Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote the awareness of offshore hazards to fishing, new structures and zones and conflicting offshore operations. Support for the production of subsea cables industry information is received from The Crown Estate and the European Subsea Cables Association (ESCA).

Information

Information contained within the Kingfisher Bulletin comes from a variety of sources, although in the majority, supplied directly to Kingfisher from the offshore operating industry, or government licensing authorities.

Coordinates within the Kingfisher Bulletin are converted into World Geodetic System 1984 (WGS84) and displayed as degrees, minutes and decimal minutes, to three decimal places (ddd°mm.mmm'). Route or boundary coordinates may be simplified for ease of use.

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## New Hazards

### Area 1

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obstruction from Well 9/27-4</td>
<td>59°00.306’N 001°17.721’E</td>
<td>11 July 2017</td>
<td><a href="mailto:rawe@staoil.com">rawe@staoil.com</a></td>
<td>🌊</td>
</tr>
<tr>
<td>AXS Bundle Span – Alba Field</td>
<td>58°02.592’N 001°05.106’E to 58°02.607’N 001°05.088’E</td>
<td>29 June 2017</td>
<td><a href="mailto:pat.dasgupta@chevron.com">pat.dasgupta@chevron.com</a></td>
<td>🌊</td>
</tr>
</tbody>
</table>

### Area 2

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Tidal Gauge System, 1m x 1m base plate, 40 kg</td>
<td>57°04.674’N 002°04.542’E</td>
<td>10 Aug 2017</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td>🌊</td>
</tr>
</tbody>
</table>

### Area 3

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wreck of MV Ella</td>
<td>52°23.640’N 001°48.960’E</td>
<td>11 July 2017</td>
<td><a href="mailto:lee.cornwell@innogy.com">lee.cornwell@innogy.com</a></td>
<td>🌊</td>
</tr>
</tbody>
</table>

### Area 5

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x pipeline spans 2 metres high and 16 metres and 12 metres long</td>
<td>51°42.600’N 008°11.214’W 51°41.622’N 008°10.739’W 51°41.327’N 008°11.466’W 51°41.778’N 008°11.941’W</td>
<td>20 July 2017</td>
<td><a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a></td>
<td>🌊</td>
</tr>
<tr>
<td>Potential Seabed Obstruction</td>
<td>51°42.600’N 008°11.214’W 51°41.622’N 008°10.739’W 51°41.327’N 008°11.466’W 51°41.778’N 008°11.941’W</td>
<td>30 June 2017</td>
<td><a href="mailto:navwarnings@btconnect.com">navwarnings@btconnect.com</a></td>
<td>🌊</td>
</tr>
</tbody>
</table>

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The Hazard List is a collection of potential fishing hazards supplied to Kingfisher from across all offshore industries. Potential hazards will be listed for 6 months.
**Power Cable Inspections – Pentland Firth**

Please be advised that Briggs Marine Contractors (on behalf of SHEPD) will be undertaking subsea power inspections using an ROV launched from the DP2 vessel Glomar Wave Call Sign: 3FXF4

The inspection operations will commence during an appropriate weather window following 2nd August 2017 and will continue over a planned minimum period of 10 days, weather permitting.

The inspection operations will be concentrated across 7 (seven) cables. Corridors will be approximately 1km wide based on the centreline defined by the following coordinates:

<table>
<thead>
<tr>
<th>Pentland Firth (West Cable)</th>
<th>Pentland Firth (East Cable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern landfall:  58°36.78’N 3°25.53’W</td>
<td>Southern landfall:  58°36.48’N 3°25.51’W</td>
</tr>
<tr>
<td>Alter course:  58°38.95’N 3°29.74’W</td>
<td>Alter course:  58°37.15’N 3°25.55’W</td>
</tr>
<tr>
<td>Alter course:  58°44.08’N 3°32.45’W</td>
<td>Alter course:  58°39.51’N 3°29.92’W</td>
</tr>
<tr>
<td>Alter course:  58°46.86’N 3°32.46’W</td>
<td>Alter course:  58°43.94’N 3°29.78’W</td>
</tr>
<tr>
<td>Alter course:  58°50.17’N 3°29.22’W</td>
<td>Alter course:  58°45.33’N 3°31.25’W</td>
</tr>
<tr>
<td>Northern landfall:  58°52.12’N 3°23.86’W</td>
<td>Alter course:  58°45.08’N 3°31.25’W</td>
</tr>
<tr>
<td></td>
<td>Alter course:  58°49.72’N 3°29.30’W</td>
</tr>
<tr>
<td></td>
<td>Northern landfall:  58°51.80’N 3°22.82’W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mainland Orkney to Graemsay</th>
<th>Mainland Orkney to Hoy (North Cable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western landfall:  58°55.98’N 3°16.12’W</td>
<td>Western landfall:  58°54.25’N 3°16.97’W</td>
</tr>
<tr>
<td>Eastern landfall:  58°56.15’N 3°13.94’W</td>
<td>Eastern landfall:  58°55.62’N 3°13.54’W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mainland Orkney to Hoy (Centre Cable)</th>
<th>Mainland Orkney to Hoy (South Cable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western landfall:  58°54.23’N 3°16.92’W</td>
<td>Western landfall:  58°54.21’N 3°16.91’W</td>
</tr>
<tr>
<td>Alter course:  58°54.27’N 3°16.29’W</td>
<td>Alter course:  58°54.16’N 3°16.37’W</td>
</tr>
<tr>
<td>Eastern landfall:  58°55.54’N 3°13.42’W</td>
<td>Eastern landfall:  58°55.46’N 3°13.34’W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flotta to Hoy</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Western landfall:  58°49.51’N 3°10.43’W</td>
<td></td>
</tr>
<tr>
<td>Alter course:  58°49.70’N 3°10.06’W</td>
<td></td>
</tr>
<tr>
<td>Alter course:  58°49.89’N 3°09.11’W</td>
<td></td>
</tr>
<tr>
<td>Eastern landfall:  58°49.84’N 3°08.89’W</td>
<td></td>
</tr>
</tbody>
</table>

For further information: Company Fisheries Liaison Officer (CFLO) Alex Winrow-Giffin on 01379 872144 / 07760 160039 (alex@brownmay.com), or Stephen Appleby on 07887 777001.
Notice To Fishermen

Noss Head in Caithness - Moray HVDC Link – Boulder Re-location

The Caithness - Moray HVDC Link will be a twin bundled High Voltage DC interconnector (single cable diameter 132mm) installed by ABB HVC for Scottish Hydro Electric Transmission (SHE T) stretching approximately 113 km across the Moray Firth from Noss Head in Caithness to Portgordon in Moray.

NKT will undertake cable laying and a simultaneous ROV survey of the as-laid cables during May, June, July and August 2017 using the CLV Victoria. The cables will be laid in 2 campaigns, campaign 1 has been laid from Noss Head to approx. 58°06.416’N 002°35.737’W where the cable end has been wet stored.

Campaign 2 will be laid in July and August from Portgordon to approx. 58° 6.416’N 002°35.737’W where the cable end will also be wet stored prior to omega jointing being carried out. In July, before campaign 2 cable lay, CLV Victoria will undertake boulder relocation using a boulder grab. At Portgordon, with assistance from 4 work boats, zodiacs and divers the cables will be floated in with the aid of flotation bags, attached to an onshore winch wire and pulled through the pre-installed ducts. Once the cables are anchored on shore the CLV Victoria will commence laying operations. Once both cables have been laid the ends will be lifted to deck and jointing operations will be carried out and the resulting omega joint laid down on the seabed.

Until further notice 6 guard vessels will patrol along the cable route. There is a working area 250m either side of the cable route centreline coordinates given by the route position list above and other seafarers are requested to keep clear during these operations.

During the period 25 July 2017 to 30 August 2017 NKT will carry out ADCP measurements survey in the area shown in red on the chart below. It is planned to carry out the work during the highest tide of the month, if for any reason the highest tide in July is missed the work will be delayed till the highest tide in August, duration in the field is estimated to be 1 day.

<table>
<thead>
<tr>
<th>Point</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>58° 27.913’N 003°02.933’W</td>
</tr>
<tr>
<td>East</td>
<td>58° 27.824’N 003°02.575’W</td>
</tr>
<tr>
<td>South</td>
<td>58° 27.689’N 003°02.744’W</td>
</tr>
<tr>
<td>West</td>
<td>58° 27.778’N 003°03.002’W</td>
</tr>
</tbody>
</table>

Boulder relocation between Portgordon in Moray and Noss Head in Caithness: 57°40.700’N 003°01.900’W - 57°43.800’N 003°01.300’W

During SCAR plough trenching operations a number of boulders have been identified along the route between the coordinates shown on the chart above that require relocation. In July 2017 Forth Warrior will use a boulder grab to move identified boulders away from the route. There is a working area 250m either side of the cable route centreline coordinates given by the route position list below and other seafarers are requested to keep clear during these operations.

For further information: Richard Creed, ABB Tel: +44 7802 225532 email: Richard.creed@se.abb.com

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Area 1

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The Kingfisher
Information Service

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Notice To Fishermen

Caithness - Moray HVDC Link – Diving Activity off Noss Head & Portgordon

The Caithness - Moray HVDC Link will be a twin bundled High Voltage DC interconnector (single cable diameter 132mm) installed by ABB HVC for Scottish Hydro Electric Transmission (SHE T) stretching approximately 113 km across the Moray Firth from Portgordon in Moray to Noss Head in Caithness.

During the period May 2017 to end September 2017 in the areas shown below NKT will carry out diving operations to fit bell mouths and seals, grouting of HDD's and the fitting of cable protection systems.

During the month of August 2017 in the area shown on the chart below NKT will carry out HDD pigging and HDD cutting / lowering operations.

The corner coordinates given above include a 250m working area for vessel manoeuvres and other seafarers are requested to keep clear during these operations.

The vessels that will be used during diving operations will be the Teal, Shuna, Woodstock 1 and Rona. Teal and Woodstock 1 will be dive support vessels and will deploy 4 point mooring systems, Shuna will handle anchors and Rona will be a support vessel.

All vessels can be contacted on Channel 16 or through the contact mobile numbers:
Teal: 07578 730638  Shuna: 07713 064672  Woodstock 1 : 07342 026833  Rona: 07497 505586  NKT: 07713 985550

For further information: Richard Creed, ABB Tel: +44 7802 225532  email: Richard.creed@se.abb.com

Exposed Cable Sections – SHEFA 2 Subsea Cable

The Shefa-2 submarine cable, running between Banff, Orkney, Shetland and Faroes has suffered from several cable breaks since deployment in 2007. A re-deployment was completed successfully late in 2014 and the majority of exposed areas are now buried.

However, Shefa urgently has to stress that a further few areas of theShefa-2 segment 7, 8 & 9 are unburied and therefore exposed. Especially we need to highlight a limited exposed area on the segment running between Manse bay in Orkney and Banff in Scotland between the following positions:
A: 58°47.208'N 002°46.617'W and  B: 58°47.300'N 002°46.763'W

This area represents a hazard to fishing and should be avoided at all times. The latest route of the cable may be seen on the KIS-ORCA Fishing Plotter disk released January 2015 and may be downloaded from www.kis-orca.eu/downloads

For a copy of the Kingfisher Awareness Flyer, showing the exposed sections of SHEFA from December 2013, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

For further information: Tel: +298243602, Email: phv@ft.fo, brr@ft.fo
Caithness - Moray HVDC Link – Cable Laying

The Caithness - Moray HVDC Link will be a twin bundled High Voltage DC interconnector (single cable diameter 132mm) installed by NKT HV Cables AB for Scottish Hydro Electric Transmission (SHE T) stretching approximately 113 km across the Moray Firth from Portgordon in Moray to Noss Head in Caithness.

At the end of July the first cable pull-in at Portgordon was initiated however, after 700m the cable became stuck in the HDD duct, resulting in the cable having to be cut. There will be no further pull-ins at this time and therefore, the cable ends have been wet stored in the cable corridor.

Over the next few days 7 rock bags (each 2.4m dia, 0.6m high & 4t in weight), will be strategically positioned along the wet stored cable.

Preparations will be made to pull-in these cables later in the year. When the engineering for these operations has been carried out and a date for pull-in agreed a further Notice to Mariners will be issued at that time.

There is a 250m exclusion zone either side of the wet stored cable and all vessels are requested to stay out of this area until such time as NKT advise otherwise. A guard vessel has been assigned to patrol this area for the foreseeable future.

Significant coordinates for the abandoned cable and wet stored cable are given below.

<table>
<thead>
<tr>
<th>Coordinates</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>57°40.675'N 003°01.824'W</td>
<td>HDD4 as-built exit point</td>
</tr>
<tr>
<td>57°40.769'N 003°01.862'W</td>
<td>Cable location estimated from workboat</td>
</tr>
<tr>
<td>57°41.067’N 003°01.862’W</td>
<td>Abandoned cable end - wet store from HDD</td>
</tr>
<tr>
<td>57°42.551’N 003°01.583’W</td>
<td>Holdback anchor position</td>
</tr>
<tr>
<td>57°41.175’N 003°01.863’W</td>
<td>Start of bight</td>
</tr>
<tr>
<td>57°41.182’N 003°01.887’W</td>
<td>Centre of bight</td>
</tr>
<tr>
<td>57°41.175’N 003°01.911’W</td>
<td>End of bight</td>
</tr>
</tbody>
</table>

Coordinates of the exclusion zone:

<table>
<thead>
<tr>
<th>Coordinates</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>57°40.675’N 003°02.081’W</td>
<td></td>
</tr>
<tr>
<td>57°41.278’N 003°02.130’W</td>
<td></td>
</tr>
<tr>
<td>57°41.417’N 003°01.991’W</td>
<td></td>
</tr>
<tr>
<td>57°42.715’N 003°01.816’W</td>
<td></td>
</tr>
<tr>
<td>57°42.698’N 003°01.313’W</td>
<td></td>
</tr>
<tr>
<td>57°41.397’N 003°01.501’W</td>
<td></td>
</tr>
<tr>
<td>57°41.246’N 003°01.611’W</td>
<td></td>
</tr>
<tr>
<td>57°40.879’N 003°01.576’W</td>
<td></td>
</tr>
</tbody>
</table>

For further information: Richard Creed, ABB Tel: +44 7802 225532 email: Richard.creed@se.abb.com

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Notice To Fishermen

Caithness - Moray HVDC Link – Diving Activity off Noss Head & Portgordon

The Caithness - Moray HVDC Link will be a twin bundled High Voltage DC interconnector (single cable diameter 132mm) installed by ABB HVDC for Scottish Hydro Electric Transmission (SHE T) stretching approximately 113 km across the Moray Firth from Portgordon in Moray to Noss Head in Caithness.

During the period May 2017 to end September 2017 in the areas shown below NKT will carry out diving operations to fit bell mouths and seals, grouting of HDD's and the fitting of cable protection systems.

58°27.841'N 003°03.012'W
58°27.773'N 003°02.823'W
58°27.810'N 003°02.767'W
58°27.885'N 003°02.925'W

During the month of August 2017 in the area shown on the chart below NKT will carry out HDD pigging and HDD cutting / lowering operations.

57°40.527'N 003°01.615'W
57°40.527'N 003°02.164'W
57°40.821'N 003°01.615'W
57°40.821'N 003°02.164'W

The corner coordinates given above include a 250m working area for vessel manoeuvres and other seafarers are requested to keep clear during these operations.

The vessels that will be used during diving operations will be the Teal, Shuna, Woodstock 1 and Rona. Teal and Woodstock 1 will be dive support vessels and will deploy 4 point mooring systems, Shuna will handle anchors and Rona will be a support vessel.

All vessels can be contacted on Channel 16 or through the contact mobile numbers:
TEAL: 07578 730638  Shuna: 07713 064672  Woodstock 1: 07342 026833  Rona: 07497 505586  NKT: 07713 985550

For further information: Richard Creed, ABB Tel: +44 7802 225532  email: Richard.creed@se.abb.com
Notice to Fishermen
Published: 10 August 2017  |  Latest Update: 10 August 2017

Cable Repair – North Sea Com 1 (NSC) Seg 1

Global Marine Group has been contracted to undertake an emergency repair on the North Sea Com 1 (NSC) Seg 1 submarine fibre optic telecommunications cable in the North Sea within the UK’s EEZ.

The CS Wave Sentinel is now expected to be on Saturday the 12th of August however this will be dependent on the local weather conditions over the next few days.

The estimated location is approximately 52° 59.265’N 2° 23.894’E and the duration of the cable repair will be approximately 4 days depending upon weather or other operational conditions.

The vessel will be limited in manoeuvrability. Other vessels should maintain a distance of at least 1NM from the cable ship during operations, and 1/4NM from any cable buoys in place during the course of the repair for safety. Please contact myself or Steven Bennett, Project Manager if you have any queries regarding this notification or if you have any information on any underwater activity in this area that is relevant to the proposed operation.

For further information: Alex Riddell, Global Marine, email: Alex.Riddell@globalmarine.group

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Notice to Fishermen
Published: 27 July 2017  |  Latest Update: 27 July 2017

Cable Repair – Murdoch-Cygnus Fibre Optic Cable

Global Marine Systems Ltd has been contracted to undertake a repair to the Murdoch-Cygnus fibre optic telecommunications cable in the North Sea.

The CS Sovereign is due to arrive on site 31st July 2017 to commence repair works. The estimated location is 54°34.199’N 002°17.394’E

The duration of the cable repair will be approximately 14 days depending upon weather or other operational conditions.

The vessel will be limited in manoeuvrability. Other vessels should maintain a distance of at least 1NM from the cable ship during operations, and 1/4NM from any cable buoys in place during the course of the repair for safety.

For further information: John Wrottesley, Global Marine Group, Tel: +44 1245 702009 email: john.wrottesley@globalmarine.group

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Notice to Fishermen
Published: 29 June 2017  |  Latest Update: 29 June 2017

NorSeaCom-Seg3 – Possible Exposed Cable

The NorSeaCom-Seg3 submarine cable, running out of Lowestoft and north, has suffered from several cable breaks since deployment. The cable might be exposed in areas along the route, as the nature of the seabed and current conditions is causing changes in the cable configuration.

Recently another hit was recorded to the NorSeaCom-Seg 3 cable in position 52°32.852’N 002°13.650’E, indicating that the cable is exposed in this area. This position and the near proximity along the route represents a hazard to fishing and should be avoided at all times. A guard vessel will patrol along exposed cable route, and other seafarers are requested to approach the area with caution and not deploy fishing gear within 500m of the position 52°32.852’N 002°13.650’E or along the route of the cable.

The cable owner wishes to inform fishermen that they cannot trawl across the NorSeaCom-Seg 3 cable without risking damaging it and subsequent legal action to recover the repair cost.

The latest route of the cable is available at http://www.kis-orca.eu/

For further information: John Wrottesley, Global Marine Group, Tel: +44 1245 702009 email: john.wrottesley@globalmarine.group
Nemo Link Project – Dredging Operations

Mariners are advised that the Nemo-Link project will be carrying out dredging operations throughout June-July in the UK / French sectors of the Nemo Cable Route.

The dredging campaign will be executed by the Trailing Suction Hopper Dredger (TSHD) ‘Gerardus Mercator’ which will including dredging and survey operations. The dredging works are presently planned for execution during June and July 2017. The following schedule is anticipated for the duration of this Notice. UK / FR territorial waters: 19/06/17 – 08/08/17

Dredging within the UK sector will be conducted within the boundary, defined as follows:

<table>
<thead>
<tr>
<th>Nemo Disposal Site A – TH150</th>
<th>FR Sector Dredge/Disposal Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>51°19.390N 002°01.603E</td>
<td>51°19.483N 001°44.605E</td>
</tr>
<tr>
<td>51°19.660N 002°01.839E</td>
<td>51°19.489N 001°46.526E</td>
</tr>
<tr>
<td>51°19.656N 002°00.662E</td>
<td>51°19.486N 001°49.269E</td>
</tr>
<tr>
<td>51°19.652N 001°59.435E</td>
<td>51°19.512N 001°50.834E</td>
</tr>
<tr>
<td>51°19.647N 001°57.579E</td>
<td>51°19.519N 001°51.585E</td>
</tr>
<tr>
<td>51°19.705N 001°55.141E</td>
<td>51°19.435N 001°55.125E</td>
</tr>
<tr>
<td>51°19.789N 001°51.600E</td>
<td>51°19.376N 001°57.571E</td>
</tr>
<tr>
<td>51°19.781N 001°50.627E</td>
<td>51°19.382N 001°59.438E</td>
</tr>
<tr>
<td>51°19.786N 001°49.291E</td>
<td>51°19.386N 002°00.665E</td>
</tr>
<tr>
<td>51°19.758N 001°46.524E</td>
<td>51°19.390N 002°01.603E</td>
</tr>
</tbody>
</table>

Disposal of dredge material within the UK sector will be within 3 sites, namely: TH150 & TH151.

For further information: John Wrottesley, Global Marine Group, Tel: +44 1245 702009 email: john.wrottesley@globalmarine.group

Notice To Fishermen

Cable Repairs – Concerto 1 North

Recently there have been several repairs to the Concerto 1 North cable due to the mobile nature of the seabed. These repairs are post repair buried but remain more vulnerable than other sections of the cable. For all details of the current status of the cable please see the up to date Kingfisher Awareness Flyer. This may be obtained by clicking the link below or by visiting www.kingfishercharts.org

Please note that the following chart has been updated.
Notice to Fishermen

Hazardous Condition of Cable – Ulysses South Landing (St Margaret’s Bay)

Please note that further to earlier notices, the Ulysses South submarine cable landing at St Margaret’s Bay, near Dover, remains broken at position: 51°08.70’N 01°24.06’E. This position lies approximately 1.3km offshore in a water depth of 15 metres.

As a result of this fault, the cable at the approaches to St Margaret’s Bay has been dragged an indeterminate distance to the north of its as laid route on either side of the fault position. Caution should therefore be exercised in this area until the cable repair operation has been carried out.

A map of the hazardous position may be seen by clicking on the ‘Map Link’ in the top right corner.

For further information: Steven Bennett, Global Marine, Tel: +44 7557 908179 email: Steven.bennett@globalmarinesystems.com
Isles Of Scilly Interlink Power Cable – Emergency Repair

Please be informed that the repair operations are now complete for the Isles of Scilly cable. The cable has been laid to a new position as shown in the table below:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Seabed Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°05.289'N</td>
<td>5°50.850'W</td>
<td></td>
</tr>
<tr>
<td>50°05.170'N</td>
<td>5°51.363'W</td>
<td></td>
</tr>
<tr>
<td>50°05.155'N</td>
<td>5°51.501'W</td>
<td></td>
</tr>
<tr>
<td>50°05.149'N</td>
<td>5°51.635'W</td>
<td></td>
</tr>
<tr>
<td>50°05.135'N</td>
<td>5°51.746'W</td>
<td></td>
</tr>
<tr>
<td>50°05.110'N</td>
<td>5°51.849'W</td>
<td></td>
</tr>
<tr>
<td>50°04.971'N</td>
<td>5°52.285'W</td>
<td></td>
</tr>
<tr>
<td>50°04.957'N</td>
<td>5°53.453'W</td>
<td></td>
</tr>
<tr>
<td>50°04.563'N</td>
<td>5°53.638'W</td>
<td></td>
</tr>
<tr>
<td>50°04.313'N</td>
<td>5°56.331'W</td>
<td></td>
</tr>
<tr>
<td>50°03.965'N</td>
<td>6°00.062'W</td>
<td></td>
</tr>
<tr>
<td>50°03.856'N</td>
<td>6°00.595'W</td>
<td></td>
</tr>
<tr>
<td>50°02.966'N</td>
<td>6°03.578'W</td>
<td></td>
</tr>
<tr>
<td>50°02.885'N</td>
<td>6°03.741'W</td>
<td></td>
</tr>
</tbody>
</table>

For further information: John Wrottesley, Global Marine Group, Tel: +44 1245 702009 email: john.wrottesley@globalmarine.group

North Coast of Cornwall – Wave Hub Subsea Cable Safety Notification

Please be advised that following the recent installation of the Wave Hub Cable Tail Extensions across the offshore Renewable Energy Development Area that the subsea electrical system is now live at 33kV.

The following safety information should be carefully digested by any mariner operating in the vicinity of the Wave Hub offshore site or export cable:

1) Four new and exposed cable tails have been installed across the charted offshore Renewable Energy Development Area (KP chart and RPLs attached). These cables are stabilised against current and wave action and supported where free-spans occur with rock bags but are not otherwise protected from anchors or fishing gear.

2) Due to varying sediment depths, the Wave Hub main export cable remains exposed in places in St Ives Bay. From KP 1.9 to KP 8.1 the subsea power cable is in parts exposed or carries a high risk of exposure (KP chart and RPLs attached). From the shore to KP1.9 the subsea power cable is buried and from KP 8.1 to the Wave Hub itself (KP 25) the subsea power cable is surface laid and covered by a continuous rock berm.

Cable exposure limits (Wave Hub subsea export cable):

<table>
<thead>
<tr>
<th>KP</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Seabed Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 1.30 to 8.10</td>
<td>50°12.691'N</td>
<td>005°25.639'W</td>
<td>12.5m</td>
</tr>
<tr>
<td>To 8.10</td>
<td>50°14.222'N</td>
<td>005°29.945'W</td>
<td>27.2m</td>
</tr>
</tbody>
</table>

For further information: Julius Besterman, Wave Hub, Tel: 01736 800291, Mobile: 07825 943738 http://www.wavehub.co.uk/notice-to-mariners

Hugo Seg 1 – Cable Repairs

Due to work on the Hugo subsea cable, there remains vulnerable and hazardous sections. Due to the nature of the sea bed, although all efforts had been made to bury the cable and associated joint boxes, only minimal or reasonable coverage was achieved.

Section 1 – Repair section of over 4km including final splice bight (minimal coverage)

Extreme caution should be exercised if working between: 49°39.163N 004°59.495W and 49°38.310N 004°56.427W

Section 2 – Repeater installation at 49°35.675N 4°46.785W (minimal coverage)

Extreme caution should be exercised if working between: 49°35.657N 004°47.079W and 49°35.519N 004°46.553W

Section 3 – Repeater installation at 49°36.675N 3°35.045W (reasonable coverage)

Caution should be exercised if working between: 49°36.671N 003°35.332W and 49°36.675N 003°34.752W

For further information: Jon Ford at Vodafone, Tel: +44 7776 165571 email: jon.ford@vodafone.com
Exposed Cable Sections – Apollo South Cable (SW Approaches)

On behalf of Apollo SCS Ltd, fishermen are advised that following a recent repair to the Apollo South subsea telecoms cable there now exists a section of exposed/unburied cable in the vicinity of

49°04.76N Long 006°41.59W

Due to the nature of the seabed in this area the cable is exposed and could be a hazard to fishing. Fishermen are asked to ensure that they have the route of the Apollo South cable accurately plotted on their fishing charts. Trawler skippers are respectfully asked to exercise caution when trawling in the vicinity of the Apollo South cable and to keep beyond a distance of at least 500 metres from the charted cable route and where at all possible to avoid trawling directly over the cable route. Static gear fishermen are advised not to deploy anchors and end weights in close proximity of the cable.

For further information: Colin Richards, Network Marine, Email: colinrichards@networkmarine.co
Power Cable Inspections – Firth of Clyde

Please be advised that Briggs Marine Contractors (on behalf of SHEPD) will be undertaking subsea power inspections using an ROV launched from the DP2 vessel Glomar Wave Call Sign: 3FXF4

The inspection operations will commence during an appropriate weather window following 28th July 2017 and will continue over a planned minimum period of 5 days, weather permitting.

The inspection operations will be concentrated across five cables. Corridors will be approximately 1km wide based on the centreline defined by the following coordinates:

Carradale to Arran (North and South Cables)
- Western Landfall: 55°35.820’N 05°28.230’W | Eastern Landfall: 55°35.740’N 05°22.820’W

Bute to Cumbrae (North)
- Western Landfall: 55°45.990’N 05°00.290’W | Eastern Landfall: 55°45.510’N 04°56.890’W

Carradale to Arran (North and South Cables)
- Western Landfall: 55°45.990’N 05°00.290’W | Eastern Landfall: 55°44.830’N 04°57.020’W | Alter Course: 55°45.430’N 04°57.800’W

Kames to Bute (North)

Bute to Ardyne (North and South)
- Western Landfall: 55°52.740’N 05°04.590’W | Eastern Landfall: 55°53.040’N 05°02.580’W

For further information: Company Fisheries Liaison Officer (CFLO) Alex Winrow-Giffin on 01379 872144 / 07760 160039 (alex@brownmay.com), or Stephen Appleby on 07887 777001.

Incorrect Plotter Data – BT-MT1 Telecoms Cable (Irish Sea)

Please note that in error the BT-MT1 subsea telecommunications cable was NOT included on the KIS-ORCA fishing plotter data for January 2017. The cable is still active and care should be taken if fishing in the vicinity.

KIS-ORCA charts and www.KIS-ORCA.eu/map are unaffected. Corrected plotter data has been produced and is available to download from www.KIS-ORCA.eu/downloads - for the full zip file of KIS-ORCA data click: http://www.kis-orca.eu/media/27588/ALL_KIS-ORCA_Potters_2017v2.zip

Corrected USB cards will be issued in June 2017 - please contact Kingfisher if you would like help, or new USB cards supplying before this time.

For further information: Kingfisher Information, Tel: 01472 252307, Email: kingfisher@seafish.co.uk
Exposed Cable and Poor Burial – Sirius South Cable

Mariners are advised that there is sections of Exposed Cable & Poor Burial of this section of the Sirius South Cable.

From: 53°43.383’N 4°20.306’W  |  To: 53°43.383’N 4°20.306’W

Also Exposed Section of Cable: 53°43.383’N 4°20.306’W

For further information: Peter Jamieson, Virgin Media, email: peter.jamieson@virginmedia.co.uk

Hazard - Hibernia Segment C – Abandoned Gear & Vulnerable Cable

Incident involving a fishing vessel snagging its gear. GMSL’s understanding is the MCA advised the vessel (Siobhan 3) to slip it’s gear due to the proximity of the Hibernia Segment C subsea cable.

The position given was 53°50.340N:004°55.832W, south of the Isle of Man, although it cannot be confirmed if the gear was snagged on the cable.

For further information: Hibernia cables with the new 24/7 Emergency Contact Number of: +353 1 867 3601

Fishing Hazard – Exposed Subsea Cable, Beam Trawl and Wire

Please be advised that, following entanglement with a subsea cable, a beam trawl and scallop gear have been discarded at the position below.

The fishing gear is entangled with the subsea cable and poses a significant hazard to fishing (L: 10m x H: 2m). There is also over 80m of exposed cable in the vicinity, due to the trawl dragging the cable from its original position.

The position is: 55°22.915’N 06°35.917’W

It was advised that the fishermen cut away both sides of his fishing gear and up to 200 fathoms of wire rope.

Please exercise extreme caution whilst fishing in this area.

For further information: Alasdair Wilkie, Hibernia, Email: alasdair.wilkie@hibernianetworks.com, Tel: +44 1704 322 306, Mobile: +44 7850 770 577

Moyle Interconnector – Cable Repair

Mariners are advised that the vessel Elektron Call Sign: LADO is being mobilised to carry out emergency repair work on the southern Moyle Interconnector power cable in the North Channel between Northern Ireland and Scotland. This work is due to commence on the 6th May 2017. A Notice to Mariners describing the work can be downloaded here and is summarised below:

The position given was 54°54.954’N 005°30.985W

Later in the year (probably in August), the vessel Nexans Skagerrak will return to the area to pick up the cut cable ends, splice in a new section of cable, lay down the repaired cable and re-bury it.

For further information: Jim Andrews, Fisheries Liaison Officer, Tel: +44(0)7908225865  email: jim@awjmarine.co.uk
Mariners are advised that additional works are required to the section of the Western HVDC Link cable south of the Isle of Man in the Irish Sea. A Notice to Mariners detailing the planned operations is summarised below and can be downloaded [here](#).

**Additional Works**

The additional works will require the presence of the cable laying vessel *Giulio Verne*, post lay installation burial support vessel *Normand Pacific*, and the support vessel *Normand Flower*. All of the work is due to be carried out to the south of the Isle of Man. The works will be carried out between locations specified in Table 1 of the Notice to Mariners. As part of these operations, sections of spare cable will be surface laid. The locations of these sections of surface laid cable are detailed in Table 2 of the Notice to Mariners that can be downloaded [here](#).

**Vessel details**

Details of the vessels involved in these operations, along with their present location can be found on MarineTraffic.com via the links below:-

- Giulio Verne: Cable layer | Call sign IPBU.
- Normand Pacific: Multi Purpose Offshore Vessel | Call sign LAXI7.
- Normand Flower: Multi Purpose Offshore Vessel | Call sign SYBE.

The vessel involved in this work will be restricted in its ability to manoeuvre and other vessels are reminded to pass at a safe speed and distance. Fishing vessels are advised to remain a safe distance (approximately 1.5 nautical miles) from the free laid sections and the crossing sections. Deployed Guard Vessels will monitor the exposed areas and advise of safe distances locally.

**Exposed cable locations**

Mariners are advised that all cable burial and protection works have been completed on Campaigns 4a & 4b (in the Firth of Clyde) and Campaigns 1 & 2 (in Liverpool Bay).

There are several sections of exposed cable along the cable route to the south and west of the Isle of Man (Campaigns 5a & 5b), and also Campaigns 3 & 6 (to the west of the Isle of Man running towards the North Channel). These sections comprise crossings of existing cables & pipelines, areas of cable that will be jointed and buried, as well as some small exposures that are under review to reduce the need for rock protection on the cable route.

To assist all mariners, a consolidated list of exposed cable locations (as of 30th June 2017) has been compiled. This list is included in the notice to mariners that can be downloaded [here](#).

**Guard vessels**

Guard vessels have been stationed along the cable route during installation and burial to ensure the safety of marine users. They will remain in position until cable protection operations are completed to advise mariners of the location of exposed cable. In areas where the cable crosses other cables and pipelines that are in service, the guard vessels will remain on station until cable protection has been completed in these locations (either through concrete mattressing or rock placement).

Vessels are requested to pass at a safe speed and distance and fishing vessels are advised to remain a safe distance (approximately 1.5 nautical miles) from the areas identified. Guard Vessels have been deployed at each location to aid in monitoring the exposed areas and advise of safe distances locally.

The locations of Guard Vessel areas and exposed sections are shown in Tables 1 & 2 of the Notice to Mariners which can be downloaded [here](#).

The Notices to Mariners that are presently in place for this project are:-

- **Western HVDC Link: Additional Works, Irish Sea** - this notice is described above. It was issued on the 4th August 2017 and provides information about additional work on the cable route being carried out to the south of the Isle of Man. The notice can be downloaded [here](#).
- **Western HVDC Link: Deep Water Cable Post-lay Rock Placement Works, North Channel & Irish Sea** - this notice was issued on the 27th July 2017 and provides information about deep water rock placement works in the North Channel and the Irish Sea. The notice can be downloaded [here](#).
- **Western HVDC Link: Post-lay mattressing operations in the Irish Sea** - this notice was issued on the 20th July 2017 and provides information about the installation of mattresses on a cable crossing to the west of the Isle of Man. The notice can be downloaded [here](#).
- **Western HVDC Link: Deep water cable installation, Irish Sea, July 2017** - this notice was issued on 13th July 2017 and provides an update on proposed cable installation and burial work in the Irish Sea to the south and west of the Isle of Man. It can be downloaded [here](#).
• Exposed cable locations: Update, Irish Sea North Channel, Firth of Clyde - this notice was issued on 30th June 2017 and provides an update on exposed cable locations in these areas. The notice can be downloaded here.

• Shallow water survey work, Ardneil Bay & Leasowe - this notice was issued on the 29th June 2017 and describes the shallow water survey work that will be carried out at Ardneil Bay and Leasowe during July 2017. The notice can be downloaded here.

• Post lay mattressing operations in the Irish Sea - this notice was issued on the 11th May 2017 and describes the mattressing operations that will be carried out to protect the cable at service crossings in the Irish Sea and the Firth of Clyde. The notice can be downloaded here.

• Debris - this notice was issued on the 15th March 2017. It informs mariners of the location of some debris that was found during the Pre Lay Grapnel Run along the cable route to the south of the Isle of Man. The notice can be downloaded here.

• Concrete mattressing - along the cable route concrete mattresses have been laid at crossings of existing cables and pipelines. A notice to mariners about the mattressing campaign conducted in 2015 can be downloaded here.

For further information: Jim Andrews, Fisheries Liason Officer, Tel: +44(0)7908225865  email: jim@awimarine.co.uk
Cable Repairs – TAT 14 (Segment K)

During the last four years there have been several repairs to the TAT 14 segment K cable North of Scotland from the Fair Isle Channel to the Continental Shelf edge and slope. For all details on the current status of the cable please see the up to date Kingfisher Awareness Flyers. These may be obtained by clicking on the links below, or by visiting www.kingfishercharts.org

Please note that the following charts have also been updated:

- Kingfisher Flyer: Sprint 2013 - ENGLISH
- Kingfisher Flyer: Sprint 2013 - FRENCH
- Kingfisher Flyer: Sprint 2013 - FAROESE
- Kingfisher Flyer: Sprint 2013 - RUSSIAN

For further information: Colin Richards, Network Marine, Email: colinrichards@networkmarine.co