

30 June 2016 | Issue 14

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The shaded blocks below indicate reports of fishing hazards and offshore activities.

What's inside?

New Hazards (p.2)

Area 1 (N.A)

1. No content

Area 2 (N.A)

1. No content

Area 3 (p.3-7)

1. Seabed Activity
2. Survey Activity

Area 4 (p.8)

1. Deployment of Buoys

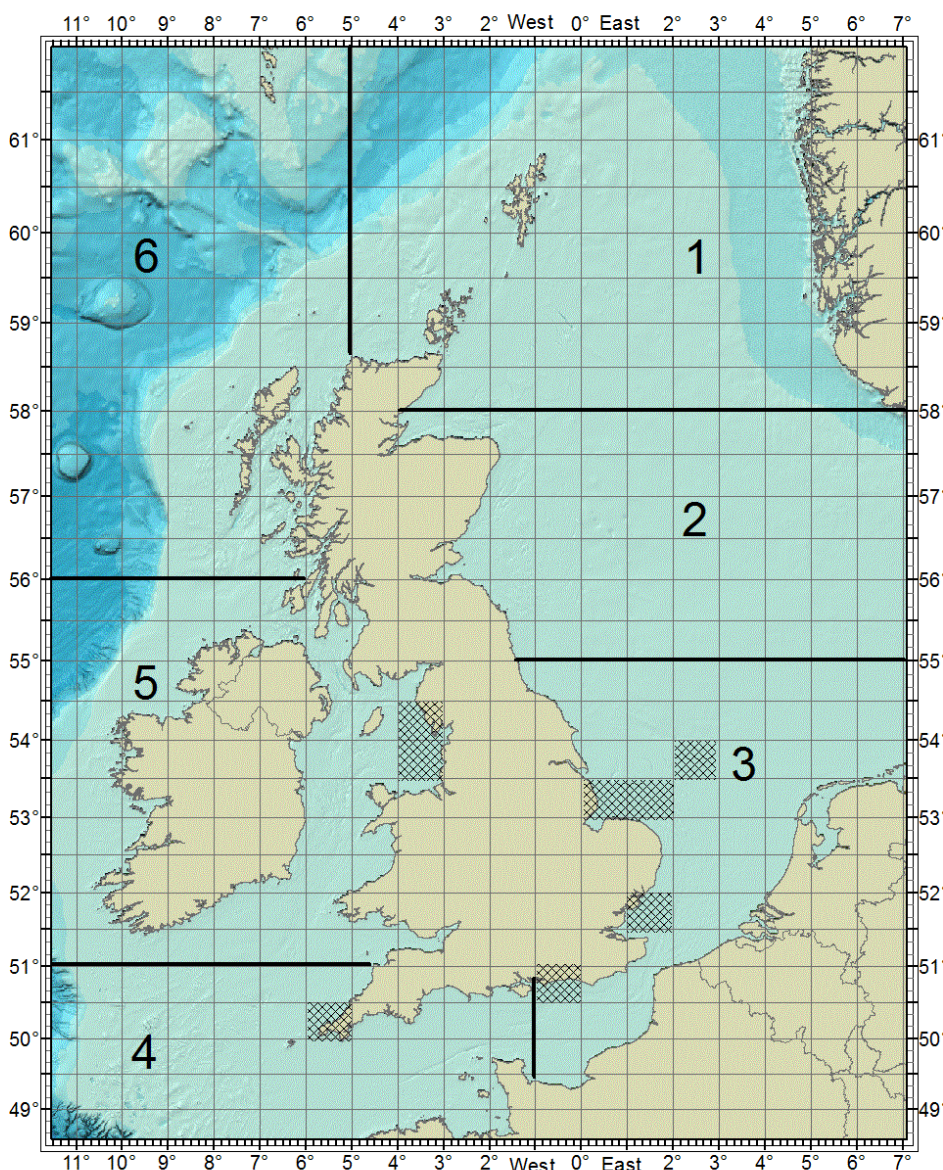
Area 5 (p.9-12)

1. Seabed Activity
2. Deployment of Buoys

Area 6 (N.A)

Extra... (p.13)

1. Awareness Charts
2. Fishing Plotter Files







Offshore Wind and Marine Renewables

New Hazards

30 June 2016 | Issue 14

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Area 1 – Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
New Suspended Wellhead – 16/28a-18	58°05.053'N 01°34.587'E	07 April 2016	Marcelle.wynter@oga.gsi.gov.uk	
Sunken Vessel Majestic	60°45.535'N 001°17.018'W	28 Jan 2016	nick.strachan@uk.bp.com	
Pipeline Span 204/24a Foinaven	60°18.824'N 004°13.793'W 60°18.819'N 004°13.779'W	28 Jan 2016	nick.strachan@uk.bp.com	
Possible Debris from Well 15/21b-21	58°12.510'N 000°07.388'E	28 Jan 2016	kingfisher@seafish.co.uk	

* **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.**

Area 3

30 June 2016 | Issue 14

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Notice to Fishermen

First Published: 19 May 2016 | **Latest Update: 19 May 2016**

Gunfleet Sands Offshore Wind Farm – Export Cable

Further to previous Notice to Mariners' (NtM)1 which notified mariners of the presence of discrete areas of exposed High Voltage cable above the seabed, more recent bathymetric surveys of this area have been undertaken (Sep/Oct 2015) and the status of these exposures has been updated.



The dynamic nature of the seabed here may result in ongoing re-exposure of parts of the cable. Ongoing surveys will be undertaken

Location	Status of Exposure
51°48.150'N 001°12.722'E	Approx. 11m of cable remains exposed. However, proximity to shore means that risk to mariners is judged to be very low.
51°44.588'N 001°13.459'E	No cable exposure in this area.
51°43.691'N 001°14.210'E	No cable exposure in this area— scour (and cable exposure) at base of offshore substation foundation recently remediated via rock dump campaign.

For further information: Jonny Lewis, AMrinespace Ltd, Tel: 07817644284 email: jonny.lewis@marinespace.co.uk

Notice to Fishermen

First Published: 21 April 2016 | **Latest Update: 21 April 2016**

Triton Knoll Offshore Wind Farm – Anchor Chain & Moorings



Mariners are advised that anchor chain and mooring components remaining within the Triton Knoll Offshore Wind Farm approximately 50 kilometres (km) off the Lincolnshire coast at its nearest point.

Clump Weights & Mooring Lines

Location	Item on Seabed
53°24.768'N 000°57.872'E	500kg Clump Weight
53°24.784'N 000°58.340'E	500kg Clump Weight
53°24.760'N 000°57.423'E	500kg Clump Weight
53°27.667'N 000°54.261'E	500kg Clump Weight
53°27.674'N 000°54.713'E	500kg Clump Weight
53°27.579'N 000°53.799'E	500kg Clump Weight
53°30.084'N 000°42.401'E	500kg Clump Weight
53°30.099'N 000°43.378'E	500kg Clump Weight
53°27.653'N 000°54.261'E	500kg Clump Weight
53°25.032'N 000°57.959'E	80kg Clump Weight



For further information: Mark Barham Tel: +44(0)1493 845 600 email: mark.barham@gardline.co.uk

Graham Moates, Triton Knoll Offshore Wind Farm Ltd, Tel: +44(0)7976 301 963 email: graham.moates@rwe.com

Area 3

30 June 2016 | Issue 14

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Seabed Activity

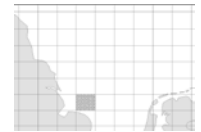
First Published: 10 March 2016 | **Latest Update: 30 June 2016**

Dudgeon Offshore Wind Farm – Construction Works

Construction activities are in progress at the Dudgeon Offshore Wind Farm and Export Cable Corridor.

Foundation Installation

The OLEG STRASHNOV Heavy Lift Vessel, operated by Seaway Heavy Lifting, will install the 67 Wind Turbine Generator foundations and the substation topside in the wind farm area. The OLEG STRASHNOV will be supported by anchor handling tugs. This operation is on-going and expected to be completed by end-August 2016.



The Seven Viking will perform seabed intervention at the Offshore Substation Jacket foundation location. This work is on-going and planned to be completed by 26.06.2016.

Cable Installation

The NDEAVOR cable laying vessel, operated by VBMS, will install inter-array cables to connect wind turbines to the offshore substation. This operation is expected to start late June 2016 and to be completed by mid-September 2016. The Grand Canyon will be performing burial of the Inter Array Cables. This operation is expected to start early August 2016. The vessel Rollingstone will perform rock installation for scour protection around the Substation location. This operation is expected to be performed late July 2016. RV Discovery will perform post survey of the 2 export cables from landfall to the OSS location. This work is planned to be performed from mid until late July, 2016. Topaz Installer will perform export cable repair. This work is planned to be performed early until late July, 2016, at the cable splice location.

Guard Vessel

The Adventure will act as a guard vessel to safe guard the wind farm area. During port calls, Advance will be her back-up. Adventure will be on location from end April expected to be completed late October. The export cable shall be spliced and the Rachael S will act as guard vessel at the cable jointing location from mid April 2016.

General

MARINERS ARE HEREBY INFORMED that a statutory construction Safety Zone (exclusion zone) is in place at the wind farm site. This safety zone is defined by: A 500 metres radius around each wind turbine, offshore sub-station and their foundations whilst work is being performed as indicated by the presence of construction vessels; and A 50 metres radius around each wind turbine, the offshore sub-station platform and associated foundation structures installed, complete or incomplete but waiting to be commissioned as part of the Dudgeon offshore wind farm where personnel are present on, or are being landed on or being taken from, the structures. All vessels will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea.

Navigation Buoys demarcating the Dudgeon Offshore Wind Farm site

Mark	Name	Coordinates	Status	Flash Character
Special Mark	DOW - SM - N	53°17.631'N 01°23.919'E	Temporary	Fl.Y.5s
North Cardinal	NE - DOW	53°16.277'N 01°26.691'E	Temporary	VQ
East Cardinal	E- DOW	53°14.320'N 01°27.123'E	Temporary	VQ(3).5s
South Cardinal	S-DUDGEON	53°12.470'N 01°25.617'E	Permanent	VQ(6) long Fl.10s
Special Mark	DOW - SM - S	53°14.012'N 01°22.132'E	Temporary	Fl.Y.5s
South Cardinal	SW - DOW	53°15.451'N 01°19.188'E	Temporary	Q(6) long Fl.15s

Dudgeon Cable Corridor Coordinates		Dudgeon Cable Corridor Coordinates	
53° 13.462'N	01° 24.174'E	52° 56.950'N	01° 08.740'E
53° 15.230'N	01° 20.360'E	52° 57.230'N	01° 09.600'E
53° 14.140'N	01° 20.820'E	52° 59.220'N	01° 11.920'E
53° 12.990'N	01° 20.370'E	53° 00.430'N	01° 13.410'E
53° 10.090'N	01° 18.540'E	53° 01.760'N	01° 15.080'E
53° 02.750'N	01° 13.780'E	53° 09.580'N	01° 20.190'E
53° 01.720'N	01° 13.040'E	53° 12.750'N	01° 22.120'E
53° 01.490'N	01° 12.230'E	53° 13.420'N	01° 22.120'E
53° 01.300'N	01° 07.830'E	53° 13.462'N	01° 24.174'E
52° 57.100'N	01° 07.500'E		

For further information: Stig J. Andersen, Statoil ASA Tel: +47 95243448 email: stja@statoil.com

Area 3

30 June 2016 | Issue 14

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Seabed Activity

First Published: 19 November 2015 | Latest Update: 30 June 2016

Race Bank Offshore Wind Farm – Construction Work

 [Map Link](#)

Construction work at the Race Bank Offshore Wind Farm is underway. Dong are advising the "Fishing Clearance Zone", including the wind farm perimeter and export cable corridor, is closed to fishing. If required, Dong should be contacted to discuss this.



Work will consist of cable laying, foundation and WTG & Sub Station installation, surveys and other associated works to enable the development of the Wind Farm. The works are anticipated to run until 31st August 2018.

Demarcation buoys deployed on the 5th February 2016 will mark the main array at the following locations:

North Cardinal Buoy	53° 20.333' N 0° 46.096' E	Special Mark Buoy	53° 12.985' N 0° 53.459' E
North Cardinal Buoy	53° 20.291' N 0° 49.434' E	Special Mark Buoy	53° 14.610' N 0° 48.460' E
Special Mark Buoy	53° 17.533' N 0° 50.975' E	Special Mark Buoy	53° 17.764' N 0° 45.822' E
Special Mark Buoy	53° 15.696' N 0° 56.311' E		

ALL VESSELS ARE REQUESTED to navigate with caution when in the vicinity of construction vessels. Please keep a minimum of 500 meters from vessels in operation. All vessels working within the site will exhibit the lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea and will maintain a listening watch on IMM VHF 16.

MARINERS ARE ADVISED to monitor VHF 16 when navigating in the vicinity of construction vessels.

For further information: Rebecca Goff, DONG, Tel: 0044 776 170914 rebgo@dongenergy.co.uk

Seabed Activity

First Published: 07 April 2016 | Latest Update: 26 June 2016

Galopper Offshore Wind Farm – Explosive Ordnance & Cable Works

 [Map Link](#)

Please be advised that the export cable installation campaign shall commence circa 27th June 2016 with the following activities expected to take place:



27th June 2016 for approx. 1 month - Survey Works:

- RV Discovery - Survey Works of the Export Cable Route.
- CRC Argosy - Survey Works of the Near Shore Export Cable Route.
- CRC Hercules – Substitute vessel for CRC Argosy.

1st July 2016 for approx. 1 month – Cable Vessel Plough Trials:

- Ndurance – Cable Installation Vessel carrying out cable plough trials within the Galopper Offshore Wind Farm boundary and Export Cable Route.
- Sea Bravo – Anchor Handling Tug supporting Ndurance.
- Barney – Anchor Handling Tug supporting Ndurance.

1st July for approx. 1 month – Concrete Mattress Installation / Out of Service Cable Removal:

- Vos Star – Concrete Mattress Installation at various locations within the Export Cable Route / Out of Service
- Cable Removal of the Atlantic Crossing 1 cable (eastern end of Galopper Wind Farm and also crossing the Sunk
- TSS).
- Dalby Esk – Crew Transfer Vessel supporting the Vos Star.

Identified UXO's

52°00.938'N	01°54.450'E	51°58.559'N	02°01.062'E
52°03.769'N	01°48.303'E	51°59.504'N	01°59.740'E
52°03.233'N	01°48.840'E	51°59.336'N	01°58.336'E
52°03.056'N	01°49.351'E	51°58.842'N	02°00.737'E
52°05.309'N	01°47.365'E	51°55.616'N	02°00.529'E
52°05.599'N	01°47.263'E	51°55.569'N	02°01.545'E
52°09.928'N	01°42.815'E	51°57.953'N	02°01.042'E
52°09.439'N	01°43.079'E	51°57.928'N	02°01.056'E
51°45.449'N	02°01.573'E		

Area 3

30 June 2016 | Issue 14

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In the interim period prior to disposal all vessels are advised to avoid the item's location by a 300m radius from the position highlighted above. A larger safety distance will be implemented during positive EOD operations and this will be notified in due course.

Kingfisher Awareness Fliver: Galloper Offshore Wind Farm

For further information: Lee Cornwell, Galloper Wind Farm Limited, Mob: +44 (0)7917 474352, Email: lee.cornwell@rwe.com

Seabed Activity

First Published: 19 May 2016 | **Latest Update: 26 June 2016**

London Array Offshore Wind Farm – Wave Buoy Deployment

Please be advised that an additional wave rider buoy has been deployed within the area of London Array Offshore Wind Farm, designation – Long Sand Middle



New Wave Buoy

Identity	Coordinates	Light
Long Sand (Middle)	51°40.828'N 01°31.177'E	Fl (5) Y 20s 2nm

Description of wave rider buoy: Yellow spherical buoy, transparent top dome with solar panels and flashing light.

Existing Wave Buoy

Identity	Coordinates	Light
Knock Deep (North)	51°37.064'N 01°30.364'E	Fl (5) Y 20s 2nm

The Knock Deep North wave rider buoy is protected by 2 guard buoys stationed approximately 50 - 100 meters to the North and South.

Identity	Coordinates	Light
Guard Buoy (North)	51°37.105'N 01°30.467'E	Fl (5) Y 20s 2nm
Guard Buoy (South)	51°37.058'N 01°30.307'E	Fl (5) Y 20s 2nm

Description of wave rider buoy: Yellow spherical buoy, transparent top dome with solar panels and flashing light. Description of guard buoys: Yellow spar with flashing light and radar reflector.

For further information: Duty Marine Coordinator, Tel: +44 1843 855 795 email: marinecoordinators@londonarray.com

Seabed Activity

First Published: 03 December 2015 | **Latest Update: 25 May 2016**

Rampion Offshore Wind Farm – Rock, UXO, Buoys and Safety Zones

Please be advised that the installation vessel **Storness** will be installing Rock Pads at locations in the Main Array Area commencing operations on 28th June 2016 operations are due to last 5 days' weather permitting.



Confirmed UXO 2 x 500 pound British bombs have been deployed and mariners are advised to keep a 500m exclusion/safety zone around the marker. Once the UXO has been retrieved or disposed of the buoys will be removed and an updated NTM will be distributed.

Name	Coordinates
UXO No 1	50°47.511'N 00°19.173'W
UXO No 2	50°47.501'N 00°19.162'W
Special Mark No1	50°47.474'N 00°19.164'W

The current lattice structure has failed and will be replaced in due course.

Met Mast	50°41.287'N 00°20.594'W
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Special Yellow marker buoys with 2-3nm yellow light which flashes 1 sec every 5 seconds.

Ongoing Works will take place when weather permits to commission the AIS on the cardinals.

Cardinal Buoy Positions	Cardinal Buoy Positions
50°41.375'N 00°21.901'W	50°39.170'N 00°11.365'W
50°42.072'N 00°17.095'W	50°38.399'N 00°16.149'W

Offshore Wind and Marine Renewables

Area 3

30 June 2016 | Issue 14

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50°42.769'N 00°12.284'W	50°37.629'N 00°20.928'W
50°41.051'N 00°11.310'W	50°39.439'N 00°21.931'W

Safety Zone Application

- Rampion Offshore Wind Farm - Application of Safety Zones during construction
- The Secretary of State Mr Kieth Welford has approved the Application of Safety Zones on the project.
- A Statutory 500m Safety Zone around all structures where a construction vessel is present.
- A Statutory 50m Safety Zone around all structures including the Offshore Sub Station whilst personnel are working on said locations

For further information: Gordon Bain (Eon Marine Coordination) +44(0)7787241442 email leadmc@rampionoffshore.com

Survey Activity

First Published: 05 May 2016 | Latest Update: 05 May 2016

Hornsea Project Three Offshore Wind Farm – Survey

Mariners are advised that Hornsea Project Three will be carrying out geophysical investigations located within the UK Sector of the North Sea off the coast of East Yorkshire.

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration
Dong Energy MV Neptune TFNX MV Northern Wind SHLQ	1. 53°40.866'N 002°48.241'E 2. 53°48.198'N 002°23.461'E 3. 53°59.671'N 002°10.976'E 4. 54°00.405'N 002°41.223'E	09/05/16 For 10 Weeks



For further information: Julian Carolan, DONG, Tel: 0207 811 5471 email: julca@dongenergy.co.uk

Area 4

30 June 2016 | Issue 14

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Deployment of Buoys

First Published: 02 June 2016 | **Latest Update: 14 June 2016**

Wave Hub – Subsea Cable Installation

From 3 June 2016 there will be a pause in the offshore installation works. The work schedule has been extended to allow equipment modifications to take place onshore.



The offshore cable installation work to continue later this month. No new cable has yet been laid and mariners are requested to give the charted Wave Hub Safety Zone a wide berth as usual during this period.

the Wave Hub Wave Data Buoy installed at the Wave Hub offshore site and managed by Fugro Emu Limited remains on station and operational.

The buoy's assigned position is: 50° 20.833'N 005° 36.853'W

The buoy and related servicing works will generally be confined within the charted Wave Hub Safety Zone which mariners should avoid as usual.

The data from the buoy is publicly available for the benefit of all mariners operating in the area:
<http://www.wavehub.co.uk/wave-hub-site/live-wave-data>

For further information: Julius Besterman, Wave Hub, Tel: 01736 800291 email: Julius.besterman@wavehub.co.uk

Area 5

30 June 2016 | Issue 14

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Seabed Activity

First Published: 24 March 2016 | **Latest Update: 25 June 2016**

Burbo Bank Extension – Construction Activities

Fifteen Mono-Piles complete with Transition Pieces have now been installed by the Crane Ship (installation vessel) 'SVANEN' at the Burbo Bank Extension.

'SVANEN' is serviced by the two Anchor Handling Vessels 'VIKING' and 'MARTINE P' and a 500 meter Safety Exclusion Distance is requested around 'SVANEN' at all times while this vessel is on site.

The Heavy Lift Vessel 'STANISLAV YUDIN' is on site to install the Sub-Station and a minimum 500 meter Safety Exclusion Distance is also requested around this vessel.

'STANISLAV YUDIN' will be serviced by the two Anchor Handling Vessels 'VIKING' and 'MARTINE P'.

Any Mono-Piles installed without the Transition Piece will be marked with a lit buoy while waiting for the Transition Piece to be installed and the position will be monitored by the Guard Boat.



Notice to Mariners issued by Van Oord Offshore Wind Projects BV detailing the installation of a Triaxy (Scientific) Buoy at the Burbo Bank 2 (Extension) Windfarm Site.

The Buoy is scheduled to be installed during the next few days and can be expected to be on site for a maximum period of 4 months, and will be placed in position :

53°29.624'N 003°15.005'W

(The Buoy will emit a quick flash amber light and be visible for approx. 3 miles)

Two Wave Buoys and one Acoustic Recorder Buoy have been deployed at the proposed Burbo Bank 2 (Extension) Wind Farm Site.

Buoys	Location
Wave Buoy	53°29.101'N 003°15.530'W
Wave Buoy	53°30.114'N 003°21.688'W
Acoustic Recorder Buoy	53°28.999'N 003°15.530'W

A series of CARDINAL and SPECIAL MARKER BUOYS are to be deployed at the proposed Burbo Bank 2 (EXTENSION) WIND FARM SITE to mark what will become the construction area and all mariners are requested and advised to mark the positions of these Buoys on their charts/plotters.

The Buoys are scheduled to be deployed on or around Friday 1st April and will remain in place to mark the construction site until the Wind Farm is built and fully commissioned

Buoy Ref.	Location	Type
NM1	53°30.343'N 003°22.929'W	North Cardinal QFI
NM2	53°30.371'N 003°18.284'W	Special mark FI Y 2.5s
NM3	53°30.390'N 003°14.040'W	Special mark FI Y 5s
NM4	53°27.610'N 003°11.625'W	South Cardinal Q(6) + L FI 15s
NM5	53°27.604'N 003°15.159'W	Special mark FI Y 2.5s
NM6	53°27.600'N 003°18.774'W	South Cardinal VQ(6) + L FI 10s
NM7	53°28.970'N 003°21.001'W	Special Mark FI Y 2.5s

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

Area 5

30 June 2016 | Issue 14

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Seabed Activity

First Published: 02 June 2016 | **Latest Update: 16 June 2016**

West of Duddon Sands OWF – Scour protection rock dumping

Additional rock protection is to be laid at a number of locations along the WDS export cable at the below locations. The Work is scheduled to start no earlier than Friday 17th June and will be carried out by the Tideway vessel 'Flintstone' and is expected to last for approx. 6 weeks



The vessel requests a 500m safety radius with permission to enter being given direct via the vessel after initial contact on VHF 16.

Subsea Cable Length From	Subsea Cable Length To
53°57.912'N 003°06.677'W	53°57.910'N 003°06.718'W
53°57.907'N 003°06.772'W	53°57.906'N 003°06.796'W
53°58.022'N 003°07.817'W	53°58.033'N 003°07.872'W
53°58.062'N 003°08.026'W	53°58.068'N 003°08.062'W
53°58.073'N 003°08.086'W	53°58.080'N 003°08.122'W
53°58.173'N 003°08.565'W	53°58.179'N 003°08.592'W
53°58.363'N 003°09.496'W	53°58.366'N 003°09.513'W
53°58.372'N 003°09.550'W	53°58.375'N 003°09.567'W
53°58.388'N 003°09.647'W	53°58.410'N 003°09.765'W
53°58.416'N 003°09.798'W	53°58.437'N 003°09.878'W
53°58.453'N 003°09.947'W	53°58.461'N 003°09.982'W
53°58.465'N 003°10.002'W	53°58.469'N 003°10.017'W
53°58.471'N 003°10.029'W	53°58.485'N 003°10.087'W
53°58.701'N 003°11.020'W	53°58.705'N 003°11.042'W
53°58.709'N 003°11.065'W	53°58.716'N 003°11.107'W
53°58.745'N 003°11.257'W	53°58.751'N 003°11.287'W
53°58.757'N 003°11.313'W	53°58.767'N 003°11.355'W
53°58.771'N 003°11.376'W	53°58.788'N 003°11.451'W
53°58.793'N 003°11.473'W	53°58.799'N 003°11.498'W
53°58.801'N 003°11.508'W	53°58.806'N 003°11.531'W
53°58.820'N 003°11.626'W	53°58.824'N 003°11.655'W
53°58.827'N 003°11.682'W	53°58.832'N 003°11.709'W
53°58.931'N 003°12.421'W	53°58.934'N 003°12.435'W
53°59.057'N 003°13.411'W	53°59.060'N 003°13.437'W
53°59.073'N 003°13.545'W	53°59.079'N 003°13.591'W
53°59.176'N 003°14.400'W	53°59.180'N 003°14.427'W
54°00.476'N 003°17.541'W	54°00.484'N 003°17.555'W
54°00.491'N 003°17.567'W	54°00.502'N 003°17.585'W
54°01.116'N 003°18.632'W	54°01.126'N 003°18.662'W
54°01.138'N 003°18.700'W	54°01.144'N 003°18.725'W
54°01.150'N 003°18.751'W	54°01.161'N 003°18.814'W
53°58.373'N 003°09.717'W	53°58.376'N 003°09.738'W
53°58.489'N 003°10.234'W	53°58.501'N 003°10.277'W
53°59.510'N 003°01.466'W	53°59.404'N 003°01.691'W
54°00.294'N 002°57.742'W	54°00.257'N 002°58.038'W

[Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm](#)

For further information: Gavin Scarff, DONG, [Tel:+44 20 7811 5253](tel:+442078115253) email: gavsc@dongenergy.co.uk

Area 5

30 June 2016 | Issue 14

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Seabed Activity

First Published: 19 November 2013 | Latest Update: 16 June 2016

Robin Rigg Offshore Wind Farm – Diving & Equipment Recovery

The 11.4 meter Dive Support Vessel 'Calmar' is scheduled to arrive on site tomorrow, Friday 17th, to carry out diving operations & equipment recovery at and around Turbine F05.

A 500 meter safety exclusion distance is requested around 'Calmar' at all times while on site as at any time there will be Divers in the water. This work is expected to last for one day

Fishermen are requested and advised not to set any gear close to any of the above mentioned Turbine positions.

For more information on the boundaries of the 50 metre Advisory Safety Distances, ensure that you have the latest KIS-ORCA information installed. This can be downloaded from www.KIS-ORCA.eu.

A yellow and lit marker buoy, 1 meter in diameter at the waterline with characteristics fl. y 5s has been dropped to mark the position of a temporary underwater obstruction at the partially removed turbine A1 at the following position:

54°46.3'N 03°42.10'W

[Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm](#)

[Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm](#)



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

Seabed Activity

First Published: 17 December 2013 | Latest Update: 14 June 2016

West of Duddon, Walney 1 & 2, Barrow & Burbo – Diving Operations

A programme of underwater inspections that will involve extensive Diving Operations at selected Turbine and Sub-Station locations at all five of the DONG operated Wind Farms in the Eastern Irish Sea.

The Dive Support Vessel 'HBC SUPPORTER' will today conduct Diving and R.O.V. Operations at the WALNEY 1 WIND FARM Sub-Station which are expected to last for two days. Anchor Position Marker Buoys will at times be left in place at recently inspected Turbine positions in the WEST of DUDDON SANDS WIND FARM during the night, these buoys will be lit during the hours of darkness.

The weather and conditions will be monitored at all times and will determine which Turbine or Sub-Station the DIVERS will access on any given day and it should also be noted that the underwater inspections involve not only extensive DIVING OPERATIONS but also at times the deployment of an R.O.V. A 500 meter safety exclusion zone is requested around 'HBC SUPPORTER' at all times while on site as at any time there will be DIVERS in the water.

'HBC SUPPORTER' will display the ALPHA FLAG from the mast as well as on a wooden board attached to either side of the bridge which will be illuminated at night.

WEST of DUDDON SANDS -Turbines still to be inspected A01, D03, D05, D06, E11, F01, G03, H07, H10, H11, H13, I04, I06, I07, J01, J06, J09, J12,

As DIVERS will access Turbine position according to the conditions of weather and tide at the time fishermen are requested and advised to avoid setting any pots within 500 meters of any of the above mentioned Turbines during this period. A listening watch will be kept on VHF Channels 16 & 12 and 'HBC SUPPORTER' can be contacted for information relating to DIVING OPERATIONS only

Fishermen using pots are requested to note the Turbines to be inspected in each of the Wind Farms in the list below and remove their gear away from any Turbine on that list, to at least 500 meters, when informed that the DIVE SUPPORT VESSEL will be operating in that Wind Farm. For more information on the boundaries of the 50 metre Advisory Safety Distances, ensure that you have the latest KIS-ORCA information installed. This can be downloaded from www.KIS-ORCA.eu

You are advised to use Dhan Buoys anchored towards the middle of the lane with a long weighted feed line rather than Marker Buoys that can be moved by the strong tides and so foul the Turbines.



Area 5

30 June 2016 | Issue 14

For 'live' Kingfisher updates of offshore activities, visit www.kis-orca.eu and follow [@KingfisherInfo](https://twitter.com/KingfisherInfo) on Twitter

Further DIVING OPERATIONS will be carried out at the WEST of DUDDON SANDS, WALNEY 2 and BURBO BANK OFFSHORE WIND FARMS.

The full programme will run for a period of approx. two / three months, depending on weather and conditions and DIVERS will carry out inspection at the following Turbine and Sub-Station locations :

- 1) 26 Turbines at WEST of DUDDON SANDS - as above
- 2) The Sub-Station at WALNEY 1 - Sub-Station
- 3) 9 Turbines as well as the Sub-Station at WALNEY 2 - Sub-Station, A16, A17, C14, C15, E09, E10, F13, F14.
- 4) 6 Turbine at the BURBO BANK 1 WIND FARM -- BB13, BB15, BB27, BB29, BB31, BB33.

[Kingfisher Awareness Flyer: Walney 1 & 2 Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm](#)

[Kingfisher Awareness Flyer: Burbo](#) [Kingfisher Awareness Flyer: Barrow](#)

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

Seabed Activity

First Published: 05 May 2016 | Latest Update: 05 June 2016

Walney Extension (WOWO3-4) Export Cable – Ducts at Middleton Sands

Work on preparing the landfall positions at the intertidal zone off Middleton Sands in readiness for the proposed WALNEY EXTENSION (WOWO3-4) WIND FARM EXPORT CABLES. There is a slight delay with the installation of two ducts under the saltmarsh at Middleton sands.



The Tug 'Schwartenbek' and the two ducts are currently in the Eastern Irish Sea, to the South of the Isle of Mann, but delivery to landfall site at Middleton Sands will be delayed until Tuesday 7th June at the earliest.

When required on site the two ducts of approximately 450m in tow will be transited into Morecambe Bay keeping to the south of the existing Walney and West of Duddon Sands Offshore Wind farms

Once in Morecambe Bay the Tug 'Schwartenbek' will transfer the two ducts to the work vessels 'Lesley M' and 'VITAL'

In the event that tidal conditions are not suitable for landing at Middleton Sands the ducts may be temporarily moored close to Buoys No. 5 and 7 but will remain outside of the shipping channel and will be marked appropriately. The three vessels 'Schwartenbek' 'Lesley M' and 'Vital' will stay with the ducts at all times and as soon as the tidal conditions become favourable the ducts will be moved to Middleton Sands.

The ducts will be temporarily stored on the beach at Middleton sands in close proximity to Mean High Water prior to installation and during this time a 10 meter Cheetah Catamaran 'SHAMAL' will act as Guard Boat, this vessel can, if required, dry out on the sand.

During transit/delivery the ducts will be appropriately buoyed and marked and fitted with radar reflectors, and to mitigate any navigational/collision risk there will also be a standard yellow ribbon painted on each at 5 meter intervals in order to increase visibility.

To mark the end of the tow there will be a continuous quick flash light with an additional radar reflector as well as an A7 Polyform marker buoy.

[Kingfisher Awareness Flyer: Walney 1 & 2 Offshore Wind Farm](#)

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

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Local Awareness Charts

Chart	Area	Location	Turbines	Developer	Completed	Link
Barrow	5	7km dudgeon Island	30	DONG Energy	1 Jul 2006	Download
Burbo Bank	5	5.2km Crosby	25	DONG Energy	27 Oct 2007	Download
Galloper	3	27km off Suffolk Coast	56	Galloper Wind Farm Ltd	-	Download
Greater Gabbard	3	26km off Orford, Sufflk	140	SSE & RWE Npower Ren	7 Sept 2012	Download
Gwynt y Mor	5	13km off N Wales Cst	160	RWE Innogy / SWM / Siemens	18 Jun 2015	Download
Gunfleet Sands 1, 2 & 3	3	8.5km off Clacton-On-S	50	DONG Energy	19 April 2010	Download
Humber Gateway	3	8km off Holdrns Cst	73	E.ON UK	5 Jun 2015	Download
Kentish Flats	3	9km off Whitstable	30	Vattenfall	1 Oct 2015	Download
Lincs	3	8km off Skegness	75	Centrica / DONG / Siemens	10 Oct 2013	Download
London Array	3	24km off Clacton-on-S	175	DONG Energy / E.On / Masdar	1 May 2013	Download
Lynn and Inner Dowsing	3	5km off Skegness	54	Centrica	30 Mar 2009	Download Download
North Hoyle	5	7.5km off Prestatyn	30	RWE Npower Renewables	1 Dec 2003	Download
Ormonde	5	off Walney Island	30	Vattenfall	22 Feb 2012	Download
Rhyl Flats	5	8km Abergele	25	RWE Npower Renewables	2 Dec 2009	Download
Robin Rigg	5	9.5km Maryport	60	E.ON UK Renewables	16 Apr 2010	Download
Scroby Sands	3	3km NE Great Yarmth	30	E.ON UK Renewables	1 Mar 2004	Download
Sheringham Shoal	3	Sheringham, Grtr Wash	88	Scira Offshore Energy Ltd	27 Sep 2007	Download
Teeside	3	1.5km NE Teesmouth	27	EdF ER	1 Aug 2013	Download
Thanet	3	11km Foreness Point	100	Vatenfall	23 Sept 2010	Download
Walney 1 & 2	5	14km Walney Island	102	DONG Energy / SSE (+ prtncrs)	9 Jan 2012	Download
West of Duddon Sands	5	14km Walney Island	108	Scottish Power / DONG Energy	30 Oct 2014	Download
Westermost Rough	3	25km north of Spurn P	35	DONG Energy	26 Mar 2015	Download

National Awareness Charts

Chart	Link
North West Approaches & North Sea North	Download
North Sea Central	Download
North Sea South	Download
English Channel	Download
South Western Approaches	Download
Irish Sea	Download

National Fishing Plotter Files

File	Link
Kingfisher Fishing Plotter Files – KIS-ORCA January 2016 (Subsea Cables and Wind Farms)	Download