

# The Kingfisher Bulletin

## Offshore News

RENEWABLE ENERGY

03 MAY 2018 | ISSUE 09

Shaded blocks indicate activity.

What's inside?

### New Hazards (-)

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#### Area 4 (p.14)

1. Deployment of Buoys

#### Area 5 (p.15)

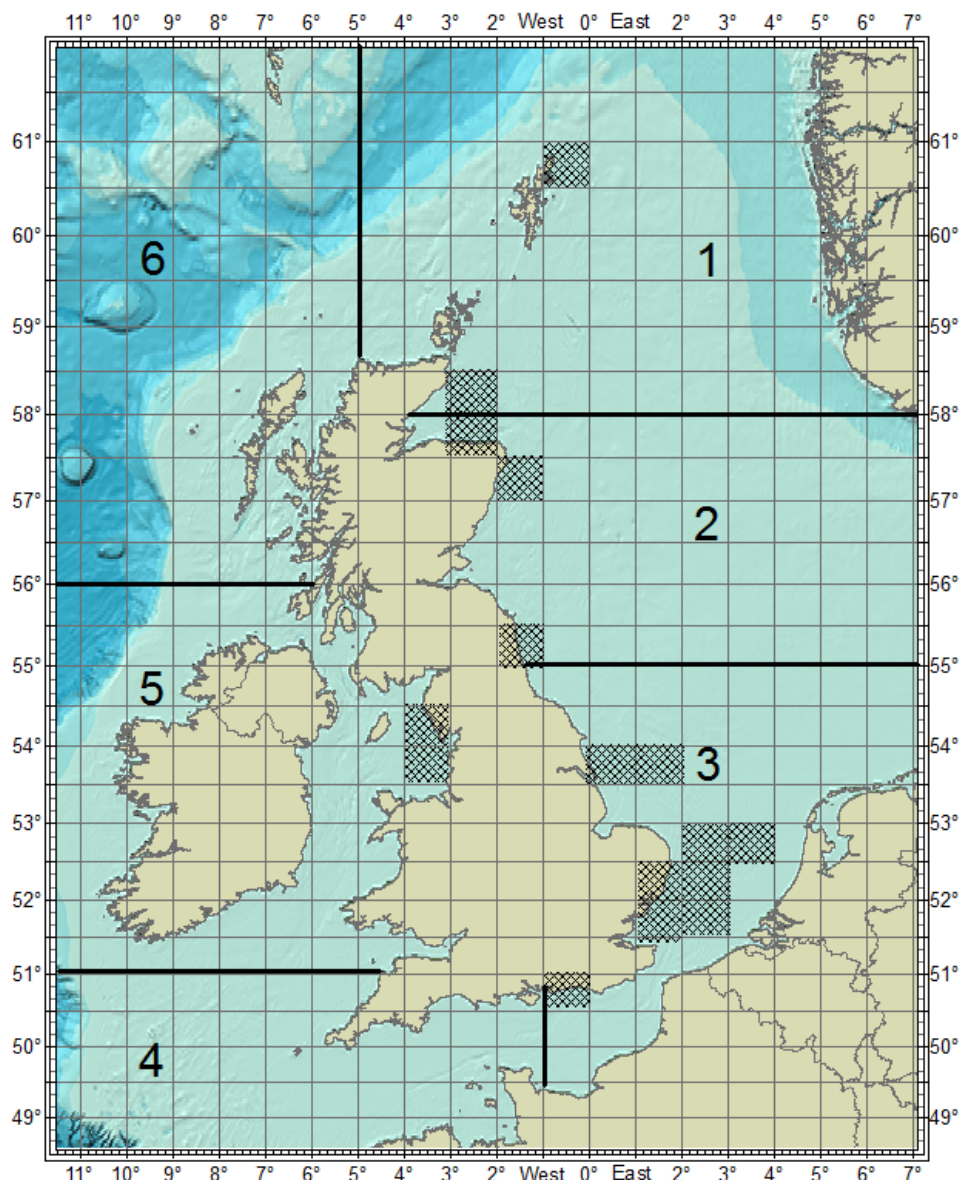
1. Seabed Activity

#### Area 6

1. N.A

#### Extra... (p.16)

1. Awareness Charts
2. Fishing Plotter Files



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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## Notice to Fishermen

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

### 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](mailto:dduckett@shl.nl)

## Deployment of Buoys

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

### Beatrice Offshore Windfarm Ltd – Moray Firth & Cromarty Firth

Mariners are advised that, further to notice UoA/01/2018 and in conjunction with Beatrice Offshore Windfarm Limited (BOWL), the University of Aberdeen has removed scientific equipment moorings in the Moray Firth from the locations listed.



Name	Coordinates (WGS84 datum)		Characteristics
41	57° 51.141' N	3° 33.018' W	Subsurface with acoustic release.
47	58° 00.817' N	3° 08.549' W	Subsurface.
48	58° 04.009' N	3° 06.916' W	Subsurface.
54	58° 13.520' N	2° 41.961' W	Subsurface.
56	58° 18.724' N	2° 37.062' W	Subsurface.
110	58° 07.668' N	2° 45.374' W	Subsurface.
159	58° 09.260' N	2° 52.234' W	Subsurface.
165	58° 12.478' N	3° 01.251' W	Subsurface.
183	58° 20.235' N	2° 50.708' W	Subsurface.
185	58° 11.356' N	2° 59.450' W	Subsurface with transponder.
190	58° 07.723' N	3° 07.467' W	Subsurface.

Mariners should note that the following existing moorings in the Moray Firth remain installed in their current locations

Name	Coordinates (WGS84 datum)		Characteristics
1	57° 41.413' N	3° 58.953' W	Subsurface
2	57° 35.133' N	4° 05.891' W	Surface marked (NB50 buoy, red)
3	57° 44.073' N	3° 19.776' W	Surface marked (dhan, 12' aluminium & RADAR reflector)
4	57° 41.357' N	3° 05.547' W	Surface marked (NB50 buoy, red)
17	57° 57.759' N	3° 31.260' W	Subsurface with acoustic release.
42	57° 52.337' N	3° 29.058' W	Subsurface with acoustic release.
45	57° 57.261' N	3° 16.084' W	Subsurface with acoustic release.
89	57° 56.056' N	3° 38.252' W	Subsurface with acoustic release.
108	58° 18.993' N	2° 59.223' W	Subsurface.
160	58° 17.648' N	2° 49.931' W	Subsurface with transponder.
161	58° 12.933' N	2° 55.954' W	Subsurface with transponder.
162	58° 18.176' N	2° 54.124' W	Subsurface with transponder.
164	58° 12.830' N	2° 51.669' W	Subsurface with transponder.

Mariners should also note that the following moorings were not found, and are considered lost:

Name	Coordinates (WGS84 datum)		Characteristics
40	57° 48.988' N	3° 36.379' W	Subsurface with acoustic release.
49	58° 04.450' N	3° 00.999' W	Subsurface.

The moorings support sound recording equipment, and acoustic loggers that record echolocation clicks of dolphins and porpoises.

For further information: Tim Candido Barton, University of Aberdeen [Tel:+44\(0\)1381 600548](tel:+44(0)1381600548) email: [t.r.barton@addn.ac.uk](mailto:t.r.barton@addn.ac.uk)

## Beatrice Offshore Windfarm Limited – Foundation Piling Operations

In preparation for the installation of wind turbine foundations in the Beatrice Offshore Windfarm construction site, piles have been installed in the seabed on each of the foundation locations outlined below.

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

On behalf of BOWL, CLV Nexans Skagerrak and Island Crown have now completed the pull-in of EC1 to OTM1. A Turn Point Anchor and Pull-In Bow have been temporarily stored on the seabed in the positions. Prior to the next second end pull-in of EC2 to OTM2 the Turn Point Anchor and Pull-In Bow will be moved to a position outside OTM 2.

Location	Coordinates
Turn Point Anchor	58°14.925'N 002°52.935'W
Pull in Bow	58°14.910'N 002°52.957'W

Pull-in cable lay

Location	Coordinates
KP 0.450 on EC2	57°40.143'N 003°02.655'W
KP 33 on EC2	57°57.598'N 003°02.661'W

For further information: John Bray – BOWL Lead Marine Coordinator, Tel: 0330 2020329, [mc.bowl@sse.com](mailto:mc.bowl@sse.com)

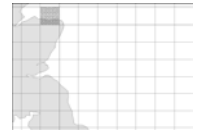
## Survey Activity

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

## Moray Offshore Wind Farm (East) Ltd – Geotechnical Site Investigations

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 three and a half months. Up to 4 vessels may be mobilised for this survey.

Geophysical surveys will be undertaken by the Ocean Observer using 24 hour operations. Equipment will be towed from the stern at up to 500 metres in length from the stern of the vessel down to a depth of 10 metres above the seabed. Other equipment will be hull mounted. The same vessel will be used to take shallow geotechnical samples, involving 24 hour operations. During the survey the vessel could be stationary for periods of up to one hour. The Ocean Vantage is anticipated to commence undertaking shallow geotechnical samples, involving 24 hour operations from 16 May 2018 at the earliest. Geophysical and geotechnical operations will alternate. Up to two port calls of 1-2 days duration are anticipated.



Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Gardline Limited MV Ocean Observer GHXX	58°19.627'N 002°34.035'W	57°40.614'N 002°52.625'W	21 <sup>st</sup> March 2018 For 105 Days
Gardline Limited MV Ocean Vantage HP6188	57°40.627'N 002°31.583'W	58°19.072'N 002°56.229'W	

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

FLO Contact Details: George Watson, Tel: +447845739416 email: [Georgewatson573@gmail.com](mailto:Georgewatson573@gmail.com)

## Survey Activity

First Published: 08 March 2018 | Latest Update: 12 April 2018

## Moray Offshore Wind Farm (East) Ltd – Geotechnical Site Investigations

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 three and a half months (80 survey days). Up to 4 vessels may be mobilised for this survey.

Geophysical surveys will be undertaken by the Ocean Observer over a period of approximately 50 days, using 24 hour operations. Equipment will be towed from the stern at up to 500 metres in length from the stern of the vessel down to a depth of 10 metres above the seabed. Other equipment will be hull mounted.

The same vessel will be used to take shallow geotechnical samples. This will involve 24 hour operations over a survey period of approximately 30 additional days. During the survey the vessel could be stationary for periods of up to one hour.

Geophysical and geotechnical operations will alternate. Up to two port calls of 1-2 days duration are anticipated. The Ocean Observer mobilised on 21 March 2018. A Fisheries Liaison Officer will be on board the Ocean Observer throughout the survey period.



Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Gardline Limited MV Ocean Observer GHXX	58°19.627'N 002°34.035'W	57°40.614'N 002°52.625'W	21 <sup>st</sup> March 2018 For 80 Days
	57°40.627'N 002°31.583'W	58°19.072'N 002°56.229'W	

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

FLO Contact Details: Alexander West, Tel: +447989 808130 email: [zander.west@btinternet.com](mailto:zander.west@btinternet.com)

## Survey Activity

First Published: 11 January 2018 | Latest Update: 03 April 2018

## Moray Offshore Wind Farm (East) Ltd – Geotechnical Site Investigations

Please be advised that Moray Offshore Windfarm (East) Limited (known as Moray East) is undertaking site investigations in the Moray East Wind Farm Site.

Moray East will have survey vessels working on site for approximately 163 survey days (including weather downtime) undertaking geotechnical boreholes.



Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Horizon Horizon GeoBay 3ETG2	58°19.380'N 002°44.280'W	58°03.960'N 002°54.780'W	6 <sup>th</sup> November 2018 For 163 Days
	58°13.140'N 002°34.260'W	58°12.600'N 002°52.440'W	
	58°08.100'N 002°34.200'W		

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

FLO Contact Details: Gordon Steven, Tel: +447771 575120 email: [gj\\_steven@hotmail.com](mailto:gj_steven@hotmail.com)

## Seabed Activity

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

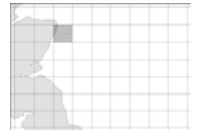
## Aberdeen OWF – Lost Clump Weight



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](mailto:esthervilloria.domibguez@vattenfall.com)

## Seabed Activity

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

## Aberdeen OWF – Wind Turbine Foundation Installations

Please be advised of the following activities proposed to be undertaken at the Aberdeen Offshore Wind Farm Site. Foundation Installation

Please note - All mariners are requested to maintain a minimum 1000m safety zone around each Vessels location.

Operation start date 2nd May 2018 (weather permitting)

Turbine WTG ID	Coordinates
Turbine 3 - AWF 03	57°14.010'N 001°59.371'W
Turbine 6 - AWF 06	57°13.203'N 002°00.013'W
Turbine 7 - AWF 03	57°13.465'N 001°59.274'W
Turbine 8 - AWF 08	57°13.809'N 001°58.450'W
Turbine 11 - AWF 11	57°12.960'N 001°59.151'W

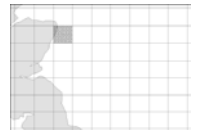
## Foundation Installations

Estimated time. Operation to be carried out over 24 hours, length of operation approximately 8 weeks from the 02/05/2018

The vessel Aegir - 3EYH5 has been selected to carry out this task along with The Isla B - MNVM2 shall be acting guard vessel, all mariners are asked to give the Aegir 1000 meters clearance.

\*The sequence for the Installation of the Foundations can change due to operational variables throughout this process\*

For further information: [aowf.marinecoordination@vattenfall.com](mailto:aowf.marinecoordination@vattenfall.com) <https://corporate.vattenfall.co.uk/eowdc>



## Seabed Activity

First Published: 04 April 2018 | Latest Update: 04 April 2018

## Aberdeen OWF – Dredging Works

Please be advised of the following activities proposed to be undertaken at the Aberdeen Offshore Wind Farm Project.

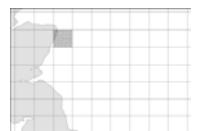
Please note - All mariners are requested to maintain a minimum 500m safety zone around the vessel Maun-Pekka that will be carrying out the dredging works to bury the subsea export cables, assisted by Tug vessel Dutch Power.

Dredging Works:

Coordinates	Installation
57°13.000'N 02°03.495'W to 57°12.815'N 02°03.220'W	05-04-18 to 30-04-18

Vessels: Maun-Pekka Call Sign:5BJH2 Dutch Power Call Sign:PBTZ

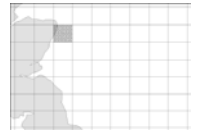
For further information: Aberdeen Marine Coordination office [aowf.marinecoordination@vattenfall.com](mailto:aowf.marinecoordination@vattenfall.com) <https://corporate.vattenfall.co.uk/eowdc>



## 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 &amp; 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

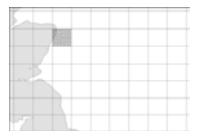
For further information: [aowf.marinecoordination@vattenfall.com](mailto:aowf.marinecoordination@vattenfall.com) <https://corporate.vattenfall.co.uk/eowdc>

## Survey Activity

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

## Kincardine OWF – UXO Survey

UXO survey of Kincardine Offshore Windfarm cable corridor and mooring locations in development site. Towed magnetometer instruments behind survey vessel Teal of Wick.



Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Teal of Wick & TBC	57°07.090'N 002°03.321'W 57°07.359'N 002°02.938'W 57°05.880'N 002°01.777'W 57°07.090'N 001°53.430'W 57°07.090'N 001°52.784'W 57°00.460'N 001°51.753'W	56°59.583'N 001°52.531'W 57°07.090'N 001°53.561'W 57°00.991'N 001°54.593'W 57°07.090'N 002°02.994'W 57°06.733'N 002°03.658'W	4th May 2018 For 7 Days

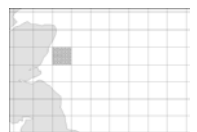
For further information: Richard Wakefield. Kincardine Offshore Wind Ltd, Tel: +44(0)7587 635 499 email: [rwf@niras.com](mailto:rwf@niras.com)

## Survey Activity

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

## Firth of Forth OWF - 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	56°42.000'N 001°58.000'W 56°42.000'N 001°28.000'W	56°32.000'N 001°28.000'W 56°31.000'N 001°58.000'W	Mid May 2018 For 65 Days

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

## Notice to Fishermen

First 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
<b>KP 23: Length 200m</b>	<b>52°59.730'N 000°22.580'E to 52°59.770'N 000°22.740'E</b>
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](mailto:hywro@dongenergy.co.uk)  
Website: <http://www.dongenergy.com/en/Search?&k=race%20bank>

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

For further information: Merlin Jackson email: [merlinjackson@btinternet.com](mailto: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)



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](mailto:merlinjackson@btinternet.com) Tel: 07989520484



Hornsea Offshore Wind Farm – Export Cable Open Trenches



HOW01 wish to inform mobile gear fishermen that trenching works and cable laying is ongoing within the HOW01 export cable corridor. 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). Works are ongoing and this information will be promulgated through weekly notice of operations.



Open Trench areas:

Cable Laid (exposed) areas

Area 1 Coordinates	Area 2 Coordinates	Area 1 Coordinates	Area 2 Coordinates
53° 37.987'N 0° 56.533'E	53° 44.888'N 1° 24.552'E	53° 30.804' N 0° 32.130' E	53° 30.014' N 0° 04.025' E
53° 37.472'N 0° 56.753'E	53° 44.263'N 1° 24.873'E	53° 30.312' N 0° 32.436' E	53° 29.875' N 0° 04.813' E
53° 38.775'N 1° 02.268'E	53° 46.624'N 1° 42.295'E	53° 31.970' N 0° 39.014' E	53° 31.396' N 0° 05.799' E
53° 38.133'N 1° 02.519'E	53° 47.390'N 1° 46.068'E	53° 31.798' N 0° 40.098' E	53° 30.927' N 0° 06.249' E
53° 42.915'N 1° 14.662'E	53° 47.967'N 1° 46.047'E	53° 36.111' N 0° 43.504' E	53° 31.440' N 0° 06.549' E
53° 42.326'N 1° 14.847'E	53° 48.024'N 1° 51.708'E	53° 35.664' N 0° 44.013' E	53° 31.128' N 0° 06.735' E
53° 42.946'N 1° 15.972'E	53° 48.519'N 1° 51.559'E	53° 37.493' N 0° 49.920' E	
53° 42.358'N 1° 16.279'E	53° 47.134'N 1° 42.000'E	53° 36.955' N 0° 49.968' E	
53° 44.583'N 1° 23.354'E		53° 37.352' N 0° 51.812' E	
53° 44.048'N 1° 23.732'E		53° 36.819' N 0° 51.951' E	
		53° 37.925' N 0° 56.108' E	
		53° 37.401' N 0° 56.295' E	

Expected Cable Lay areas:

Cable Buried area:

Area 1 Coordinates	Area 2 Coordinates	Area 3 Coordinates	Area 1 Coordinates
53° 28.576' N 0° 20.037' E	53° 47.172' N 1° 41.782' E	53° 52.961' N 1° 53.946' E	53° 32.131' N 0° 12.218' E
53° 29.115' N 0° 20.084' E	53° 50.284' N 1° 47.307' E	53° 53.375' N 1° 50.922' E	53° 31.595' N 0° 12.114' E
53° 30.709' N 0° 31.403' E	53° 50.054' N 1° 48.132' E	53° 52.833' N 1° 50.921' E	53° 30.950' N 0° 6.406' E
53° 30.202' N 0° 31.643' E	53° 51.156' N 1° 47.925' E	53° 52.982' N 1° 48.785' E	53° 31.462' N 0° 6.133' E
53° 29.906' N 0° 16.570' E	53° 50.698' N 1° 48.464' E	53° 52.442' N 1° 48.786' E	53° 31.449' N 0° 14.681' E
53° 30.286' N 0° 17.088' E	53° 51.548' N 1° 50.956' E	53° 53.638' N 1° 44.440' E	53° 30.976' N 0° 14.244' E
	53° 51.061' N 1° 51.350' E	53° 53.030' N 1° 44.518' E	53° 30.211' N 0° 17.304' E
	53° 52.567' N 1° 53.016' E	53° 53.670' N 1° 42.618' E	53° 29.785' N 0° 16.770' E
	53° 52.409' N 1° 53.961' E	53° 53.182' N 1° 42.819' E	
	53° 47.591' N 1° 44.126' E	53° 52.961' N 1° 53.946' E	
	53° 44.577' N 1° 26.489' E	53° 52.088' N 1° 58.953' E	
	53° 45.107' N 1° 26.415' E	53° 52.620' N 1° 58.794' E	
	53° 46.666' N 1° 42.099' E	53° 52.625' N 2° 1.257' E	
	53° 47.944' N 1° 43.433' E	53° 53.147' N 2° 1.029' E	
		53° 52.686' N 2° 3.670' E	
		53° 53.236' N 2° 3.693' E	
		53° 52.359' N 2° 6.081' E	
		53° 52.828' N 2° 6.488' E	

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

Seabed Activity

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

## Seabed Activity

First Published: 04 April 2018 | Latest Update: 04 April 2018

## London Array Wind Farm – Inter array Cable Repairs

Map Link

Please be advised that Stemat-82 Call Sign: 5BYU4 on behalf of London Array, will be conducting inter array cable repairs on cable (G15-F15).



As part of this work, cable extraction, and replacement will be undertaken using, divers, de-burial systems within the London Array Wind Farm.

Stemat-82 Cable Lay Barge has a length of 80.00m and breadth of 28.00m. The Stemat-82 uses an eight-point mooring system. The Stemat-82 will control the cable repairs throughout the work utilising a variety of systems and techniques. These will include diving and de-burial operations whilst on anchors.

The Stemat-82 will be supported by four vessels, two conducting anchor operations, two as a crew transfer vessel. A small dive RIB will also be deployed as required to assist in the work.

ISA Call Sign: PBPBG; Panda Call Sign: PCOA; Windcat 39 Call Sign: 2JAV6; Spectrum 1 Call Sign: 2CQX5

The works is expected to commence on the 15th April 2018 and continue for approximately 5 weeks. During this period, a 750m radius restricted zone will be put in place centred on the following locations:

- G15: 51°38.307'N 001°28.749'E

During diving operations, a 500m exclusion zone will implemented at the required dive location, but within the designated restricted zones.

It should be noted that up to 8 anchors will be used at various locations within the 750m exclusion zone which will be determined by operational requirements.

For further information: Duty Marine Coordinator, Tel: +44 (0) 1843 855795 email: [marinecoordinators@londonarray.com](mailto:marinecoordinators@londonarray.com)

## Seabed Activity

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

## Greater Gabbard Offshore Wind Farm – Jack Up Vessel Operations

Jack-up vessel Enterprise will be conducting major component exchanges at Greater Gabbard offshore windfarm. The vessel will be in operation at 1 location in the Inner Gabbard field and 2 locations in the Galloper field.



Site work is planned to commence between 04May 2018 and 14May 2018 (subject to weather delays).

Enterprise - PCZJ will be supported by crew transfer vessel, Icen Venture – 2IAF7

Description of works:

The following wind turbines and co-ordinates are where the operations will take place.

Asset	Co-ordinates
IGA01	51°57.264'N 01°52.482'E
GAC06	51°45.762'N 01°56.645'E
GAA02	51°46.494'N 01°55.612'E

A 500 meters exclusion zone will be in force around the jack-up vessel Enterprise at all times, if you need to approach the vessel please contact them on VHF ch16.

For further information: Jonathan Brown & May email: [jonathan@brownmay.com](mailto:jonathan@brownmay.com)

## Seabed Activity

First Published: 08 February 2018 | Latest Update: 01 May 2018

## East Anglia One Offshore Wind Farm – Unexploded Ordnance Disposal

Please be advised that the Go Electra Call Sign: V7ZR6 shall commence an Explosive Ordnance Disposal (EOD) campaign starting on the 2nd May 2018 until further notice.



The vessel will conduct operations and removal by means of an underwater detonation. The Go Electra 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 Go Electra has a 2000 m safety zone. All vessels are requested to keep clear. The Go Electra can be contacted on VHF 16.

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°18.308'N 002°30.456'E	52°10.912'N 002°06.912'E	52°17.442'N 002°30.806'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](mailto:gfarrant@scottishpower.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 <sup>th</sup> June 2017	31 <sup>st</sup> May 2020	52°58.520'N 02°30.929'E
Guard Buoy 1	10 <sup>th</sup> May 2017	31 <sup>st</sup> May 2020	52°58.597'N 02°30.800'E
Guard Buoy 2	10 <sup>th</sup> May 2017	31 <sup>st</sup> May 2020	52°58.403'N 02°31.120'E
AWAC Lander	6 <sup>th</sup> May 2018	31 <sup>st</sup> 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](mailto:chris.comyn@cefas.co.uk)

## East Anglia One Offshore Wind Farm – Construction Commencement

Please be advised the Olympic Taurus Call Sign: LDXA shall commence works dredging, grouting and cleaning of piles within the windfarm limits bounded by EA ONE construction buoyage circa 29th of March 2018 until further notice.



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

Please be advised that the vessel Silver Harvester will be deploying noise monitoring equipment in the location:

52°13.389'N 002°32.723'E

Please be advised that forthcoming works are due to take place at the locations detailed in the table below for concrete matting works at the following 9 No. cable crossing points:

Asset Name	Coordinates	KP	Water Depth
Farland FOC	52°05.338'N 001°45.489'E	27.54	27m
Greater Gabbard Export cable (Western)	52°05.765'N 001°46.118'E	28.607	28m
Greater Gabbard Export cable (Central)	52°05.787'N 001°46.166'E	28.676	28m
Greater Gabbard Export cable (Eastern)	52°05.814'N 001°46.225'E	28.76	28m
Galloper Export 1	52°06.047'N 001°46.731'E	29.48	28m
Galloper Export 2	52°06.063'N 001°46.766'E	29.53	28m
Concerto South	52°09.058'N 001°57.011'E	42.681	37m
Atlantic 1	52°11.465'N 002°10.594'E	59.138	43m
Bacton – Zeebrugge Pipeline	52°12.143'N 002°23.517'E	74.185	47m

Construction activities will commence Circa the 6th April for 14 days, weather permitting.

Construction Vessel Edda Freya Call Sign: LKRV3 will carry out the mattress installation and can be contacted on VHF Channel 16.

For further information: Graham Farrant, Tel: 0141614290 or 7834 603291 email: [gfarrant@scottishpower.com](mailto:gfarrant@scottishpower.com)

## Galloper Wind Farm – Fishing Hazard & Exposed Cable

[Map Link](#)

Please be advised that the Multi-Cat "Coastal Chariot" PCWZ is expected to commence operations at Galloper Offshore Windfarm circa 15th December 2017 until further notice.



The vessel will be conducting Subsea cable works in the vicinity of Sizewell beach (approximately 300m at nearest point). A wide berth is requested when passing this vessel during operations The vessel can be contacted on VHF Channel 16.

For reference, the cable could be envisaged to be bound by a box with the corners at the following coordinates,-

52°12.372'N 001°37.394'E  
 52°12.359'N 001°37.392'E  
 52°12.392'N 001°37.543'E  
 52°12.369'N 001°37.550'E

### Fishing Hazard

4.5 tonnes. Position: 51°57.077'N 002°01.141'E  
 4.6

The Secretary of State has approved the Application of Safety Zones on the Galloper Wind Farm project. These are defined as:

1. A Statutory 500m Safety Zone at the location of each wind turbine, offshore sub-station and their foundations whilst work is being performed, as indicated by the presence of construction vessels;
2. A Statutory 50m Safety Zone around all structures until construction and commissioning is completed.

All Vessels not involved in construction are prohibited from entering or remaining in the Safety Zones.

During the commissioning process, construction vessels will be coming and going from the Site frequently. The 500m Safety Zone will therefore be in force around various assets on the site, dependent on which area is being worked on and it may not be obvious when the 500m safety zone will come into effect. In the interests of reducing the navigational risk, all vessels are advised to remain well clear of 500m safety zones at all times and to avoid doing anything that may interfere with or obstruct the commissioning process.

For further information: Lee Cornwell, Galloper Wind Farm Limited, Mob: +44 (0)7917 474352, Email: [lee.cornwell@rwe.com](mailto:lee.cornwell@rwe.com)

Rampion OWF – Export Cable Boulder Clearance/UXO/Array/WTG Cable

Map Link

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	

Please note that ATon on Wave rider 1 and 3 is extinguished

Buoy	Current Position	Re-deployed Position
#1 KP5	50°46.555'N 00°19.071'W	50°46.547'N 00°18.864'W
#2 EOS	50°41.394'N 00°16.146'W	50°41.394'N 00°16.146'W
#3 Array	50°40.203'N 00°12.950'W	50°40.059'N 00°12.195'W

Wave rider 1 and 3 will be relocated

**Inter Array Cables - exposed sections**

All inter array cables have now been installed. There are some sections of the installed inter array cables that are currently either shallow buried or exposed on the seabed. The shallow buried/exposed sections of cable could represent a significant hazard to fishing vessels and their gear (if fishing gear is deployed over them) and any vessels anchoring over them. Cable hazards will remain until completion of cable protection works planned for Q4 2017 and Q1 2018.

**Hazardous Areas:**

Hazard Area 1	Hazard Area 2	Hazard Area 3
50°48.875'N 00°20.141'W	50°44.703'N 00°18.914'W	50°43.711'N 00°18.308'W
50°48.928'N 00°19.972'W	50°44.724'N 00°18.747'W	50°42.872'N 00°17.117'W
50°47.587'N 00°18.982'W	50°44.453'N 00°18.664'W	50°42.481'N 00°17.677'W
50°46.778'N 00°18.573'W	50°44.434'N 00°18.834'W	50°43.179'N 00°18.919'W
50°46.683'N 00°18.981'W		50°43.432'N 00°18.985'W
50°47.517'N 00°19.259'W		

- The Wind Farms requests, all such Gears DO NOT come within 500m of the exposed/shallow buried cables (as indicated above)
- The Wind Farms requests, mobile or towed demersal fishing gears (trawls, shellfish dredgers etc) gears DO NOT come within the vicinity of the cables in locations outside of these defined hazard areas.
- Furthermore, interaction between fishing gear (OR anchors) and the export cables could also cause damage to the export cables themselves. All mariners are requested NOT to anchor within 100m of the export cables and to make themselves aware of their obligations for conducting activities over buried cable.

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

## North Coast of Cornwall – Wave Hub Aids to Navigation

Please be advised that the previously notified clean swept Wave Hub South East Special Mark (site boundary marker) was replaced on the 13th March 2018. All Wave Hub operated navigation marks are currently on station, in good order and functioning correctly.



It is respectfully requested that fishermen maintain a 250m clearance where possible from Wave Hub Aids to Navigation to avoid fouling of the catenary moorings.

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

**For further information:** Julius Besterman, Wave Hub Limited, [Tel:01736 800291](tel:01736800291) email: [Julius.besterman@wavehub.co.uk](mailto:Julius.besterman@wavehub.co.uk)

## 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.

All 40 of the Wind Turbine Generators in this section of the Wind Farm are installed, commissioning work in this section is ongoing as weather and conditions permit, 39 Turbines have been commissioned and are providing power to the national grid.

All 47 Mono-piles complete with the Transition Piece are installed in this section of the Wind Farm and work is progressing on the installation of the Tower sections, Nacelles and Blades (WTGs) as well as commissioning work, again 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

MAINTENANCE WORK - TURBINE POSITIONS C03 & F04

The Self Propelled Jack-up vessel 'BRAVE TERN' can be expected to arrive on site on 3<sup>rd</sup> May 2018 to carry out maintenance works at Turbine position D02

'BRAVE TERN' will be supported by the CTV 'BOOSTER' and dependant on weather and conditions this work is expected to take 1/3 days from when the work commences.

D02 Turbine position is in the section identified as WOWO3 and attached with this notice is the small chartlet which shows the layout of the WALNEY WIND FARM EXTENSION (WOWO3+4) with the section WOWO3 clearly marked.

There is also a picture of 'BRAVE TERN' as well as the CVT 'BOOSTER'.

This work is not expected to interfere with any other vessels but a wide berth, minimum 500 meters, is requested around 'BRAVE TERN' at all times while on site and especially when it can be seen that the vessel is afloat and manoeuvring into position

There are now only two Guard Vessels engaged :

'KARIMA' is primary Wind Farm Site,

'FAIRLINE SURVEYOR' secondary Wind Farm site/Export Cable

'KARIMA' will conduct 6 hourly Securite broadcasts informing Mariners of site relevant safety information, these will be announced on VHF Channel 16 and broadcast will take place on VHF channel 67 at 06:00, 12:00, 18:00 & 00:00. If required

'KARIMA' can be contacted on VHF Channels 16 & 12 for information relating to any Cable Lay, Cable Pull In, Turbine Installation or vessel movement.

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

## Deployment of Buoys

First Published: 08 February 2018 | Latest Update: 13 April 2018

## Shell Flats Bank – Removal of Two Met Masts

Both masts have been removed and the seabed where the Masts were situated is clear of any debris.

No.1 80m Mast: 53°52.423'N 003°12.133'W

No.2 50m Mast: 53°51.600'N 003°17.663'W



*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	<a href="#">Download</a>
Blyth	2	1km N.E Coast	2	E.ON	-	<a href="#">Download</a>
Burbo Bank	5	5.2km Crosby	25	Orsted	27 Oct 2007	<a href="#">Download</a>
Dudgeon	3	38km Outer Wash	67	Statkraft / Statoil	-	<a href="#">Download</a>
Greater Gabbard	3	26km off Orford, Sufflk	140	SSE & RWE Npower / Innogy	7 Sept 2012	<a href="#">Download</a>
Gwynt y Mor	5	13km off N Wales Cst	160	RWE Innogy / SWM	18 Jun 2015	<a href="#">Download</a>
Gunfleet Sands 1, 2 & 3	3	8.5km off Clacton-On-S	50	Orsted	19 April 2010	<a href="#">Download</a>
Humber Gateway	3	8km off Holderness Cst	73	E.ON UK	5 Jun 2015	<a href="#">Download</a>
Hywind	2	25km off Peterhead	5	Statoil	-	<a href="#">Download</a>
Inner Dowsing	3	5km off Skegness	27	Siemens	30 Mar 2009	<a href="#">Download</a>
Kentish Flats	3	9km off Whitstable	30	Vattenfall	1 Oct 2015	<a href="#">Download</a>
Lincs	3	8km off Skegness	75	Centrica	10 Oct 2013	<a href="#">Download</a>
London Array	3	24km off Clacton-on-S	175	Orsted	1 May 2013	<a href="#">Download</a>
Lynn	3	5km off Skegness	27	Siemens	30 Mar 2009	<a href="#">Download</a>
North Hoyle	5	7.5km off Prestatyn	30	RWE Innogy UK	1 Dec 2003	<a href="#">Download</a>
Race Bank	3	27km Lincolnshire	91	Orsted	-	<a href="#">Download</a>
Ormonde	5	off Walney Island	30	Vattenfall	22 Feb 2012	<a href="#">Download</a>
Rampion	3	Off Sussex Coast	116	E.ON UK Renewables	-	<a href="#">Download</a>
Rhyl Flats	5	8km Abergele	25	RWE Innogy UK	2 Dec 2009	<a href="#">Download</a>
Robin Rigg	5	9.5km Maryport	60	E.ON UK Renewables	16 Apr 2010	<a href="#">Download</a>
Scroby Sands	3	3km NE Great Yarmth	30	E.ON UK Renewables	1 Mar 2004	<a href="#">Download</a>
Sheringham Shoal	3	Sheringham, Grtr Wash	88	Statkraft / Statoil	27 Sep 2007	<a href="#">Download</a>
Teesside	3	1.5km NE Teesmouth	27	EdF ER	1 Aug 2013	<a href="#">Download</a>
Thanet	3	11km Foreness Point	100	Vattenfall	23 Sept 2010	<a href="#">Download</a>
Walney 1	5	14km Walney Island	51	Orsted / SSE (+ prttrs)	9 Jan 2012	<a href="#">Download</a>
Walney 2	5	14km Walney Island	51	Orsted / SSE (+ prttrs)	9 Jan 2012	<a href="#">Download</a>
West of Duddon Sands	5	14km Walney Island	108	Scottish Power / Orsted	30 Oct 2014	<a href="#">Download</a>
Westermost Rough	3	25km north of Spurn P	35	Orsted	26 Mar 2015	<a href="#">Download</a>

## National Awareness Charts

Chart	Link
North Sea North & West	<a href="#">Download</a>
North Sea Central	<a href="#">Download</a>
North Sea South	<a href="#">Download</a>
English Channel	<a href="#">Download</a>
South Western Approaches	<a href="#">Download</a>
Irish Sea	<a href="#">Download</a>
Baltic North	<a href="#">Download</a>
Baltic South	<a href="#">Download</a>

## National Fishing Plotter Files

File	Link
Kingfisher Fishing Plotter Files – KIS-ORCA January 2018 (Subsea Cables and Wind Farms)	<a href="#">Download</a>