydroMap Kommandor Stuart MPQH3	58°19.849'N 002°50.458'W 58°19.301'N 002°30.461'W	58°02.409'N 002°34.944'W 58°02.946'N 002°54.796'W	21 st March 2018 For 150 Days

For further information: John Yorston, Moray Offshore Windfarm (East) Ltd, Tel: +44(0)131 556 7602 email: john.yorston@edpr.com FLO Contact Details: Kommandor Stuart: Ian Scott, Tel: +447534 122239, email: janscott2001@hotmail.com

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Aberdeen OWF – Lost Clump Weight

Please be advised of the following Lost Clump Weight from South Cardinal Buoy.

Position: 57°12.266'N 02°00.149'W

In order to be able to redeploy the south cardinal buoy as soon as possible, and due to current vessel availability, the lost clump weight is proposed to be left in situ, while the cardinal buoy with the new clump weight is redeployed. However, it should be noted that all five clump weights used for construction buoyage will be removed following final commissioning of the construction marking for the Wind Farm.

For further information: Esther Villoria, Vattenfall, Tel: 44 77817018575 email: esthervilloria.domibguez@vattenfall.com

Seabed Activity

Aberdeen OWF – Wind Turbine Installation

Please be advised of the following activities proposed to be undertaken at the Aberdeen Offshore Wind Farm Site. Export cable shore landing operations

Please note - All mariners are requested to maintain a minimum 1000m safety zone around each Vessels location. Operation start date ongoing May 2018

Location of Installed Wind Turbines

WTG ID	Latitude	Longitude
AWF 01	57° 13.420' N	02° 00.758' W
AWF 02	57° 13.703' N	02° 00.132' W
AWF 09	57° 12.476' N	02° 00.627' W

Location of Foundations Installed

WTG ID	Latitude	Longitude
AWF 04	57° 14.405' N	01° 58.551' W
AWF 05	57° 12.948' N	02° 00.671' W
AWF 10	57° 12.704' N	01° 59.921' W

Location of Foundations Yet to be Installed

WTG ID	Latitude	Longitude
AWF 03	57° 14.010' N	01° 59.371' W
AWF 06	57° 13.203' N	02° 00.013' W
AWF 07	57° 13.465' N	01° 59.274' W
AWF 08	57° 13.809' N	01° 58.450' W
AWF 11	57° 12.960' N	01° 59.151' W

Wind Turbine & Foundation Installations

Estimated time. Operation to be carried out over 24 hours, length of operation approximately 4 weeks from the 02/05/2018 The vessel Pacific Orca has been selected to carry out turbine installation task along with 2 x CTV vessels the MV Doer & MV Dispatcher. The Isla B shall be acting guard vessel, all mariners are asked to give the Pacific Orca 500 meters space. Remaining Foundation installation will be carried out by heavy lift vessels Aegir and Asian Hercules III all mariners are requested to give both vessels 1000 m clearance

Vessels: Guard Vessel Isla-B Call sign MNVM2, Pacific Orca Call Sign 5BRE3, MV Doer Call Sign OXEH2, Blue Norther Call Sign 2GDD5, MV Dispatcher Call Sign OWAS2, Aegir Call sign 3EYH5, Call Sign Asian Hercules III 9V2514

For further information: aowf.marinecoordination@vattenfall.com https://corporate.vattenfall.co.uk/eowdc

Survey Activity

First Published: 03 May 2018 | Latest Update: 04 June 2018

First Published: 08 March 2018 | Latest Update: 03 May 2018

Seagreen Alpha and Bravo Wind Warms - Survey

Mariners are advised that a detailed Geophysical Survey is planned within the boundary of the Seagreen Alpha and Seagreen Bravo offshore wind farms in the Firth of Forth Offshore Wind Round 3 Zone off the east coast of Scotland. I Company

Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration	
MMT	1. 56°40.900'N 001°56.6361'W	3. 56°31.732'N 001°28.7025'W	Early June 2018	
MV Franklin	2. 56°30.529'N 001°56.7745'W	4. 56°40.817'N 001°34.7606'W	For 65 Days	

For further information: Martin Godfrey (MMT Project Manager) Tel: +44 1295 817748 email: martin.godfrey@mmt.se

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Survey Activity

Kincardine Offshore Wind Farm – Mooring Installation Turbine

Please be advised that installation of the moorings for the first turbine will soon be taking place within the consented Project Site for the Kincardine Offshore Windfarm at location 1

Once started, operations are anticipated to take 2 days excluding weather down time. It is now anticipated that the installation will take place between 20^{th} June and 16^{th} July 2018 by the Bourbon Arctic – LEBQ

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Four moorings will be installed for Turbine 1, the target mooring locations are as below:

Coordinates
57°00.420'N 001°52.694'W
57°00.424'N 001°53.126'W
57°00.172'N 001°53.152'W
57°00.168'N 001°52.682'W

For further information: Dr Richard Wakefield, Tel: +44(0)141 810 9870 email: nwf@niras.com

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Fishing Hazard – Rampion OWF Anchor

Please note that an anchor approx. 3.5m x 1.8m is lying close to WTG F05 at the Rampion OWF position below:

50°41.147'N 000°17.657'W

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

Notice to Fishermen

First Published: 31 May 2018 | Latest Update: 31 May 2018

First Published: 31 May 2018 | Latest Update: 14 June 2018

First Published: 28 June 2018 | Latest Update: 28 June 2018

Hazard to Fishermen – Dropped Buoy Chain on the East Anglia One project

Please be advised that a dropped Please see attached a marine licence dropped incident report for a dropped buoy chain on the EA ONE project. several individual lengths of anchor chain is used to form one anchor weight of around 800kg, all lost.

Anchor chain 1.5 m x 2 m x 1 m, Ballast chain 6 m x 0.42 m x 0.20 m (Cage attached alongside), Cage: 0.4 m x 0.2 m x 0.3 m Riser chain 10 m x 0.1 m x 0.03 m

52°19.333'N 02°32.493'E

For further information: Dominic North Scottish Power, East Anglia One, Tel: +44 1416143847 email: dnorth@scottishpower.com

Notice to Fishermen

Hornsea Offshore Wind Farms – Unexploded Ordnance (UXO)

Hornsea Project One Offshore Wind Farm is located within the UK Sector of the North Sea off the coast of East Yorkshire. Mariners are advised that Hornsea Project One confirms the presence of two confirmed Unexploded Ordnance (UXO) within the wind farm area.

Hornsea Project One will plan to carry out the controlled detonation of the confirmed UXO from the week commencing 18th June 2018, weather permitting. All vessels are requested to keep a safe distance of 1500m around the locations below. All works will be controlled detonations. The detonation works will be carried out by the MV EDT Protea.

Locations: 53°53.056'N 001°39.548'E 53°55.313'N 002°08.098'E

For further information: Nick Garside, Tel: +44(0)7538 827013 email: nick.garside @live.co.uk

Notice to Fishermen

First Published: 14 November 2017 | Latest Update: 14 November 2017

Fishing Hazard – Cable Spans Along Greater Gabbard WF Export Cable

Recent results from the export cable surveys at Greater Gabbard show that there are 8 free-spans

Whilst the results continue to be processed, Balfour Beatty have asked that in the interest of safety and the integrity of the cable, extreme caution be used when Fishing near the export cables and that Fishermen refrain from using towed gear across the export cables wherever possible.

Cable	Position (from)	Position (to)	Span Length(m)	Span height(cm)
L1	52°12.284N 001°39.364E	52°12.283N 001°39.369E	6	0
L1	52°12.271N 001°39.434E	52°12.270N 001°39.441E	8	13
L1	52°12.064N 001°40.559E	52°12.061N 001°40.565E	8	20
L2	52°12.128N 001°40.524E	52°12.124N 001°40.535E	15	5
L2	52°12.119N 001°40.560E	52°12.118N 001°40.567E	8	76
L3	52°12.169N 001°40.502E	52°12.169N 001°40.504E	3	11
L3	52°12.148N 001°40.594E	52°12.146N 001°40.604E	13	34
L3	51°59.194N 001°57.431E	51°59.187N 001°57.442E	17	10

For further information: Merlin Jackson email: merlinjackson@btinternet.com Tel: 07989520484

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SEAFISH The Kingfisher

Race Bank Offshore Wind Farm – Exposed Export Cable Sections

Sections of the Race Bank Wind Farm export cable have been found to be exposed, or only shallowly buried. These pose a snagging risk to fishermen and caution should be exercised. Remedial burial works are ongoing to achieve full burial at these locations.

As the previously agreed 'Fishing Clearance Zones' have now been deactivated as of 00:01 on 1st March 2018, Orsted are working with fishermen on an agreement to remain clear of these locations whilst work continues.

The Foryd Bay 2FGW6, is currently providing support services within the Race Bank wind farm array area. The Foryd Bay, or an alternative survey vessel, is due to conduct additional environmental survey work along the Race Bank export cable routes within the coming weeks. The Twitter Link' chart link shows these exposed sections, which are also pasted below:

Section	Centre Position
KP 11: Length 895m x Width 100m	52°54.281'N 000°16.413'E
KP 23: Length 200m	52°59.730'N 000°22.580'E to
	52°59.770'N 000°22.740'E
KP 25: Length 525m x Width 100m	53°00.266'N 000°24.230'E
KP 27: Lenath 365m x Width 100m - 170m	53°01.044'N 000°25.029'E
KP 28: Length 1002m x Width 100m	53°01.499'N 000°25.595'E
KP 35: Length 3230m x Width 100-220m	53°04.766'N 000°29.252'E
North of KP 62: Length 235m x Width 100m	53°15.159'N 000°43.036'E
KP 65: Length 435m x Width 100m	53°16.363'N 000°44.391'E
KP 70.925: Length 170m x Width 100m	53°17.736'N 000°48.500'E

In the interests of the safety of mariners, and in order to avoid damaging the export cables, the Race Bank project is dutybound to highlight the significant risks that would be associated with fishing activity within the 'Cable Exposure Zones'. In line with standard industry practice, fishermen are advised to temporarily refrain from fishing within the 'Cable Exposure Zones' (inc. pot fishing and/or trawling) while remedial burial works remain ongoing. Any static gear anchors, or towed fishing equipment, deployed within these areas presents a significant risk to gear, to vessels, to crews, and to the export cables.

For further information: Hywel Roberts, DONG Energy, Tel: +44(0)20 7811 5486 email: hywro@dongenergy.co.uk

Notice to Fishermen

First Published: 02 November 2017 | Latest Update: 02 November 2017

Fishing Hazard – Gunfleet Sands WF Export Cable (Exposure Update)

Recent surveys at Gunfleet Sands offshore wind farm have illustrated that some array/in-field cables are lying exposed on the seabed and are no longer buried and there is one freespan.

These are the following cables located in the eastern part of Gunfleet Sands 1 and the north eastern part of Gunfleet Sands 2.

Location	Start of Exposure	End of Exposure
Cable between turbines C06-D06	51°44.590'N 001°14.923'E	51°44.383'N 001°15.101'E
Cable between turbines F09-F08	51°44.736'N 001°17.428'E	51°44.480'N 001°16.772'E
Cable between turbines F08-F07	51°44.481'N 001°16.772'E	51°44.225'N 001°16.115'E
Cable between turbines F07-F06	51°44.225'N 001°16.115'E	51°43.969'N 001°15.459'E
Cable between turbines G08-G07	51°44.274'N 001°16.950'E	51°44.018'N 001°16.294'E

For further information: Merlin Jackson email: merlinjackson@btinternet.com Tel: 07989520484

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STAY UPTO DATE - ALWAYS ENSURE YOU HAVE THE LATEST KINGFISHER BULLETIN AND OFFSHORE FISHING PLOTTER DATA ON-BOARD.



First Published: 08 March 2017 | Latest Update: 26 April 2017

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Map Link



First Published: 11 January 2018 | Latest Update: 26 June 2018

Hornsea Offshore Wind Farms – Export Cable Open Trenches & Surveys



Open Trenches and Exposed Cables

HOW01 wish to inform mobile gear fishermen that trenching works and cable laying is ongoing within the HOW01 export cable corridor as illustrated in the **Map Link** (top right). Coordinates of these areas are displayed below. There is exposed cable, as well as cut trenches which pose a snagging risk to fishermen, caution should be exercised. Any static gear anchors, or towed fishing equipment, deployed within these areas presents a significant risk to gear, to vessels, to crews, and to the export cables. The trenches range in depth to circa 2m, further information can be obtained via Nick Garside the Project's Fishing Industry Representative (nick.garside@live.co.uk).

Open Trench areas:

Area 1 Coordinates	Area 2 Coordinates
53° 37.987'N 0° 56.533'E	53° 52.191' N 2° 5.106' E
53° 37.472'N 0° 56.753'E	53° 52.485' N 2° 5.160' E
53° 42.915'N 1° 14.662'E	53° 52.756' N 2° 5.756' E
53° 42.326'N 1° 14.847'E	53° 52.089' N 2° 5.764' E
53° 42.946'N 1° 15.972'E	53° 52.410' N 2° 6.283' E
53° 42.358'N 1° 16.279'E	
53° 38.775'N 1° 2.268'E	
53° 38.133'N 1° 2.519'E	
53° 44.583'N 1° 23.354'E	
53° 44.048'N 1° 23.732'E	
53° 44.772' N 1° 24.602' E	
53° 44.263' N 1° 24.873' E	
53° 45.978' N 1° 34.125' E	
53° 45.466' N 1° 34.587' E	
53° 47.134' N 1° 42.000' E	
53° 46.624' N 1° 42.295' E	
53° 47.967' N 1° 46.047' E	
53° 47.390' N 1° 46.068' E	
53° 48.538' N 1° 51.557' E	
53° 48.003' N 1° 51.668' E	
53° 49.947' N 1° 59.989' E	
53° 49.428' N 2° 0.180' E	

Cable Laid (exposed) areas:

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Area 1 Coordinates	Area 2 Coordinates	Area 3 Coordinates	Area 4 Coordinates
53° 30.312' N 0° 32.436' E	53° 30.549' N 0° 30.317' E	53° 53.670' N 1° 42.618' E	53° 44.839' N 1° 24.436' E
53° 31.970' N 0° 39.014' E	53° 30.044' N 0° 30.556' E	53° 53.182' N 1° 42.819' E	53° 44.381' N 1° 24.841' E
53° 31.798' N 0° 40.098' E	53° 30.014' N 0° 4.025' E	53° 53.638' N 1° 44.440' E	53° 45.107' N 1° 26.415' E
53° 36.111' N 0° 43.504' E	53° 29.875' N 0° 4.813' E	53° 53.030' N 1° 44.518' E	53° 44.577' N 1° 26.489' E
53° 35.664' N 0° 44.013' E	53° 31.396' N 0° 5.799' E	53° 52.982' N 1° 48.785' E	53° 47.172' N 1° 41.782' E
53° 37.493' N 0° 49.920' E	53° 30.927' N 0° 6.249' E	53° 52.442' N 1° 48.786' E	53° 46.666' N 1° 42.099' E
53° 36.955' N 0° 49.968' E	53° 31.440' N 0° 6.549' E	53° 52.833' N 1° 50.921' E	53° 47.944' N 1° 43.433' E
53° 37.352' N 0° 51.812' E	53° 31.128' N 0° 6.735' E	53° 53.375' N 1° 50.922' E	53° 47.591' N 1° 44.126' E
53° 36.819' N 0° 51.951' E	53° 29.736' N 0° 28.734' E	53° 52.961' N 1° 53.946' E	53° 50.284' N 1° 47.307' E
53° 37.925' N 0° 56.108' E	53° 30.204' N 0° 28.546' E	53° 52.620' N 1° 58.794' E	53° 51.156' N 1° 47.925' E
53° 37.401' N 0° 56.295' E		53° 52.088' N 1° 58.953' E	53° 50.054' N 1° 48.132' E
		53° 53.147' N 2° 1.029' E	53° 50.698' N 1° 48.464' E
		53° 52.625' N 2° 1.257' E	53° 51.548' N 1° 50.956' E
		53° 52.686' N 2° 3.670' E	53° 51.061' N 1° 51.350' E
		53° 53.236' N 2° 3.693' E	53° 52.567' N 1° 53.016' E
		53° 52.359' N 2° 6.081' E	53° 52.409' N 1° 53.961' E
		53° 52.828' N 2° 6.488' E	

Expected Cable Lay:	Cable Buried Area:	Expected Opened Trenches:
Area 1 Coordinates	Area 1 Coordinates	Area 1 Coordinates
53° 30.162' N 0° 4.060' E	53° 32.131' N 0° 12.218' E	53° 30.759' N 0° 31.725' E
53° 29.845' N 0° 4.761' E	53° 31.595' N 0° 12.114' E	53° 30.245' N 0° 32.436' E
53° 31.355' N 0° 5.966' E	53° 30.950' N 0° 6.406' E	53° 32.033' N 0° 38.976' E
53° 30.865' N 0° 6.342' E	53° 31.462' N 0° 6.133' E	53° 31.391' N 0° 39.362' E
53° 32.091' N 0° 11.988' E	53° 31.449' N 0° 14.681' E	53° 36.197' N 0° 43.513' E
53° 31.545' N 0° 12.149' E	53° 30.976' N 0° 14.244' E	53° 35.598' N 0° 44.058' E
53° 30.924' N 0° 14.187' E	53° 30.211' N 0° 17.304' E	53° 37.548' N 0° 49.838' E
53° 31.402' N 0° 14.605' E	53° 29.785' N 0° 16.770' E	53° 36.904' N 0° 49.991' E
53° 28.508' N 0° 20.254' E	53° 28.576' N 0° 20.037' E	53° 37.410' N 0° 51.837' E
53° 29.046' N 0° 20.338' E	53° 29.115' N 0° 20.084' E	53° 36.765' N 0° 51.925' E
53° 29.826' N 0° 25.071' E	53° 30.581' N 0° 30.488' E	53° 37.789' N 0° 53.570' E
53° 29.287' N 0° 25.142' E	53° 30.070' N 0° 30.730' E	53° 37.148' N 0° 53.775' E
53° 30.666' N 0° 31.378' E	53° 30.119' N 0° 4.027' E	53° 38.020' N 0° 55.915' E
53° 30.153' N 0° 31.639' E	53° 29.828' N 0° 4.698' E	53° 37.322' N 0° 56.056' E
		53° 37.907' N 0° 56.815' E
		53° 37.548' N 0° 56.981' E

Surveys

Hornsea Project Two wind farm is continuing survey works, within the below charted areas - this may continue until September 2018. The following survey vessel will be used: R/V Mintis, Fugro Pioneer, Fugro Seeker and the Fugro Gauss.

https://twitter.com/Kingfisherinfo/status/997059331530088449

For further information: Nick Garside, Tel: +44(0)7538 827013 email: nick.garside @live.co.uk

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Race Bank Offshore Wind Farm – Fully Operational

Fishermen and Mariners are advised that the Race Bank Offshore Wind Farm (the Project) will be fully operational as

of 01 Jun 18 and therefore the site will be open to fishing activities.



For further information: Adrian Woods, Fishing Industry Representative, Tel: 07468 898948

Seabed Activity

First Published: 14 June 2018 | Latest Update: 14 June 2018

Hornsea Offshore Wind Farm – Boulder Removal

Hornsea Project One Offshore Wind Farm is located within the UK Sector of the North Sea off the coast of East Yorkshire.

Mariners are advised that boulder clearance activity will commence along array cable routes at Hornsea Project One from 16th June 2018. The activities and vessels associated with boulder clearance array cables are provided below.

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Target ID	Coordinates	Target ID	Coordinates
1	53°58.703'N 001°44.531'E	13	53°57.208'N 002°04.540'E
2	53°55.774'N 001°47.797'E	14	53°57.408'N 002°06.112'E
3	53°56.381'N 001°51.957'E	15	53°50.167'N 002°13.953'E
4	53°55.522'N 001°52.905'E	16	53°49.238'N 002°11.614'E
5	53°55.627'N 001°53.635'E	17	53°49.976'N 001°59.913'E
6	53°55.389'N 001°55.338'E	18	53°49.982'N 001°58.997'E
7	53°55.136'N 001°56.177'E	19	53°50.085'N 001°38.974'E
8	53°55.590'N 001°59.349'E	20	53°55.155'N 001°39.867'E
9	53°55.042'N 001°59.763'E	21	53°56.054'N 001°41.002'E
10	53°55.378'N 002°02.237'E	22	53°56.494'N 001°43.760'E
11	53°56.272'N 002°01.254'E	23	53°58.297'N 001°41.780'E
12	53°56.776'N 002°05.067'E	24	53°58.703'N 001°44.531'E

For further information: Nick Garside, Tel: +44(0)7538 827013 email: nick.garside@live.co.uk

Seabed Activity

First Published: 31 May 2018 | Latest Update: 13 June 2018

Thanet Wind Farm – Maintenance

Vattenfall is currently developing a proposal for an extension to the existing and operational Thanet Offshore Wind Farm which is located approximately 12km from the shore at Margate in Kent. The extension would involve the addition of up to 34 turbines on the edges of the existing wind farm, with the nearest located around 8km from the coastline.

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All Mariners are to be advised that the remaining Metocean Monitoring Equipment on A2b location (north of the existing Thanet Offshore Wind Farm) will be recovered 15th June 2018

Location	Equipment	Location	Depth
A2b	500 kg chain clump weight and mooring line	51°27.950'N 001°38.782'E	-22
	200 kg chain clump weight	51°28.034'N 001°38.894'E	-22

For further information: Jennifer Munns Tel: +44())1843 572136 email: Jennifer.munns@vattenfall.com

Seabed Activity

First Published: 03 May 2018 | Latest Update: 03 May 2018

Gunfleet Sands Offshore Wind Farm – Array Cable Burial

Recent surveys at Gunfleet Sands offshore wind farm have illustrated that some array/in-field cables are lying exposed on the seabed and are no longer buried and there is one freespan.

These are the following cables located in the eastern part of Gunfleet Sands 1 and the north eastern part of Gunfleet Sands 2

Location	Start of Exposure	End of Exposure
Cable between turbines C06-D06	51°44.590'N 01°14.923'E	51°44.383'N 01°15.101'E
Cable between turbines F09-F08	51°44.736'N 01°17.428'E	51°44.481'N 01°16.772'E
Cable between turbines F08-F07	51°44.481'N 01°16.772'E	51°44.225'N 01°16.115'E
Cable between turbines F07-F06	51°44.225'N 01°16.115'E	51°43.969'N 01°15.459'E
Cable between turbines G08-G07	51°44.274'N 01°16.950'E	51°44.018'N 01°16.294'E

Mariners are advised to be aware of these areas which may represent a hazard to fishing.

For further information: Merlin Jackson, Tel: 07989520484 email: <u>merlinjackson@btinternet.com</u> or Anthony Mayhew / Steve Breeden, Dong Tel: +44(0)1206 307915 email: <u>gfscoordinators@dongenergy.co.uk</u>

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East Anglia One Wind Farm - Construction and UXO Disposal

Please be advised that construction activities and UXO disposal are continuing at the East Anglia One Wind Farm.

Construction

- The Glomar Drifa will continue Guard vessel duties
- Heavy Lift vessel Bokalift will continue pile and jacket installation on East Anglia One Wind Farm.
- Olympic Taurus will continue pile cleaning on various locations.
- MTS Terramare to continue UXO diving investigations on various locations on the export cable route.
- Tender 2 will support the MTS Terramare with near shore operations.
- Olympic Artemis to continue UXO investigation and EOD disposal.
- GPS Battler to continue supporting the MTS Terramare with anchor handling operations.
- Edda Fonn will continue UXO investigation on the ECR route and turbine array.
- Go Electra will continue UXO investigation on the ECR route.
- Olympic Commander will continue with out of service cable removal campaign

Please be advised that confirmed unexploded ordnance has been identified at the following as found coordinates:

Location	Location	Location	Location
52°16.636'N 002°31.259'E	52°19.474'N 002°33.631'E	52°18.770'N 002°33.920'E	52°15.887'N 002°31.882'E
52°18.251'N 002°30.449'E	52°11.547'N 002°12.908'E	51°59.788'N 001°25.955'E	52°17.031'N 002°30.999'E
52°18.351'N 002°32.430'E	52°10.912'N 002°06.912'E	52°11.100'N 002°28.618'E	52°17.472'N 002°30.824'E
52°18.381'N 002°30.384'E	52°16.028'N 002°27.845'E	51°59.647'N 001°26.064'E	52°11.572'N 002°28.315'E
52°18.308'N 002°30.456'E	52°18.352'N 002°30.331'E	51°59.449'N 001°26.219'E	52°13.243'N 002°27.347'E
52°18.239'N 002°30.460'E	52°15.688'N 002°28.028'E	52°11.367'N 002°12.567'E	52°16.523'N 002°33.431'E
52°17.162'N 002°32.883'E	52°15.498'N 002°28.164'E	52°13.786'N 002°27.185'E	52°02.435'N 001°35.322'E
52°17.178'N 002°32.917'E	52°15.667'N 002°31.968'E	52°11.798'N 002°26.246'E	52°01.772'N 001°34.237'E
52°16.547'N 002°33.295'E	52°10.222'N 002°32.822'E	52°11.356'N 002°09.539'E	52°00.739'N 001°32.701'E
52°15.730'N 002°33.763'E	52°17.442'N 002°30.806'E	52°03.474'N 001°37.078'E	52°13.111'N 002°27.512'E
52°18.610'N 002°34.039'E	52°17.472'N 002°30.826'E	52°03.072'N 001°36.326'E	52°17.011'N 002°27.512'E
52°18.788'N 002°33.930'E	52°12.880'N 002°31.513'E	52°11.255'N 002°28.446'E	52°13.046'N 002°27.512'E
52°03.700'N 001°38.848'E	51°59.545'N 001°30.163'E	52°13.046'N 002°27.502'E	52°03.748'N 001°39.892'E
52°03.800'N 001°39.233'E			

For further information: Graham Farrant, Tel: 0141614290 or 7834 603291 email: gfarrant@scottishpower.com

Survey Activity

First Published: 28 June 2018 | Latest Update: 28 June 2018

Triton Knoll Offshore Windfarm - Survey

Triton Knoll Offshore Wind Farm Limited has contracted Fugro to carry out a geophysical site investigation in the landfall region at Anderby Creek for the proposed Triton Knoll Offshore Wind Farm (TKOWF) site.

Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration	
Fugro CRC Courageous 2GWP4 CRC Hercules 2FO15	53°16.651'N 000°19.148'E 53°16.963'N 000°22.682'E 53°17.546'N 000°23.728'E	53°16.646'N 000°25.155'E 53°15.789'N 000°23.554'E 53°15.496'N 000°19.620'E	28 th June 2018 For 5 Weeks	

For further information: Sally Dalrymple – Project Manager Tel: +44 (0) 1491 820 657, +44 (0) 7917 058 751 (mob), Email: s.dalrymple@fugro.com

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Area 3

Seabed Activity

Rampion Wind Farm – Installation and Operation

Installation of structures

Rampion will be installing corrosion coupons at the following locations C08, K04, I15, O07, G03 located approximately 2-3m from monopole structure to be landed close to the TP access ladder (within radius of davit crane).

These units are planned to remain on seabed for 7 years. Operations are planned to start week commencing 21.05.2018. Units will be installed using the davit on each of these locations

Export Cable

Edda Fonn - LMER will operate along the extents of the export cable, around the OSP and at a selection (15-20) WTG's. Voe Vanguard – MBEN9 will generally focus operations in shallower waters of the cable route, but will operate along the extents of the export cable, around the OSP and at a selection WTG's.

Export cable are strictly limited to the immediate area over CR4 (may need to investigate targets within 250m of the cable but not anticipated). WTG works will be localised within 100m of the towers.

Edda Fonn - Mobilising to site 4th/5th May / Voe Vanguard - Mobilising to site 6th/7th May.

Both campaigns will be approximately 4 weeks. All operations are on a 24/7 basis.

50°49.034'N 00°20.175'W	50°45.179'N 00°19.222'W	50°42.958'N 00°18.205'W
50°48.817'N 00°20.067'W	50°45.073'N 00°19.196'W	50°42.787'N 00°17.929'W
50°48.499'N 00°19.917'W	50°44.401'N 00°18.983'W	50°42.383'N 00°17.155'W
50°47.507'N 00°19.275'W	50°44.230'N 00°18.939'W	50°42.290'N 00°16.978'W
50°46.910'N 00°19.040'W	50°44.011'N 00°18.881'W	50°41.902'N 00°16.244'W
50°46.862'N 00°19.028'W	50°44.011'N 00°18.881'W	50°41.796'N 00°16.006'W
50°46.634'N 00°18.995'W	50°43.729'N 00°18.779'W	50°41.647'N 00°15.666'W
50°46.586'N 00°18.995'W	50°43.441'N 00°18.649'W	50°41.623'N 00°15.635'W
50°46.069'N 00°19.062'W	50°43.297'N 00°18.571'W	50°41.576'N 00°15.598'W
50°45.436'N 00°19.194'W	50°43.245'N 00°18.534'W	
50°45.331'N 00°19.218'W	50°43.179'N 00°18.477'W	
50°45.274'N 00°19.224'W	50°43.131'N 00°18.427'W	

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

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Map Link

Deployment of Buoys

North Coast of Cornwall - Wave Hub Subsea Cable Safety Notice

Mariners are reminded to exercise caution when navigating in the vicinity and are advised not to anchor or fish within the Wave Hub offshore site (as defined by the four special marks and charted as 'Renewable Energy Development Area') or in proximity to the main export cable.

Please be advised that the subsea cable system safety notification remains in force and the system is live at 11,000V. The majority of Wave Hub subsea cables are surface laid with varying levels of protection and alongside a dynamic seabed present a potential snag risk to anchors or fishing gear.

The following safety information and attachments should be carefully digested by any mariner operating in the vicinity of the Wave Hub offshore site or export cable route:

1. Overall, the 2017 cable survey shows that approximately 18% of the export cable remains exposed. Key characteristics are as follows (KP chart and RPL attached):

a. From the shore to KP1.9 the subsea power cable remains buried to the design depth of 1.5m from top of product
b. Due to varying sediment depths alongside shallow burial or a partial rock berm, From KP 1.9 to KP 8.1 the subsea power cable is in many areas exposed or carries a high risk of exposure

c. From KP 8.1 to the Wave Hub itself (KP 25) the subsea power cable is generally covered by a rock berm with 0.3m depth of cover. However, the 2017 survey has recorded a number of longstanding cable exposures and free-spans through this zone so the berm should not be considered as continuous protection.

2. Four cable tails extend across the charted offshore Renewable Energy Development Area to provide Developers with a proximate point of connection (KP chart and RPLs attached). These cables are stabilised against current and wave action through rock bags positioned at regular intervals but are otherwise exposed and unprotected to facilitate ease of handling. Many free-spans were removed in 2016 during construction by use of further rock bags but further free-spans due to the seabed mobility have been recorded during the 2017 cable survey.

Boundary Point	Position
SW	50°20.707'N 05°37.211'W
NW	50°22.812'N 05°37.734'W
NE	50°22.977'N 05°36.110'W
SE	50°20.873'N 05°35.587'W

Wave Hub AtoN Name	Details	Assigned Position	Current Status
Wave Hub NW N18100	North Cardinal – 3m Diameter Buoy Light: VQ	50°23.060'N 05°38.240'W	ОК
Wave Hub SE N18107	VQ(6) +L FI 10s Pillar YB Cardinal S	50°20.640'N 05°35.010'W	ОК
Wave Hub Site – NW N18101	South Cardinal – 3m Diameter Buoy FI Y 5s (sync) Pillar Y Cross Y X	50°22.791'N 05°37.943'W	ОК
Wave Hub Site – NE N18102	FI Y 5s (sync) Pillar Y Cross Y X	50°22.999'N 05°35.901'W	ОК
Wave Hub Site – SE N18106	FI Y 5s (sync) Pillar Y Cross Y X	50°20.894'N 05°35.378'W	ОК
Wave Hub Site – SW N18105	FI Y 5s (sync) Pillar Y Cross Y X	50°20.541'N 05°37.196'W	ОК

Wave Buoy: 50°20.834'N 05°36.850'W

Subsea Infrastructure	Position
Wave Hub (Centre of 500m Safety Zone)	50°20.825'N 05°37.136'W
End of Cable Tail Bundle	50°20.904'N 05°37.095'W
Cable Tail 1 Dry Mate Connector	50°20.955'N 05°36.762'W
Cable Tail 2 Dry Mate Connector	50°21.318'N 05°37.202'W
Cable Tail 3 Dry Mate Connector	50°21.939'N 05°37.277'W
Cable Tail 4 Dry Mate Connector	50°22.418'N 05°37.356'W

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

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STAY UPTO DATE - ALWAYS ENSURE YOU HAVE THE LATEST KINGFISHER BULLETIN AND OFFSHORE FISHING PLOTTER DATA ON-BOARD.



- Andrew

Deep Green Tidal Energy – Installation

Holyhead Deep is the starting point for developing Minesto's unique "Deep Green" marine technology at a commercial scale. It will be the first low-velocity tidal energy project in the world.

The development of tidal energy production at Holyhead Deep is due to be done in phases. The first step will be the installation of one 0.5MW "Deep Green" demonstrator during 2018. Following deployment and testing, the ambition is to install further Deep Green devices to a commercial demonstration array of up to 10MW installed capacity. Further information about Minesto, the "Deep Green" technology and Holyhead Deep can be found on the Minesto website: https://minesto.com/.

The installation of a Deep Green DG500 tidal energy converter is due to take place approximately 6km west of South Stack off the coast of Anglesey in the Holyhead Deep.

The installation is due to take place during the two neap tide periods in May 2018. Installation work will be weather dependant. The expected duration of works will be 4 days in each neap tide period.

The installation operations in May will consist of the placing a Gravity Base Structure on the seabed and securing an Offshore Support Buoy at the surface. The location of these components is listed here:

MGS Offshore Support Buoy: 53° 17.7957' N 004° 47.7582'W Gravity Base Structure: 53° 17.8309'N 004° 47.9558'W

A safety zone of 500m on the sea surface will be established on the MGS Offshore Support Buoy. The moorings for this buoy will extend 800m from the buoy on the seabed.

The installation work will involve the vessels listed below:

- Island Vanguard main installation vessel (call sign: LNVU)
- C Fenna tug / multicat vessel (MBAH3)

For further information: Jim Andrews, Fishery Liaison Officer, Tel: +44(0)7908-225865

Seabed Activity

First Published: 01 December 2016 | Latest Update: 10 May 2018

Walney Extension Wind Farm - Construction

Please note that the whole of this area remains a designated construction site and all mariners are requested and advised to mark the positions of the Buoys on their charts/plotters and unless there are matters relating to their own safety or the safety of others they should keep clear and not enter the buoyed area until the Wind Farm has been commissioned with the Buoys removed and you have been informed.

All mariners should also note that there remains a constant stream of traffic between the Wind Farm Site, Belfast, Barrow and Heysham.

Both Offshore Sub-Stations, Z03 (section WOWO3) and Z04 (section WOWO4), are installed and commissioned.

Section WOW03

All 40 Wind Turbine Generators in this section of the Wind Farm are installed and commissioned, monitoring and testing of the Turbines in this section is ongoing as weather and conditions permit.

Section WOW04

All 47 Wind Turbine Generators in this section of the Wind Farm are installed and commissioned, monitoring and testing of the Turbines in this section is ongoing as weather and conditions permit.

A 500 meter minimum Safe Working Distance is requested around all of the construction vessel at all times while on site

There are now only two Guard Vessels engaged : 'KARIMA' is primary Wind Farm Site, 'FAIRLINE SURVEYOR' secondary Wind Farm site/Export Cable

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

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Map Link

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t: +44 (0)1472 252 307 | e: kingfisher@seafish.co.uk @ @KingfisherInfo | www.kingfishercharts.org

Local Awareness Charts

Chart	Area	Location	Turbines	Developer	Completed	Link
Barrow	5	7km dudgeon Island	30	Orsted	1 Jul 2006	Download
Blyth	2	1km N.E Coast	2	E.ON	-	Download
Burbo Bank	5	5.2km Crosby	25	Orsted	27 Oct 2007	Download
Dudgeon	3	38km Outer Wash	67	Statkraft / Statoil	-	Download
Greater Gabbard	3	26km off Orford, Sufflk	140	SSE & RWE Npower / Innogy	7 Sept 2012	Download
Gwynt y Mor	5	13km off N Wales Cst	160	RWE Innogy / SWM	18 Jun 2015	Download
Gunfleet Sands 1, 2 & 3	3	8.5km off Clacton-On-S	50	Orsted	19 April 2010	Download
Humber Gateway	3	8km off Holderness Cst	73	E.ON UK	5 Jun 2015	Download
Hywind	2	25km off Peterhead	5	Statoil	-	Download
Inner Dowsing	3	5km off Skegness	27	Siemens	30 Mar 2009	Download
Kentish Flats	3	9km off Whitstable	30	Vattenfall	1 Oct 2015	Download
Lincs	3	8km off Skegness	75	Centrica	10 Oct 2013	Download
London Array	3	24km off Clacton-on-S	175	Orsted	1 May 2013	Download
Lynn	3	5km off Skegness	27	Siemens	30 Mar 2009	Download
North Hoyle	5	7.5km off Prestatyn	30	RWE Innogy UK	1 Dec 2003	Download
Race Bank	3	27km Lincolnshire	91	Orsted	-	Download
Ormonde	5	off Walney Island	30	Vattenfall	22 Feb 2012	Download
Rampion	3	Off Sussex Coast	116	E.ON UK Renewables	-	Download
Rhyl Flats	5	8km Abergele	25	RWE Innogy UK	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	Statkraft / Statoil	27 Sep 2007	Download
Teesside	3	1.5km NE Teesmouth	27	EdF ER	1 Aug 2013	Download
Thanet	3	11km Foreness Point	100	Vattenfall	23 Sept 2010	Download
Walney 1	5	14km Walney Island	51	Orsted / SSE (+ prtnrs)	9 Jan 2012	Download
Walney 2	5	14km Walney Island	51	Orsted / SSE (+ prtnrs)	9 Jan 2012	Download
West of Duddon Sands	5	14km Walney Island	108	Scottish Power / Orsted	30 Oct 2014	Download
Westermost Rough	3	25km north of Spurn P	35	Orsted	26 Mar 2015	Download

National Awareness Charts

Chart	Link
North Sea North & West	<u>Download</u>
North Sea Central	<u>Download</u>
North Sea South	Download
English Channel	Download
South Western Approaches	Download
Irish Sea	Download
Baltic North	Download
Baltic South	Download

National Fishing Plotter Files

File	Link
Kingfisher Fishing Plotter Files – KIS-ORCA January 2018 (Subsea Cables and Wind Farms)	Download

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