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 – Survey Activities

Please be advised that Brown and May Marine Ltd will be carrying out marine survey operations on behalf of Beatrice Offshore Windfarm Limited (BOWL) in the outer Moray Firth. The survey will include larval sampling at 25 locations.

<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>Brown &amp; May MV Antaries BF27 ZNOV6</td>
<td>1. 58°39.058’N  003°20.673’W</td>
<td>4th August 2014 For 8 Weeks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. 58°38.936’N  002°11.958’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 58°03.124’N  002°12.977’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 58°03.127’N  003°20.326’W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: marc Browns, Brown & May Marine Ltd, Tel: 07880180652 email: marc.browne@sserenewables.com

Moray Offshore Renewables Limited – Met Mast Works

Please be advised that Drace Infraestructuras UK Ltd is undertaking seabed preparation work for the installation of a meteorological mast for the Moray Offshore Renewables Limited (MORL) offshore wind farms. This work is being undertaken in support of the development of The Crown Estate Round 3 Zone 1 offshore wind licensing on the outer Moray Firth off the East coast of Scotland.

A navigation buoy will be installed on the 16th or 17th July prior to the construction of a subsea berm. The installation of the marker buoy will be carried out by the Multicat “ORCADIA” and will take approximately one day. The ORCADIA is 24 m overall length with a Gross Register Tonnage (GRT) of 115.90 tonnes. The Vessel’s call sign is 2EWK4, she will operate from Invergordon for the duration of the work.

Other vessels should maintain an appropriate and safe distance when passing ORCADIA and should pass at lowest possible speed to avoid vessel wash effects. The navigation buoy lighting will be configured as a Special Mark (flashing yellow, 1 flash every 5 seconds, nominal range 5 nm visibility).

Subsea Berm Construction

A bedding and levelling layer embankment is to be installed by the deposition of quarry run aggregate material. The dimensions of the embankment will be 49.8m x 47.9m x 1.7m (top at -38m LAT). Prior to the commencement of these works a surface marker navigation buoy is to be positioned at a point 300m North of the Northernmost corner of the embankment (i.e.300m North of Corner 2).

Construction of the berm is expected to begin during the week of 6th August 2014 and will continue for a period of approximately 23 days. The construction of the berm will be done by the Bulk Carrier “Nordnes”. The Nordnes is 167 m overall length with a Gross Register Tonnage (GRT) of 18,226 tonnes. The Vessel’s call sign is PHOG, she will operate from Invergordon for the duration of the work.

Other vessels should maintain an appropriate and safe distance when passing Nordnes and should pass at lowest possible speed to avoid vessel wash effects.

For further information, please contact: John Yorston, Moray Offshore Renewables, Tel: 0131 5567602 / 07557635096 email: john.yorston@edr.com
Vessel contact Details: Bridge – 077920024164 email: orcadia@scotmarine.net  Bridge: +31 88 8263825 email: Nordnes.ocm@vanoord.com
Neart na Gaoithe Offshore Wind Farm and Cable Route – Geophysical Survey

Please note a geophysical survey is to be carried out at the proposed Neart na Gaoithe Offshore Wind Farm and cable route. The cable route survey is taking place within a 150m corridor either side of the cable route, i.e. 300m total survey corridor width, and is located in very shallow water within 1.5 km of Thorntonloch beach.

The vessels carrying out the geophysical investigations are yet to be confirmed. The surveys are expected to commence on the 11th August 2014 at the earliest and be completed within approximately 14 days (weather dependent).

Wind Farm Site FID:
1. 56°15.271'N  002°09.898'W  5. 56°15.479'N  002°19.628'W  9. 56°20.312'N  002°16.518'W
3. 56°12.752'N  002°13.998'W  7. 56°17.430'N  002°20.232'W
4. 56°12.766'N  002°16.293'W  8. 56°19.752'N  002°17.826'W

Cable Route Coordinates:
1. 55°57.665'N 002°23.641'W
2. 55°57.800'N 002°22.600'W
3. 55°58.007'N 002°22.548'W

For further information, please contact: Rosie Scurr. Tel: +44 (0)141 206 3864 or +44 (0)7967445717 Email: rosie.scurr@mainstreamrp.com

Neart na Gaoithe Offshore Wind Farm – Geotechnical Survey

Please note a geotechnical borehole survey is to be carried out at the proposed Neart na Gaoithe Offshore Wind Farm.

The geotechnical investigations are expected to commence on the following dates, with the following vessels: the MV Fugro Commander on the 2nd August 2014, and the MV Highland Eagle on the 5th August 2104. The survey is expected to be completed by, approximately the 30th September 2014.

Wind Farm Site FID:

<table>
<thead>
<tr>
<th>1. 56°15.271'N 002°09.898'W</th>
<th>5. 56°15.479'N 002°19.628'W</th>
<th>9. 56°20.312'N 002°16.518'W</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. 56°12.752'N 002°13.998'W</td>
<td>7. 56°17.430'N 002°20.232'W</td>
<td></td>
</tr>
<tr>
<td>4. 56°12.766'N 002°16.293'W</td>
<td>8. 56°19.752'N 002°17.826'W</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Rosie Scurr. Tel: +44 (0)141 206 3864 or +44 (0)7967445717 Email: rosie.scurr@mainstreamrp.com
Neart na Gaoithe Offshore Wind Farm – Metocean Buoy Deployment

On the 20th April 2014, Neart na Gaoithe Offshore Wind Limited deployed two metocean buoys at their offshore Wind Farm site approximately 21km east of the Fife coast. Please find location details below. The buoys measure (1) wind speed and direction and (2) waves and currents; both buoys are deployed alongside each other.

Both buoys are painted to IALA standard, have an amber navigation light set to flash 5 times at 1Hz every 20 seconds.

Buoy (1) is moored using two delta flipper anchors with riser chains (max. 250m each). There are two pennant buoys floating on the surface above each of the two seabed anchors associated with the buoy. The pennant buoys are yellow, 1m long, diameter of 0.5m and are unlit. They are attached to the anchors by steel wire. Buoy (2) is moored via a single bungee line.

The buoys will be deployed within the Neart na Gaoithe Wind farm boundary, at the following co-ordinates:

(1) 56°15.762’N 02°15.011’W – 92m drift radius (anchors marked with pennant buoys at 56°15.875’N 02°15.032’W and 56°15.654’N 02°15.029’W)
(2) 56°15.766’N 02°15.203’W – 82m drift radius

Please note requirement for wide berth when passing buoys detailed below due to their large excursion as a result of their mooring configurations.

The buoys were deployed on 20th April 2014 and are expected to stay in place for up to 12 months (until approx. 20th April 2015).

For further information, please contact: Keith Harsham, Tel: +44(0)20 77765515 Mob +44(0)7876454649 email: Keith.Harsham@mainstreamrp.com

Outer Moray Firth – Survey Activities

Mariners are advised that Calegeo will be carrying out geotechnical survey operations on behalf of Moray Offshore Renewables Limited (MORL) in the outer Moray Firth, as part of the Moray OWF project.

<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>
Inch Cape Offshore Limited – Met Mast Works

Please be advised that Drace Infraestructuras UK Ltd is undertaking, on behalf of Inch Cape Offshore Limited, seabed preparation work for installation of a met mast.

The Works

Marker Buoy
The installation of a marker buoy was undertaken in July 2014 and will be in place until further notice. The marker buoy lighting is configured as a Special Mark (flashing yellow, 1 flash every 5 s, nominal range 5nm visibility).

UXO Survey
Additional UXO survey works will be carried between 31st July and 8th August prior to the construction of a subsea berm. These works will be performed by the Montrose Marine II Call Sign: 2GMK3 and will take approx. 2 days.

Bathymetry survey & Subsea Berm Construction
Prior to the embankment construction a bathymetry survey is going to be carried out by the NORDES. A bedding and levelling layer embankment is to be installed by the deposition of quarry run aggregate material. The dimensions of the embankment will be 68.52m x 69.8m x 2.0m (top at +47 m LAT). Prior to the commencement of these works a surface marker navigation buoy is to be positioned at a point 300 m grid North of the Northernmost corner of the embankment (i.e.300 m North of Corner 3).

The details of the vessel carrying out the work are: Nordnes Call Sign: PHOG

Construction of the berm will begin at the earliest on 4th August 2014 and continue for a period of approximately 20 days. Details of the installation vessel will be released in a following notice to mariners.

For further information, please contact: Mr O Larsson, Drace Infraestructuras UK Ltd, Tel: 01349 852 308
National Grid Carbon Limited – Capturing carbon dioxide in the Yorkshire and Humber Region Section 56 – Planning Act 2008 Regulation 9

Regulation 9, The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Notice is hereby given that the Secretary of State has accepted an application ("the Application") made to him by National Grid Carbon Limited ("National Grid") of 1-3 Strand London WC2N 5EH for a Development Consent Order ("DCO") under the Planning Act 2008. The Application was submitted by National Grid to the Secretary of State, c/o The Planning Inspectorate ("PINS"), on 18 June 2014 and was accepted on 16 July 2014. The PINS application reference number is EN070001.

The Application relates to a cross country pipeline for the transportation of captured carbon dioxide and associated development in the Yorkshire and Humber region from a point near Drax in North Yorkshire to a point near Barmston on the Holderness Coast in East Riding of Yorkshire.

The project includes work in the intertidal zone and will connect to an offshore pipeline which is to be consented under a separate planning regime at a later date.

The full notice can be viewed at:

http://nationalgrid.opendebate.co.uk/files/REG_9_NG_CCS_SOCC_SS6_Public_Notice_340mmhx265mm_HR_Reg.9.pdf

For further information, please contact: Jack Organ, Camargue, Tel: +44(0)20 7636 7366 email: jorgan@camarguepr.com

Hornsea Offshore Windfarm Limited – UXO Survey Activities

Mariners are advised that a UXO survey will be conducted over three Foundation Trial Installation Sites located within the Hornsea Offshore Wind Farm.

<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>Fred Olsen Windcarrier</td>
<td>1. 53°50.526’N 002°02.761’E&lt;br&gt;2. 53°53.775’N 002°04.487’E&lt;br&gt;3. 53°52.415’N 001°55.448’E&lt;br&gt;4. 53°53.104’N 001°59.412’E</td>
<td>1st August 2014&lt;br&gt;For 2 Days</td>
<td></td>
</tr>
<tr>
<td>MV Ivero PCKA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Hakon Halseth Johannessen, Fred Olsen Windcarrier, Tel: +47 22 341390 email: hha@windcarrier.com
Humber Gateway Offshore Wind Farm – Foundation Installation Phase 1

Please be advised that E.ON will be installing 24 Wind Turbine Foundations approximately 10 miles offshore from Spurn Head, within the Humber Gateway Offshore Wind Farm.

Boulder Removal Phase 3:
Atlantic Explorer: The Boulder removal operation has now been completed.

Array Cable Installation
Atlantic Carrier: Next cables to be installed B07-B06, B06-B05, A09-A07, and A07-A06 Whalsa Lass: AHT for Carrier.

Project Wave Riders
Tri-axe has been recovered for repairs and will be redeployed in the same position this week.

**Important Locations:**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Lat</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet Storage of Anchors</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Met Mast</td>
<td>53°38.237'N 00°15.735'E</td>
</tr>
<tr>
<td></td>
<td>West Cardinal Lighted Buoy (N)</td>
<td>53°39.200'N 00°14.200'E</td>
</tr>
<tr>
<td></td>
<td>West Cardinal Lighted Buoy (S)</td>
<td>53°37.000'N 00°15.600'E</td>
</tr>
<tr>
<td></td>
<td>South Cardinal Lighted Buoy</td>
<td>53°36.500'N 00°17.400'E</td>
</tr>
<tr>
<td></td>
<td>East Cardinal Lighted Buoy (S)</td>
<td>53°38.400'N 00°20.100'E</td>
</tr>
<tr>
<td></td>
<td>East Cardinal Lighted Buoy (N)</td>
<td>53°40.300'N 00°20.100'E</td>
</tr>
<tr>
<td></td>
<td>Wave rider No 1</td>
<td>53°39.930'N 00°18.160'E</td>
</tr>
</tbody>
</table>

Export Cable End Markers (Both cable ends have now been laid on the seabed. Please note a 800m exclusion zone has been implemented around the duct ends to protect the surface laid cable.

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

Race Bank Offshore Wind Farm – Extinguished Aids to Navigation

Please be advised that Dong wishes to make all mariners aware that the two lighted beacons on the platform of the former Race Bank Met Mast Are extinguished.

**Additional caution should be exercised when in the vicinity of this platform. DONG Energy expects to repair or replace the AtoNs as soon as possible. A guard vessel will be mobilized to the vicinity of the platform as soon as practicable.**

Mariners are strongly advised to give the platforms a wide berth of at least 250m.

**For further information, please contact:** Nigel Proctor, Marine Projects Manager, Tel: 01964 624423 email: n.proctor@precisionmarine.co.uk
London Array Wind Farm – Diving and Construction Works

Construction works at London Array Offshore Wind Farm are complete and the wind farm is operational. However, remedial construction works are required at a number of turbines and inter array cable locations.

In order to avoid damage to the wind farm assets whilst remedial construction is conducted at London Array the following guidelines should be adhered to:

- Safety Exclusion Zones remain in operation for October 2013 and will be reinstated in March 2014 through to November 2014. This means an enforceable 50m safety zones from each turbine and 500m safety zones from a construction vessel will be in operation for this period.
- Between October 2013 and November 2014 an advisory 100m safety zone should be observed around each turbine and offshore substation due to the risk of exposures of array cable ends at foundations whilst remedial works are on-going.
- Cable reburial is required at the following locations and as such these areas should be avoided in totality.

<table>
<thead>
<tr>
<th>Location</th>
<th>Coordinates</th>
<th>Length of Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location 1</td>
<td>51°35.149'N 001°27.963'E</td>
<td>20m</td>
</tr>
<tr>
<td>Location 2</td>
<td>51°35.447'N 001°31.478'E</td>
<td>8m</td>
</tr>
<tr>
<td>Location 3</td>
<td>51°36.553'N 001°20.513'E</td>
<td>7m</td>
</tr>
<tr>
<td>Location 4</td>
<td>51°38.153'N 001°26.331'E</td>
<td>5m</td>
</tr>
<tr>
<td>Location 5</td>
<td>51°37.038'N 001°28.851'E</td>
<td>8m</td>
</tr>
<tr>
<td>Location 6</td>
<td>51°41.232'N 001°29.899'E</td>
<td>5m</td>
</tr>
<tr>
<td>Location 7</td>
<td>Start: 51°37.954'N 001°26.029'E End: 51°38.412'N 001°25.904'E</td>
<td>926m</td>
</tr>
<tr>
<td>Location 8</td>
<td>Start: 51°41.429'N 001°30.882'E End: 51°41.115'N 001°30.397'E</td>
<td>865m</td>
</tr>
</tbody>
</table>

- Care should be taken within the wind farm site to avoid snagging array cables. Although not expected, natural seabed variation may reduce the depth of burial over buried cables without London Array’s immediate knowledge.
- Snagging cables not only poses a risk to health and safety but could also cause a serious risk of damage to wind farm assets.

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

Dudgeon Offshore Windfarm – Benthic Ecology Survey

A benthic ecology survey will be undertaken on board the survey vessel MV Ocean Dawn. The vessel will deploy a benthic grab sampler and drop down video directly to the seabed from the stern of the vessel. In addition, a 2m beam trawl will be deployed at selected locations and will be towed for a distance of approximately 500m on the seabed at up to ten locations.

<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: Jo Weir, Fugro, Tel: 02392 205543 email: jo.weir@fugroemu.com
East Anglia Offshore Windfarm – Survey Activities

East Anglia Offshore Wind Ltd has contracted Fugro to carry out geotechnical and geophysical site investigation for the proposed East Anglia One Windfarm site and Export Cable route Corridor.

<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: Vicki Griffiths, Fugro, Tel: +44(0)1491 820696 email: v.griffiths@fugro.co.uk

Sheringham Shoal Wind Farm – Malfunction of Lights

The following items relating to sign lighting are not functional within Sheringham Shoal Wind Farm. Sign lights are not navigational aids and are not to be used as such.

On 9th July 2014 the IMR (Inspection Maintenance Repair) vessel “Rem Ocean” is expected to arrive in the Sheringham Shoal Wind Farm to undertake some essential retrofit operations throughout the site. If weather is unsuitable for transit or safe working window time is not met, this arrival date may be delayed.

She will navigate onto the wind farm site through the North-East entry/exit gate between WTG (wind turbine generator) ShS (Sheringham Shoal) F1 in 53°09.662N 001°07.852E and WTG ShS K5 in position 53°07.196N 001°12.011E.

The vessel is expected to remain on site for 4-6 weeks, but will be regularly transiting to and from Great Yarmouth for the collection of materials. All entering and exiting site will be done through the North-East entry/exit gate.

All vessels are to give “Rem Ocean” a 500m exclusion zone and to call the vessel on CH10 to request entry or transit through the exclusion.

<table>
<thead>
<tr>
<th>Location Position</th>
<th>ID Config</th>
<th>Defect</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS1 53°08.648’N 001°07.236’E</td>
<td>4 ID Boards around transition piece each with 3 lights (total 12 lights)</td>
<td>East ID light board, left bulb of 3 unlit West ID light board, right bulb of 3 unlit North ID light board, centre bulb of 3 unlit</td>
</tr>
<tr>
<td>OS2 53°07.602’N 001°10.549’E</td>
<td>4 ID Boards around transition piece each with 3 lights (total 12 lights)</td>
<td>North West ID light board, right bulb of 3 unlit</td>
</tr>
<tr>
<td>H6 53°07.194’N 001°10.482’E</td>
<td>3 ID Boards around transition piece.</td>
<td>South East ID light board is unlit</td>
</tr>
</tbody>
</table>

For further information, please contact: Gary Lorimer, Statkraft, Tel: +44 (0)1328 824356 email: Gary.Lorimer@statkraft.com
For ‘live’ Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu

First Published: 27 June 2012 | Latest Update: 16 June 2014

Lincs Offshore Wind Farm – Aids to Navigation Outage

Lincs Offshore Wind Farm wishes to Advice Mariners that all Aids to Navigation are now operational on the Lincs Offshore Wind Farm Site.

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 and 500m from any works underway within the site.

Mariners are advised that all 75 x WTG’s have now been successfully completed. However, 50m safety zones remain in place around all turbine structures until further notice whilst final commissioning works take place.

The locations and specification of the 8 permanent navigation aids, is shown below.

<table>
<thead>
<tr>
<th>Turbine N°</th>
<th>Position</th>
<th>Permanent Marine Navigation Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS01</td>
<td>53°14.475N 000°27.569'E</td>
<td>(F Y bs) and Fog Horn</td>
</tr>
<tr>
<td>LS05</td>
<td>53°13.069N 000°28.162'E</td>
<td>(F Y bs)</td>
</tr>
<tr>
<td>LS13</td>
<td>53°09.451N 000°28.303'E</td>
<td>(F Y bs)</td>
</tr>
<tr>
<td>LS33</td>
<td>53°07.122N 000°29.403'E</td>
<td>(F Y bs)</td>
</tr>
<tr>
<td>LS52</td>
<td>53°14.843N 000°30.010'E</td>
<td>(F Y bs) and Fog Horn</td>
</tr>
<tr>
<td>LS59</td>
<td>53°12.451N 000°31.016'E</td>
<td>(F Y bs) and Fog Horn</td>
</tr>
<tr>
<td>LS64</td>
<td>53°10.803N 000°31.047'E</td>
<td>(F Y bs)</td>
</tr>
<tr>
<td>LS69</td>
<td>53°09.088N 000°31.048'E</td>
<td>(F Y bs) and Fog Horn</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: Angela Wilcock, RSS Marine, Tel: 0723 893930  email: awilcock@dsml.co.uk

10 of 15
Navitus Bay Wind Park – Survey Activities

Please be advised that Horizon Geosciences will be performing site investigation works on behalf of Navitus Bay Development Limited.

<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>Horizon Geosciences</td>
<td></td>
<td>19 July 2014</td>
<td></td>
</tr>
<tr>
<td>Horizon Geobay (Call Sign: 3ETG2)</td>
<td>1. 50°33.897’N 001°43.879’W</td>
<td>For 3 to 4 Weeks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. 50°33.882’N 001°42.484’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 50°32.985’N 001°40.786’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 50°24.881’N 001°40.277’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. 50°23.605’N 001°50.335’W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. 50°28.024’N 001°51.276’W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Horizon Geosciences Tel: +44(0)117 329 1080 email: enquiries@horizon-geosciences.com

North Cornwall – Wave Hub

Please be advised that Seatricity have completed the installation and commissioning of their Oceanus 2 wave energy device.

<table>
<thead>
<tr>
<th>Working Area</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW Corner Berth 1</td>
<td>50°20.759’N 005°36.693’W</td>
</tr>
<tr>
<td>NW Corner Berth 1</td>
<td>50°21.000’N 005°36.760’W</td>
</tr>
<tr>
<td>NE Corner Berth 1</td>
<td>50°21.068’N 005°36.343’W</td>
</tr>
<tr>
<td>SE Corner Berth 1</td>
<td>50°20.801’N 005°36.277’W</td>
</tr>
<tr>
<td>Oceanus 2 Target Position</td>
<td>50°20.834’N 005°36.651’W</td>
</tr>
<tr>
<td>Wave rider Buoy Target Position</td>
<td>50°20.966’N 005°36.650’W</td>
</tr>
</tbody>
</table>

The trials are planned for up to one year ending May 19th 2015.

Mariners should exercise caution when navigating in the vicinity:

- Vessels should not attempt approach the device (<500m) and could risk collision/entanglement within 50m due to submerged aluminium buoyancy on the positional mooring lines and in rough seas the device may even submerge at times.
- The Seatricity working area and site is defined as follows and it is requested that mariners give this area a wide berth (>300m) during ongoing operations in support of the trials:

For further information, please contact: David Stoddart-Scott, Seatricity Ltd, Tel: 07976593775 email: david.stoddardscott@seatricity.net
North Wales Demonstration Zone – West Of Anglesey

Bangor University proposes the following cruise activities to include the North Wales Demonstration Zone, west of Anglesey. Shoreward of 04°47.450'W, south and north of 53°17.933'N and 53°12.767'N, respectively.

Wave buoy deployment: A wave buoy will be deployed at approx. 04°39.450'W 53°12.867'N. This will make up part of the Wavenet wave buoy network and will be deployed indefinitely.

ADCP deployment: 3 trawl-proof, bottom mounted ADCPs are to be deployed within the Demonstration Zone. Approximate co-ordinates are: 04°42.600'W 53°13.683'N, 04°44.333W 53°16.900N and 04°43.917'W 53°15.033N. Estimated deployment length of 2 months.

Sediment grab sampling:
A number of sediment grab samples will be taken using a Shipeck grab sampler, shoreward of the 20 m depth contour, between 04°34.627'W 53°12.987'N and 04°41.089'W and 53°17.794'N. Further grab samples will be taken within the North Wales Demonstration Zone.

Multibeam: multibeam surveying within the entire cruise location.

Cruise Dates: 11th - 15th August 2014: Vessel to be used: RV Prince Madog

For further information, please contact: Sophie Ward, SEACAMS, Tel: 44 (0)1248 383978 email: sophie.ward@bangor.ac.uk

Walney 3 Offshore Wind Farm – Geotechnical Ground Investigation

The DP vessel ‘HIGHLAND EAGLE’ is on site but is experiencing difficulty in retrieving her ‘Seabed Drilling Frame’ and therefore has very limited manoeuvrability.

While on site ‘Highland Eagle’ and Fugro Commander’ will keep a listening watch on VHF Channels 16 & 12 and can be contacted by VHF for information relating to vessel movements only. This Geotechnical Ground Investigation consists of a combination of Deep Boreholes with Cone Penetration Testing (CPT’s) at selected positions as well as shallow Vibracore and adjacent CPT’s.

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
West of Duddon Sands Offshore Wind Farm – Export Cable Repair

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

The cable repair barge ‘Vetag 8’ along with the two support tugs ‘Mts valiant’ and ‘Multrasalvor 3’ are in Liverpool to mobilize and can be expected to arrive on site shortly in the Lune deep/Heysham lake area to repair the damaged West of Duddon sands export cable.

The repair will be in the inter-tidal area out from the landfall position at Middleton Sands between the positions:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>54°00.597’N</td>
<td>002°55.477’W</td>
</tr>
<tr>
<td>54°00.472’N</td>
<td>002°56.368’W</td>
</tr>
</tbody>
</table>

‘Vetag 8’ accompanied by the two support tugs and using a spread of 8 anchors will first anchor at kp 1.6 (start position), the barge will be grounded at low tide. A wide berth, minimum 500 meters, is requested around ‘Vetag 8’ at all times while on site as the barge will have a wide spread of 8 anchors and passing vessels are requested to reduce speed if possible.

Vessels will keep a listening watch on vhf channels 16 & 14 and can be contacted for information relating to vessel movements only.

Construction
All Turbines have been installed.

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°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

Ormonde Offshore Wind Farm – Maintenance Programme

The Self Propelled Jack-up Barge ‘Neptune’ is on site at the Ormonde wind farm and continuing with the maintenance and inspection works at selected Turbine positions.

This programme of work is expected to last for approx. mid September and is not expected to interfere with any other vessel.

A 500 meter Safety Exclusion Zone is requested around ‘Neptune’ at all times and especially when it can be observed that the vessel is afloat and manoeuvring into position.

‘Neptune’ will move to a new Turbine position within the Wind Farm or exit without prior notification.

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

The cable maintenance vessel ‘Ndurance’ will be commencing operations at the Gwynt y Mor Offshore Wind Farm from circa 10th June 2014 and works are expected to last approx 6 weeks.

The position of the vessel will be centred upon: 53°26.700’ N 003°33.600’ W

During this period, the vessel will require a wide berth of 500m at all times and can be contacted on VHF channel 16 or DIGIpool 1.

The survey vessel ‘RRS Ernest Shackleton’ will be commencing survey operations at various locations at the Gwynt y Mor Offshore Wind Farm from 30th May 2014 until further notice. Whilst engaged in survey operations within the boundary of the Gwynt y Mor Offshore Wind Farm, the vessel will require a wide berth and can be contacted on VHF channel 16 as well as DIGIpool 1.

Wind Farm Construction Status

- **Monopiles**: 160 installed. Monopile installation is complete.
- **Transition pieces**: 160 installed. Transition piece installation is complete.
- **Export cables**: 4 export cables installed; installation is complete.
- **Array cables**: 119 array cables installed, 42 remaining.
- **Array strings**: 10 array strings installed, 6 remaining.
- **Wind Turbine Generators**: 160 installed, 0 remaining.

Work planned for next 7 days

- **Wind Solution** will remain at anchor position to the south of Gwynt y Môr, sailing into Liverpool for shelter as required
- **Gardian 10, Abersoch Bay, Porth Eilian, Chinook, Scirocco, Gardian, EMS Viking, Santa Ana, Sea Storm, Bayard 2 and Bayard 5** will be utilised as Crew Transfer Vessels when required sailing from Canada Dock 3 and Liverpool Marina.
- **Penrhyn Bay, Gaillion, Caemarfon Bay, Gardian 2, Iceni Defiant, Adventure, Kinnel Bay, Buzzard, Captain P, Aberdaron Bay, Iceni Victory, Gardian 14, NSL Discovery and Kitty Petra** will sail from the Port of Mostyn as required.
- **Abersoch Bay & Tremadoc Bay** are on 24 hour cover and being utilised by the Emergency Rescue Team sailing from RWE Pontoon Birkenhead.
- **Isadale** will continue performing guard duties and will be used as the Marine Mammal Observation vessel as and when required.
- **Channel Chieftain VII, Cwind Challenger and Cwind Resolution** will continue refuelling operations on site based from Mostyn.
- **Polar King** will continue array cable installation (see notice to mariners here) assisted by CTVs Rix Panther and Rix Tiger.
- **Polar Prince** will be in dry dock, returning in late July / early August
- **DSV Red7 Tonjer** will continue with diving operations.
- **Sea Comfort**, a small accommodation vessel will join the project.

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](http://www.kingfishercharts.org)

For further information, please contact: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: lee.comwell@rwe.com
Robin Rigg Offshore Wind Farm – Return of Power

Part of the current Maintenance Programme at the ROBIN RIGG WIND FARM will involve some High Voltage maintenance on the Eastern section of the WIND FARM.

Return of power

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

Welsh Coast Llyn Peninsula – Deployment Operations

Bangor University proposes to deploy two bottom mounted ADCP devices in trawl proof frames (requiring no surface markers or beacons) at the following approximate locations:

52°47.851'N 004°46.937'W
52°44.970'N 004°43.488'W

To conduct ship mounted ADCP and multibeam bathymetric studies of the approximate area.


For further information, please contact: Marco Piano, SEACAMS, Tel: +44 (0) 1248 383978 email: ucs409@bangor.ac.uk

Burbo Bank 2 Offshore Wind Farm – Geotechnical Ground Investigation

There has been a short delay to the start of Geotechnical ground investigation at the proposed Burbo Bank 2 (extension) wind farm.

The survey vessel ‘Willendeavour’ to mobilize and be on site to start the survey Monday 14th July

This geotechnical investigation is expected to run until mid-August and will consist of a series of shallow vibrocore holes and cone penetration tests (cpt’s) at selected positions in the proposed wind farm footprint as well as along the proposed export cable route and will be carried out by the 22meter multi cat ‘Willendeavour’

The survey is not expected to interfere with any other vessels but a wide berth, minimum 500 meters, is requested around ‘Willendeavour’ at all times whenever this vessel is on site as the vessel will be required to remain stationary for long periods while sampling.

‘Willendeavour’ will keep a listening watch on VHF Channels 16 & 12 and can be contacting for information relating to the vessels movements only.

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