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
Kettla Ness, West Burra, Shetland — Wave buoy lost (New 28-03-2012)

Please be aware that a waverider buoy has been lost off the coast of Kettla Ness, West Burra, Shetland. The waverider is spherical, yellow and 0.7m in diameter.

The buoy was last seen at: 60° 02.802’ N 001° 25.000’ W

A second buoy remains deployed at: 59° 58.560’ N 001° 26.500’ W

If located please contact the NAFC marine centre of Aegir wave power on Tel: 0131 5612555 email: enquiries@aegirwave.com

Cantick Head (Orkney) — Waverider Deployments (Update 28-05-2012)

Partrac will deploy four bottom-mounted ADCPs (BMADCPs) at the locations below between 29/05/12 to 01/06/12. These will remain in place for 30 days.

Please note there will be no surface markers at these locations.

<table>
<thead>
<tr>
<th>Station</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST015</td>
<td>58° 45.672’ N</td>
<td>003° 14.685’ W</td>
</tr>
<tr>
<td>ST019</td>
<td>58° 45.278’ N</td>
<td>003° 14.517’ W</td>
</tr>
<tr>
<td>ST022</td>
<td>58° 45.319’ N</td>
<td>003° 17.164’ W</td>
</tr>
<tr>
<td>ST023</td>
<td>58° 45.790’ N</td>
<td>003° 17.438’ W</td>
</tr>
</tbody>
</table>

The vessel MV Challenge operated by Leask Marine will be used.

Each frame is approx. 2 m in diameter, 0.7m high, hexagonally shaped and moored with sufficient ballast to prevent any movement under wave or tidal forcing. A recovery line is attached to the frame leading to a ground weight and acoustic release transponder system. Avoidance to a range of 500m is requested.

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

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

Partrac deployed two Waverider buoys

<table>
<thead>
<tr>
<th>Site</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waverider 1</td>
<td>59° 11.19’ N</td>
<td>003° 16.02’ W</td>
</tr>
<tr>
<td>Waverider 2</td>
<td>59° 14.58’ N</td>
<td>003° 17.03’ W</td>
</tr>
</tbody>
</table>

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

They will transmit a light sequence as Fl 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
### Dogger Bank Offshore Wind Farm – Survey Activities (New 31-05-2012)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guardline Geo Survey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MV Titan Endeavour</td>
<td>54° 36.451'N 001° 02.414'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 43.091'N 000° 48.556'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 42.400'N 000° 47.915'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 36.509'N 001° 01.441'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 38.118'N 000° 38.315'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 37.252'N 000° 38.223'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 35.792'N 001° 00.720'W</td>
<td>June 2012 – July 2012</td>
</tr>
<tr>
<td></td>
<td>54° 38.118'N 000° 38.315'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 37.252'N 000° 38.223'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 35.792'N 001° 00.720'W</td>
<td></td>
</tr>
<tr>
<td>Tridens 1</td>
<td>54° 49.184'N 000° 24.327'W</td>
<td>25th May 2012 – 18th July 2012</td>
</tr>
<tr>
<td>PIA</td>
<td>55° 04.451'N 001° 23.113'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 51.977'N 001° 19.172'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 42.355'N 000° 08.682'W</td>
<td></td>
</tr>
<tr>
<td>MV Ivero</td>
<td>54° 38.715'N 000° 59.475'W</td>
<td>30th May 2012 – 10th July 2012</td>
</tr>
<tr>
<td>PCKA</td>
<td>55° 04.451'N 001° 23.113'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 51.977'N 001° 19.172'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 36.709'N 000° 52.537'W</td>
<td></td>
</tr>
<tr>
<td>CEO</td>
<td>55° 06.135'N 001° 51.894'E</td>
<td>22nd May 2012 – 19th June 2012</td>
</tr>
<tr>
<td>Blue Alpha</td>
<td>55° 11.819'N 003° 07.871'E</td>
<td></td>
</tr>
<tr>
<td>OXUZ2</td>
<td>54° 57.291'N 003° 01.912'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 57.658'N 002° 29.117'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>54° 53.782'N 002° 22.531'E</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Simon Franey, Forewind Ltd, Tel: 07818 598 066, email: simon.franey@forewind.co.uk

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

Mariners are advised that the MV 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 the 2012.

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

Mariners 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

### Teesside Offshore Wind Farm – Activities (Update 02-05-2012)

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 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

The East Cardinal Buoy is not working correctly in the following location: Cardinal Buoy East: 55°38.38’N 001°03.87’W

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
The National Grid is helping to develop solutions to reduce the carbon emissions from power stations and industrial plants in the Yorkshire and Humber region. As part of this they are proposing to construct a pipeline for transporting carbon dioxide to support the development of carbon capture, transportation and storage (CCS) technology in the Yorkshire and Humber region.

The project would involve transporting carbon dioxide, captured from the proposed Don Valley Power Project at Stainforth, via a pipeline to a permanent storage site beneath the North Sea.

The National Grid are launching the next stage of public consultation for local communities to find out more and give us their views. These will take place during June 2012 and are in seven locations throughout the proposed pipeline route.

For further information, please visit www.ccshumber.co.uk or contact Email: nationalgrid@ccshumber.co.uk, Tel: 0800 954 9517

### Construction of Pipeline – *Don Valley (Sheffield) into the North Sea*

The National Grid is helping to develop solutions to reduce the carbon emissions from power stations and industrial plants in the Yorkshire and Humber region. As part of this they are proposing to construct a pipeline for transporting carbon dioxide to support the development of carbon capture, transportation and storage (CCS) technology in the Yorkshire and Humber region.

The project would involve transporting carbon dioxide, captured from the proposed Don Valley Power Project at Stainforth, via a pipeline to a permanent storage site beneath the North Sea.

The National Grid are launching the next stage of public consultation for local communities to find out more and give us their views. These will take place during June 2012 and are in seven locations throughout the proposed pipeline route.

For further information, please visit www.ccshumber.co.uk or contact Email: nationalgrid@ccshumber.co.uk, Tel: 0800 954 9517

### Hornsea Offshore Wind Farm – Survey Activities (Update 06-06-2012)

#### 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 cables at the seabed and a steel riser line above 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. The meteorological buoys at Chiswick Field and Ravenspurn Field have been decommissioned. The attendance of metocean equipment in the Hornsea Zone is now not scheduled until September; however, an unscheduled attendance may be made during June.

### 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 benthic ecology survey is to be undertaken for Subzone 2 in July, onboard the survey vessel MV Shannon. A benthic grab sampler, 2 metre beam trawl and drop down video system will be deployed at selected sites. The grab sampler will be deployed directly to the seabed from the stern of the vessel. The 2m beam trawl will be deployed from the stern with trawling undertaken for a distance of up to 500m at selected sites. The video system will be used to collect seabed video footage along a transect extending up to approximately 70m either side of the survey site The vessel will be operating on a 24 hour basis.

A geophysical vessel will carry out a geophysical survey along the cable route. This survey will use hull mounted acoustic equipment and towed acoustic equipment, which will be towed no more than 300m behind the vessel. The vessel will be operating on a 24 hour basis and will have a Fisheries Liaison Officer on board throughout the survey operations. The survey could take up to two months and throughout survey operations, other vessels are to maintain a wide berth of at least 500m. The dates for this survey are to be confirmed, but likely to commence in Mid-June at the earliest.

A geotechnical investigation of the site is planned to take place within Subzone 1 and Subzone 2. The current proposed works includes Seabed CPTs, continuous sampling boreholes and continuous downhole CPT to 80m at some locations and to 50m at others. The work will commence with the drill ship Markab (call sign: HO 2743) carrying out downhole CPTs at each location starting around 12 June. The Atlantic Surveyor (call sign: A8 AE9) will arrive in early July to carry out Seabed CPTs. Finally, the Normand Mermaid (call sign: ZIUM2) will complete the sampling boreholes starting in mid July.

PLEASE NOTE: 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:

**Continued over page...**
Continued from previous page

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

Lincoffs Offshore Wind Farm — Construction Activity & Survey (Update 05-06-2012)

Cable Installation
Mariners are advised to note that construction works within the Lincoffs site are fully underway, with 75 of 75 foundations installed. Of these, four (4) locations have monopiles only installed (no Transition Piece).

Construction Activity
Additional piling and installation of Transition Pieces will take place at LS75, LS60, LS58 and via the JB114 at LS66 and LS67. 500m Safety Zones will exist around these foundation structures during installation, reverting to a 50m Safety Zone once the initial works are completed. Drilling may also potentially take place at LS54 this week. 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 (Fl 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 Lincoffs OWF site

500m Safety Zones

50m Safety Zones

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 (Fl Y 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°08.450’N 00°28.050’E

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

Kingfisher Awareness Flyer: Lincoffs 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 — Construction Works (Update 03-06-2012)

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 consists 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 Clive 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.

Continued over page...
…continued from previous page

**Work Schedule**

Foundation installation vessel MPI Adventure installing F01. Returning to Vlissingen to load E08, E03 and K14. Return to site.

Whilst construction is taking place at this position a 500m safety zone is established, and vessels are to keep clear.

The Wind Turbine installation jack up Sea Worker and assist tugs Sea Alpha, Sea Echo, at K18 installing. Followed by M19 and J18. 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 in Esbjerg loading K16, L16, M16, I06, I05 and J06. Return to site. Whilst construction is taking place, a 500m safety zone is established, and vessels are to keep clear.

The Array cable installation vessel Stemat Oslo and assist tugs Sea Charlie and Maggie M continue installing I20-H20, then E14-F14. 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 Strom and Odin continue installing SS1-B16, then B15-D16 array cables. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear.

The Cable vessel CS Responder has commenced export cable operations within the London Array construction site. Whilst construction is taking place, a 500m safety zone is established, and vessels are to keep clear.

The multiple vessels Ocean Dragon assisted by Magellan Echo, and the Crew Transfer vessel Dalby Humber will carry out rectification works infield during the week involving diving operation during which a 500m safety zone is established and vessels are to keep clear.

The Array cable installation Ship Normand Flower will continue loading up to 17 cables in Sheerness, before proceeding to site. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear.

The Export Cable laying vessel Stemat Spirit on route from Norway. ETA Margate roads 6th or 7th. Commence cable laying operations. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear.

Array Cable burial vessel Nico mobilizing in Ramsgate.

The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britned cable, are guarded by the guard vessel “Sorrento”.

The vessel Coastal Worker and Sara Maatje 6 off site for 2 weeks for maintenance. The cable pull-in pontoons Willtango and Willcarly will continue at the Swale.

The vessel Coastal Vanguard Pre Lay Grapnel Run works for infield.

The vessel ‘Sea Weasel’ will be undertaking Marine Mammal Observation duties, prior to and during piling operations.

Construction site guard vessel duties will be covered by the Mary Ann 1.

Crew boats Marian Array, Smeaton Array, Ellida Array, Convay Bay, Towyn Bay, Caemaron Bay, Svend T, MPI Rucio, Cwind Alliance, Cwind Athena, Cwind Asherah, MCS Maestro, Transporter, Distributor, Voyager, Bayard 1, Bayard 2, Bayard 3, Bayard 4, Windcat 4, Windcat 6, Windcat 7, Gardian 1, Gardian 7, Windspeed 4, Dalby Humber, Dalby Tees, Dalby Esk, Ocean Wind 4 and Cardinal P will take offshore technicians to the installed foundations and construction vessels, and perform personnel transfer duties.

The Hotel ships Wind Ambition and Sea Discoverer are situated to the NE and SW of the construction site respectively and act as accommodation for offshore technicians working on foundations and WTG’s.

The vessel ‘Waterfall’ to undertake site survey work.

**Installations**

91 Foundation monopiles 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 01°30.310’E (Fl (5) Y 20s 2nm) | Knock Deep (South) - 51°35.000’N 01°29.930’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*

---

**Lynn and Inner Dowsing Offshore Wind Farm—Foundation Work (Update 29-05-2012)**

Mariners are advised that external turbine diving inspections will now be taking place within the Inner Dowsing wind farm site from 9th June 2012. This Notice to Mariners supersedes the equivalent notice issued on 18th May 2012. It updates the start date of external diving activities within the Inner Dowsing site, and provides details of the updated diving support vessel. This Notice provides details of the Exclusion Zones around the wind turbines within the Inner Dowsing site where diving inspections are taking place. The Lynn site Construction Exclusion Zone remains in place.

*Continued over page...*
Activity: Diving Inspections
Planned start date: 9 June 2012
Approximate end date: 6 July 2012
Vessel Name: MPI Cardenio

The location and coordinates of the two anchorage areas for the vessel "European Seaway" as follows:

<table>
<thead>
<tr>
<th>Anchorage Area 1</th>
<th>Anchorage Area 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>53°16.726'N 00°30.576'E</td>
<td>53°11.912'N 00°34.772'E</td>
</tr>
<tr>
<td>53°16.600'N 00°31.430'E</td>
<td>53°11.549'E 00°34.841'E</td>
</tr>
<tr>
<td>53°16.295'N 00°31.305'E</td>
<td>53°10.645'N 00°34.870'E</td>
</tr>
</tbody>
</table>

For the avoidance of doubt, the Lynn Offshore Wind Farm Construction Exclusion Zone, and the recently advised Inner Dowsing Offshore Wind Farm Exclusion Zones remain in place.

For further information, please contact: Simon Prince, Tel: 07920 273866  email: Renewables@Centrica.com


During Survey & Jet Trenching Operations the wind-farm site is temporarily marked by four cardinal buoys (N, S, E and W) and four pillar buoys (SE, SW, NE and NW) at the following 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 )

Pillar buoys (Fl Y 2.5 sec light): - 53°10’735N 01°04’249E
53°09’095N 01°11’123E
53°05’530N 01°13’443E
53°07’179N 01°06’569E

All vessels are advised to keep clear of the windfarm construction area, marked by the four cardinal buoys, during the construction period. And the exclusion zone area from Weybourne beach out to the wind-farm.

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

Inner Dowsing Offshore Wind Farm – Maintenance (Update 14-05-2012)

Mariners are advised that a replacement wave buoy is being deployed within the Inner Dowsing wind farm site, as the previous wave buoy was faulty. This wave buoy was not deployed during the previous NTM period due to poor weather opportunities.

A replacement wave rider buoy is being deployed by Vessel: Windcat 14 between 30th April 2012 and 15th June 2012 at the following position:

53°11.78’N 000°26.78’E

For further information, please contact: Simon Prince, Tel: 07920 273866  email: Renewables@Centrica.com

Gunfleet Sands Offshore Wind Farm – Exposed Sections (Update 22-05-2012)

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

<table>
<thead>
<tr>
<th></th>
<th>Start</th>
<th>Centre</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>51°44.593’N 001°13.455’E</td>
<td>52°16.941’N 001°12.169’E</td>
<td>51°44.587’N 001°13.460’E</td>
</tr>
</tbody>
</table>

Continued over page...
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

Gunfleet Offshore Wind – Survey Campaign (New 22-05-2012)
Dong Energy Gunfleet Sands Demo (UK) Ltd will commence a geotechnical survey campaign on the area in the Thames Estuary for the intended Gunfleet Sands Demonstration Offshore Wind Project and the export cable routes from the offshore wind turbines to shore.


<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dong Energy Gunfleet Sands Demo (UK) Ltd Haven Seafort Haven Supporter</td>
<td>51°46.843'N 1°08.757'E 51°46.977'N 1°08.647'E 51°46.625'N 1°08.780'E 51°44.777'N 1°09.210'E 51°45.001'N 1°09.092'E 51°45.333'N 1°09.077'E 51°45.568'N 1°09.066'E</td>
<td>51°45.890'N 1°09.055'E 51°46.050'N 1°09.048'E 51°42.321'N 1°11.621'E 51°43.037'N 1°10.775'E 51°43.496'N 1°09.992'E 51°44.002'N 1°09.700'E 51°44.534'N 1°09.520'E</td>
<td>6th June 2012 For 20 Days</td>
</tr>
</tbody>
</table>

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

Lynn Offshore Wind Farm – Cable Burial Works (Update 04-05-2012)
Mariners are advised of continuation of further cable burial work continuing within the Lynn Offshore Wind Farm site. This notice extends the notice issued in April regarding these works.

Activity: Cable Burial Works
Planned start date: 6th May 2012
Approximate end date: 31st May 2012
Vessel: CLV Sia

Further cable burial work will be taking place within the Lynn Wind Farm site, which remains subject to an exclusion zone. The work will be carried out with a Remote Operated Vehicle (ROV). All works will take place within the existing Lynn Construction Exclusion Zone.

53°09.117’N 0°25.317’E 53°09.117’N 0°28.191’E 53°08.851’N 0°28.203’E 53°08.541’N 0°28.858’E 53°08.402’N 0°26.287’E 53°07.233’N 0°28.341’E

The Lynn Offshore Wind Farm construction exclusion zone under the provisions of the Transport and Works Act (Statutory Instrument No. 2829) remains in place. Any person who, without reasonable excuse navigates a vessel within an area extending 500 metres from any part of the Lynn wind farm shall be guilty of an offence. This exclusion zone for the Lynn Offshore Wind Farm project shall not apply to a person navigating a vessel for the purpose of, or in connection with, the construction, maintenance or operation of the authorised works.

For further information, please contact: Simon Prince, Tel: 07920 273866 email: Renewables@Centrica.com

East Anglia Offshore Wind – Geophysical Survey (New 30-04-2012)
Mariners are advised that a Geophysical Survey Contractor (contractor yet to be appointed) The survey will involve towing submerged survey equipment along tracks within the area detailed below and may involve two independent survey vessels (one inshore and one offshore). Survey operations will be carried out on a 24 hour basis.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
</table>

For further information, please contact: Martin Whyte, East Anglia Offshore Wind Ltd, Tel: (0) 141 6140424 email: Martin.whyte@scottishpower.com
Westermost Rough Offshore Wind Farm – Deployments (Update 16-04-2012)

Deployment of two wave buoys and four guard buoys at the Westermost Rough offshore wind farm zone. Deployment works have now been completed and the buoys will remain on site for a planned duration of 10 years.

We kindly request a 250 metre clearance distance to be given at each of the wave buoy deployment site

1. Wave buoy WMR1  53°50.261’N 000°09.656’E
2. WMR1 marker buoy 1  53°50.261’N 000°09.577’E
3. WMR1 marker buoy 2  53°50.261’N 000°09.735’E
4. Wave buoy WMR2  53°48.292’N 000°07.364’E
5. WMR2 marker buoy 1  53°48.292’N 000°07.279’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 252307, 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

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°06.084’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.
Isle of Wight – Tidal Survey (New 21-05-2012)

Survey

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGS Wessex Explorer 2WWE</td>
<td>50° 31.400’N 001° 24.800’W</td>
<td>4th June 2012 – 8th June 2012</td>
</tr>
<tr>
<td></td>
<td>50° 34.000’N 001° 14.200’W</td>
<td>8th June 2012</td>
</tr>
</tbody>
</table>

For further information, please contact: Stephen Hayes, EGS, Tel: +44(0)1420 489329, email: shayes@egssurvey.co.uk

Navitus Bay Offshore Wind Farm – Survey Activity (Update 08-05-2012)

Survey

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMU Ltd MV Lauren Kate</td>
<td>50°43.355’N 001°39.300’W</td>
<td>9th May 2012 – 24th June 2012 For 4 Days</td>
</tr>
<tr>
<td></td>
<td>50°42.440’N 001°40.119’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°40.778’N 001°41.540’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°39.968’N 001°42.320’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°38.710’N 001°43.100’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°37.619’N 001°43.900’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°36.245’N 001°44.500’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°34.660’N 001°45.200’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°32.060’N 001°46.800’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50°29.520’N 001°48.400’W</td>
<td></td>
</tr>
</tbody>
</table>

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

Deployment of Buoys

Wave Hub – Deployment of permanent Navigation Buoys (Update 08-05-2012)

Please be advised that the recent maintenance work on the Wave Hub navigation buoys was completed on 6th May and all buoys are now lit and fully operational in their original charted positions as follows:

<table>
<thead>
<tr>
<th>Buoys</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Buoys</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Cardinal</td>
<td>50° 23.060’N</td>
<td>005° 38.240’W</td>
<td>Special Marks</td>
<td>50° 20.870’N</td>
<td>005° 35.570’W</td>
</tr>
<tr>
<td>South Cardinal</td>
<td>50° 20.640’N</td>
<td>005° 35.010’W</td>
<td>Special Marks</td>
<td>50° 20.700’N</td>
<td>005° 37.240’W</td>
</tr>
<tr>
<td>Special Marks</td>
<td>50° 22.830’N</td>
<td>005° 37.770’W</td>
<td>Special Marks</td>
<td>50° 21.760’N</td>
<td>005° 37.500’W</td>
</tr>
<tr>
<td>Special Marks</td>
<td>50° 22.980’N</td>
<td>005° 36.120’W</td>
<td>Special Marks</td>
<td>50° 21.910’N</td>
<td>005° 35.820’W</td>
</tr>
</tbody>
</table>

For further information, please contact: Colin Campbell, Marine Operations Manager, Tel: 01736 800291, email: colin.campbell@wavehub.co.uk
Burbo Bank Offshore Wind Farm – Extension (Update 05-06-2012)

A GEOPHYSICAL SURVEY of the proposed BURBO BANK EXTENSION but mainly of the proposed EXPORT CABLE ROUTES is scheduled to start on or around Thursday June 7th.

This survey is expected to last for a period of 10 working days, dependant on weather, and will be carried out by two vessels the 26 meter ‘M/V CHARTWELL’ and the 12 meter ‘M/V FREJA’ and will involve towing geophysical survey equipment at up to 100m astern of the vessels and at variable depths.

A wide berth is requested at all times as the vessels will be restricted in their ability to manoeuvre.

During survey operations ‘M/V CHARTWELL’ will work on a 24hr basis and will cover the area further off, while ‘M/V FREJA’ will work on a 12hr. basis and cover the area closer inshore.

Attached is a small chartlet which shows the proposed BURBO BANK EXTENSION as well as the proposed EXPORT CABLE ROUTES shaded in pink, there are also pictures of the two survey vessels.

Both vessels will keep a listening watch on VHF Channels 16 & 12 and can be contacted for information relating to vessel movements only.

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

Walney 1 & 2 Offshore Wind Farms – Construction Activity (Update 03-06-2012)

Walney 1
All 51 turbines in the Walney phase 1 have been erected, all cables buried and most scour protection is complete.

Walney 2
All 51 turbines in Walney 2 have been erected and energised, scour protection is completed, and all cables are buried. There is a small area of the BT cable crossing still outstanding to be completed later this summer.

The Guard vessel Samrene is on station at Walney 2 announcing safety related information.

The crew boats Wind Transporter, Wind Transfer, ECC Topaz, Wildcat 2, EMS Vulcan, Colwyn Bay, Tremadoc Bay, Guardian 3, Vanishing Point, and Gallion, make trips for personnel transfers as required from Barrow.

<table>
<thead>
<tr>
<th>ROCK DUMPING (EXPORT CABLE)</th>
<th>ROCK DUMPING (EXPORT CABLE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude Longitude Finish Latitude Longitude Finish Metres</td>
<td>Latitude Longitude Finish Latitude Longitude Finish Metres</td>
</tr>
<tr>
<td>53° 59.314’N 003° 13.615’W 53° 59.320’N 003° 13.566’W 50</td>
<td>53° 59.646’N 15.191’W 53° 59.746’N 003° 15.407’W 300</td>
</tr>
<tr>
<td>54° 00.097’N 16.100’W 54° 00.301’N 003° 16.526’W 600</td>
<td></td>
</tr>
</tbody>
</table>

Continued over page...
9th June 2012

Kingfisher
Fortnightly Bulletin

Offshore Wind and Marine Renewables

WALNEY 2 (Array CABLE)

---continued from previous page---

<table>
<thead>
<tr>
<th>Rock dumping Start</th>
<th>Rock dumping Start</th>
<th>Rock dumping Finish</th>
<th>Rock dumping Finish</th>
<th>Length Metres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>Longitude</td>
<td>Latitude</td>
<td>Longitude</td>
<td></td>
</tr>
<tr>
<td>54° 05.492'N</td>
<td>003° 36.791'W</td>
<td>54° 05.546'N</td>
<td>003° 36.867'W</td>
<td>130</td>
</tr>
<tr>
<td>54° 05.776'N</td>
<td>003° 36.188'W</td>
<td>54° 05.827'N</td>
<td>003° 36.271'W</td>
<td>130</td>
</tr>
</tbody>
</table>

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

‘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  
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

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

Ormonde Offshore Wind Farm – Construction Activities (Update 02-06-2012)

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 FL 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 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 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
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

Continued over page...
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

Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations (Update 01-06-2012)
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 Bath Survey for the exact position but fishermen are requested to note the above position, mark it on their charts / plotters and keep clear.

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, Quoofish, 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

Gwynt y Môr Offshore Wind Farm – Construction / Safety Zone (Update 24-05-2012)
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 26m 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 W TG 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 being 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 OSP (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. 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°37.080’W
2) GYM SW  Special Mark FI Y 2.5s    53°25.870’N 003°39.600’W
3) GYM W  West Cardinal VQ(9) 10s    53°26.832’N 003°42.129’W
4) GYM NW  West Cardinal Q(9) 15s    53°28.303’N 003°40.772’W
5) GYM NW  North Cardinal Q    53°29.670’N 003°36.857’W
6) GYM N  North Cardinal VQ    53°29.735’N 003°31.710’W
7) GYM NE  Special Mark FI Y 2.5s    53°28.390’N 003°29.340’W
8) GYM E  East Cardinal VQ(3) 5s    53°27.130’N 003°27.078’W
9) GYM SE  Special Mark FI Y 2.5s    53°26.015’N 003°32.080’W

Safety Zones
An application for safety zone scheme during construction, major maintenance, decommissioning periods has been sought for the Gwynt Y Mor 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 Mor.

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

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

Kingfisher Awareness Flyer: Gwynt Y Mor Offshore Wind Farm
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 FL 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 FL 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.

<table>
<thead>
<tr>
<th>Wave Buoy</th>
<th>Acoustic Doppler Profilers</th>
</tr>
</thead>
<tbody>
<tr>
<td>53° 52.992’ N 4° 08.164’ W</td>
<td>53° 37.659’ N 4° 17.990’ W</td>
</tr>
<tr>
<td>* Alternative position</td>
<td></td>
</tr>
</tbody>
</table>

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

Irish Sea Offshore Wind Farm – Survey Activities (New 11-05-2012)

Company, Vessel & Call Sign | Area Covered | Start Timeframe & Duration |
--- | --- | --- |
Gardline Geo Surveys Ltd | 53° 51.140’N 004° 40.094’W 53° 34.349’N 004° 01.722’W | Early April – Mid July 2012 |
| Vessel: Normand Mermaid | 53° 51.353’N 004° 32.946’W 53° 33.875’N 004° 25.752’W | |
| ZIUM2 | 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° 04.876’W 53° 48.769’N 004° 43.030’W | |
| | 54° 06.508’N 004° 01.700’W | |

A sea bed frame (3m x 3m, 18Te) from the vessel (Normand Mermaid) has been temporarily deposited on the sea bed, until a time as it can be recovered. Any vessels trailing equipment / gear are advised to avoid the exclusion area.

<table>
<thead>
<tr>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>53° 38.948’ N 4° 16.962’ W</td>
<td></td>
</tr>
<tr>
<td>53° 38.958’ N 4° 16.054’ W</td>
<td></td>
</tr>
<tr>
<td>53° 38.419’ N 4° 16.038’ W</td>
<td></td>
</tr>
</tbody>
</table>

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

Islay Offshore Wind Farm Site – Survey Activities (New 08-05-2012)

Please be advised that SAMS (The Scottish Association for Marine Science) will be carrying out marine sampling operations in the Malin Sea, approximately 13km of the west coast of Islay.

<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>
</tr>
</thead>
<tbody>
<tr>
<td>The Scottish Association For Marine Science</td>
<td>55° 51.461’N 006° 41.876’W 55° 51.256’N 006° 40.045’W</td>
<td>21st May 2012 – 2nd July 2012</td>
<td></td>
</tr>
<tr>
<td>RV Aora</td>
<td>55° 42.161’N 006° 44.181’W</td>
<td>55° 42.526’N 006° 48.854’W</td>
<td>55° 46.950’N 006° 52.364’W</td>
</tr>
</tbody>
</table>

For further information, please contact: John Hausrath, SAMA, Tel: 01631 559 375  email:john.hausrath@sams.ac.uk
**Barrow Offshore Wind Farm – Operations (Update 08-05-2012)**

The small Jack-up ‘ODIN’ will shortly depart from Mostyn and is expected to arrive on site at the BARROW OFFSHORE WIND FARM.

‘ODIN’ will be accompanied by two support vessels ANDRE-B’ and ‘WAL’ and is expected to remain on site for a period of approx. 24 hrs whilst carrying out a gear box change at Turbine position D3.

A 500 meter safety exclusion zone is requested around ‘ODIN’ and the support vessels at all times when on site. 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 the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

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 the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

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 the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

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 the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

*Exposed Sections or Cable Buried to less than 0.2M*

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th></th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>54° 00.567 N</td>
<td>002° 57.333 W</td>
<td>53° 58.333 N</td>
<td>003° 02.983 W</td>
<td>53° 57.967 N</td>
</tr>
<tr>
<td>54° 00.500 N</td>
<td>002° 57.467 W</td>
<td>53° 58.333 N</td>
<td>003° 02.533 W</td>
<td>53° 58.233 N</td>
</tr>
<tr>
<td>54° 00.417 N</td>
<td>002° 57.617 W</td>
<td>53° 57.833 N</td>
<td>003° 05.050 W</td>
<td>53° 58.300 N</td>
</tr>
<tr>
<td>54° 00.383 N</td>
<td>002° 57.683 W</td>
<td>53° 57.667 N</td>
<td>003° 05.783 W</td>
<td>53° 58.333 N</td>
</tr>
<tr>
<td>53° 58.783 N</td>
<td>003° 00.533 W</td>
<td>53° 57.833 N</td>
<td>003° 06.067 W</td>
<td>53° 58.400 N</td>
</tr>
<tr>
<td>53° 58.683 N</td>
<td>003° 00.783 W</td>
<td>53° 57.700 N</td>
<td>003° 06.500 W</td>
<td>53° 58.417 N</td>
</tr>
<tr>
<td>53° 58.617 N</td>
<td>003° 00.950 W</td>
<td>53° 57.700 N</td>
<td>003° 06.617 W</td>
<td>53° 58.567 N</td>
</tr>
<tr>
<td>53° 58.483 N</td>
<td>003° 01.300 W</td>
<td>53° 57.700 N</td>
<td>003° 06.717 W</td>
<td>53° 58.667 N</td>
</tr>
<tr>
<td>53° 58.450 N</td>
<td>003° 01.483 W</td>
<td>53° 57.767 N</td>
<td>003° 07.200 W</td>
<td>53° 58.917 N</td>
</tr>
<tr>
<td>53° 58.383 N</td>
<td>003° 01.817 W</td>
<td>53° 57.933 N</td>
<td>003° 07.983 W</td>
<td></td>
</tr>
</tbody>
</table>

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

**HEYSHAM LAKE / LUNE DEEP AREA**

| 53°58.00'N | 003°01.00'W |
| 53°58.30'N | 003°02.80'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*

**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.

<table>
<thead>
<tr>
<th>Site</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Site</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waverider D1</td>
<td>55° 45.614 N</td>
<td>006° 43.238 W</td>
<td>Guard Buoy GB1</td>
<td>55° 45.847 N</td>
<td>006° 43.352 W</td>
</tr>
<tr>
<td>Waverider D1</td>
<td>55° 50.656 N</td>
<td>006° 41.371 W</td>
<td>Guard Buoy GB2</td>
<td>55° 50.783 N</td>
<td>006° 41.524 W</td>
</tr>
<tr>
<td>Waverider D1</td>
<td>55° 46.551 N</td>
<td>006° 51.347 W</td>
<td>Guard Buoy GB3</td>
<td>55° 46.706 N</td>
<td>006° 51.529 W</td>
</tr>
</tbody>
</table>

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 Fl (5) Y 20s

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