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
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 will begin at the earliest on 21st July 2014 and 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

For ‘live’ Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu
Neart na Gaoithe Offshore Windfarm and Cable Route – Geophysical Survey

Please note a geophysical survey is to be carried out at the proposed Neart na Gaoithe Offshore Windfarm 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  
2. 56°12.721’N 002°09.255’W  
3. 56°12.752’N 002°13.998’W  
4. 56°12.766’N 002°16.293’W  
5. 56°15.479’N 002°19.628’W  
6. 56°15.827’N 002°20.055’W  
7. 56°17.430’N 002°20.232’W  
8. 56°19.752’N 002°17.826’W  
9. 56°20.312’N 002°16.518’W  
10. 56°20.171’N 002°14.910’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 Windfarm – Geotechnical Survey

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

The vessels carrying out the geotechnical investigations will be the MV Fugro Commander and MV Highland Eagle. The survey is expected to commence on the 28th July 2014 and be completed by, approximately the 30th September 2014.

Wind Farm Site FID:

1. 56°15.271’N 002°09.898’W  
2. 56°12.721’N 002°09.255’W  
3. 56°12.752’N 002°13.998’W  
4. 56°12.766’N 002°16.293’W  
5. 56°15.479’N 002°19.628’W  
6. 56°15.827’N 002°20.055’W  
7. 56°17.430’N 002°20.232’W  
8. 56°19.752’N 002°17.826’W  
9. 56°20.312’N 002°16.518’W  
10. 56°20.171’N 002°14.910’W

For further information, please contact: Rosie Scurr. Tel: +44 (0)141 206 3864 or +44 (0)7967445717 Email: rosie.scurr@mainstreamrp.com
For ‘live’ Kingfisher updates of all Cable & Wind Farm activities, please visit www.kis-orca.eu

Neart na Gaoithe Offshore Windfarm – 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>
<tbody>
<tr>
<td>Calegeo Great Ship Manisha (Call Sign: 9V7823)</td>
<td>1. 58°06.543’N 002°41.888’W</td>
<td>14 July 2014 For 30 Days</td>
<td><img src="image" alt="" /></td>
</tr>
<tr>
<td>2. 58°03.946’N 002°54.796’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. 58°05.943’N 002°51.407’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 58°08.329’N 002°50.026’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 58°10.782’N 002°50.612’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 58°12.605’N 002°52.379’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 58°16.609’N 002°46.348’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. 58°19.378’N 002°44.296’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. 58°13.141’N 002°34.265’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. 58°08.080’N 002°34.184’W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. 58°06.543’N 002°41.888’W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Carlos Alvarenga, Calegeo, Tel: +44(0) 1508 521 200 email: carlos.alvarenga@calegeo.com
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.

Bathymetry survey and UXO works will be carried out on 17th or 21st July prior to the construction of a subsea berm. These works will be performed by the Montrose Marine II and will take approx. 2 days.

A navigation buoy will be installed on the 17th 25th July prior to the construction of a subsea berm. The installation will be carried out by the Orcadia Call Sign:2EWK4

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 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 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 28th July 2014 and continue for a period of approximately 23 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
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>
<tbody>
<tr>
<td>MV Ocean Dawn</td>
<td>53°20.842’N 001°18.758’E to 53°02.670’N 001°18.700’E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Sign: HP3209</td>
<td>53°18.250’N 001°28.771’E to 52°57.422’N 001°10.342’E</td>
<td></td>
<td></td>
</tr>
</tbody>
</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>
<tbody>
<tr>
<td>Fugro</td>
<td>52°24.953’N 002°34.462’E to 52°04.706’N 002°32.749’E</td>
<td>16 July 2014 For 4 Months</td>
<td></td>
</tr>
<tr>
<td>MV Aurelia – 9HF18</td>
<td>52°17.647’N 002°20.797’E to 52°04.541’N 002°27.835’E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MV Gargano-VSMW5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MV Markab – HO2743</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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°09.662’N 001°07.852’E and WTG ShS K5 in position 53°07.196’N 001°12.011’E.

...continued
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</th>
<th>Position</th>
<th>ID Config</th>
<th>Defect</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS1</td>
<td>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</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>West ID light board, right bulb of 3 unlit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>North ID light board, centre bulb of 3 unlit</td>
</tr>
<tr>
<td>OS2</td>
<td>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</td>
<td>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

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.
- 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
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: Ongoing boulder removal.

Array Cable Installation:
Atlantic Carrier: Currently in Immingham recapping on first cable installation. 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.

LAT      LONG
Eon Tri-axe Wave Rider  53°38.788’N  00°18.023’E
Eon Data-well Wave Rider 53°38.199’N  00°15.846’E

Important Locations:

**Met Mast**
53°38.237’N  00°15.730’E

**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°15.600’E

**South Cardinal Lighted Buoy**
Q (6) + LFl 15s 53°36.500’N  00°17.400’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

**Wave rider No 1**
53°39.930’N  00°18.160’E

Wet Storage of Anchors
Currently 6 anchors are wet stored around the metmast. A 500m exclusion zone is in place around this location. These locations are marked with yellow cans and a separate buoy with Navigational aids. The buoys are all marked with reflective tape, Anchor number and the EON emergency mobile.

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.

LAT      LONG
North End Cable  53°39.248’N  00°15.181’E
South End Cable 53°39.280’N  00°15.215’E

For further information, please contact: Gordon Bain, Eon Tel:+44(0) 7787241442 or Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891
**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°14.475'N 000°27.569'E</td>
<td>(Fl Y 5s) and Fog Horn</td>
</tr>
<tr>
<td>LS05</td>
<td>53°13.069'N 000°28.162'E</td>
<td>(Fl Y 5s)</td>
</tr>
<tr>
<td>LS13</td>
<td>53°08.451'N 000°28.303'E</td>
<td>(Fl Y 5s)</td>
</tr>
<tr>
<td>LS33</td>
<td>53°07.712'N 000°29.403'E</td>
<td>(Fl Y 5s)</td>
</tr>
<tr>
<td>LS52</td>
<td>53°14.843'N 000°30.010'E</td>
<td>(Fl Y 5s) and Fog Horn</td>
</tr>
<tr>
<td>LS59</td>
<td>53°12.451'N 000°31.016'E</td>
<td>(Fl Y 5s) and Fog Horn</td>
</tr>
<tr>
<td>LS64</td>
<td>53°10.803'N 000°31.047'E</td>
<td>(Fl Y 5s)</td>
</tr>
<tr>
<td>LS69</td>
<td>53°09.088'N 000°31.048'E</td>
<td>(Fl Y 5s) 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](http://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*
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. The works will include marine geophysical surveys and geotechnical investigations to support the development of the Navitus Bay Wind Farm.

**Company, Vessel & Call Sign** | **Area Covered** | **Start Timeframe & Duration** | **Area**
--- | --- | --- | ---
Horizon Geosciences Horizon Geobay (Call Sign: 3ETG2) | 1. 50°33.897'N 001°43.879'W 2. 50°33.882'N 001°42.484'W 3. 50°32.985'N 001°40.786'W 4. 50°24.881'N 001°40.277'W 5. 50°23.605'N 001°50.335'W 6. 50°28.024'N 001°51.276'W | 19 July 2014 For 3 to 4 Weeks |

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

First Published: 20 May 2014 | Latest Update: 04 June 2014

North Cornwall – Wave Hub

Please be advised that Seatricity have confirmed their plans to sublet an area of the Wave Hub Renewable Energy Development Area for the trials of their Oceanus 2 wave energy device and an associated Wave Rider Buoy.

**Working Area** | **Position**
--- | ---
SW Corner Berth 1 | 50°20.759'N 005°36.693'W
NW Corner Berth 1 | 50°21.026'N 005°36.720'W
NE Corner Berth 1 | 50°21.068'N 005°36.343'W
SE Corner Berth 1 | 50°20.801'N 005°36.277'W
Oceanus 2 Target Position | 50°20.834'N 005°36.651'W
Wave rider Buoy Target Position | 50°20.980'N 005°36.600'W

The deployment is planned from 25th May 2014 to 10th June 2014 and the Oceanus 2 device will then remain on station for up to one year (20th May 2015). Mariners should exercise caution when navigating in the vicinity:

Construction and operational support vessels will at times be restricted in their ability to manoeuvre and mariners are requested to give a wide berth in particular, mariners should note that in rough seas the device may submerge at times. Vessels should not attempt to approach the device and could risk entanglement within 50m due to submerged buoyancy on the positional mooring lines.

For further information, please contact: David Stoddart-Scott, Seatricity Ltd, Tel: 07976593775 email: david.stoddartscott@seatricity.net
Walney 3 Offshore Wind Farm – Geotechnical Ground Investigation

The DP vessel ‘Fugro Commander’ as well as the DP vessel ‘Highland Eagle’ are continuing with the geotechnical ground investigation at the proposed Walney 3 wind farm site.

‘Fugro Commander’ is currently making a port call at Heysham but will return to site shortly.

Both of these vessels will remain on site throughout July to continue with the geotechnical ground investigation and a wide berth is requested for both vessels at all times, minimum 500 meters, as during sampling and investigation they are required to remain stationary while drilling for long periods, both vessels will also move to new position within the site without prior notification.

It should also be noted that while ‘Highland Eagle’ will be positioned using DP only ‘Fugro Commander’ will use a spread of 4 anchors while remaining on station and sampling for up to 36 hrs.

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

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:

\[ \text{54}^\circ\text{00.597'}\text{N} \quad \text{002}^\circ\text{55.477'}\text{W} \]
\[ \text{54}^\circ\text{00.472'}\text{N} \quad \text{002}^\circ\text{56.368'}\text{W} \]

‘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

Dive activities from Dive Support Vessels will operate as and when required inside of the WoDS perimeter. Mariners should note that a minimum 500 meter Safety Exclusion Zone will be in force around vessels at all times whenever they are on site at any location.

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

All turbine foundations and transition pieces have been installed. ‘Sea Installer’ is on site fitting Tower sections, Turbines and Blades. All of the Inter-Array or Infield Cables have been surface laid and are now being buried by ‘Maersk Responder’.

The Guard Vessel for the Wind Farm site is ‘Ocean Harvester’ and this vessel can be contacted on VHF Channels 16 & 12 for information relating to vessel movements inside the Wind Farm only.

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

First Published: 01 July 2014 | Latest Update: 14 July 2014

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

First Published: 29 June 2012 | Latest Update: 14 July 2014

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.

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

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

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.
- **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, Gailllon, Caernarfon 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.
- **Absersoch 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

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

First Published: 19 November 2013 | Latest Update: 14 July 2014

Robin Rigg Offshore Wind Farm – Power Outage

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.

The Marine and Aviation Lights on Turbines A1 and B5 to be turned off, as well as the Aviation Lights on Turbines DI and F8.

This work is expected to take 12 days during which time all the other Marine and Aviation Lights - on turbines G1, J6, and K1 will remain fully functional.

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

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

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

Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm

Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm

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

Northern Irish Wind Resource Zone – MetOcean Monitoring

On behalf of First Flight Wind Ltd, FUGRO EMU Ltd plans to undertake the second scheduled service and decommissioning of metocean monitoring equipment at one location deployed within the Northern Irish Wind Resource Zone in the week commencing Wednesday 9th July 2014 or at the earliest opportunity thereafter, weather and vessel dependent.

Equipment is currently deployed at two locations within the Northern Irish Wind Resource Zone:

<table>
<thead>
<tr>
<th>Location</th>
<th>LAT</th>
<th>LONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location 1</td>
<td>54°08.927’N</td>
<td>05°43.365’W</td>
</tr>
<tr>
<td>Location 2</td>
<td>53°54.085’N</td>
<td>05°50.227’W</td>
</tr>
</tbody>
</table>

Deployed equipment currently comprises the following:
- 2 x wave buoys (one per location)
- 2 x cardinal marks with straight line moorings (one per location)
- 2 x cardinal marks with L-shaped moorings complete with seabed frame (one per location)

Equipment is deployed for the collection of wave, tide, temperature, current, salinity and turbidity data. Equipment at Location 1 is planned to be deployed until approximately November 2015.

Servicing and data recovery from deployed equipment at Location 1, and decommissioning of deployed equipment at Location 2 is planned to take place during the week commencing Wednesday 9th July 2014, weather and vessel dependent. The scheduled works are anticipated to require a total of 2-3 days. The Vessel Details MPV Skua Call Sign: 2GDE3

At Location 1 the wave buoy and seabed frames and moorings (inclusive of accompanying cardinal mark) will be recovered and serviced. All serviced equipment will be redeployed at its current location. At Location 2 all deployed equipment will be recovered for decommissioning.

Marine users are requested to maintain a minimum clearance of 300m from the vessel during these works. A 300m clearance is also requested around all deployed equipment in order to avoid danger of damage, collision or entanglement.

For further information, please contact: Jonathan Webber, RES Offshore, Tel: +44(0)7788 313098 email: jonathan.webber@res-offshore.com
Barrow Offshore Wind Farm – Diver Assisted Maintenance Programme

The 40 meter Dive Support vessel ‘MV Pollux’ is on site at the Barrow offshore wind farm and continuing with a maintenance programme involving divers at selected Turbine positions as well as at the Sub-Station.

Diving operations will be carried out at 9 of the Turbine positions as well as the Sub-Station.

Turbines where Diving operations will take place = A03, A04, A06, B02, B04, B06, C01, C06, D01 as well as the Sub-Station.

All mariners are requested to keep well clear of any of the Turbines, or the Sub-Station, where ‘MV Pollux’ can be seen to be operating and maintain a wide berth, at least 500 meters is requested although 1,000 meters is advisable.

‘MV Pollux’ will be assisted by the Wind Farm support vessel ‘SEA WEASEL’ and both vessels will keep a listening watch on VHF Channels 16, 12 & 14 and can be contacted for information relating to vessel movements only.

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