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, or you can register for an email alert by contacting: kingfisher@seafish.co.uk

All co-ordinates listed in this Bulletin refer to WGS84 datum
Beatrice Offshore Windfarm Limited - Marine Survey

Fugro EMU Limited will be carrying out marine survey operations in the BOWL wind farm site in the outer Moray Firth off the north east coast of Scotland on behalf of Beatrice Offshore Windfarm Ltd

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fugro Emu Ltd, RV Discovery 2AEL8</td>
<td>1. 58°20.269'N 002°50.981'W</td>
<td>15th July 2013</td>
<td>For 3 Weeks</td>
</tr>
<tr>
<td></td>
<td>2. 58°18.141'N 002°44.140'W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 58°14.189'N 002°48.248'W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 58°09.336'N 002°57.135'W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. 58°11.700'N 003°01.709'W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. 58°18.550'N 002°55.921'W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Rebecca, Brown and May Marine, Tel: 07715 994134 email: Rebecca@brownmay.com

West of St. Ninian’s Isle – Scientific Deployment

Aegir Wave Power has redeployed a waverider buoy around 4km off the coast of St. Ninian’s Isle, southwest Shetland.

The buoy is yellow, 0.7m in diameter and fitted with a yellow flashing light. The buoy is moored by a slack line with underwater floats with allows the buoy to move around a 200m watch circle. Mariners are asked to keep a distance from the buoy.  59°58.560’N  001° 26.500’W

The buoy will remain onsite for between 1-3 years. NAFC Marine Centre will monitor and maintain the buoy while it’s onsite.

For further information, please contact: R. Hart, Aegir Wave Power, Tel: 0131 5612555, Email: enquiries@aegirwave.com
Dogger Bank Creyke Beck – Section 48, Planning Act 2008

Forewind Limited Dogger Bank Creyke Beck

Section 48, Planning Act 2008 Regulation 4, The Infrastructure Planning

Forewind has now published notice of the proposed application for a development consent order to construct and operate the offshore wind development Dogger Bank Creyke Beck, including the onshore infrastructure near Cottingham, East Riding of Yorkshire. Dogger Bank Creyke Beck is the first stage of development of the Dogger Bank Zone in the North Sea. It comprises two offshore wind farm arrays (Dogger Bank Creyke Beck A and Dogger Bank Creyke Beck B), each with a generating capacity of up to 1.2 gigawatts, and associated infrastructure. Forewind’s proposed application to the Secretary of State seeks development consent for the construction and operation of both.

The full notice can be viewed at:


For further information, please contact: Sue Vincent, Forewind, Tel: 07768 508742 email: sue.vincent@forewind.co.uk

Dogger Bank Wind Farm – Geophysical Survey

Mariners are advised that the MV Vigilant shall continue a geophysical survey of the Dogger Bank Wind Farm Tranche C area and proposed in-zone cable corridors in the week beginning 01st of April 2013.

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

For further information, please contact: Callum Duffy, Forewind Ltd, Tel: +44(0)118 9556188 email: callum.duffy@forewind.co.uk
### Humber Gateway Offshore Wind Farm – Boulder Removal Operations

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area</th>
<th>Area</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
</table>
| EON MV Atlantic Carrier ELEE3 | 1. 53°40.100’N 000°14.810’E  
2. 53°41.030’N 000°19.880’E  
3. 53°38.020’N 000°19.880’E  | 4. 53°35.830’N 000°16.900’E  
5. 53°35.280’N 000°16.240’E  
6. 53°36.780’N 000°16.280’E  | 19th July 2013  
30th August 2013 |
| EON Forth Constructor GXAD MV Waterfall 2CBT4 | 1. 53°39.350’N 000°15.190’E  
2. 53°39.650’N 000°15.040’E  
3. 53°38.960’N 000°10.710’E  | 4. 53°38.970’N 000°08.140’E  
5. 53°38.570’N 000°08.140’E  
6. 53°38.560’N 000°10.820’E  | 29th June 2013  
20th July 2013  |
| EON Scotia W MWAM | 1. 53°44.000’N 000°09.517’E  
2. 53°45.917’N 000°18.433’E  | 3. 53°33.867’N 000°15.667’E  
4. 53°35.767’N 000°24.583’E  | 8th July 2013  
30th March 2014  |

For further information, please contact: Gordon Bain, Eon Tel:+44(0) 7787241442 or Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891

### Humber Gateway Offshore Wind Farm – Dredging Operations

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area</th>
<th>Area</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
</table>
| EON Manu Pekka – Back Hoe Dredger SBHJ2  
RRV Audrey 2CTN7  
Terrenare 1 Tug SBHJ2  
MCS Blue Norther 2GDD5 | 1. 53°38.570’N 000°08.140’E  
2. 53°39.980’N 000°10.710’E  
3. 53°39.650’N 000°15.040’E  | 4. 53°38.570’N 000°08.140’E  
5. 53°38.560’N 000°10.820’E  | 24th July 2013  
For 3 Weeks  |

For further information, please contact: Gordon Bain, Eon Tel:+44(0) 7787241442 or Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891
**First Published: 19 April 2013 | Latest Update: 16 July 2013**

### East Anglia Offshore Wind – Navigational Fault on Met Mast ZE

The East Anglia Zone is situated in UK territorial waters within the southern North Sea off the coast of North and Suffolk. As part of the development, the met masts are to be installed in the south east of the site and the north east.

Please be advised that the Navigation aid system on EA1B is currently non-operational due to an unknown fault. Guard vessel Jubilee Pride remains in attendance. WGK will advise as to remediation strategy asap.

Note that the EAZE navaid system is the one which does not feature AIS and Racon; it has lantern and fog signal only.

<table>
<thead>
<tr>
<th>Met Mast</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Met Mast ZE (as installed)</td>
<td>53° 10.646N</td>
<td>02° 59.103E</td>
</tr>
<tr>
<td>Met Mast 1B</td>
<td>52° 12.863N</td>
<td>02° 30.111E</td>
</tr>
</tbody>
</table>

**Work Schedule**

WOOD GROUP KENNY commenced Phase I operations (installation of foundations) on the 6th May 2013 utilising the HLV STANISLAV YUDIN with AHTSs Smit Angola and Bremen Fighter and concluded operations on the 13th May.

WOOD GROUP KENNY returned to site EA1B on the 15th July 2013 utilising the HLV OLEG STRASHNOV to complete piling operations. The operation concluded on the 16th July 2013

WOOD GROUP KENNY is due to commence Phase II operations (installation of transition pieces and lattice towers) between the 1st June 2013 and the 1st September 2013 for a period of approximately seven days (weather dependent) utilising the HLV OLEG STRASHNOV with AHT Union Princess. Installation of additional equipment and instrumentation will follow Phase II operations directly for a period of two weeks (weather dependent) utilising a Crew Transfer Vessel (details TBC). Please note that the dates specified above are based upon our current vessel planning and is therefore subject to change, if appropriate an updated NTM will be submitted with as much notice as possible.

**For further information, please contact:** James Beale, Wood Group Kenny, Tel: +44(0)1784 417263, email: james.beale@woodgroupkenny.com

### Lincts Offshore Wind Farm – Construction Activity & Survey

**Commissioning works are continuing at selected locations via various vessels.**

- Continuation of commissioning works at selected locations within Lincs via various vessels
- The Wind Ambition remains anchored to the east of the Lincs Wind Farm site and vessels will be transiting to and from this vessel to the site at all times

**Cables**

All inter-array cables are now installed, although some exposed cable ends exist near turbines. Mariners are reminded to maintain a 50m safety zone from all foundation structures during construction and 500m from any foundation where works are underway.

**Safety Zones**

Mariners are advised that all 75 x WTG’s have now been successfully completed. 50m safety zones remain around all WTG locations whilst final commissioning works take place. A 500m safety zone remains around the offshore substations.

**Coordinates of Operations**

The position and type of these buoys is shown below:

<table>
<thead>
<tr>
<th>Buoy</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Buoy</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53° 12.440N</td>
<td>00° 31.460E</td>
<td>Special Mark (Fl Y 2.5s)</td>
<td>53° 14.670N</td>
<td>00° 27.020E</td>
</tr>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53° 10.970N</td>
<td>00° 31.500E</td>
<td>West Cardinal (VQ) (9) (10s)</td>
<td>53° 09.450N</td>
<td>00° 31.500E</td>
</tr>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53° 13.800N</td>
<td>00° 30.940E</td>
<td>West Cardinal (VQ) (9) (10s)</td>
<td>53° 15.170N</td>
<td>00° 30.550E</td>
</tr>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53° 10.340N</td>
<td>00° 28.010E</td>
<td>West Cardinal (VQ) (9) (10s)</td>
<td>53° 07.540N</td>
<td>00° 29.790E</td>
</tr>
</tbody>
</table>

**Production by The Kingfisher Information Service of Seafish, in conjunction with The Crown Estate.**

Any queries please contact Kingfisher Information Services, Sea Fish Industry Authority, Humber Seafood Institute, Origin Way, Europarc, Grimsby, DN37 9TZ

email: kingfisher@seafish.co.uk  website: www.kingfishercharts.org  tel: +44 (0)1472 252307  fax: +44 (0)1472 268792

**First Published: 27 June 2012 | Latest Update: 15 July 2013**
**Dudgeon Offshore Wind – Geophysical Survey**

Geophysical and UXO survey of proposed wind farm site and cable route.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
</table>
| Fugro Emu Ltd Clupea MZFS9   | 1. 53°01.552'N  1°14.441'E  
2. 53°02.089'N  1°13.485'E  
3. 53°13.353'N  1°22.445'E  
4. 53°15.107'N  1°16.891'E  
5. 53°18.469'N  1°17.254'E  
6. 53°19.498'N  1°18.377'E  
7. 53°20.320'N  1°20.940'E  
8. 53°16.734'N  1°28.668'E  
9. 53°15.598'N  1°28.564'E  
10. 53°14.322'N  1°27.958'E  
11. 53°13.595'N  1°27.761'E  
12. 53°14.256'N  1°28.928'E  
13. 53°13.722'N  1°28.422'E  
14. 53°11.395'N  1°27.761'E  
15. 53°11.109'N  1°27.392'E  | 26th April 2013 - 01st Sept 2013 | For 130 Days |
| Geo Blue Beta OUVZ2          | 1. 53°03.993'N  001°22.751'E  
2. 53°02.091'N  001°21.019'E  
3. 53°00.969'N  001°18.701'E  
4. 53°00.990'N  001°16.898'E  | 10th June 2013 - 12th August 2013 | - |
|                            | 5. 53°00.688'N  001°14.222'E  
6. 52°07.500'N  001°08.894'E  |                         |      |
|                            | 7. 52°06.950'N  001°08.098'E  |                         |      |
|                            | 8. 52°06.976'N  001°08.552'E  |                         |      |
|                            | 9. 53°04.812'N  001°20.977'E  |                         |      |

**London Array Wind Farm – Construction Works**

The London Array Offshore Wind Farm is being 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.

Current work activities include:

- Cable burial vessel Pontra Maris assisted by tugs, Amstelstroom and Claudia B will continue cable burial operations at shallow water locations. Whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear.
- The HBC Performer will carry out remedial works on cables and cable protection units, using the HBC Tender as her dive vessel. Whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear.
- The Atlantic Guardian assisted by the shallow water burial barge Hermes II and the fast rescue craft Atlantic Rescue 1 will conduct cable burial operations at

For further information, please contact: Matt Howell, Fugro EMU Limited, Tel +44(0) 1489 860 064 email: matt.howell@fugroemu.com
Callum Duffy, Forewind Ltd, Tel: +44(0)118 9556188 email: callum.duffy@forewind.co.uk

First Published: 01 July 2012 | Latest Update: 14 July 2013

6 of 18
For live Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu

shallow water locations. Whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear.

- Construction site guard vessel duties will be covered by the Mary Ann 1.
- Crew boats Marian Array, Smeaton Array, Ellida Array, Conwy Bay, Towyn Bay, Cwind Alliance, Transporter, Distributor, Admiral P, Aberffraw Bay, ECC Topaz, ECC Opal, Dalby Humber, Sea Ferret ECC Challenger & Sea Weasel will take offshore technicians to the installed foundations and construction vessels, and perform personnel transfer duties.
- The vessel Meriel D conducting site survey work, including the export cable route and array cables.

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

Kingfisher Awareness Flyer: London Array Offshore Wind Farm

First Published: 27 June 2012 | Latest Update: 11 July 2013

Teesside Offshore Wind Farm – Safety Zone Cardinal Buoys Out of Service

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.

The following activities are continuing:
- Continue turbine commissioning offshore

WARNING: The Following Cardinal Buoys are currently Out of Service:

<table>
<thead>
<tr>
<th>Buoy</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Cardinal</td>
<td>54° 39.020’N</td>
<td>01° 07.260’W</td>
</tr>
</tbody>
</table>

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

First Published: 08 July 2012 | Latest Update: 08 July 2013

Lynn and Inner Dowsing Wind Farm – Notice to Mariners

Planned Power outage at the Lynn and Inner Dowsing Wind Farms which will affect the Aids to Navigation for this site.

Guard Vessel: The guard vessel, the “Rachel S”, will patrol the north, west and south boundary of the Inner Dowsing site from 24/07/13 to 31/07/13 for the duration of the navigational aid outage.

Mariners are advised to exert caution in the vicinity of the wind farm during this time and to communicate with the Centrica Marine Coordinator when operating near the site.

For further information, please contact: Centrica Marine Coordinator, Radio Channel: 157.450 MHz, Tel: 07789 573792, Email: cermarine.coordinator@centrica.com
### Triton Knoll Offshore Wind – Survey

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWE Renewables, MV Ivero</td>
<td>1. 53°32.271'N 0°51.678'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
<tr>
<td></td>
<td>2. 53°24.521'N 0°59.656'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
<tr>
<td></td>
<td>3. 53°24.521'N 0°56.029'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
<tr>
<td></td>
<td>4. 53°29.212'N 0°41.481'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
<tr>
<td></td>
<td>5. 53°31.710'N 0°42.973'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
<tr>
<td></td>
<td>6. 53°32.271'N 0°51.678'E</td>
<td>15th July 2013</td>
<td>For 6 days</td>
</tr>
</tbody>
</table>

For further information, please contact: Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891 email: n.proctor@precisionmarine.co.uk

### Westermost Rough Offshore Wind – Survey

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dong Fugro Commander HO3057</td>
<td>1. 53°46.131'N 0°08.365'E</td>
<td>16 July 2013 to 30 July 2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. 53°48.722'N 0°05.235'E</td>
<td>16 July 2013 to 30 July 2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 53°50.575'N 0°09.819'E</td>
<td>16 July 2013 to 30 July 2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 53°47.982'N 0°12.743'E</td>
<td>16 July 2013 to 30 July 2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. 53°46.131'N 0°08.365'E</td>
<td>16 July 2013 to 30 July 2013</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Lasse Hartvig Hirsch, Westermost Rough Ltd, Email: LASHI@dongenergy.dk
### Race Bank Offshore Wind Farm – Geotechnical Investigation

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centrica</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPV: Shake Dog</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MV Neptune</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. 53°13.230’N 000°53.750’E</td>
<td></td>
<td>02 July 2013</td>
<td></td>
</tr>
<tr>
<td>2. 53°15.280’N 000°47.370’E</td>
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</tr>
<tr>
<td>3. 53°17.560’N 000°46.560’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 53°18.130’N 000°44.720’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 53°20.090’N 000°44.820’E</td>
<td></td>
<td>31 August 2013</td>
<td></td>
</tr>
<tr>
<td>6. 53°20.180’N 000°49.210’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 53°17.550’N 000°50.340’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. 53°15.720’N 000°55.990’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. 53°13.230’N 000°53.750’E</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Simon Prince, RSS Marine, Email: sprince@rssmarine.co.uk or aprince@dsml.co.uk

### Westermost Rough Offshore Wind – Boulder Relocation Works

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV Peter Madsen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Sign: OZD12</td>
<td></td>
<td>8th July 2013</td>
<td></td>
</tr>
<tr>
<td>1. 53°46.808’N 000°01.282’E</td>
<td></td>
<td>Throughout 2013</td>
<td></td>
</tr>
<tr>
<td>2. 53°47.065’N 000°03.013’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. 53°47.294’N 000°04.580’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 53°47.362’N 000°06.082’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 53°48.566’N 000°06.123’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 53°47.627’N 000°07.394’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 53°46.789’N 000°08.522’E</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MV Elisabeth Hoej</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Sign: GYRQZ</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>8. 53°49.169’N 000°08.023’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. 53°48.001’N 000°09.412’E</td>
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<tr>
<td>10. 53°47.582’N 000°10.830’E</td>
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<td></td>
</tr>
<tr>
<td>11. 53°50.092’N 000°09.589’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. 53°48.952’N 000°10.976’E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. 53°48.041’N 000°11.744’E</td>
<td></td>
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</tr>
</tbody>
</table>

For further information, please contact: Lasse Hartvig Hirsch, Westermost Rough Ltd, Email: LASHI@dongenergy.dk
Westermost Rough Offshore Wind – Fish and Shellfish Survey

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dong Huntress 2ETP3</td>
<td>7. 53°50.575'N 0°09.615'E 8. 53°47.982'N 0°12.743'E 9. 53°46.131'N 0°08.365'E 10. 53°48.722'N 0°05.235'E</td>
<td>12th June 2013 30th September 2013 For 2 days per week</td>
<td><img src="image" alt="Area 3" /></td>
</tr>
</tbody>
</table>

For further information, please contact: Lasse Hartvig Hirsch, Westermost Rough Ltd, Email: LASHI@dongenergy.dk

Hornsea Offshore Wind Farm – Survey Activities

**Buoys**
A directional wave rider (DWR) buoy is located at Schooner Field (location 7a) and will be serviced at 6 monthly intervals, and remain in place until further notice. 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 plaited rope 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>Name</th>
<th>Equipment</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>7a</td>
<td>Schooner Field</td>
<td>DWR buoy</td>
<td>53° 53.367'N</td>
<td>01° 59.100'E</td>
</tr>
</tbody>
</table>

**Met Mast**
A meteorological mast is located at the position: 53°53.143'N 001°59.497'E
In Foggy conditions the fog detection and control system is diverting the primary navigation lights and fog horn to the emergency navigation lights and fog horn. Be extra vigilant when navigating in adverse foggy conditions in the met mast area. Smart Wind can confirm that the aviation light is operational.

For a copy of the Kingfisher Awareness Flyer for the Hornsea Offshore Wind Farm, please click on the link below, or visit [www.kingfishercharts.org](http://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

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East Anglia Offshore Wind – Metocean Monitoring

Please be advised that the first of the (*)waveriders within the East Anglia Zone has been relocated as it has unfortunately been hit on a couple of occasions.

<table>
<thead>
<tr>
<th>Buoy Type</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waverider</td>
<td>52° 52.415'N</td>
<td>02° 53.680'E</td>
</tr>
<tr>
<td>Waverider</td>
<td>52° 36.320'N</td>
<td>02° 46.490'E</td>
</tr>
<tr>
<td>Waverider</td>
<td>52° 18.620'N</td>
<td>02° 27.560'E</td>
</tr>
<tr>
<td>AWAC</td>
<td>52° 52.390'N</td>
<td>02° 53.730'E</td>
</tr>
<tr>
<td>AWAC</td>
<td>52° 33.350'N</td>
<td>02° 46.430'E</td>
</tr>
</tbody>
</table>

For further information, please contact: Jonathan Keer, Tel: +44(0)1379 870 181, email: jonathan@brownmay.com
Seabed Activity – Seabed acoustic fish tracking landers

The 6 seabed acoustic fish tracking landers are now deployed (since 7 July 2013) just outside the perimeter of the Wave Hub site, Cornwall. Each lander is situated ~250m clockwise of the Wave Hub Special Marks, except for the southwest corner (lander 3) where allowance of the Wave Hub 500m exclusion zone has been accommodated. Lander are 2.4m tall tripods and weigh 670kg. They will be coupled with acoustically tagged fishes.

Location | LAT | LONG   
--- | ---: | ---: 
NW | 50°22.873'N | 05°37.567'W 
Mid West | 50°21.888'N | 05°37.567'W 
SW | 50°21.107'N | 05°37.390'W 
SE | 50°20.810'N | 05°35.263'W 
Mid East | 50°21.805'N | 05°35.779'W 
NE | 50°22.855'N | 05°36.025'W 

For further information, please contact: Dr Stephen Cotterell at the Marine Biological Association +44(0)1752 633207 email scotterell@mba.ac.uk
web [http://www.mba.ac.uk/simslab](http://www.mba.ac.uk/simslab)
Gwynt y Môr Offshore Wind Farm – Construction Activities

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 Rhyll 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.

A Floating Light Detection and Ranging (FLIDAR) buoy together with a Wave Rider Buoy (WRB) are due to be installed in the vicinity of Gwynt y Môr windfarm during early-mid July 2013.

Wave Rider Buoy: this will be installed by the vessel MV Saint David at location 53°28.618’N 3°30.191’W.
FLIDAR Buoy: this will be installed at location 53°28.709N 3°30.355W. The installation vessel has not yet been determined.

The buoys are equipped with electronic equipment for monitoring windspeed and wave climate. All vessels are asked to observe a 500m exclusion zone around the installation vessels during installation works. The MV Saint David and other vessels involved in installation of these buoys will monitor VHF Channel 16 at all times.

Activities due to commence:

On the 18th July 2013, engineers are due to be carrying out electrical commissioning work on the Offshore Substation East within the Gwynt y Môr windfarm area. All vessels are requested to observe a 500m exclusion zone around the OSPE from 0900 onwards on the 18th July.

The latitude and longitude of the OSPE substation is: 53°27.94’N 03°32.44’W

- Friederich Ernestine and support vessels will continue with monopile cleaning and TP installation in the windfarm area.
- Stanislaw Yudin and supporting tugs continued Monopile and Transition Piece installation

Wind Solution maintained anchor position to the south of Gwynt y Môr

- Penrhyn Bay, Caernarfon Bay, Gardian, Gallion, Chincok, Scooc, Abersoch Bay, Porth Dinlaen and Porth Dafydd are using Crew Transfer Vessels when required sailing from Canada Dock 3.
- Penflooding Bay & TramRoad Bay are on 24 hour cover and being utilised by the Emergency Rescue Team sailing from RWE Pontoon Birkenhead.
- Colwyn Bay utilised as Crew Transfer / Stand by vessel as required and based at Liverpool Marina.
- Isodale is performing guard duties and will be used as the Marine Mammal Observation vessel.
- Normand Torger has continued diving operations.
- Terramar 1 left the project.
- Polar Prince has continued array cable installation.
- Sea Jack and Sea Worker continued turbine installation returning to the Port of Mostyn to reload
- JB114 is alongside OSP West
- Barges UR7 & UJ3 towed by lead tug Union Fighter continued with component deliveries to the Stanislaw Yudin.

Anchoring of the hotel vessel "Wind Solution":

Duration: The “Wind Solution” will be anchored in position from 05 June 2013 until further notice. Please be advised that the hotel ship “Wind Solution” will be anchored in position 53° 25.428 N, 003° 32.400 W. There will be a high volume of Crew Transfer Vessel movements in the vicinity of the “Wind Solution” when crew and personnel transfers are underway. The “Wind Solution” will make monthly port visits to Liverpool. All traffic is advised to keep at least 500m clear of “Wind Solution”. The vessel will monitor VHF CH 16 at all times.

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

Kingfisher Awareness Flyer: Gwynt Y Mor Offshore Wind Farm

For further information, please contact: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: lee.cornwell@rwe.com
West of Duddon Sands Offshore Wind Farm – Construction Works

The West of Duddon Sands offshore windfarm is a joint venture between DONG Energy West of Duddon Sands (UK) Limited and ScottishPower Renewables (WoDS) Limited.

The Sub-Station has been installed and is undergoing cold commissioning work.

Divers from the Dive Support Vessel 'TERRAMARE 1' will operate as and when required, either inside the Wind Farm perimeter or along the Export Cable route, and mariners should note that a minimum 500 meter exclusion zone will be in force around 'TERRAMARE 1' as well as HBC Supporter

41 TURBINE FOUNDATIONS AND TRANSITION PIECES HAVE BEEN INSTALLED : A04, A06, A08, A11, A12, B01, B06, B07,B09, B10, B11, B12, C05, D03, D05, D06, E08, E11, F01, F10, F11, F12, F13, F14, G03, G04, G11, G12, G13, H07, H10, H11, H12, H13, I06, I07, I10, I11, I12, J06, J10

'PACIFIC ORCA' currently installing at B03 to be followed by H01 and then B08 'SEA INSTALLER' in Belfast to re-load.

Infield or Inter-Array cable laying and trenching vessels are now on site and are laying and burying cables, other support vessels as well as vessels concerned with acoustic and ROV surveys are also on site and all mariners are advised that unless on specific business or that there are circumstances relating to their own safety, or to the safety of others, that make it necessary to transit the site, the advice is to keep well clear and keep outside of the WIND FARM PERIMETER from now until construction is completed and the WIND FARM has been commissioned and you have been notified.

Export Cable Lay
The Guard Vessel 'HEADWAY' is guarding the crossing of the Barrow cable as well as the lay down area for the two export cables ends at KP9

The Guard Vessel 'OCEANUS' is guarding the first of two Export Cables in two areas, the Walney2 export cable crossing and the two gas pipeline crossings, just to the north of Barrow Wind Farm.

'OCEAN HARVESTER' is on Guard duties within the Wind Farm site and can be contacted for information relating to vessel movements inside the Wind Farm

Both of the EXPORT CABLES are laid and buried from the landfall position at Middleton Sands out to KP9 except where the Cable crosses the Barrow Export Cable. Barrow Export Cable Crossing Area: 54°59.40'N 003°01.80'W

The Guard Vessel 'HEADWAY' is on station to guard at the crossing area of the Barrow cable as well as the lay down area for the two export cables ends at PK9, 'HEADWAY' will keep a listening watch on VHF Channels 16 & 12.

Wave Rider Buoy – Lune Deep
There is a Wave Rider Buoy in Lune Deep in position: 53°59.072’N 003°01.693’W.

Cardinal Buoys Marking The Boundary Of The Wind Farm
The South West Cardinal Buoy has the top mark missing, this will be rectified by Trinity House, expected: 4th - 9th July 2013.

Boundary of Location Activities:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>54°00.15’N</td>
<td>003°33.52’W</td>
</tr>
<tr>
<td>54°01.78’N</td>
<td>003°26.67’W</td>
</tr>
<tr>
<td>53°58.35’N</td>
<td>003°22.80’W</td>
</tr>
<tr>
<td>53°56.64’N</td>
<td>003°25.37’W</td>
</tr>
<tr>
<td>53°56.72’N</td>
<td>003°29.33’W</td>
</tr>
</tbody>
</table>

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

Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm

In case of emergency, please contact: Dan Torben Christensen, Dong Energy, Tel: +44(0)7528921388 email: danch@dongenergy.dk
Walney 1, 2 & Extension Offshore Wind Farm – Construction Activity / Consultation

The exposed section of cable that was laid on the seabed between Turbine position E03 and the Sub-Station, inside WALNEY 1, has now been buried.

Fishermen are requested to keep clear of the area within WALNEY 1 where the cable has been buried, between Turbine position E03 and the Sub-Station, for at least one month in order for the ground to settle and for the cable burial to be monitored.

Any mariners, including fishermen, who do decide to navigate through the Wind Farm do so at their own risk, they are advised to familiarize themselves with the latest navigation or survey information issued about the Wind Farm before doing so and communicate with the service vessels on VHF Channel 16 or 12.

All of the Turbines at the WALNEY 1 & 2 OFFSHORE WIND FARM are operational and switched to automatic and producing power to the National Grid. All of the other power cables are buried (both infield and export) and anybody who unsure of the ROCK DUMP positions along the export cable routes should contact the undersigned.

Marker Buoys for Wet Storage Area
The 4 Buoys marking what was the wet storage area inside of Walney 2 are still in place although there are no anchors or obstructions on the seabed.

Position of Wet Storage Buoys

54°04.380’N  |  003°37.480’W

These Buoys are equipped with solar powered quick flash lights and will be removed at some future date. Until notice has been given that these buoys have been removed all mariners, and especially fishermen, wishing to navigate within the Wind Farm for whatever reason are advised to note these positions and enter them on their charts / plotters and keep clear.

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

Barrow Offshore Wind Farm – Operations

Please note, there are exposed sections of cable (or Cable Buried to less than 0.2M). Please refer to KFB 14/2012 for these locations.

All of the Turbines at the BARROW OFFSHORE WIND FARM are operational and switched to automatic providing power to the National Grid. The work to repair the fault on the Inter-Array or Infield Cable is now complete and all Navigation and Aviation Lights are working as normal.

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) and they can be contacted on VHF Channels 16 & 12 for information relating to vessel movements only.

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
Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations

The Jack-up vessel 'MV WIND' has now completed at the ROBIN RIGG WIND FARM and has left the site. All of the Turbines are operational and switched to automatic producing power to the National Grid.

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

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

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

Ormonde Wind Farm – Construction / Activities

All of the Turbines at the ORMONDE WIND FARM are operational and switched to automatic providing power to the National Grid. The 4 temporary buoys that were marking the perimeter of this Wind Farm have now been removed leaving only the two permanent buoys in position:

South corner: 54°03.790'N  003°25.430'W Characteristics: Q(6)+ LF1 15 sec White Light - range 5 miles
West corner:  54°05.510'N  003°28.690'W  Characteristics: Q(9) 15 sec White Light - range 5 miles

Small work boats are operating inside the Wind Farm on general maintenance as and when required, and as weather permits, and 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

For further information, please contact: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624
North Hoyle Offshore Wind Farm – Lifting Operations

Please be advised that Vestas Offshore UK Ltd will be carrying out maintenance operations including heavy lifting at the North Hoyle wind farm, situated off the North Wales coast. Operations will commence 1st July 2013 and will take approximately 3 weeks to complete (subject to weather delays).

WIND is a Jack-Up platform measuring 55 metres in length by 18 metres in width. It has a 4.8 metre deep hull, coloured red and white. When jacked up the WIND will be marked and displaying lights and day symbols in accordance with an Offshore Structure. Mariners are requested to keep well clear and pass slowly, particularly when the craft is afloat or manoeuvring.

For further information, please contact: John Davies, RWE npower renewables, Mob: +44 (0) 77899 20202, Email: john.daviesl@rwe.com

Floating Wind Measurement buoy – Liverpool Bay

On behalf of DONG Energy a ‘FLiDAR’ (floating wind measurement buoy) was installed in the Liverpool Bay area of the Irish Sea.

FLiDAR is a floating wind measurement device which consists of an offshore Light Detection And Ranging (LiDAR) device mounted on a standard yellow industrial buoy, powered by an autonomous solar and wind system, moored to the sea bed with anchor blocks and an anchor.

The Flidar device buoy will remain on station for at least 12 months within these coordinates, it is coloured yellow and fitted with a yellow X shaped topmark and exhibits a Fl (5) 20s range 5nm.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624
Shell Flats Bank – Malfunction to Navigation and Aviation Lighting

The two special marker buoys are now marking the 50m mast on the Shell Flats Bank and will remain in position until the Aviation lights on this mast have been repaired. The buoys are deployed approx. 75m either side of the mast on a North and South orientation.

Positions of the two buoys:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Buoy</th>
</tr>
</thead>
<tbody>
<tr>
<td>53°51.600’N</td>
<td>003°17.700’W</td>
<td>North Mast Special Mark</td>
</tr>
<tr>
<td>53°51.600’N</td>
<td>003°17.700’W</td>
<td>South Mast Special Mark</td>
</tr>
</tbody>
</table>

The Navigation Lights at the 80m mast have now been repaired, the aviation lights at this mast are still not working.

The Navigation and Aviation lights on 50m mast are not working.

Characteristics of the Special Marker Buoys - Flashing sequence: 0.5s ON & 2s OFF. Flash colour: Yellow. The two Metrological Masts are situated at the following positions:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Mast</th>
</tr>
</thead>
<tbody>
<tr>
<td>53°52.423’N</td>
<td>003°12.133’W</td>
<td>80m</td>
</tr>
<tr>
<td>53°51.600’N</td>
<td>003°17.663’W</td>
<td>50m</td>
</tr>
</tbody>
</table>

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