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
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
Neart na Gaoithe Offshore Windfarm – Survey Activity

Neart na Gaoithe Offshore Wind Limited will be carrying out 56 seabed Cone Penetration Tests (CPTs), 10 to 15 invasive magnetometer CPTs, and magnetometer scans along the Neart na Gaoithe offshore wind farm cable route. The Neart na Gaoithe cable route survey area is located in the outer Forth Estuary. The site is located approximately 30 km to the north of Torness, Scotland, with the cable route extending south to Thorntonloch.

<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>
Lincs Offshore Wind Farm – Construction Activity & Survey

Commissioning works are continuing at selected locations via various vessels.

**Activities**
- Continuation of commissioning works at selected locations within Lincs via various vessels

**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 substation.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53°07.540’N</td>
<td>00°29.790’E</td>
</tr>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53°09.070’N</td>
<td>00°31.490’E</td>
</tr>
<tr>
<td>Special Mark (Fl Y 2.5s)</td>
<td>53°13.800’N</td>
<td>00°30.940’E</td>
</tr>
<tr>
<td>North Cardinal (VQ)</td>
<td>53°15.170’N</td>
<td>00°30.350’E</td>
</tr>
<tr>
<td>Special Mark (Fl Y 2.5s)</td>
<td>53°10.970’N</td>
<td>00°31.500’E</td>
</tr>
<tr>
<td>West Cardinal (VQ (9) 10s)</td>
<td>53°14.670’N</td>
<td>00°27.020’E</td>
</tr>
<tr>
<td>West Cardinal (VQ (9) 10s)</td>
<td>53°09.450’N</td>
<td>00°28.050’E</td>
</tr>
<tr>
<td>East Cardinal (VQ (3) 5s)</td>
<td>53°12.440’N</td>
<td>00°31.460’E</td>
</tr>
<tr>
<td>West Cardinal (VQ (9) 10s)</td>
<td>53°09.450’N</td>
<td>00°28.050’E</td>
</tr>
</tbody>
</table>

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

Kingfisher Awareness Flyer: Lincs Offshore Wind Farm

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

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:
- Twenty Seven Turbines now capable of exporting power. Intermittent downtime anticipated due to ongoing functional testing and servicing.
- Building works continue to establish permanent maintenance base.
- Handover to operational team.

For further information, please contact: Simon Prince/Richard Hart, Tel: 01723893930, Mob:07920273866, Email: sprince@rssmarine.co.uk
Humber Gateway Offshore Wind Farm – Foundation Installation Phase 1

Please be advised that E.ON will be installing 28 Wind Turbine Foundations approximately 10 miles offshore from Spurn Head, within the Humber Gateway Offshore Wind Farm.

Operations are expected to start on the 17/08/13 and are scheduled to last approximately 4 months (subject to weather) using the vessel MPI Discovery. The vessel will be loading 4 foundations from Bo Terminal, Flushing in Holland at a time and will be carrying out operations on an 8 day cycle, weather permitting.

LAT          LONG
53°40.100’N   00°14.810’E
53°41.030’N   00°19.880’E
53°38.020’N   00°19.880’E
53°35.830’N   00°16.900’E
53°35.280’N   00°16.240’E
53°36.780’N   00°16.280’E

Please be advised that X2 temporary anchors have been laid in the position of the new export cable ducts located on the inshore area export cable route for the Humber Gateway Offshore Wind Farm. Each has been marked with yellow marker buoys with 2-3nm yellow lights which flash in a sequence of 1 sec every 5 seconds. These will remain in place until 20th October 2013.

Anchors          LAT          LONG
North Duct Anchor 53°38.750’N 00°08.383’E
South Duct Anchor  53°38.717’N 00°08.417’E

Please be advised Trinity House will shortly begin operations for the deployment of 5 new cardinal buoys / recovery of 5 current cardinals on behalf of E.ON 10 miles offshore from Spurn Head, on the Humber Gateway Offshore Wind Farm Site. Deployment operations are expected to start 26/08/2013 and are scheduled to last 1-2 days, subject to weather, using the vessel THV Galatea.

Buoy          Characteristics          Lat          Long
West Cardinal Lighted Buoy (N) V Q (9) 10s   53°39.900’N 00°14.200’E
West Cardinal Lighted Buoy (S) Q (9) 15s   53°37.000’N 00°17.400’E
South Cardinal Lighted Buoy Q (6) + LFI 15s 53°36.500’N 00°15.600’E
East Cardinal Lighted Buoy (S) Q (3) 10s   53°38.400’N 00°20.100’E
East Cardinal Lighted Buoy (N) V Q (3) 5s   53°40.300’N 00°20.100’E

A wide berth is requested at all times with a 500m exclusion zone being established prior to all lifting operations and collapsed upon the successful positioning of the individual buoys. This will be communicated to all project vessels and local mariners by THV Galatea over VHF radio channel 16. THV Galatea will be monitoring VHF channel 14/16 at all times.

For further information, please contact: Gordon Bain, Eon Tel:+44(0) 7787241442 or Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891
Hornsea Offshore Wind Farm – Survey Activities

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

Kingfisher Awareness Flyer: Hornsea Offshore Wind Farm

East Anglia Offshore Wind – Completion of Works for Met Masts

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.

Work Schedule

Installation Works have been fully completed, comprising the following campaigns:

- 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 2013.
- 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.
- Briggs Marine has installed four type 2 cardinal buoys at each of the two met mast locations. The buoys are located 500m to the north, south, east and west of the met masts. The deployment commenced on the 3rd August 2013 utilising the FORTH CONSTRUCTOR and concluded on the 8th August 2013.
- WOOD GROUP KENNY commenced Phase II operations (installation of transition pieces and lattice towers) on the 8th August 2013 utilising the HLV OLEG STRASHNOV with AHT Union.Princess, and concluded on the 12th August 2013.
- Installation of additional equipment and instrumentation and offshore commissioning followed Phase II and directly utilising multi-purpose offshore vessel OCEAN DRAGON; commencing on the 14th August 2013 and concluding on the 30th August 2013.

Guard vessels remain in attendance at both sites.

For further information, please contact: James Beale, Wood Group Kenny, Tel: +44(0)1784 417263, email: james.beale@woodgroupkenny.com
Rampion Wind Farm Project – Geotechnical Investigation

The proposed Rampion Wind Farm is located in the eastern English Channel located 13km (8 miles) from the stretch of coast extending from approximately East Worthing in the west to Peacehaven in the east and covers an area of approximately 139km² within water depths of between approximately 19 and 40 metres.

Please be advised that Fugro will be carrying out marine geotechnical operations with the survey vessel MV Markab, on behalf of E.ON for the Rampion Offshore Wind Farm project. Geotechnical operations will be conducted throughout the proposed wind farm site. Further operations with additional geotechnical vessels will be conducted throughout the remainder of 2013.

The geotechnical operations from the MV Markab will be carried out from approximately 10/08/2013, for the remainder of 2013 and into early 2014. The exact finish date will be dependent on the prevailing weather conditions and work progress.

The following area indicates the limits of the wind farm:

<table>
<thead>
<tr>
<th>LAT</th>
<th>LONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°42.414'N</td>
<td>000°13.762'W</td>
</tr>
<tr>
<td>50°40.653'N</td>
<td>000°04.437'W</td>
</tr>
<tr>
<td>50°37.782'N</td>
<td>000°03.136'E</td>
</tr>
<tr>
<td>50°35.035'N</td>
<td>000°06.018'W</td>
</tr>
<tr>
<td>50°35.735'N</td>
<td>000°20.178'W</td>
</tr>
<tr>
<td>50°41.189'N</td>
<td>000°21.931'W</td>
</tr>
<tr>
<td>50°42.414'N</td>
<td>000°13.762'W</td>
</tr>
</tbody>
</table>

For further information, please contact: Jonathan Kerr, Email: jonathan@brownmay.com

Greater Gabbard Offshore Wind Farm – Works

The vessel ‘Leviathan’ Call sign: JESC6 is due to commence its charter between the 1st September 2013 and 1st October 2013. It is intended that the vessel will be on site for approximately 20 days. The vessel will be working at the following locations:

<table>
<thead>
<tr>
<th>Foundation ID</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGB03</td>
<td>51° 56.399'N</td>
<td>01° 52.733'E</td>
</tr>
<tr>
<td>IGB06</td>
<td>51° 56.015'N</td>
<td>01° 55.781'E</td>
</tr>
<tr>
<td>IGB01</td>
<td>51° 56.748'N</td>
<td>01° 57.005'E</td>
</tr>
</tbody>
</table>

The vessel will be subject to a standard safety zone of 500m during operations.

The vessel ‘DP Galyna’ Call sign: SDCQ and supported by ‘MCS Coromell’ Call sign: 2GMB5 will be in operation for 6 months. The vessel will remain in the GGOWF array for the duration.

For further information, please contact: Jonathan Keer, Brown & May Marine Ltd, Tel: 01379 870181 email: jonathan@brownmay.com
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 consists 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, Odin, Claudia B and Coastal Warrior will complete cable burial operations, at shallow water locations by mid-week and will depart the project. Whilst construction is taking place at these positions a 900m 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 complete cable burial operations, at shallow water locations by mid-week, and will depart the project. 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.
- The vessel Meriel D conducting site survey work, including the export cable route and array cables.
- Survey vessel Wessex Explorer, will conduct survey of export cables in the first 2 weeks of September.

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

Kingfisher Awareness Flyer: London Array Offshore Wind Farm

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

Gunfleet Sands 1 & 2 Offshore Wind Farm – Maintenance

Maintenance activity on Wind turbine A05 will be undertaken shortly. The work is planned to be undertaken between the dates of 1 September to 31 October 2013. The works will be undertaken by ‘Seapower’ a Semi-Jack up, Length x Breadth: 92 m x 22 m, Call Sign: OUVL2.

Please afford the vessel a 500m safety distance during maintenance works as the vessel will be restricted in her ability to manoeuvre.

For further information, please contact: Duncan Potter, DONG Energy, Tel: 01206 307915 email: dunpo@dongenergy.co.uk
Dogger Bank Wind Farm – Meteorological Mast

Mariners are advised that the jack up vessel Brave Tern shall begin installation of a meteorological mast within the Dogger Bank Round 3 wind farm zone.

The installation is currently scheduled for the period 9th September – 8th October.

The vessel and crew will be working on the installation activities 24 hours per day. Whilst installation of the meteorological mast is in progress, the vessel shall be stationary and unable to manoeuvre. Vessels are advised to keep a distance of at least 1nm away from the vessel.

LAT   LONG
54°52.076'N   01°49.297'E
54°52.074'N   01°49.095'E
54°51.958'N   01°49.098'E
54°51.960'N   01°49.300'E

For further information, please contact: Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891

Lynn and Inner Dowsing Offshore Wind Farms – Notice to Mariners

This Notice to Mariners informs of 1. An update to the safety zones around wind turbines within the Inner Dowsing site, and 2. Maintenance operations being undertaken on turbines

Diving Works
Diving operations are being undertaken at seven turbine locations within the Inner Dowsing wind farm. 500m Safety Zones exist around the turbines listed below. The divers will be operating from the “Gardian 10”.

1. ID03 53°12.082'N 000°25.885'E
2. ID06 53°11.213'N 000°25.887'E
3. ID12 53°12.372'N 000°26.710'E
4. ID14 53°11.793'N 000°26.711'E
5. ID18 53°10.633'N 000°26.713'E
6. ID26 53°11.214'N 000°27.537'E
7. ID29 53°10.344'N 000°27.539'E

The safety zone shall come into effect on 21 August 2013, in respect of the external diving works mentioned above within the Inner Dowsing site. The safety zones will terminate on completion of the diving works, such date to be communicated by a Notice to Mariners. A provisional date of completion is 20 September 2013.

For the avoidance of doubt, the Lynn Offshore Wind Farm Construction Exclusion Zone remains in place. Diving activities will also be taking place within the Lynn wind farm site.

Maintenance Operations
A vessel will be on site for the next 4 months, carrying out oil change operations at all wind turbines. These works will take place between the following dates 05/08/13 – 30/11/13 (inclusive). Mariners should maintain a safe clearance distance of 500 m from this vessel, when it is stationed within the wind farms.

For further information, please contact: Simon Prince: Tel: 07920 273866, Email: sprince@rssmarine.co.uk
Dudgeon Offshore Wind – Foundation Penetration Testing

Mariners are advised that vessel Acergy Viking shall begin foundation penetration testing within the Dudgeon offshore wind farm. Operations are expected to commence at the earliest on 31/08/2013 and are expected to be complete by 15/09/2013. Operations will run 24 hours per day.

The vessel shall be conducting approximately 10 penetration tests within the survey area. The vessel will remain stationary at locations for approximately 24 hours while conducting the penetration testing. Please ensure the vessel is given a wide berth.

1. 53 12.103 N,001 27.410 E
2. 53 15.872 N,001 19.282 E
3. 53 17.883 N,001 19.444 E
4. 53 14.872 N,001 25.931 E
5. 53 14.107 N,001 27.579 E
6. 53 12.101 N,001 27.407 E

For further information, please contact: Geir Milford, Subsea7, Tel +47 51 84 57 16, Mobile +47 957 39 362

Westermost Rough Offshore Wind Farm Project – Wave and Marker Buoys

MV Forth Constructor successfully deployed 2 Wave Buoys WMR 010 & WMR 020 accompanying marker buoys in the Westermost Rough Offshore Wind Farm construction area.

All vessels are requested to keep no less than 500 yards clear of the buoys and to navigate with caution in the vicinity of the marker buoys.

<table>
<thead>
<tr>
<th>Buoy Type</th>
<th>LAT</th>
<th>LONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMR 010 Wave Buoy</td>
<td>53°50.250′N</td>
<td>00°09.500′E</td>
</tr>
<tr>
<td>East Marker Buoy</td>
<td>53°50.261′N</td>
<td>00°09.577′E</td>
</tr>
<tr>
<td>West Marker Buoy</td>
<td>53°50.250′N</td>
<td>00°09.417′E</td>
</tr>
<tr>
<td>WMR 020 Wave Buoy</td>
<td>53°47.318′N</td>
<td>00°08.917′E</td>
</tr>
<tr>
<td>East Marker Buoy</td>
<td>53°47.318′N</td>
<td>00°08.909′E</td>
</tr>
<tr>
<td>West Marker Buoy</td>
<td>53°47.318′N</td>
<td>00°08.829′E</td>
</tr>
</tbody>
</table>

For further information, please contact: Lasse Hartvig Hirsch, DONG, Tel: +44(0)7879115163, email: LASH@dongenergy.co.uk
For ‘live’ Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu

**Galloper Offshore Windfarm – Redeployment of Buoys**

Redeployed location of the scientific instrumentation and associated guard buoys to alert marine users of their presence.

<table>
<thead>
<tr>
<th>Buoy</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trinity House Class II Guard Buoy A</td>
<td>51° 59.000’N</td>
<td>02° 04.800’E</td>
</tr>
<tr>
<td>Waverider</td>
<td>51° 58.820’N</td>
<td>02° 04.805’E</td>
</tr>
<tr>
<td>SmartBuoy (toroid 32)</td>
<td>51° 58.937’N</td>
<td>02° 04.811’E</td>
</tr>
<tr>
<td>Trinity House Class II Guard Buoy B</td>
<td>51° 58.664’N</td>
<td>02° 04.800’E</td>
</tr>
</tbody>
</table>

For further information, please contact: James Parker (Marine Programme Manager – Cefas), james.parker@cefas.co.uk, +44 (0) 1502 524529

**Westernmost Rough Offshore Windfarm – Sunken Vessel**

The Guard Vessel ‘Magdalene Ann SH33’ after a collision has sunk in the position below:

**Coordinates**

53°47.300’N  000°02.240’E

The vessel is not visible from the surface. All vessels are requested to keep clear of the unmarked wreckage position.

CTV Cbale Bay is presently on site and will be replaced by Guard ‘Inger Lis’

For further information, please contact: Lasse Harvig Hirsch, DONG, Tel: +44(0)7879115163  email: LASHI@dongenergy.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>
<tbody>
<tr>
<td>EON</td>
<td>1. 53°44.000’N 000°09.517’E</td>
<td>2. 53°45.917’N 000°18.433’E</td>
<td>8th July 2013 - 30th March 2014</td>
<td></td>
</tr>
<tr>
<td>Scotia W MWAM</td>
<td>3. 53°33.867’N 000°15.667’E</td>
<td>4. 53°35.767’N 000°24.583’E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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**Westermost Rough Offshore Wind** – Boulder Relocation Works

**Company, Vessel & Call Sign**

<table>
<thead>
<tr>
<th></th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV Peter Madsen Call Sign: OZDI2</td>
<td>1. 53°46.808'N 000°01.282'E</td>
<td>8th July 2013</td>
<td>8th July 2013</td>
</tr>
<tr>
<td>MV Elisabeth Hoej Call Sign: OYRQ2</td>
<td>2. 53°47.056'N 000°03.013'E</td>
<td>Throughout 2013</td>
<td>Throughout 2013</td>
</tr>
<tr>
<td></td>
<td>3. 53°47.284'N 000°04.580'E</td>
<td>9. 53°48.001'N 000°09.412'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 53°47.362'N 000°06.082'E</td>
<td>10. 53°47.582'N 000°10.830'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. 53°48.586'N 000°06.123'E</td>
<td>11. 53°50.092'N 000°09.589'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. 53°47.627'N 000°07.394'E</td>
<td>12. 53°48.952'N 000°10.976'E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7. 53°46.789'N 000°08.522'E</td>
<td>13. 53°48.041'N 000°11.744'E</td>
<td></td>
</tr>
</tbody>
</table>

*For further information, please contact:* Lasse Hartvig Hirsch, Westermost Rough Ltd, Email: LASHH@dongenergy.dk
For ‘live’ Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu

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>1. 53°50.575’N 0°09.615’E</td>
<td>12th June 2013 - 30th September 2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. 53°47.982’N 0°12.743’E</td>
<td>For 2 days per week</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 53°46.131’N 0°08.365’E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 53°48.722’N 0°05.235’E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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 02° 53.680’E</td>
<td></td>
</tr>
<tr>
<td>Waverider</td>
<td>52° 36.320’N 02° 46.490’E</td>
<td></td>
</tr>
<tr>
<td>AWAC</td>
<td>52° 52.390’N 02° 53.730’E</td>
<td></td>
</tr>
<tr>
<td>AWAC</td>
<td>52° 33.350’N 02° 46.430’E</td>
<td></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.

<table>
<thead>
<tr>
<th>Location</th>
<th>LAT</th>
<th>LONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW</td>
<td>50°22.873’N</td>
<td>05°37.567’W</td>
</tr>
<tr>
<td>Mid West</td>
<td>50°21.888’N</td>
<td>05°37.567’W</td>
</tr>
<tr>
<td>SW</td>
<td>50°21.107’N</td>
<td>05°37.390’W</td>
</tr>
<tr>
<td>SE</td>
<td>50°20.805’N</td>
<td>05°35.779’W</td>
</tr>
<tr>
<td>Mid East</td>
<td>50°22.855’N</td>
<td>05°36.025’W</td>
</tr>
</tbody>
</table>

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)
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.

Construction
Divers from the Dive Support Vessels 'Terramare 1' and 'HBC Supporter' will operate as and when required inside of the WoDS Wind Farm perimeter, inside the Walney 1&2 and Barrow Wind Farm perimeters and along the Export Cable Routes and mariners should note that a minimum 500 meter Safety Exclusion Zone will be in force around these vessels at all times whenever they are on site at any location.

Export Cable Lay
Cable Lay vessel 'Stemat Spirit' is at the Sub-Station for the cable pull in and will shortly start the cable lay and burial of the Northern Cable in to the splice position at KP9. Mariners are requested and advised to keep a wide berth of at least 1,000 meters around 'Stemat Spirit' during the Export Cable Lay operations. Two support vessels accompany her, these are 'Coastal Vanguard' and 'Nova K'.

Stemat 89 – Anchor Positions
The Cable Jointing Vessel 'Stemat 89' is now anchored close to the K9 splice position at:

<table>
<thead>
<tr>
<th>Anchor Number</th>
<th>POSITION</th>
<th>Anchor Number</th>
<th>POSITION</th>
<th>Anchor Number</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>53°58.30N 03°01.55W</td>
<td>3</td>
<td>53°59.28N 03°00.38W</td>
<td>0</td>
<td>53°59.33N 03°02.15W</td>
</tr>
<tr>
<td>2</td>
<td>53°59.52N 03°01.20W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Cable Jointing Vessel 'Stemat 89', accompanied by support vessels Torsten (Tug) and Tessa W (Multicat) is now anchored just outside and to the NW of the WoDS Wind Farm, clear of the West Cardinal Buoy Q(9) 15s and clear of any shipping lane. 'Stemat 89' will act as accommodation vessel for the Export Cable teams working from 'Stemat Spirit'.

The Northern export cable has been laid and buried from the landfall position at Middleton Sands out to the jointing position at KP9. The Southern export cable has been laid and buried from Middleton Sands all the way to the Sub-Station. There are positions of exposed cable as detailed below:

1. The Barrow Export Cable crossing and the splice lay down position at KP9, Heysham lake/Lune Deep area, which are being guarded by the Guard Vessel 'Headway'.

2. The WALNEY 2 Export Cable crossing and the two gas pipeline crossings, just to the north of Barrow Wind Farm, which are being guarded by the Guard Vessel 'Temeraire'.

Both of these vessels will keep a listening watch on VHF Channels 16 & 12 and can be contacted for information on the exposed cable positions only, 'Headway' will also monitor VHF Channel 14

Boundary of Location Activities:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>54°00.15N</td>
<td>003°33.52W</td>
</tr>
<tr>
<td>54°01.78N</td>
<td>003°26.67W</td>
</tr>
<tr>
<td>53°58.35N</td>
<td>003°22.80W</td>
</tr>
<tr>
<td>53°56.64N</td>
<td>003°25.37W</td>
</tr>
<tr>
<td>53°56.72N</td>
<td>003°29.33W</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
Barrow Offshore Wind Farm – Maintenance Work – Remedial Painting

Please note, the programme of remedial painting at the B.O.W. Sub-Station platform is ongoing. It is expected to be completed by 25th September 2013, depending on weather and conditions. The Bay Towage vessel ‘Argus-G’ will transport the maintenance crew out and back on a daily basis.

All of the Turbines at the BARROW OFFSHORE WIND FARM are operational and switched to automatic providing power to the National Grid. 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.

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 Rhyl Flats offshore wind farms. The consented site covers an area of 124km². The water depth ranges from 12m to 28m LAT with a tidal range of 8.5m.

Wind Farm Construction Status
- Monopiles: 160 installed. Monopile installation is now complete.
- Transition pieces: 127 installed, 33 remaining.
- Export cables: 4 export cables installed; installation is now complete.
- Array cables: 21 installed, 140 remaining.
- Wind Turbine Generators: 62 installed, 98 remaining.

Work planned for next 7 days
- Friederich Ernestine and support vessels will continue with foundation installation and will make a port call this week (date tbc).
- Stanislav Yudin and support vessels Bremen Fighter and Smit Angola will continue with foundation installation duties
- Wind Solution will remain at anchor position to the south of Gwynt y Môr
- Sea Jack and Sea Worker turbine installation vessels will continue with wind turbine installation
- Penrhyn Bay, Colwyn Bay, Caernarfon Bay, Porth Dinllaen, Porth Diana, EMS Viking, Gardian, Gardian 2, Gardian 10, Gallion, Chinook, Scirocco and Endurance will be utilised as Crew Transfer Vessels when required sailing from Liverpool Marina and Canada Dock 3.
- Penhos Bay & Tremadoc Bay will provide 24 hour Emergency Rescue Team cover.
- Polar Prince will continue with cable laying operations
- Isadale will continue performing guard duties and will be used as the Marine Mammal Observation vessel as and when required.
- JB114 will continue with drilling operations at Gwynt y Môr wind farm.
- Union Fighter, UR7 & UR3 will continue to deliver components to the Stanislav Yudin as required.
- Smit Buffalo and Smit Bulldog will continue moving barges around the wet basin for loading of components for Stanislav Yudin.
- South Stack will continue diving operations including work with the Polar Prince to aid installation of array cables.
- Normand Tonjer will continue diving operations including work with the Polar Prince to aid installation of array cables.
- South Stack will continue diving operations at various turbine locations.
- Penkos Bay & Tremadoc Bay will provide 24 hour Emergency Rescue Team cover.
- Normand Tonjer will continue diving operations including work with the Polar Prince to aid installation of array cables.
- South Stack will continue diving operations at various turbine locations.
- Polar Prince will continue with cable laying operations.
- Isadale will continue performing guard duties and will be used as the Marine Mammal Observation vessel as and when required.
- JB114 will continue with drilling operations at Gwynt y Môr wind farm.
- Smit Buffalo and Smit Bulldog will continue moving barges around the wet basin for loading of components for Stanislav Yudin.
- Union Fighter, UR7 & UR3 will continue to deliver components to the Stanislav Yudin as required.

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.comwell@rwe.com
Burbo Bank Offshore Wind Farm – Operations

The self-propelled Jack-up Rig 'Pacific Osprey' is at Turbine position BB35 carrying out some component changes. The support vessel 'Sea Breeze' as well as the crew transport/support vessel 'Samson B' are in Liverpool but will return to site shortly.

The programme of work exchanging some components at selected Turbines positions is expected to last approx. 5 weeks, depending on weather.

The Wind Turbines that will be visited by the Pacific Osprey will be:

1. Turbine BB35 53°29.52’N 003°11.07’W
2. Turbine BB23 53°28.90’N 003°10.90’W
3. Turbine BB15 53°28.90’N 003°12.22’W
4. Turbine BB14 53°28.88’N 003°11.85’W
5. Turbine BB33 53°29.12’N 003°10.32’W
6. Turbine BB25 53°29.30’N 003°11.65’W

A 500 meter Safety Zone is requested around 'Pacific Osprey' at all times while on site.

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

Walney 1, 2 & Extension Offshore Wind Farm – Construction Activity / Consultation

With reference to the Kingfisher ‘flyer’, all mariners should note that turbine C09 is now unlit and turbine A14 exhibits fly 5s (sync) light characteristics. The south cardinal buoy has now been removed.

The self-propelled Jack-up Rig 'Pacific Osprey' has now completed work at the Walney Wind Farm and will leave to carry out some lifting operations and component changes at the Burbo Bank Wind Farm.

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

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

**Kingfisher Awareness Flyer: Ormonde Offshore Wind Farm**

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

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**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.

- **North Mast Special Mark**
  - **Latitude**: 53°51.600’N
  - **Longitude**: 003°17.700’W
- **South Mast Special Mark**
  - **Latitude**: 53°51.600’N
  - **Longitude**: 003°17.700’W

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:
  - **North Mast**: 53°52.423’N 003°12.133’W
  - **South Mast**: 53°51.600’N 003°17.663’W

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