

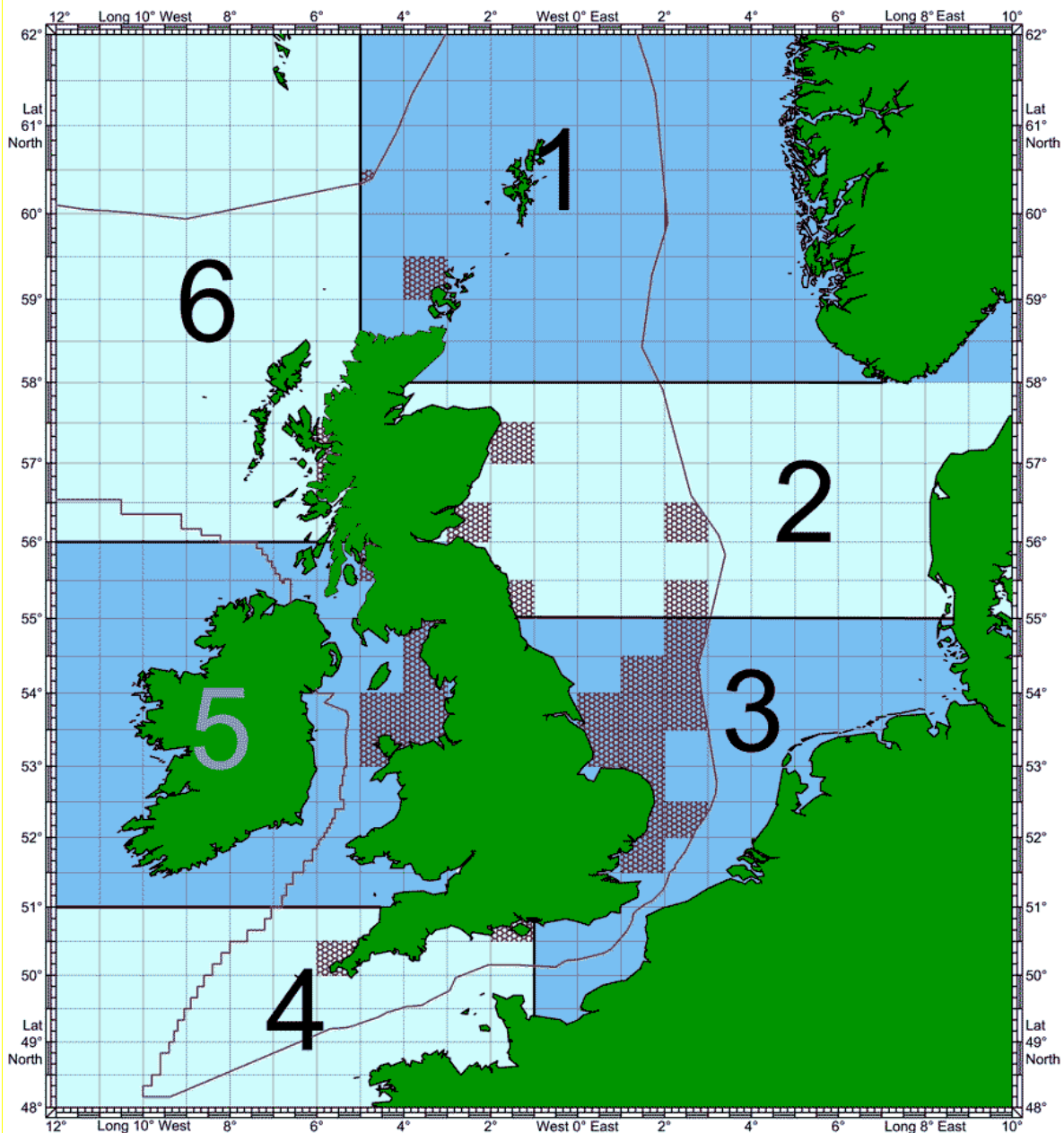


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The shaded blocks below indicate the areas of activity published within this Bulletin.



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* Unless otherwise stated, all co-ordinates listed in this Bulletin refer to WGS84 datum

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Orkney – Waverider Deployments (Update 28-03-2012)

Partrac deployed two Waverider buoys this week

Site	Latitude	Longitude
Waverider 1	59° 11.19 'N	003° 16.02 'W
Waverider 2	59° 14.58 'N	003° 17.03 'W

The Waverider buoys are 0.9 m in diameter and bright yellow in colour.

They will transmit a light sequence as FI Y (5) 20s from a 2m whip antenna and are each moored using a single point compliant mooring with a scope of up to 200m. These items will remain in place for 12 months. Avoidance to a range of 500m is requested.

For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmckay@partrac.com

Brough Head Wave Farm Site– Survey Activities (Update 21-03-2012)

Mariners are advised that hydrographic surveys are currently taking place at the Brough Head Wave Farm Site. Due to the current weather conditions survey operations will intermittently be taking place during the next two months.

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Start Timeframe & Duration
Centrica Energy Remote Sensor Call Sign: MQAM3		59° 08.515 'N 003° 10.167 'W 59° 11.040 'N 003° 11.679 'W 59° 09.729 'N 003° 20.474 'W 59° 09.197 'N 003° 22.961 'W 59° 07.708 'N 003° 23.291 'W	21 st March 2012 – 21 st May 2012
Marine Sensor Call Sign: MLLR2		59° 06.604 'N 003° 24.556 'W 59° 03.962 'N 003° 23.966 'W 58° 58.953 'N 003° 25.438 'W 58° 58.939 'N 003° 21.667 'W	

For further information, please contact: Andrew Stenson, RPS Energy, Tel: 01483 756 500. Email: stenson@rpsgroup.com

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Tees Offshore Wind Farm – Activities (Update 04-04-2012)

Teesside Offshore Wind Farm is located within Tees Bay approximately 1.5km off the coast of Redcar in Cleveland. The site will consist of 27 Siemens 2.3 MW Turbines and is connected by two undersea export cables to an onshore sub-station based at Warrenby. Construction has commenced and is planned to be completed by November 2012.

The South Cardinal Buoy and the West Cardinal Buoy have been displaced and are not at their correct location the original locations as follows:

Cardinal Buoy West: 55°39.02'N 001°07.26'W
Cardinal Buoy South: 54°38.07'N 001°05.18'W

Installation

The Jack-up vessel 'Sea Jack' is currently installing foundation monopoles. Other vessels including the 'Lesley Jay' & 'Ailsa' - Dive Support Vessels, 'Sea Golf' & 'Sea Bever' – Tugs and the 'Tarka 3' - Guard Vessel, will be on site.

During the construction phase of the project, PD Teesport will implement a Safety Zone marked by four Cardinal Buoys around the construction zone. The cardinal buoys will mark the corners of an area designated by the Harbour Authority as a "Safety Zone" between the 1st February 2012 and November 2012.

For further information, please contact: Simon Prince / Richard Hart, RSS Marine, Tel: 01723 893930, Mob: 07920 273866, Email: sprince@rssmarine.co.uk

European Offshore Wind Deployment – Survey Activities (New 28-03-2012)

Mariners are advised of the following operation off the coast of Aberdeen. Nature of operations: Cetacean and seabird survey. Visual observations from the boat whilst steaming along set transect lines. Vessel will be towing a hydrophone behind the vessel on a 100 m cable approximately 5m below the surface. The survey will take place over 3 periods of 2 days within the named time period.

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Start Timeframe & Duration
SMRU Ltd Eileen May		57° 24.583 'N 001° 51.099 'W 57° 23.540 'N 001° 47.427 'W 57° 15.195 'N 001° 55.747 'W 57° 15.216 'N 001° 38.590 'W 57° 12.008 'N 001° 38.576 'W 57° 11.987 'N 001° 56.797 'W 57° 01.439 'N 002° 01.707 'W 57° 02.364 'N 002° 07.598 'W	26 th March 2012 – 31 st May 2012

For further information, please contact: Jared Wilson, SMRU Ltd, Tel: +44(0)1334 479100, email: jmw@soi.ltd.uk

Narec Offshore Wind Farm Test Site – Removal of Buoys (New 01-03-2012)

The Partrac survey team plans to remove the following items from Narec's wind farm test site area (Blyth) on Thursday 08/03/2012:

A1 AWAC	55°08.948'N 001°28.562'W
A2 AWAC	55°08.713'N 001°24.679'W
A3 AWAC	55°11.220'N 001°23.608'W
A4 AWAC	55°08.588'N 001°17.220'W
Waverider W1 will be serviced and remain in place	W1 Waverider 55°08.890'N 001°17.596'W
Waverider W2 has been removed	W2 Waverider 55°14.330'N 001°05.535'W

Each AWAC has a ground weight adjacent to it, and the locations are as follows:

1. A1 AWAC ground weight 55°08.983'N 001°28.587'W
2. A2 AWAC ground weight 55°08.679'N 001°24.625'W
3. A3 AWAC ground weight 55°11.168'N 001°23.528'W
4. A4 AWAC ground weight 55°08.559'N 001°17.169'W

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Four subsea frames are currently in place. Each frame is 1.8 m x 1.7 m [w x h], hexagonally shaped and moored with sufficient ballast to prevent any movement under wave or tidal forcing. The instrument is housed vertically within the frame, approximately 0.5 m above the seabed. There are no surface markers at these locations.

Each Waverider buoy is 0.9 m in diameter and bright yellow in colour. They transmit a light sequence as FI Y (5) 20s from a 2 m whip antenna and are moored using a single point compliant mooring with a scope of up to 200 m. All items will remain in place until the end of March 2012.

For further information, please contact: Judy McKay, Partrac Ltd, Tel: +44(0)141 552 3903 , email: jmckay@partrac.com

Firth of Forth Offshore Wind Round 3 – Survey Activities (Update 21-02-2012)

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Start Timeframe & Duration
Partrac Ltd Vessel: Princess Royal Call Sign:		1. 56°31.69'N 002°34.16'W 2. 55°58.33'N 002°21.31'W	15 th December 2011 – 19 th May 2012

For further information, please contact: Peter Wilson, Partrac Ltd, Tel: +44(0)141 552 3903 email: pwilson@partrac.com

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Hornsea Offshore Wind Farm – Survey Activities (Update 11-04-2012)

Buoys

Meteorological buoys are located at locations 1 and 2. A directional wave rider (DWR) buoy is located at location 7a. All locations are detailed in Table 1.0. Lighting and navigational aspects of the meteorological buoys are to Trinity House and IALA standards; they are equipped with a St. Andrew's cross, radar reflector and an amber navigation light set to flash 5 times at 1Hz every 20 seconds. The DWR buoy is painted to IALA standard and is equipped with a radar reflector and an amber navigation light set to flash 5 times at 1Hz every 20 seconds. The DWR buoy is moored to the seabed through a series of rubber compliant sections at the sea surface and a stainless steel riser line throughout the water column. The result of this mooring configuration is a large excursion of the buoy about its mooring; we ask that passing vessels give the buoy a wide berth of approximately 300m.

The meteorological buoys at Well Bank Flat (location 1) and Inner Well Bank Rough (location 2) have been serviced. The DWR buoy at Schooner Field (location L7a) has also been serviced. There is no planned servicing of metocean equipment in the Hornsea Zone until September.

Survey operations have been completed which included the removed of two meteorological buoys from Chiswick Field and Ravenspurn Field locations.

Location	Suggested Name	Equipment	Latitude	Longitude
1	Well Bank Flat	Met. buoy + AWAC	53° 58.200'N	1° 23.580'E
2	Inner Well Bank Rough	Met. buoy	53° 52.950'N	1° 59.190'E
7a	Schooner Field	DWR buoy	53° 53.367'N	1° 59.100'E

Surveys

The MV Southern Star (call sign C6DZ8), a 36 m survey vessel will be conducting a bird and marine mammal survey within the Hornsea Zone, running predetermined transect lines spaced 6 km (3.2 Nm) and 2 km (1.08 Nm) apart at a speed of 10 kts. These surveys will be undertaken monthly during daylight hours – dawn until dusk. The vessel will be towing a hydrophone astern, on approximately 200 m of cable towed at ~7 m depth or less, during daylight hours only.

A meteorological mast is located at the coordinates below. Lighting and navigational aspects of the meteorological mast are to Trinity House and IALA standards. The mast is marked by 4 cardinal buoys located 1km north, south, east, and west from the coordinates.

PLEASE NOTE: It has been brought to our attention that the primary and emergency fog horns on the Hornsea Met Mast are not functioning. Be extra vigilant when navigating in adverse foggy conditions in the met mast area, the location of the mast is given below:

Met Mast Location: | 53°53.149'N 001°59.497'E

For a copy of the Kingfisher Awareness Flyer for the proposed Hornsea Offshore Wind Farm, please click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Hornsea Offshore Wind Farm](#)

For further information, please contact: Chris Jenner, Tel: 07889410553, Email: Chris.Jenner@mainstreamrp.com, OR Hornsea Zone Onshore Fisheries Liaison Officer: Nick Garside, NFFO Services Ltd, Tel: 01904 635 432, Email: nick.garside@live.co.uk

London Array Offshore Wind Farm – Construction Works (Update 08-04-2012)

The London Array Offshore Wind Farm will be constructed in the Outer Thames Estuary, it will be situated midway between the Kent and Essex coastlines, more than 20km (12 miles) from each shore. Phase one consist of 175 wind turbines, installed on two sandbanks; Long Sand and Kentish Knock and in the Knock Deep channel that lies between, in water depths ranging from 0 to 25 m. The project will be connected by subsea cables to a new onshore substation at Cleve Hill on the North Kent coast.

- A 500m radius around each wind farm structure within the construction zones while construction work is ongoing;
- A 50m radius around each wind farm structure, complete or incomplete (until commissioned as part of the Wind Farm);
- A 500m radius around all major maintenance works of wind farm structures.

Work Schedule

Foundation installation vessel MPI Adventure. Return to Vlissingen and load F01,J10 & L12. Return to site to install. Whilst construction is taking place at these positions a 500m safety zone is established, and vessels are to keep clear.

The Wind Turbine installation jack up Sea Worker and assist tugs Sea Alfa, Sea Echo, Gray Vixen & Gray Tess will install M20 & E18. Whilst construction is taking place at these positions a 500m safety zone is established, and vessels are to keep clear.

The Wind Turbine installation vessel MPI Discovery has loaded in Esbjerg and has sailed to site, to install WTGs D07, E05,E06, D04, D05 & D06. Whilst construction is taking place, a 500m safety zone is established, and vessels are to keep clear.

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The Array cable installation vessel Stemat 82 and assist tugs Lydia D and Yvonne W will install array cable SS1 to E17, followed by E18 to F19. Whilst construction is taking place, a 500m safety zone is established, and vessels are to keep clear. The Array cable installation vessel Stemat Olso and assist tugs Sea Charlie and Maggie M will install array cable K19 to L19 & M19 to M20. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear. The Array cable installation vessel Pontra Maris and assist tugs Amstel Stroon and Odin, have arrived at Sheerness for mobilization. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear. The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britnet cable, are guarded by the guard vessel "Our Pride".

The unburied section of the export cable in the Swale channel is guarded by the vessel Sorrento. The vessel Coastal Worker assisted by the Sara Maatje 6 will be carrying on with export cable burial in the Swale and at the Kentish Flats cable crossing. During these operations a 500m safety zone is established, and vessels are to keep clear. The vessel Nova K, will be undertaking survey and PLGR work on the array cable routes. The vessel 'Waterfall' will be undertaking Marine Mammal Observation duties, prior to and during piling operations. This vessel will also undertake site survey duties. Construction site guard vessel duties will be covered by the Mary Ann 1. Crew boats Marian Array, Smeaton Array, Conwy Bay, Towyn Bay, Cemaes Bay, Svend T, MPI Rucio, Cwind Alliance, Cwind Athenia, MCS Maestro, Transporter, Distributor, Voyager, Bayard 1, Bayard 2, Cathrin, Sea Rex, Windcat 7, Windcat 4, Gardian 1, Gardian 7, Windspeed 4, Dalby Humber and Sea Weasel, will take offshore technicians to the installed foundations and construction vessels, and perform personnel transfer duties.

The vessel 'Valkyrie' to undertake site survey work. The Vessel 'Seabeam' to undertake survey work on phase two site

Rock Installation

Please be advised that the side stone dumping vessel HAM 601 will be conducting Subsea Rock Installation from 14th April 2012 until 10th May 2012 in the following areas:

Shivering Sand anchorage	51°30.13'N	001°08.08'E
BritNed HVDC interconnector crossing	51°28.50'N	001°17.50'E
Kentish Flats export cables crossings	51°25.25'N	001°06.00'E

Installations

91 Foundation monopiles and transition pieces and two substations have been installed (*Please view the Kingfisher Flyer for installation coordinates*).

All Foundations are installed with Lights : FI(Y) 2.5sec 2Nm. Two wave rider buoys installed as listed below. The wave rider buoys are protected by 2 guard buoys (Lt. FI (5) Y 20sec 2nm) approx 50m to the North and South of each wave rider buoy.

Knock Deep (North) - 51°36.960'N 01°30.310'E (FI (5) Y 20s 2nm) | Knock Deep (South) - 51°35.000'N 01°29.930'E (FI (5) Y 20s 2nm)

For a copy of the Kingfisher Awareness Flyer for the London Array Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: London Array Offshore Wind Farm

For further information, please contact: Anker Lauritsen, Email: londonarraytraffic@dongenergy.dk, Tel: +44(0)7909414690 or +45 31727585

Lincs Offshore Wind Farm – Construction Activity & Survey (Update 05-04-2012)

Cable Installation

Mariners are advised to note that construction works within the Lincs site are fully underway, with 69 of 75 foundations installed. Of these, twenty one (21) locations have monopiles only installed (no Transition Piece).

Construction Activity

Further piling at LS20, LS22 and LS59 via the Resolution will take place this week. Transition Pieces will be installed at these three locations. 500m Safety Zones will exist around these foundation structures during installation, reverting to a 50m Safety Zone once the initial works are completed. There is also the potential that the Resolution will revisit LS63, LS64 and LS65 this week to undertake final piling of these semi-installed structures. Drilling via the JB114 is planned for LS60 this week. 500m

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Safety Zones will occur around any location where drilling is taking place. 500m safety zones will also apply around any structure where secondary works are underway, since diving operations are taking place. This includes the offshore substation. In the absence of any installation activity, 50m Safety Zones will exist around completed foundation structures. Temporary navigation lights (FI Y 2.5s with 2nm range) are in place on all installed foundations.

Special mark and cardinal buoys remain in place along the northern, eastern and southern edge of the site to define the boundary of the Lincs OWF site

50m Safety Zones

LS41, LS42, LS44, LS47, LS61, LS62, LS19, LS28, LS33, LS51, LS25, LS26, LS27, LS09, LS10, LS11, LS12, LS16, LS17, LS23, LS71, LS46, LS39, LS48, LS36, LS07, LS38, LS08, LS24, LS43, LS45, LS30, LS31, LS32, LS13, LS14, LS29, LS01, LS02, LS03, LS04, LS05, LS18, LS15, LS70, LS72, LS06, LS40, LS49, LS50, LS37

500m Safety Zones

Monopiles only installed (no Transition Pieces) LS07, LS36, LS37.

Coordinates of Operations

The position and type of these buoys is shown below:

- | | |
|--|---|
| 1. East Cardinal (VQ (3) 5s) - 53°07.540'N 00°29.790'E | 5. Special Mark (FI Y 2.5s) - 53°13.800'N 00°30.940'E |
| 2. East Cardinal (VQ (3) 5s) - 53°09.070'N 00°31.490'E | 6. North Cardinal (VQ) - 53°15.170'N 00°30.350'E |
| 3. Special Mark (FI Y 2.5s) - 53°10.970'N 00°31.500'E | 7. West Cardinal (VQ (9) 10s) - 53°14.670'N 00°27.020'E |
| 4. East Cardinal (VQ (3) 5s) - 53°12.440'N 00°31.460'E | 8. West Cardinal (VQ (9) 10s) - 53°09.450'N 00°28.050'E |

For a copy of the Kingfisher Awareness Flyer for the Lincs Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Lincs Offshore Wind Farm](#)

For further information, please contact: Email: Renewables@Centrica.com OR a Fisheries Liaison Officer (FLO) will be aboard the survey vessel for the duration of the proposed works – Mob: 07831705192).

Inner Dowsing Offshore Wind Farm – Maintenance (Update 04-04-2012)

Mariners are advised that maintenance work is continuing within the Inner Dowsing Offshore Wind Farm site. This Notice to Mariners details the location of the new Exclusion Zones which will be effective from 14 April 2012, and also details which of the Exclusion Zones previously notified in relation to these works will be removed from 14 April 2012. The previous notification in relation to these works, issued in March 2012, remains in place until 14 April 2012

Activity: Wind Turbine Maintenance Works: Planned start date: 14 April 2012 Approx. end date: 31 May 2012
Vessel Name: MS Wind

A replacement wave rider buoy is being deployed by Vessel: Windcat 14 between 30th April 2012 and 25th May 2012 at the following position:

53°11.78'N 000°26.78'E

For further information, please contact: Alexandra Bowers, RPS Energy, Tel:+44 (0) 1483 746 500, Email:bowersa@rpsgroup.com.

Sheringham Shoal – Installation, Survey, Deployment of Buoys (Update 03-04-2012)

During the night between 19 and 20 December SEA JACK lost one midline Buoy. The buoy is round and yellow approximately 2 meters wide and 1,5 meter high. The buoy should still be floating, and no wires are attached to the buoy.

SEA JACK was jacked up at location J2 in the Sheringham Shoals Windfarm (53°08.648'N 001°10.555'E)

Rock Installation

Please be advised that the MPV Vessel Jam Steen will be conducting Subsea Rock Installation from 14th April 2012 until 10th May 2012 and Side Stone Dumping Vessel Ham 602 from 10th May 2012 until 15th July 2012 in the following areas:

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Shivering Sand anchorage	51°30.13'N	001°08.08'E
BritNed HVDC interconnector crossing	51°28.50'N	001°17.50'E
Kentish Flats export cables crossings	51°25.25'N	001°06.00'E

Installation

The Jack up Installation Barge (J.I.B.) SEA JACK will be working in the Sheringham Shoal Wind Farm Construction Zone. In the zone she will install the two Tower modules, followed by Nacelle and three separate rotor blades.

Boundaries of this zone are identified by 4 cardinal buoys in the below listed positions:

- North Cardinal – 53°09.913'N 001°07.686'E – (VQ)
- South Cardinal – 53°06.361'N 001°10.000'E – (VQ(6) + LFI 10 sec)
- East Cardinal – 53°07.318'N 001°12.287'E – (VQ(3) 5 sec)
- West Cardinal – 53°08.956'N 001°05.413'E – (VQ(9) 10 sec)

The SEA JACK will be positioned using four anchors, placed by Anchor Handling tugs. The anchors will be marked by yellow buoys. The installation will then take place using the vessels crane, when the vessel is fully jacked out of the water.

The operation will start from 1st September 2001 and it will last until mid-January 2012. In this period the vessel will be in transit between Great Yarmouth and the construction zone. During these passages the vessel will be towed and the tow will exceed 200m.

For further information, please contact: HLV Oleg Strashnov, Tel +870 7650550118, Email: OS-Bridge@SHL.com.cy

Westermost Rough Offshore Wind Farm – Deployments (Update 29-03-2012)

Please be advised of the proposed works in the Westermost Rough Offshore Wind farm zone to deploy 2 Triaxys Wave Buoys and 4 Guard Buoys.

A Geotechnical investigation for planned wind turbine and substation location is to take place. Further a cable route survey for array cables interconnecting the turbines and along the export cable are to be performed. Mariners are advised that the Excalibur with its support tug MTS Valiant continue to operate on the Westermost Rough offshore wind farm site. These works, which commenced on the 16th November 2011 are expected to take 120 days to complete (weather dependent).

MTS Valiant is being used to both move Excalibur and as a material and crew transfer vessel entering in and out of Grimsby. Operations take place 24 hours per day. Coastal Enterprise will arrive on site around 28th January 2012 and will operate from Grimsby. Operations on this vessel will be for 12 hours per day only, although the start and end times of work will vary with the tides. Fugro Commander will arrive on site around the 10th February and will operate from Great Yarmouth. Operations on this vessel will take place 24 hours per day.

The buoys will be deployed in 2/3 days visits between the 4th April 2012 and 15th April 2012.

- | | | | |
|-----------------------|--------------------------|-----------------------|--------------------------|
| 1. Wave buoy WMR1 | 53°50.261'N 000°09.656'E | 4. Wave buoy WMR2 | 53°48.292'N 000°07.364'E |
| 2. WMR1 marker buoy 1 | 53°50.261'N 000°09.577'E | 5. WMR2 marker buoy 1 | 53°48.292'N 000°07.279'E |
| 3. WMR1 marker buoy 2 | 53°50.261'N 000°09.735'E | 6. WMR2 marker buoy 2 | 53°48.292'N 000°07.445'E |

For further information, please contact: Matt Linham, EMU Limited, Tel: 02392 205510, Email: matthew.linham@emulimited.com

Humber Gateway Offshore Wind Farm – Deployment (New 20-03-2012)

Please be aware that oceanographic measurement instrumentation has been deployed in the vicinity of E.ON's Humber Gateway Meteorological Mast. The equipment is marked by a Surface Marker Buoy at:

53°38.179'N, 000°15.835'E (approx 150m to the ESE of the mast)

The equipment is likely to be in place for up to three months. The buoy has radar reflectors and a yellow flashing light. The flash sequence of the light is 5 flashes at 1 Hz every 20 seconds. The seabed equipment is not located directly below the surface mark; therefore a clearance of at least 100m is requested, with a clearance of 200m requested for trawling activities.

For further information, please contact: Samantha Row, Emu Ltd, tel: 07810 697357, email: Samantha.roe@emulimited.com

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Dogger Bank Wind Farm – Current, Wave and Tidal Measurements (New 07-03-2012)

Mariners are advised that the M/V Forth Hunter deployed seabed-anchored wave, current and tidal measurement devices, as planned. The deployment locations were modified slightly; the as deployed locations of the equipment are shown below. The equipment shall remain in place for the rest of 2012. This information replaces that issued in the NtM of 16/02/12.

There shall be no buoy or other markers at the water surface to mark the positions of the equipment. The equipment will stand no more than 4.5m above the seabed.

The equipment has been deployed at: 54° 51.610'N 001° 59.640'W 55° 05.901'N 002° 42.040'W

Mariner are also reminded that Forewind Limited also have two wavebuoys in the Dogger Bank area, which are currently deployed in the following locations: 54° 51.683'N 001° 59.747'W 55° 29.550'N 002° 09.595'W

For further information, please contact: Simon Franey, Forewind Ltd, Tel: +44(0)7795 695755, email: simon.franey@forewind.co.uk

Dogger Bank Offshore Wind Farm – Survey Activities (Update 29-03-2012)

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Start Timeframe & Duration
Gardline Geo Surveys Ltd Vessel: Tridans 1 PIAO		55° 06.135'N 1° 51.894'E 55° 11.819'N 3° 07.871'E 54° 57.291'N 3° 01.912'E 54° 57.658'N 2° 29.117'E 54° 53.782'N 2° 22.531'E	4 th April 2012 – 25 th April 2012

For further information, please contact: Simon Franey, Forewind Ltd, Tel: 07795 695755 email: simon.franey@forewind.co.uk

Gunfleet Sands Offshore Wind Farm – Exposed Sections (Update 16-03-2012)

Please note these positions of exposed cable and mark them on your charts:

Start	51°44.593'N	001°13.455'E
Centre	52°16.941'N	001°12.169'E
End	51°44.587'N	001°13.460'E
Start	51°48.153'N	001°12.717'E
Centre	51°48.150'N	001°12.721'E
End	51°48.147'N	001°12.725'E

EXPORT CABLE / ADVISORY ANCHOR EXCLUSION ZONE

ALL MARINERS SHOULD NOTE THAT THERE IS AN ADVISORY ANCHOR EXCLUSION ZONE THAT EXTENDS FOR 200 METERS EITHER SIDE OF THE EXPOSED SECTIONS OF THE EXPORT CABLE AND YOU ARE REQUESTED TO AVOID ANCHORING IN THIS AREA, THIS ALSO INCLUDES ANCHORS THAT ARE ATTACHED TO STATIC FISHING GEAR

The Geophysical survey will be between 23rd March and 30th April 2012 for 3 days, The vessel Sv Yanlet, call sign: MSKL9. The Vessel Will Survey a 100m wide corridor along Export Cable Route between the wind farm and landfall site to the east of Clacton-on-Sea and in addition survey the seabed of an area 2400m x 100m around and between the six adjacent turbines, namely A6 to F6

The following positions define the export cable route:

51° 43'.79'N	001° 14'.30'E(sub station)
51° 45'.00'N	001° 13'.24'E
51° 45'.72'N	001° 13'.01'E
51° 45'.98'N	001° 13'.06'E
51° 48'.28'N	001° 12'.79'E
51° 48'.38'N	001° 12'.68'E(Shore)

For further information, please contact: Duncan Potter, Dong Energy, Tel: +44(0)1206 307915 email: dunpo@dongenergy.co.uk

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Greater Gabbard Offshore Wind Farm – Installation Activities (Update 07-03-2012)

Export Cable

Please be advised that the ASV Pioneer deployed Export cable end onto seabed at location 52°02.893'N 001°47.205'E Attached to cable end is 45m of Multi-Platt rope with 1 x Orange Norwegian buoy and two Yellow Grimsby Buoys. This is then connected by a 5m tail to two further Yellow Grimsby Buoys The buoys will be recovered upon completion of operations at this location.

Site Update (Inner Gabbard Field and Galloper Field)

These site areas are considered to be active construction zones with significant sub-sea cable installation operations and vessel movements and all non construction traffic (fishing and recreational) are requested to remain outside the consented boundaries of the site due to:

- Free Laid Exposed Cables on the seabed exist within both arrays (Inner Gabbard Array and Galloper Array) in locations between turbine locations. The vessel, Deep Cygnus will be joining the project and will be trenching in inter array cables.
- Exposed cable ends exist on all Turbine locations/Transition pieces where array cabling has been installed. These exposed ends are located between the Turbine Locations and up to 150 metres from them. Many of these cables are now live.
- The Sia, Topaz Commander & Deep Cygnus will be engaged in trenching inter-array cables within the Gabbard and Galloper fields. The OSV Relume will be working close to turbines in both fields performing diving operations.
- Construction vessel traffic for the array cabling programme and turbine installation for both fields is considerable and involves many support vessels including the primary vessels: Polar Prince, Topaz Commander, Deep Cygnus, Sia, OSV Relume and Sea Jacks Leviathan.

Please be advised of the cable crossing points below:

1. Concerto North Cable Crossing Point	52°11.723'N 001°40.876'E
2. Concerto South Cable Crossing Point	52°10.607'N 001°41.405'E
3. Farland Cable Crossing Point	52°05.084'N 001°46.746'E

A UXO (Unexploded Ordnance) has been positively identified in the position 51°50.856'N 001°55.357'E – please exercise caution in this area. Please also be advised there is a 500m safety zone in place around the Galloper Sub Station.

All fishing operations are requested to observe an advisory safety zone of 500m around the cable crossing points above and fishing vessels should exercise caution when engaged in fishing operations near these locations and the cable route.

For further information, please contact: Danbrit Ship Management Ltd, Onshore mobile Simon Prince 07920 273866, Simon Calden 07825 382896.

Rampion Offshore Wind Farm– Install a Metrological Mast (New 01-03-2012)

Fugro Seacore are contracted by EON to install a Metrological mast at the site of the proposed Rampion Offshore Wind Farm. The 60mx32m jackup barge 'Excalibur' will be used to install the 2.5m diameter monopile foundation and be the base of operations for subsequent mast erection and installation of navigation aids and telemetry systems. Excalibur will be mobilised in Newhaven, where the pile will also be berthed following delivery by flattop barge. The level of the installed platform will be 17.5m LAT and upon completion, will display the requisite navigation aids. Several vessels will be onsite to assist during the works as required including a vessel undertaking diving operations.

Vessels not involved in the operations are asked to keep a minimum 500m away from the construction jackup and any towing vessels.

Current planned dates: 2nd - 12th April – Installation of Met mast – Pile floated out to Excalibur on 3rd April.
13th -20th April – Demobilisation of vessel

The intended met mast location is: 50°41.267'N 000°20.583'E
Excalibur will be onsite for duration of main works and will display the requisite navigation lights.

For further information, please contact: Dave Buzzard, Fugro Seacore, Tel: 07815 834857 email:dbuzzard@seacore.com

Lynn Offshore Wind Farm – Maintenance Operations (New 16-02-2012)

Mariners are advised that the wind turbine maintenance works, via the vessel MS Wind, will be continuing until 31 August 2012.

For further information, please contact: email: Renewable@Centrica.com

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Navitus Bay Offshore Wind Farm – Survey Activity (*Update 04-04-2012*)

Survey

Company, Vessel & Call Sign	Area Covered				Start Timeframe & Duration	
EMU Ltd MV Shannon MLFC3 Or RV Discovery 2AEL8	1.	50°43.974'N	001°41.605'W	7	50°23.605'N 001°50.335'W	11 th April 2012 – 31 st May 2012
	2.	50°40.823'N	001°40.908'W	8	50°24.881'N 001°40.277'W	
	3.	50°39.794'N	001°45.060'W	9	50°32.985'N 001°40.785'W	
	4.	50°36.108'N	001°46.375'W	10	50°38.595'N 001°37.606'W	
	5.	50°32.039'N	001°47.223'W	11	50°40.736'N 001°39.762'W	
	6.	50°29.475'N	001°51.586'W	12	50°43.284'N 001°36.823'W	

For further information, please contact: Paul English, EMU Limited, Tel: 023 9220 5500. Email: paul.english@emulimited.com

Survey

Company, Vessel & Call Sign	Area Covered				Start Timeframe & Duration	
Fugro Survey B.V. MV Coral Wind 2EMX8	7.	50°40.446'N	001°41.863'W	16.	50°41.677'N 001°39.407'W	1 st November 2011 – 1 st November 2012
	8.	50°40.718'N	001°42.782'W	17.	50°42.138'N 001°38.319'W	
	9.	50°41.399'N	001°41.058'W	18.	50°42.018'N 001°37.756'W	
	10.	50°42.540'N	001°41.361'W	19.	50°41.159'N 001°39.104'W	
	11.	50°42.583'N	001°40.764'W	20.	50°39.562'N 001°38.170'W	
	12.	50°41.681'N	001°40.358'W	21.	50°39.686'N 001°39.148'W	
	13.	50°41.811'N	001°40.032'W	22.	50°40.736'N 001°39.762'W	
	14.	50°42.389'N	001°39.518'W	23.	50°40.823'N 001°40.908'W	
	15.	50°42.270'N	001°38.952'W			

For further information, please contact: The Project Manager, Fugro Survey BV, Tel: 0031 703111800

Deployment of Buoys

Wave Hub – Deployment of permanent Navigation Buoys (*Update 15-03-2012*)

The installation vessel Kingdom of Fife has completed navigation buoy operations at the Wave Hub site today and has departed the site.

Pre lay Survey:

A seabed survey (multi-beam bathymetry, side-scan sonar and magnetometer) will be undertaken over an 100m radius from the planned buoy locations by a separate survey vessel during the same period (vessel details to be confirmed). The following buoys will be deployed:

Buoys	Latitude	Longitude	Buoys	Latitude	Longitude
North Cardinal	50° 23.057 'N	005° 38.251 'W	Special Marks	50° 20.866 'N	005° 35.567 'W
South Cardinal	50° 20.628 'N	005° 35.038 'W	Special Marks	50° 20.700 'N	005° 37.233 'W
Special Marks	50° 22.833 'N	005° 37.767 'W	Special Marks	50° 21.765 'N	005° 37.495 'W
Special Marks	50° 22.983 'N	005° 36.100 'W	Special Marks	50° 21.920 'N	005° 35.830 'W

For further information, please contact: Colin Campbell, Marine Operations Manager, Tel: 01736 800291, email: colin.campbell@wavehub.co.uk

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Walney 1 & 2 Offshore Wind Farms – Construction Activity (*Update 11-04-2012*)

Walney Extension

The small survey vessel 'AQUADYNAMICS' is expected on site today to continue with the Benthic Sampling Survey at the proposed Walney Wind Farm Extension. 'AQUADYNAMICS' will now carry out the Beam Trawl survey and this hopefully will be completed over the coming weekend as long as weather and conditions remain favorable.

Walney 1

All 51 turbines in the Walney phase 1 have been erected, all cables buried and most scour protection around turbines has been completed. Two Dive Support Vessels 'HBC PERFORMER' and 'HBC SUPPORTER' are on site and carrying out DIVING and other operations at installed positions as required and when weather permits.

Walney 2

The Sub-Station as well as all 51 Wind Turbine Generators (WTGs) are installed with many of the Turbines operational and providing electricity to the National Grid, as other strings are energized they will be brought on line and also start providing electricity to the National Grid. Each Turbine, as well as the Sub-Station, is fitted with a solar powered temporary light Fl Y 2.5s (visibility approx. 2ml.) and these will remain in position until the Wind Farm is fully commissioned.

Rock Dumping Activities

ROCK DUMP is being carried out in areas where extended surveys have shown that some stretches of cable are still inadequately buried despite several attempts with plough, jetting etc.

This work will be carried out by the Rock Dump Vessel 'ROLLING STONE' which, due to the good weather and conditions, has now completed Rock Dump operations at the ORMONDE EXPORT CABLE and is currently in Barrow to mobilise and load for WALNEY 1 & 2.

WALNEY 1 (EXPORT CABLE)

Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
53° 59.314'N	003° 13.515'W	53° 59.320'N	003° 13.560'W	50
53° 59.352'N	003° 13.800'W	53° 59.646'N	003° 15.191'W	1630
53° 59.646'N	003° 15.191'W	53° 59.746'N	003° 15.407'W	300
54° 00.097'N	003° 16.100'W	54° 00.301'N	003° 16.526'W	600

WALNEY 2 (EXPORT CABLE)

Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
53° 54.745'N	003° 12.377'W	53° 54.752'N	003° 12.388'W	140
53° 54.752'N	003° 12.388'W	53° 54.752'N	003° 12.388'W	245
53° 55.077'N	003° 13.022'W	53° 55.129'N	003° 13.118'W	140
54° 00.804'N	003° 23.821'W	54° 00.908'N	003° 24.031'W	300
54° 01.092'N	003° 24.486'W	54° 01.155'N	003° 24.517'W	100
53° 59.152'N	003° 20.470'W	53° 59.204'N	003° 20.586'W	160
53° 59.340'N	003° 20.894'W	53° 59.398'N	003° 21.026'W	180
54° 01.586'N	003° 25.397'W	54° 01.643'N	003° 25.508'W	160
54° 03.187'N	003° 29.234'W	54° 03.217'N	003° 29.297'W	90

WALNEY 2 (Array CABLE)

Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
54° 05.492'N	003° 36.791'W	54° 05.546'N	003° 36.867'W	130
54° 05.776'N	003° 36.189'W	54° 05.827'N	003° 36.271'W	130

Export Cable Survey

The Dive Support Vessel 'HBC PERFORMER' will carry out DIVER assisted survey operations at several positions along the WALNEY 2 EXPORT CABLE ROUTE.

The positions run from the Southwest corner of the BARROW WIND FARM and across the Westerly end of Lune Deeps and onto Shell Flats, the purpose of the survey is to check the depth that the cable is buried

During this survey operation the HBC Performer, a purpose built Dive Vessel, will anchor above these positions using a four point anchor pattern. Infield Or Inter-Array Cables

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'SWIBER ELSE-MARIE' has completed the burial of the INFIELD or INTER-ARRAY CABLES as well as surveying the Mattress Lay at the BT Telephone Cable crossings and will berth in Barrow on the evening tide to de-mobilise from this project before joining the Ormonde Wind Farm to complete any cable burials there.

Site Boundary for Walney 2:	1. 54° 04.92' N 3° 32.15' W	4. 54° 06.23' N 3° 39.74' W
	2. 54° 02.23' N 3° 34.12' W	5. 54° 07.89' N 3° 37.85' W
	3. 54° 03.67' N 3° 39.71' W	

If any fishermen have any gear down on or close to the export cable route as indicated on the flyer you are advised to move it now - please contact me if you are in any doubt.

For a copy of the Kingfisher Awareness Flyers for the Walney Offshore Wind Farms, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Walney 2 Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: Walney 1 Offshore Wind Farm](#)

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

Ormonde Offshore Wind Farm – Construction Activities (Update 11-04-2012)

All of the Turbines are energised and are producing electricity to the National Grid.

Small crew and workboat vessels are employed in the transfer of technicians to work on routine maintenance and small fault corrections as and when weather permits.

Temporary lighting on each Jacket-Turbine is in place and will remain in tandem with the Wind Farm permanent navigation lighting system, as well as the Fog Horn signal, until the permanent lighting system has been passed as fully operational.

Construction

All 30 Turbines including Tower Sections, Nacelles and Blades have now been installed, most of these Turbines have now been energised and are producing electricity to the National Grid. Each erected Turbine, as well as the Sub-Station, is fitted with a solar powered temporary light FI Y 2.5s (visibility approx. 2ml.) and these lights will remain in position until the Wind Farm is fully commissioned. Small crew and workboat vessels will be engaged in a variety of tasks inside the Wind Farm including the transfer of technicians to work on energising the remaining Turbines, installation of the cable into the J-Tubes and cable burial.

These operations will continue whenever the weather and conditions permit and will at times involve DIVERS, and there will continue to be a constant movement of traffic between the Wind Farm and Barrow until all the Turbines have been energised and all the cables have been buried and the Wind Farm is fully commissioned.

Export Cable Installation

All of the INTER-ARRAY / INFIELD CABLES are now buried

All of the EXPORT CABLE is buried although a programme of remedial ROCK DUMPING at selected positions along the cable route is scheduled to start in early to mid. February. These positions of ROCK DUMPING are to be carried out on sections of the buried cable where it was found, after survey, that the cable was not sufficiently buried, a separate notice is issued in relation to this work and the vessel involved.

Export Cable – Advisory Anchor Exclusion Zone

All mariners should note that there is an advisory anchor exclusion zone that extends for 200 meters either side of the laid export power cable and you are requested to avoid anchoring in this area, this also includes anchors that are attached to static fishing gear

All vessels working at this Wind Farm site can be contacted on VHF Channels 16 & 12 for information relating to vessel movements only.

For a copy of the Kingfisher Awareness Flyer for the Ormonde Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Ormonde Offshore Wind Farm](#)

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

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Burbo Bank Offshore Wind Farm – Power Shutdown (New 09-04-2012)

A total power shutdown is planned for the BURBO BANK OFFSHORE WIND FARM.

The shutdown is scheduled to start at 08:30 on Tuesday 10th April and run until Tuesday 17th. April, this is in order to facilitate work to correct an onshore cable fault on the SPMANWEB Transmission Network. During this period all FIXED NAVIGATION and AVIATION LIGHTING will be switched off and replaced by temporary lighting.

The temporary navigation Lights will be installed on 6 turbines - specifically BB12, BB18, BB29, BB38, BB41 & BB42 – they will carry the same characteristics as the fixed lighting : Fl. Y. 5s 5M

During the lead up period to the shutdown all of the Turbines will remain operational and switched over to automatic. Small service vessels will be engaged on routine maintenance within the Wind Farm as and when required.

Any vessel that is engaged in any kind of work at this Wind Farm Site can be contacted on VHF Channels 12 and 16 for information relating to vessel movements only.

A minimum 50 meter Advisory Safety Exclusion Zone is requested around each Turbine at all times, but all mariners are requested to keep well clear of the Wind Farm Site during any period when they can see that maintenance work is being carried out.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

Gwynt y Môr Offshore Wind Farm – Construction / Safety Zone (Update 05-04-2012)

Construction

The Gwynt y Môr Offshore Wind Farm Project is located between 15km to 20km off the coast of North Wales in the Liverpool Bay area of the Irish Sea. It is adjacent to RWE Innogy's North Hoyle and Rhyl Flats offshore wind farms. The consented site covers an area of 124km². The water depth ranges from 12m to 28m LAT with a tidal range of 8.5m.

The Gwynt y Môr Offshore Wind Farm Project comprises an array of 160 WTGs, supported on foundations, and connected to offshore substation platforms by subsea array cables. The offshore substation platforms are connected via a 20km offshore export cable route to landfall and a 12km onshore export cable route to an onshore substation at St Asaph in North Wales where the Project will be connected to the National Grid at 400kV. The first stage WTG foundations will cover 92 locations with a maximum water depth of 21m. The second stage of WTG foundations will cover 68 locations with a maximum water depth of 28m.

Export Cable Survey Works

Please be advised that Export Cable Survey Works is now expected to commence on or around the 6th April 2012. The works are expected to take approx 14 days. Due to uncertainty in the actual commencement date, this notice will remain in force until 30th April 2012. A further update will be given then or upon completion. The works will be carried out by the 12m survey vessel Freja. The vessel will be operating from the beach at Pensarn along the proposed route of the export cable. The vessel will be towing survey equipment and all other traffic is advised to keep at least 1000m clear of MV Freja. VHF 16 will be monitored at all times.

Export Cable Mattress Laying works

Please be advised that Export Cable Mattress Laying Works is now expected to commence on or around the 11th April 2012. The works are expected to take approx 30 days. Due to uncertainty in the actual commencement date, this notice will remain in force until 30th May 2012. A further update will be given then or upon completion. The works will be carried out by the 54m DSV Union Beaver, and will be supported by 26m Multicat MPR2. The vessel will be operating along the proposed route of the export cable out to Gwynt-y-Mor Wind farm. The vessel will have an anchor spread ranging 500m from the Union Beaver, with divers in the water and all other traffic is advised to keep at least 1500m clear of DSV Union Beaver and MPR2. VHF 16 will be monitored at all times.

Scour Protection Works

Please be advised that the installation of the Offshore Sub Station Jackets will commence on or around the 11th April 2012. The works are expected to take until the 31st May 2012. A further update will be given if the works are extended. The works will be carried out by the Seaway Heavy Lifting Vessel "Stanislav Yudin". Stanislav Yudin will commence operations at the OSPE (Offshore Substation Platform East) and will then continue to (OSPW) Offshore Substation Platform West. The substations are identified by the termination points at the blue and orange cables on the below chart respectively. Stanislav Yudin will have an 8 point anchor spread deployed around the vessel. This could extend as far as 1200m from the vessel.

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Stanislav Yudin will be supported by the anchor handling vessels "Anglian Monarch" and "Anglian Earl". Stanislav Yudin will be supplied with the relevant components from feeder barges "UR99" and "UR108". These barges will be towed by the "Union Boxer" and the "Bremen Fighter" respectively. All vessels are requested to give all of the above vessels a wide berth due to the anchor spread within the field.

VHF 16 will be monitored at all times by the mentioned vessels

Wind Farm Perimeter

Please be advised that the demarcation of the Gwynt y Mor Offshore Wind Farm has been completed. There are 9 navigation buoys installed by the Trinity House Vessel "Galatea". All coordinates are below. At the same time, Galatea removed the "North Hoyle" North Cardinal Buoy from position 53°26.70'N 003°30.60'W.

1)	GYM S	Red Can	FI R 2.5s	53°24.900'N 003°37.080W
2)	GYM SW	Special Mark	FI Y 2.5s	53°25.870'N 003°39.600W
3)	GYM W	West Cardinal	VQ(9) 10s	53°26.832'N 003°42.129W
4)	GYM NW	West Cardinal	Q(9) 15s	53°28.303'N 003°40.772W
5)	GYM NNW	North Cardinal	Q	53°29.670'N 003°36.857W
6)	GYM N	North Cardinal	VQ	53°29.735'N 003°31.710W
7)	GYM NE	Special Mark	FI Y 2.5s	53°28.390'N 003°29.340W
8)	GYM E	East Cardinal	VQ(3) 5s	53°27.130'N 003°27.078W
9)	GYM SE	Special Mark	FI Y 2.5s	53°26.015'N 003°32.080W

Safety Zones

An application for safety zone scheme during construction, major maintenance, decommissioning periods has been sought for the Gwynt Y Môr Offshore Wind Farm.

Consent from the Secretary of State for Energy and Climate Change as set out in the Energy Act 2004 and the Electricity Regulations 2007 for a Safety Zone scheme to be placed around structures during the construction, major maintenance, decommissioning periods of the previously consented offshore renewable energy installation known as Gwynt Y Môr.

A copy of the Safety Zone scheme explaining the company's proposal in more details available upon request using the following methods: Tel: 01793 474288, Email: gemma.couzens@rwe.com, Postal Address: Auckland House, Lydiard Fields, Great Western Way, Swindon, SN5 8ZT.

Any person wishing to make representation to the Secretary of State about the application should do so in writing to the Secretary of State, Department for Energy and Climate Change, c/o the offshore renewables main box: offshore.renewables@decc.gsi.gov.uk or to the ORCU, Area A, 3rd Floor, 2 Whitehall Place, London SW1A 2HD stating the name of the proposal and nature of their representation not later than 31st January 2012 .

For a copy of the Kingfisher Awareness Flyer for the Gwynt Y Mor Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Gwynt Y Mor Offshore Wind Farm](#)

For further information, please contact: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: lee.cornwell@rwe.com

Irish Sea Offshore Wind Farm – Deployment of Buoys (Update 29-03-2012)

Mariners are advised that meteorological oceanographic (met ocean) equipment will be deployed in the Round 3 Irish Sea Zone in April 2012, weather dependent. It is requested that all vessels operating in the area be aware of the device locations.

Three pieces of equipment will be deployed at three locations, each with appropriate marking.

A wave buoy is currently deployed at the positions below. The wave buoys will exhibit FI Y (5) 20s lights with a nominal range of 3 nautical miles. The buoys will remain at locations until March 2013.

Acoustic Doppler Profilers (ADPs) will be deployed at locations below.. The ADP will have a marker buoy that exhibits FI Y (5) 20s lights with a nominal range of 3 nautical miles. In the event that it cannot be used for any reason, the ADP will be deployed at *. The ADP will remain at location until June 2012.

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Wave Buoy 53° 39.160' N 4° 10.247' W	Acoustic Doppler Profilers 53° 37.458' N 4° 18.878' W
53° 52.992' N 4° 08.164' W	53° 37.659' N 4° 17.990' W *
* Alternative position	

For further information, please contact: Simon Calden: 07825 382896 or Simon Prince: 07920 273866

Irish Sea Offshore Wind Farm – Survey Activities (New 21-03-2012)

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration
Gardline Geo Surveys Ltd Vessel: Normand Mermaid ZIUM2	53° 51.140'N 004° 40.094'W 53° 34.349'N 004° 00.172'W 53° 51.353'N 004° 32.946'W 53° 33.875'N 004° 25.752'W 53° 52.646'N 004° 27.364'W 53° 42.272'N 004° 35.930'W 53° 56.503'N 004° 20.444'W 53° 35.775'N 004° 52.754'W 53° 59.009'N 004° 15.300'W 53° 35.528'N 005° 09.659'W 54° 01.243'N 004° 11.727'W 53° 43.689'N 005° 01.604'W 54° 06.402'N 004° 04.878'W 53° 48.769'N 004° 40.030'W 54° 06.508'N 004° 00.170'W	Early April – Mid July 2012

For further information, please contact: Centrica Energy, Tel: +44(0)1753 431000 email: Ceri@centrica.com

Islay Waveriders – Scientific Deployment (Update 28-03-2012)

Partrac deployed Waverider buoys and guard buoys at the locations below. These items will remain in place for 6 months.

Site	Latitude	Longitude	Site	Latitude	Longitude
Waverider D1	55° 45.614 'N	006° 43.238 'W	Guard Buoy GB1	55° 45.847 'N	006° 43.352 'W
Waverider D1	55° 50.656 'N	006° 41.371 'W	Guard Buoy GB2	55° 50.783 'N	006° 41.524 'W
Waverider D1	55° 46.551 'N	006° 51.347 'W	Guard Buoy GB3	55° 46.706 'N	006° 51.529 'W

The Waverider buoys are 0.9 m in diameter and bright yellow in colour. They transmit a light sequence as FI Y (5) 20s from a 2m whip antenna and are each moored using a single point compliant mooring with a scope of up to 200m.

The guard buoys are 1.5 m in diameter, 3 m high, yellow, with a St Andrews cross topmark and transmit a light sequence FI (5) Y 20s

For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmckay@partrac.com

Barrow Offshore Wind Farm – Operations (Update 26-03-2012)

The small Jack-up 'ODIN' is expected to arrive on site shortly at the BARROW OFFSHORE WIND FARM to carry out a gear box change at Turbine position D3. 'ODIN' will be accompanied by two support vessels, ANDRE-B' and 'WAL', and is expected to remain on site for a period of 24 hrs. A 500 meter safety exclusion zone is requested around 'ODIN' and the support vessels at all times when on site. The only other vessels engaged on any work inside the Wind Farm at this time are small service vessels operating as and when required and depending on weather. All of the Turbines, except D3 where 'ODIN' will be jacked-up, are operational and switched to automatic.

Any vessel engaged on any kind of work at this Wind Farm can be contacted on VHF Channels 16 & 12 for information relating to vessel movements only.

If any fishermen have pots set, or are considering setting any pots, within the Wind Farm Perimeter they are advised to make sure that their gear is properly marked and weighted and is clear of any of the Turbines. They are advised to lay their gear up and down the lanes rather than across the Inter-Array or Infield Cables and are advised to use weights rather than anchors.

Any gear found to be inside the 50 meter Advisory Safety Zone will be moved to the shore by the service craft in order to stop it fouling on the J-Tubes or on the underwater fittings of the Turbine. Please contact me with the position of the gear so that I can pass this on to the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

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Exposed Sections or Cable Buried to less than 0.2M

Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
54° 00.567 'N	002° 57.333 'W	53° 58.333 'N	003° 02.383 'W	53° 57.967 'N	003° 08.183 'W
54° 00.500 'N	002° 57.467 'W	53° 58.333 'N	003° 02.533 'W	53° 58.233 'N	003° 09.483 'W
54° 00.417 'N	002° 57.617 'W	53° 57.783 'N	003° 05.050 'W	53° 58.300 'N	003° 09.783 'W
54° 00.383 'N	002° 57.683 'W	53° 57.667 'N	003° 05.783 'W	53° 58.333 'N	003° 09.933 'W
53° 58.783 'N	003° 00.533 'W	53° 57.683 'N	003° 06.067 'W	53° 58.400 'N	003° 10.217 'W
53° 58.683 'N	003° 00.783 'W	53° 57.700 'N	003° 06.500 'W	53° 58.417 'N	003° 10.333 'W
53° 58.617 'N	003° 00.950 'W	53° 57.700 'N	003° 06.617 'W	53° 58.567 'N	003° 11.033 'W
53° 58.483 'N	003° 01.300 'W	53° 57.700 'N	003° 06.717 'W	53° 58.667 'N	003° 11.500 'W
53° 58.450 'N	003° 01.483 'W	53° 57.767 'N	003° 07.200 'W	53° 58.917 'N	003° 13.267 'W
53° 58.383 'N	003° 01.817 'W	53° 57.933 'N	003° 07.983 'W		

PLEASE NOTE THESE POSITIONS OF EXPOSED EXPORT CABLE AND MARK THEM ON YOUR CHARTS

HEYSHAM LAKE / LUNE DEEP AREA

53°58.60'N	003°01.00'W	53°57.90'N	003°04.80'W
53°58.30'N	003°02.80'W	53°57.70'N	003°06.40'W

In the interests of safety mariners are requested not to anchor within at least 500 meters of the wind farm perimeter and, because there is a danger of exposed power cable on the seabed close to some of the turbine structures, fishermen are requested to observe the agreed extended safety zone of 100 meters around each turbine and the need to exercise extreme caution when operating in the vicinity of any of the wind farm turbines.

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

North Hoyle Offshore Wind Farm— Lifting Operations (New 01-03-2012)

Please be advised that Vestas Offshore UK Ltd will be carrying out maintenance operations including heavy lifting at the North Hoyle wind farm, situated off the North Wales coast.

Operations will commence on or around 2nd March 2012 and will take approximately 4 weeks to complete (subject to weather delays). Odin is a Jack-Up platform measuring 46 metres in length by 30 metres in width. It has a 7.5 metre deep hull, coloured blue and white. When jacked up the Odin will be marked and displaying lights and day symbols in accordance with an Offshore Structure. Odin will be accompanied by the tugs Wal and Andre-B

Mariners are requested to keep well clear and pass slowly, particularly when the craft is afloat or manoeuvring

For further information, please contact: John Davies, RWE Npower Renewables, Tel: 0845 0782984, email: john.davies@rwe.com

The Skerries – Seabed Frames (New 23-02-2012)

Partrac will deploy seabed frames at the following location below between 29/02/12 and 04/03/12.

53°25.050'N 004°34.877'W
 53°25.067'N 004°34.938'W
 53°25.073'N 004°35.007'W
 53°25.090'N 004°35.071'W
 53°25.108'N 004°35.132'W

The vessel Seekat C will be used (Catamaran, approx. 11m in length).

The seabed frames are constructed of stainless steel and moored with sufficient ballast to prevent any movement under wave or tidal forcing. A recovery line will be attached to the frame leading to a ground weight and acoustic release transponder system. The ADCP instrument is housed vertically within the frame, approximately 0.5m above the seabed.

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The equipment will be deployed at the locations above and there will be no surface markers. They will remain in place for 30 days.

The survey vessel will be on station for approximately 1 hour during each deployment, service and recovery visit at each of the locations. Other vessels should maintain an appropriate and safe distance when passing Seekat and should pass at the lowest possible speed to avoid vessel wash effects. A further notice will be issued with the as laid positions of the frames and ground weights.

For further information, please contact: Judy McKay, Partrac Ltd, Tel: +44(0)141 552 3903, email: jmckay@partrac.com

Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations (Update 10-02-2012)

An anchor has been lost within the Wind Farm at position: 54°44.52'N 003°42.84'W. Several unsuccessful attempts have been made to retrieve this anchor and therefore it is likely that it will remain at this position for some time. It will be charted during the Bathy Survey for the exact position but fishermen are requested to note the above position, mark it on their charts / plotters and keep clear.

Bathymetric Survey

The continuing poor weather has caused this survey to be further delayed. The small survey vessel 'FREJA' will now remain in Workington over the Christmas and New Year period and start the survey at the first available opportunity in January.

This survey is expected to last for a period of approx. 10 days (depending on weather) and is not expected to interfere with any other vessel but as highly sensitive sonar and multi beam echo sounder devices will be in operation all mariners are requested to give a wide berth to 'FREJA' when on site and if possible reduce speed when passing.

Diver Assisted Survey

The survey / maintenance programme that was being carried out by the DIVE SUPPORT vessel 'TERRAMARE 1' has now completed and 'TERRAMARE' has de-mobilised from this project. All of the Turbines are operational and switched to automatic.

A CD of the Robin Rigg layout including Inter-Array or Infield Cables as well as the Export Cable Route is now available. The disk contains fishing plotter files and is compatible with the following plotters: Litton Fish master, Sodena Turbo, Maxsea, TRAX, Transas Navi-Fish, SIS Microplot, Quodfish, TM Planner and Penta plotters.

If anybody else feels that they would like a copy or if they know of anybody who would require a copy please contact me. The data is also available for download from the Kingfisher Website with a link below.

For a copy of the Kingfisher Awareness Flyer for the Robin Rigg Offshore Wind Farm or Fishing Plotter CD, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

[Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm](#)

[Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm](#)

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

Moray Firth – Frame Deployments (New 07-02-2012)

Partrac deployed Waverider buoys and guard buoys at the locations below.

Site	Latitude	Longitude	Site	Latitude	Longitude
Position 1	55° 45.725 'N	006° 43.194 'W	Guard Buoy GB1	55° 45.847 'N	006° 43.352 'W
Position 2	55° 50.657 'N	006° 41.371 'W	Guard Buoy GB2	55° 50.787 'N	006° 41.528 'W
Position 3	55° 46.573 'N	006° 51.379 'W	Guard Buoy GB3	55° 46.706 'N	006° 51.529 'W

The vessel NLV POLE Star will be used.

The Waverider buoys are 0.9 m in diameter and bright yellow in colour. They transmit a light sequence as FI Y (5) 20s from a 2m whip antenna and are each moored using a single point compliant mooring with a scope of up to 200m.

The guard buoys are 1.5 m in diameter, 3 m high, yellow, with a St Andrews cross topmark and transmit a light sequence FI (5) Y 20s

For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmckay@partrac.com

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West of Duddon Sands Offshore Wind Farm – Survey Activity (Update 16-01-2012)

The survey vessel 'COASTAL ENTERPRISE' has now completed the Geotechnical Site Investigation of the Export Cable Routes for the proposed West Of Duddon Sands Wind Farm (WoDS).

The remaining sampling work at positions along the proposed Export Cable Routes will require the vessel to remain stationary for periods of 1-2 hours and it is requested that all passing vessels, or other vessels working in the area, keep a wide berth and if possible reduce speed when passing.

'COASTAL ENTERPRISE' will keep a listening watch on VHF Channels 16 & 12 as well as monitoring VHF Channel 14 and can be contacted for information relating to vessel movements only.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

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