

The Kingfisher Bulletin

Offshore News

RENEWABLE ENERGY

31 MAY 2018 | ISSUE 11

Shaded blocks indicate activity.

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1. Deployment of Buoys

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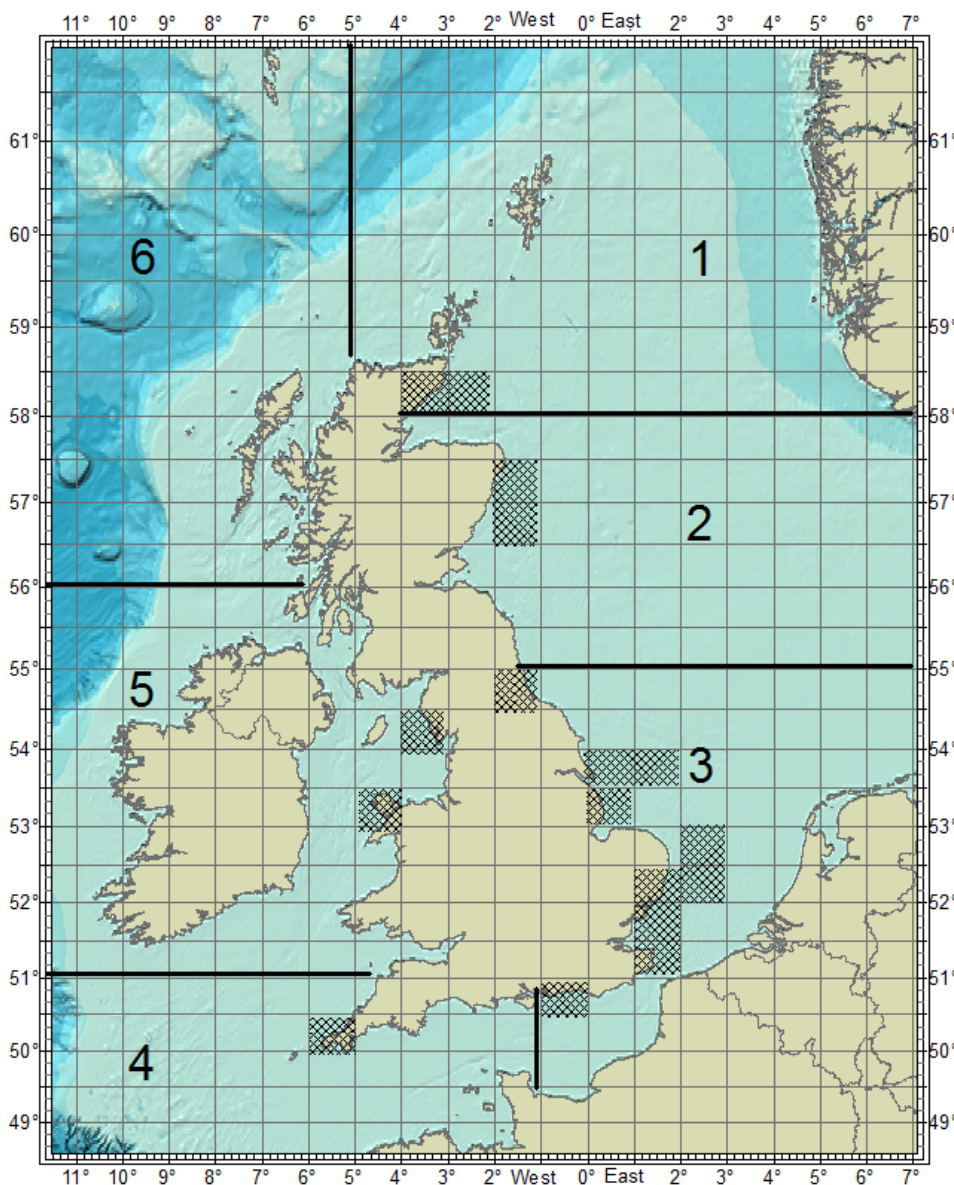
1. Seabed Activity

Area 6

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

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 | Map |
|---|--|-------------|---|---|
| Significant free-spans have been identified along the PL1043 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: david.colliard@total.com |  |
| New suspended wellhead on seabed (211/23b-11) | 61°16.210'N 001°25.962'E | 15 May 2018 | Fairfield Energy, Tel: +44 (0)1224 320708 |  |
| Removal of protective structure for wellhead 211/19-2 (8m x 8m x 7m) | 61°23.382'N 01°44.050'E | 3 May 2018 | CNR International Ltd, Tel: +44 1224 303600 |  |
| One 8in pipeline and one 6in umbilical Exposed Laggan and 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 |  |

Area 2 Hazard List

| Hazard Type | Position | Issue Date | Contact Details | Map |
|--|--------------------------|-------------|---|---|
| Sunken buoy with heavy weight and anchor | 57°00.668'N 000°05.671'W | 31 May 2018 | Raymond Hall, Tel: 01224 646944 email: R.Hall@sff.co.uk |  |

Area 3 Hazard List

| Hazard Type | Position | Issue Date | Contact Details | Map |
|--|---|---------------|-------------------------|---|
| 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 |  |
| Concrete mattresses installed on seabed to 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 |  |

Hazard to Fishermen – Dropped Clump Weight Beatrice OWF



Please be advised that a dropped clump weight from the West Cardinal Buoy at Beatrice Windfarm. The Buoy and 50 m chain have been recovered but the Clump Weight and remaining chain are still on the seabed

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: 5 May 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 maintenance works in selected locations.

Export cable installation is continuing with the vessel Nexans Skagerrak (LCEK) with the TSV Elektron (LADO) trenching the cable. The CLV Siem Aimery has completed her Inter Array Cables work scope and will return to site at a date to be confirmed.

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-G8 | 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° 55.582' 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° 50.585' 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° 54.588' 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

Seabed Activity

First Published: 30 November 2017 | Latest Update: 29 May 2018

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: 08 March 2018 | Latest Update: 29 May 2018

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.



The Ocean Vantage is anticipated to commence undertaking shallow geotechnical samples, involving 24 hour operations from 1 June 2018 at the earliest. The Ocean Observer left the site on 26 May 2018.

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.

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 |
|---|--|--|---|
| Gardline Limited MV Ocean Observer GHXX | | | Ocean Observer 21 st March 2018 |
| Gardline Limited, MV Ocean Vantage HP6188 | 58°19.627'N 002°34.035'W 57°40.627'N 002°31.583'W | 57°40.614'N 002°52.625'W 58°19.072'N 002°56.229'W | Ocean Vantage 30 th May 2018 Kommandor Stuart 27 th May 2018 |
| Bibby HydroMap Kommandor Stuart MPQH3 | | | For 105 Days |

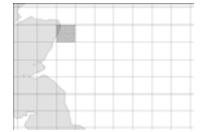
For further information: John Yorston, Moray Offshore Windfarm (East) Ltd, Tel: +44(0)131 556 7602 email: john.yorston@edpr.com

FLO Contact Details: Alexander West, Tel: +447989 808130 email: zander.west@btinternet.com

Notice to FishermenFirst Published: 22 February 2018 | **Latest Update: 22 February 2018****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**First Published: 08 March 2018 | **Latest Update: 03 May 2018****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 |

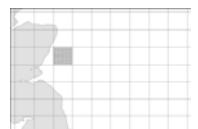
Wind Turbine & Foundation Installations

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: 25 May 2018****Seagreen Alpha and Bravo Wind Farms - 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.**

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

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

Notice to FishermenFirst Published: 31 May 2018 | **Latest Update: 31 May 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 FishermenFirst Published: 31 May 2018 | **Latest Update: 31 May 2018****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.

All vessels are requested to keep a safe distance of 200m around the locations below. Hornsea Project One will plan to carry out the controlled detonation of the confirmed UXO in the next 4-6 weeks. Another notice to mariners will be issued closer to the time of detonation works.

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 FishermenFirst Published: 08 March 2017 | **Latest Update: 26 April 2017****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: Length 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 duty-bound 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

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:

| Area 1 Coordinates | Area 2 Coordinates | Area 3 Coordinates | Area 4 Coordinates |
|----------------------------|---------------------------|----------------------------|----------------------------|
| 53° 30.804' N 0° 32.130' 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° 30.312' N 0° 32.436' 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° 31.970' N 0° 39.014' 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° 31.798' N 0° 40.098' 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° 36.111' N 0° 43.504' 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° 35.664' N 0° 44.013' 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° 37.493' N 0° 49.920' 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° 36.955' N 0° 49.968' 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° 37.352' N 0° 51.812' E | | 53° 52.961' N 1° 53.946' E | 53° 50.284' N 1° 47.307' E |
| 53° 36.819' N 0° 51.951' E | | 53° 52.620' N 1° 58.794' E | 53° 51.156' N 1° 47.925' E |
| 53° 37.925' N 0° 56.108' E | | 53° 52.088' N 1° 58.953' E | 53° 50.054' N 1° 48.132' E |
| 53° 37.401' N 0° 56.295' 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° 30.567' N 0° 30.420' E | 53° 37.789' N 0° 53.570' E |
| 53° 29.287' N 0° 25.142' E | 53° 30.070' N 0° 30.629' E | 53° 37.148' N 0° 53.775' E |
| 53° 30.666' N 0° 31.378' E | | 53° 38.020' N 0° 55.915' E |
| 53° 30.153' N 0° 31.639' 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 |
| | | 53° 30.759' N 0° 31.725' 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

Notice to Fishermen

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

Fishing Hazard – Cable Spans Along Greater Gabbard WF Export Cable

Map Link

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

Notice to Fishermen

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

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

Map Link

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



Seabed Activity

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

Sheringham Shoal Wind Farm – Maintenance

Please be aware that on the 31st May 2018 to 5th June 2018 the Sheringham Shoal Windfarm will be shutting down location OS1 (53°08.648N 001°07.236E) to facilitate essential maintenance which will in turn shut down 44 turbines .

Any associated structure lighting including charted navigation aids and fog signals will not be functioning during this period. Please navigate with extreme care during this period, particularly in poor visibility and during the hours of darkness. From 0800 on Thursday 31st May 2018 the safety of Navigation will be maintained by means of the use of Guard Vessels. During the night hours the guard vessel will be MPI SAMPSON – (Call Sign 2HEF2) and during daylight hours the guard vessel will be MPI ALTISIDORA – (Call Sign 2GYH5). Both vessels can be contacted via Ch16. This arrangement will continue until the works are complete.



For further information: Scira Marine : DD Tel: 01328 824356 Email: GM_sciramarine@equinor.com

Seabed Activity

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

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 in the first week of June.

| 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(0)1843 572136 email: Jennifer.munns@vattenfall.com



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 Guard Vessel Glomar Advance will continue guard vessel duties on East Anglia One Wind Farm, until Glomar Drifa returns to site.
- Heavy Lift vessel Bokalift will continue pile installation on East Anglia One Wind Farm.
- Olympic Taurus will continue pile cleaning on various locations.
- MTS Terramare to start UXO diving investigations on various locations on the export cable route.
- Tender 2 will support the MTS Terramare with near shore operations.
- Larissa will leave the project.
- Olympic Artemis to continue UXO investigation and EOD disposal and debris/boulder removal.
- Olympic Intervention will join the project
- GPS Battler to mobilise to assist the Terramare.
- Aethra will join the project circa the 31st May for UXO Investigation, to take over from the Olympic Artemis.

UXO Disposal

Please be advised that the Calmar shall commence an Identification and Explosive Ordnance Disposal (EOD) campaign starting on the 27th May 2018 until further notice. The vessel will conduct diving operations and removal by means of an underwater detonation.

The Calmar will make the following safety broadcasts: 4 hours before the planned EOD, a safety broadcast will be made on VHF CH 16. These broadcasts will be repeated every 30 minutes until 1 hour before the planned EOD. When within 1 hour of EOD, safety broadcasts will be made every 15 minutes. This will stop 10 minutes before the planned EOD time to which a final notification of the planned detonation will be given.

The Calmar has a 2000 m safety zone. All vessels are requested to keep clear. The Calmar can be contacted on VHF 16.

Please be advised the Aethra shall commence operations circa 7th June 2018 until further notice. The vessel will carry out an un-exploded ordnance investigation program within the windfarm limits and Export cable routes on the East Anglia one Wind Farm.

The Aethra can be contacted on VHF 16 and via the Guard Vessel Glomar Drifa.

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°16.547'N 002°33.295'E | 52°15.498'N 002°28.164'E | 52°18.770'N 002°33.920'E |
| 52°18.125'N 002°28.624'E | 52°15.730'N 002°33.763'E | 52°13.236'N 002°29.351'E | 51°59.788'N 001°25.955'E |
| 52°18.397'N 002°28.516'E | 52°18.610'N 002°34.039'E | 52°15.667'N 002°31.968'E | 52°11.100'N 002°28.618'E |
| 52°18.251'N 002°30.449'E | 52°18.788'N 002°33.930'E | 52°10.642'N 002°30.731'E | 51°59.647'N 001°26.064'E |
| 52°18.351'N 002°32.430'E | 52°19.474'N 002°33.631'E | 52°10.497'N 002°30.874'E | 51°59.449'N 001°26.219'E |
| 52°18.381'N 002°30.384'E | 52°11.547'N 002°12.908'E | 52°10.222'N 002°32.822'E | 52°11.367'N 002°12.567'E |
| 52°18.308'N 002°30.456'E | 52°10.912'N 002°06.912'E | 52°17.442'N 002°30.806'E | 52°13.786'N 002°27.185'E |
| 52°18.239'N 002°30.460'E | 52°16.028'N 002°27.845'E | 52°17.472'N 002°30.826'E | |
| 52°17.162'N 002°32.883'E | 52°18.352'N 002°30.331'E | 52°12.880'N 002°31.513'E | |
| 52°17.178'N 002°32.917'E | 52°15.688'N 002°28.028'E | 52°16.244'N 002°31.406'E | |

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

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: merlinjackson@btinternet.com or Anthony Mayhew / Steve Breeden, Dong Tel: +44(0)1206 307915 email: gfscoordinators@dongenergy.co.uk

Rampion Wind Farm – Installation and Operation

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

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

Deployment of Buoys

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

Norfolk Vanguard Offshore Wind Farm – Deployment of Wave Buoy

All Mariners are to be advised that a Metocean Measurement Campaign, primarily measuring waves and currents, is being conducted at one location in the north-east of the Norfolk Vanguard Offshore Wind Farm development zone.



Two Trinity House Guard Buoys were deployed on 10th May 2017 and will remain in position for three years. One surface Directional Waverider Buoy was deployed on 15th June 2017 and will remain in position for three years. In addition, one seabed frame-mounted AWAC will be deployed for one year from 6th May 2018.

| Equipment | Deployment | Recovery | Locations |
|--------------|----------------------------|---------------------------|-------------------------|
| Wave Buoy | 15 th June 2017 | 31 st May 2020 | 52°58.520'N 02°30.929'E |
| Guard Buoy 1 | 10 th May 2017 | 31 st May 2020 | 52°58.597'N 02°30.800'E |
| Guard Buoy 2 | 10 th May 2017 | 31 st May 2020 | 52°58.403'N 02°31.120'E |
| AWAC Lander | 6 th May 2018 | 31 st May 2019 | 52°58.461'N 02°31.023'E |

For further information: Chris Comyn (Project Manager) +44(0)7814 179324 email: chris.comyn@cefas.co.uk

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 | 50°23.059'N 05°38.241'W | OK |
| Wave Hub SE N18107 | AIS Station + 6m Focal Plane, White 7nm Light: VQ | 50°20.637'N 05°35.006'W | OK |
| Wave Hub Site – NW N18101 | South Cardinal – 3m Diameter Buoy | 50°22.791'N 05°37.943'W | OK |
| Wave Hub Site – NE N18102 | 6m Focal Plane, White 7nm Light: VQ(6)+LFI(1)10s | 50°22.999'N 05°35.901'W | OK |
| Wave Hub Site – SE N18106 | Special Mark – 3m Diameter Buoy | 50°20.894'N 05°35.378'W | OK |
| Wave Hub Site – SW N18105 | 4m Focal Plane, GPS Synchronised, Yellow 5nm Light: FL.Y.5s (Sync) | 50°20.541'N 05°37.196'W | OK |

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](tel:01736800291) email: Julius.besterman@wavehub.co.uk

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

Walney Extension Wind Farm – Construction

[Map Link](#)

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-Station, Z03 (section WOWO3) and Z04 (section WOWO4), are installed and commissioned.

Section WOWO3

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 WOWO4

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

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 (+ prttrs) | 9 Jan 2012 | Download |
| Walney 2 | 5 | 14km Walney Island | 51 | Orsted / SSE (+ prttrs) | 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 | Download |
| North Sea Central | Download |
| 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 |