

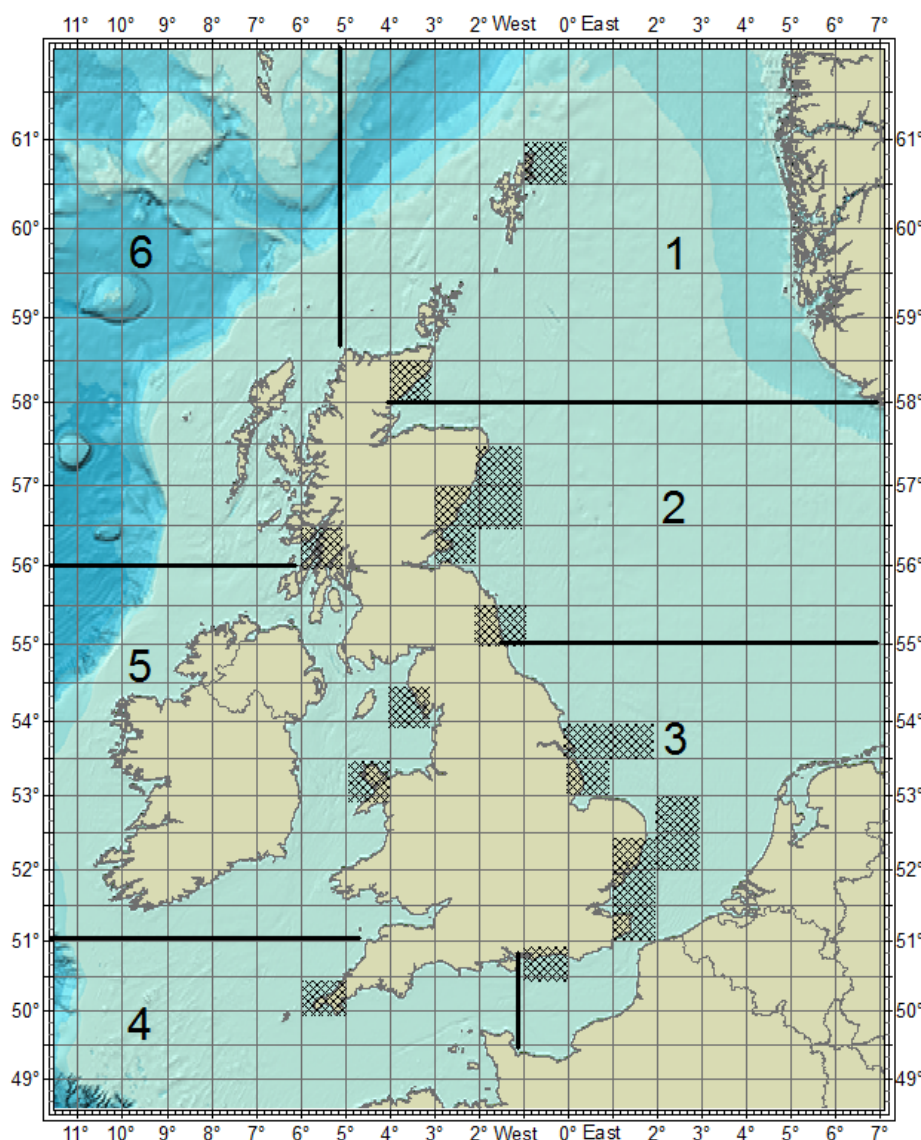
# The Kingfisher Bulletin

## Offshore News

RENEWABLE ENERGY

26 JULY 2018 | ISSUE 15

Shaded blocks indicate activity.



What's inside?

### **New Hazards** (p.3)

#### **Area 1** (p.4-5)

1. Notice to Fishermen
2. Seabed Activity
3. Survey Activity

#### **Area 2** (p.6-8)

1. Seabed Activity
2. Survey Activity

#### **Area 3** (p.9-14)

1. Notice to Fishermen
2. Seabed Activity
3. Survey Activity
4. Deployment of Buoys

#### **Area 4** (p.15)

1. Deployment of Buoys

#### **Area 5** (p.16-17)

1. Seabed Activity

#### **Area 6** (p.18)

1. Notice to Fishermen

#### **Extra...** (p.19)

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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## New Hazards




### Area 1 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Murchison Wellhead Protection Structure 7.5m x 7.5m x 7.5m Well 211/19-2	61°23.382'N 01°44.050'E	03 May 2018	<a href="mailto:Carolyn.Toshney@cnrl.com">Carolyn.Toshney@cnrl.com</a>	
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: <a href="mailto:david.colliard@total.com">david.colliard@total.com</a>	
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: <a href="mailto:R.Hall@sff.co.uk">R.Hall@sff.co.uk</a>	

### Area 3 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Anchor approx. 3.5m x 1.8m	50°41.147'N 000°17.657'W	28 June 2018	Gordon Bain (Eon Marine Coordination) +44(0)7787241442	
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	

## 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.



## Inter Array Cable Cable Installation

The CLV Seaway Aimagery will install 41 inter array cables during the third cable installation campaign. The cables will be laid and buried between the Wind Turbine Generator (WTG) & Offshore Transformer Module (OTM)

Three trenching trial cables have been surface laid and secured by clump weights. These trial cables will be trenched / recovered during the third cable installation campaign during July / August 2018.

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](mailto:info@novainnovation.com)

## Survey Activity

First Published: 08 March 2018 | Latest Update: 26 July 2018

## Moray Wind Farm (East) – Geophysical &amp; 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 (150 survey days, excluding weather downtime). Up to 4 vessels may be mobilised for this survey.



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
Bibby HydroMap Kommandor Stuart MPQH3	58°19.849'N 002°50.458'W 58°19.301'N 002°30.461'W	58°02.409'N 002°34.944'W 58°02.946'N 002°54.796'W	21 <sup>st</sup> March 2018 For 150 Days

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

FLO Contact Details: Kommandor Stuart: Ian Scott, Tel: +447534 122239, email: [ianscott2001@hotmail.com](mailto:ianscott2001@hotmail.com)

## Survey Activity

First Published: 26 July 2018 | Latest Update: 26 July 2018

## Moray Wind Farm (East) – Met Mast Maintenance

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) will be undertaking inspection works on the Moray East offshore meteorological mast. The works are anticipated to commence on 31 July 2018 at the earliest, with an anticipated duration of 2 days working 12 hours



Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Moray First Marine Ltd, Waterfall, 1001130429	58°10.928'N 002°49.215'W		31 <sup>st</sup> July For 2 days

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)

## Notice to Fishermen

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)



## Survey Activity

First Published: 28 June 2018 | **Latest Update: 12 July 2018**

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

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

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

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

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

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

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



## Survey Activity

First Published: 12 July 2018 | **Latest Update: 20 July 2018**

### Inch Cape Offshore Wind Farm – Met Mast Maintenance

Please be advised that Wood Group, on behalf of Inch Cape Offshore Limited, will be undertaking maintenance works on the Inch Cape Offshore Met Mast, commencing between 24th July. The work is expected to last 1 to 2 days, weather dependent.

During these works the MTSL Avocet will operate from port to the works location (56° 26.404 N; 2° 14.489 W). The vessel will remain on site during the works and will then return to port.

Company, Vessel & Call Sign	Survey Area	Survey Area	Start Timeframe & Duration
Minerva			
MTSL Avocet Falcon	56°26.404'N 002°14.489'W		Start between 24th July 1 to 2 days

For further information: Nigel McCoy, Inch Cape Offshore Limited Tel: +44 (0) 131 557 7105 email: [nigel.mccoy@RedRockPower.co.uk](mailto:nigel.mccoy@RedRockPower.co.uk)



## Survey Activity

First Published: 12 July 2018 | Latest Update: 12 July 2018

## Seagreen Alpha and Bravo Wind Warms - Survey

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

Company, Vessel & Call Sign	Survey Area		Survey Area		Start Timeframe & Duration
Gardline Ocean Vantage	1.	56°40.900'N 001°56.6361'W	3.	56°31.732'N 001°28.7025'W	24/07/18 For 82 Days
	2.	56°30.529'N 001°56.7745'W	4.	56°40.817'N 001°34.7606'W	



For further information: Nick Brockie, SSE, Tel: +44 0141 2247152 email@ [nick.brockie@sse.com](mailto:nick.brockie@sse.com)

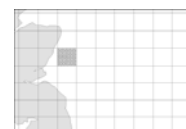
## Survey Activity

First Published: 03 May 2018 | Latest Update: 10 July 2018

## Seagreen Alpha and Bravo Wind Warms - Survey

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

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



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

## Survey Activity

First Published: 12 July 2018 | Latest Update: 26 July 2018

## Neart na Gaoithe Offshore Wind Farm (Firths of Forth and Tay) – Unexploded Ordnance and Geotechnical Surveys

Please be advised that survey vessels will be working within the boundaries of the Neart na Gaoithe Offshore Wind Farm Site for approximately 99 days, up to three vessels will be present on site at any one time.

An unexploded ordnance survey will last approximately 22 days. Up to two vessels will be present on site at any one time. During the survey, equipment will be towed approximately 135 - 155 metres behind the stern of the vessel down to a depth of no more than 5 metres above the seabed.

A geotechnical survey comprised of cone penetration tests and boreholes will last approximately 90 days. Up to three vessels will be present on site at any one time. During the survey, the vessel will hold on station and display the relevant RAM markings during periods of restricted manoeuvrability.

A Fisheries Liaison Officer will be present offshore at all times.

Company, Vessel & Call Sign	Survey Area		Survey Area		Start Timeframe & Duration
UXO Survey: Prince Madog ZNLJ5	56°15.271'N 002°09.898'W		56°15.827'N 002°20.055'W		UXO survey (~22 days) Start ~ 3 August 2018; End ~ 24 August 2018.
Geotechnical	56°12.721'N 002°09.255'W		56°17.430'N 002°20.232'W		
Survey:	56°12.752'N 002°13.998'W		56°19.752'N 002°17.826'W		Geotechnical survey (~90 days) Start ~ 12 August 2018; End ~ 9 November 2018.
Omalius	56°12.766'N 002°16.293'W		56°20.312'N 002°16.518'W		
ORRS	56°15.479'N 002°19.628'W		56°20.171'N 002°14.910'W		
Thor DIAV2					



For further information: Neart na Gaoithe Offshore Wind Limited (Rosie Scurr on +44 (0) 7967445717 or at [Rosie.Scurr@edf-re.uk](mailto:Rosie.Scurr@edf-re.uk))

## Survey Activity

First Published: 14 June 2018 | Latest Update: 24 July 2018

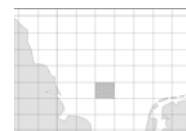
## Kincardine Offshore Wind Farm – Mooring Installation Turbine

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

It is anticipated that the installation will take place between 25<sup>th</sup> July 2018 & 30<sup>th</sup> July 2018

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

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



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

## Deployment of Buoys

First Published: 26 July 2018 | Latest Update: 26 July 2018

## Blyth Offshore Wind Farm – Flidar Deployment

AXYS Technologies will be deploying a metocean buoy ('FLiDAR WindSentinel') at the National Renewable Energy Centre (NaREC) within the vicinity of the Meteorological Mast, offshore Blyth.

The buoy is painted to IALA standard and has an amber navigation light set to flash 5 times at 1Hz every 20 seconds.

Deployment operations are planned for Monday 23rd 2018, subject to metocean conditions. The buoy will be in place for approximately 6 weeks.

All equipment (including ground weights) will be removed at the end of the study.

Coordinates
55°08.725'N 001°25.151'W



For further information: Saul Reynolds AXYS Technologies Tel: +44 (0) 7876 560 141 email: [sreynolds@axys.com](mailto:sreynolds@axys.com)

## Deployment of Buoys

First Published: 26 July 2018 | Latest Update: 26 July 2018

## Aberdeen Offshore Wind Farm – Metocean Deployment

This notice is to confirm that the Metocean Measurement Campaign, primarily measuring waves and currents, that was being conducted within the construction area of Aberdeen Offshore Wind Farm is now complete and the Wave-Rider Buoy will not now be redeployed.

The Wave-rider Buoy was equipped with an antenna mounted integrated LED flasher, emitting 5 yellow flashes every 20 seconds.

ID	Coordinates	Approx Depth
WVR01	57°13.457'N 001°59.900'W	-25



Vessels: Guard Vessel Isla-B Call sign MNVM2

For further information: [aowf.marinecoordination@vattenfall.com](mailto:aowf.marinecoordination@vattenfall.com)

**Notice to Fishermen**First Published: 28 June 2018 | **Latest Update: 28 June 2018****Fishing Hazard – Rampion OWF Anchor** [Map Link](#)

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

50°41.147'N 000°17.657'W



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

**Notice to Fishermen**First 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 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](mailto:dnorth@scottishpower.com)

**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°12.284'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: 08 March 2017 | **Latest Update: 26 April 2017****Race Bank Offshore Wind Farm – Exposed Export Cable Sections** [Map Link](#)

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:**

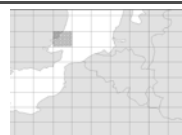
Section	Centre Position
KP 11: Length 895m x Width 100m	52°54.281'N 000°16.413'E
<b>KP 23: Length 200m</b>	<b>52°59.730'N 000°22.580'E to 52°59.770'N 000°22.740'E</b>
KP 25: Length 525m x Width 100m	53°00.266'N 000°24.230'E
KP 27: Length 365m x Width 100m - 170m	53°01.044'N 000°25.029'E
KP 28: Length 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)

**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.

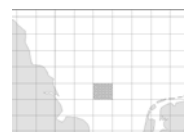


These are the following cables located in the eastern part of Gunfleet Sands 1 and the north eastern part of Gunfleet Sands 2.

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

## Hornsea Offshore Wind Farms – Export Cable Open Trenches &amp; 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	Area 3 Coordinates	Area 4 Coordinates
53° 42.745' N 1° 18.154' E	53° 52.191' N 2° 5.106' E	53° 31.307' N 0° 38.658' E	53° 36.428' N 0° 47.971' E
53° 43.326' N 1° 17.385' E	53° 52.485' N 2° 5.160' E	53° 31.898' N 0° 38.210' E	53° 36.768' N 0° 51.958' E
53° 44.016' N 1° 23.709' E	53° 52.756' N 2° 5.756' E	53° 32.138' N 0° 40.572' E	53° 36.907' N 0° 50.205' E
53° 44.377' N 1° 25.261' E	53° 52.089' N 2° 5.764' E	53° 32.198' N 0° 39.308' E	53° 36.918' N 0° 47.612' E
53° 44.583' N 1° 23.354' E	53° 52.410' N 2° 6.283' E	53° 35.243' N 0° 43.419' E	53° 37.302' N 0° 51.825' E
53° 44.915' N 1° 24.730' E		53° 35.519' N 0° 42.350' E	53° 37.412' N 0° 56.733' E
53° 45.466' N 1° 34.587' E		53° 35.862' N 0° 45.295' E	53° 37.445' N 0° 50.134' E
53° 45.978' N 1° 34.125' E		53° 36.464' N 0° 44.833' E	53° 37.992' N 0° 56.502' E
53° 46.624' N 1° 42.295' E			
53° 47.134' N 1° 42.000' E			
53° 47.390' N 1° 46.068' E			
53° 47.967' N 1° 46.047' E			
53° 48.003' N 1° 51.668' E			
53° 48.538' N 1° 51.557' E			
53° 49.428' N 2° 0.180' E			
53° 49.947' N 1° 59.989' E			
53° 42.745' N 1° 18.154' E			

**Cable Laid (exposed) areas:**

Area 1 Coordinates	Area 2 Coordinates	Area 3 Coordinates	Area 4 Coordinates
53° 29.729' N 0° 28.842' E	53° 37.412' N 0° 56.423' E	53° 53.670' N 1° 42.618' E	53° 29.875' N 0° 4.813' E
53° 30.342' N 0° 28.405' E	53° 37.930' N 0° 56.266' E	53° 53.182' N 1° 42.819' E	53° 30.209' N 0° 4.076' E
53° 31.798' N 0° 40.098' E	53° 38.251' N 1° 2.863' E	53° 53.638' N 1° 44.440' E	53° 30.924' N 0° 6.670' E
53° 31.970' N 0° 39.014' E	53° 38.817' N 1° 2.597' E	53° 53.030' N 1° 44.518' E	53° 31.441' N 0° 5.676' E
53° 35.664' N 0° 44.013' E	53° 42.378' N 1° 14.624' E	53° 52.982' N 1° 48.785' E	
53° 36.111' N 0° 43.504' E	53° 42.515' N 1° 16.394' E	53° 52.442' N 1° 48.786' E	
53° 36.819' N 0° 51.951' E	53° 42.822' N 1° 14.519' E	53° 52.833' N 1° 50.921' E	
53° 36.955' N 0° 49.968' E	53° 42.940' N 1° 16.160' E	53° 53.375' N 1° 50.922' E	
53° 37.352' N 0° 51.812' E	53° 44.381' N 1° 24.841' E	53° 52.961' N 1° 53.946' E	
53° 37.401' N 0° 56.295' E	53° 44.839' N 1° 24.436' E	53° 52.620' N 1° 58.794' E	
53° 37.493' N 0° 49.920' E	53° 46.666' N 1° 42.099' E	53° 52.088' N 1° 58.953' E	
53° 37.925' N 0° 56.108' E	53° 47.172' N 1° 41.782' E	53° 53.147' N 2° 1.029' E	
	53° 47.591' N 1° 44.126' E	53° 52.625' N 2° 1.257' E	
	53° 47.944' N 1° 43.433' E	53° 52.686' N 2° 3.670' E	
	53° 50.054' N 1° 48.132' E	53° 53.236' N 2° 3.693' E	
	53° 50.284' N 1° 47.307' E	53° 52.359' N 2° 6.081' E	
	53° 50.698' N 1° 48.464' E	53° 52.828' N 2° 6.488' E	
	53° 51.061' N 1° 51.350' E		
	53° 51.156' N 1° 47.925' E		
	53° 51.548' N 1° 50.956' E		
	53° 52.409' N 1° 53.961' E		
	53° 52.567' N 1° 53.016' E		

**Expected Cable Lay:****Cable Buried Area:****Expected Opened Trenches:**

Area 1 Coordinates	Area 1 Coordinates	Area 1 Coordinates	Area 2 Coordinates
53° 30.141' N 0° 30.525' E	53° 28.508' N 0° 20.245' E	53° 30.245' N 0° 32.436' E	53° 35.862' N 0° 45.295' E
53° 30.266' N 0° 31.624' E	53° 29.179' N 0° 20.098' E	53° 30.860' N 0° 31.932' E	53° 36.464' N 0° 44.833' E
53° 30.463' N 0° 30.370' E	53° 29.828' N 0° 4.698' E	53° 31.307' N 0° 38.658' E	53° 36.874' N 0° 51.948' E
53° 30.606' N 0° 31.489' E	53° 30.070' N 0° 30.730' E	53° 31.340' N 0° 38.314' E	53° 37.010' N 0° 49.899' E
	53° 30.119' N 0° 4.027' E	53° 31.827' N 0° 38.035' E	53° 37.261' N 0° 53.764' E
	53° 30.581' N 0° 30.488' E	53° 31.898' N 0° 38.210' E	53° 37.394' N 0° 56.050' E
	53° 30.877' N 0° 6.452' E		53° 37.409' N 0° 51.829' E
	53° 30.910' N 0° 14.214' E		53° 37.548' N 0° 49.838' E
	53° 31.501' N 0° 14.720' E		53° 37.789' N 0° 53.570' E
	53° 31.521' N 0° 6.032' E		53° 38.020' N 0° 55.915' E
	53° 31.544' N 0° 12.158' E		
	53° 32.168' N 0° 12.227' 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](mailto:nick.garside@live.co.uk)

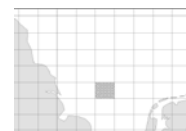
## Seabed Activity

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

## Hornsea Offshore Wind Farm – Boulder Removal

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

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



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

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

## Seabed Activity

First Published: 12 July 2018 | Latest Update: 26 July 2018

## East Anglia One Wind Farm – HDD Works

East Anglia ONE Offshore Windfarm will commence HDD works in the vicinity of Bawdsey beach.

This is in relation to the ongoing works currently taking place in the HDD works area in the vicinity of Bawdsey Beach. To assist in the works the 10 mentioned anchors noted in the table below will be 1.2T pool anchors with moorings of 25mm x 75m chain, marked by a yellow Norwegian rigged unlit marker buoy. The HDD works area has a guard vessel operating at the construction site. Guard vessel 'Megan M' or guard vessel 'Coastworker' can be contacted via VHF16.



Point	Coordinates
1	51°59.624'N 001°25.910'E
2	51°59.578'N 001°25.996'E
3	51°59.533'N 001°26.082'E
4	51°59.487'N 001°26.168'E
5	51°59.441'N 001°26.254'E
6	51°59.706'N 001°26.023'E
7	51°59.660'N 001°26.109'E
8	51°59.615'N 001°26.196'E
9	51°59.569'N 001°26.282'E
10	51°59.523'N 001°26.368'E

The Dredger M/S Grete Fighter Call Sign: OZLP2 will commence works within the coordinates below between 1st August 2018 and 21st August 2018. The vessel will be working 24hrs a day

Point	Coordinates
001	51°59.966'N 001°25.659'E
002	51°59.256'N 001°26.975'E
003	51°59.117'N 001°26.777'E
004	51°59.826'N 001°25.462'E

The area is approximately 1.3 nautical miles to the east north east of the entrance of the River Deben.

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

## Seabed Activity

First Published: 04 April 2018 | Latest Update: 25 July 2018

## East Anglia One Wind Farm – Construction and UXO Disposal

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



## Construction

- The Glomar Drifa will continue Guard vessel duties
- Heavy Lift vessel Bokalift 1 will continue pile and jacket installation on East Anglia One Wind Farm.
- Olympic Taurus will continue pile cleaning on various locations.
- MTS Terramare to continue UXO diving investigations on various locations on the export cable route.
- Tender 2 will support the MTS Terramare with near shore operations.
- Olympic Artemis to continue with UXO investigation and EOD disposal.
- GPS Battler to continue supporting the MTS Terramare with anchor handling operations.
- Red Squirrel jack up barge to commence works near shore
- Tasker 2 to join project and commence works near shore.
- Megan M to join project and commence works near shore as a Guard vessel.
- Forth Sentinel to join project to work with the Red Squirrel, near shore.
- Asharaf to join project and commence works near shore.
- Noortruck will continue to conduct bubble curtain operations to assist with the UXO EOD operations.
- The Patriot will mobilise on the project to conduct passive acoustic monitoring during UXO EOD operations.

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

Location	Location	Location	Location
52°18.381'N 002°30.384'E	52°11.547'N 002°12.908'E	52°18.770'N 002°33.920'E	52°15.887'N 002°31.882'E
52°18.308'N 002°30.456'E	52°18.352'N 002°30.331'E	51°59.788'N 001°25.955'E	52°17.031'N 002°30.999'E
52°18.239'N 002°30.460'E	52°15.688'N 002°28.028'E	52°11.100'N 002°28.618'E	52°17.472'N 002°30.824'E
52°16.547'N 002°33.295'E	52°15.667'N 002°31.968'E	51°59.647'N 001°26.064'E	52°11.572'N 002°28.315'E
52°18.788'N 002°33.930'E	52°17.442'N 002°30.806'E	51°59.449'N 001°26.219'E	52°13.243'N 002°27.347'E
52°03.700'N 001°38.848'E	51°59.545'N 001°30.163'E	52°11.367'N 002°12.567'E	52°16.523'N 002°33.431'E
52°03.814'N 001°39.233'E	52°03.072'N 001°36.326'E	52°11.798'N 002°02.144'E	52°02.455'N 001°35.322'E
52°03.072'N 001°36.326'E	52°13.045'N 002°12.502'E	52°11.135'N 002°09.539'E	52°01.772'N 001°34.237'E
52°11.255'N 002°28.446'E	52°11.953'N 002°20.511'E	52°13.046'N 002°27.502'E	52°00.739'N 001°32.701'E
52°10.927'N 002°06.960'E	52°16.767'N 002°27.440'E	52°03.906'N 001°39.456'E	52°13.111'N 002°27.512'E
52°03.486'N 001°37.402'E	52°12.563'N 002°27.176'E	52°09.621'N 002°27.445'E	52°03.748'N 001°39.892'E
52°00.783'N 001°35.744'E	52°11.231'N 002°12.906'E	52°11.537'N 002°12.911'E	52°11.338'N 002°10.735'E
51°59.773'N 001°26.651'E	52°11.437'N 002°28.288'E	52°16.421'N 002°27.587'E	52°02.751'N 001°35.663'E
52°11.540'N 002°12.916'E	52°04.317'N 001°39.752'E	52°03.944'N 001°38.212'E	52°04.028'N 001°38.361'E

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

## Seabed Activity

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

## Gunfleet Sands Offshore Wind Farm – Array Cable Burial

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



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

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

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

For further information: Merlin Jackson, Tel: 07989520484 email: [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)

## Survey Activity

First Published: 26 July 2018 | Latest Update: 26 July 2018

## East Anglia Offshore Windfarm - Survey

EGS (International) Ltd will be performing bathymetric seabed surveys at three locations in August, approximately 35 to 52 nm Northeast of Great Yarmouth.

Company, Vessel & Call Sign	Survey Area	Start Timeframe & Duration
EGSEGS EGS Pioneer 2EGS9	52°58.217'N 002°28.449'E 52°01.538'N 002°54.692'E 52°47.881'N 002°50.172'E	August For 4 - 5 Days



For further information: Gareth Steven, EGS International Ltd, Tel: +44(0)1420 489329 email: [gsteven@egssurvey.co.uk](mailto:gsteven@egssurvey.co.uk)

## Survey Activity

First Published: 28 June 2018 | Latest Update: 06 July 2018

## Triton Knoll Offshore Windfarm - Survey

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

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



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

## Seabed Activity

First Published: 03 December 2015 | Latest Update: 12 July 2018

## 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

Operations to excavate a cable trench from KP 0.32 to KP 2 (Layout drawing and CR4 coordinates below) on the CR4 inshore export cable route is planned to commence on the 29/06/2018. Operations are due to last 5 weeks weather permitting.

Vessels will be mobilising in the port of Shoreham.

The Backhoe Dredgers Capall Mara MBSF3 and platform C59 Emotion will carry out the excavating:

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

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

## Deployment of Buoys

## North Coast of Cornwall – Wave Hub Subsea Cable Safety Notice

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



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

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

1. Overall, the 2017 cable survey shows that approximately 18% of the export cable remains exposed. Key characteristics are as follows (KP chart and RPL attached):
  - a. From the shore to KP1.9 the subsea power cable remains buried to the design depth of 1.5m from top of product
  - b. Due to varying sediment depths alongside shallow burial or a partial rock berm, From KP 1.9 to KP 8.1 the subsea power cable is in many areas exposed or carries a high risk of exposure
  - c. From KP 8.1 to the Wave Hub itself (KP 25) the subsea power cable is generally covered by a rock berm with 0.3m depth of cover. However, the 2017 survey has recorded a number of longstanding cable exposures and free-spans through this zone so the berm should not be considered as continuous protection.
2. Four cable tails extend across the charted offshore Renewable Energy Development Area to provide Developers with a proximate point of connection (KP chart and RPLs attached). These cables are stabilised against current and wave action through rock bags positioned at regular intervals but are otherwise exposed and unprotected to facilitate ease of handling. Many free-spans were removed in 2016 during construction by use of further rock bags but further free-spans due to the seabed mobility have been recorded during the 2017 cable survey.

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

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

### Installation complete

All sub surface components for the Deep Green project have been successfully installed on site, and an offshore support buoy has been installed. 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

The MGS Offshore Support Buoy is now showing a **YELLOW FLASHING LIGHT Fl.(4) 15s**. The Local Notice to Mariners for the project has been updated to show this, and can be downloaded [here](#).

All other project details remain unchanged: commissioning works are still being carried out by the vessels listed below:-

- [Voe Vanguard](#): Tug | Call sign MBEN9
- [Lynas Shuttle](#): Port Tender / Crew Transfer Vessel | Call sign GCHK

The *Voe Vanguard* will be restricted in its ability to manoeuvre during these operations, and will display appropriate day marks and lights.

A safety zone of 500m on the sea surface is established on the MGS Offshore Support Buoy. All vessels are asked to give a wide berth to the MGS Buoy and any vessels working on site.

**Vessels are strongly advised not to approach the MGS Buoy. Access to the MGS Buoy is strictly prohibited.** CCTV is in operation to monitor the buoy

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

## Walney Extension Wind Farm – Rock Replacement

The Walney Extension project has undertaken remedial rock placement at various locations along the export cable routes outside of existing subsea infrastructure crossing locations.



Point ID	Start Lat	Start Long	End Lat	End Long	
RP 1	53° 56.912' N	3° 04.447' W	53° 56.982' N	3° 04.193' W	306 meters
RP 2	54° 05.362' N	3° 49.619' W	54° 05.303' N	3° 49.585' W	116 meters
RP 3	54° 05.797' N	3° 50.165' W	54° 05.805' N	3° 50.217' W	58 meters
RP 4	54° 05.683' N	3° 50.907' W	54° 05.671' N	3° 50.934' W	440 meters
RP 5	53° 58.328' N	3° 01.341' W	53° 58.304' N	3° 01.407' W	80 meters
RP 6	53° 56.975' N	3° 04.343' W	53° 56.960' N	3° 04.387' W	55 meters
RP 7	54° 05.894' N	3° 50.415' W	54° 05.863' N	3° 50.612' W	1015 meters
	54° 05.863' N	3° 50.612' W	54° 05.701' N	3° 50.934' W	
	54° 05.701' N	3° 50.934' W	54° 05.666' N	3° 51.218' W	
RP 8	53° 55.075' N	3° 22.131' W	53° 55.078' N	3° 22.301' W	750 meters
RP 9	53° 55.215' N	3° 10.468' W	53° 55.126' N	3° 10.667' W	500 meters

These location coordinates are listed below and give the start and end position of each rock placement as well as the length in meters. Please mark these locations on your charts/plotter and keep clear.

The above locations of rock placements along the WOWO3+4 Export Cables are shown on the attached chartlet as being shaded red.

Also shown on the chartlet are the crossing locations of the Export Cables over the existing subsea infrastructure.

The coordinates of the Crossing Locations over existing subsea infrastructure are listed below and these locations are protected with industry standard rock placement techniques.

Please mark these positions on your chart/plotter and keep clear

Latitude	Longitude	Latitude	Longitude
54° 03.950' N	3° 47.221' W	53° 59.064' N	3° 36.740' W
54° 03.904' N	3° 46.955' W	53° 59.039' N	3° 36.736' W
54° 00.679' N	3° 40.347' W	53° 59.096' N	3° 36.637' W
54° 00.683' N	3° 40.318' W	53° 59.088' N	3° 36.636' W
54° 00.885' N	3° 40.349' W	53° 59.064' N	3° 36.631' W
54° 00.889' N	3° 40.322' W	53° 55.562' N	3° 26.553' W
53° 54.527' N	3° 11.832' W	53° 55.738' N	3° 26.290' W
53° 54.564' N	3° 11.931' W	53° 55.355' N	3° 24.345' W
53° 59.072' N	3° 36.742' W	53° 55.495' N	3° 24.206' W

This information has been posted to all of the fishermen who I have addresses for and it is expected that information covering the material presented in this NtM will also be made available via Kingfisher/KIS-ORCA".

Please note that the chartlet is provided for information purposes only and should not be used for navigation.

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

**Notice to Fishermen**First Published: 12 July 2018 | **Latest Update: 12 July 2018****Fishing Hazard – Plat-I Connel Removal Operations** [Map Link](#)

**Please be advised that the PLAT-I platform was successfully removed from site on June 7th. The mooring system was removed on June 8th.**

It is intended to leave 4 \* rock anchors in-situ in the event that we wish to conduct further testing at the site in the near term. Please be advised that a Marine License application has been submitted to Marine Scotland to enable the anchors to remain in place until October 2020 – in line with the Lease Option previously awarded to Sustainable Marine Energy Ltd by the Scottish Crown Estate.



In terms of a description of the anchors:

- They are of steel construction
- 1.4t each
- The 'head' of each of the anchors protrudes between 50cm – 70cm from the seabed.

Coordinates	
56°27.303'N	005°23.999'W
56°27.275'N	005°23.982'W
56°27.321'N	005°23.893'W
56°27.301'N	005°23.865'W

*For further information: John McGlynn, Sustainable Marine Energy Ltd, Tel: +44 0131 285 4620 email: [john.mcglynn@sustainablemarine.com](mailto:john.mcglynn@sustainablemarine.com)*

## 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 (+ prtnrs)	9 Jan 2012	<a href="#">Download</a>
Walney 2	5	14km Walney Island	51	Orsted / SSE (+ prtnrs)	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>
Westermest 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>