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

This Bulletin, along with previous issues, can be viewed at: www.kingfishercharts.org. Alternatively you can receive the Bulletin via email, by contacting: kingfisher@seafish.co.uk

* Unless otherwise stated, all co-ordinates listed in this Bulletin refer to WGS84 datum
Brough Head Wave Farm Site— Survey Activities (New Entry 20-12-2011)
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.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
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<tr>
<td>Centrica Energy</td>
<td>59° 08.515’ N 003° 10.167’ W</td>
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<tr>
<td>Call Sign: MQAM3</td>
<td>59° 11.040’ N 003° 11.679’ W</td>
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<tr>
<td>Remote Sensor</td>
<td>59° 09.729’ N 003° 20.474’ W</td>
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<td>Call Sign: MLLR2</td>
<td>59° 09.197’ N 003° 22.961’ W</td>
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<td>Marine Sensor</td>
<td>59° 07.708’ N 003° 23.291’ W</td>
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<td>Call Sign: MLLR2</td>
<td>59° 05.604’ N 003° 24.556’ W</td>
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<td></td>
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<tr>
<td></td>
<td>59° 03.962’ N 003° 23.966’ W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>58° 58.953’ N 003° 25.436’ W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>58° 58.939’ N 003° 21.667’ W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Deployment of Buoy – Moray Offshore Renewables (Update 25-10-2011)
The Waverider which was deployed by Partrac Ltd will remain in place for a further 12 months.

Co-ordinates: 58°09.948’N 02°38.052’W

The Waverider is 0.9m in diameter and a bright yellow in colour. It transmits a light sequence as Fl Y (5)20s from its antenna and is moored using a single point compliant mooring with a scope of about 150m.

For further information, please contact: Judy McKay, Partrac Ltd, Tel +44(0)141 552 3903 email: JMcKay@Partrac.com
Inch Cape Offshore Wind Farm – Survey Activities (New 20-12-2011)
Please be advised that Canyon Offshore Limited will be conducting a Geotechnical investigation within the proposed Inch Cape Offshore Wind Farm site. The survey will consist of five bore holes with an option of a sixth. The vessel is planned to depart to site on Friday 23rd December and works will be in the order of several days (weather depending).

BH 1 56°26.651'N 002°14.488'W
BH 2 56°30.540'N 002°15.725'W
BH 3 56°28.587'N 002°12.699'W
BH 4 56°26.651'N 002°14.488'W
BH 5 56°30.540'N 002°15.725'W
BH 6 (Optional) 56°28.587'N 002°12.699'W

The ‘Stril Explorer’ (Call Sign: 2EBI9) a 76.4m DP2 Multipurpose Offshore Vessel will be used for the ROVDrill Mk2 operations to conduct the bore holes as specified.

For further information, please contact: SRV Bavenit, Tel: +47 51 406 100, Sat Phone: +873 32 73 33 610, Email: master@bavenit.com

Firth of Forth Offshore Wind Round 3 – Survey Activities (Update 13-12-2011)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
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<tbody>
<tr>
<td>Partrac Ltd</td>
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<tr>
<td>Vessel: Princess Royal</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>1. 56°31.69'N 002°34.16'W</td>
<td>15th December 2011 – 19th May 2012</td>
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<tr>
<td></td>
<td></td>
<td>2. 56°58.33'N 002°21.31'W</td>
<td></td>
</tr>
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</table>

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

European Offshore Wind Deployment – Survey Activities (New 06-12-2011)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
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<tr>
<td>SMRU Ltd</td>
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<tr>
<td>Eileen May</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100m</td>
<td>5m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>57° 24.583 N 001° 51.099 'W Shore</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>57° 23.540 N 001° 47.427 'W</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>57° 15.195 N 001° 55.747 'W</td>
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<td></td>
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<tr>
<td></td>
<td>57° 15.216 N 001° 38.590 'W</td>
<td></td>
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<tr>
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<td>57° 12.008 N 001° 38.576 'W</td>
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<tr>
<td></td>
<td>57° 11.987 N 001° 56.791 'W</td>
<td></td>
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<tr>
<td></td>
<td>57° 01.439 N 002° 01.707 'W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>57° 02.364 N 002° 07.598 'W Shore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8th December 2011 – 31th December 2011

For further information, please contact: Claire Lacey, SMRU Limited, Tel: +44(0)1334 479100, email: cl@smru.co.uk
Hornsea Offshore Wind Farm – Survey Activities (Update 21-12-2011)

Buoys
Meteorological buoys are located at locations 1, 2, 3, and 6. A directional wave rider (DWR) buoy is located at location 7a. All locations are detailed in Table 1. 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.

<table>
<thead>
<tr>
<th>Location</th>
<th>Suggested Name</th>
<th>Equipment</th>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Well Bank Flat</td>
<td>Met. buoy + AWAC</td>
<td>53° 58.200’N</td>
<td>1° 23.580’E</td>
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<tr>
<td>2</td>
<td>Inner Well Bank Rough</td>
<td>Met. buoy</td>
<td>53° 52.950’N</td>
<td>1° 59.190’E</td>
</tr>
<tr>
<td>3</td>
<td>Chiswick Field</td>
<td>Met. buoy</td>
<td>53° 54.250’N</td>
<td>2° 25.900’E</td>
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<tr>
<td>6</td>
<td>Ravenspurn Field</td>
<td>Met. buoy</td>
<td>54° 09.850’N</td>
<td>0° 49.350’E</td>
</tr>
<tr>
<td>7a</td>
<td>Schooner Field</td>
<td>DWR buoy</td>
<td>53° 53.967’N</td>
<td>1° 59.100’E</td>
</tr>
</tbody>
</table>

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.

The Potting survey due to take place in December has now been cancelled due to bad weather.

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. Further commission works on the met mast are due to commence mid December, the vessel to be used for the works is TBA.

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

Sheringham Shoal – Installation, Survey, Deployment of Buoys (Update 20-12-2011)

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)

Cable Installation
Please be advised that Jet Trenching Operations will be starting in the area designated as part of the Sheringham Shoal windfarm, Export and Infield using vessel Toisa Warrior and Survey vessel Discovery Rose. These are expected to commence from the 5th September 2011 to end of March 2012.

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) + LFl 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)

Continued over page...
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 vessel's crane, when the vessel is fully jacked out of the water.

The operation will start from 1st September 2011 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: OSG-Bridge@SHL.com.cy

Lynn Offshore Wind Farm – Maintenance Operations (New Entry 19-12-2011)

Mariners are advised that the wind turbine maintenance works at the Lynn Wind Farm site will be continuing until 31 August 2012. The activities will be undertaken by the vessel ‘MS Wind’.

For further information, please contact: Simon Prince, Tel: 07920 273866, email:sprince@dsml.co.uk

Lincks Offshore Wind Farm – Construction Activity & Survey (Update 19-12-2011)

Cable Installation

Mariners are advised to note that construction works within the Lincks site are fully underway, with the first 41 foundations and transition pieces installed.

Construction Activity

Secondary works at some of these locations will continue this week. 500m safety zones will re-apply around any structure where secondary works are underway, since diving operations are taking place. Mariners are advised to maintain a safe working distance from the Sound Prospector vessel. In the absence of any installation activity, 50m Safety Zones will exist around completed foundation structures. Temporary navigation lights (Fl Y 2.5s with 2nm range) are in place on all installed foundations.

Installation of the Transition Piece at LS71 will take place this week, followed by foundation installation at LS46, LS40 and LS39. 500m Safety Zones will exist around these foundation structures during installation, reverting to a 50m Safety Zone once the initial works are completed. Special mark and cardinal buoys remain in place along the northern, eastern and southern edge of the site to define the boundary of the Lincks OWF site.

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
2. East Cardinal (VQ (3) 5s) - 53°09.070’N 00°31.490’E
3. Special Mark (FLY 2.5s) - 53°10.970’N 00°31.500’E
4. East Cardinal (VQ (3) 5s) - 53°12.440’N 00°31.460’E
5. Special Mark (FL Y 2.5s) - 53°13.800’N 00°30.940’E
7. West Cardinal (VQ (9) 10s) - 53°14.670’N 00°27.020’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 Lincks Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: Lincks 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.)
London Array Offshore Wind Farm – Pre-Construction Works (Update 18-12-2011)
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 will install foundations at D10, C10, B12 & C12. Whilst construction is taking place at these positions a 500m safety zone is established, and vessels are to keep clear. The Wind Turbine installation barge Sea Worker is presently mobilising in the port of Esbjerg, and is scheduled to arrive in Harwich during week 51. The WTG installation sequence to be confirmed.

The array cable installation vessel ‘Jan Steen’. Off loading cable before sailing to Hartlepool 18th Dec subject to weather. Export cable installation vessel Stemat Spirit has completed laying of the first export cable from the Eastern Swale to offshore Substation #1, today. Stemat Spirit will head for Sheerness before returning to site to recover plough. She will then return to Norway for loading of second export cable. The Stemat Spirit has been assisted by the vessels OMS Pollux, MPR 2, Yvonne W and the Coastal Vanguard. The OMS Pollux will be engaged in diving operations at the Sub Station for the second end pull of the export cable, assisted by the MPR2 and Yvonne W. At the cable crossings of the Kentish Flats Wind farm and the Britned cables, the cable has been surface laid.

The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britned cable are guarded by guard vessel "Our Pride". Construction site guard vessel duties will be covered by the Mary Ann 1.

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

Knock Deep (North) - 51°36.960’N 01º30.310’E (Fl (5) Y 20s 2nm)  |  Knock Deep (South) - 51°35.000’N 01º29.930’E (Fl (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

Greater Gabbard Offshore Wind Farm – Installation Activities (Update 08-12-2011)

Export Cable
The third and final export cable is now due to be installed shortly (subject to any weather delays). The cable will be laid using the cable lay barge ASV Pioneer and will be attended by 3 support tugs. The cable barge will be using a minimum 3 point anchor mooring arrangement which will extend up to 500m from the barge.

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 from the 6th November 2011(weather depending) and will be trenching in inter array cables.
- Exposed cable ends exist on all Turbine locations/Transition pieces where array cabling has been installed (see attached chart denoting installed cabling). These exposed ends are located between the Turbine Locations and up to 150 metres from them. Many of these cables are now live.
...continued from previous page

- Trenching and Diving Operations
- 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

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.

Inner Dowsing Offshore Wind Farm – Maintenance (Update 07-12-2011)

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, and also details which of the Exclusion Zones previously notified in relation to these works have been removed. This notification replaces the equivalent maintenance notification issued in August 2011 for the period from 3 September 2011.

Activity: Wind Turbine Maintenance Works: Planned start date: 17 December 2011 Approx. end date: 17 February 2012

Vessel Name: MS Wind

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

Humber Gateway Offshore Wind Farm – Geotechnical Survey (Update 11-11-2011)

Located 8km off the Holderness coast of East Yorkshire, near the Humber Estuary, the Humber Gateway Offshore Wind Farm will comprise of up to 77 wind turbines of 3MW, for a total capacity up to 230MW. Existing offshore site investigation works to acquire geotechnical information for the design of the wind turbine foundations are in the process of being carried out by GeoSea on their self-elevating platform ‘Vagrant’ which is supported by an anchor handling tug ‘Dutch Pearl’ and by the survey vessel Flatholm. Details of these work-scope were detailed in the Kingfisher Bulletins Issues 16-21/2011.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.On MV Chartwell MHGVS</td>
<td>14th Nov 2011 – 21st Nov 2011</td>
</tr>
</tbody>
</table>

The geotechnical surveys will be undertaken within the following boundary, in water depths ranging from 14 to 21m LAT:

1. 53°40.107’N 000°14.809’E
2. 53°41.035’N 000°19.978’E
3. 53°38.021’N 000°19.882’E
4. 53°35.830’N 000°16.893’E
5. 53°35.280’N 000°16.197’E
6. 53°36.784’N 000°16.277’E

The base-case field works will comprise 15 No cone penetration tests to 35m below seabed. In addition to the base case work scope there may be a requirement to carry out additional cone penetration tests and sampling boreholes to depths up to 50m below seabed level.

For further information, please contact: Michael Cowie, Canyon Offshore Tel: +44 1224 351978.
Dogger Bank Creyke Beck Wind Farm – Consultation / Survey (New 21-11-2011)

Consultation

Forewind would like to invite those with an interest in the Dogger Bank Creyke Beck offshore wind farm development to attend community consultation events and provide their feedback on the proposals and site selection process to date. Members of the Forewind team will be available at the events to discuss the proposals.

The first round of public exhibitions on Dogger Bank Creyke Beck will be held in various locations in the East Riding of Yorkshire from 5th to 10th December 2011. For further information and to view consultation documents please visit www.forewind.co.uk or visit your local library.

Comments must be received by Forewind by Friday 20th January 2012 to ensure that they are considered.

For further information, please contact: Nikki Smith, Forewind Ltd, Tel: +44(0)7818 597850, email: nikki.smith@forewind.co.uk
Navitus Bay Offshore Wind Farm – Survey Activity (New 09-12-2011)

<table>
<thead>
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<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
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<tbody>
<tr>
<td>Titan Environmental Surveys Ltd</td>
<td>A - Seabed frame, ground line, Clump weight and Surface Marker Buoy 50°33.197'N 01°43.144'W</td>
<td>1st November 2011 – 1st November 2012</td>
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<tr>
<td></td>
<td>B - Seabed frame, ground line, Clump Weight, no Surface Buoy 50°30.889'N 01°44.170'W</td>
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</tr>
<tr>
<td></td>
<td>C - Seabed frame, ground line, Clump Weight, no Surface Buoy 50°28.421'N 01°45.823'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D - Seabed frame, ground line, Clump weight and Surface Marker Buoy 50°28.020'N 01°48.594'W</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Rob Millar, Titan Environmental Survey Ltd, Tel: +44(0)1656 673673

<table>
<thead>
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<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
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</thead>
<tbody>
<tr>
<td>Fugro Survey B.V. MV Coral Wind</td>
<td>1. 50°40.446'N 001°41.863'W</td>
<td>10th December 2011 – For 2 weeks</td>
</tr>
<tr>
<td></td>
<td>2. 50°40.716'N 001°42.782'W</td>
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<td>3. 50°41.399'N 001°41.058'W</td>
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<td>4. 50°42.540'N 001°41.361'W</td>
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<td>5. 50°42.583'N 001°40.764'W</td>
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<td>6. 50°42.681'N 001°40.358'W</td>
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<td>7. 50°41.811'N 001°40.032'W</td>
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<td>8. 50°42.389'N 001°39.518'W</td>
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<td>9. 50°42.270'N 001°38.952'W</td>
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<td>10. 50°41.677'N 001°39.407'W</td>
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<td>11. 50°42.158'N 001°38.319'W</td>
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<td>12. 50°42.018'N 001°37.756'W</td>
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<td>13. 50°41.159'N 001°39.104'W</td>
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<td></td>
<td>14. 50°39.562'N 001°38.170'W</td>
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<td>15. 50°39.686'N 001°39.148'W</td>
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<td>16. 50°40.736'N 001°39.762'W</td>
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<tr>
<td></td>
<td>17. 50°40.623'N 001°40.908'W</td>
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</tbody>
</table>

For further information, please contact: The Project Manager, Fugro Survey BV, Tel: 0031 703111800
Ormonde Offshore Wind Farm – Construction Activities (Update 20-12-2011)

All mariners should note that although the continuing poor weather is causing delays and disruption to all work and sailing schedules this is still a construction site and unless you have specific business or that circumstances relating to your safety make it necessary to transit the site you are advised to keep well clear and keep outside of the buoyed area until the Wind Farm is fully constructed and commissioned and you have been notified.

Construction

All 30 Turbines including Tower Sections, Nacelles and Blades have now been installed. Each erected Turbine, as well as the Sub-Station, is fitted with a solar powered temporary light Fl Y 2.5s (visibility approx. 2ml.) and these lights will remain in position until the Wind Farm is fully commissioned.

Most of these Turbines have now been energised with several producing electricity to the National Grid, progress is being severely hampered by the poor weather and conditions but whenever possible (dependant on weather) small vessels will engaged in a variety of tasks inside the Wind Farm including the transfer of technicians to work on energizing the remaining Turbines, installation of the cable into the J-Tubes and cable burial.

These operations will continue over the Christmas and New Year period 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 energized and all the cables have been buried and the Wind Farm is fully commissioned.

Export Cable Installation

It should be noted that there is the possibility of EXPOSED CABLE on the seabed between the Turbine positions within the Wind Farm perimeter until you have been officially informed that all the cables have been safely connected and buried.

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

Walney 1 & 2 Offshore Wind Farms – Construction Activity (Update 19-12-2011)

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.

Further Rock Dumping will be carried out at selected Turbine positions during January by the Rock Dump Vessel ‘ROLLING STONE’.

Walney 2

The Sub-Station as well as all 51 Wind Turbine Generators (WTGs) are installed. 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.

Export Cable Survey

The survey vessel ‘COASTAL ENTERPRISE’ has arrived in Barrow to mobilise and as soon as the weather improves will complete the remaining part of the survey of the WALNEY 2 EXPORT CABLE, this is approx. one fine days work. ‘COASTAL ENTERPRISE’ will then carry out a Geotechnical Survey along the Export Cable Route for the West Of Duddon Sands Wind Farm.

Infield Or Inter-Array Cables

‘SWIBER ELSE-MARIE’ will continue with the burial of the INFIELD or INTER-ARRAY CABLES as well as surveying the Mattress Lay at the BT Telephone Cable crossings as weather and conditions allow. It should be noted that there will be EXPOSED CABLE on the seabed between the Turbine positions within the Wind Farm perimeter from now until you have been informed that all the cables have been safely buried.

Continued over page...
Site Boundary for Walney 2:

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

Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations (Update 19-12-2011)

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 Bathory 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, Quadfish, 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

West of Duddon Sands Offshore Wind Farm – Survey Activity (Update 16-12-2011)

The replacement survey vessel ‘COASTAL ENTERPRISE’ (39 meters) which will carry out the Geotechnical Site Investigation Of The Export Cable Routes for the proposed West Of Duddon Sands Wind Farm is expected to arrive in Barrow today after being delayed by weather.

Continued over page...
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‘COASTAL ENTERPRISE’ will spend 2/3 days mobilising and will then first complete the Walney 2 Export Cable Survey (approx. 1 day’s work) before starting the West Of Duddon Sands Cable Survey (WoDS).

The (WoDS) survey is expected to last for approx. 4 weeks, again depending on weather, and will involve seabed samplings, PCPT and Vibrocores, at 30 or more locations along the 4 alternative export cable routes.

While sampling the vessel will be required 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.

During survey ‘COASTAL ENTERPRISE’ will operate from Barrow or Heysham and 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

Rhyl Offshore Wind Farm — Development Area (New 06-12-2011)

Centrica Energy Upstream are returning to their Rhyl Development area to perform one geotechnical borehole over each of their Rhyl and Whitehaven well locations:

113/27b-K Whitehaven 54° 03.635 ‘N  003° 42.330 ‘W
113/27b-L Rhyl Development  54° 04.455 ‘N  003° 40.482 ‘W

The survey vessel is Gardline’s M/V ‘OCEAN DISCOVERY’ (spec sheet attached). She is currently expected to mobilise in Aberdeen on Wednesday 7th December with an ETA in the EIS of Saturday 10th Dec.

The boreholes are required to establish soil conditions for jack-up drilling rig emplacement at the planned well locations. The ‘OCEAN DISCOVERY’ will not be required to be within, or near the boundary of the Walney 1 & 2 Wind Farm.

Unlike the previous survey, where the vessel was sailing up and down run lines with towed equipment, this geotechnical vessel will be stationed over the well locations (by DP1 and 4 point mooring, length~200m).

‘OCEAN DISCOVERY’ will maintain a listening watch on VHF Channels 16 and 12, there will be two client representatives onboard and they can be contacted for information relating to the vessels movements only

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

Irish Sea Offshore Wind Farm — Deployment of Buoys (Update 06-12-2011)

Metocean equipment is currently deployed at locations 1, 8, 12 & 13 in the Irish Sea Zone. All equipment is marked with surface marker buoys with compliant flashing lights.

The following activities will be occurring (Subject to weather):

• Removal of ADP from Location 8 & 13.
• Deploy ADPs at location 7 & 9.
• Due to weather, Centrica has been unable to redeploy equipment as per the recent NTM for November.

1. 53°39.596’N 004°52.976’W 9. 53°44.600’N 004°08.600’W
2. 53°37.040’N 004°03.040’W 10. 53°49.735’N 004°08.061’W
3. 53°38.787’N 004°11.390’W 12. 53°53.166’N 004°04.786’W
4. 53°40.057’N 004°00.000’W 13. 53°53.166’N 004°04.786’W

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

Gwynt y Môr Offshore Wind Farm — Construction / Safety Zone (Update 22-11-2011)

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.

Continued over page...
The Gwynt y Môr Offshore Wind Farm Project comprises an array of 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 site will be made up of 160 WTGs, each with a rated capacity of 3.6MW and a rotor diameter of 107m. The turbine hub height will be 84.4m LAT and the tip height 137.9m LAT. The first stage of WTG foundations will be steel monopiles up to 6m diameter. The first stage WTG foundations will cover 92 locations with a maximum water depth of 21m LAT. The second stage of WTG foundations will cover 68 locations with a maximum water depth of 28m LAT. The concept for the second stage WTG foundations has not yet been fixed, however, the base case assumes steel monopiles. Transition pieces (TPs) will be used to connect the WTG tower to the foundation by means of a grouted joint or a flanged connection.

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   Fl R 2.5s   53°24.900'N 003°37.080W
2) GYM SW  Special Mark Fl 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 Fl 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 Fl 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 further information, please contact: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: lee.cornwell@rwe.com

**Barrow Offshore Wind Farm – Operations (Update 22-11-2011)**

All of the Turbines Barrow Offshore Wind Farm are operational and switched to automatic. The only vessels engaged on any work inside the Wind Farm at this time are small service vessels operating as and when required, depending on weather. 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.
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°58.30'N 003°02.80'W
53°57.90'N 003°04.80'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

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**Deployment – Waverider Buoys / Guard Buoys (New 07-11-2011)**

Please be advised that Partrac will deploy Waverider Buoys/ guard buoys at the locations below between 01/12/11.

Deployment Position 1: 55°45.725'N 006°43.194'W
Deployment Position 2: 55°50.657'N 006°41.371'W
Deployment Position 3: 55°46.573'N 006°51.379'W
Guard Buoy 1: 55°45.847'N 006°43.352'W
Guard Buoy 2: 55°50.787'N 006°41.528'W
Guard Buoy 3: 55°46.706'N 006°51.529'W

The vessel Margaret Sinclair will be used. 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. The guard buoys are 1.5 m in diameter, 3 m high, yellow, with a St Andrews cross topmark and transmit a light sequence Fl (5) Y 20s.

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

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**Burbo Bank Offshore Wind Farm – Maintenance / Survey Activity (Update 15-08-2011)**

All of the Turbines at the Burbo Bank Wind Farm are operational and switched over to automatic. Small service vessels will be engaged on routine maintenance within the Wind Farm as and when required.

If anybody requires a copy of the Kingfisher ‘Flyer’ which shows the Wind Farm position, Turbine locations, Export and Infield or Inter-Array cable routes and Cardinal Buoy positions please contact me.

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.

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 advisory safety zone of 50 meters around each turbine and the need to exercise extreme caution when operating in the vicinity of any of the wind farm turbines.

If any fishermen 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.

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