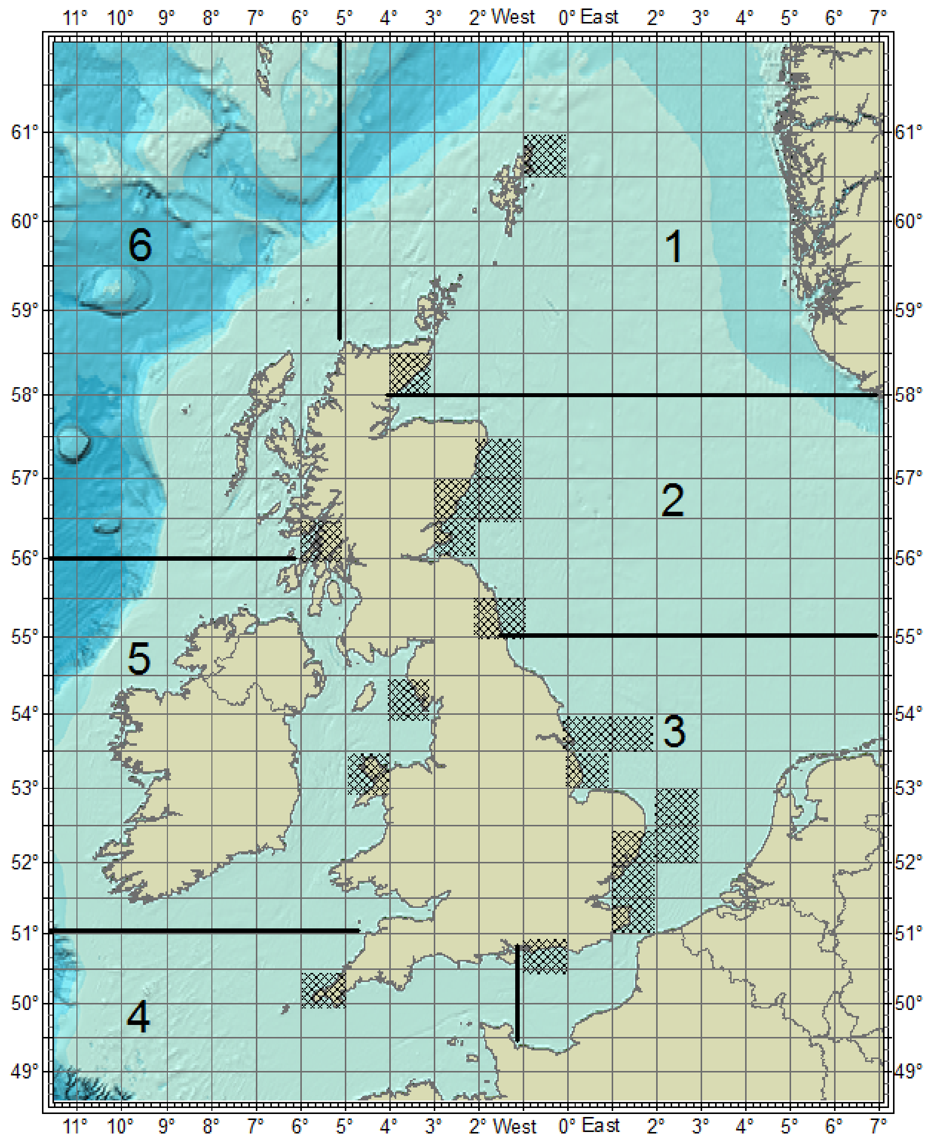
The Kingfisher Bulletin
Offshore News

RENEWABLE ENERGY | 15 NOVEMBER 2018 | ISSUE 23

Shaded blocks indicate activity.



What's inside?

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THE CROWN ESTATE

Information

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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
Lost Vibro Corer West of Shetland	60°21.430'N 003°51.360'W	20 Sept 2018	*Raymond Hall,Tel: 01224 646944 email: R.Hall@sff.co.uk*	
New suspended wellhead on seabed (204/10a-5Y)	60°49.083'N 004°09.351'W	20 Sept 2018	*Marcelle Wynter, DECC, Tel: 0300 067 1616 email: Marcelle.wynter@ogauthority.co.uk*	
Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline	60º38.646'N 01º39.193'E 60º38.713'N 01º39.207'E 60º39.017'N 01º39.267'E 60º39.033'N 01º39.271'E	31 May 2018	*David Colliard,email: david.colliard@total.com*	

Area 2 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Heavy Weight & Chain & lost gear	57°43.204'N 001°04.895'E	15 Nov 2018	Bernie Bennett, Oil & Gas UK email: *bbennett@oilandgasuk.co.uk*	
Lost steel drill and conductor casing.	56°16.450'N 002°15.170'W	04 Oct 2018	Sarah MacNab *sarah@consult-poseidon.com Tel: +44(0)7766 900074*	
Lost a drill string	56°15.147'N 002°18.574'W	06 Sept 2018	Sarah MacNab *sarah@consult-poseidon.com Tel: +44(0)7766 900074*	
Snagging Hazard at Abandoned Well 30/01c-9	56°50.655'N 002°10.022'E	04 Oct 2018	*Nick Strachan, BP email: nick.strachan@uk.bp.com*	

Area 3 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Loss of approximately 35m of steel CPT rods 3.6cm Dia	54°45.505'N 001°44.479'E	06 Sept 2018	Dave Scott. SSE. Tel: +44(0)1738 516993 email: david.scott@sse.com	
Wreck FV Sonja Z.19 Least Depth 35.15m, Surround Depths 45.5m Laying 45° to Port.	52°48.410'N 002°19.570'E	06 Sept 2018	*Duty Officer, UKHO, Tel: +44(0)1823 353448 email: navwarnings@btconnect.com*	
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*	

Area 5 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
100m Lost Tether 30mm diameter	53°48.000'N 003°34.000'E	01 Nov 2018	*Robert Millman, Spirit Energy, Tel: +44(0)1224 411 690 email: Robert.millman@spirit-energy.com*	
Dropped Ladder 1.5 metres above the seabed and is 50cm wide	53°51.599'N 03°17.774'W	20 Sept 2018	*Gavin Scarff, Orsted, Tel: +44 74 6 9377056 email: GAVSC@orsted.co.uk*	

Notice to Fishermen

First Published: 20 September 2018 | **Latest Update: 20 September 2018**

Fishing Hazard – Lost Vibro Corer West of Shetland

Map Link

Please be advised that the Stirl Explorer managed to break away from the Vibro Corer, recovery failed and it has been left on the seabed in position

60°21.430'N 003°51.360'W

The Vibro corer is believed to have penetrated 3 metres into the seabed and is a hazard to fishing boats as its also standing a few metres off the seabed.

For further information: Raymond Hall, SFF, Tel: +44 (0)1224 646944 email: r.hall@sff.co.uk

Seabed Activity

First Published: 22 February 2018 | **Latest Update: 29 October 2018**

Beatrice Offshore Windfarm Ltd – Construction Operations

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

On behalf of BOWL, Jan De Nul will conduct the IAC rock placement campaign using the Simon Stevin. The campaign will consist of three consecutive 7 – 8 day trips laying a rock berm over a total of 17 km of IAC routes spread across the site

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

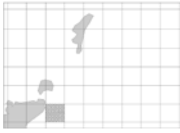
Location ID	Lat WGS84	Long WGS84	Location ID	Lat WGS84	Long WGS84
BE-A5	58° 12.471' N	002° 59.996' W	BE-G4	58° 13.142' N	002° 53.464' W
BE-B5	58° 12.687' N	002° 58°.873' W	BE-G5	58° 13.762' N	002° 53.254' W
BE-B6	58° 13.308' N	002° 58°.664' W	BE-G6	58° 14.384' N	002° 53.044' W
BE-B7	58° 13.929' N	002° 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° 55.58°2' W	BE-H10	58° 17.082' N	002° 51.079' W
BE-D11	58° 16.844' N	002° 55.373' W	BE-H11	58° 17.703' N	002° 50.867' W
BE-E1	58° 10.900' N	002° 56.256' W	BE-H12	58° 18.324' N	002° 50.657' W
BE-E2	58° 11.470' N	002° 56.128' W	BE-H13	58° 18.944' N	002° 50.446' W
BE-E3	58° 12.090' N	002° 55.920' W	BE-J5	58° 14.192' N	002° 51.005' W
BE-E4	58° 12.712' N	002° 55.710' W	BE-J6	58° 14.812' N	002° 50.795' W
BE-E5	58° 13.333' N	002° 55.502' W	BE-J7	58° 15.433' N	002° 50.58°5' W
BE-E6	58° 13.954' N	002° 55.293' W	BE-J8	58° 16.055' N	002° 50.373' W
BE-E7	58° 14.575' N	002° 55.084' W	BE-J9	58° 16.675' N	002° 50.163' W
BE-E8	58° 15.196' N	002° 54.875' W	BE-J10	58° 17.296' N	002° 49.952' W
BE-E9	58° 15.817' N	002° 54.665' W	BE-J11	58° 17.917' N	002° 49.741' W
BE-E10	58° 16.438' N	002° 54.456' W	BE-J12	58° 18.538' N	002° 49.530' W
BE-E11	58° 17.059' N	002° 54.247' W	BE-J13	58° 19.159' N	002° 49.319' W
BE-E12	58° 17.680' N	002° 54.037' W	BE-K6	58° 15.027' N	002° 49.669' W
BE-F2	58° 11.685' N	002° 55.005' W	BE-K7	58° 15.648' N	002° 49.459' W
BE-F3	58° 12.306' N	002° 54.796' W	BE-K8	58° 16.269' N	002° 49.247' W
BE-F4	58° 12.927' N	002° 54.58°8' W	BE-K9	58° 16.890' N	002° 49.036' W
BE-F5	58° 13.548' N	002° 54.378' W	BE-K10	58° 17.510' N	002° 48.825' W
BE-F6	58° 14.168' N	002° 54.169' W	BE-K11	58° 18.131' N	002° 48.614' W
BE-F8 (OTM)	58° 15.411' N	002° 53.750' W	BE-K12	58° 18.752' N	002° 48.403' W
BE-F9	58° 16.031' N	002° 53.540' W	BE-L7	58° 15.862' N	002° 48.333' W
BE-F10	58° 16.653' N	002° 53.330' W	BE-L8	58° 16.482' N	002° 48.122' W
BE-F11	58° 17.274' N	002° 53.120' W	BE-L9	58° 17.104' N	002° 47.910' W
BE-F12	58° 17.894' N	002° 52.911' W	BE-L10	58° 17.724' N	002° 47.698' W
BE-F13	58° 18.516' N	002° 52.701' W	BE-M9	58° 17.317' N	002° 46.784' W
BE-G3	58° 12.544' N	002° 53.726' W	BE-M10	58° 17.938' N	002° 46.571' W

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

Survey Activity

First Published: 16 October 2018 | **Latest Update: 29 October 2018**

Moray Wind Farm (West) Ltd – Geophysical Survey



Please be advised that Moray Offshore Windfarm (West) Limited (Moray West) have survey vessels working in the Moray West Wind Farm site for approximately 28 survey days, including weather downtime. The table below provide details of the survey location.

The Kommandor Stuart has commenced the geophysical survey, involving 24 hour operations since the 26th October 2018. 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.

Please see below for Fisheries Liaison Officer (FLO) contact details.

Company, Vessel & Call Sign	*Survey Area*	*Survey Area*	*Start Timeframe & Duration*
Igeotest Kommandor Stuart MPQH3	58°02.993'N 003°16.860'W 57°58.017'N 003°09.875'W	58°12.571'N 002°52.451'W 58°07.573'N 002°45.492'W	26 October for 28 days excluding weather downtime

For further information: Alex Eakin, Moray Offshore Windfarm (West) Ltd, Tel: +44 (0)7741 904826 email: alex.eakin@edpr.com
FLO Contact Details: Kommandor Stuart: Ian Downie, Tel: + 44(0)7765172762, email: i.downie007@btinternet.com

Survey Activity

First Published: 01 November 2018 | **Latest Update: 12 November 2018**

Moray Offshore Wind Farm (West) Ltd – Flidar Buoy Installation

Please be advised that Moray Offshore Windfarm (West) Limited (Moray West) will have a vessel working in the Moray West Wind Farm site for approximately 1 to 2 days, excluding weather downtime. The table below provide details of the location.

The vessel, Green Marine will commence the installation of the FLIDAR buoy at the Moray West site, involving 24 hour operations on 15th November 2018 at the earliest.

58°05.381'N 003°00.877'W

For further information: Guillermo Tornero, Moray Offshore Windfarm (West) Ltd, Tel: +44 (0)774 162 5376 email: Guillermo.Tornero@moraywest.com Allan Hain, Moray Offshore Windfarm (West) Ltd, Tel: +44 (0)775 204 4272 email: Allan.Hain@moraywest.com

Survey Activity

First Published: 15 November 2018 | **Latest Update: 15 November 2018**

Dounreay, North Scotland – Wave Buoy Deployment

Please be advised of the following activities proposed to be undertaken in the vicinity of the Dounreay Nuclear Establishment on the North Coast of Scotland. Wave buoy is attached to chain anchor weight via polypropylene rope. 90cxm diameter wave buoy, bright yellow in colour, Antenna with built in LED strobe (flashes once every 4 seconds) seconds.

Please note - All mariners are requested to maintain a minimum 500m safety zone around wave buoy location.

Wave buoy Placement Location: 58°35.317'N 03°45.092'W. Installation 07/11/18 until 07/11/19

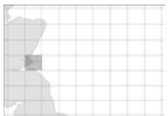
For further information: *Jason McIlvenny, Environmental Research Institute, Thurso, KW147EE, Tel: +44 1847889663 email:* Jason.mcilvenny@uhi.ac.uk

Notice to Fishermen

First Published: 04 October 2018 | **Latest Update: 04 October 2018**

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

Map Link



Please be advised that whilst conducting geotechnical investigations the survey vessel Omalius lost steel drill and conductor casing. The dropped object has been marked with an orange buoy at the following position:

56°16.450'N 002°15.170'W

Measures are being taken to survey and then retrieve the dropped object where practicable. Fishing vessels are advised to remain clear of the area defined by the coordinates shown above until further advised.

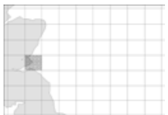
For further information: Neart na Gaoithe Offshore Wind Limited; Ewan Walker on +44(0) 7850 207515 and at Ewan.Walker@edf-re.uk or Sarah MacNab on +44(0) 7766 900074 and at sarah@consult-poseidon.com
Offshore FLO contact: Guard vessel Horizon II on +44 (0) 1346 454584 or at Horizon@e-catch.info

Notice to Fishermen

First Published: 06 September 2018 | **Latest Update: 06 September 2018**

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

Map Link



Please be advised that whilst conducting geotechnical investigations the survey vessel *Omalius* lost a drill string. The dropped object has been marked with an orange buoy at the following position:

56°15.147'N 002°18.574'W

Measures are being taken to survey and then retrieve the dropped object where practicable. Fishing vessels are advised to remain clear of the area defined by the coordinates shown above until further advised.

For further information: Neart na Gaoithe Offshore Wind Limited; Ewan Walker on +44(0) 7850 207515 and at Ewan.Walker@edf-re.uk or Sarah MacNab on +44(0) 7766 900074 and at sarah@consult-poseidon.com

Seabed Activity

First Published: 15 November 2018 | **Latest Update: 15 November 2018**

Inch Cape Offshore Limited – Maintenance Work

Wood Group, on behalf of Inch Cape Offshore Limited, will be undertaking maintenance works on the Inch Cape Offshore Met Mast, planned to commence 16th November 2018. The work is expected to last for approximately 3 days, over 2 weeks, weather permitting.

During these works a vessel Windcat 15 will operate from port to the works location 56° 26.404'N 02° 14.489'W. The vessel will remain on site during the works and will then return to port.

For further information: Andrew Blyth, Tel: 07867170987 email: Andrew.blyth@redrockpower.co.uk

Seabed Activity

First Published: 04 October 2018 | **Latest Update: 04 October 2018**

Aberdeen OWF – Completion of Construction

Please be advised Aberdeen Offshore Wind Farm Site construction has now been completed. Turbines have been installed in below positions

Location of Installed Wind Turbines

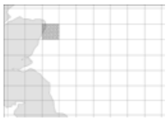
WTG ID	Latitude	Longitude	Depth
AWF 01	57° 13.420' N	02° 00.758' W	-19.86
AWF 02	57° 13.703' N	02° 00.132' W	-23.02
AWF 03	57° 14.010' N	01° 59.371' W	-27.29
AWF 04	57° 14.405' N	01° 58.551' W	-29.73
AWF 05	57° 12.948' N	02° 00.671' W	-21.75
AWF 06	57° 13.203' N	02° 00.013' W	-25.38
AWF 07	57° 13.465' N	01° 59.274' W	-29.51
AWF 08	57° 13.809' N	01° 58.450' W	-31.51
AWF 09	57° 12.476' N	02° 00.627' W	-23.50
AWF 10	57° 12.704' N	01° 59.921' W	-27.30
AWF 11	57° 12.960' N	01° 59.151' W	-31.54

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

Survey

First Published: 01 November 2018 | **Latest Update: 01 November 2018**

Hywind Scotland Wind Park – Survey



As part of the Hywind Scotland Wind Park, Equinor have subcontracted Reach to perform a subsea survey of the installed equipment, including the structures, mooring systems, infield cables and export cable.

The survey is planned to commence 28.10.2018 and shall last approximately 11 days. All equipment shall remain in position for the duration of the survey. The vessel, Edda Fonn, shall be using for conducting the work.

Floating Turbine Locations:

FWT	LONG	LAT
HS1	1° 19,937' W	57° 29,056' N
HS2	1° 21,120' W	57° 29,445' N
HS3	1° 22,305' W	57° 29,834' N
HS4	1° 21,154' W	57° 28,699' N
HS5	1° 22,338' W	57° 29,088' N

FWT Mooring Anchor Locations:

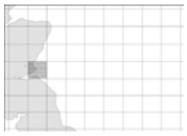
FWT	Anchor ID	LONG	LAT
HS1	111	1° 20,402' W	57° 29,362' N
	112	1° 20,198' W	57° 28,683' N
	113	1° 19,072' W	57° 29,133' N
HS2	121	1° 21,547' W	57° 29,738' N
	122	1° 21,397' W	57° 29,074' N
	123	1° 20,353' W	57° 29,504' N
HS3	131	1° 22,829' W	57° 30,148' N
	132	1° 22,561' W	57° 29,142' N
	133	1° 21,534' W	57° 29,922' N
HS4	141	1° 21,815' W	57° 28,916' N
	142	1° 21,174' W	57° 28,263' N
	143	1° 20,462' W	57° 28,902' N
HS5	151	1° 23,009' W	57° 29,299' N
	152	1° 22,343' W	57° 28,639' N
	153	1° 21,622' W	57° 29,307' N

For further information: Ben Lawson, Equinor, Tel: +44 0 7920 563744 email: blaw@equinor.com

Survey Activity

First Published: 12 July 2018 | **Latest Update: 15 November 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. The survey work will be carried out by G-tec, operating out of the Port of Dundee.

The UXO survey is complete. The geotechnical survey comprised of cone penetration tests and boreholes is ongoing. Up to three vessels will be present on site at any one time. The survey vessels 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; please see below for FLO contact details.

Company, Vessel & Call Sign	*Survey Area*	*Survey Area*	*Start Timeframe & Duration*
Geotechnical survey: *Omalius* ORRS; *Apollo* LXBP	56°15.271'N 002°09.898'W 56°12.721'N 002°09.255'W 56°12.752'N 002°13.998'W 56°12.766'N 002°16.293'W 56°15.479'N 002°19.628'W	56°15.827'N 002°20.055'W 56°17.430'N 002°20.232'W 56°19.752'N 002°17.826'W 56°20.312'N 002°16.518'W 56°20.171'N 002°14.910'W	Geotechnical survey Start ~ 12 August 2018; End ~ Early 2019.

For further information: Neart na Gaoithe Offshore Wind Limited; Ewan Walker on +44(0) 7850 207515 and at Ewan.Walker@edf-re.uk or Sarah MacNab on +44(0) 7766 900074 and at sarah@consult-poseidon.com
Offshore FLO contact: Sheryl Gove / Greg Wood on +44(0) 1224 646944 and at ops@sff.co.uk

Notice to Fishermen

First Published: 01 November 2018 | **Latest Update: 15 November 2018**

Race Bank Wind Farm – Shallow Buried Export Cable

Map Link

A number of areas along both the north and south export cables, known as Cable Exposure Zones, are currently either exposed at seabed, or insufficiently buried. As discussed during recent commercial fisheries consultation meetings, the Race Bank project has recently acquired additional geophysical survey data along the export cable route.

The findings of these surveys require the spatial extents of the previously communicated Cable Exposure Zones to be updated. In general, the location of the previously communicated Cable Exposure Zone remains unchanged, however, some zones have been removed, some zones have either decreased or increased in size, and some new zones have been added. The combined spatial extent of the updated set of Cable Exposure Zones has not increased when compared against the combined spatial extent of the previously communicated set of Cable Exposure Zones.

Locations of the updated set of Cable Exposure Zones. As before, the spatial extent of each Cable Exposure Zone incorporates a 50m buffer area around the exposed or insufficiently buried length of cable. The below table provides the length and width of each Cable Exposure Zone, along with coordinate points marking either end, and/or the centre point, of each Cable Exposure Zone.

Cable Exposure Zone	Dimension (m) including 50m buffer area		Coordinates (Degrees Decimal Minutes)					
			Start		Centre		End	
	Width	Length	Longitude	Latitude	Longitude	Latitude	Longitude	Latitude
1	100	113	0° 14,722' E	52° 51,739' N	-	-	0° 14,743' E	52° 51,799' N
2	50 around point		-	-	0° 16,120' E	52° 53,878' N	-	-
3	100	315	0° 16,255' E	52° 54,114' N	-	-	0° 16,397' E	52° 54,261' N
4	50 around point		-	-	0° 17,760' E	52° 55,864' N	-	-
5	50 around point		-	-	0° 19,177' E	52° 57,473' N	-	-
6	100	460	0° 22,558' E	52° 59,725' N	0° 22,749' E	52° 59,773' N	0° 22,836' E	52° 59,885' N
7	100	670	0° 23,659' E	53° 0,033' N	0° 24,044' E	53° 0,152' N	0° 24,201' E	53° 0,169' N
8	50 around point		-	-	0° 25,286' E	53° 1,234' N	-	-
9	100	1175	0° 25,383' E	53° 1,300' N	0° 25,630' E	53° 1,557' N	0° 26,057' E	53° 1,773' N
10	100	125	0° 26,253' E	53° 1,964' N	-	-	0° 26,267' E	53° 2,030' N
11	100	215	0° 26,573' E	53° 2,812' N	-	-	0° 26,600' E	53° 2,927' N
12	100	114	0° 27,975' E	53° 3,885' N	-	-	0° 28,051' E	53° 3,927' N
13	100	615	0° 28,176' E	53° 4,041' N	0° 28,324' E	53° 4,168' N	0° 28,519' E	53° 4,299' N
14	200	555	0° 28,632' E	53° 4,332' N	-	-	0° 28,960' E	53° 4,552' N
15	200	1047	0° 29,067' E	53° 4,623' N	-	-	0° 29,689' E	53° 5,042' N
16	200	440	0° 29,959' E	53° 5,226' N	-	-	0° 30,213' E	53° 5,394' N
17	100	195	0° 30,443' E	53° 5,599' N	-	-	0° 30,555' E	53° 5,679' N
18	100	252	0° 34,075' E	53° 7,712' N	-	-	0° 34,278' E	53° 7,773' N
19	100	125	0° 36,773' E	53° 8,384' N	-	-	0° 36,882' E	53° 8,401' N
20	100	116	0° 43,292' E	53° 13,508' N	-	-	0° 43,286' E	53° 13,571' N
21	100	233	0° 43,053' E	53° 15,098' N	0° 43,029' E	53° 15,165' N	0° 43,051' E	53° 15,219' N
22	100	201	0° 48,312' E	53° 17,738' N	-	-	0° 48,493' E	53° 17,736' N
23	100	45	0° 48,566' E	53° 17,739' N	-	-	0° 48,525' E	53° 17,736' N
24	100	41	0° 51,957' E	53° 15,328' N	-	-	0° 51,996' E	53° 15,325' N
25	100	36	0° 52,015' E	53° 15,363' N	-	-	0° 52,015' E	53° 15,342' N

__For further information:__ Hywel Roberts, Orsted, Tel: +44 78 2 7841869 email: HYWRO@orsted.co.uk

Notice to Fishermen

First Published: 20 September 2018 | **Latest Update: 20 September 2018**

Galloper Wind Farm – Risk of cable exposure

Map Link

Following a recent survey within the Galloper windfarm some evidence of cable exposure was observed.

As cable exposure is a known risk at Galloper and across the offshore wind industry, we would remind Mariners of the safety information found on the KIS-ORCA website 'The risks of fishing near cables and renewable energy structures'.

To avoid crossing cables when towing equipment follow the cable corridors- locations of the cables can be found on the Galloper awareness charts via KIS-ORCA.

For further information: Simon Barber, Galloper Wind Farm, Tel: +4 1255 508 277 Mobile 07596662772 email: srv_galmcc.service@innogy.com

Notice to Fishermen

First Published: 06 September 2018 | **Latest Update: 06 September 2018**

Dropped Object – Dogger Bank Creyke Beck A

Map Link

Please be advised that the loss of approximately 35m of steel CPT rods 3.6cm Dia within the Dogger Bank Creyke Beck A site. The location has been marked with a buoy

54°45.505'N 001°44.479'E

For further information: Dave Scott. SSE. Tel: +44(0)1738 516993 email: david.scott@sse.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*

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*

Seabed Activity

First Published: 18 October 2018 | **Latest Update: 18 October 2018**

East Anglia One Wind Farm – Met Mast Racon beacon inoperable

Please be advised that the Racon beacon on the East Anglia 1 Met Mast is inoperable, in position

52°12.863'N 002°30.110'E

For further information: Anthony Robson, Tel:01416144880 email: EA1_MCC@scottishpower.com

Seabed Activity

First Published: 15 November 2018 | **Latest Update: 15 November 2018**

London Array Wind Farm – Activity

Map Link

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

Identity	Coordinates	Light	
Guard Buoy (North)	51°40.884'N 01°31.226'E	Fl (5) Y 20s 2nm	Yellow sphere with flashing light and radar reflector.
Guard Buoy (South)	51°40.775'N 01°31.230'E	Fl (5) Y 20s 2nm	

Please be aware that the Guard Buoys for the LAL Long Sand Middle Wave Buoy (as detailed above) are temporarily removed.

Identity	Coordinates	Light	
Long Sand (Middle)	51°40.826'N 01°31.229'E	Fl (5) Y 20s 2nm	Yellow spherical buoy, transparent top dome with solar panels and flashing light.

The LAL Long Sand Middle Wave Buoy remains on station (as detailed above.)

Identity	Coordinates	Light	
Guard Buoy (North)	51°37.105'N 01°30.476'E	Fl (5) Y 20s 2nm	Yellow sphere with flashing light and radar reflector.
Guard Buoy (South)	51°37.058'N 01°30.307'E	Fl (5) Y 20s 2nm	

Please be aware that the Guard Buoys for the LAL Knock Deep North Wave Buoy (as detailed above) are temporarily removed.

Identity	Coordinates	Light	
Knock Deep (North)	51°37.064'N 01°30.363'E	Fl (5) Y 20s 2nm	Protected by 2 guard buoys stationed approximately 50 - 100 meters to the North and South.

The LAL Knock Deep North Wave Buoy remains on station (as detailed above.)

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

Seabed Activity

First Published: 04 October 2018 | **Latest Update: 15 November 2018**

Hornsea Three Offshore Wind Farm – Acoustic Current Profilers

Mariners are advised that as part of a current measurement campaign for Hornsea Three, 8 Acoustic Current Profilers (ADCP's) have been installed by the Bibby Tethra off the North Norfolk Coast within the project's proposed export cable and array area.

Each profiler is mounted on the seabed with an "L" shape mooring design and marked by a surface marker buoy equipped with navigation light. The total campaign is for 12 ADCPs. The locations of the Acoustic current profilers are provided below.

The equipment will remain in those locations for 60 days.

Site Name	Coordinates
ADCP 1	53°04.167'N 01°09.086'E
ADCP 2	53°04.063'N 01°15.457'E
ADCP 3	53°04.327'N 01°27.957'E
ADCP 4	53°13.831'N 01°42.912'E
ADCP 5	53°22.778'N 01°48.138'E
ADCP 6	53°27.493'N 01°49.319'E
ADCP 7	53°30.600'N 02°01.024'E
ADCP 8	53°35.219'N 02°03.512'E
ADCP 9	53°37.725'N 02°06.233'E
ADCP 10	53°44.438'N 02°23.247'E
ADCP 11	53°55.591'N 02°23.005'E
ADCP 12	53°47.533'N 02°40.395'E

For further information: Felicity Browner, Orsted, Tel: +44 7826663963 email: felbr@orsted.co.uk

Seabed Activity

First Published: 15 November 2018 | **Latest Update: 15 November 2018**

Hornsea Project One – UXO Demolition

Mariners are advised that Hornsea Project One will be detonating a UXO within the Hornsea Project One Offshore Wind Farm area. Hornsea Project One is located within the UK Sector of the North Sea.

UXO detonation will commence with Smit Kamara – ORLB & Eagle Frontier – C6DX7 on or about 16th – 18th November 2018.

Coordinates
53°51.719'N 01°45.872'E
53°51.746'N 01°48.608'E
53°50.129'N 01°48.654'E
53°50.101'N 01°45.920'E

For further information: Dirk Wilyman, Orsted, Tel: 07880262167 email: dirkw@orsted.co.uk

Seabed Activity

First Published: 04 April 2018 | **Latest Update: 29 October 2018**

East Anglia One Wind Farm – Jetting, Jointing & Mattressing Operations

Please be advised the Volantis shall commence operations circa the 12th of November 2018. The Volantis will be conducting Cable jointing, jetting and mattress laying operations on the Export Cable route on East Anglia one offshore wind farm for approximately 6-8 weeks.

The works are planned on the offshore substation and heading west along the export cable route.
All vessels are requested to maintain a 500m safety zone when engaged in operations.
The Volantis can be contacted on VHF ch16.

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.
- Iceni Vengeance, Iceni Defender, Sure Pride, MO3 and World Seagull to carry out crew transfers
- Guard vessels Guard vessels Ardent and Isla B to guard exposed export cable areas over cable crossing and wet stowed cable end.
- Red Squirrel in Harwich

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°03.800’N 001°39.233’E	52°03.072’N 001°36.326’E	52°11.798’N 002°26.246’E	52°02.435’N 001°35.322’E
52°03.072’N 001°36.326’E	52°13.046’N 002°27.512’E	52°11.356’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
52°00.737’N 001°32.688’E	52°12.070’N 002°31.675’E	52°04.332’N 001°39.751’E	52°14.578’N 002°29.930’E

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

Notice to Fishermen

First Published: 11 January 2018 | **Latest Update: 15 November 2018**

Hornsea Offshore Wind Farms – Export Cable Open Trenches & Surveys

Map Link

Map Link

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
53° 46.624' N 1° 42.295' E	53° 32.198' N 0° 39.308' E	53° 37.992' N 0° 56.502' E
53° 47.390' N 1° 46.068' E	53° 32.138' N 0° 40.572' E	53° 36.918' N 0° 47.612' E
53° 47.967' N 1° 46.047' E	53° 35.519' N 0° 42.350' E	53° 36.428' N 0° 47.971' E
53° 48.003' N 1° 51.668' E	53° 35.243' N 0° 43.419' E	53° 36.907' N 0° 50.205' E
53° 48.538' N 1° 51.557' E	53° 31.898' N 0° 38.210' E	53° 37.302' N 0° 51.825' E
53° 47.134' N 1° 42.000' E	53° 31.307' N 0° 38.658' E	53° 30.988' N 0° 32.749' E
53° 49.947' N 1° 59.989' E	53° 36.464' N 0° 44.833' E	53° 30.346' N 0° 33.037' E
53° 49.428' N 2° 00.180' E	53° 35.862' N 0° 45.295' E	53° 38.000' N 0° 56.010' E
53° 52.756' N 2° 05.756' E		53° 37.434' N 0° 56.268' E
53° 52.410' N 2° 06.283' E		

Cable Laid (exposed) areas:

Area 1 Coordinates	Area 2 Coordinates	Area 3 Coordinates
53° 44.566' N 1° 22.463' E	53° 47.172' N 1° 41.782' E	53° 52.409' N 1° 53.961' E
53° 43.861' N 1° 22.798' E	53° 47.591' N 1° 44.126' E	53° 53.375' N 1° 50.922' E
53° 43.030' N 1° 16.006' E	53° 50.284' N 1° 47.307' E	53° 52.833' N 1° 50.921' E
53° 42.358' N 1° 16.279' E	53° 50.054' N 1° 48.132' E	53° 53.670' N 1° 42.618' E
53° 42.935' N 1° 14.426' E	53° 51.156' N 1° 47.925' E	53° 53.182' N 1° 42.819' E
53° 42.326' N 1° 14.783' E	53° 50.698' N 1° 48.464' E	53° 52.961' N 1° 53.946' E
53° 38.835' N 1° 2.301' E	53° 51.548' N 1° 50.956' E	53° 52.088' N 1° 58.953' E
53° 38.161' N 1° 2.626' E	53° 51.061' N 1° 51.350' E	53° 52.620' N 1° 58.794' E
53° 38.015' N 0° 56.001' E	53° 52.567' N 1° 53.016' E	53° 52.359' N 2° 06.081' E
53° 37.400' N 0° 56.345' E	53° 52.409' N 1° 53.961' E	53° 52.828' N 2° 06.488' 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° 04.698' 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° 04.027' E	53° 31.827' N 0° 38.035' E	53° 37.261' N 0° 53.764' E
Area 2 Coordinates	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° 30.275' N 0° 32.479' E	53° 30.877' N 0° 06.452' E		53° 37.409' N 0° 51.829' E
53° 30.867' N 0° 32.218' E	53° 30.910' N 0° 14.214' E		53° 37.548' N 0° 49.838' E
53° 35.257' N 0° 43.446' E	53° 31.501' N 0° 14.720' E		53° 37.789' N 0° 53.570' E
53° 35.833' N 0° 45.021' E	53° 31.521' N 0° 06.032' E		53° 38.020' N 0° 55.915' E
53° 37.412' N 0° 56.136' E	53° 31.544' N 0° 12.158' E		
53° 38.014' N 0° 55.887' E	53° 32.168' N 0° 12.227' E		
	53° 30.310' N 0° 04.199' E		
Area 3 Coordinates	53° 29.957' N 0° 04.941' E		
53° 43.874' N 1° 22.677' E	53° 31.111' N 0° 05.198' E		
53° 44.497' N 1° 22.307' E	53° 30.668' N 0° 06.038' E		
53° 52.960' N 1° 43.358' E	53° 31.454' N 0° 05.712' E		
53° 52.957' N 1° 42.537' E	53° 30.872' N 0° 06.411' E		
	53° 31.525' N 0° 06.036' E		
	53° 30.900' N 0° 06.689' E		

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

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

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

Seabed Activity

First Published: 06 September 2018 | **Latest Update: 27 September 2018**

Rampion Wind Farm – Installation of New Export Cable

Map Link

The Costa La Luz call sign: EANU is planned to arrive on or around the 08/10/2018 at the nearshore export cable location. Operations are to backfill the float pits planned to last approximately 50 days weather permitting.

The vessel will transit between the spoil grounds NW of the OSP where she will collect the spoil taken out of the pits and return it to its origin. The vessel will transit up and down the export cable route.

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

Mariners are advised to give the vessel a wide berth as the vessel will be restricted in manoeuvrability whilst carrying out operations. All vessels are requested to remain a minimum safe distance of 500m from the vessel during operations and whilst she is on location.

Spoil Location Coordinates: 50°41.826'N 00°16.388'W

Work Area Coordinates:

Coordinates
50°48.637'N 00°19.763'W
50°48.588'N 00°19.970'W
50°47.924'N 00°19.624'W
50°47.999'N 00°19.323'W

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

Survey

First Published: 01 November 2018 | **Latest Update: 01 November 2018**

Humber Gateway One Wind Farm – Survey

Mariners are advised that survey vessel 'Fast Fisher' will be performing a Sidescan Sonar (SSS) survey on 2nd November 2018, weather permitting. The work will extend from the Humber Gateway Offshore Substation to landfall at Easington.

53°39.600'N 000°15.000'E

Mariners are requested to keep well clear and pass slowly, particularly when the craft is carrying out survey operations. Vessels are requested to:- Keep wash to a minimum. Give 'Fast Fisher' a wide berth of 100m during these operations

For further information: Alex Richards, James Fisher, Tel: 01208 77033 email: a.richards@james-fisher.co.uk

Seabed Activity

First Published: 20 September 2018 | **Latest Update: 20 September 2018**

East Anglia One Wind Farm – Export Cable Installation & Burial

Please be advised the Maersk Connector shall commence Export Cable Installation and Burial operations from 28th August for 8 to 10 weeks. The Maersk Connector is equipped with 6 anchors with have each 1000 meters of wires.

The vessel will run these wires back and forth and deploy and recover the anchors as required. An anchor buoy will be deployed at the anchor positions. The Maersk Connector will request a wide berth of at least 1500 meters.

Cable will now be landed 23rd September 2018 subject to weather

The following tugs will be assisting with the operations: C-Fenna, Forth Worrier, Green Isle And the Smit Sentosa
The Maersk Connector can be contacted on VHF channel 16 and will transmit Nav warnings on Ch69.

Anchor ID	Coordinates	Anchor ID	Coordinates
1	51°59.167'N 001°26.717'E	25	51°59.700'N 001°26.400'E
2	51°59.200'N 001°26.117'E	26	51°59.783'N 001°26.817'E
3	51°59.217'N 001°26.350'E	27	51°59.783'N 001°26.183'E
4	51°59.217'N 001°26.033'E	28	51°59.783'N 001°26.667'E
5	51°59.250'N 001°27.233'E	29	51°59.817'N 001°26.750'E
6	51°59.267'N 001°26.133'E	30	51°59.817'N 001°26.733'E
7	51°59.267'N 001°26.000'E	31	51°59.817'N 001°25.517'E
8	51°59.300'N 001°26.650'E	32	51°59.833'N 001°26.767'E
9	51°59.317'N 001°26.933'E	33	51°59.850'N 001°25.917'E
10	51°59.333'N 001°26.050'E	34	51°59.883'N 001°27.067'E
11	51°59.367'N 001°27.033'E	35	51°59.883'N 001°26.117'E
12	51°59.400'N 001°27.533'E	36	51°59.883'N 001°25.983'E
13	51°59.400'N 001°27.283'E	37	51°59.900'N 001°26.967'E
14	51°59.433'N 001°27.233'E	38	51°59.900'N 001°26.067'E
15	51°59.433'N 001°27.650'E	39	51°59.917'N 001°26.033'E
16	51°59.417'N 001°25.767'E	40	51°59.950'N 001°27.033'E
17	51°59.450'N 001°25.733'E	41	51°59.967'N 001°25.900'E
18	51°59.517'N 001°27.667'E	42	52°00.017'N 001°27.583'E
19	51°59.517'N 001°27.450'E	43	52°00.033'N 001°27.267'E
20	51°59.550'N 001°25.617'E	44	52°00.050'N 001°27.450'E
21	51°59.333'N 001°28.217'E	45	52°00.100'N 001°27.833'E
22	51°59.433'N 001°28.267'E	46	52°00.100'N 001°27.733'E
23	51°59.600'N 001°28.050'E	47	51°59.850'N 001°28.717'E
24	51°59.700'N 001°26.583'E	48	51°59.983'N 001°28.367'E

For further information: *Alan Thoms, East Anglia ONE project, Tel: 01416144880 email: EA1_MCC@scottishpower.com*

Seabed Activity

First Published: 04 October 2018 | **Latest Update: 04 October 2018**

East Anglia One Wind Farm – Cable Crossings and Wet Stowed cable end

Please be advised that as of week 40 of 2018, guard vessels 'Ardent' and 'Isla B' will be providing guard vessel duties for East Anglia One at the wind farm's 'cable crossings' and 'wet stowed cable end'.

Guard Vessel Ardent will be covering 'crossing 1' (Farland, Gabbard & Galloper) Guard Vessel 'Isla B' will cover 'Crossing 2' (Concerto & Cable 1.1 End) Both vessels will be broadcasting safety information periodically on VHF CH 16.

Crossing	Cable Out	Cable In
Fairland	52°05.290'N 01°45.440'E	52°05.382'N 01°45.534'E
CG West	52°05.732'N 01°46.048'E	
CG East		52°05.846'N 01°46.295'E
Galloper 1	52°06.015'N 01°46.661'E	
Galloper 2		52°06.095'N 01°46.836'E
Cable Laydown	52°09.229'N 01°57.776'E	
Concerto South	52°09.023'N 01°56.946'E	

For further information: *Alan Thoms, East Anglia ONE project, Tel: 01416144880 email: EA1_MCC@scottishpower.com*

Deployment of Buoys

First Published: 18 October 2018 | **Latest Update: 18 October 2018**

East Anglia One Wind Farm – Wave Rider Buoy

East Anglia ONE Offshore Windfarm will install meteorological monitoring buoy in the proposed following location Circa 07-10-2018 until further notice by the Heavy lift vessel Aegir.

Coordinates: 52°08.64'N 002°32.5'E. (approx. 0.4nm due east of the South Cardinal Buoy)

For further information: Anthony Robson, Tel:01416144880 email: EA1_MCC@scottishpower.com

Deployment of Buoys

First Published: 23 August 2018 | **Latest Update: 06 September 2018**

Norfolk Boreas 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 in the vicinity of the EA ZE Met Mast in the north-east of the Norfolk Boreas Offshore Wind Farm development zone.

One surface Directional Waverider Buoy, two CEFAS Toroidal Guard Buoys and one seabed frame-mounted AWAC were deployed on 11th May 2018 and will remain in position for one year.

Work will be conducted from onboard CEFAS Endeavour - Call Sign: VQHF3.

Equipment	Deployment	Recovery	Locations
Wave Buoy	11th May 2018	31st May 2019	53°10.644'N 02°59.369'E
Guard Buoy 1	11th May 2018	31st May 2019	53°10.753'N 02°59.370'E
AWAC	11th May 2018	31st May 2019	53°10.617'N 02°58.714'E
Guard Buoy 2	11th May 2018	31st May 2019	53°10.752'N 02°58.828'E

For further information: Jaqueline Read, Cefas, Tel: +44(0)7903952360 email: Jacqueline.read@cefas.co.uk

North Coast of Cornwall – Wave Hub Subsea Cable Safety Notice

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

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

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

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

a. From the shore to KP1.9 the subsea power cable remains buried to the design depth of 1.5m from top of product

b. Due to varying sediment depths alongside shallow burial or a partial rock berm, From KP 1.9 to KP 8.1 the subsea power cable is in many areas exposed or carries a high risk of exposure

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

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

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

Wave Hub AtoN Name	Details	Assigned Position	Current Status
Wave Hub NW N18100	North Cardinal – 3m Diameter Buoy 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	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 email: Julius.besterman@wavehub.co.uk*

Area 5

Notice to Fishermen

First Published: 30 September 2018 | **Latest Update: 30 September 2018**

Hazard to Fishermen – Dropped Ladder

Map Link

Old access ladder from Met Mast 1 at the Shell Flats Wind Farm. The ladder is sticking up 1.5 metres above the seabed and is 50cm wide (the ladder may also be buried several metres into the seabed). The ladder has become uncovered due to seabed movement and a survey of the area in October will provide further information and evidence.

53°51.599'N 03°17.774'W

For further information: *Gavin Scarff, Orsted, Tel: +44 74 6 9377056 email: GAVSC@orsted.co.uk*

Seabed Activity

First Published: 06 September 2018 | **Latest Update: 06 September 2018**

Robin Rigg Offshore Wind Farm – Shallow Buried Cable

Mariners are advised that the most recent survey of the east and west export cables of the Robin Rigg OWF have indicated several areas of shallow buried cables, calculated to be buried to less than 0.2 m below seafloor.

ID	Longitude	Latitude
1	54°41.242'N	003°32.977'W
2	54°41.320'N	003°33.165'W
3	54°41.631'N	003°33.874'W
4	54°42.272'N	003°35.423'W
5-1	54°43.814'N	003°39.099'W
5-2	54°43.764'N	003°39.164'W
5-3	54°44.029'N	003°39.804'W
5-4	54°44.083'N	003°39.746'W
6-1	54°44.775'N	003°41.366'W
6-2	54°44.704'N	003°41.449'W
6-3	54°44.766'N	003°41.611'W
6-4	54°44.841'N	003°41.518'W

Fishermen are requested and advised to avoid trawling or setting any pots along the Export Cable Route at the positions marked as being shallow buried.

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*

Extra…

Local Awareness Charts

Chart	Area	Location	Turbines	Developer	Completed	Link
Barrow	5	7km dudgeon Island	30	Orsted	1 Jul 2006	Download
Blyth	2	1km N.E Coast	2	E.ON	-	Download
Burbo Bank	5	5.2km Crosby	25	Orsted	27 Oct 2007	Download
Dudgeon	3	38km Outer Wash	67	Statkraft / Statoil	-	Download
Greater Gabbard	3	26km off Orford, Sufflk	140	SSE & RWE Npower / Innogy	7 Sept 2012	Download
Gwynt y Mor	5	13km off N Wales Cst	160	RWE Innogy / SWM	18 Jun 2015	Download
Gunfleet Sands 1, 2 & 3	3	8.5km off Clacton-On-S	50	Orsted	19 April 2010	Download
Humber Gateway	3	8km off Holderness Cst	73	E.ON UK	5 Jun 2015	Download
Hywind	2	25km off Peterhead	5	Statoil	-	Download
Inner Dowsing	3	5km off Skegness	27	Siemens	30 Mar 2009	Download
Kentish Flats	3	9km off Whitstable	30	Vattenfall	1 Oct 2015	Download
Lincs	3	8km off Skegness	75	Centrica	10 Oct 2013	Download
London Array	3	24km off Clacton-on-S	175	Orsted	1 May 2013	Download
Lynn	3	5km off Skegness	27	Siemens	30 Mar 2009	Download
North Hoyle	5	7.5km off Prestatyn	30	RWE Innogy UK	1 Dec 2003	Download
Race Bank	3	27km Lincolnshire	91	Orsted	-	Download
Ormonde	5	off Walney Island	30	Vattenfall	22 Feb 2012	Download
Rampion	3	Off Sussex Coast	116	E.ON UK Renewables	-	Download
Rhyl Flats	5	8km Abergele	25	RWE Innogy UK	2 Dec 2009	Download
Robin Rigg	5	9.5km Maryport	60	E.ON UK Renewables	16 Apr 2010	Download
Scroby Sands	3	3km NE Great Yarmth	30	E.ON UK Renewables	1 Mar 2004	Download
Sheringham Shoal	3	Sheringham, Grtr Wash	88	Statkraft / Statoil	27 Sep 2007	Download
Teesside	3	1.5km NE Teesmouth	27	EdF ER	1 Aug 2013	Download
Thanet	3	11km Foreness Point	100	Vattenfall	23 Sept 2010	Download
Walney 1	5	14km Walney Island	51	Orsted / SSE (+ prtnrs)	9 Jan 2012	Download
Walney 2	5	14km Walney Island	51	Orsted / SSE (+ prtnrs)	9 Jan 2012	Download
West of Duddon Sands	5	14km Walney Island	108	Scottish Power / Orsted	30 Oct 2014	Download
Westermost Rough	3	25km north of Spurn P	35	Orsted	26 Mar 2015	Download

National Awareness Charts

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

National Fishing Plotter Files

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