

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: November 2021

Version: Issue 2

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1 Introduction

Ørsted is an offshore wind farm owner and operator with ten operational wind farms in UK waters. Of these ten, the following offshore wind farms are located off the East Coast of England:

- Gunfleet Sands
- Westermost Rough
- Race Bank
- Lincs
- Hornsea One

The purpose of this monthly Notice to Mariners (NtM) is to ensure that mariners are aware of any non-routine operations across the East Coast assets that could pose a risk to other sea users. Safety is paramount to Ørsted and this notice should assist in ensuring that both mariners and the Ørsted operational team can operate safely offshore. This NtM will provide:

- A regular, clear and consistent overview of non-routine operations
- Updates relating to lighting and marking
- Key contact details
- Access to detailed site information and figures
- Clarity on when Safety Zones and recommended safe separation distances are in force or requested



This Notice to Mariners will not provide:

- Information relating to routine maintenance carried out by Crew Transfer Vessels (CTV) or Service Operation Vessels (SOV).
- Any information relating to export cables
- Any information relating to offshore wind farms currently in development, construction or not operated by Ørsted

Subsea Cables

Subsea cables are installed across each offshore wind farm and are marked on the KIS ORCA charts referenced in Section 1.2. Please note the following advice from NP 100 The Mariners Handbook "Every care should be taken to avoid anchoring, trawling, fishing, dredging, drilling, or carrying out any other activity in the vicinity of cables which might damage them." This warning is repeated on all admiralty charts.

Wind Farm Positional Data

KIS ORCA Awareness Charts (including the layout and coordinates) and Fishing Plotter Files of the offshore assets referenced in this NtM can be found via the KIS ORCA website: <https://kis->

orca.org/downloads/ Should mariners require further information or any data in a format that can be used in a plotter or other device, please contact the Company Fisheries Liaison Officer, listed in Section 2 below.

2 Key Contacts

For further information on any of the activities listed within this notice, please use the contact details listed below.

Site	Ørsted Mailbox/ Offshore Coordination	Fisheries Industry Representative
Race Bank	Phone: 07826 943808 Email: rowoffshorec@orsted.co.uk	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Westermost Rough	Phone: 07867 674941 Email: wmroffshorec@orsted.co.uk	Guy Pasco Phone: 07880 362082 Email: guy@seascopefisheries.co.uk
Lincs	Phone: 07766443319 Email: lincsoffshorec@orsted.co.uk	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Gunfleet Sands		Merlin Jackson Phone: 07989 520484 Email: merlinjackson@btinternet.com
Hornsea One	Phone: 07775005465 Email: HOWoffshoreC@orsted.co.uk	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk

Company Fisheries Liaison Officer

The Ørsted Company Fisheries Liaison Officer can be contacted using the details below:

Courtney French
Email: CONFR@Orsted.co.uk

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	E09, S01, A06 & D01 Fog signal	None	None	Rock Placement**.
Westermost Rough	OK	None	Wind Pioneer °*	Main Gearbox Replacement, Rock placement**
Lincs	OK	None	None	corrosion monitoring system.
Gunfleet Sands	OK	None	Wind Pioneer °*	Corrosion campaign
Hornsea One	H27 Fog Signal	None	None	ROV Operations °*.

* Formal 500m safety zone in place

° Licensable activity

** 500m safety distance requested

*** 200m safety distance requested

Status of lighting & marking is correct at time of issue; any changes will be communicated through an updated version being issued.

4 Race Bank – Notice to Mariners

4.1 Lighting and Marking Status


The Fog Horns are currently inoperative at locations E09, S01, A06 & D01. No planned outages.

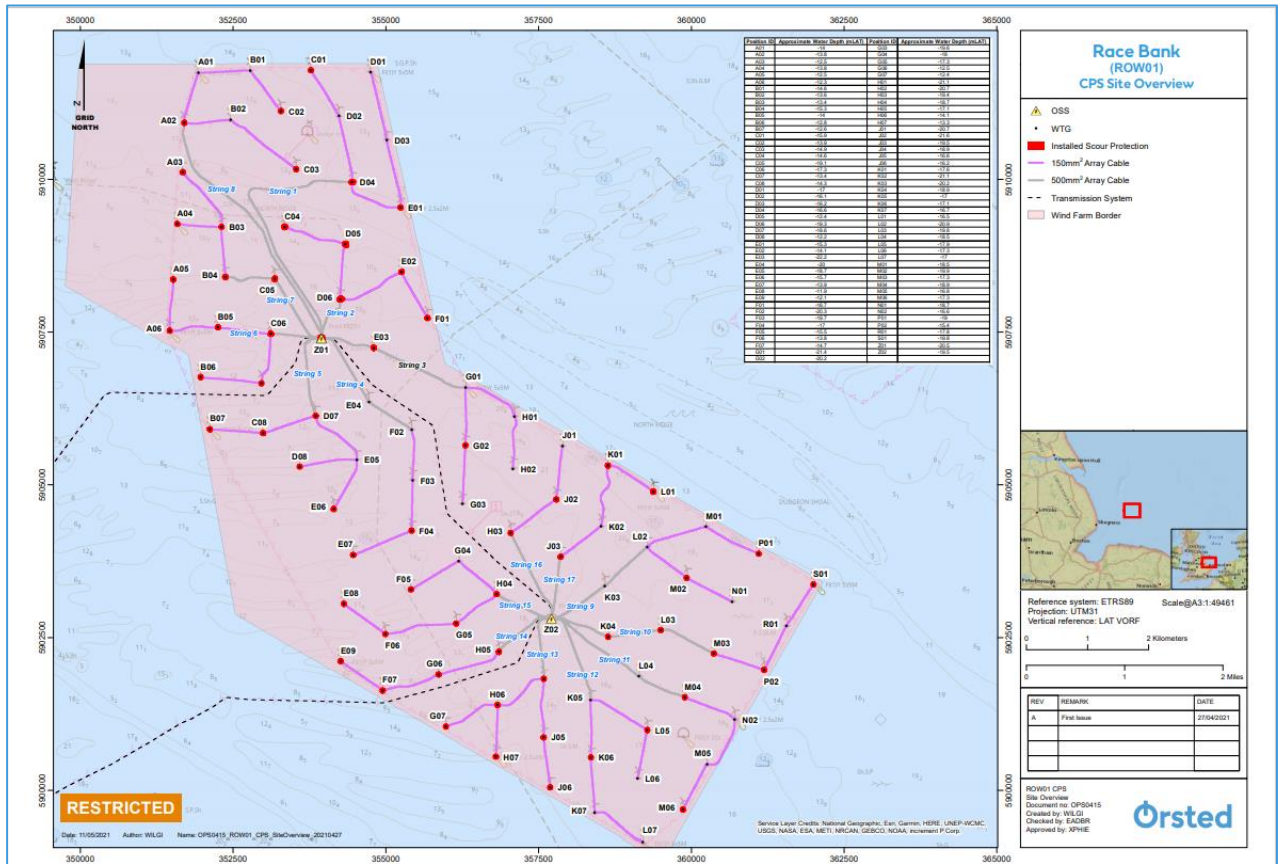
4.2 Other Operations

4.2.1 Rock Placement

The vessel Bravenes will be returning to ROW after works on WMR, expected the beginning of December, placing rocks by use of a fall pipe close to the WTG locations. The scope is anticipated to last around 14 days. A 500m safety zone will be required around the vessel at all times.

Vessel information

General Information		Vessel Picture
Name	Bravenes	
Flag	NL	
Year Built	2017	
MMSI Number	244860916	
Call Sign	PDCF	
Vessel Contact Details		
Bridge	+ 4723398649	
Party Chief		
Email	0620.cpt@vanoord.com	



Position ID	Approximate Water Depth (mLAT)	Easting (ETRS89 UTM31N)	Northing (ETRS89 UTM31N)
A01	-14	351929,00	5911744,00
A02	-13,8	351700,00	5910926,00
A03	-12,5	351675,00	5910116,00
A04	-13,8	351586,00	5909271,00
A05	-12,5	351521,00	5908361,00
A06	-12,3	351462,00	5907522,00
B01	-14,6	352779,00	5911780,00
B02	-13,6	352458,00	5910975,00
B03	-13,4	352310,00	5909221,00
B04	-15,3	352372,00	5908403,00
B05	-14	352252,00	5907578,00
B06	-12,8	351967,00	5906765,00
B07	-12,6	352122,00	5905912,00
C01	-15,9	353773,00	5911786,00
C02	-13,9	353285,00	5911117,00
C03	-14,9	353532,00	5910167,00
C04	-14,6	353341,00	5909222,00
C05	-19,1	353183,00	5908375,00
C06	-17,3	353117,00	5907474,00
C07	-13,4	352963,00	5906661,00
C08	-14,3	352989,00	5905847,00
D01	-17	354749,00	5911757,00
D02	-16,1	354231,00	5911043,00
D03	-16,2	355015,00	5910642,00
D04	-16,6	354446,00	5909957,00
D05	-12,4	354336,00	5908940,00
D06	-19,3	354253,00	5908036,00
D07	-18,6	353850,00	5906131,00
D08	-12,2	353590,00	5905297,00
E01	-15,3	355238,00	5909541,00
E02	-14,1	355255,00	5908482,00
E03	-22,2	354803,00	5907244,00
E04	-20	354724,00	5906355,00
E05	-18,7	354522,00	5905410,00
E06	-15,7	354148,00	5904603,00
E07	-13,9	354466,00	5903852,00
E08	-11,9	354312,00	5903055,00
E09	-12,1	354259,00	5902115,00
F01	-16,7	355680,00	5907728,00
F02	-20,3	355421,00	5905905,00
F03	-19,7	355439,00	5905074,00
F04	-17	355420,00	5904249,00
F05	-15,5	355410,00	5903289,00
F06	-13,8	354992,00	5902557,00
F07	-14,7	354946,00	5901636,00
G01	-21,4	356305,00	5906592,00
G02	-20,2	356302,00	5905644,00
G03	-19,6	356253,00	5904688,00
G04	-18	356194,00	5903754,00
G05	-17,3	356151,00	5902731,00
G06	-12,5	355863,00	5901896,00
G07	-12,4	355982,00	5901044,00
H01	-21,1	357106,00	5906118,00
H02	-20,7	357079,00	5905262,00
H03	-19,4	357042,00	5904213,00
H04	-18,7	356812,00	5903211,00
H05	-17,1	356849,00	5902269,00
H06	-14,1	356829,00	5901396,00
H07	-13,3	356798,00	5900550,00
J01	-20,7	357890,00	5905634,00
J02	-21,6	357788,00	5904765,00
J03	-19,5	357862,00	5903824,00
J04	-18,9	357584,00	5901825,00
J05	-16,6	357582,00	5900869,00
J06	-16,2	357688,00	5900048,00
K01	-17,6	358635,00	5905317,00
K02	-21,1	358524,00	5904324,00
K03	-20,2	358585,00	5903344,00
K04	-18,9	358636,00	5902512,00
K05	-17	358352,00	5901478,00
K06	-17,1	358355,00	5900541,00
K07	-16,7	358418,00	5899638,00
L01	-16,5	359378,00	5904888,00
L02	-20,9	359275,00	5903983,00
L03	-19,8	359497,00	5902622,00
L04	-18,5	359139,00	5901867,00
L05	-17,9	359278,00	5900989,00
L06	-17,3	359117,00	5900196,00
L07	-17	359203,00	5899171,00
M01	-18,5	360238,00	5904315,00
M02	-19,9	359922,00	5903477,00
M03	-17,3	360368,00	5902240,00
M04	-18,9	359891,00	5901523,00
M05	-16,8	360255,00	5900428,00
M06	-17,3	359863,00	5899687,00
N01	-18,7	360665,00	5903085,00
N02	-16,6	360708,00	5901162,00
P01	-19	361101,00	5903873,00
P02	-15,4	361191,00	5901971,00
R01	-17,8	361558,00	5902694,00
S01	-19,8	361998,00	5903370,00
Z01	-20,5	353944,00	5907400,00
Z02	-19,5	357709,00	5902812,00

5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.

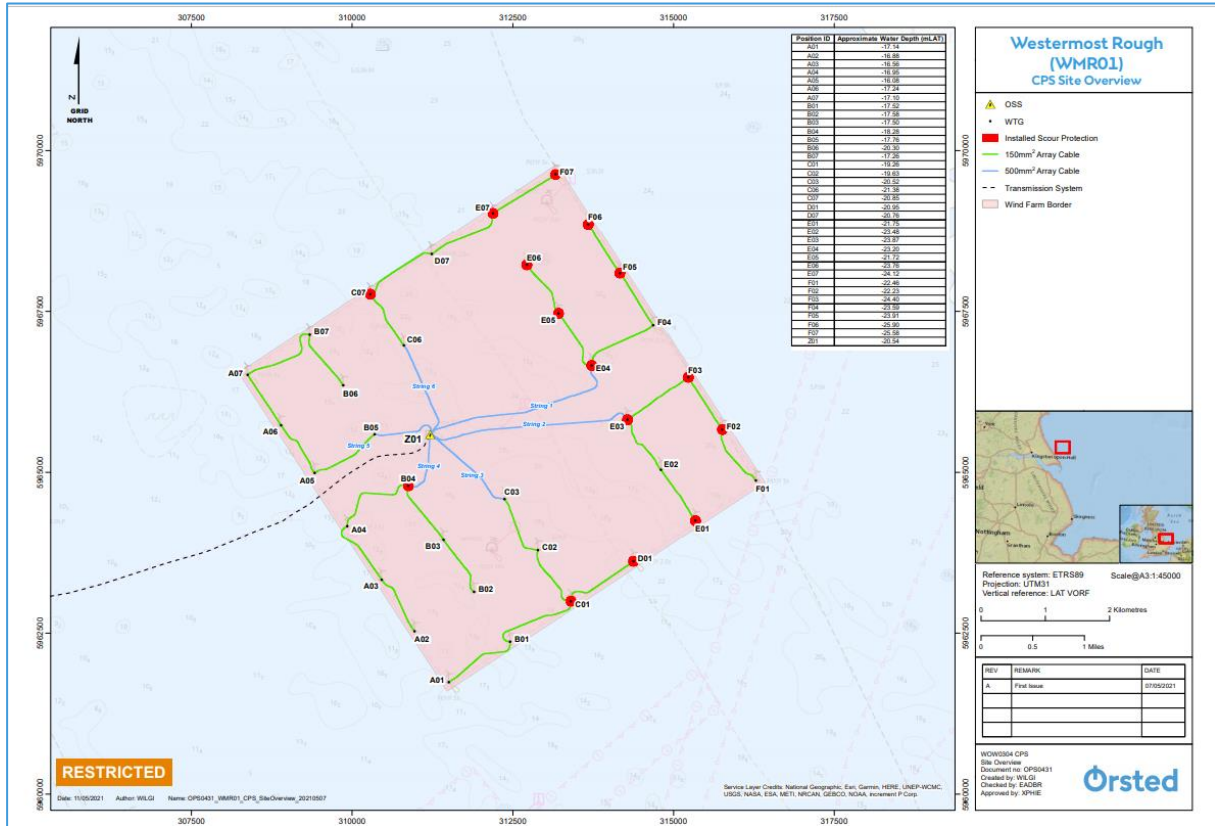
5.2 Other Operations

5.1.1 Rock Placement

From the 16th November, the vessel Bravenes will be placing rocks by use of a fall pipe close to the WTG locations. The scope is anticipated to last around 14 days. A 500m safety zone will be required around the vessel at all times.

Vessel information

General Information		Vessel Picture
Name	Bravenes	
Flag	NL	
Year Built	2017	
MMSI Number	244860916	
Call Sign	PDCF	
Vessel Contact Details		
Bridge	+ 4723398649	
Party Chief		
Email	0620.cpt@vanoord.com	



Position ID	Approximate Water Depth (mLAT)	Easting (ETRS89 UTM31N)	Northing (ETRS89 UTM31N)
A01	-17,14	311505,64	5961740,98
A02	-16,88	310972,58	5962530,74
A03	-16,56	310461,58	5963332,32
A04	-16,95	309922,89	5964163,25
A05	-16,08	309418,56	5964989,14
A06	-17,24	308894,14	5965733,19
A07	-17,10	308374,70	5966515,52
B01	-17,52	312460,17	5962366,29
B02	-17,58	311897,21	5963141,10
B03	-17,50	311423,32	5963950,54
B04	-18,28	310874,94	5964789,35
B05	-17,76	310353,53	5965589,78
B06	-20,30	309862,45	5966351,73
B07	-17,26	309343,91	5967138,07
C01	-19,26	313403,20	5962997,55
C02	-19,63	312889,73	5963793,06
C03	-20,52	312371,49	5964585,30
C06	-21,38	310806,79	5966972,28
C07	-20,85	310285,04	5967767,73
D01	-20,95	314374,33	5963617,79
D07	-20,76	311239,64	5968394,31
E01	-21,75	315339,77	5964248,36
E02	-23,48	314803,79	5965039,98
E03	-23,87	314281,96	5965819,88
E04	-23,20	313727,29	5966659,30
E05	-21,72	313210,82	5967470,15
E06	-23,76	312716,87	5968223,95
E07	-24,12	312192,23	5969023,34
F01	-22,46	316280,10	5964871,04
F02	-22,23	315758,62	5965667,28
F03	-24,40	315227,98	5966475,89
F04	-23,59	314681,81	5967285,33
F05	-23,91	314166,28	5968096,18
F06	-25,90	313671,74	5968850,43
F07	-25,58	313165,30	5969629,82
Z01	-20,54	311213,09	5965588,52

6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

6.2 Other Operations

6.2.1 Lincs Anode

Revisit of LIC LS39 internal Anode (Basement Activity) for 1 day, starting 9th Nov.

General Information		Vessel Picture
Name	Cwind Alliance	
Flag	UK	
Year Built	2013	
MMSI Number	235088195	
Call Sign	2EUE3	
Vessel Contact Details		
Bridge	07967768758	
Party Chief		
Email	Adventure@cwind.global	



7 Gunfleet Sands – Notice to Mariners

7.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.


7.2 Other Operations

7.2.1 Internal corrosion protection

There is an ongoing corrosion protection campaign and is expected to be complete early Decemeber. All locations will be visited.

Vessel Information

General Information		Vessel Picture
Name	CWind Adventure	
Flag	UK	
Year Built	2013	
MMSI Number	235097139	
Call Sign	2GGG9	
Vessel Contact Details		
Bridge	07508452177	
Party Chief		
Email	Adventure@cwind.global	

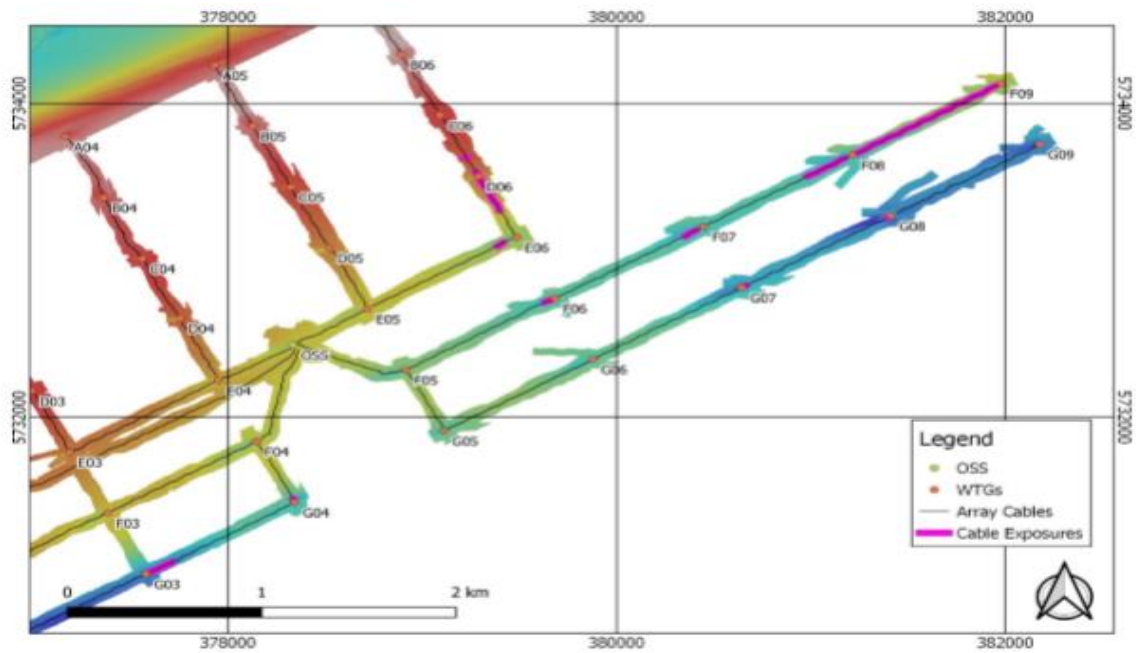
General Information		Vessel Picture
Name	CWind Challenger	
Flag	UK	
Year Built	2013	
MMSI Number	235099967	
Call Sign	2GRU4	
Vessel Contact Details		
Bridge	07944639671	
Party Chief		
Email	challenger@cwind.global	

7.2.2 Cable exposure

There are subsea cables currently exposed as shown on the below chart and coordinates.

Array cable	Nearest WTG	Distance from WTG to start exposure [m]	Exposure length [m]	Coordinates start exposure		Coordinates end exposure	
				X	Y	X	Y
F06-F07	F07	53.9	73.9	380400.9	5733188.0	380341.2	5733147.0
F07-F08	F08	52.4	216.1	381166.3	5733649.0	380982.7	5733538.0
F08-F09	F08	28.1	827.9	381238.4	5733685.0	381942.3	5734108.0
G03-G04	G03	19.9	129.8	377595.9	5731011.0	377708.3	5731074.0
G07-G08	G07	15.4	5.8	380657.0	5732835.0	380662.0	5732838.0
G07-G08	G08	6.5	11.0	381404.9	5733280.0	381395.3	5733275.0

Table 5-1; Array cable exposures detected in GFS0102



8 Hornsea One – Notice to Mariners

8.1 Lighting and Marking Status

H27 Foghorns are currently inoperative.


8.2 Other Operations

8.2.1 ROV Inspections

ROV based general visual inspections on listed locations below, the vessel will require a 500m safety zone during all operations.

Work scope is expected to last up to 31 days.

Vessel Information

General Information		Vessel Picture
Name	HBC Achiever	
Flag	DK	
Year Built	2014	
MMSI Number	219305000	
Call Sign	OWMH2	
Vessel Contact Details		
Bridge	+4528564799	
Party Chief		
Email	achieverbridge@hbc-tec.dk	

Input TurbineID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A23	001° 49.70898464' E	53° 50.19143262' N
B22	001° 50.12039074' E	53° 50.84600556' N
D01	002° 12.52946057' E	53° 51.31752065' N
E02	002° 10.47276740' E	53° 51.89697835' N
E05	002° 06.70261475' E	53° 52.15447479' N
E07	002° 04.32577949' E	53° 52.05491571' N
E10	002° 02.05619869' E	53° 51.85701010' N

F01	002° 10.91085814' E	53° 52.80141986' N
F03	002° 08.55558697' E	53° 52.73282496' N
F07	002° 03.60882400' E	53° 52.71031037' N
F10	002° 01.28364881' E	53° 52.56126903' N
F13	001° 58.82576654' E	53° 52.53357759' N
F16	001° 56.08354437' E	53° 52.76372653' N
G02	002° 08.74846221' E	53° 53.48472737' N
H03	002° 07.13575281' E	53° 54.03171165' N
H07	002° 02.22640902' E	53° 53.97103510' N
H10	001° 59.73802721' E	53° 53.97024934' N
H13	001° 57.38511467' E	53° 53.84550259' N
H16	001° 54.57828973' E	53° 54.13197937' N
H18	001° 52.30631728' E	53° 53.90540938' N
H20	001° 49.13711817' E	53° 54.53728429' N
H21	001° 47.39869037' E	53° 54.26223484' N
H23	001° 44.70293330' E	53° 54.22710275' N
H25	001° 41.76203959' E	53° 54.45375271' N
K05	002° 03.44875603' E	53° 55.12640226' N
L24	001° 41.33575584' E	53° 56.05110807' N
M02	002° 05.46844391' E	53° 56.47367109' N
M03	002° 04.30032375' E	53° 56.61989405' N
M05	002° 02.12571897' E	53° 56.33186782' N
M20	001° 46.26551672' E	53° 57.04926498' N
M22	001° 43.10849089' E	53° 57.18755800' N
N01	002° 06.53632842' E	53° 56.80202866' N
N02	002° 04.75412393' E	53° 57.12515104' N
N20	001° 45.62614203' E	53° 57.62248089' N
N21	001° 43.57828055' E	53° 57.71571308' N
P20	001° 45.02725412' E	53° 58.15912816' N
P21	001° 42.92119217' E	53° 58.41017122' N
P22	001° 41.92618763' E	53° 58.26319487' N