

# Marine Scotland Science NOTICE TO MARINERS PrePARED Fish Tracking Array

Marine Scotland Science (MSS) intend to continue servicing 87 acoustic fish tracking moorings in the Beatrice and Moray East Offshore Windfarms (BOWL (38 moorings) and MEOW (49 moorings)) as part of the PrePARED programme of works. PrePARED is a collaborative research project which aims to concurrently study predator (seabird and marine mammal) and prey (fish) distribution and behaviour in and around offshore wind farms. The moorings hold research equipment that support hydrophone receivers. These receivers log the presence of fish, such as Cod, Haddock and whiting which will be tagged with acoustic ID tag transmitters. Below is a map and a table with the proposed locations of these moorings. Positions are given in WGS84 in degrees and decimal minutes. The moorings will be deployed from the 15<sup>th</sup> of April 2024 by the Waterfall a small work catamaran. The moorings will be removed by the 30<sup>th</sup> of August 2026.

Fish will be caught using fishing rods and released in timed release cages. The Fish capture and timed release cages will be deployed overnight max (48h). They will be marked with small creel style floats with "Marine Scotland Science" written on them. They will be at least 100m from turbine locations. Up to 5 cages will be deployed in MEOW and BOWL sites and the locations notified to the MCC they will be in proximity to the positions below.

For clarity the acoustic fish tracking moorings are shown in Figure 2 below, the fish traps are shown in figure 3 and a schematic of the mooring used for both the fish traps and timed release cages is shown in figure 4. Table 1 shows the locations of the acoustic fish tracking moorings these are not the locations of the fish traps or timed release caged which will be notified on a daily basis. They will however be within 100m of these locations.

All enquiries should be made to the Marine Scotland acoustics mailbox ([acoustics@scotland.gsi.gov.uk](mailto:acoustics@scotland.gsi.gov.uk))

Figure 1: PrePARED fish tracking acoustic receiver array

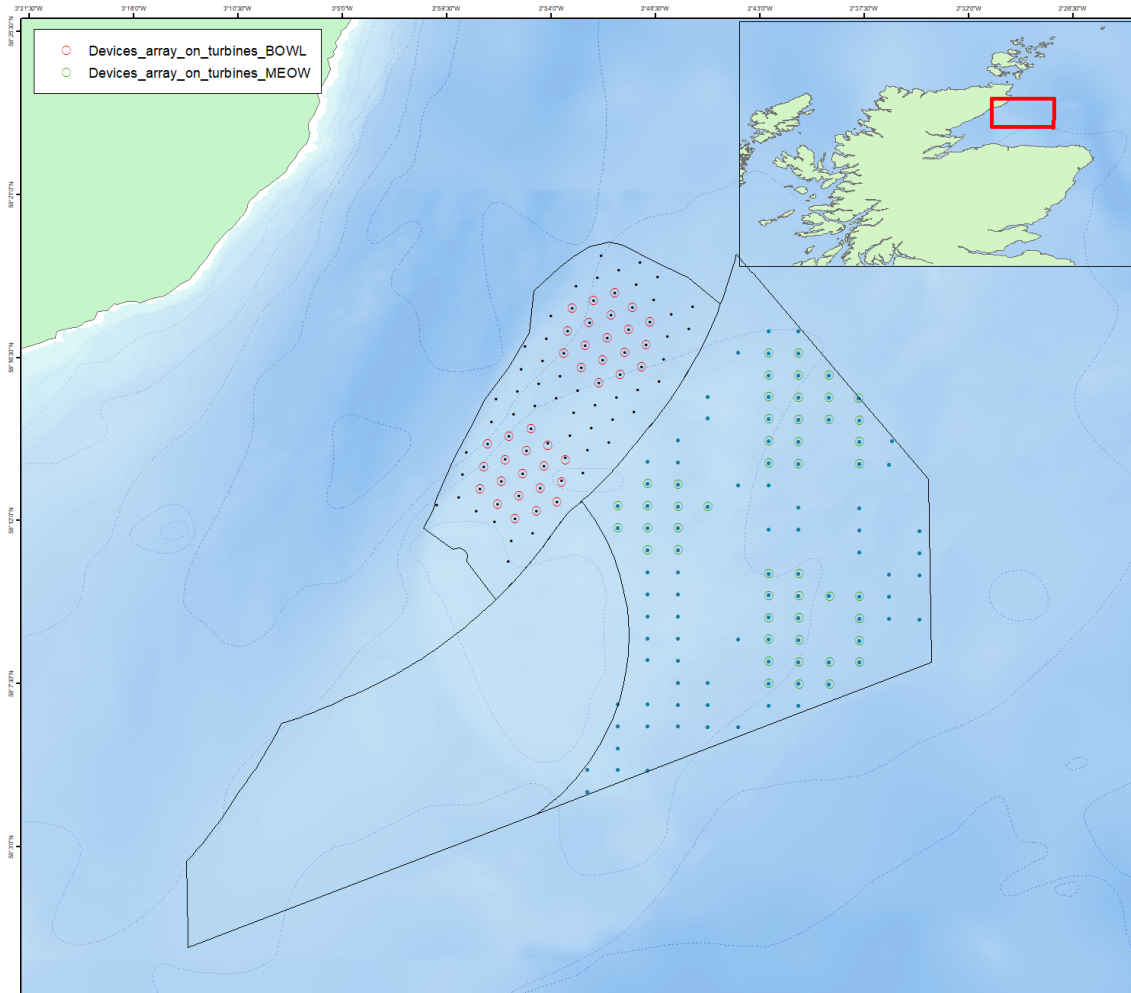


Table 1: Mooring number and position

Mooring ID	Latitude (Decimal degrees)	Longitude (Decimal degrees)	Latitude (degrees decimal minute)	Longitude (degrees decimal minute)
MEOW1	58.15546	-2.68437	58° 09.3270' N	002° 41.011' W
MEOW2	58.16559	-2.68428	58° 09.9348' N	002° 41.006' W
MEOW3	58.17573	-2.68419	58° 10.5432' N	002° 41.000' W
MEOW4	58.17594	-2.7105	58° 10.5558' N	002° 42.579' W
MEOW5	58.16581	-2.71058	58° 09.9480' N	002° 42.584' W
MEOW6	58.15567	-2.71066	58° 09.3396' N	002° 42.588' W
MEOW7	58.14553	-2.71074	58° 08.7312' N	002° 42.593' W
MEOW8	58.14532	-2.68446	58° 08.7186' N	002° 41.016' W

MEOU9	58.13483	-2.63238	58° 08.0892' N	002° 37.892' W
MEOU10	58.1354	-2.71083	58° 08.1234' N	002° 42.599' W
MEOU11	58.13518	-2.68455	58° 08.1102' N	002° 41.022' W
MEOU12	58.13496	-2.65827	58° 08.0970' N	002° 39.445' W
MEOU13	58.14488	-2.63189	58° 08.6922' N	002° 37.862' W
MEOU14	58.15501	-2.63178	58° 09.3000' N	002° 37.856' W
MEOU15	58.16515	-2.63168	58° 09.9084' N	002° 37.850' W
MEOU16	58.16537	-2.65798	58° 09.9216' N	002° 39.428' W
MEOU17	58.12526	-2.71091	58° 07.5150' N	002° 42.603' W
MEOU18	58.12505	-2.68464	58° 07.5024' N	002° 41.027' W
MEOU19	58.12483	-2.65837	58° 07.4892' N	002° 39.451' W
MEOU20	58.27718	-2.68368	58° 16.6302' N	002° 40.969' W
MEOU21	58.2774	-2.71007	58° 16.6434' N	002° 42.553' W
MEOU22	58.26727	-2.71015	58° 16.0356' N	002° 42.558' W
MEOU23	58.26705	-2.68377	58° 16.0224' N	002° 40.975' W
MEOU24	58.26683	-2.6574	58° 16.0092' N	002° 39.393' W
MEOU25	58.25713	-2.71023	58° 15.4272' N	002° 42.562' W
MEOU26	58.25692	-2.68387	58° 15.4146' N	002° 40.981' W
MEOU27	58.25668	-2.6575	58° 15.4002' N	002° 39.399' W
MEOU28	58.25638	-2.63145	58° 15.3822' N	002° 37.836' W
MEOU29	58.24698	-2.71032	58° 14.8182' N	002° 42.568' W
MEOU30	58.24677	-2.68395	58° 14.8056' N	002° 40.986' W
MEOU31	58.24655	-2.65758	58° 14.7924' N	002° 39.403' W
MEOU32	58.24633	-2.63123	58° 14.7792' N	002° 37.822' W
MEOU33	58.23685	-2.7104	58° 14.2104' N	002° 42.573' W
MEOU34	58.23663	-2.68403	58° 14.1972' N	002° 40.990' W
MEOU35	58.22672	-2.71048	58° 13.6026' N	002° 42.578' W
MEOU36	58.2265	-2.68413	58° 13.5894' N	002° 40.997' W
MEOU37	58.2362	-2.63133	58° 14.1714' N	002° 37.828' W
MEOU38	58.22605	-2.63143	58° 13.5624' N	002° 37.835' W
MEOU39	58.20743	-2.84229	58° 12.4453' N	002° 50.486' W
MEOU40	58.19729	-2.84234	58° 11.8369' N	002° 50.489' W
MEOU41	58.19711	-2.81601	58° 11.8261' N	002° 48.909' W
MEOU42	58.18697	-2.81607	58° 11.2177' N	002° 48.913' W
MEOU43	58.18678	-2.78975	58° 11.2063' N	002° 47.334' W
MEOU44	58.19691	-2.78969	58° 11.8141' N	002° 47.330' W
MEOU45	58.20705	-2.78963	58° 12.4225' N	002° 47.327' W
MEOU46	58.20685	-2.7633	58° 12.4105' N	002° 45.747' W
MEOU47	58.20724	-2.81596	58° 12.4339' N	002° 48.906' W
MEOU48	58.21738	-2.81591	58° 13.0423' N	002° 48.903' W

MEOW49	58.21719	-2.78957	58° 13.0309' N	002° 47.323' W
BOWL1	58.2847	-2.85132	58° 17.0815' N	002° 51.028' W
BOWL2	58.28827	-2.83255	58° 17.2957' N	002° 49.902' W
BOWL3	58.29505	-2.84781	58° 17.7025' N	002° 50.817' W
BOWL4	58.2915	-2.86666	58° 17.4895' N	002° 51.948' W
BOWL5	58.28115	-2.8701	58° 16.8685' N	002° 52.155' W
BOWL6	58.2744	-2.85481	58° 16.4635' N	002° 51.237' W
BOWL7	58.27793	-2.83605	58° 16.6753' N	002° 50.112' W
BOWL8	58.28149	-2.81728	58° 16.8889' N	002° 48.985' W
BOWL9	58.29185	-2.81377	58° 17.5105' N	002° 48.775' W
BOWL10	58.29862	-2.82903	58° 17.9167' N	002° 49.690' W
BOWL11	58.30539	-2.84429	58° 18.3229' N	002° 50.606' W
BOWL12	58.30182	-2.86307	58° 18.1087' N	002° 51.733' W
BOWL13	58.29825	-2.88185	58° 17.8945' N	002° 52.860' W
BOWL14	58.2879	-2.88535	58° 17.2735' N	002° 53.070' W
BOWL15	58.27754	-2.88884	58° 16.6519' N	002° 53.279' W
BOWL16	58.27078	-2.87359	58° 16.2463' N	002° 52.364' W
BOWL17	58.26401	-2.85833	58° 15.8401' N	002° 51.448' W
BOWL18	58.26758	-2.83958	58° 16.0543' N	002° 50.323' W
BOWL19	58.27114	-2.82081	58° 16.2679' N	002° 49.197' W
BOWL20	58.22222	-2.92503	58° 13.3327' N	002° 55.451' W
BOWL21	58.21544	-2.90979	58° 12.9259' N	002° 54.536' W
BOWL22	58.2258	-2.90629	58° 13.5475' N	002° 54.326' W
BOWL23	58.23256	-2.92155	58° 13.9531' N	002° 55.242' W
BOWL24	58.22855	-2.94061	58° 13.7125' N	002° 56.385' W
BOWL25	58.22539	-2.95902	58° 13.5229' N	002° 57.490' W
BOWL26	58.21862	-2.94376	58° 13.1167' N	002° 56.574' W
BOWL27	58.21186	-2.92851	58° 12.7111' N	002° 55.659' W
BOWL28	58.2051	-2.91327	58° 12.3055' N	002° 54.745' W
BOWL29	58.20907	-2.89544	58° 12.5437' N	002° 53.675' W
BOWL30	58.21815	-2.89111	58° 13.0885' N	002° 53.415' W
BOWL31	58.22852	-2.88805	58° 13.7107' N	002° 53.232' W
BOWL32	58.23524	-2.90296	58° 14.1139' N	002° 54.126' W
BOWL33	58.21504	-2.96249	58° 12.9019' N	002° 57.698' W
BOWL34	58.20828	-2.94723	58° 12.4963' N	002° 56.783' W
BOWL35	58.20151	-2.932	58° 12.0900' N	002° 55.865' W
BOWL36	58.23574	-2.95554	58° 14.1439' N	002° 57.281' W
BOWL37	58.23932	-2.93681	58° 14.3587' N	002° 56.157' W
BOWL38	58.24291	-2.91807	58° 14.5741' N	002° 55.033' W

Figure 2: Pop-Up array mooring design

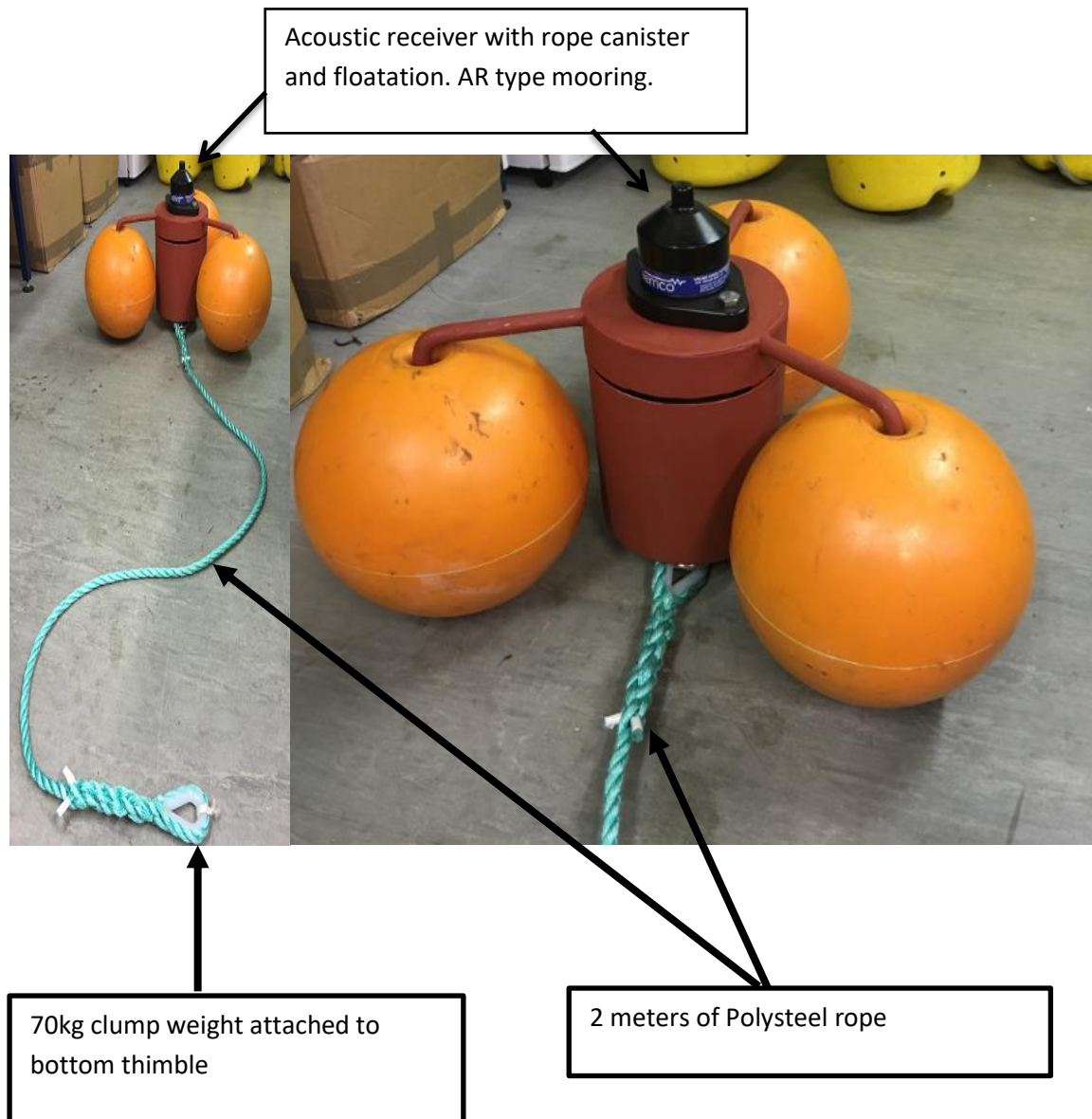


Figure 3: Fish Capture Cage



Figure 4: Fish Trap/ Release cage schematic.

