

# **Notice to Mariners – Offshore**

Fugro Frontier; Atlantis Dweller; Normand Flower; Despina; Fugro Pioneer

F154991-NtM Offshore (05) | 27 July 2020

For Issue

**Scottish Power Renewables** 



# **Document Control**

### **Document Information**

Project Title	Scottish Power Renewables East Anglia HUB – Site Investigation
Document Title	Notice to Mariners – Offshore
Fugro Project No.	F154991
Fugro Document No.	F154991-NtM Offshore
Issue Number	05
Issue Status	For Issue
Document Owner	Humphrey Capon
Entity	FGBML

### **Client Information**

Client	Scottish Power Renewables
Client Address	3rd Floor, 1 Tudor Street, London EC4Y 0AH
Client Contact	Alex Lowther
Client Document No.	F154991-NtM Offshore

### **Revision History**

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
00	10 June 2020	For Comments	Draft for client input	НС		
01	12 June 2020	For Approval	Revised draft for approval: Section 1 Introduction updated; Section 2 Area of Operations updated; Section 4.2 Atlantis Dweller updated	НС		
02	12 June 2020	For Issue	Final for issue	НС	GP	SPR
03	07 July 20200	For Issue	Revised: Section 1 Introduction updated; Section 3 Survey Investigations updated; Section 5 Survey Vessels updated.	МС	НС	SPR
04	15 July 2020	For Issue	Revised: Section 3 Survey Investigations updated; Section 5 Survey Vessels updated	МС	НС	SPR
05	27 July 2020	For Issue	Revised: Section 3 Survey Investigations updated; Section 5 Survey Vessels updated	МС	НС	SPR

# **Project Team**

Initials	Name	Role		
НС	Humphrey Capon	Project Manager		
MC	Mark Crawshaw	Assistant Project Manager		



KJ	Kate Jackson	Vessel Project Manager
EvdO	Eisse van den Oever	Vessel Project Manger
RM	Ross MacNeil	Vessel Project Manger
KK	Kurt Kleppe	Vessel Project Manager
MS	Mark Schreiber	Vessel Project Manager
GP	Gertjan Paff	Project Director



### **Contents**

1.	Introdu	uction	1
2.	Area of	f Operations	2
2.1	EA1N -	OWF	2
2.2	EA1N -	· ECC	2
2.3	EA2 - C	DWF	3
2.4	EA2 – E	ECC	4
3.	Offsho	re Survey Investigations	1
3.1	Offshor	re Geophysical Investigation – EA2 – OWF & ECC	1
	3.1.1	Fugro Frontier	1
	3.1.2	Atlantis Dweller	1
	3.1.3	Fugro Pioneer	1
3.2	Offshor	re Geophysical Investigation – EA1N – OWF & ECC	2
	3.2.1	Fugro Frontier	2
	3.2.2	Atlantis Dweller	2
	3.2.3	Fugro Pioneer	2
3.3	Offshor	re Geotechnical Investigation – EA2 – OWF & ECC	3
	3.3.1	Normand Flower	3
	3.3.2	Despina	3
3.4	Offshor	re Geotechnical Investigation – EA1N – OWF & ECC	3
	3.4.1	Normand Flower	3
	3.4.2	Despina	4
4.	Immed	liate Contacts	5
5.	Survey	Vessels	7
6.	Distrib	ution List	10

# **Appendices**

#### **Appendix A** Buffer Zone Drawings

# Figures in the Main Text

Figure 1: Project Location

1

# **Tables in the Main Text**



Table 2.1: East Anglia One North Windfarm Boundary Perimeter Coordinates	2
Table 2.2: East Anglia One North Export Cable Corridor Boundary Perimeter Coordinates	2
Table 2.3: East Anglia Two Windfarm Boundary Perimeter Coordinates	3
Table 2.4: East Anglia Two Export Cable Corridor Boundary Perimeter Coordinates	4
Table 5.1: Fugro Frontier	7
Table 5.2: Atlantis Dweller	7
Table 5.3: Normand Flower	8
Table 5.4: Despina	8
Table 5.5: Fugro Pioneer	9
Table 6.1: Distribution List	10



### 1. Introduction

Scottish Power Renewables (SPR) has contracted Fugro GM Marine Limited (Fugro) to carry out a geophysical and geotechnical site investigation located east of Lowestoft, United Kingdom, in the southern North Sea and covers an area of approximately 5,900 km2 for the proposed East Anglia HUB offshore windfarm site.

The East Anglia HUB offshore windfarm site is split onto three zones: East Anglia ONE North (EA1N); East Anglia TWO (EA2); and East Anglia THREE (EA3). Initially, Fugro will be operating across EA1N and EA2 in parallel.

This Notice to Mariners will be updated and reissued periodically as additional vessel are planned to come on site. For operations in 2020, current planning indicates a total of 6 vessels being on site between the period 9<sup>th</sup> July 2020 and 16<sup>th</sup> October 2020. It should be noted these dates are subject to change and the total number of vessels could increase.

Fugro will distribute updated revisions of this notice as early possible before any additional vessels arrive on site. The details of the vessel's survey and their estimated schedule will be included in section 3. Offshore Survey Investigations. Any additional contact details will be included in section 4. Immediate Contacts. Additional vessel's details will be included in section 5. Survey Vessels.

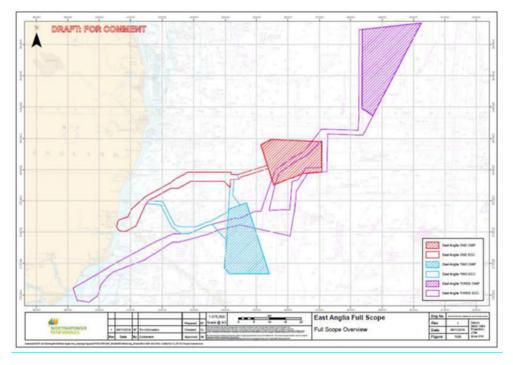


Figure 1: Project Location



# 2. Area of Operations

The accompanying drawings in Appendix A indicates the areas within which the survey will be carried out. The coordinates of the survey area are also provided below.

#### 2.1 EA1N - OWF

Table 2.1: East Anglia One North Windfarm Boundary Perimeter Coordinates

	WGS 84 / UTM Zone 31N		World Geodetic System (WGS84)							
Ref ID	(Metres)		(Decimal Degrees)		(Degrees Decimal Minutes)		(Degrees Minutes Seconds)			
	Eastings (m)	Northin gs (m)	Latitude (DD)	Longitu de (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)		
1	470740.06	5799228.57	52.3425773	2.5704969	52° 20.554639' N	2° 34.229815′ E	52° 20' 33.2783" N	2° 34' 13.7889" E		
2	464729.09	5798828.35	52.3386256	2.4823083	52° 20.317535' N	2° 28.938498' E	52° 20' 19.0521" N	2° 28' 56.3099" E		
3	455485.87	5794974.99	52.3033121	2.3471587	52° 18.198726' N	2° 20.829524' E	52° 18' 11.9235" N	2° 20' 49.7714" E		
4	451335.97	5807927.49	52.4193992	2.2844229	52° 25.163950' N	2° 17.065377' E	52° 25' 9.8370" N	2° 17' 3.9226" E		
5	454597.32	5809687.84	52.4355046	2.3321364	52° 26.130279' N	2° 19.928186' E	52° 26' 7.8167" N	2° 19' 55.6912" E		
6	470803.98	5808950.90	52.4299855	2.5705879	52° 25.799131' N	2° 34.235276' E	52° 25' 47.9479" N	2° 34' 14.1166" E		

#### 2.2 EA1N - ECC

Table 2.2: East Anglia One North Export Cable Corridor Boundary Perimeter Coordinates

	WGS 84 / UTM Zone 31N		World Geodetic System (WGS84)						
Ref ID	(Metres)		(Decimal	Degrees)	(Degrees Deci	(Degrees Decimal Minutes)		(Degrees Minutes Seconds)	
	Eastings (m)	Northin gs (m)	Latitude (DD)	Longitu de (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)	
1	411742.62	5781969.62	52.1811289	1.7091532	52° 10.867734' N	1° 42.549195' E	52° 10' 52.0640" N	1° 42' 32.9517" E	
2	408662.85	5780314.80	52.1657536	1.6645674	52° 9.945217' N	1° 39.874042' E	52° 9' 56.7130" N	1° 39' 52.4425" E	
3	407775.62	5780204.00	52.1646101	1.6516292	52° 9.876607' N	1° 39.097754' E	52° 9' 52.5964" N	1° 39' 5.8652" E	
4	407289.34	5780229.16	52.1647548	1.6445148	52° 9.885288' N	1° 38.670890' E	52° 9' 53.1173" N	1° 38' 40.2534" E	
5	406125.91	5780670.87	52.1685283	1.6273879	52° 10.111697' N	1° 37.643275' E	52° 10' 6.7018" N	1° 37' 38.5965" E	
6	405481.77	5781874.48	52.1792365	1.6176369	52° 10.754192' N	1° 37.058215' E	52° 10' 45.2515" N	1° 37' 3.4929" E	
7	405834.55	5782754.13	52.1872032	1.6225506	52° 11.232194' N	1° 37.353036' E	52° 11' 13.9317" N	1° 37' 21.1822" E	
8	405895.96	5784884.08	52.2063578	1.6228569	52° 12.381468' N	1° 37.371415' E	52° 12' 22.8881" N	1° 37' 22.2849" E	
9	407658.35	5785271.22	52.2101356	1.6485348	52° 12.608133' N	1° 38.912088' E	52° 12' 36.4880" N	1° 38' 54.7253" E	
10	408775.05	5784810.57	52.2061811	1.6649975	52° 12.370868' N	1° 39.899850' E	52° 12' 22.2521" N	1° 39' 53.9910" E	
11	409225.04	5784921.41	52.2072517	1.6715512	52° 12.435104' N	1° 40.293070' E	52° 12' 26.1063" N	1° 40' 17.5842" E	
12	410146.14	5787101.56	52.2269984	1.6844482	52° 13.619903' N	1° 41.066894' E	52° 13' 37.1942" N	1° 41' 4.0136" E	
13	414761.89	5791276.90	52.2652620	1.7509560	52° 15.915718' N	1° 45.057360' E	52° 15' 54.9431" N	1° 45' 3.4416" E	
14	422830.58	5795787.48	52.3069980	1.8681321	52° 18.419878' N	1° 52.087926' E	52° 18' 25.1927" N	1° 52' 5.2756" E	
15	424600.25	5797189.67	52.3198478	1.8937689	52° 19.190865' N	1° 53.626137' E	52° 19' 11.4519" N	1° 53' 37.5682" E	



	WGS 84 / UTM Zone 31N		World Geodetic System (WGS84)						
Ref ID	(Me	tres)	(Decimal	Degrees)	(Degrees Deci	(Degrees Decimal Minutes)		nutes Seconds)	
	Eastings (m)	Northin gs (m)	Latitude (DD)	Longitu de (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)	
16	428034.22	5799241.10	52.3387489	1.9437019	52° 20.324934' N	1° 56.622115' E	52° 20' 19.4961" N	1° 56' 37.3269" E	
17	441872.22	5799240.99	52.3403890	2.1467858	52° 20.423341' N	2° 8.807148' E	52° 20' 25.4004" N	2° 8' 48.4289" E	
18	441845.45	5798524.28	52.3339434	2.1465169	52° 20.036604' N	2° 8.791017' E	52° 20' 2.1962" N	2° 8' 47.4610" E	
19	444052.52	5798500.07	52.3339553	2.1789084	52° 20.037318' N	2° 10.734506' E	52° 20' 2.2391" N	2° 10' 44.0704" E	
20	453417.45	5801430.87	52.3611777	2.3159309	52° 21.670661' N	2° 18.955854' E	52° 21' 40.2396" N	2° 18' 57.3513" E	
21	453737.82	5800430.91	52.3522154	2.3207732	52° 21.132926' N	2° 19.246391' E	52° 21' 7.9755" N	2° 19' 14.7834" E	
22	444760.28	5797621.35	52.3261277	2.1894389	52° 19.567663' N	2° 11.366336' E	52° 19' 34.0598" N	2° 11' 21.9802" E	
23	444288.46	5796897.39	52.3195719	2.1826363	52° 19.174315' N	2° 10.958180' E	52° 19' 10.4589" N	2° 10' 57.4908" E	
24	441685.68	5796925.94	52.3195582	2.1444497	52° 19.173492' N	2° 8.666981' E	52° 19' 10.4095" N	2° 8' 40.0188" E	
25	441498.51	5794215.22	52.2951703	2.1421750	52° 17.710221' N	2° 8.530502' E	52° 17' 42.6133" N	2° 8' 31.8301" E	
26	439579.91	5796143.32	52.3122951	2.1136996	52° 18.737708' N	2° 6.821979' E	52° 18' 44.2625" N	2° 6' 49.3187" E	
27	428889.09	5796143.23	52.3110138	1.9569023	52° 18.660826' N	1° 57.414140' E	52° 18' 39.6496" N	1° 57' 24.8484" E	
28	425164.25	5793917.97	52.2905161	1.9027693	52° 17.430969' N	1° 54.166157' E	52° 17' 25.8581" N	1° 54' 9.9694" E	
29	422765.32	5793917.97	52.2901842	1.8676039	52° 17.411050' N	1° 52.056231' E	52° 17' 24.6630" N	1° 52' 3.3739" E	
30	415767.25	5790005.89	52.2539924	1.7660017	52° 15.239546' N	1° 45.960102' E	52° 15' 14.3727" N	1° 45' 57.6061" E	
31	414765.85	5788636.61	52.2415305	1.7516806	52° 14.491832' N	1° 45.100835' E	52° 14' 29.5099" N	1° 45' 6.0501" E	

### 2.3 EA2 - OWF

Table 2.3: East Anglia Two Windfarm Boundary Perimeter Coordinates

Ref ID	WGS 84 / UTM Zone 31N		World Geodetic System (WGS84)							
	(Metres)		(Decimal Degrees)		(Degrees Decimal Minutes)		(Degrees Minutes Seconds)			
	Eastings (m)	Northin gs (m)	Latitude (DD)	Longitu de (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)		
1	454030.05	5766727.44	52.0492447	2.3296379	52° 2.954683' N	2° 19.778273' E	52° 2' 57.2810" N	2° 19' 46.6964" E		
2	441334.83	5766727.52	52.0480470	2.1445284	52° 2.882823' N	2° 8.671702' E	52° 2' 52.9694" N	2° 8' 40.3021" E		
3	439730.16	5768605.66	52.0647590	2.1208002	52° 3.885543' N	2° 7.248012' E	52° 3' 53.1326" N	2° 7' 14.8807" E		
4	441018.57	5787264.71	52.2326372	2.1363533	52° 13.958230' N	2° 8.181200' E	52° 13' 57.4938" N	2° 8' 10.8720" E		
5	446756.00	5789255.34	52.2511172	2.2200421	52° 15.067033' N	2° 13.202528' E	52° 15' 4.0220" N	2° 13' 12.1517" E		



### 2.4 EA2 – ECC

Table 2.4: East Anglia Two Export Cable Corridor Boundary Perimeter Coordinates

		WGS 84 / UTM Zone 31N World Geodetic System (WGS84)							
Ref ID	(Me	tres)	(Decimal	Degrees)	(Degrees Deci	mal Minutes)	(Degrees Minutes Seconds)		
	Eastings (m)	Northings (m)	Latitude (DD)	Longitude (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)	
1	420394.21	5789354.30	52.2488245	1.8339240	52° 14.929469' N	1° 50.035438' E	52° 14' 55.7682" N	1° 50' 2.1263" E	
2	423908.96	5782510.35	52.1878020	1.8869367	52° 11.268117′ N	1° 53.216205' E	52° 11' 16.0870" N	1° 53' 12.9723" E	
3	424294.40	5782200.68	52.1850713	1.8926431	52° 11.104281' N	1° 53.558584' E	52° 11' 6.2569" N	1° 53' 33.5150" E	
4	426385.82	5781653.81	52.1804386	1.9233473	52° 10.826316′ N	1° 55.400836' E	52° 10' 49.5790" N	1° 55' 24.0502" E	
5	428041.20	5781647.12	52.1805969	1.9475552	52° 10.835817' N	1° 56.853315' E	52° 10' 50.1490" N	1° 56' 51.1989" E	
6	430944.19	5781791.14	52.1822626	1.9899767	52° 10.935758' N	1° 59.398602' E	52° 10' 56.1455" N	1° 59' 23.9161" E	
7	433903.98	5783092.61	52.1943246	2.0330066	52° 11.659478' N	2° 1.980395' E	52° 11' 39.5687" N	2° 1' 58.8237" E	
8	435353.47	5783461.69	52.1978143	2.0541393	52° 11.868857' N	2° 3.248355' E	52° 11' 52.1314" N	2° 3' 14.9013" E	
9	440958.95	5786401.22	52.2248684	2.1356312	52° 13.492106' N	2° 8.137870' E	52° 13' 29.5263" N	2° 8' 8.2722" E	
10	440339.46	5777429.65	52.1441505	2.1281417	52° 8.649033' N	2° 7.688504' E	52° 8' 38.9420" N	2° 7' 41.3103" E	
11	438958.55	5779026.93	52.1583586	2.1076771	52° 9.501513' N	2° 6.460628' E	52° 9' 30.0908" N	2° 6' 27.6377" E	
12	438216.66	5779831.07	52.1655050	2.0966870	52° 9.930299' N	2° 5.801222' E	52° 9' 55.8179" N	2° 5' 48.0733" E	
13	435838.87	5782506.08	52.1892806	2.0614212	52° 11.356834' N	2° 3.685270' E	52° 11' 21.4100" N	2° 3' 41.1162" E	
14	434210.67	5782067.50	52.1851462	2.0376917	52° 11.108774' N	2° 2.261504' E	52° 11' 6.5264" N	2° 2' 15.6902" E	
15	428314.11	5779501.50	52.1613451	1.9519993	52° 9.680704' N	1° 57.119959' E	52° 9' 40.8422" N	1° 57' 7.1975" E	
16	426047.67	5779486.66	52.1609127	1.9188750	52° 9.654761' N	1° 55.132500' E	52° 9' 39.2857" N	1° 55' 7.9500" E	
17	425779.26	5779660.81	52.1624421	1.9149138	52° 9.746527' N	1° 54.894826' E	52° 9' 44.7916" N	1° 54' 53.6896" E	
18	423164.19	5781761.81	52.1809701	1.8762141	52° 10.858207' N	1° 52.572848' E	52° 10' 51.4924" N	1° 52' 34.3709" E	
19	423112.83	5781809.02	52.1813873	1.8754524	52° 10.883237' N	1° 52.527146' E	52° 10' 52.9942" N	1° 52' 31.6288" E	
20	423061.1636	5781872.527	52.18195096	1.874682492	52° 10.917058' N	1° 52.480950' E	52° 10' 55.0235" N	1° 52' 28.8570" E	
21	419592.6107	5788616.766	52.24207844	1.822360202	52° 14.524706' N	1° 49.341612' E	52° 14' 31.4824" N	1° 49' 20.4967" E	
22	415546.0962	5788971.239	52.24465861	1.7630213	52° 14.679517' N	1° 45.781278' E	52° 14' 40.7710" N	1° 45' 46.8767" E	
23	415300.4601	5788955.986	52.24448376	1.759428257	52° 14.669026' N	1° 45.565695' E	52° 14' 40.1415" N	1° 45' 33.9417" E	
24	414765.8525	5788636.61	52.24153053	1.751680578	52° 14.491832' N	1° 45.100835' E	52° 14' 29.5099" N	1° 45' 6.0501" E	
25	415767.2546	5790005.887	52.25399243	1.766001706	52° 15.239546' N	1° 45.960102' E	52° 15' 14.3727" N	1° 45' 57.6061" E	
26	419993.6084	5789635.25	52.25129172	1.827990618	52° 15.077503' N	1° 49.679437' E	52° 15' 4.6502" N	1° 49' 40.7662" E	
27	420112.6293	5789605.63	52.25104276	1.829740761	52° 15.062566' N	1° 49.784446' E	52° 15' 3.7539" N	1° 49' 47.0667" E	
28	420221.5295	5789549.202	52.25055135	1.831348995	52° 15.033081' N	1° 49.880940' E	52° 15' 1.9849" N	1° 49' 52.8564" E	
29	420314.3654	5789469.047	52.24984431	1.832727527	52° 14.990659' N	1° 49.963652' E	52° 14' 59.4395" N	1° 49' 57.8191" E	
30	444652.3254	5788525.457	52.2443482	2.18934878	52° 14.660892' N	2° 11.360927' E	52° 14' 39.6535" N	2° 11' 21.6556" E	
31	441018.5745	5787264.706	52.23263716	2.136353339	52° 13.958230' N	2° 8.181200' E	52° 13' 57.4938" N	2° 8' 10.8720" E	
32	441685.6847	5796925.939	52.3195582	2.144449676	52° 19.173492' N	2° 8.666981' E	52° 19' 10.4095" N	2° 8' 40.0188" E	
33	442737.3883	5796914.403	52.31956523	2.159879746	52° 19.173914' N	2° 9.592785' E	52° 19' 10.4348" N	2° 9' 35.5671" E	
34	442376.5675	5791688.918	52.27255283	2.155480643	52° 16.353170' N	2° 9.328839' E	52° 16' 21.1902" N	2° 9' 19.7303" E	



Re ID		WGS 84 / UTM Zone 31N		World Geodetic System (WGS84)					
	-	(Me	tres)	(Decimal Degrees)		(Degrees Decimal Minutes)		(Degrees Minutes Seconds)	
		Eastings (m)	Northings (m)	Latitude (DD)	Longitude (DD)	Latitude (DDM)	Longitude (DDM)	Latitude (DMS)	Longitude (DMS)
3	5	444652.3254	5788525.457	52.2443482	2.18934878	52° 14.660892' N	2° 11.360927' E	52° 14' 39.6535" N	2° 11' 21.6556" E



## 3. Offshore Survey Investigations

### 3.1 Offshore Geophysical Investigation – EA2 – OWF & ECC

#### 3.1.1 Fugro Frontier

Geophysical operations at the EA2 site are expected to be carried out from the Fugro Frontier from the 11<sup>th</sup> July for approximately three weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Fugro Frontier will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.

Survey operations will be conducted on a 24 hour basis.

#### 3.1.2 Atlantis Dweller

Geophysical operations at the EA2 site are expected to be carried out from the Atlantis Dweller from the 9<sup>th</sup> July for approximately ten weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Atlantis Dweller will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.

Survey operations will be conducted on a 24 hour basis.

#### 3.1.3 Fugro Pioneer

Geophysical operations at the EA2 site are expected to be carried out from the Fugro Pioneer from the 11<sup>th</sup> August for approximately four weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Fugro Pioneer will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.



Survey operations will be conducted on a 24 hour basis.

#### 3.2 Offshore Geophysical Investigation – EA1N – OWF & ECC

#### 3.2.1 Fugro Frontier

Geophysical operations at the EA1N site are expected to be carried out from the Fugro Frontier from the 31<sup>st</sup> July for approximately eight weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Fugro Frontier will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.

Survey operations will be conducted on a 24 hour basis.

#### 3.2.2 Atlantis Dweller

Geophysical operations at the EA1N site are expected to be carried out from the Atlantis Dweller from the 24<sup>th</sup> August for approximately two weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Atlantis Dweller will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.

Survey operations will be conducted on a 24 hour basis.

#### 3.2.3 Fugro Pioneer

Geophysical operations at the EA1N site are expected to be carried out from the Fugro Pioneer from the 9<sup>th</sup> September for approximately four weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

As the Fugro Pioneer will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.



#### 3.3 Offshore Geotechnical Investigation – EA2 – OWF & ECC

#### 3.3.1 Normand Flower

Geotechnical operations at the EA2 site are expected to be carried out from the Normand Flower from the 22<sup>nd</sup> July for approximately four weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

<u>Due to the Normand Flower having limited manoeuvrability whist working in DP</u> mode it is requested that all vessels operating within this area keep their distance. The required exclusion zone is 500 m which is included in the survey area buffer of 2,000 m (coordinates above).

Survey operations will be conducted on a 24 hour basis.

#### 3.3.2 Despina

Geotechnical operations at the EA2 site are expected to be carried out from the Despina from the 30<sup>th</sup> July for approximately two weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

Due to the Despina having limited manoeuvrability whist working in DP mode it is requested that all vessels operating within this area keep their distance. The required exclusion zone is 500 m which is included in the survey area buffer of 2,000 m (coordinates above).

Survey operations will be conducted on a 24 hour basis.

#### 3.4 Offshore Geotechnical Investigation – EA1N – OWF & ECC

#### 3.4.1 Normand Flower

Geotechnical operations at the EA1N site are expected to be carried out from the Normand Flower from the 20<sup>th</sup> August for approximately eight weeks however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

Due to the Normand Flower having limited manoeuvrability whist working in DP mode it is requested that all vessels operating within this area keep their distance. The required exclusion zone is 500 m which is included in the survey area buffer of 2,000 m (coordinates above).



Survey operations will be conducted on a 24 hour basis.

#### 3.4.2 Despina

Geotechnical operations at the EA1N site are expected to be carried out from the Despina from the 14<sup>th</sup> August for approximately one week however this survey may be carried out earlier than the date mentioned above. Please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

Due to the Despina having limited manoeuvrability whist working in DP mode it is requested that all vessels operating within this area keep their distance. The required exclusion zone is 500 m which is included in the survey area buffer of 2,000 m (coordinates above).

Survey operations will be conducted on a 24 hour basis.

Please note that all vessels (Fugro Frontier, Atlantis Dweller, Normand Flower, Despina and Fugro Pioneer) will be operating across both sites (EA1N and EA2) throughout the total estimated period of 9<sup>th</sup> July to 16<sup>th</sup> October. The current estimated split between the vessels is based on initial scheduling however, the vessels may move between sites as required throughout.



### 4. Immediate Contacts

The contents of this notice are based upon our current site investigation programme and upon Fugro's planning at the time of submission. It should be noted that Fugro will endeavour to update this notice as required.

Enquiries regarding the contents of this Notice to Mariners, or any other matters, should be directed to Fugro (survey contractor):

For any fisheries related matters, please contact the projects Fisheries Liaison Officer (Brown and May Marine Ltd), using the contact details provided below.

#### <u> Humphrey Capon – Project Manager</u>

Tel: +44 (0) 7825 879 223 (mob), Email: h.capon@fugro.com

#### <u>Kate Jackson – Vessel Manager (Fugro Frontier)</u>

**Tel:** +31 628 349 097 (mob), **Email:** <u>k.jackson@fugro.com</u>

#### <u>Eisse van den Oever – Vessel Manager (Atlantis Dweller)</u>

Tel: +31 618750865 (mob), Email: e.vandenoever@fugro.com

#### Ross MacNeil - Vessel Manager (Normand Flower)

**Tel:** +44 (0) 7917 552 229 (mob), **Email:** <u>r.macneil@fugro.com</u>

#### **Kurt Kleppe – Vessel Manager (Despina)**

**Tel:** +47 957 21419 (mob), **Email:** <u>k.kleppe@fugro.com</u>

#### Mark Schreiber - Vessel Manager (Fugro Pioneer)

**Tel:** +31 638332210 (mob), **Email:** <u>m.schreiber@fugro.com</u>



For enquiries related to Fishing, please contact the dedicated Fisheries Liaison Officer:

### <u>Jonathan – Fisheries Liaison Officer (FLO) [Primary contact]</u>

Tel: +44 (0) 7850 604851 (mob), Email: jonathan@brownmay.com

#### **Zoe Lawrence – Fisheries Liaison Officer (FLO) [Alternative contact]**

**Tel:** +44 (0) 7923 138175 (mob), **Email:** Zoe@brownmay.com



# 5. Survey Vessels

Export Cable Corridor and Offshore Wind Farm geophysical operations will be conducted by the survey vessels Fugro Frontier and Atlantis Dweller.

Export Cable Corridor and Offshore Wind Farm geotechnical operations will be conducted by the survey vessels Normand Flower and Despina.

Additional Vessels will mobilise to site at a later stage and this notice will be updated accordingly.

Table 5.1: Fugro Frontier



General Information		
Name	Fugro Frontier	
Flag	Bahamas	
Call Sign	C6BH4	
Class	GERMANISCHER LLOYD	
Dimensions		
Length	53 m	
Beam	13 m	
Draught (loaded)	3.3 m	
Gross Tonnage	1308	
Communication		
Master	+31 10 7130 936	
Vessel Sat Phone	+881 63 1419 009	
Email:	master@frontier.fugro.com	

Table 5.2: Atlantis Dweller



General Information			
Name	Atlantis Dweller		
Flag	Bahamas		
Call Sign	C6DX8		
Class	Bureau Veritas + AUtUMS, HEL, DYNAPOS AM/AT R Multi Purpose Offshore Vessel		
Dimensions			
Length	69.2 m		
Beam	16.2 m		
Draught (loaded)	4.75m		



Gross Tonnage	3346
Communication	
Master	+31 6 18 94 06 68 41
Vessel Sat Phone	+870 765 076 974
Email:	captain@atlantisdweller.fugr o.com

Table 5.3: Normand Flower



General Information		
Name	Normand Flower	
Flag	Norway	
Call Sign	LAXN7	
Class	DnV+A1 0 1, EO, DK+, HL, (2,5) OILREC;	
Class	HELIDEK-SH, DYNPOS AUTRO	
Dimensions		
Length	93.10 m	
Beam	21.00 m	
Draught (loaded)	6.30 m	
Gross Tonnage	5402	
Communication		
Master	+47 9795 2450	
Vessel Sat Phone	+47 2367 5601	
Email:	master@flower.solstad.com	

Table 5.4: Despina



General Information	eneral Information			
Name	Despina			
Flag	Norway			
Call Sign	LAKW7			
Class	DnV GL 1A1 BWM-(T) CLEAN (DESIGN) COMF-V(3) DK(+) DYNPOS			
	(AUTR) E0 HELDK-SH HL(2.8) ICE-C NAUT (OSV(A)) SF			
Dimensions				
Length	98.60m			
Beam	19.00m			



Draught (loaded)	6.60m
Gross Tonnage	6,072
Communication	
Master	+47 23 67 72 01
Master	+47 95 30 43 36
Inmarsat	+87 06 01 01 69 91
Bridge	+47 23 67 72 00
Email:	captain.despina@geoff.no

Table 5.5: Fugro Pioneer



_	
General Information	
Name	Fugro Pioneer
Flag	Bahamas
Call Sign	C6BH3
Class	DNVGL
Dimensions	
Length	53.7 m
Beam	12.5 m
Draught (loaded)	3.3 m
Gross Tonnage	1322
Communication	
Master	+31 10 7130 945
Mobile:	+31 650 455 597
Vessel Sat Phone	+88 16 37773 4117
Email:	captain@pio.fugro.com



# 6. Distribution List

This Notice to Mariners has been distributed to the following authorities, companies, and individuals:

Table 6.1: Distribution List

E-mail
wm.humber@mcga.gov.uk
sdr@ukho.gov.uk
offshore.energy@ukho.gov.uk
noticestomariners@ukho.gov.uk
navigations a fety@mcga.gov.uk
navigation.directorate@thls.org
lowestoft@marinemanagement.org.uk
kingfisher@seafish.co.uk
zone10@hmcg.gov.uk
NavWarnings@UKHO.gov.uk
nmoccontroller@hmcg.gov.uk
marine@scottishpower.com
jonathan@brownmay.com
sarah@gobeconsultants.com
jyoung@ScottishPower.com
nberry@scottishpower.com
nabad@scottishpower.com
<u>c.paterson@scottishpower.com</u>
alowther@scottishpower.com
lcosta@scottishpower.com
akirkland@scottishpower.com
amilligan@scottishpower.com
gmuir@scottishpower.com



# **Appendix A**

**Buffer Zone Drawings** 

