



Environmental Impact Assessment Report

Volume 4

Appendix 9.3 Noise overlap
with spawning and nursery
ground calculations



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APPENDIX 9.3 NOISE OVERLAP WITH SPAWNING AND NURSERY GROUND CALCULATION

1 Introduction

1. This document contains the summary tables and long list of the calculated overlaps for all species represented within the established nursery and spawning habitat sources. Values are based on the overlap between data source shapefiles and the noise level contours produced by modelling.

2 Turbine Development Site

2. Three different mitigation scenarios are available and have been assigned to specific modelling locations as described below:
 - Scenario 1 (slow soft start and ramp up, single pile in 24 hrs) is the only scenario considered in the SE corner outputs – also referred to as Stage 1 and the most restrictive;
 - Scenario 2 (soft start, single pile in 24 hrs) is the only scenario considered in the NE and SW corner outputs – also referred to as Stage 2 and less restrictive; and
 - Scenario 3 (soft start, two piles in 24 hrs) is the only scenario considered in the NW corner – also referred to as Stage 3 and least restrictive.

3 Methods

3. The methods were as follows:
4. For each piling location, model type, and for each sound level separately:
 - a. Polygonise the contour to allow for area calculations
 - b. Read in habitat polygons for each of the three datasets (Ellis, Coull and Ireland Atlas), and for spawning and nursery stages
 - c. Clip habitat polygons to only be those within the national boundary of the Irish Sea, and excluding any area on land
 - d. For each species, and for each habitat intensity available under the given dataset:
 - i. Combine multiple overlapping polygons if present, to avoid duplication of the same habitat under different resolutions (e.g., coarse data from national level dataset may overlap with fine-scale data from local regional dataset).
 - ii. Intersect area covered by noise contour and the habitat to provide overlap, where important habitat will be affected by noise.
 - iii. Calculate the area of overlap, and total area present (e.g., if one iteration is calculating overlap for Cod spawning areas of high intensity from the Ellis dataset, the area of the total habitat available to high intensity spawning cod within the national boundary (clipped to the sea), is calculated)
 - iv. Calculate the proportion of national habitat within the dataset that will be potentially impacted
 - v. Save the results and repeat for other species/intensity/dataset

5. Once a collated dataset of N combinations of habitat dataset, habitat type, species, habitat intensity use, piling location, noise level contour, and noise model type was amassed that had the proportion of national area, the maximum proportion was taken per species, habitat type, intensity, noise level, and noise model. This presents a worst-case, across all piling locations and habitat datasets.
6. See below plate for an example (**Plate 1**). The black background shows the national area, excluding land. Green shows habitat for the relevant species, here nursery habitat from the Coull dataset. The yellow polygon shows the extent of the pile noise contours (here at the North West location, at 186 dB, using the stationary model where fish do not flee). The red polygon shows where overlap between the habitat for the relevant species, and the noise contours exist. The result is derived from dividing the area of the red polygon by the area of the green polygons, which is the proportion of overlap between habitat and noise, of the overall habitat in the national area. If the polygon is fully yellow, there is zero overlap, and the proportion will be zero. This is repeated for each species across six sound levels for each of eight noise contours (4 locations each under two different models), two different habitat types (nursery and spawning), potentially multiple levels of habitat intensity (high, low, unclassified), across three different habitat datasets (Ellis, Coull, and Ireland Atlas). Where some of the habitat polygons also had multiple resolutions (e.g., high resolution for the Irish Sea, low resolution for outside of this area), there was often an overlap between polygons (e.g., detailed local polygons, overlapped by coarser national polygons). To avoid duplication in the area calculations, polygons were combined.

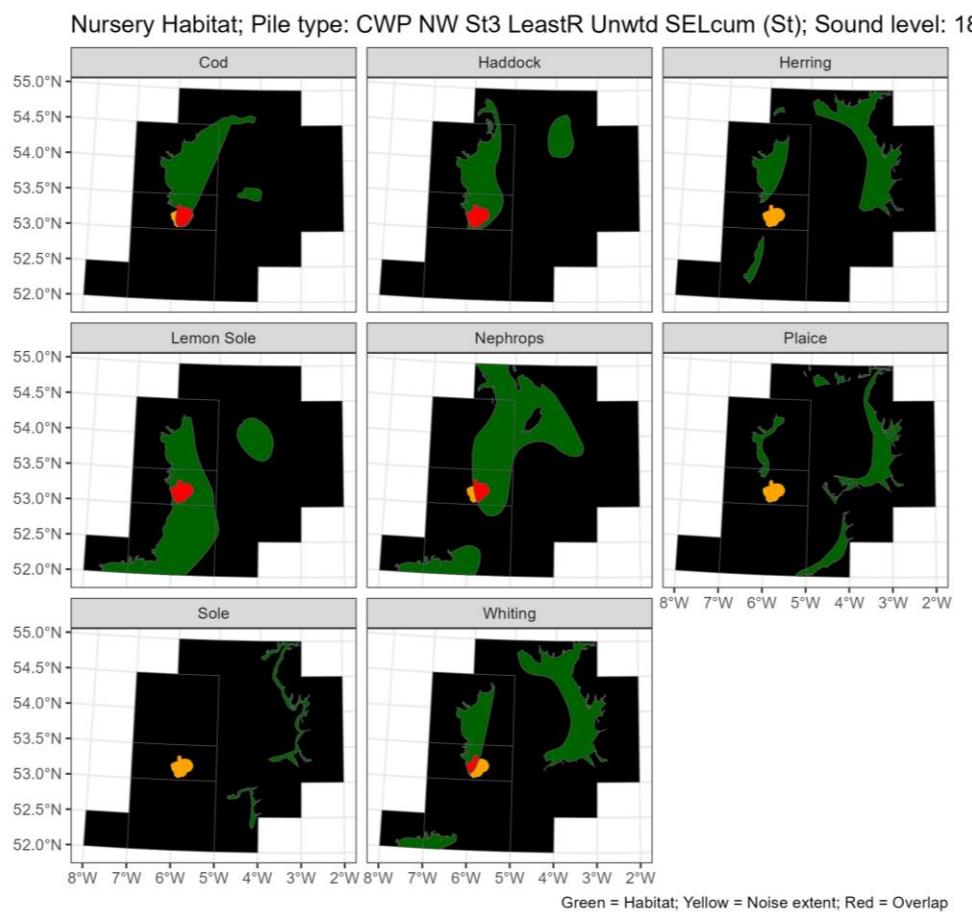


Plate 1 Example image one

7. In some datasets (particularly Coull spawning), there were many levels of habitat intensity. High and Higher were combined, and NULL was reclassified as Undetermined, as per the below plate (**Plate 2**).

Nursery Habitat; Pile type: CWP SW St3 LeastR Unwtd SELcum (St); Sound level: 186

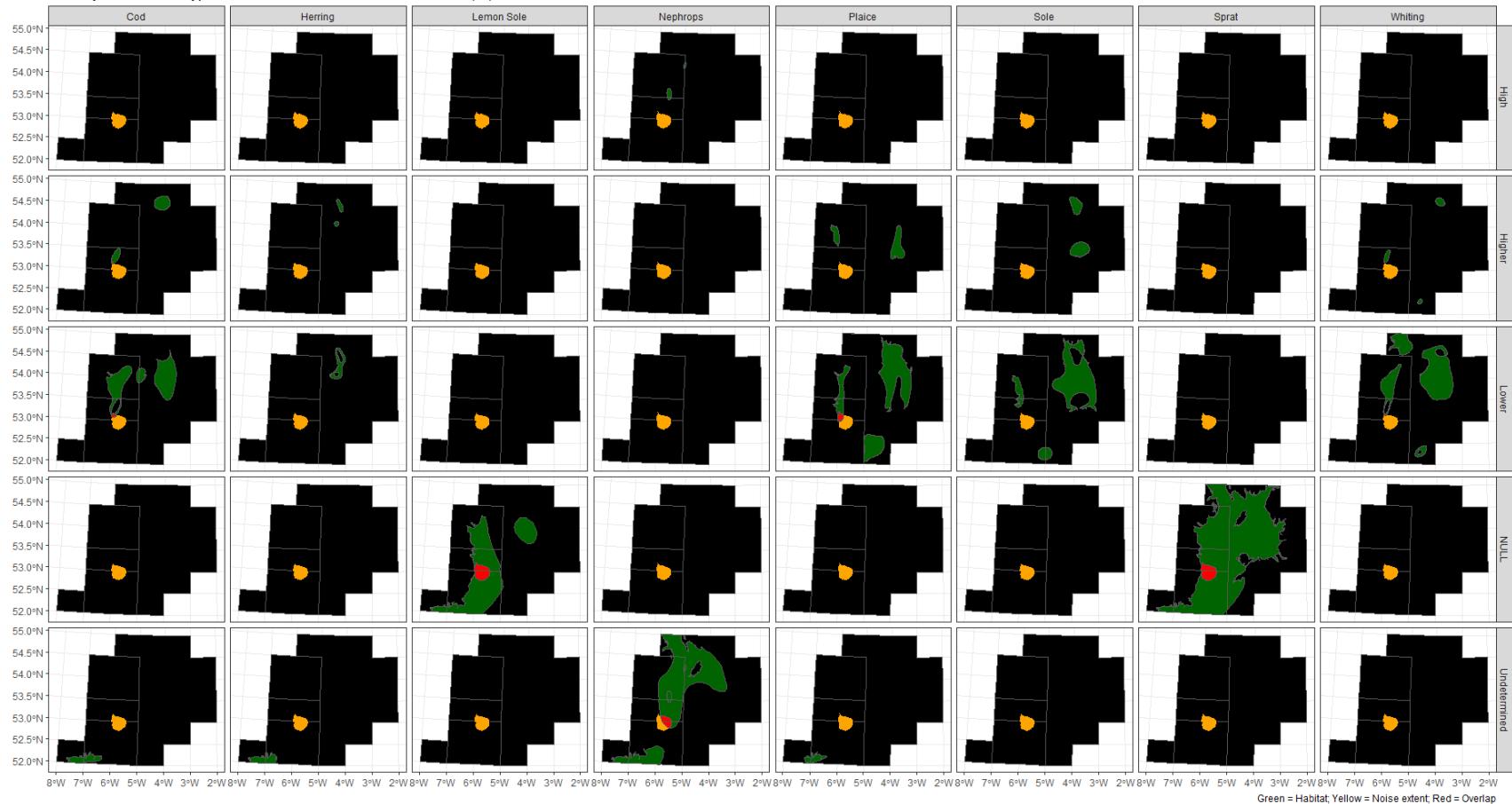


Plate 2 Example image two

8. Where multiple intensities exist, they were treated separately. E.g., below (**Plate 3**), red is high intensity spawning habitat of whiting within the Coull dataset, and green is other intensities including undetermined level and low intensity. Here the red polygons are used separately for overlap assessment, and then the assessment would be repeated for other intensities.

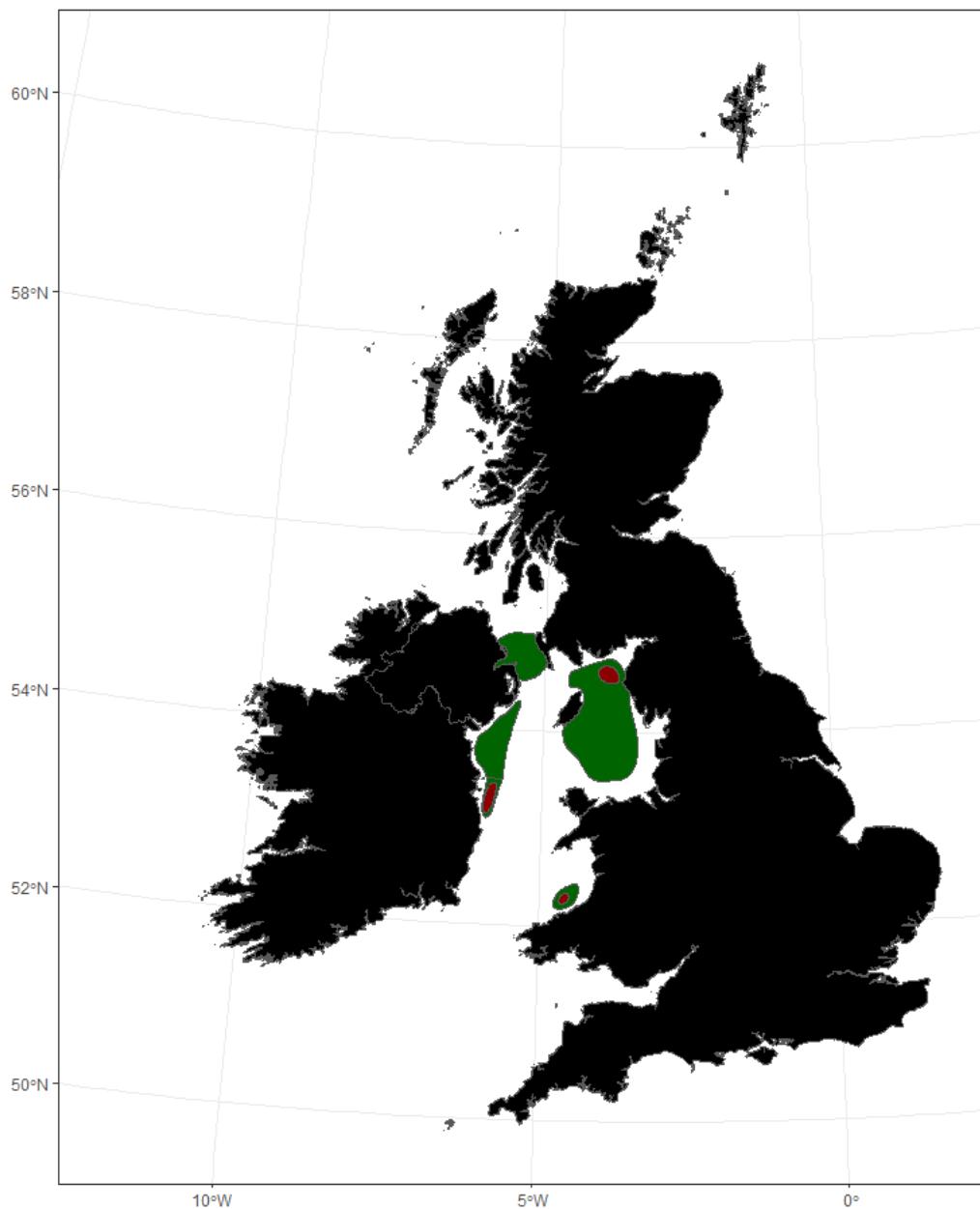


Plate 3 Example image three

4 Results

4.1 Overlap Long List Tables

9. The following two tables represent the long list of calculations completed for all modelling locations across intensity of habitat use.

Table 1 - Noise modelling areas of overlap calculations for the Array/OECC

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
1 Anglerfish	Nursery	High	186	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
2 Anglerfish	Nursery	High	203	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
3 Anglerfish	Nursery	High	207	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
4 Anglerfish	Nursery	High	210	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
5 Anglerfish	Nursery	High	216	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
6 Anglerfish	Nursery	High	219	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
7 Anglerfish	Nursery	High	186	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
8 Anglerfish	Nursery	High	203	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
9 Anglerfish	Nursery	High	207	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
10 Anglerfish	Nursery	High	210	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
11 Anglerfish	Nursery	High	216	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
12 Anglerfish	Nursery	High	219	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
13 Anglerfish	Nursery	Low	186	Flee	-	0.015092 -	-	0.006812 -	-	-	0.00248 -	-	-	-	0.00457 -	
14 Anglerfish	Nursery	Low	203	Flee	-	1.00E-07 -	-	1.00E-07 -	-	-	1.00E-07 -	-	-	-	1.00E-07 -	
15 Anglerfish	Nursery	Low	207	Flee	-	1.00E-07 -	-	1.00E-07 -	-	-	1.00E-07 -	-	-	-	1.00E-07 -	
16 Anglerfish	Nursery	Low	210	Flee	-	1.00E-07 -	-	1.00E-07 -	-	-	1.00E-07 -	-	-	-	1.00E-07 -	
17 Anglerfish	Nursery	Low	216	Flee	-	4.02E-08 -	-	4.02E-08 -	-	-	4.02E-08 -	-	-	-	4.02E-08 -	
18 Anglerfish	Nursery	Low	219	Flee	-	4.02E-08 -	-	4.02E-08 -	-	-	4.02E-08 -	-	-	-	4.02E-08 -	
19 Anglerfish	Nursery	Low	186	St	-	0.038611 -	-	0.020438 -	-	-	0.017858 -	-	-	-	0.016447 -	
20 Anglerfish	Nursery	Low	203	St	-	0.000824 -	-	0.000382 -	-	-	0.000582 -	-	-	-	0.000466 -	
21 Anglerfish	Nursery	Low	207	St	-	0.000279 -	-	0.000135 -	-	-	0.000225 -	-	-	-	0.000165 -	
22 Anglerfish	Nursery	Low	210	St	-	0.000119 -	-	6.10E-05 -	-	-	0.000105 -	-	-	-	7.31E-05 -	
23 Anglerfish	Nursery	Low	216	St	-	2.03E-05 -	-	1.23E-05 -	-	-	2.13E-05 -	-	-	-	1.38E-05 -	
24 Anglerfish	Nursery	Low	219	St	-	8.45E-06 -	-	5.32E-06 -	-	-	9.56E-06 -	-	-	-	6.28E-06 -	
25 Cod	Nursery	High	186	Flee	-	0.015538 -	-	0.020961 -	-	-	0.007874 -	-	-	-	0.005123 -	
26 Cod	Nursery	High	203	Flee	-	3.18E-07 -	-	3.18E-07 -	-	-	3.18E-07 -	-	-	-	3.18E-07 -	
27 Cod	Nursery	High	207	Flee	-	3.18E-07 -	-	3.18E-07 -	-	-	3.18E-07 -	-	-	-	3.18E-07 -	
28 Cod	Nursery	High	210	Flee	-	3.18E-07 -	-	3.18E-07 -	-	-	3.18E-07 -	-	-	-	3.18E-07 -	
29 Cod	Nursery	High	216	Flee	-	1.28E-07 -	-	1.28E-07 -	-	-	1.28E-07 -	-	-	-	1.28E-07 -	
30 Cod	Nursery	High	219	Flee	-	1.28E-07 -	-	1.28E-07 -	-	-	1.28E-07 -	-	-	-	1.28E-07 -	
31 Cod	Nursery	High	186	St	-	0.034497 -	-	0.048707 -	-	-	0.056696 -	-	-	-	0.021557 -	
32 Cod	Nursery	High	203	St	-	0.001916 -	-	0.001212 -	-	-	0.001847 -	-	-	-	0.000774 -	
33 Cod	Nursery	High	207	St	-	0.00079 -	-	0.00043 -	-	-	0.000714 -	-	-	-	0.000296 -	
34 Cod	Nursery	High	210	St	-	0.000379 -	-	0.000194 -	-	-	0.000332 -	-	-	-	0.000141 -	
35 Cod	Nursery	High	216	St	-	6.46E-05 -	-	3.91E-05 -	-	-	6.77E-05 -	-	-	-	3.27E-05 -	
36 Cod	Nursery	High	219	St	-	2.68E-05 -	-	1.69E-05 -	-	-	3.04E-05 -	-	-	-	1.70E-05 -	
37 Cod	Nursery	Low	186	Flee	-	0.016022 -	-	0 -	-	-	0 -	-	-	-	0.007246 -	
38 Cod	Nursery	Low	203	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	
39 Cod	Nursery	Low	207	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	
40 Cod	Nursery	Low	210	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	
41 Cod	Nursery	Low	216	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	
42 Cod	Nursery	Low	219	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	
43 Cod	Nursery	Low	186	St	-	0.03404 -	-	0.001913 -	-	-	0 -	-	-	-	0.023673 -	
44 Cod	Nursery	Low	203	St	-	0.00054 -	-	0 -	-	-	0 -	-	-	-	0.000544 -	
45 Cod	Nursery	Low	207	St	-	7.52E-05 -	-	0 -	-	-	0 -	-	-	-	0.000176 -	
46 Cod	Nursery	Low	210	St	-	0 -	-	0 -	-	-	0 -	-	-	-	7.05E-05 -	
47 Cod	Nursery	Low	216	St	-	0 -	-	0 -	-	-	0 -	-	-	-	8.45E-06 -	

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
48 Cod	Nursery	Low	219 St	-	0 -	-	0 -	-	0 -	-	0 -	-	0 -	-	2.27E-06	-
49 Cod	Nursery	Undetermin	186 Flee	0.004388	-	0.001393	0.020529	-	0.001324	0.012857	-	0.003004	0.001858	-	0.003719	
50 Cod	Nursery	Undetermin	203 Flee	0 -	0 -	0	5.19E-07	-	0	5.19E-07	-	1.21E-07	0 -	0 -	1.21E-07	
51 Cod	Nursery	Undetermin	207 Flee	0 -	0 -	0	5.19E-07	-	0	5.19E-07	-	1.21E-07	0 -	0 -	1.21E-07	
52 Cod	Nursery	Undetermin	210 Flee	0 -	0 -	0	5.19E-07	-	0	5.19E-07	-	1.21E-07	0 -	0 -	1.21E-07	
53 Cod	Nursery	Undetermin	216 Flee	0 -	0 -	0	2.08E-07	-	0	2.08E-07	-	4.86E-08	0 -	0 -	4.86E-08	
54 Cod	Nursery	Undetermin	219 Flee	0 -	0 -	0	2.08E-07	-	0	2.08E-07	-	4.86E-08	0 -	0 -	4.86E-08	
55 Cod	Nursery	Undetermin	186 St	0.024862	-	0.010576	0.04873	-	0.006728	0.070429	-	0.017029	0.013853	-	0.012345	
56 Cod	Nursery	Undetermin	203 St	0 -	0 -	0	0.001979	-	4.49E-05	0.003016	-	0.000705	0 -	0 -	0.000564	
57 Cod	Nursery	Undetermin	207 St	0 -	0 -	0	0.000702	-	0	0.001166	-	0.000272	0 -	0 -	0.0002	
58 Cod	Nursery	Undetermin	210 St	0 -	0 -	0	0.000316	-	0	0.000543	-	0.000127	0 -	0 -	8.85E-05	
59 Cod	Nursery	Undetermin	216 St	0 -	0 -	0	6.38E-05	-	0	0.000111	-	2.58E-05	0 -	0 -	1.67E-05	
60 Cod	Nursery	Undetermin	219 St	0 -	0 -	0	2.76E-05	-	0	4.96E-05	-	1.16E-05	0 -	0 -	7.61E-06	
61 Cod	Spawning	High	186 Flee	0	0 -	0	0 -	0.01915	0 -	0	0 -	0	0 -	0	0 -	
62 Cod	Spawning	High	203 Flee	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
63 Cod	Spawning	High	207 Flee	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
64 Cod	Spawning	High	210 Flee	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
65 Cod	Spawning	High	216 Flee	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
66 Cod	Spawning	High	219 Flee	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
67 Cod	Spawning	High	186 St	0	0 -	0.008347	0 -	0.165261	0 -	0	0.001657	0 -	0	0 -		
68 Cod	Spawning	High	203 St	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
69 Cod	Spawning	High	207 St	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
70 Cod	Spawning	High	210 St	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
71 Cod	Spawning	High	216 St	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
72 Cod	Spawning	High	219 St	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	0	0 -	
73 Cod	Spawning	Low	186 Flee	0	0.010852	-	0	0.010792	-	0.007064	0.003929	-	0.000109	0.002568	-	
74 Cod	Spawning	Low	203 Flee	0	1.59E-07	-	0	1.59E-07	-	5.59E-07	1.59E-07	-	0	1.59E-07	-	
75 Cod	Spawning	Low	207 Flee	0	1.59E-07	-	0	1.59E-07	-	5.59E-07	1.59E-07	-	0	1.59E-07	-	
76 Cod	Spawning	Low	210 Flee	0	1.59E-07	-	0	1.59E-07	-	5.59E-07	1.59E-07	-	0	1.59E-07	-	
77 Cod	Spawning	Low	216 Flee	0	6.36E-08	-	0	6.36E-08	-	2.24E-07	6.36E-08	-	0	6.36E-08	-	
78 Cod	Spawning	Low	219 Flee	0	6.36E-08	-	0	6.36E-08	-	2.24E-07	6.36E-08	-	0	6.36E-08	-	
79 Cod	Spawning	Low	186 St	0.002893	0.028112	-	0.010754	0.031155	-	0.024815	0.028294	-	0.007033	0.010774	-	
80 Cod	Spawning	Low	203 St	0	0.000962	-	0	0.000605	-	0.003197	0.000922	-	0	0.000389	-	
81 Cod	Spawning	Low	207 St	0	0.000397	-	0	0.000215	-	0.001255	0.000356	-	0	0.00015	-	
82 Cod	Spawning	Low	210 St	0	0.000189	-	0	9.66E-05	-	0.000584	0.000166	-	0	7.14E-05	-	
83 Cod	Spawning	Low	216 St	0	3.22E-05	-	0	1.95E-05	-	0.000119	3.38E-05	-	0	1.68E-05	-	
84 Cod	Spawning	Low	219 St	0	1.34E-05	-	0	8.43E-06	-	5.33E-05	1.51E-05	-	0	8.77E-06	-	
85 Cod	Spawning	Undetermin	186 Flee	0 -	0	0 -	0	0.000414	0 -	0	0.008643	0 -	0	0.001888		
86 Cod	Spawning	Undetermin	203 Flee	0 -	0	0 -	0	0	0 -	3.95E-07	0 -	0	0 -	0	0	
87 Cod	Spawning	Undetermin	207 Flee	0 -	0	0 -	0	0	0 -	3.95E-07	0 -	0	0 -	0	0	
88 Cod	Spawning	Undetermin	210 Flee	0 -	0	0 -	0	0	0 -	3.95E-07	0 -	0	0 -	0	0	
89 Cod	Spawning	Undetermin	216 Flee	0 -	0	0 -	0	0	0 -	1.58E-07	0 -	0	0 -	0	0	
90 Cod	Spawning	Undetermin	219 Flee	0 -	0	0 -	0	0	0 -	1.58E-07	0 -	0	0 -	0	0	
91 Cod	Spawning	Undetermin	186 St	0 -	0.007938	-	0	0.011967	-	0	0.045639	-	0	0	0.015712	
92 Cod	Spawning	Undetermin	203 St	0 -	0	0 -	0	0	0 -	0.002295	0 -	0	0 -	0	0	
93 Cod	Spawning	Undetermin	207 St	0 -	0	0 -	0	0	0 -	0.000887	0 -	0	0 -	0	0	
94 Cod	Spawning	Undetermin	210 St	0 -	0	0 -	0	0	0 -	0.000413	0 -	0	0 -	0	0	

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
95 Cod	Spawning	Undetermin	216 St		0 -		0	0 -		0	0 -	8.41E-05	0 -	0 -	0	0
96 Cod	Spawning	Undetermin	219 St		0 -		0	0 -		0	0 -	3.77E-05	0 -	0 -	0	0
97 Common skate	Nursery	Low	186 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
98 Common skate	Nursery	Low	203 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
99 Common skate	Nursery	Low	207 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
100 Common skate	Nursery	Low	210 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
101 Common skate	Nursery	Low	216 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
102 Common skate	Nursery	Low	219 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
103 Common skate	Nursery	Low	186 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
104 Common skate	Nursery	Low	203 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
105 Common skate	Nursery	Low	207 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
106 Common skate	Nursery	Low	210 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
107 Common skate	Nursery	Low	216 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
108 Common skate	Nursery	Low	219 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
109 European hake	Nursery	Low	186 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
110 European hake	Nursery	Low	203 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
111 European hake	Nursery	Low	207 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
112 European hake	Nursery	Low	210 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
113 European hake	Nursery	Low	216 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
114 European hake	Nursery	Low	219 Flee	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
115 European hake	Nursery	Low	186 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
116 European hake	Nursery	Low	203 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
117 European hake	Nursery	Low	207 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
118 European hake	Nursery	Low	210 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
119 European hake	Nursery	Low	216 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
120 European hake	Nursery	Low	219 St	-		0 -	-		0 -	-		0 -	-	-	0 -	0 -
121 Haddock	Nursery	Undetermin	186 Flee	0.014247 -		0 0.032356 -			0 0.012387 -		0.000154	0.006338 -			0	
122 Haddock	Nursery	Undetermin	203 Flee	0 -		0 5.00E-07 -			0 5.00E-07 -		0	0 -			0	
123 Haddock	Nursery	Undetermin	207 Flee	0 -		0 5.00E-07 -			0 5.00E-07 -		0	0 -			0	
124 Haddock	Nursery	Undetermin	210 Flee	0 -		0 5.00E-07 -			0 5.00E-07 -		0	0 -			0	
125 Haddock	Nursery	Undetermin	216 Flee	0 -		0 2.01E-07 -			0 2.01E-07 -		0	0 -			0	
126 Haddock	Nursery	Undetermin	219 Flee	0 -		0 2.01E-07 -			0 2.01E-07 -		0	0 -			0	
127 Haddock	Nursery	Undetermin	186 St	0.047137 -		0 0.075473 -			0 0.08903 -		0.024092	0.028552 -			0	
128 Haddock	Nursery	Undetermin	203 St	0.001594 -		0 0.001907 -			0 0.002906 -		0	0.000788 -			0	
129 Haddock	Nursery	Undetermin	207 St	0.000513 -		0 0.000677 -			0 0.001123 -		0	0.000213 -			0	
130 Haddock	Nursery	Undetermin	210 St	0.000192 -		0 0.000305 -			0 0.000523 -		0	5.77E-05 -			0	
131 Haddock	Nursery	Undetermin	216 St	1.23E-05 -		0 6.15E-05 -			0 0.000107 -		0	0 -			0	
132 Haddock	Nursery	Undetermin	219 St	1.32E-08 -		0 2.66E-05 -			0 4.78E-05 -		0	0 -			0	
133 Haddock	Spawning	Undetermin	186 Flee	-	-	0 -	-		0.003024 -	-	0.034738 -	-	-	0		
134 Haddock	Spawning	Undetermin	203 Flee	-	-	0 -	-		0 -	-	1.63E-06 -	-	-	0		
135 Haddock	Spawning	Undetermin	207 Flee	-	-	0 -	-		0 -	-	1.63E-06 -	-	-	0		
136 Haddock	Spawning	Undetermin	210 Flee	-	-	0 -	-		0 -	-	1.63E-06 -	-	-	0		
137 Haddock	Spawning	Undetermin	216 Flee	-	-	0 -	-		0 -	-	6.54E-07 -	-	-	0		
138 Haddock	Spawning	Undetermin	219 Flee	-	-	0 -	-		0 -	-	6.54E-07 -	-	-	0		
139 Haddock	Spawning	Undetermin	186 St	-	-	0.00225 -	-		0.033644 -	-	0.1347 -	-	-	0.012833		
140 Haddock	Spawning	Undetermin	203 St	-	-	0 -	-		0 -	-	0.008539 -	-	-	0		
141 Haddock	Spawning	Undetermin	207 St	-	-	0 -	-		0 -	-	0.003652 -	-	-	0		

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
142 Haddock	Spawning	Undetermin	210 St	-	-		0 -	-		0 -	-	0.001706	-	-	0	
143 Haddock	Spawning	Undetermin	216 St	-	-		0 -	-		0 -	-	0.000347	-	-	0	
144 Haddock	Spawning	Undetermin	219 St	-	-		0 -	-		0 -	-	0.000156	-	-	0	
145 Hake	Nursery	Undetermin	186 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
146 Hake	Nursery	Undetermin	203 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
147 Hake	Nursery	Undetermin	207 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
148 Hake	Nursery	Undetermin	210 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
149 Hake	Nursery	Undetermin	216 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
150 Hake	Nursery	Undetermin	219 Flee	-	-		0 -	-		0 -	-	0 -	-	-	0	
151 Hake	Nursery	Undetermin	186 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
152 Hake	Nursery	Undetermin	203 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
153 Hake	Nursery	Undetermin	207 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
154 Hake	Nursery	Undetermin	210 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
155 Hake	Nursery	Undetermin	216 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
156 Hake	Nursery	Undetermin	219 St	-	-		0 -	-		0 -	-	0 -	-	-	0	
157 Hake	Spawning	Low	186 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
158 Hake	Spawning	Low	203 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
159 Hake	Spawning	Low	207 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
160 Hake	Spawning	Low	210 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
161 Hake	Spawning	Low	216 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
162 Hake	Spawning	Low	219 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
163 Hake	Spawning	Low	186 St	-		0 -	-		0 -	-	0 -	-		0 -		
164 Hake	Spawning	Low	203 St	-		0 -	-		0 -	-	0 -	-		0 -		
165 Hake	Spawning	Low	207 St	-		0 -	-		0 -	-	0 -	-		0 -		
166 Hake	Spawning	Low	210 St	-		0 -	-		0 -	-	0 -	-		0 -		
167 Hake	Spawning	Low	216 St	-		0 -	-		0 -	-	0 -	-		0 -		
168 Hake	Spawning	Low	219 St	-		0 -	-		0 -	-	0 -	-		0 -		
169 Hake	Spawning	Undetermin	186 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
170 Hake	Spawning	Undetermin	203 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
171 Hake	Spawning	Undetermin	207 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
172 Hake	Spawning	Undetermin	210 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
173 Hake	Spawning	Undetermin	216 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
174 Hake	Spawning	Undetermin	219 Flee	-	-		0 -	-		0 -	-	0 -	-		0	
175 Hake	Spawning	Undetermin	186 St	-	-		0 -	-		0 -	-	0 -	-		0	
176 Hake	Spawning	Undetermin	203 St	-	-		0 -	-		0 -	-	0 -	-		0	
177 Hake	Spawning	Undetermin	207 St	-	-		0 -	-		0 -	-	0 -	-		0	
178 Hake	Spawning	Undetermin	210 St	-	-		0 -	-		0 -	-	0 -	-		0	
179 Hake	Spawning	Undetermin	216 St	-	-		0 -	-		0 -	-	0 -	-		0	
180 Hake	Spawning	Undetermin	219 St	-	-		0 -	-		0 -	-	0 -	-		0	
181 Herring	Nursery	High	186 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
182 Herring	Nursery	High	203 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
183 Herring	Nursery	High	207 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
184 Herring	Nursery	High	210 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
185 Herring	Nursery	High	216 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
186 Herring	Nursery	High	219 Flee	-		0 -	-		0 -	-	0 -	-		0 -		
187 Herring	Nursery	High	186 St	-		0 -	-		0 -	-	0 -	-		0 -		
188 Herring	Nursery	High	203 St	-		0 -	-		0 -	-	0 -	-		0 -		

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
189 Herring	Nursery	High	207 St	-		0 -	-		0 -	-		0 -	-		0 -	
190 Herring	Nursery	High	210 St	-		0 -	-		0 -	-		0 -	-		0 -	
191 Herring	Nursery	High	216 St	-		0 -	-		0 -	-		0 -	-		0 -	
192 Herring	Nursery	High	219 St	-		0 -	-		0 -	-		0 -	-		0 -	
193 Herring	Nursery	Low	186 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
194 Herring	Nursery	Low	203 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
195 Herring	Nursery	Low	207 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
196 Herring	Nursery	Low	210 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
197 Herring	Nursery	Low	216 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
198 Herring	Nursery	Low	219 Flee	-		0 -	-		0 -	-		0 -	-		0 -	
199 Herring	Nursery	Low	186 St	-		0 -	-		0 -	-		0 -	-		0 -	
200 Herring	Nursery	Low	203 St	-		0 -	-		0 -	-		0 -	-		0 -	
201 Herring	Nursery	Low	207 St	-		0 -	-		0 -	-		0 -	-		0 -	
202 Herring	Nursery	Low	210 St	-		0 -	-		0 -	-		0 -	-		0 -	
203 Herring	Nursery	Low	216 St	-		0 -	-		0 -	-		0 -	-		0 -	
204 Herring	Nursery	Low	219 St	-		0 -	-		0 -	-		0 -	-		0 -	
205 Herring	Nursery	Undetermin	186 Flee		0 -		0	0 -		0	0 -		0	0 -		0
206 Herring	Nursery	Undetermin	203 Flee		0 -		0	0 -		0	0 -		0	0 -		0
207 Herring	Nursery	Undetermin	207 Flee		0 -		0	0 -		0	0 -		0	0 -		0
208 Herring	Nursery	Undetermin	210 Flee		0 -		0	0 -		0	0 -		0	0 -		0
209 Herring	Nursery	Undetermin	216 Flee		0 -		0	0 -		0	0 -		0	0 -		0
210 Herring	Nursery	Undetermin	219 Flee		0 -		0	0 -		0	0 -		0	0 -		0
211 Herring	Nursery	Undetermin	186 St		0 -		0	0 -		0	0 -		0	0 -		0
212 Herring	Nursery	Undetermin	203 St		0 -		0	0 -		0	0 -		0	0 -		0
213 Herring	Nursery	Undetermin	207 St		0 -		0	0 -		0	0 -		0	0 -		0
214 Herring	Nursery	Undetermin	210 St		0 -		0	0 -		0	0 -		0	0 -		0
215 Herring	Nursery	Undetermin	216 St		0 -		0	0 -		0	0 -		0	0 -		0
216 Herring	Nursery	Undetermin	219 St		0 -		0	0 -		0	0 -		0	0 -		0
217 Herring	Spawning	High	186 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
218 Herring	Spawning	High	203 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
219 Herring	Spawning	High	207 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
220 Herring	Spawning	High	210 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
221 Herring	Spawning	High	216 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
222 Herring	Spawning	High	219 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
223 Herring	Spawning	High	186 St		0 -	-		0 -	-		0 -	-		0 -	-	
224 Herring	Spawning	High	203 St		0 -	-		0 -	-		0 -	-		0 -	-	
225 Herring	Spawning	High	207 St		0 -	-		0 -	-		0 -	-		0 -	-	
226 Herring	Spawning	High	210 St		0 -	-		0 -	-		0 -	-		0 -	-	
227 Herring	Spawning	High	216 St		0 -	-		0 -	-		0 -	-		0 -	-	
228 Herring	Spawning	High	219 St		0 -	-		0 -	-		0 -	-		0 -	-	
229 Herring	Spawning	Low	186 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
230 Herring	Spawning	Low	203 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
231 Herring	Spawning	Low	207 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
232 Herring	Spawning	Low	210 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
233 Herring	Spawning	Low	216 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
234 Herring	Spawning	Low	219 Flee		0 -	-		0 -	-		0 -	-		0 -	-	
235 Herring	Spawning	Low	186 St		0 -	-		0 -	-		0 -	-		0 -	-	

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
236 Herring	Spawning	Low	203 St		0 -	-		0 -	-		0 -	-		0 -	-	
237 Herring	Spawning	Low	207 St		0 -	-		0 -	-		0 -	-		0 -	-	
238 Herring	Spawning	Low	210 St		0 -	-		0 -	-		0 -	-		0 -	-	
239 Herring	Spawning	Low	216 St		0 -	-		0 -	-		0 -	-		0 -	-	
240 Herring	Spawning	Low	219 St		0 -	-		0 -	-		0 -	-		0 -	-	
241 Herring	Spawning	Undetermin	186 Flee		0 -		0	0 -		0	0 -		0	0 -		0
242 Herring	Spawning	Undetermin	203 Flee		0 -		0	0 -		0	0 -		0	0 -		0
243 Herring	Spawning	Undetermin	207 Flee		0 -		0	0 -		0	0 -		0	0 -		0
244 Herring	Spawning	Undetermin	210 Flee		0 -		0	0 -		0	0 -		0	0 -		0
245 Herring	Spawning	Undetermin	216 Flee		0 -		0	0 -		0	0 -		0	0 -		0
246 Herring	Spawning	Undetermin	219 Flee		0 -		0	0 -		0	0 -		0	0 -		0
247 Herring	Spawning	Undetermin	186 St		0 -		0	0 -		0	0 -		0	0 -		0
248 Herring	Spawning	Undetermin	203 St		0 -		0	0 -		0	0 -		0	0 -		0
249 Herring	Spawning	Undetermin	207 St		0 -		0	0 -		0	0 -		0	0 -		0
250 Herring	Spawning	Undetermin	210 St		0 -		0	0 -		0	0 -		0	0 -		0
251 Herring	Spawning	Undetermin	216 St		0 -		0	0 -		0	0 -		0	0 -		0
252 Herring	Spawning	Undetermin	219 St		0 -		0	0 -		0	0 -		0	0 -		0
253 HorseMackerel	Nursery	Undetermin	186 Flee	-	-	0.014809	-	-	0.006683	-	-	0.002434	-	-	0.004484	
254 HorseMackerel	Nursery	Undetermin	203 Flee	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	
255 HorseMackerel	Nursery	Undetermin	207 Flee	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	
256 HorseMackerel	Nursery	Undetermin	210 Flee	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	-	-	9.83E-08	
257 HorseMackerel	Nursery	Undetermin	216 Flee	-	-	3.94E-08	-	-	3.94E-08	-	-	3.94E-08	-	-	3.94E-08	
258 HorseMackerel	Nursery	Undetermin	219 Flee	-	-	3.94E-08	-	-	3.94E-08	-	-	3.94E-08	-	-	3.94E-08	
259 HorseMackerel	Nursery	Undetermin	186 St	-	-	0.037885	-	-	0.020054	-	-	0.017522	-	-	0.016137	
260 HorseMackerel	Nursery	Undetermin	203 St	-	-	0.000808	-	-	0.000375	-	-	0.000571	-	-	0.000457	
261 HorseMackerel	Nursery	Undetermin	207 St	-	-	0.000274	-	-	0.000133	-	-	0.000221	-	-	0.000162	
262 HorseMackerel	Nursery	Undetermin	210 St	-	-	0.000117	-	-	5.98E-05	-	-	0.000103	-	-	7.17E-05	
263 HorseMackerel	Nursery	Undetermin	216 St	-	-	2.00E-05	-	-	1.21E-05	-	-	2.09E-05	-	-	1.35E-05	
264 HorseMackerel	Nursery	Undetermin	219 St	-	-	8.29E-06	-	-	5.22E-06	-	-	9.38E-06	-	-	6.17E-06	
265 HorseMackerel	Spawning	Low	186 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
266 HorseMackerel	Spawning	Low	203 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
267 HorseMackerel	Spawning	Low	207 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
268 HorseMackerel	Spawning	Low	210 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
269 HorseMackerel	Spawning	Low	216 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
270 HorseMackerel	Spawning	Low	219 Flee	-	0 -	-		0 -	-		0 -	-		0 -		
271 HorseMackerel	Spawning	Low	186 St	-	0 -	-		0 -	-		0 -	-		0 -		
272 HorseMackerel	Spawning	Low	203 St	-	0 -	-		0 -	-		0 -	-		0 -		
273 HorseMackerel	Spawning	Low	207 St	-	0 -	-		0 -	-		0 -	-		0 -		
274 HorseMackerel	Spawning	Low	210 St	-	0 -	-		0 -	-		0 -	-		0 -		
275 HorseMackerel	Spawning	Low	216 St	-	0 -	-		0 -	-		0 -	-		0 -		
276 HorseMackerel	Spawning	Low	219 St	-	0 -	-		0 -	-		0 -	-		0 -		
277 HorseMackerel	Spawning	Undetermin	186 Flee	-	-	0 -	-		0 -	-		0 -	-		0	
278 HorseMackerel	Spawning	Undetermin	203 Flee	-	-	0 -	-		0 -	-		0 -	-		0	
279 HorseMackerel	Spawning	Undetermin	207 Flee	-	-	0 -	-		0 -	-		0 -	-		0	
280 HorseMackerel	Spawning	Undetermin	210 Flee	-	-	0 -	-		0 -	-		0 -	-		0	
281 HorseMackerel	Spawning	Undetermin	216 Flee	-	-	0 -	-		0 -	-		0 -	-		0	
282 HorseMackerel	Spawning	Undetermin	219 Flee	-	-	0 -	-		0 -	-		0 -	-		0	

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
283 HorseMackerel	Spawning	Undetermin	186 St	-	-	-	0	-	-	0	-	-	0	-	-	0
284 HorseMackerel	Spawning	Undetermin	203 St	-	-	-	0	-	-	0	-	-	0	-	-	0
285 HorseMackerel	Spawning	Undetermin	207 St	-	-	-	0	-	-	0	-	-	0	-	-	0
286 HorseMackerel	Spawning	Undetermin	210 St	-	-	-	0	-	-	0	-	-	0	-	-	0
287 HorseMackerel	Spawning	Undetermin	216 St	-	-	-	0	-	-	0	-	-	0	-	-	0
288 HorseMackerel	Spawning	Undetermin	219 St	-	-	-	0	-	-	0	-	-	0	-	-	0
289 Lemon Sole	Nursery	Undetermin	186 Flee	0.037964	-	-	0.017134	-	-	0.006239	-	-	0.011495	-	-	-
290 Lemon Sole	Nursery	Undetermin	203 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
291 Lemon Sole	Nursery	Undetermin	207 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
292 Lemon Sole	Nursery	Undetermin	210 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
293 Lemon Sole	Nursery	Undetermin	216 Flee	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	-
294 Lemon Sole	Nursery	Undetermin	219 Flee	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	-
295 Lemon Sole	Nursery	Undetermin	186 St	0.097124	-	-	0.051412	-	-	0.04484	-	-	0.041372	-	-	-
296 Lemon Sole	Nursery	Undetermin	203 St	0.002072	-	-	0.00096	-	-	0.001463	-	-	0.001172	-	-	-
297 Lemon Sole	Nursery	Undetermin	207 St	0.000703	-	-	0.000341	-	-	0.000566	-	-	0.000415	-	-	-
298 Lemon Sole	Nursery	Undetermin	210 St	0.0003	-	-	0.000153	-	-	0.000263	-	-	0.000184	-	-	-
299 Lemon Sole	Nursery	Undetermin	216 St	5.12E-05	-	-	3.10E-05	-	-	5.37E-05	-	-	3.46E-05	-	-	-
300 Lemon Sole	Nursery	Undetermin	219 St	2.13E-05	-	-	1.34E-05	-	-	2.41E-05	-	-	1.58E-05	-	-	-
301 Lemon Sole	Spawning	Undetermin	186 Flee	0.037946	-	-	0.017126	-	-	0.006236	-	-	0.011489	-	-	-
302 Lemon Sole	Spawning	Undetermin	203 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
303 Lemon Sole	Spawning	Undetermin	207 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
304 Lemon Sole	Spawning	Undetermin	210 Flee	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	2.52E-07	-	-	-
305 Lemon Sole	Spawning	Undetermin	216 Flee	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	-
306 Lemon Sole	Spawning	Undetermin	219 Flee	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	1.01E-07	-	-	-
307 Lemon Sole	Spawning	Undetermin	186 St	0.097077	-	-	0.051387	-	-	0.044819	-	-	0.041351	-	-	-
308 Lemon Sole	Spawning	Undetermin	203 St	0.002071	-	-	0.00096	-	-	0.001463	-	-	0.001171	-	-	-
309 Lemon Sole	Spawning	Undetermin	207 St	0.000702	-	-	0.000341	-	-	0.000566	-	-	0.000415	-	-	-
310 Lemon Sole	Spawning	Undetermin	210 St	0.0003	-	-	0.000153	-	-	0.000263	-	-	0.000184	-	-	-
311 Lemon Sole	Spawning	Undetermin	216 St	5.11E-05	-	-	3.09E-05	-	-	5.36E-05	-	-	3.46E-05	-	-	-
312 Lemon Sole	Spawning	Undetermin	219 St	2.13E-05	-	-	1.34E-05	-	-	2.40E-05	-	-	1.58E-05	-	-	-
313 Ling	Nursery	Low	186 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
314 Ling	Nursery	Low	203 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
315 Ling	Nursery	Low	207 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
316 Ling	Nursery	Low	210 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
317 Ling	Nursery	Low	216 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
318 Ling	Nursery	Low	219 Flee	-	0	-	0	-	-	0	-	-	0	-	-	0
319 Ling	Nursery	Low	186 St	-	0	-	0	-	-	0	-	-	0	-	-	0
320 Ling	Nursery	Low	203 St	-	0	-	0	-	-	0	-	-	0	-	-	0
321 Ling	Nursery	Low	207 St	-	0	-	0	-	-	0	-	-	0	-	-	0
322 Ling	Nursery	Low	210 St	-	0	-	0	-	-	0	-	-	0	-	-	0
323 Ling	Nursery	Low	216 St	-	0	-	0	-	-	0	-	-	0	-	-	0
324 Ling	Nursery	Low	219 St	-	0	-	0	-	-	0	-	-	0	-	-	0
325 Ling	Spawning	Low	186 Flee	-	0.01426	-	0.014198	-	-	0.00517	-	-	0.003363	-	-	-
326 Ling	Spawning	Low	203 Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	-	-
327 Ling	Spawning	Low	207 Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	-	-
328 Ling	Spawning	Low	210 Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	-	-
329 Ling	Spawning	Low	216 Flee	-	8.37E-08	-	8.37E-08	-	-	8.37E-08	-	-	8.37E-08	-	-	-

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
330 Ling	Spawning	Low	219	Flee	-	8.37E-08	-									
331 Ling	Spawning	Low	186	St	-	0.036952	-	-	0.040977	-	-	0.037225	-	-	0.014154	-
332 Ling	Spawning	Low	203	St	-	0.001258	-	-	0.000796	-	-	0.001213	-	-	0.000508	-
333 Ling	Spawning	Low	207	St	-	0.000518	-	-	0.000282	-	-	0.000469	-	-	0.000194	-
334 Ling	Spawning	Low	210	St	-	0.000249	-	-	0.000127	-	-	0.000218	-	-	9.23E-05	-
335 Ling	Spawning	Low	216	St	-	4.24E-05	-	-	2.57E-05	-	-	4.45E-05	-	-	2.15E-05	-
336 Ling	Spawning	Low	219	St	-	1.76E-05	-	-	1.11E-05	-	-	1.99E-05	-	-	1.12E-05	-
337 Mackerel	Nursery	Low	186	Flee	-	0	-	-	0	-	-	0	-	-	0	-
338 Mackerel	Nursery	Low	203	Flee	-	0	-	-	0	-	-	0	-	-	0	-
339 Mackerel	Nursery	Low	207	Flee	-	0	-	-	0	-	-	0	-	-	0	-
340 Mackerel	Nursery	Low	210	Flee	-	0	-	-	0	-	-	0	-	-	0	-
341 Mackerel	Nursery	Low	216	Flee	-	0	-	-	0	-	-	0	-	-	0	-
342 Mackerel	Nursery	Low	219	Flee	-	0	-	-	0	-	-	0	-	-	0	-
343 Mackerel	Nursery	Low	186	St	-	0	-	-	0	-	-	0	-	-	0	-
344 Mackerel	Nursery	Low	203	St	-	0	-	-	0	-	-	0	-	-	0	-
345 Mackerel	Nursery	Low	207	St	-	0	-	-	0	-	-	0	-	-	0	-
346 Mackerel	Nursery	Low	210	St	-	0	-	-	0	-	-	0	-	-	0	-
347 Mackerel	Nursery	Low	216	St	-	0	-	-	0	-	-	0	-	-	0	-
348 Mackerel	Nursery	Low	219	St	-	0	-	-	0	-	-	0	-	-	0	-
349 Mackerel	Nursery	Undetermin	186	Flee	-	-	0.014811	-	-	0.006684	-	-	0.002434	-	-	0.004484
350 Mackerel	Nursery	Undetermin	203	Flee	-	-	9.83E-08									
351 Mackerel	Nursery	Undetermin	207	Flee	-	-	9.83E-08									
352 Mackerel	Nursery	Undetermin	210	Flee	-	-	9.83E-08									
353 Mackerel	Nursery	Undetermin	216	Flee	-	-	3.94E-08									
354 Mackerel	Nursery	Undetermin	219	Flee	-	-	3.94E-08									
355 Mackerel	Nursery	Undetermin	186	St	-	-	0.037891	-	-	0.020057	-	-	0.017524	-	-	0.016139
356 Mackerel	Nursery	Undetermin	203	St	-	-	0.000809	-	-	0.000375	-	-	0.000571	-	-	0.000457
357 Mackerel	Nursery	Undetermin	207	St	-	-	0.000274	-	-	0.000133	-	-	0.000221	-	-	0.000162
358 Mackerel	Nursery	Undetermin	210	St	-	-	0.000117	-	-	5.99E-05	-	-	0.000103	-	-	7.17E-05
359 Mackerel	Nursery	Undetermin	216	St	-	-	2.00E-05	-	-	1.21E-05	-	-	2.09E-05	-	-	1.35E-05
360 Mackerel	Nursery	Undetermin	219	St	-	-	8.30E-06	-	-	5.22E-06	-	-	9.38E-06	-	-	6.17E-06
361 Mackerel	Spawning	Low	186	Flee	-	0.010007	-	-	0.009964	-	-	0.003628	-	-	0.00236	-
362 Mackerel	Spawning	Low	203	Flee	-	1.47E-07	-									
363 Mackerel	Spawning	Low	207	Flee	-	1.47E-07	-									
364 Mackerel	Spawning	Low	210	Flee	-	1.47E-07	-									
365 Mackerel	Spawning	Low	216	Flee	-	5.87E-08	-									
366 Mackerel	Spawning	Low	219	Flee	-	5.87E-08	-									
367 Mackerel	Spawning	Low	186	St	-	0.025932	-	-	0.028756	-	-	0.026123	-	-	0.009933	-
368 Mackerel	Spawning	Low	203	St	-	0.000883	-	-	0.000558	-	-	0.000851	-	-	0.000356	-
369 Mackerel	Spawning	Low	207	St	-	0.000364	-	-	0.000198	-	-	0.000329	-	-	0.000136	-
370 Mackerel	Spawning	Low	210	St	-	0.000175	-	-	8.92E-05	-	-	0.000153	-	-	6.48E-05	-
371 Mackerel	Spawning	Low	216	St	-	2.98E-05	-	-	1.80E-05	-	-	3.12E-05	-	-	1.51E-05	-
372 Mackerel	Spawning	Low	219	St	-	1.24E-05	-	-	7.78E-06	-	-	1.40E-05	-	-	7.84E-06	-
373 Mackerel	Spawning	Undetermin	186	Flee	-	-	0	-	-	0	-	-	0	-	-	0
374 Mackerel	Spawning	Undetermin	203	Flee	-	-	0	-	-	0	-	-	0	-	-	0
375 Mackerel	Spawning	Undetermin	207	Flee	-	-	0	-	-	0	-	-	0	-	-	0
376 Mackerel	Spawning	Undetermin	210	Flee	-	-	0	-	-	0	-	-	0	-	-	0

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
377 Mackerel	Spawning	Undetermin	216 Flee	-	-	0	-	-	0	-	-	0	-	-	-	0
378 Mackerel	Spawning	Undetermin	219 Flee	-	-	0	-	-	0	-	-	0	-	-	-	0
379 Mackerel	Spawning	Undetermin	186 St	-	-	0	-	-	0	-	-	0	-	-	-	0
380 Mackerel	Spawning	Undetermin	203 St	-	-	0	-	-	0	-	-	0	-	-	-	0
381 Mackerel	Spawning	Undetermin	207 St	-	-	0	-	-	0	-	-	0	-	-	-	0
382 Mackerel	Spawning	Undetermin	210 St	-	-	0	-	-	0	-	-	0	-	-	-	0
383 Mackerel	Spawning	Undetermin	216 St	-	-	0	-	-	0	-	-	0	-	-	-	0
384 Mackerel	Spawning	Undetermin	219 St	-	-	0	-	-	0	-	-	0	-	-	-	0
385 Plaice	Nursery	Low	186 Flee	-	0.01043	-	-	0.01407	-	-	0.005285	-	-	0.003439	-	
386 Plaice	Nursery	Low	203 Flee	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	
387 Plaice	Nursery	Low	207 Flee	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	
388 Plaice	Nursery	Low	210 Flee	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	-	2.13E-07	-	
389 Plaice	Nursery	Low	216 Flee	-	8.56E-08	-	-	8.56E-08	-	-	8.56E-08	-	-	8.56E-08	-	
390 Plaice	Nursery	Low	219 Flee	-	8.56E-08	-	-	8.56E-08	-	-	8.56E-08	-	-	8.56E-08	-	
391 Plaice	Nursery	Low	186 St	-	0.023156	-	-	0.032695	-	-	0.038058	-	-	0.01447	-	
392 Plaice	Nursery	Low	203 St	-	0.001286	-	-	0.000814	-	-	0.00124	-	-	0.000519	-	
393 Plaice	Nursery	Low	207 St	-	0.00053	-	-	0.000289	-	-	0.000479	-	-	0.000199	-	
394 Plaice	Nursery	Low	210 St	-	0.000254	-	-	0.00013	-	-	0.000223	-	-	9.44E-05	-	
395 Plaice	Nursery	Low	216 St	-	4.33E-05	-	-	2.62E-05	-	-	4.55E-05	-	-	2.20E-05	-	
396 Plaice	Nursery	Low	219 St	-	1.80E-05	-	-	1.13E-05	-	-	2.04E-05	-	-	1.14E-05	-	
397 Plaice	Nursery	Undetermin	186 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
398 Plaice	Nursery	Undetermin	203 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
399 Plaice	Nursery	Undetermin	207 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
400 Plaice	Nursery	Undetermin	210 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
401 Plaice	Nursery	Undetermin	216 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
402 Plaice	Nursery	Undetermin	219 Flee	0	-	0	-	0	-	-	0	-	-	0	-	
403 Plaice	Nursery	Undetermin	186 St	0	-	0	-	0	-	-	0	-	-	0	-	
404 Plaice	Nursery	Undetermin	203 St	0	-	0	-	0	-	-	0	-	-	0	-	
405 Plaice	Nursery	Undetermin	207 St	0	-	0	-	0	-	-	0	-	-	0	-	
406 Plaice	Nursery	Undetermin	210 St	0	-	0	-	0	-	-	0	-	-	0	-	
407 Plaice	Nursery	Undetermin	216 St	0	-	0	-	0	-	-	0	-	-	0	-	
408 Plaice	Nursery	Undetermin	219 St	0	-	0	-	0	-	-	0	-	-	0	-	
409 Plaice	Spawning	High	186 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
410 Plaice	Spawning	High	203 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
411 Plaice	Spawning	High	207 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
412 Plaice	Spawning	High	210 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
413 Plaice	Spawning	High	216 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
414 Plaice	Spawning	High	219 Flee	0	0	0	-	0	0	-	0	0	-	0	0	-
415 Plaice	Spawning	High	186 St	0	0	0	-	0	0.000601	-	0	0.011648	-	0	0	-
416 Plaice	Spawning	High	203 St	0	0	0	-	0	0	-	0	0	-	0	0	-
417 Plaice	Spawning	High	207 St	0	0	0	-	0	0	-	0	0	-	0	0	-
418 Plaice	Spawning	High	210 St	0	0	0	-	0	0	-	0	0	-	0	0	-
419 Plaice	Spawning	High	216 St	0	0	0	-	0	0	-	0	0	-	0	0	-
420 Plaice	Spawning	High	219 St	0	0	0	-	0	0	-	0	0	-	0	0	-
421 Plaice	Spawning	Low	186 Flee	0	0.010624	-	-	0	0.010565	-	0.005396	0.003847	-	0.002944	0.002514	-
422 Plaice	Spawning	Low	203 Flee	0	1.55E-07	-	-	0	1.55E-07	-	3.66E-07	1.55E-07	-	0	1.55E-07	-
423 Plaice	Spawning	Low	207 Flee	0	1.55E-07	-	-	0	1.55E-07	-	3.66E-07	1.55E-07	-	0	1.55E-07	-

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
424 Plaice	Spawning	Low	210	Flee	0	1.55E-07	-	0	1.55E-07	-	3.66E-07	1.55E-07	-	0	1.55E-07	-
425 Plaice	Spawning	Low	216	Flee	0	6.23E-08	-	0	6.23E-08	-	1.47E-07	6.23E-08	-	0	6.23E-08	-
426 Plaice	Spawning	Low	219	Flee	0	6.23E-08	-	0	6.23E-08	-	1.47E-07	6.23E-08	-	0	6.23E-08	-
427 Plaice	Spawning	Low	186	St	0.008194	0.02752	-	0.005107	0.0303	-	0.033434	0.023826	-	0.015107	0.010547	-
428 Plaice	Spawning	Low	203	St	0	0.000942	-	0	0.000592	-	0.001868	0.000902	-	0.000244	0.000381	-
429 Plaice	Spawning	Low	207	St	0	0.000388	-	0	0.00021	-	0.000818	0.000349	-	6.36E-06	0.000147	-
430 Plaice	Spawning	Low	210	St	0	0.000185	-	0	9.46E-05	-	0.000383	0.000162	-	0	6.99E-05	-
431 Plaice	Spawning	Low	216	St	0	3.16E-05	-	0	1.91E-05	-	7.80E-05	3.31E-05	-	0	1.65E-05	-
432 Plaice	Spawning	Low	219	St	0	1.31E-05	-	0	8.25E-06	-	3.50E-05	1.48E-05	-	0	8.59E-06	-
433 Plaice	Spawning	Undetermin	186	Flee	0	-	-	0	-	-	0	-	-	0	-	-
434 Plaice	Spawning	Undetermin	203	Flee	0	-	-	0	-	-	0	-	-	0	-	-
435 Plaice	Spawning	Undetermin	207	Flee	0	-	-	0	-	-	0	-	-	0	-	-
436 Plaice	Spawning	Undetermin	210	Flee	0	-	-	0	-	-	0	-	-	0	-	-
437 Plaice	Spawning	Undetermin	216	Flee	0	-	-	0	-	-	0	-	-	0	-	-
438 Plaice	Spawning	Undetermin	219	Flee	0	-	-	0	-	-	0	-	-	0	-	-
439 Plaice	Spawning	Undetermin	186	St	0	-	-	0	-	-	0	-	-	0	-	-
440 Plaice	Spawning	Undetermin	203	St	0	-	-	0	-	-	0	-	-	0	-	-
441 Plaice	Spawning	Undetermin	207	St	0	-	-	0	-	-	0	-	-	0	-	-
442 Plaice	Spawning	Undetermin	210	St	0	-	-	0	-	-	0	-	-	0	-	-
443 Plaice	Spawning	Undetermin	216	St	0	-	-	0	-	-	0	-	-	0	-	-
444 Plaice	Spawning	Undetermin	219	St	0	-	-	0	-	-	0	-	-	0	-	-
445 Sandeel	Nursery	Low	186	Flee	-	0.031983	-	0.018474	-	-	0.00694	-	-	0.012786	-	-
446 Sandeel	Nursery	Low	203	Flee	-	2.80E-07	-	2.80E-07	-	-	2.80E-07	-	-	2.80E-07	-	-
447 Sandeel	Nursery	Low	207	Flee	-	2.80E-07	-	2.80E-07	-	-	2.80E-07	-	-	2.80E-07	-	-
448 Sandeel	Nursery	Low	210	Flee	-	2.80E-07	-	2.80E-07	-	-	2.80E-07	-	-	2.80E-07	-	-
449 Sandeel	Nursery	Low	216	Flee	-	1.12E-07	-	1.12E-07	-	-	1.12E-07	-	-	1.12E-07	-	-
450 Sandeel	Nursery	Low	219	Flee	-	1.12E-07	-	1.12E-07	-	-	1.12E-07	-	-	1.12E-07	-	-
451 Sandeel	Nursery	Low	186	St	-	0.06926	-	0.045112	-	-	0.045793	-	-	0.045028	-	-
452 Sandeel	Nursery	Low	203	St	-	0.002305	-	0.001068	-	-	0.001628	-	-	0.001303	-	-
453 Sandeel	Nursery	Low	207	St	-	0.000782	-	0.000379	-	-	0.000629	-	-	0.000462	-	-
454 Sandeel	Nursery	Low	210	St	-	0.000334	-	0.000171	-	-	0.000293	-	-	0.000204	-	-
455 Sandeel	Nursery	Low	216	St	-	5.69E-05	-	3.44E-05	-	-	5.97E-05	-	-	3.85E-05	-	-
456 Sandeel	Nursery	Low	219	St	-	2.37E-05	-	1.49E-05	-	-	2.68E-05	-	-	1.76E-05	-	-
457 Sandeel	Spawning	High	186	Flee	-	0	-	0	-	-	0	-	-	0	-	-
458 Sandeel	Spawning	High	203	Flee	-	0	-	0	-	-	0	-	-	0	-	-
459 Sandeel	Spawning	High	207	Flee	-	0	-	0	-	-	0	-	-	0	-	-
460 Sandeel	Spawning	High	210	Flee	-	0	-	0	-	-	0	-	-	0	-	-
461 Sandeel	Spawning	High	216	Flee	-	0	-	0	-	-	0	-	-	0	-	-
462 Sandeel	Spawning	High	219	Flee	-	0	-	0	-	-	0	-	-	0	-	-
463 Sandeel	Spawning	High	186	St	-	0	-	0	-	-	0	-	-	0	-	-
464 Sandeel	Spawning	High	203	St	-	0	-	0	-	-	0	-	-	0	-	-
465 Sandeel	Spawning	High	207	St	-	0	-	0	-	-	0	-	-	0	-	-
466 Sandeel	Spawning	High	210	St	-	0	-	0	-	-	0	-	-	0	-	-
467 Sandeel	Spawning	High	216	St	-	0	-	0	-	-	0	-	-	0	-	-
468 Sandeel	Spawning	High	219	St	-	0	-	0	-	-	0	-	-	0	-	-
469 Sandeel	Spawning	Low	186	Flee	-	0.010529	-	0.010484	-	-	0.003817	-	-	0.002483	-	-
470 Sandeel	Spawning	Low	203	Flee	-	1.54E-07	-	1.54E-07	-	-	1.54E-07	-	-	1.54E-07	-	-

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
471 Sandeel	Spawning	Low	207	Flee	-	1.54E-07	-									
472 Sandeel	Spawning	Low	210	Flee	-	1.54E-07	-									
473 Sandeel	Spawning	Low	216	Flee	-	6.18E-08	-									
474 Sandeel	Spawning	Low	219	Flee	-	6.18E-08	-									
475 Sandeel	Spawning	Low	186	St	-	0.027284	-	-	0.030257	-	-	0.027486	-	-	0.010451	-
476 Sandeel	Spawning	Low	203	St	-	0.000929	-	-	0.000588	-	-	0.000895	-	-	0.000375	-
477 Sandeel	Spawning	Low	207	St	-	0.000383	-	-	0.000209	-	-	0.000346	-	-	0.000144	-
478 Sandeel	Spawning	Low	210	St	-	0.000184	-	-	9.39E-05	-	-	0.000161	-	-	6.82E-05	-
479 Sandeel	Spawning	Low	216	St	-	3.13E-05	-	-	1.89E-05	-	-	3.28E-05	-	-	1.59E-05	-
480 Sandeel	Spawning	Low	219	St	-	1.30E-05	-	-	8.19E-06	-	-	1.47E-05	-	-	8.25E-06	-
481 Sole	Nursery	High	186	Flee	-	0	-	-	0	-	-	0	-	-	0	-
482 Sole	Nursery	High	203	Flee	-	0	-	-	0	-	-	0	-	-	0	-
483 Sole	Nursery	High	207	Flee	-	0	-	-	0	-	-	0	-	-	0	-
484 Sole	Nursery	High	210	Flee	-	0	-	-	0	-	-	0	-	-	0	-
485 Sole	Nursery	High	216	Flee	-	0	-	-	0	-	-	0	-	-	0	-
486 Sole	Nursery	High	219	Flee	-	0	-	-	0	-	-	0	-	-	0	-
487 Sole	Nursery	High	186	St	-	0	-	-	0	-	-	0	-	-	0	-
488 Sole	Nursery	High	203	St	-	0	-	-	0	-	-	0	-	-	0	-
489 Sole	Nursery	High	207	St	-	0	-	-	0	-	-	0	-	-	0	-
490 Sole	Nursery	High	210	St	-	0	-	-	0	-	-	0	-	-	0	-
491 Sole	Nursery	High	216	St	-	0	-	-	0	-	-	0	-	-	0	-
492 Sole	Nursery	High	219	St	-	0	-	-	0	-	-	0	-	-	0	-
493 Sole	Nursery	Low	186	Flee	-	0	-	-	0	-	-	0	-	-	0	-
494 Sole	Nursery	Low	203	Flee	-	0	-	-	0	-	-	0	-	-	0	-
495 Sole	Nursery	Low	207	Flee	-	0	-	-	0	-	-	0	-	-	0	-
496 Sole	Nursery	Low	210	Flee	-	0	-	-	0	-	-	0	-	-	0	-
497 Sole	Nursery	Low	216	Flee	-	0	-	-	0	-	-	0	-	-	0	-
498 Sole	Nursery	Low	219	Flee	-	0	-	-	0	-	-	0	-	-	0	-
499 Sole	Nursery	Low	186	St	-	0	-	-	0	-	-	0	-	-	0	-
500 Sole	Nursery	Low	203	St	-	0	-	-	0	-	-	0	-	-	0	-
501 Sole	Nursery	Low	207	St	-	0	-	-	0	-	-	0	-	-	0	-
502 Sole	Nursery	Low	210	St	-	0	-	-	0	-	-	0	-	-	0	-
503 Sole	Nursery	Low	216	St	-	0	-	-	0	-	-	0	-	-	0	-
504 Sole	Nursery	Low	219	St	-	0	-	-	0	-	-	0	-	-	0	-
505 Sole	Nursery	Undetermin	186	Flee	0	-	-	0	-	-	0	-	-	0	-	-
506 Sole	Nursery	Undetermin	203	Flee	0	-	-	0	-	-	0	-	-	0	-	-
507 Sole	Nursery	Undetermin	207	Flee	0	-	-	0	-	-	0	-	-	0	-	-
508 Sole	Nursery	Undetermin	210	Flee	0	-	-	0	-	-	0	-	-	0	-	-
509 Sole	Nursery	Undetermin	216	Flee	0	-	-	0	-	-	0	-	-	0	-	-
510 Sole	Nursery	Undetermin	219	Flee	0	-	-	0	-	-	0	-	-	0	-	-
511 Sole	Nursery	Undetermin	186	St	0	-	-	0	-	-	0	-	-	0	-	-
512 Sole	Nursery	Undetermin	203	St	0	-	-	0	-	-	0	-	-	0	-	-
513 Sole	Nursery	Undetermin	207	St	0	-	-	0	-	-	0	-	-	0	-	-
514 Sole	Nursery	Undetermin	210	St	0	-	-	0	-	-	0	-	-	0	-	-
515 Sole	Nursery	Undetermin	216	St	0	-	-	0	-	-	0	-	-	0	-	-
516 Sole	Nursery	Undetermin	219	St	0	-	-	0	-	-	0	-	-	0	-	-
517 Sole	Spawning	High	186	Flee	0	0	-	0	0	-	0	0	0	-	0	0

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
518 Sole	Spawning	High	203 Flee		0	0 -		0	0 -		0	0 -		0	0 -	
519 Sole	Spawning	High	207 Flee		0	0 -		0	0 -		0	0 -		0	0 -	
520 Sole	Spawning	High	210 Flee		0	0 -		0	0 -		0	0 -		0	0 -	
521 Sole	Spawning	High	216 Flee		0	0 -		0	0 -		0	0 -		0	0 -	
522 Sole	Spawning	High	219 Flee		0	0 -		0	0 -		0	0 -		0	0 -	
523 Sole	Spawning	High	186 St		0	0 -		0	0 -		0	0 -		0	0 -	
524 Sole	Spawning	High	203 St		0	0 -		0	0 -		0	0 -		0	0 -	
525 Sole	Spawning	High	207 St		0	0 -		0	0 -		0	0 -		0	0 -	
526 Sole	Spawning	High	210 St		0	0 -		0	0 -		0	0 -		0	0 -	
527 Sole	Spawning	High	216 St		0	0 -		0	0 -		0	0 -		0	0 -	
528 Sole	Spawning	High	219 St		0	0 -		0	0 -		0	0 -		0	0 -	
529 Sole	Spawning	Low	186 Flee		0	0.011658 -		0	0.011593 -		0	0.004221 -		0	0.002758 -	
530 Sole	Spawning	Low	203 Flee		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -	
531 Sole	Spawning	Low	207 Flee		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -	
532 Sole	Spawning	Low	210 Flee		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -		0	1.70E-07 -	
533 Sole	Spawning	Low	216 Flee		0	6.84E-08 -		0	6.84E-08 -		0	6.84E-08 -		0	6.84E-08 -	
534 Sole	Spawning	Low	219 Flee		0	6.84E-08 -		0	6.84E-08 -		0	6.84E-08 -		0	6.84E-08 -	
535 Sole	Spawning	Low	186 St		0	0.030198 -		0	0.033467 -		0	0.030393 -		0	0.011573 -	
536 Sole	Spawning	Low	203 St		0	0.001033 -		0	0.00065 -		0	0.00099 -		0	0.000418 -	
537 Sole	Spawning	Low	207 St		0	0.000426 -		0	0.000231 -		0	0.000383 -		0	0.000161 -	
538 Sole	Spawning	Low	210 St		0	0.000203 -		0	0.000104 -		0	0.000178 -		0	7.67E-05 -	
539 Sole	Spawning	Low	216 St		0	3.46E-05 -		0	2.09E-05 -		0	3.63E-05 -		0	1.81E-05 -	
540 Sole	Spawning	Low	219 St		0	1.44E-05 -		0	9.06E-06 -		0	1.63E-05 -		0	9.43E-06 -	
541 Spotted ray	Nursery	Low	186 Flee	-	0.023197 -	-	0.013399 -	-	0.005033 -	-	0.009274 -					
542 Spotted ray	Nursery	Low	203 Flee	-	2.03E-07 -											
543 Spotted ray	Nursery	Low	207 Flee	-	2.03E-07 -											
544 Spotted ray	Nursery	Low	210 Flee	-	2.03E-07 -											
545 Spotted ray	Nursery	Low	216 Flee	-	8.15E-08 -											
546 Spotted ray	Nursery	Low	219 Flee	-	8.15E-08 -											
547 Spotted ray	Nursery	Low	186 St	-	0.050234 -	-	0.03272 -	-	0.036243 -	-	0.033379 -					
548 Spotted ray	Nursery	Low	203 St	-	0.001672 -	-	0.000775 -	-	0.001181 -	-	0.000945 -					
549 Spotted ray	Nursery	Low	207 St	-	0.000567 -	-	0.000275 -	-	0.000457 -	-	0.000335 -					
550 Spotted ray	Nursery	Low	210 St	-	0.000242 -	-	0.000124 -	-	0.000213 -	-	0.000148 -					
551 Spotted ray	Nursery	Low	216 St	-	4.13E-05 -	-	2.50E-05 -	-	4.33E-05 -	-	2.79E-05 -					
552 Spotted ray	Nursery	Low	219 St	-	1.72E-05 -	-	1.08E-05 -	-	1.94E-05 -	-	1.28E-05 -					
553 Sprat	Spawning	Undetermin	186 Flee	0.015542 -	-	0.007015 -	-	0.002554 -	-	0.004706 -	-					
554 Sprat	Spawning	Undetermin	203 Flee	1.03E-07 -	-											
555 Sprat	Spawning	Undetermin	207 Flee	1.03E-07 -	-											
556 Sprat	Spawning	Undetermin	210 Flee	1.03E-07 -	-											
557 Sprat	Spawning	Undetermin	216 Flee	4.14E-08 -	-											
558 Sprat	Spawning	Undetermin	219 Flee	4.14E-08 -	-											
559 Sprat	Spawning	Undetermin	186 St	0.039762 -	-	0.021048 -	-	0.018358 -	-	0.016937 -	-					
560 Sprat	Spawning	Undetermin	203 St	0.000848 -	-	0.000393 -	-	0.000599 -	-	0.00048 -	-					
561 Sprat	Spawning	Undetermin	207 St	0.000288 -	-	0.00014 -	-	0.000232 -	-	0.00017 -	-					
562 Sprat	Spawning	Undetermin	210 St	0.000123 -	-	6.28E-05 -	-	0.000108 -	-	7.53E-05 -	-					
563 Sprat	Spawning	Undetermin	216 St	2.09E-05 -	-	1.27E-05 -	-	2.20E-05 -	-	1.42E-05 -	-					
564 Sprat	Spawning	Undetermin	219 St	8.71E-06 -	-	5.48E-06 -	-	9.85E-06 -	-	6.47E-06 -	-					

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
565 Spurdog	Nursery	High	186	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
566 Spurdog	Nursery	High	203	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
567 Spurdog	Nursery	High	207	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
568 Spurdog	Nursery	High	210	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
569 Spurdog	Nursery	High	216	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
570 Spurdog	Nursery	High	219	Flee	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
571 Spurdog	Nursery	High	186	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
572 Spurdog	Nursery	High	203	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
573 Spurdog	Nursery	High	207	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
574 Spurdog	Nursery	High	210	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
575 Spurdog	Nursery	High	216	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
576 Spurdog	Nursery	High	219	St	-	0 -	-	0 -	-	-	0 -	-	-	-	0 -	0 -
577 Thornback ray	Nursery	Low	186	Flee	-	0.010201	-	0.013761	-	-	0.005169	-	-	0.003363	-	
578 Thornback ray	Nursery	Low	203	Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	
579 Thornback ray	Nursery	Low	207	Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	
580 Thornback ray	Nursery	Low	210	Flee	-	2.09E-07	-	2.09E-07	-	-	2.09E-07	-	-	2.09E-07	-	
581 Thornback ray	Nursery	Low	216	Flee	-	8.37E-08	-	8.37E-08	-	-	8.37E-08	-	-	8.37E-08	-	
582 Thornback ray	Nursery	Low	219	Flee	-	8.37E-08	-	8.37E-08	-	-	8.37E-08	-	-	8.37E-08	-	
583 Thornback ray	Nursery	Low	186	St	-	0.022647	-	0.031976	-	-	0.037221	-	-	0.01446	-	
584 Thornback ray	Nursery	Low	203	St	-	0.001258	-	0.000796	-	-	0.001213	-	-	0.000508	-	
585 Thornback ray	Nursery	Low	207	St	-	0.000518	-	0.000282	-	-	0.000469	-	-	0.000194	-	
586 Thornback ray	Nursery	Low	210	St	-	0.000249	-	0.000127	-	-	0.000218	-	-	9.23E-05	-	
587 Thornback ray	Nursery	Low	216	St	-	4.24E-05	-	2.57E-05	-	-	4.45E-05	-	-	2.15E-05	-	
588 Thornback ray	Nursery	Low	219	St	-	1.76E-05	-	1.11E-05	-	-	1.99E-05	-	-	1.12E-05	-	
589 Tope shark	Nursery	Low	186	Flee	-	0.019624	-	0.011335	-	-	0.004258	-	-	0.007845	-	
590 Tope shark	Nursery	Low	203	Flee	-	1.72E-07	-	1.72E-07	-	-	1.72E-07	-	-	1.72E-07	-	
591 Tope shark	Nursery	Low	207	Flee	-	1.72E-07	-	1.72E-07	-	-	1.72E-07	-	-	1.72E-07	-	
592 Tope shark	Nursery	Low	210	Flee	-	1.72E-07	-	1.72E-07	-	-	1.72E-07	-	-	1.72E-07	-	
593 Tope shark	Nursery	Low	216	Flee	-	6.90E-08	-	6.90E-08	-	-	6.90E-08	-	-	6.90E-08	-	
594 Tope shark	Nursery	Low	219	Flee	-	6.90E-08	-	6.90E-08	-	-	6.90E-08	-	-	6.90E-08	-	
595 Tope shark	Nursery	Low	186	St	-	0.042496	-	0.02768	-	-	0.03066	-	-	0.028237	-	
596 Tope shark	Nursery	Low	203	St	-	0.001414	-	0.000655	-	-	0.000999	-	-	0.0008	-	
597 Tope shark	Nursery	Low	207	St	-	0.00048	-	0.000233	-	-	0.000386	-	-	0.000283	-	
598 Tope shark	Nursery	Low	210	St	-	0.000205	-	0.000105	-	-	0.00018	-	-	0.000125	-	
599 Tope shark	Nursery	Low	216	St	-	3.49E-05	-	2.11E-05	-	-	3.66E-05	-	-	2.36E-05	-	
600 Tope shark	Nursery	Low	219	St	-	1.45E-05	-	9.14E-06	-	-	1.64E-05	-	-	1.08E-05	-	
601 Whiting	Nursery	High	186	Flee	-	0.011518	-	0.015538	-	-	0.005837	-	-	0.003797	-	
602 Whiting	Nursery	High	203	Flee	-	2.36E-07	-	2.36E-07	-	-	2.36E-07	-	-	2.36E-07	-	
603 Whiting	Nursery	High	207	Flee	-	2.36E-07	-	2.36E-07	-	-	2.36E-07	-	-	2.36E-07	-	
604 Whiting	Nursery	High	210	Flee	-	2.36E-07	-	2.36E-07	-	-	2.36E-07	-	-	2.36E-07	-	
605 Whiting	Nursery	High	216	Flee	-	9.45E-08	-	9.45E-08	-	-	9.45E-08	-	-	9.45E-08	-	
606 Whiting	Nursery	High	219	Flee	-	9.45E-08	-	9.45E-08	-	-	9.45E-08	-	-	9.45E-08	-	
607 Whiting	Nursery	High	186	St	-	0.025571	-	0.036105	-	-	0.042026	-	-	0.015979	-	
608 Whiting	Nursery	High	203	St	-	0.001421	-	0.000898	-	-	0.001369	-	-	0.000573	-	
609 Whiting	Nursery	High	207	St	-	0.000585	-	0.000319	-	-	0.000529	-	-	0.00022	-	
610 Whiting	Nursery	High	210	St	-	0.000281	-	0.000144	-	-	0.000246	-	-	0.000104	-	
611 Whiting	Nursery	High	216	St	-	4.79E-05	-	2.90E-05	-	-	5.02E-05	-	-	2.43E-05	-	

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
612 Whiting	Nursery	High	219 St	-	1.99E-05	-	-	1.25E-05	-	-	2.25E-05	-	-	1.26E-05	-	
613 Whiting	Nursery	Low	186 Flee	-	0.017122	-	-	0.000351	-	-	0	-	-	0.004963	-	
614 Whiting	Nursery	Low	203 Flee	-	0	-	-	0	-	-	0	-	-	0	-	
615 Whiting	Nursery	Low	207 Flee	-	0	-	-	0	-	-	0	-	-	0	-	
616 Whiting	Nursery	Low	210 Flee	-	0	-	-	0	-	-	0	-	-	0	-	
617 Whiting	Nursery	Low	216 Flee	-	0	-	-	0	-	-	0	-	-	0	-	
618 Whiting	Nursery	Low	219 Flee	-	0	-	-	0	-	-	0	-	-	0	-	
619 Whiting	Nursery	Low	186 St	-	0.046581	-	-	0.008557	-	-	0	-	-	0.016213	-	
620 Whiting	Nursery	Low	203 St	-	0.00037	-	-	0	-	-	0	-	-	0.000373	-	
621 Whiting	Nursery	Low	207 St	-	5.15E-05	-	-	0	-	-	0	-	-	0.00012	-	
622 Whiting	Nursery	Low	210 St	-	0	-	-	0	-	-	0	-	-	4.83E-05	-	
623 Whiting	Nursery	Low	216 St	-	0	-	-	0	-	-	0	-	-	5.79E-06	-	
624 Whiting	Nursery	Low	219 St	-	0	-	-	0	-	-	0	-	-	1.55E-06	-	
625 Whiting	Nursery	Undetermin	186 Flee	0	-	0	0	0	0.002052	-	0	0	0	0	0	
626 Whiting	Nursery	Undetermin	203 Flee	0	-	0	0	0	0	0	0	0	0	0	0	
627 Whiting	Nursery	Undetermin	207 Flee	0	-	0	0	0	0	0	0	0	0	0	0	
628 Whiting	Nursery	Undetermin	210 Flee	0	-	0	0	0	0	0	0	0	0	0	0	
629 Whiting	Nursery	Undetermin	216 Flee	0	-	0	0	0	0	0	0	0	0	0	0	
630 Whiting	Nursery	Undetermin	219 Flee	0	-	0	0	0	0	0	0	0	0	0	0	
631 Whiting	Nursery	Undetermin	186 St	0	-	0	2.05E-05	-	0	0.020554	-	0.000772	0.000835	-	0	
632 Whiting	Nursery	Undetermin	203 St	0	-	0	0	0	0	1.06E-06	-	0	0	0	0	
633 Whiting	Nursery	Undetermin	207 St	0	-	0	0	0	0	0	0	0	0	0	0	
634 Whiting	Nursery	Undetermin	210 St	0	-	0	0	0	0	0	0	0	0	0	0	
635 Whiting	Nursery	Undetermin	216 St	0	-	0	0	0	0	0	0	0	0	0	0	
636 Whiting	Nursery	Undetermin	219 St	0	-	0	0	0	0	0	0	0	0	0	0	
637 Whiting	Spawning	High	186 Flee	0	-	0	-	0	-	0.020945	-	0	0	-	-	
638 Whiting	Spawning	High	203 Flee	0	-	0	-	0	-	0	-	0	0	-	-	
639 Whiting	Spawning	High	207 Flee	0	-	0	-	0	-	0	-	0	0	-	-	
640 Whiting	Spawning	High	210 Flee	0	-	0	-	0	-	0	-	0	0	-	-	
641 Whiting	Spawning	High	216 Flee	0	-	0	-	0	-	0	-	0	0	-	-	
642 Whiting	Spawning	High	219 Flee	0	-	0	-	0	-	0	-	0	0	-	-	
643 Whiting	Spawning	High	186 St	0	-	0	-	0	-	0.231402	-	-	0.001351	-	-	
644 Whiting	Spawning	High	203 St	0	-	0	-	0	-	0	-	0	0	-	-	
645 Whiting	Spawning	High	207 St	0	-	0	-	0	-	0	-	0	0	-	-	
646 Whiting	Spawning	High	210 St	0	-	0	-	0	-	0	-	0	0	-	-	
647 Whiting	Spawning	High	216 St	0	-	0	-	0	-	0	-	0	0	-	-	
648 Whiting	Spawning	High	219 St	0	-	0	-	0	-	0	-	0	0	-	-	
649 Whiting	Spawning	Low	186 Flee	0	0.008576	-	-	0	0.00854	-	0.002387	0.003109	-	0	0.002023	-
650 Whiting	Spawning	Low	203 Flee	0	1.26E-07	-	-	0	1.26E-07	-	0	1.26E-07	-	0	1.26E-07	-
651 Whiting	Spawning	Low	207 Flee	0	1.26E-07	-	-	0	1.26E-07	-	0	1.26E-07	-	0	1.26E-07	-
652 Whiting	Spawning	Low	210 Flee	0	1.26E-07	-	-	0	1.26E-07	-	0	1.26E-07	-	0	1.26E-07	-
653 Whiting	Spawning	Low	216 Flee	0	5.03E-08	-	-	0	5.03E-08	-	0	5.03E-08	-	0	5.03E-08	-
654 Whiting	Spawning	Low	219 Flee	0	5.03E-08	-	-	0	5.03E-08	-	0	5.03E-08	-	0	5.03E-08	-
655 Whiting	Spawning	Low	186 St	0.000101	0.022224	-	-	0.000764	0.024645	-	0.007839	0.022389	-	0.001447	0.008513	-
656 Whiting	Spawning	Low	203 St	0	0.000757	-	-	0	0.000479	-	0.000667	0.000729	-	0	0.000305	-
657 Whiting	Spawning	Low	207 St	0	0.000312	-	-	0	0.00017	-	0.00013	0.000282	-	0	0.000117	-
658 Whiting	Spawning	Low	210 St	0	0.00015	-	-	0	7.65E-05	-	4.60E-06	0.000131	-	0	5.55E-05	-

Species	Habitat_type	Intensity	Pile_level	model_type	Coull_SE	Ellis_SE	IMA_SE	Coull_NE	Ellis_NE	IMA_NE	Coull_NW	Ellis_NW	IMA_NW	Coull_SW	Ellis_SW	IMA_SW
659 Whiting	Spawning	Low	216 St		0 2.55E-05 -			0 1.54E-05 -			0 2.67E-05 -			0 1.29E-05 -		
660 Whiting	Spawning	Low	219 St		0 1.06E-05 -			0 6.67E-06 -			0 1.20E-05 -			0 6.72E-06 -		
661 Whiting	Spawning	Undetermin	186 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
662 Whiting	Spawning	Undetermin	203 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
663 Whiting	Spawning	Undetermin	207 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
664 Whiting	Spawning	Undetermin	210 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
665 Whiting	Spawning	Undetermin	216 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
666 Whiting	Spawning	Undetermin	219 Flee	-	-		0 -	-		0 -	-		0 -	-	-	0
667 Whiting	Spawning	Undetermin	186 St	-	-		0 -	-		0 -	-		0.000191 -	-	-	0
668 Whiting	Spawning	Undetermin	203 St	-	-		0 -	-		0 -	-		0 -	-	-	0
669 Whiting	Spawning	Undetermin	207 St	-	-		0 -	-		0 -	-		0 -	-	-	0
670 Whiting	Spawning	Undetermin	210 St	-	-		0 -	-		0 -	-		0 -	-	-	0
671 Whiting	Spawning	Undetermin	216 St	-	-		0 -	-		0 -	-		0 -	-	-	0
672 Whiting	Spawning	Undetermin	219 St	-	-		0 -	-		0 -	-		0 -	-	-	0

Table 2 Noise modelling areas of overlap calculations for the Liffey

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
1	Anglerfish	Nursery	High	186	SELcum Fl	NA	0	NA
2	Anglerfish	Nursery	High	203	SELcum Fl	NA	0	NA
3	Anglerfish	Nursery	High	207	SELcum Fl	NA	0	NA
4	Anglerfish	Nursery	High	210	SELcum Fl	NA	0	NA
5	Anglerfish	Nursery	High	216	SELcum Fl	NA	0	NA
6	Anglerfish	Nursery	High	219	SELcum Fl	NA	0	NA
7	Anglerfish	Nursery	High	186	SELcum St	NA	0	NA
8	Anglerfish	Nursery	High	203	SELcum St	NA	0	NA
9	Anglerfish	Nursery	High	207	SELcum St	NA	0	NA
10	Anglerfish	Nursery	High	210	SELcum St	NA	0	NA
11	Anglerfish	Nursery	High	216	SELcum St	NA	0	NA
12	Anglerfish	Nursery	High	219	SELcum St	NA	0	NA
13	Anglerfish	Nursery	High	207	SPLpeak	NA	0	NA
14	Anglerfish	Nursery	High	213	SPLpeak	NA	0	NA
15	Anglerfish	Nursery	Low	186	SELcum Fl	NA	6.04E-05	NA
16	Anglerfish	Nursery	Low	203	SELcum Fl	NA	3.10E-07	NA
17	Anglerfish	Nursery	Low	207	SELcum Fl	NA	6.12E-08	NA
18	Anglerfish	Nursery	Low	210	SELcum Fl	NA	2.64E-08	NA
19	Anglerfish	Nursery	Low	216	SELcum Fl	NA	1.60E-08	NA
20	Anglerfish	Nursery	Low	219	SELcum Fl	NA	1.60E-08	NA
21	Anglerfish	Nursery	Low	186	SELcum St	NA	0.000492	NA
22	Anglerfish	Nursery	Low	203	SELcum St	NA	4.77E-05	NA
23	Anglerfish	Nursery	Low	207	SELcum St	NA	2.56E-05	NA
24	Anglerfish	Nursery	Low	210	SELcum St	NA	1.57E-05	NA
25	Anglerfish	Nursery	Low	216	SELcum St	NA	7.14E-06	NA
26	Anglerfish	Nursery	Low	219	SELcum St	NA	4.37E-06	NA
27	Anglerfish	Nursery	Low	207	SPLpeak	NA	4.01E-08	NA
28	Anglerfish	Nursery	Low	213	SPLpeak	NA	8.50E-09	NA
29	Cod	Nursery	High	186	SELcum Fl	NA	0.000192	NA
30	Cod	Nursery	High	203	SELcum Fl	NA	9.83E-07	NA
31	Cod	Nursery	High	207	SELcum Fl	NA	1.94E-07	NA
32	Cod	Nursery	High	210	SELcum Fl	NA	8.39E-08	NA
33	Cod	Nursery	High	216	SELcum Fl	NA	5.08E-08	NA
34	Cod	Nursery	High	219	SELcum Fl	NA	5.08E-08	NA
35	Cod	Nursery	High	186	SELcum St	NA	0.001563	NA
36	Cod	Nursery	High	203	SELcum St	NA	0.000152	NA
37	Cod	Nursery	High	207	SELcum St	NA	8.11E-05	NA
38	Cod	Nursery	High	210	SELcum St	NA	5.00E-05	NA
39	Cod	Nursery	High	216	SELcum St	NA	2.27E-05	NA
40	Cod	Nursery	High	219	SELcum St	NA	1.39E-05	NA
41	Cod	Nursery	High	207	SPLpeak	NA	1.27E-07	NA
42	Cod	Nursery	High	213	SPLpeak	NA	2.70E-08	NA
43	Cod	Nursery	Low	186	SELcum Fl	NA	0	NA
44	Cod	Nursery	Low	203	SELcum Fl	NA	0	NA
45	Cod	Nursery	Low	207	SELcum Fl	NA	0	NA
46	Cod	Nursery	Low	210	SELcum Fl	NA	0	NA
47	Cod	Nursery	Low	216	SELcum Fl	NA	0	NA
48	Cod	Nursery	Low	219	SELcum Fl	NA	0	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
49	Cod	Nursery	Low	186	SELcum St	NA	0	NA
50	Cod	Nursery	Low	203	SELcum St	NA	0	NA
51	Cod	Nursery	Low	207	SELcum St	NA	0	NA
52	Cod	Nursery	Low	210	SELcum St	NA	0	NA
53	Cod	Nursery	Low	216	SELcum St	NA	0	NA
54	Cod	Nursery	Low	219	SELcum St	NA	0	NA
55	Cod	Nursery	Low	207	SPLpeak	NA	0	NA
56	Cod	Nursery	Low	213	SPLpeak	NA	0	NA
57	Cod	Nursery	Undeterm	186	SELcum Fle	0	NA	7.13E-05
58	Cod	Nursery	Undeterm	203	SELcum Fle	0	NA	3.75E-07
59	Cod	Nursery	Undeterm	207	SELcum Fle	0	NA	7.41E-08
60	Cod	Nursery	Undeterm	210	SELcum Fle	0	NA	3.20E-08
61	Cod	Nursery	Undeterm	216	SELcum Fle	0	NA	1.94E-08
62	Cod	Nursery	Undeterm	219	SELcum Fle	0	NA	1.94E-08
63	Cod	Nursery	Undeterm	186	SELcum St	0.001114	NA	0.000592
64	Cod	Nursery	Undeterm	203	SELcum St	0	NA	5.44E-05
65	Cod	Nursery	Undeterm	207	SELcum St	0	NA	2.96E-05
66	Cod	Nursery	Undeterm	210	SELcum St	0	NA	1.88E-05
67	Cod	Nursery	Undeterm	216	SELcum St	0	NA	8.61E-06
68	Cod	Nursery	Undeterm	219	SELcum St	0	NA	5.29E-06
69	Cod	Nursery	Undeterm	207	SPLpeak	0	NA	4.86E-08
70	Cod	Nursery	Undeterm	213	SPLpeak	0	NA	1.03E-08
71	Cod	Spawning	High	186	SELcum Fle	0	0	NA
72	Cod	Spawning	High	203	SELcum Fle	0	0	NA
73	Cod	Spawning	High	207	SELcum Fle	0	0	NA
74	Cod	Spawning	High	210	SELcum Fle	0	0	NA
75	Cod	Spawning	High	216	SELcum Fle	0	0	NA
76	Cod	Spawning	High	219	SELcum Fle	0	0	NA
77	Cod	Spawning	High	186	SELcum St	0	0	NA
78	Cod	Spawning	High	203	SELcum St	0	0	NA
79	Cod	Spawning	High	207	SELcum St	0	0	NA
80	Cod	Spawning	High	210	SELcum St	0	0	NA
81	Cod	Spawning	High	216	SELcum St	0	0	NA
82	Cod	Spawning	High	219	SELcum St	0	0	NA
83	Cod	Spawning	High	207	SPLpeak	0	0	NA
84	Cod	Spawning	High	213	SPLpeak	0	0	NA
85	Cod	Spawning	Low	186	SELcum Fle	0	9.56E-05	NA
86	Cod	Spawning	Low	203	SELcum Fle	0	4.91E-07	NA
87	Cod	Spawning	Low	207	SELcum Fle	0	9.69E-08	NA
88	Cod	Spawning	Low	210	SELcum Fle	0	4.19E-08	NA
89	Cod	Spawning	Low	216	SELcum Fle	0	2.54E-08	NA
90	Cod	Spawning	Low	219	SELcum Fle	0	2.54E-08	NA
91	Cod	Spawning	Low	186	SELcum St	0.000409	0.00078	NA
92	Cod	Spawning	Low	203	SELcum St	0	7.56E-05	NA
93	Cod	Spawning	Low	207	SELcum St	0	4.05E-05	NA
94	Cod	Spawning	Low	210	SELcum St	0	2.49E-05	NA
95	Cod	Spawning	Low	216	SELcum St	0	1.13E-05	NA
96	Cod	Spawning	Low	219	SELcum St	0	6.92E-06	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
97	Cod	Spawning	Low	207	SPLpeak	0	6.35E-08	NA
98	Cod	Spawning	Low	213	SPLpeak	0	1.35E-08	NA
99	Cod	Spawning	Undeterm	186	SELcum Fle	0	NA	0.000236
100	Cod	Spawning	Undeterm	203	SELcum Fle	0	NA	1.22E-06
101	Cod	Spawning	Undeterm	207	SELcum Fle	0	NA	2.41E-07
102	Cod	Spawning	Undeterm	210	SELcum Fle	0	NA	1.04E-07
103	Cod	Spawning	Undeterm	216	SELcum Fle	0	NA	6.31E-08
104	Cod	Spawning	Undeterm	219	SELcum Fle	0	NA	6.31E-08
105	Cod	Spawning	Undeterm	186	SELcum St	0	NA	0.001936
106	Cod	Spawning	Undeterm	203	SELcum St	0	NA	0.000184
107	Cod	Spawning	Undeterm	207	SELcum St	0	NA	9.94E-05
108	Cod	Spawning	Undeterm	210	SELcum St	0	NA	6.20E-05
109	Cod	Spawning	Undeterm	216	SELcum St	0	NA	2.81E-05
110	Cod	Spawning	Undeterm	219	SELcum St	0	NA	1.72E-05
111	Cod	Spawning	Undeterm	207	SPLpeak	0	NA	1.58E-07
112	Cod	Spawning	Undeterm	213	SPLpeak	0	NA	3.35E-08
113	European	Nursery	Low	186	SELcum Fle	NA		0 NA
114	European	Nursery	Low	203	SELcum Fle	NA		0 NA
115	European	Nursery	Low	207	SELcum Fle	NA		0 NA
116	European	Nursery	Low	210	SELcum Fle	NA		0 NA
117	European	Nursery	Low	216	SELcum Fle	NA		0 NA
118	European	Nursery	Low	219	SELcum Fle	NA		0 NA
119	European	Nursery	Low	186	SELcum St	NA		0 NA
120	European	Nursery	Low	203	SELcum St	NA		0 NA
121	European	Nursery	Low	207	SELcum St	NA		0 NA
122	European	Nursery	Low	210	SELcum St	NA		0 NA
123	European	Nursery	Low	216	SELcum St	NA		0 NA
124	European	Nursery	Low	219	SELcum St	NA		0 NA
125	European	Nursery	Low	207	SPLpeak	NA		0 NA
126	European	Nursery	Low	213	SPLpeak	NA		0 NA
127	Haddock	Nursery	Undeterm	186	SELcum Fle	0.000298	NA	0.000326
128	Haddock	Nursery	Undeterm	203	SELcum Fle	1.27E-06	NA	1.67E-06
129	Haddock	Nursery	Undeterm	207	SELcum Fle	2.32E-07	NA	3.30E-07
130	Haddock	Nursery	Undeterm	210	SELcum Fle	1.10E-07	NA	1.43E-07
131	Haddock	Nursery	Undeterm	216	SELcum Fle	5.82E-08	NA	8.64E-08
132	Haddock	Nursery	Undeterm	219	SELcum Fle	5.82E-08	NA	8.64E-08
133	Haddock	Nursery	Undeterm	186	SELcum St	0.002456	NA	0.002659
134	Haddock	Nursery	Undeterm	203	SELcum St	0.000235	NA	0.000258
135	Haddock	Nursery	Undeterm	207	SELcum St	0.000124	NA	0.000138
136	Haddock	Nursery	Undeterm	210	SELcum St	7.56E-05	NA	8.50E-05
137	Haddock	Nursery	Undeterm	216	SELcum St	3.30E-05	NA	3.86E-05
138	Haddock	Nursery	Undeterm	219	SELcum St	1.98E-05	NA	2.36E-05
139	Haddock	Nursery	Undeterm	207	SPLpeak	1.54E-07	NA	2.17E-07
140	Haddock	Nursery	Undeterm	213	SPLpeak	4.17E-08	NA	4.59E-08
141	Haddock	Spawning	Undeterm	186	SELcum Fle	NA	NA	0
142	Haddock	Spawning	Undeterm	203	SELcum Fle	NA	NA	0
143	Haddock	Spawning	Undeterm	207	SELcum Fle	NA	NA	0
144	Haddock	Spawning	Undeterm	210	SELcum Fle	NA	NA	0

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
145	Haddock	Spawning	Undeterm	216	SELcum Fl	NA	NA	0
146	Haddock	Spawning	Undeterm	219	SELcum Fl	NA	NA	0
147	Haddock	Spawning	Undeterm	186	SELcum St	NA	NA	0
148	Haddock	Spawning	Undeterm	203	SELcum St	NA	NA	0
149	Haddock	Spawning	Undeterm	207	SELcum St	NA	NA	0
150	Haddock	Spawning	Undeterm	210	SELcum St	NA	NA	0
151	Haddock	Spawning	Undeterm	216	SELcum St	NA	NA	0
152	Haddock	Spawning	Undeterm	219	SELcum St	NA	NA	0
153	Haddock	Spawning	Undeterm	207	SPLpeak	NA	NA	0
154	Haddock	Spawning	Undeterm	213	SPLpeak	NA	NA	0
155	Hake	Nursery	Undeterm	186	SELcum Fl	NA	NA	0
156	Hake	Nursery	Undeterm	203	SELcum Fl	NA	NA	0
157	Hake	Nursery	Undeterm	207	SELcum Fl	NA	NA	0
158	Hake	Nursery	Undeterm	210	SELcum Fl	NA	NA	0
159	Hake	Nursery	Undeterm	216	SELcum Fl	NA	NA	0
160	Hake	Nursery	Undeterm	219	SELcum Fl	NA	NA	0
161	Hake	Nursery	Undeterm	186	SELcum St	NA	NA	0
162	Hake	Nursery	Undeterm	203	SELcum St	NA	NA	0
163	Hake	Nursery	Undeterm	207	SELcum St	NA	NA	0
164	Hake	Nursery	Undeterm	210	SELcum St	NA	NA	0
165	Hake	Nursery	Undeterm	216	SELcum St	NA	NA	0
166	Hake	Nursery	Undeterm	219	SELcum St	NA	NA	0
167	Hake	Nursery	Undeterm	207	SPLpeak	NA	NA	0
168	Hake	Nursery	Undeterm	213	SPLpeak	NA	NA	0
169	Hake	Spawning	Low	186	SELcum Fl	NA	0	NA
170	Hake	Spawning	Low	203	SELcum Fl	NA	0	NA
171	Hake	Spawning	Low	207	SELcum Fl	NA	0	NA
172	Hake	Spawning	Low	210	SELcum Fl	NA	0	NA
173	Hake	Spawning	Low	216	SELcum Fl	NA	0	NA
174	Hake	Spawning	Low	219	SELcum Fl	NA	0	NA
175	Hake	Spawning	Low	186	SELcum St	NA	0	NA
176	Hake	Spawning	Low	203	SELcum St	NA	0	NA
177	Hake	Spawning	Low	207	SELcum St	NA	0	NA
178	Hake	Spawning	Low	210	SELcum St	NA	0	NA
179	Hake	Spawning	Low	216	SELcum St	NA	0	NA
180	Hake	Spawning	Low	219	SELcum St	NA	0	NA
181	Hake	Spawning	Low	207	SPLpeak	NA	0	NA
182	Hake	Spawning	Low	213	SPLpeak	NA	0	NA
183	Hake	Spawning	Undeterm	186	SELcum Fl	NA	NA	0
184	Hake	Spawning	Undeterm	203	SELcum Fl	NA	NA	0
185	Hake	Spawning	Undeterm	207	SELcum Fl	NA	NA	0
186	Hake	Spawning	Undeterm	210	SELcum Fl	NA	NA	0
187	Hake	Spawning	Undeterm	216	SELcum Fl	NA	NA	0
188	Hake	Spawning	Undeterm	219	SELcum Fl	NA	NA	0
189	Hake	Spawning	Undeterm	186	SELcum St	NA	NA	0
190	Hake	Spawning	Undeterm	203	SELcum St	NA	NA	0
191	Hake	Spawning	Undeterm	207	SELcum St	NA	NA	0
192	Hake	Spawning	Undeterm	210	SELcum St	NA	NA	0

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
193	Hake	Spawning	Undeterm	216	SELcum St	NA	NA	0
194	Hake	Spawning	Undeterm	219	SELcum St	NA	NA	0
195	Hake	Spawning	Undeterm	207	SPLpeak	NA	NA	0
196	Hake	Spawning	Undeterm	213	SPLpeak	NA	NA	0
197	Herring	Nursery	High	186	SELcum Fle	NA	0	NA
198	Herring	Nursery	High	203	SELcum Fle	NA	0	NA
199	Herring	Nursery	High	207	SELcum Fle	NA	0	NA
200	Herring	Nursery	High	210	SELcum Fle	NA	0	NA
201	Herring	Nursery	High	216	SELcum Fle	NA	0	NA
202	Herring	Nursery	High	219	SELcum Fle	NA	0	NA
203	Herring	Nursery	High	186	SELcum St	NA	0	NA
204	Herring	Nursery	High	203	SELcum St	NA	0	NA
205	Herring	Nursery	High	207	SELcum St	NA	0	NA
206	Herring	Nursery	High	210	SELcum St	NA	0	NA
207	Herring	Nursery	High	216	SELcum St	NA	0	NA
208	Herring	Nursery	High	219	SELcum St	NA	0	NA
209	Herring	Nursery	High	207	SPLpeak	NA	0	NA
210	Herring	Nursery	High	213	SPLpeak	NA	0	NA
211	Herring	Nursery	Low	186	SELcum Fle	NA	0	NA
212	Herring	Nursery	Low	203	SELcum Fle	NA	0	NA
213	Herring	Nursery	Low	207	SELcum Fle	NA	0	NA
214	Herring	Nursery	Low	210	SELcum Fle	NA	0	NA
215	Herring	Nursery	Low	216	SELcum Fle	NA	0	NA
216	Herring	Nursery	Low	219	SELcum Fle	NA	0	NA
217	Herring	Nursery	Low	186	SELcum St	NA	0	NA
218	Herring	Nursery	Low	203	SELcum St	NA	0	NA
219	Herring	Nursery	Low	207	SELcum St	NA	0	NA
220	Herring	Nursery	Low	210	SELcum St	NA	0	NA
221	Herring	Nursery	Low	216	SELcum St	NA	0	NA
222	Herring	Nursery	Low	219	SELcum St	NA	0	NA
223	Herring	Nursery	Low	207	SPLpeak	NA	0	NA
224	Herring	Nursery	Low	213	SPLpeak	NA	0	NA
225	Herring	Nursery	Undeterm	186	SELcum Fle	0	NA	0
226	Herring	Nursery	Undeterm	203	SELcum Fle	0	NA	0
227	Herring	Nursery	Undeterm	207	SELcum Fle	0	NA	0
228	Herring	Nursery	Undeterm	210	SELcum Fle	0	NA	0
229	Herring	Nursery	Undeterm	216	SELcum Fle	0	NA	0
230	Herring	Nursery	Undeterm	219	SELcum Fle	0	NA	0
231	Herring	Nursery	Undeterm	186	SELcum St	0	NA	0
232	Herring	Nursery	Undeterm	203	SELcum St	0	NA	0
233	Herring	Nursery	Undeterm	207	SELcum St	0	NA	0
234	Herring	Nursery	Undeterm	210	SELcum St	0	NA	0
235	Herring	Nursery	Undeterm	216	SELcum St	0	NA	0
236	Herring	Nursery	Undeterm	219	SELcum St	0	NA	0
237	Herring	Nursery	Undeterm	207	SPLpeak	0	NA	0
238	Herring	Nursery	Undeterm	213	SPLpeak	0	NA	0
239	Herring	Spawning	High	186	SELcum Fle	0	NA	NA
240	Herring	Spawning	High	203	SELcum Fle	0	NA	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
241	Herring	Spawning	High	207	SELcum Fle	0	NA	NA
242	Herring	Spawning	High	210	SELcum Fle	0	NA	NA
243	Herring	Spawning	High	216	SELcum Fle	0	NA	NA
244	Herring	Spawning	High	219	SELcum Fle	0	NA	NA
245	Herring	Spawning	High	186	SELcum St	0	NA	NA
246	Herring	Spawning	High	203	SELcum St	0	NA	NA
247	Herring	Spawning	High	207	SELcum St	0	NA	NA
248	Herring	Spawning	High	210	SELcum St	0	NA	NA
249	Herring	Spawning	High	216	SELcum St	0	NA	NA
250	Herring	Spawning	High	219	SELcum St	0	NA	NA
251	Herring	Spawning	High	207	SPLpeak	0	NA	NA
252	Herring	Spawning	High	213	SPLpeak	0	NA	NA
253	Herring	Spawning	Low	186	SELcum Fle	0	NA	NA
254	Herring	Spawning	Low	203	SELcum Fle	0	NA	NA
255	Herring	Spawning	Low	207	SELcum Fle	0	NA	NA
256	Herring	Spawning	Low	210	SELcum Fle	0	NA	NA
257	Herring	Spawning	Low	216	SELcum Fle	0	NA	NA
258	Herring	Spawning	Low	219	SELcum Fle	0	NA	NA
259	Herring	Spawning	Low	186	SELcum St	0	NA	NA
260	Herring	Spawning	Low	203	SELcum St	0	NA	NA
261	Herring	Spawning	Low	207	SELcum St	0	NA	NA
262	Herring	Spawning	Low	210	SELcum St	0	NA	NA
263	Herring	Spawning	Low	216	SELcum St	0	NA	NA
264	Herring	Spawning	Low	219	SELcum St	0	NA	NA
265	Herring	Spawning	Low	207	SPLpeak	0	NA	NA
266	Herring	Spawning	Low	213	SPLpeak	0	NA	NA
267	Herring	Spawning	Undeterm	186	SELcum Fle	0	NA	0
268	Herring	Spawning	Undeterm	203	SELcum Fle	0	NA	0
269	Herring	Spawning	Undeterm	207	SELcum Fle	0	NA	0
270	Herring	Spawning	Undeterm	210	SELcum Fle	0	NA	0
271	Herring	Spawning	Undeterm	216	SELcum Fle	0	NA	0
272	Herring	Spawning	Undeterm	219	SELcum Fle	0	NA	0
273	Herring	Spawning	Undeterm	186	SELcum St	0	NA	0
274	Herring	Spawning	Undeterm	203	SELcum St	0	NA	0
275	Herring	Spawning	Undeterm	207	SELcum St	0	NA	0
276	Herring	Spawning	Undeterm	210	SELcum St	0	NA	0
277	Herring	Spawning	Undeterm	216	SELcum St	0	NA	0
278	Herring	Spawning	Undeterm	219	SELcum St	0	NA	0
279	Herring	Spawning	Undeterm	207	SPLpeak	0	NA	0
280	Herring	Spawning	Undeterm	213	SPLpeak	0	NA	0
281	HorseMac	Nursery	Undeterm	186	SELcum Fle	NA	NA	5.87E-05
282	HorseMac	Nursery	Undeterm	203	SELcum Fle	NA	NA	3.04E-07
283	HorseMac	Nursery	Undeterm	207	SELcum Fle	NA	NA	6.00E-08
284	HorseMac	Nursery	Undeterm	210	SELcum Fle	NA	NA	2.60E-08
285	HorseMac	Nursery	Undeterm	216	SELcum Fle	NA	NA	1.57E-08
286	HorseMac	Nursery	Undeterm	219	SELcum Fle	NA	NA	1.57E-08
287	HorseMac	Nursery	Undeterm	186	SELcum St	NA	NA	0.000482
288	HorseMac	Nursery	Undeterm	203	SELcum St	NA	NA	4.57E-05

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
289	HorseMac	Nursery	Undeterm	207	SELcum St	NA	NA	2.47E-05
290	HorseMac	Nursery	Undeterm	210	SELcum St	NA	NA	1.54E-05
291	HorseMac	Nursery	Undeterm	216	SELcum St	NA	NA	6.98E-06
292	HorseMac	Nursery	Undeterm	219	SELcum St	NA	NA	4.28E-06
293	HorseMac	Nursery	Undeterm	207	SPLpeak	NA	NA	3.93E-08
294	HorseMac	Nursery	Undeterm	213	SPLpeak	NA	NA	8.34E-09
295	HorseMac	Spawning	Low	186	SELcum Fl	NA	0	NA
296	HorseMac	Spawning	Low	203	SELcum Fl	NA	0	NA
297	HorseMac	Spawning	Low	207	SELcum Fl	NA	0	NA
298	HorseMac	Spawning	Low	210	SELcum Fl	NA	0	NA
299	HorseMac	Spawning	Low	216	SELcum Fl	NA	0	NA
300	HorseMac	Spawning	Low	219	SELcum Fl	NA	0	NA
301	HorseMac	Spawning	Low	186	SELcum St	NA	0	NA
302	HorseMac	Spawning	Low	203	SELcum St	NA	0	NA
303	HorseMac	Spawning	Low	207	SELcum St	NA	0	NA
304	HorseMac	Spawning	Low	210	SELcum St	NA	0	NA
305	HorseMac	Spawning	Low	216	SELcum St	NA	0	NA
306	HorseMac	Spawning	Low	219	SELcum St	NA	0	NA
307	HorseMac	Spawning	Low	207	SPLpeak	NA	0	NA
308	HorseMac	Spawning	Low	213	SPLpeak	NA	0	NA
309	HorseMac	Spawning	Undeterm	186	SELcum Fl	NA	NA	0
310	HorseMac	Spawning	Undeterm	203	SELcum Fl	NA	NA	0
311	HorseMac	Spawning	Undeterm	207	SELcum Fl	NA	NA	0
312	HorseMac	Spawning	Undeterm	210	SELcum Fl	NA	NA	0
313	HorseMac	Spawning	Undeterm	216	SELcum Fl	NA	NA	0
314	HorseMac	Spawning	Undeterm	219	SELcum Fl	NA	NA	0
315	HorseMac	Spawning	Undeterm	186	SELcum St	NA	NA	0
316	HorseMac	Spawning	Undeterm	203	SELcum St	NA	NA	0
317	HorseMac	Spawning	Undeterm	207	SELcum St	NA	NA	0
318	HorseMac	Spawning	Undeterm	210	SELcum St	NA	NA	0
319	HorseMac	Spawning	Undeterm	216	SELcum St	NA	NA	0
320	HorseMac	Spawning	Undeterm	219	SELcum St	NA	NA	0
321	HorseMac	Spawning	Undeterm	207	SPLpeak	NA	NA	0
322	HorseMac	Spawning	Undeterm	213	SPLpeak	NA	NA	0
323	Lemon Sol	Nursery	Undeterm	186	SELcum Fl	0.00015	NA	NA
324	Lemon Sol	Nursery	Undeterm	203	SELcum Fl	6.39E-07	NA	NA
325	Lemon Sol	Nursery	Undeterm	207	SELcum Fl	1.17E-07	NA	NA
326	Lemon Sol	Nursery	Undeterm	210	SELcum Fl	5.56E-08	NA	NA
327	Lemon Sol	Nursery	Undeterm	216	SELcum Fl	2.93E-08	NA	NA
328	Lemon Sol	Nursery	Undeterm	219	SELcum Fl	2.93E-08	NA	NA
329	Lemon Sol	Nursery	Undeterm	186	SELcum St	0.001237	NA	NA
330	Lemon Sol	Nursery	Undeterm	203	SELcum St	0.000118	NA	NA
331	Lemon Sol	Nursery	Undeterm	207	SELcum St	6.26E-05	NA	NA
332	Lemon Sol	Nursery	Undeterm	210	SELcum St	3.81E-05	NA	NA
333	Lemon Sol	Nursery	Undeterm	216	SELcum St	1.66E-05	NA	NA
334	Lemon Sol	Nursery	Undeterm	219	SELcum St	9.98E-06	NA	NA
335	Lemon Sol	Nursery	Undeterm	207	SPLpeak	7.78E-08	NA	NA
336	Lemon Sol	Nursery	Undeterm	213	SPLpeak	2.10E-08	NA	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
337	Lemon Sol	Spawning	Undeterm	186	SELcum Fl	0.00015	NA	NA
338	Lemon Sol	Spawning	Undeterm	203	SELcum Fl	6.38E-07	NA	NA
339	Lemon Sol	Spawning	Undeterm	207	SELcum Fl	1.17E-07	NA	NA
340	Lemon Sol	Spawning	Undeterm	210	SELcum Fl	5.56E-08	NA	NA
341	Lemon Sol	Spawning	Undeterm	216	SELcum Fl	2.93E-08	NA	NA
342	Lemon Sol	Spawning	Undeterm	219	SELcum Fl	2.93E-08	NA	NA
343	Lemon Sol	Spawning	Undeterm	186	SELcum St	0.001237	NA	NA
344	Lemon Sol	Spawning	Undeterm	203	SELcum St	0.000118	NA	NA
345	Lemon Sol	Spawning	Undeterm	207	SELcum St	6.26E-05	NA	NA
346	Lemon Sol	Spawning	Undeterm	210	SELcum St	3.81E-05	NA	NA
347	Lemon Sol	Spawning	Undeterm	216	SELcum St	1.66E-05	NA	NA
348	Lemon Sol	Spawning	Undeterm	219	SELcum St	9.97E-06	NA	NA
349	Lemon Sol	Spawning	Undeterm	207	SPLpeak	7.78E-08	NA	NA
350	Lemon Sol	Spawning	Undeterm	213	SPLpeak	2.10E-08	NA	NA
351	Ling	Nursery	Low	186	SELcum Fl	NA	0	NA
352	Ling	Nursery	Low	203	SELcum Fl	NA	0	NA
353	Ling	Nursery	Low	207	SELcum Fl	NA	0	NA
354	Ling	Nursery	Low	210	SELcum Fl	NA	0	NA
355	Ling	Nursery	Low	216	SELcum Fl	NA	0	NA
356	Ling	Nursery	Low	219	SELcum Fl	NA	0	NA
357	Ling	Nursery	Low	186	SELcum St	NA	0	NA
358	Ling	Nursery	Low	203	SELcum St	NA	0	NA
359	Ling	Nursery	Low	207	SELcum St	NA	0	NA
360	Ling	Nursery	Low	210	SELcum St	NA	0	NA
361	Ling	Nursery	Low	216	SELcum St	NA	0	NA
362	Ling	Nursery	Low	219	SELcum St	NA	0	NA
363	Ling	Nursery	Low	207	SPLpeak	NA	0	NA
364	Ling	Nursery	Low	213	SPLpeak	NA	0	NA
365	Ling	Spawning	Low	186	SELcum Fl	NA	0.000126	NA
366	Ling	Spawning	Low	203	SELcum Fl	NA	6.45E-07	NA
367	Ling	Spawning	Low	207	SELcum Fl	NA	1.28E-07	NA
368	Ling	Spawning	Low	210	SELcum Fl	NA	5.51E-08	NA
369	Ling	Spawning	Low	216	SELcum Fl	NA	3.34E-08	NA
370	Ling	Spawning	Low	219	SELcum Fl	NA	3.34E-08	NA
371	Ling	Spawning	Low	186	SELcum St	NA	0.001027	NA
372	Ling	Spawning	Low	203	SELcum St	NA	9.95E-05	NA
373	Ling	Spawning	Low	207	SELcum St	NA	5.33E-05	NA
374	Ling	Spawning	Low	210	SELcum St	NA	3.28E-05	NA
375	Ling	Spawning	Low	216	SELcum St	NA	1.49E-05	NA
376	Ling	Spawning	Low	219	SELcum St	NA	9.11E-06	NA
377	Ling	Spawning	Low	207	SPLpeak	NA	8.36E-08	NA
378	Ling	Spawning	Low	213	SPLpeak	NA	1.77E-08	NA
379	Mackerel	Nursery	Low	186	SELcum Fl	NA	0	NA
380	Mackerel	Nursery	Low	203	SELcum Fl	NA	0	NA
381	Mackerel	Nursery	Low	207	SELcum Fl	NA	0	NA
382	Mackerel	Nursery	Low	210	SELcum Fl	NA	0	NA
383	Mackerel	Nursery	Low	216	SELcum Fl	NA	0	NA
384	Mackerel	Nursery	Low	219	SELcum Fl	NA	0	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
385	Mackerel	Nursery	Low	186	SELcum St	NA	0	NA
386	Mackerel	Nursery	Low	203	SELcum St	NA	0	NA
387	Mackerel	Nursery	Low	207	SELcum St	NA	0	NA
388	Mackerel	Nursery	Low	210	SELcum St	NA	0	NA
389	Mackerel	Nursery	Low	216	SELcum St	NA	0	NA
390	Mackerel	Nursery	Low	219	SELcum St	NA	0	NA
391	Mackerel	Nursery	Low	207	SPLpeak	NA	0	NA
392	Mackerel	Nursery	Low	213	SPLpeak	NA	0	NA
393	Mackerel	Nursery	Undeterm	186	SELcum Fl	NA	NA	5.87E-05
394	Mackerel	Nursery	Undeterm	203	SELcum Fl	NA	NA	3.04E-07
395	Mackerel	Nursery	Undeterm	207	SELcum Fl	NA	NA	6.00E-08
396	Mackerel	Nursery	Undeterm	210	SELcum Fl	NA	NA	2.60E-08
397	Mackerel	Nursery	Undeterm	216	SELcum Fl	NA	NA	1.57E-08
398	Mackerel	Nursery	Undeterm	219	SELcum Fl	NA	NA	1.57E-08
399	Mackerel	Nursery	Undeterm	186	SELcum St	NA	NA	0.000482
400	Mackerel	Nursery	Undeterm	203	SELcum St	NA	NA	4.57E-05
401	Mackerel	Nursery	Undeterm	207	SELcum St	NA	NA	2.47E-05
402	Mackerel	Nursery	Undeterm	210	SELcum St	NA	NA	1.54E-05
403	Mackerel	Nursery	Undeterm	216	SELcum St	NA	NA	6.99E-06
404	Mackerel	Nursery	Undeterm	219	SELcum St	NA	NA	4.29E-06
405	Mackerel	Nursery	Undeterm	207	SPLpeak	NA	NA	3.94E-08
406	Mackerel	Nursery	Undeterm	213	SPLpeak	NA	NA	8.34E-09
407	Mackerel	Spawning	Low	186	SELcum Fl	NA	8.83E-05	NA
408	Mackerel	Spawning	Low	203	SELcum Fl	NA	4.53E-07	NA
409	Mackerel	Spawning	Low	207	SELcum Fl	NA	8.95E-08	NA
410	Mackerel	Spawning	Low	210	SELcum Fl	NA	3.87E-08	NA
411	Mackerel	Spawning	Low	216	SELcum Fl	NA	2.34E-08	NA
412	Mackerel	Spawning	Low	219	SELcum Fl	NA	2.34E-08	NA
413	Mackerel	Spawning	Low	186	SELcum St	NA	0.00072	NA
414	Mackerel	Spawning	Low	203	SELcum St	NA	6.98E-05	NA
415	Mackerel	Spawning	Low	207	SELcum St	NA	3.74E-05	NA
416	Mackerel	Spawning	Low	210	SELcum St	NA	2.30E-05	NA
417	Mackerel	Spawning	Low	216	SELcum St	NA	1.04E-05	NA
418	Mackerel	Spawning	Low	219	SELcum St	NA	6.39E-06	NA
419	Mackerel	Spawning	Low	207	SPLpeak	NA	5.86E-08	NA
420	Mackerel	Spawning	Low	213	SPLpeak	NA	1.24E-08	NA
421	Mackerel	Spawning	Undeterm	186	SELcum Fl	NA	NA	0
422	Mackerel	Spawning	Undeterm	203	SELcum Fl	NA	NA	0
423	Mackerel	Spawning	Undeterm	207	SELcum Fl	NA	NA	0
424	Mackerel	Spawning	Undeterm	210	SELcum Fl	NA	NA	0
425	Mackerel	Spawning	Undeterm	216	SELcum Fl	NA	NA	0
426	Mackerel	Spawning	Undeterm	219	SELcum Fl	NA	NA	0
427	Mackerel	Spawning	Undeterm	186	SELcum St	NA	NA	0
428	Mackerel	Spawning	Undeterm	203	SELcum St	NA	NA	0
429	Mackerel	Spawning	Undeterm	207	SELcum St	NA	NA	0
430	Mackerel	Spawning	Undeterm	210	SELcum St	NA	NA	0
431	Mackerel	Spawning	Undeterm	216	SELcum St	NA	NA	0
432	Mackerel	Spawning	Undeterm	219	SELcum St	NA	NA	0

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
433	Mackerel	Spawning	Undeterm	207	SPLpeak	NA	NA	0
434	Mackerel	Spawning	Undeterm	213	SPLpeak	NA	NA	0
435	Nephrops	Nursery	Undeterm	186	SELcum Fle	0	NA	NA
436	Nephrops	Nursery	Undeterm	203	SELcum Fle	0	NA	NA
437	Nephrops	Nursery	Undeterm	207	SELcum Fle	0	NA	NA
438	Nephrops	Nursery	Undeterm	210	SELcum Fle	0	NA	NA
439	Nephrops	Nursery	Undeterm	216	SELcum Fle	0	NA	NA
440	Nephrops	Nursery	Undeterm	219	SELcum Fle	0	NA	NA
441	Nephrops	Nursery	Undeterm	186	SELcum St	0	NA	NA
442	Nephrops	Nursery	Undeterm	203	SELcum St	0	NA	NA
443	Nephrops	Nursery	Undeterm	207	SELcum St	0	NA	NA
444	Nephrops	Nursery	Undeterm	210	SELcum St	0	NA	NA
445	Nephrops	Nursery	Undeterm	216	SELcum St	0	NA	NA
446	Nephrops	Nursery	Undeterm	219	SELcum St	0	NA	NA
447	Nephrops	Nursery	Undeterm	207	SPLpeak	0	NA	NA
448	Nephrops	Nursery	Undeterm	213	SPLpeak	0	NA	NA
449	Nephrops	Spawning	High	186	SELcum Fle	0	NA	NA
450	Nephrops	Spawning	High	203	SELcum Fle	0	NA	NA
451	Nephrops	Spawning	High	207	SELcum Fle	0	NA	NA
452	Nephrops	Spawning	High	210	SELcum Fle	0	NA	NA
453	Nephrops	Spawning	High	216	SELcum Fle	0	NA	NA
454	Nephrops	Spawning	High	219	SELcum Fle	0	NA	NA
455	Nephrops	Spawning	High	186	SELcum St	0	NA	NA
456	Nephrops	Spawning	High	203	SELcum St	0	NA	NA
457	Nephrops	Spawning	High	207	SELcum St	0	NA	NA
458	Nephrops	Spawning	High	210	SELcum St	0	NA	NA
459	Nephrops	Spawning	High	216	SELcum St	0	NA	NA
460	Nephrops	Spawning	High	219	SELcum St	0	NA	NA
461	Nephrops	Spawning	High	207	SPLpeak	0	NA	NA
462	Nephrops	Spawning	High	213	SPLpeak	0	NA	NA
463	Nephrops	Spawning	Undeterm	186	SELcum Fle	0	NA	NA
464	Nephrops	Spawning	Undeterm	203	SELcum Fle	0	NA	NA
465	Nephrops	Spawning	Undeterm	207	SELcum Fle	0	NA	NA
466	Nephrops	Spawning	Undeterm	210	SELcum Fle	0	NA	NA
467	Nephrops	Spawning	Undeterm	216	SELcum Fle	0	NA	NA
468	Nephrops	Spawning	Undeterm	219	SELcum Fle	0	NA	NA
469	Nephrops	Spawning	Undeterm	186	SELcum St	0	NA	NA
470	Nephrops	Spawning	Undeterm	203	SELcum St	0	NA	NA
471	Nephrops	Spawning	Undeterm	207	SELcum St	0	NA	NA
472	Nephrops	Spawning	Undeterm	210	SELcum St	0	NA	NA
473	Nephrops	Spawning	Undeterm	216	SELcum St	0	NA	NA
474	Nephrops	Spawning	Undeterm	219	SELcum St	0	NA	NA
475	Nephrops	Spawning	Undeterm	207	SPLpeak	0	NA	NA
476	Nephrops	Spawning	Undeterm	213	SPLpeak	0	NA	NA
477	Nephrops	Undeterm	Undeterm	186	SELcum Fle	NA	NA	0
478	Nephrops	Undeterm	Undeterm	203	SELcum Fle	NA	NA	0
479	Nephrops	Undeterm	Undeterm	207	SELcum Fle	NA	NA	0
480	Nephrops	Undeterm	Undeterm	210	SELcum Fle	NA	NA	0

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
481	Nephrops	Undeterm	Undeterm	216	SELcum Fl	NA	NA	0
482	Nephrops	Undeterm	Undeterm	219	SELcum Fl	NA	NA	0
483	Nephrops	Undeterm	Undeterm	186	SELcum St	NA	NA	0
484	Nephrops	Undeterm	Undeterm	203	SELcum St	NA	NA	0
485	Nephrops	Undeterm	Undeterm	207	SELcum St	NA	NA	0
486	Nephrops	Undeterm	Undeterm	210	SELcum St	NA	NA	0
487	Nephrops	Undeterm	Undeterm	216	SELcum St	NA	NA	0
488	Nephrops	Undeterm	Undeterm	219	SELcum St	NA	NA	0
489	Nephrops	Undeterm	Undeterm	207	SPLpeak	NA	NA	0
490	Nephrops	Undeterm	Undeterm	213	SPLpeak	NA	NA	0
491	Plaice	Nursery	Low	186	SELcum Fl	NA	0.000129	NA
492	Plaice	Nursery	Low	203	SELcum Fl	NA	6.59E-07	NA
493	Plaice	Nursery	Low	207	SELcum Fl	NA	1.30E-07	NA
494	Plaice	Nursery	Low	210	SELcum Fl	NA	5.63E-08	NA
495	Plaice	Nursery	Low	216	SELcum Fl	NA	3.41E-08	NA
496	Plaice	Nursery	Low	219	SELcum Fl	NA	3.41E-08	NA
497	Plaice	Nursery	Low	186	SELcum St	NA	0.001049	NA
498	Plaice	Nursery	Low	203	SELcum St	NA	0.000102	NA
499	Plaice	Nursery	Low	207	SELcum St	NA	5.44E-05	NA
500	Plaice	Nursery	Low	210	SELcum St	NA	3.35E-05	NA
501	Plaice	Nursery	Low	216	SELcum St	NA	1.52E-05	NA
502	Plaice	Nursery	Low	219	SELcum St	NA	9.31E-06	NA
503	Plaice	Nursery	Low	207	SPLpeak	NA	8.54E-08	NA
504	Plaice	Nursery	Low	213	SPLpeak	NA	1.81E-08	NA
505	Plaice	Nursery	Undeterm	186	SELcum Fl	0	NA	NA
506	Plaice	Nursery	Undeterm	203	SELcum Fl	0	NA	NA
507	Plaice	Nursery	Undeterm	207	SELcum Fl	0	NA	NA
508	Plaice	Nursery	Undeterm	210	SELcum Fl	0	NA	NA
509	Plaice	Nursery	Undeterm	216	SELcum Fl	0	NA	NA
510	Plaice	Nursery	Undeterm	219	SELcum Fl	0	NA	NA
511	Plaice	Nursery	Undeterm	186	SELcum St	0	NA	NA
512	Plaice	Nursery	Undeterm	203	SELcum St	0	NA	NA
513	Plaice	Nursery	Undeterm	207	SELcum St	0	NA	NA
514	Plaice	Nursery	Undeterm	210	SELcum St	0	NA	NA
515	Plaice	Nursery	Undeterm	216	SELcum St	0	NA	NA
516	Plaice	Nursery	Undeterm	219	SELcum St	0	NA	NA
517	Plaice	Nursery	Undeterm	207	SPLpeak	0	NA	NA
518	Plaice	Nursery	Undeterm	213	SPLpeak	0	NA	NA
519	Plaice	Spawning	High	186	SELcum Fl	0	0.000281	NA
520	Plaice	Spawning	High	203	SELcum Fl	0	1.44E-06	NA
521	Plaice	Spawning	High	207	SELcum Fl	0	2.85E-07	NA
522	Plaice	Spawning	High	210	SELcum Fl	0	1.23E-07	NA
523	Plaice	Spawning	High	216	SELcum Fl	0	7.46E-08	NA
524	Plaice	Spawning	High	219	SELcum Fl	0	7.46E-08	NA
525	Plaice	Spawning	High	186	SELcum St	0	0.002296	NA
526	Plaice	Spawning	High	203	SELcum St	0	0.000223	NA
527	Plaice	Spawning	High	207	SELcum St	0	0.000119	NA
528	Plaice	Spawning	High	210	SELcum St	0	7.34E-05	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
529	Plaice	Spawning	High	216	SELcum St	0	3.33E-05	NA
530	Plaice	Spawning	High	219	SELcum St	0	2.04E-05	NA
531	Plaice	Spawning	High	207	SPLpeak	0	1.87E-07	NA
532	Plaice	Spawning	High	213	SPLpeak	0	3.96E-08	NA
533	Plaice	Spawning	Low	186	SELcum Fl	0.000218	0	NA
534	Plaice	Spawning	Low	203	SELcum Fl	9.27E-07	0	NA
535	Plaice	Spawning	Low	207	SELcum Fl	1.69E-07	0	NA
536	Plaice	Spawning	Low	210	SELcum Fl	8.07E-08	0	NA
537	Plaice	Spawning	Low	216	SELcum Fl	4.26E-08	0	NA
538	Plaice	Spawning	Low	219	SELcum Fl	4.26E-08	0	NA
539	Plaice	Spawning	Low	186	SELcum St	0.001796	0	NA
540	Plaice	Spawning	Low	203	SELcum St	0.000172	0	NA
541	Plaice	Spawning	Low	207	SELcum St	9.08E-05	0	NA
542	Plaice	Spawning	Low	210	SELcum St	5.53E-05	0	NA
543	Plaice	Spawning	Low	216	SELcum St	2.41E-05	0	NA
544	Plaice	Spawning	Low	219	SELcum St	1.45E-05	0	NA
545	Plaice	Spawning	Low	207	SPLpeak	1.13E-07	0	NA
546	Plaice	Spawning	Low	213	SPLpeak	3.05E-08	0	NA
547	Plaice	Spawning	Undeterm	186	SELcum Fl	0	NA	NA
548	Plaice	Spawning	Undeterm	203	SELcum Fl	0	NA	NA
549	Plaice	Spawning	Undeterm	207	SELcum Fl	0	NA	NA
550	Plaice	Spawning	Undeterm	210	SELcum Fl	0	NA	NA
551	Plaice	Spawning	Undeterm	216	SELcum Fl	0	NA	NA
552	Plaice	Spawning	Undeterm	219	SELcum Fl	0	NA	NA
553	Plaice	Spawning	Undeterm	186	SELcum St	0	NA	NA
554	Plaice	Spawning	Undeterm	203	SELcum St	0	NA	NA
555	Plaice	Spawning	Undeterm	207	SELcum St	0	NA	NA
556	Plaice	Spawning	Undeterm	210	SELcum St	0	NA	NA
557	Plaice	Spawning	Undeterm	216	SELcum St	0	NA	NA
558	Plaice	Spawning	Undeterm	219	SELcum St	0	NA	NA
559	Plaice	Spawning	Undeterm	207	SPLpeak	0	NA	NA
560	Plaice	Spawning	Undeterm	213	SPLpeak	0	NA	NA
561	Sandeel	Nursery	Low	186	SELcum Fl	NA	0	NA
562	Sandeel	Nursery	Low	203	SELcum Fl	NA	0	NA
563	Sandeel	Nursery	Low	207	SELcum Fl	NA	0	NA
564	Sandeel	Nursery	Low	210	SELcum Fl	NA	0	NA
565	Sandeel	Nursery	Low	216	SELcum Fl	NA	0	NA
566	Sandeel	Nursery	Low	219	SELcum Fl	NA	0	NA
567	Sandeel	Nursery	Low	186	SELcum St	NA	0	NA
568	Sandeel	Nursery	Low	203	SELcum St	NA	0	NA
569	Sandeel	Nursery	Low	207	SELcum St	NA	0	NA
570	Sandeel	Nursery	Low	210	SELcum St	NA	0	NA
571	Sandeel	Nursery	Low	216	SELcum St	NA	0	NA
572	Sandeel	Nursery	Low	219	SELcum St	NA	0	NA
573	Sandeel	Nursery	Low	207	SPLpeak	NA	0	NA
574	Sandeel	Nursery	Low	213	SPLpeak	NA	0	NA
575	Sandeel	Spawning	High	186	SELcum Fl	NA	0	NA
576	Sandeel	Spawning	High	203	SELcum Fl	NA	0	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
577	Sandeel	Spawning	High	207	SELcum Fl	NA	0	NA
578	Sandeel	Spawning	High	210	SELcum Fl	NA	0	NA
579	Sandeel	Spawning	High	216	SELcum Fl	NA	0	NA
580	Sandeel	Spawning	High	219	SELcum Fl	NA	0	NA
581	Sandeel	Spawning	High	186	SELcum St	NA	0	NA
582	Sandeel	Spawning	High	203	SELcum St	NA	0	NA
583	Sandeel	Spawning	High	207	SELcum St	NA	0	NA
584	Sandeel	Spawning	High	210	SELcum St	NA	0	NA
585	Sandeel	Spawning	High	216	SELcum St	NA	0	NA
586	Sandeel	Spawning	High	219	SELcum St	NA	0	NA
587	Sandeel	Spawning	High	207	SPLpeak	NA	0	NA
588	Sandeel	Spawning	High	213	SPLpeak	NA	0	NA
589	Sandeel	Spawning	Low	186	SELcum Fl	NA	9.29E-05	NA
590	Sandeel	Spawning	Low	203	SELcum Fl	NA	4.76E-07	NA
591	Sandeel	Spawning	Low	207	SELcum Fl	NA	9.41E-08	NA
592	Sandeel	Spawning	Low	210	SELcum Fl	NA	4.07E-08	NA
593	Sandeel	Spawning	Low	216	SELcum Fl	NA	2.46E-08	NA
594	Sandeel	Spawning	Low	219	SELcum Fl	NA	2.46E-08	NA
595	Sandeel	Spawning	Low	186	SELcum St	NA	0.000758	NA
596	Sandeel	Spawning	Low	203	SELcum St	NA	7.35E-05	NA
597	Sandeel	Spawning	Low	207	SELcum St	NA	3.93E-05	NA
598	Sandeel	Spawning	Low	210	SELcum St	NA	2.42E-05	NA
599	Sandeel	Spawning	Low	216	SELcum St	NA	1.10E-05	NA
600	Sandeel	Spawning	Low	219	SELcum St	NA	6.73E-06	NA
601	Sandeel	Spawning	Low	207	SPLpeak	NA	6.17E-08	NA
602	Sandeel	Spawning	Low	213	SPLpeak	NA	1.31E-08	NA
603	Sole	Nursery	High	186	SELcum Fl	NA	0	NA
604	Sole	Nursery	High	203	SELcum Fl	NA	0	NA
605	Sole	Nursery	High	207	SELcum Fl	NA	0	NA
606	Sole	Nursery	High	210	SELcum Fl	NA	0	NA
607	Sole	Nursery	High	216	SELcum Fl	NA	0	NA
608	Sole	Nursery	High	219	SELcum Fl	NA	0	NA
609	Sole	Nursery	High	186	SELcum St	NA	0	NA
610	Sole	Nursery	High	203	SELcum St	NA	0	NA
611	Sole	Nursery	High	207	SELcum St	NA	0	NA
612	Sole	Nursery	High	210	SELcum St	NA	0	NA
613	Sole	Nursery	High	216	SELcum St	NA	0	NA
614	Sole	Nursery	High	219	SELcum St	NA	0	NA
615	Sole	Nursery	High	207	SPLpeak	NA	0	NA
616	Sole	Nursery	High	213	SPLpeak	NA	0	NA
617	Sole	Nursery	Low	186	SELcum Fl	NA	0	NA
618	Sole	Nursery	Low	203	SELcum Fl	NA	0	NA
619	Sole	Nursery	Low	207	SELcum Fl	NA	0	NA
620	Sole	Nursery	Low	210	SELcum Fl	NA	0	NA
621	Sole	Nursery	Low	216	SELcum Fl	NA	0	NA
622	Sole	Nursery	Low	219	SELcum Fl	NA	0	NA
623	Sole	Nursery	Low	186	SELcum St	NA	0	NA
624	Sole	Nursery	Low	203	SELcum St	NA	0	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
625	Sole	Nursery	Low	207	SELcum St	NA	0	NA
626	Sole	Nursery	Low	210	SELcum St	NA	0	NA
627	Sole	Nursery	Low	216	SELcum St	NA	0	NA
628	Sole	Nursery	Low	219	SELcum St	NA	0	NA
629	Sole	Nursery	Low	207	SPLpeak	NA	0	NA
630	Sole	Nursery	Low	213	SPLpeak	NA	0	NA
631	Sole	Nursery	Undeterm	186	SELcum Fle	0	NA	NA
632	Sole	Nursery	Undeterm	203	SELcum Fle	0	NA	NA
633	Sole	Nursery	Undeterm	207	SELcum Fle	0	NA	NA
634	Sole	Nursery	Undeterm	210	SELcum Fle	0	NA	NA
635	Sole	Nursery	Undeterm	216	SELcum Fle	0	NA	NA
636	Sole	Nursery	Undeterm	219	SELcum Fle	0	NA	NA
637	Sole	Nursery	Undeterm	186	SELcum St	0	NA	NA
638	Sole	Nursery	Undeterm	203	SELcum St	0	NA	NA
639	Sole	Nursery	Undeterm	207	SELcum St	0	NA	NA
640	Sole	Nursery	Undeterm	210	SELcum St	0	NA	NA
641	Sole	Nursery	Undeterm	216	SELcum St	0	NA	NA
642	Sole	Nursery	Undeterm	219	SELcum St	0	NA	NA
643	Sole	Nursery	Undeterm	207	SPLpeak	0	NA	NA
644	Sole	Nursery	Undeterm	213	SPLpeak	0	NA	NA
645	Sole	Spawning	High	186	SELcum Fle	0	0	NA
646	Sole	Spawning	High	203	SELcum Fle	0	0	NA
647	Sole	Spawning	High	207	SELcum Fle	0	0	NA
648	Sole	Spawning	High	210	SELcum Fle	0	0	NA
649	Sole	Spawning	High	216	SELcum Fle	0	0	NA
650	Sole	Spawning	High	219	SELcum Fle	0	0	NA
651	Sole	Spawning	High	186	SELcum St	0	0	NA
652	Sole	Spawning	High	203	SELcum St	0	0	NA
653	Sole	Spawning	High	207	SELcum St	0	0	NA
654	Sole	Spawning	High	210	SELcum St	0	0	NA
655	Sole	Spawning	High	216	SELcum St	0	0	NA
656	Sole	Spawning	High	219	SELcum St	0	0	NA
657	Sole	Spawning	High	207	SPLpeak	0	0	NA
658	Sole	Spawning	High	213	SPLpeak	0	0	NA
659	Sole	Spawning	Low	186	SELcum Fle	0.000242	0.000103	NA
660	Sole	Spawning	Low	203	SELcum Fle	1.03E-06	5.27E-07	NA
661	Sole	Spawning	Low	207	SELcum Fle	1.88E-07	1.04E-07	NA
662	Sole	Spawning	Low	210	SELcum Fle	8.96E-08	4.50E-08	NA
663	Sole	Spawning	Low	216	SELcum Fle	4.72E-08	2.72E-08	NA
664	Sole	Spawning	Low	219	SELcum Fle	4.72E-08	2.72E-08	NA
665	Sole	Spawning	Low	186	SELcum St	0.001993	0.000838	NA
666	Sole	Spawning	Low	203	SELcum St	0.000191	8.13E-05	NA
667	Sole	Spawning	Low	207	SELcum St	0.000101	4.35E-05	NA
668	Sole	Spawning	Low	210	SELcum St	6.14E-05	2.68E-05	NA
669	Sole	Spawning	Low	216	SELcum St	2.68E-05	1.22E-05	NA
670	Sole	Spawning	Low	219	SELcum St	1.61E-05	7.44E-06	NA
671	Sole	Spawning	Low	207	SPLpeak	1.25E-07	6.82E-08	NA
672	Sole	Spawning	Low	213	SPLpeak	3.39E-08	1.45E-08	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
673	Spotted ra	Nursery	Low	186	SELcum Fl	NA	0.000122	NA
674	Spotted ra	Nursery	Low	203	SELcum Fl	NA	6.28E-07	NA
675	Spotted ra	Nursery	Low	207	SELcum Fl	NA	1.24E-07	NA
676	Spotted ra	Nursery	Low	210	SELcum Fl	NA	5.37E-08	NA
677	Spotted ra	Nursery	Low	216	SELcum Fl	NA	3.25E-08	NA
678	Spotted ra	Nursery	Low	219	SELcum Fl	NA	3.25E-08	NA
679	Spotted ra	Nursery	Low	186	SELcum St	NA	0.000999	NA
680	Spotted ra	Nursery	Low	203	SELcum St	NA	9.68E-05	NA
681	Spotted ra	Nursery	Low	207	SELcum St	NA	5.18E-05	NA
682	Spotted ra	Nursery	Low	210	SELcum St	NA	3.19E-05	NA
683	Spotted ra	Nursery	Low	216	SELcum St	NA	1.45E-05	NA
684	Spotted ra	Nursery	Low	219	SELcum St	NA	8.86E-06	NA
685	Spotted ra	Nursery	Low	207	SPLpeak	NA	8.13E-08	NA
686	Spotted ra	Nursery	Low	213	SPLpeak	NA	1.72E-08	NA
687	Sprat	Spawning	Undeterm	186	SELcum Fl	6.15E-05	NA	NA
688	Sprat	Spawning	Undeterm	203	SELcum Fl	2.61E-07	NA	NA
689	Sprat	Spawning	Undeterm	207	SELcum Fl	4.77E-08	NA	NA
690	Sprat	Spawning	Undeterm	210	SELcum Fl	2.28E-08	NA	NA
691	Sprat	Spawning	Undeterm	216	SELcum Fl	1.20E-08	NA	NA
692	Sprat	Spawning	Undeterm	219	SELcum Fl	1.20E-08	NA	NA
693	Sprat	Spawning	Undeterm	186	SELcum St	0.000506	NA	NA
694	Sprat	Spawning	Undeterm	203	SELcum St	4.84E-05	NA	NA
695	Sprat	Spawning	Undeterm	207	SELcum St	2.56E-05	NA	NA
696	Sprat	Spawning	Undeterm	210	SELcum St	1.56E-05	NA	NA
697	Sprat	Spawning	Undeterm	216	SELcum St	6.80E-06	NA	NA
698	Sprat	Spawning	Undeterm	219	SELcum St	4.08E-06	NA	NA
699	Sprat	Spawning	Undeterm	207	SPLpeak	3.18E-08	NA	NA
700	Sprat	Spawning	Undeterm	213	SPLpeak	8.60E-09	NA	NA
701	Spurdog	Nursery	High	186	SELcum Fl	NA	0	NA
702	Spurdog	Nursery	High	203	SELcum Fl	NA	0	NA
703	Spurdog	Nursery	High	207	SELcum Fl	NA	0	NA
704	Spurdog	Nursery	High	210	SELcum Fl	NA	0	NA
705	Spurdog	Nursery	High	216	SELcum Fl	NA	0	NA
706	Spurdog	Nursery	High	219	SELcum Fl	NA	0	NA
707	Spurdog	Nursery	High	186	SELcum St	NA	0	NA
708	Spurdog	Nursery	High	203	SELcum St	NA	0	NA
709	Spurdog	Nursery	High	207	SELcum St	NA	0	NA
710	Spurdog	Nursery	High	210	SELcum St	NA	0	NA
711	Spurdog	Nursery	High	216	SELcum St	NA	0	NA
712	Spurdog	Nursery	High	219	SELcum St	NA	0	NA
713	Spurdog	Nursery	High	207	SPLpeak	NA	0	NA
714	Spurdog	Nursery	High	213	SPLpeak	NA	0	NA
715	Thornback	Nursery	Low	186	SELcum Fl	NA	0.000126	NA
716	Thornback	Nursery	Low	203	SELcum Fl	NA	6.45E-07	NA
717	Thornback	Nursery	Low	207	SELcum Fl	NA	1.27E-07	NA
718	Thornback	Nursery	Low	210	SELcum Fl	NA	5.51E-08	NA
719	Thornback	Nursery	Low	216	SELcum Fl	NA	3.33E-08	NA
720	Thornback	Nursery	Low	219	SELcum Fl	NA	3.33E-08	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
721	Thornback	Nursery	Low	186	SELcum St	NA	0.001026	NA
722	Thornback	Nursery	Low	203	SELcum St	NA	9.95E-05	NA
723	Thornback	Nursery	Low	207	SELcum St	NA	5.32E-05	NA
724	Thornback	Nursery	Low	210	SELcum St	NA	3.28E-05	NA
725	Thornback	Nursery	Low	216	SELcum St	NA	1.49E-05	NA
726	Thornback	Nursery	Low	219	SELcum St	NA	9.10E-06	NA
727	Thornback	Nursery	Low	207	SPLpeak	NA	8.35E-08	NA
728	Thornback	Nursery	Low	213	SPLpeak	NA	1.77E-08	NA
729	Tope shark	Nursery	Low	186	SELcum Fl	NA	0.000104	NA
730	Tope shark	Nursery	Low	203	SELcum Fl	NA	5.31E-07	NA
731	Tope shark	Nursery	Low	207	SELcum Fl	NA	1.05E-07	NA
732	Tope shark	Nursery	Low	210	SELcum Fl	NA	4.54E-08	NA
733	Tope shark	Nursery	Low	216	SELcum Fl	NA	2.75E-08	NA
734	Tope shark	Nursery	Low	219	SELcum Fl	NA	2.75E-08	NA
735	Tope shark	Nursery	Low	186	SELcum St	NA	0.000845	NA
736	Tope shark	Nursery	Low	203	SELcum St	NA	8.19E-05	NA
737	Tope shark	Nursery	Low	207	SELcum St	NA	4.39E-05	NA
738	Tope shark	Nursery	Low	210	SELcum St	NA	2.70E-05	NA
739	Tope shark	Nursery	Low	216	SELcum St	NA	1.23E-05	NA
740	Tope shark	Nursery	Low	219	SELcum St	NA	7.50E-06	NA
741	Tope shark	Nursery	Low	207	SPLpeak	NA	6.88E-08	NA
742	Tope shark	Nursery	Low	213	SPLpeak	NA	1.46E-08	NA
743	Whiting	Nursery	High	186	SELcum Fl	NA	0.000142	NA
744	Whiting	Nursery	High	203	SELcum Fl	NA	7.28E-07	NA
745	Whiting	Nursery	High	207	SELcum Fl	NA	1.44E-07	NA
746	Whiting	Nursery	High	210	SELcum Fl	NA	6.22E-08	NA
747	Whiting	Nursery	High	216	SELcum Fl	NA	3.77E-08	NA
748	Whiting	Nursery	High	219	SELcum Fl	NA	3.77E-08	NA
749	Whiting	Nursery	High	186	SELcum St	NA	0.001159	NA
750	Whiting	Nursery	High	203	SELcum St	NA	0.000112	NA
751	Whiting	Nursery	High	207	SELcum St	NA	6.01E-05	NA
752	Whiting	Nursery	High	210	SELcum St	NA	3.70E-05	NA
753	Whiting	Nursery	High	216	SELcum St	NA	1.68E-05	NA
754	Whiting	Nursery	High	219	SELcum St	NA	1.03E-05	NA
755	Whiting	Nursery	High	207	SPLpeak	NA	9.43E-08	NA
756	Whiting	Nursery	High	213	SPLpeak	NA	2.00E-08	NA
757	Whiting	Nursery	Low	186	SELcum Fl	NA	0	NA
758	Whiting	Nursery	Low	203	SELcum Fl	NA	0	NA
759	Whiting	Nursery	Low	207	SELcum Fl	NA	0	NA
760	Whiting	Nursery	Low	210	SELcum Fl	NA	0	NA
761	Whiting	Nursery	Low	216	SELcum Fl	NA	0	NA
762	Whiting	Nursery	Low	219	SELcum Fl	NA	0	NA
763	Whiting	Nursery	Low	186	SELcum St	NA	0	NA
764	Whiting	Nursery	Low	203	SELcum St	NA	0	NA
765	Whiting	Nursery	Low	207	SELcum St	NA	0	NA
766	Whiting	Nursery	Low	210	SELcum St	NA	0	NA
767	Whiting	Nursery	Low	216	SELcum St	NA	0	NA
768	Whiting	Nursery	Low	219	SELcum St	NA	0	NA

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
769	Whiting	Nursery	Low	207	SPLpeak	NA	0	NA
770	Whiting	Nursery	Low	213	SPLpeak	NA	0	NA
771	Whiting	Nursery	Undeterm	186	SELcum Fl	0.000198	NA	0
772	Whiting	Nursery	Undeterm	203	SELcum Fl	8.40E-07	NA	0
773	Whiting	Nursery	Undeterm	207	SELcum Fl	1.53E-07	NA	0
774	Whiting	Nursery	Undeterm	210	SELcum Fl	7.31E-08	NA	0
775	Whiting	Nursery	Undeterm	216	SELcum Fl	3.86E-08	NA	0
776	Whiting	Nursery	Undeterm	219	SELcum Fl	3.86E-08	NA	0
777	Whiting	Nursery	Undeterm	186	SELcum St	0.001627	NA	0
778	Whiting	Nursery	Undeterm	203	SELcum St	0.000156	NA	0
779	Whiting	Nursery	Undeterm	207	SELcum St	8.23E-05	NA	0
780	Whiting	Nursery	Undeterm	210	SELcum St	5.01E-05	NA	0
781	Whiting	Nursery	Undeterm	216	SELcum St	2.18E-05	NA	0
782	Whiting	Nursery	Undeterm	219	SELcum St	1.31E-05	NA	0
783	Whiting	Nursery	Undeterm	207	SPLpeak	1.02E-07	NA	0
784	Whiting	Nursery	Undeterm	213	SPLpeak	2.76E-08	NA	0
785	Whiting	Spawning	High	186	SELcum Fl	0	NA	NA
786	Whiting	Spawning	High	203	SELcum Fl	0	NA	NA
787	Whiting	Spawning	High	207	SELcum Fl	0	NA	NA
788	Whiting	Spawning	High	210	SELcum Fl	0	NA	NA
789	Whiting	Spawning	High	216	SELcum Fl	0	NA	NA
790	Whiting	Spawning	High	219	SELcum Fl	0	NA	NA
791	Whiting	Spawning	High	186	SELcum St	0	NA	NA
792	Whiting	Spawning	High	203	SELcum St	0	NA	NA
793	Whiting	Spawning	High	207	SELcum St	0	NA	NA
794	Whiting	Spawning	High	210	SELcum St	0	NA	NA
795	Whiting	Spawning	High	216	SELcum St	0	NA	NA
796	Whiting	Spawning	High	219	SELcum St	0	NA	NA
797	Whiting	Spawning	High	207	SPLpeak	0	NA	NA
798	Whiting	Spawning	High	213	SPLpeak	0	NA	NA
799	Whiting	Spawning	Low	186	SELcum Fl	0	7.57E-05	NA
800	Whiting	Spawning	Low	203	SELcum Fl	0	3.88E-07	NA
801	Whiting	Spawning	Low	207	SELcum Fl	0	7.67E-08	NA
802	Whiting	Spawning	Low	210	SELcum Fl	0	3.32E-08	NA
803	Whiting	Spawning	Low	216	SELcum Fl	0	2.01E-08	NA
804	Whiting	Spawning	Low	219	SELcum Fl	0	2.01E-08	NA
805	Whiting	Spawning	Low	186	SELcum St	0	0.000617	NA
806	Whiting	Spawning	Low	203	SELcum St	0	5.98E-05	NA
807	Whiting	Spawning	Low	207	SELcum St	0	3.20E-05	NA
808	Whiting	Spawning	Low	210	SELcum St	0	1.97E-05	NA
809	Whiting	Spawning	Low	216	SELcum St	0	8.95E-06	NA
810	Whiting	Spawning	Low	219	SELcum St	0	5.48E-06	NA
811	Whiting	Spawning	Low	207	SPLpeak	0	5.03E-08	NA
812	Whiting	Spawning	Low	213	SPLpeak	0	1.07E-08	NA
813	Whiting	Spawning	Undeterm	186	SELcum Fl	NA	NA	0.000132
814	Whiting	Spawning	Undeterm	203	SELcum Fl	NA	NA	6.93E-07
815	Whiting	Spawning	Undeterm	207	SELcum Fl	NA	NA	1.37E-07
816	Whiting	Spawning	Undeterm	210	SELcum Fl	NA	NA	5.92E-08

	Species	Habitat_type	Intensity	Pile_level	model_type	Coull	Ellis	Ireland Atlas
817	Whiting	Spawning	Undeterm	216	SELcum Fl	NA	NA	3.58E-08
818	Whiting	Spawning	Undeterm	219	SELcum Fl	NA	NA	3.58E-08
819	Whiting	Spawning	Undeterm	186	SELcum St	NA	NA	0.001095
820	Whiting	Spawning	Undeterm	203	SELcum St	NA	NA	0.000101
821	Whiting	Spawning	Undeterm	207	SELcum St	NA	NA	5.47E-05
822	Whiting	Spawning	Undeterm	210	SELcum St	NA	NA	3.48E-05
823	Whiting	Spawning	Undeterm	216	SELcum St	NA	NA	1.59E-05
824	Whiting	Spawning	Undeterm	219	SELcum St	NA	NA	9.78E-06
825	Whiting	Spawning	Undeterm	207	SPLpeak	NA	NA	8.97E-08
826	Whiting	Spawning	Undeterm	213	SPLpeak	NA	NA	1.90E-08