

Collision rate estimates of seabirds at Neart na Gaoithe

Collision rate modelling using the SOSS Band model









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Preface

In 2009-2012 ship-based surveys following the European Seabirds at Sea (ESAS) methodology have been carried out as part of the baseline study for wind farm initiatives at Neart na Gaoithe off the east coast of Fife, Scotland.

Mainstream has commissioned Bureau Waardenburg to carry out collision rate modelling based on the densities of flying birds recorded during the surveys. This report presents the collision rate estimates for birds at Neart na Gaoithe.

The project team of Bureau Waardenburg consisted of and was responsible for:

M.P. Collier collision rate modelling, report

M. Japink database management

M.J.M. Poot project management, collision rate, modelling, report

Cork Ecology, Colin Barton and Claire Pollock, have been particularly helpful with providing their databases and answering questions. This project was commissioned by Mainstream Renewable Energy and coordinated by Zoe Crutchfield, who also ensured that data for the collision rate modelling were available.

Theo Boudewijn provided comments on previous versions of this report. The authors thank everyone who has contributed during discussions over these analyses for their contribution, particularly Colin Barton and Claire Pollock (both Cork Ecology), Digger Jackson (Natural Research), Phil Bloor (Pelagica) and Phil Whitfield (Natural Research).

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1 Introduction

In 2009-2012 ship-based surveys following the European Seabirds at Sea (ESAS) methodology have been carried out as part of the baseline study for wind farm initiatives at Neart na Gaoithe (NnG) off the east coast of Fife, Scotland.

Mainstream has commissioned Bureau Waardenburg to carry out collision rate modelling based on the densities of flying birds recorded during the surveys.

In this report, the analysis and results collision rate estimates for birds at Neart na Gaoithe are presented as determined following the SOSS Band model (see §2.2). This report should be regarded as background document to support the understanding of collision rate estimates for Neart na Gaoithe. The main goal of this report is to provide a clear overview of the analyses carried out and present the results in a comprehensive and accessible form. The data presented within this report are delivered as electronic data files, enabling the data to be easily processed for presentation in final documents.

2 Methods

2.1 Base Material

In this section we describe the procedures carried out during the handling of ESAS data collected at Neart na Gaoithe. The data analysed in this report were collected according to ESAS ship-based survey methodology (Tasker *et al.* 1984; Camphuysen *et al.* 2004). Monthly surveys at Neart na Gaoithe were carried out from November 2009 until October 2012 (with the exception of November 2010 and December 2011). Survey conditions and observations *etc.* are given in Mainstream Renewable Power (2012).

Preparation of database (ESAS model)

The physical data model was built on a PostgreSQL database server and was based on the 'SAST Coding Manual v 6.pdf' along with some additions (see figure 2.1). All coding lists were imported in tables and survey data from Neart na Gaoithe were imported to the database. Geometric fields for spatial querying of the data are non-projected in WGS84.

During the uploading of the data some fundamental checks were carried out using a Microsoft (MS) Access database as a front-end to the PostgreSQL database. Therefore, all PostgreSQL tables are ODBC-linked in MS Access and the data table-structures for trips, environment, bird and base data are hard copied.

Processing data (trip, environment, bird, base) ready for analysis

The different steps of how the base data were processed are described below. The different steps indicated are presented schematically in figure 2.2.

Formatting paradox export files

Paradox exports are required to be in text format. In this case files where delivered in csv format, therefore, the following steps were undertaken:

- replacing spaces with underscores in column names in the csv files;
- replacing all ',' with ';' as field delimiter.

Read into MS Access front-end

- All formatted files were read in hard copied MS Access native tables prior to adding to PostgreSQL.
- A record count was made to ensure all data were successfully imported.

Check against coding lists

- Each field was checked against its coding list to find missing values etc.

Upload in database

During the import some fields were recalculated.

- Latitude and longitude minutes were changed back to '.' separated values.

Corrections

The only corrections made to the data were in the field 'distance'.

- a new field 'flight_altitude' was populated with the numeric information from the 'distance' field.
- all 'distance' fields with numeric data were replaced with 'F' to indicate flying birds.

Additions

The ESAS database structure has been extended with some extra fields and an extra table.

- a geometry field in the base table was updated with point locations based on the coordinates in latitude and longitude.
- an 'in_out' field in the base table was updated with a 'study area' number, see figure 2.3 for a visible representation.
- an extra survey table was populated with lines calculated from base points with the following criteria 'count_type' =1 AND key fields from the Neart na Gaoithe survey data AND 'in out' is not null'.
- line lengths were calculated in UTM 30N projection.
- *N.B.* For Distance analyses, line lengths were halved as Distance software assumes that observations along transects are made on two sides.

SELECT and analyse

Following loading and checking the data were ready for use in analysis.

- selection of major sea state, wind direction and observer for each survey for each transect.
- selection of flying or 'distance birds'.
- export of required data for Distance and density calculations.

Data used in the collision rate modelling were based on:

- flying birds in transect (in the 'snapshot' count);
- birds not associated with the observer base or similar vessels;
- only birds within the area of interest, i.e. Neart na Gaoithe development area.

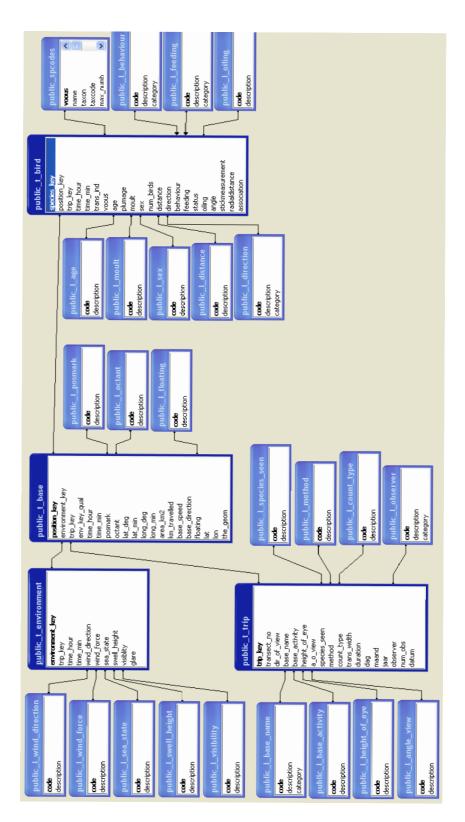


Figure 2.1 Overview of the database according the ESAS data model.

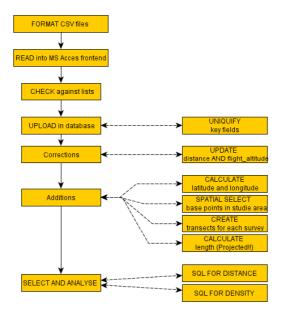


Figure 2.2 Overview of the processing steps to make the data ready for analysis.

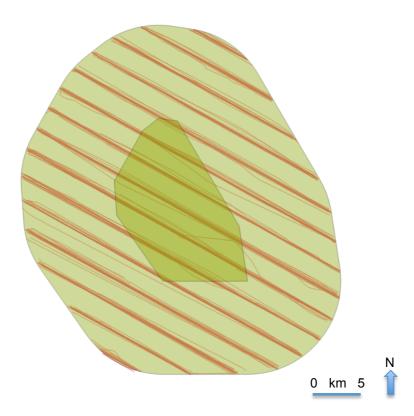


Figure 2.3 For the Collision rate modelling, densities of flying birds from within the development area (mid-green) were used and the flight heights calculated from birds also in the Neart na Gaoithe area (light green). Observations outside the delimited study area of Neart na Gaoithe were excluded. The transect (red lines) lengths were amended accordingly.

2.2 Collision rate modelling

For various bird species, the level of collision-related mortality was estimated by collision rate modelling. The model used was that published by the Crown Estate Strategic Ornithological Support Services group in August 2012 (Band 2012; available from http://www.bto.org/science/wetland-and-marine/soss/projects). This model, based on the SNH/Band collision risk model (Band *et al.* 2007; available from http://www.snh.gov.uk/planning-and-development/renewable-energy/onshore-wind/assessing-bird-collision-risks/), has been extended to allow the direct input of density data and to allow the comparison of various avoidance rates on the estimated collision rates.

Based on the physical characteristics of both the turbine and species of bird, a turbine/species-specific probability of collision for a single bird crossing the rotor-swept area can be calculated. This probability is then applied to the number of birds crossing the rotor-swept area of an entire wind farm, which is estimated based on the density of flying birds and the size and number of turbines. Finally, an avoidance factor is applied that accounts for birds avoiding turbines, were they present.

Within this model, Option 1 (Basic model) was used to estimate the Overall Collision Risk.

The model also allows a correction factor for large arrays, which assumes a decreasing density of birds across the wind farm that is relative to numbers of birds that have been assumed to collide. For the current wind farm scenarios, this correction factor has the effect of reducing the estimates of the numbers of collisions by a fraction of a percent, and has therefore not been applied.

The collision risk model makes a number of assumptions and is further sensitive to changes in avoidance rates (Chamberlain *et al.* 2006), which urge caution when interpreting the results. Here, four different avoidance rates have been applied: 95%, 98%, 99% and 99.5%.

Data for the various wind farm variants and turbine-specific data were provided by Mainstream and are given in section 6.1. Data for species-specific parameters, such as length, wingspan and flight speed, were obtained from literature. These are also given in section 6.1. Not all data were available for all wind farm scenarios or for all species modelled. Missing data were estimated based on similar turbines or on similar species.

The proportions of each species flying at rotor height were calculated from data recorded during the ship-based surveys (see section 2.1). The heights of flying birds were recorded in 5m categories. For each turbine variant, the proportions of birds recorded in the height categories of the rotor tip at its lowest point to the rotor tip at its highest point were taken as the proportion flying at rotor height. For the turbines with

a minimum rotor height of 27.5m above mean sea level (MSL), proportions of birds at rotor heights were taken as being in the 30m category (27.5 - 32.5m) and above, thus from 27.5 m.

Only flying birds recorded as 'in transect', thus within the snapshot count, were included when calculating species-specific densities (see sections 2.1 and 2.2). Monthly densities, and therefore monthly collision rates, were calculated, which were summed to provide annual collision rates. In cases of missing data, annual collision rates were calculated based on mean of monthly data extrapolated across the entire year.

An additional 22 species were assessed based on a fixed number of passages per year (flux), from which aerial densities were calculated. This flux was based on 1,000 birds passing through the development area in a north-south/south-north direction two times a year. The width of the development area was taken as 8.22km. Aerial density was calculated following Annex 2 of the guidance published by the Crown Estate Strategic Ornithological Support Services group. The assumption was made that 1,000 individuals of each species assessed passed through the development area during April and then again in September. This would yield the same results if these birds passed during any time frame within the year. Flight heights for these additional species were based on published data (section 3.1). The results of the collision rate modelling for the additional species are given in section 6.5.

3 Collision rate modelling using the basic model - option 1

3.1 Introduction

Below the results of the collision rate modelling are presented for years 1 (November 2009 to October 2010), 2 (November 2010 to October 2011) and 3 (November 2011 to October 2012) and on the basis of all three years worth of data (November 2009 to October 2012). A total of four wind farm variants were modelled. The parameters of each variant that were used in the collision rate modelling are given in table 3.1.1. For each of the wind farm variants a monthly operating time was provided by Mainstream (table 3.1.2).

Table 3.1.1 Parameters used in collision rate modelling, for four wind farm variants at Neart na Gaoithe.

Variant	Number of blades	Rotation speed (rpm)	Rotor radius (m)	Minimum rotor height	Maximum blade width (m)	Pitch (°)	Number of turbines	Latitude (DD)
90 x 5MW	3	10.20	67.5	27.5 ²	4.8	15 ¹	90	56.27
73 x 6.15MW	3	9.90	63	27.5 ²	4.5	15 ¹	73	56.27
73 x 6.15MW	3	8.25	76	27.5 ²	4.5	15 ¹	73	56.27
75 x 6MW	3	8.00	77	27.5^{2}	5.0	15 ¹	75	56.27

¹ Data based on nominal value.

Table 3.1.2 Monthly operating times as used in collision rate modelling, for four wind farm variants at Neart na Gaoithe. Figures were provided by Mainstream.

					Propor	tion of ti	me in op	eration				
Variant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
90 x 5MW	0.88	0.85	0.85	0.83	0.83	0.82	0.81	0.79	0.83	0.85	0.87	0.84
73 x 6.15MW	0.88	0.85	0.85	0.83	0.83	0.82	0.81	0.79	0.83	0.85	0.87	0.84
73 x 6.15MW	0.88	0.85	0.85	0.83	0.83	0.82	0.81	0.79	0.83	0.85	0.87	0.84
75 x 6MW	0.89	0.86	0.87	0.85	0.86	0.85	0.84	0.82	0.86	0.87	0.89	0.86

For each of the four wind farm variants, collision rate modelling was carried out for a total of 34 species or species-groups. For 12 species this was based on recorded densities and for the 22 additional species on a predefined flux of 1,000 bird passages occurring twice a year. The parameters of each species that were used in the collision rate modelling are given in table 3.1.3.

Results of the collision rate modelling are given in § 3.2 to 3.6. Firstly, data based on the densities of birds recorded during the each study year are presented, followed by those based on mean densities from all three years. Finally the results for the additional species are presented, which are based on densities calculated from fluxes of 1,000 in the month of April and 1,000 in September (see 2.2). Note that results for

² For mean sea level (MSL).

Pink-footed Goose and Great Skua in § 3.2 to 3.5 are based on recorded densities and use the recorded proportions at rotor height.

Table 3.1.3 Parameters used in collision rate modelling for 34 bird species/groups.

Species	Length ¹ (m)	Wingspan ¹ (m)	Flight speed (m/s)	Flapping (0) or gliding (1)	Nocturnal activity factor ⁵ (1-5)	Proportion at rotor height ⁶
Gannet	0.935	1.725	14.9 ³	0	2	0.047
Kittiwake	0.39	1.075	13.1 ²	0	3	0.042
Guillemot	0.395	0.67	19.1⁴	0	2	0.001
Razorbill	0.38	0.655	16.0⁴	0	1	0.000
Puffin	0.275	0.55	17.6 ³	0	1	0.000
Herring Gull	0.61	1.44	12.8 ²	0	3	0.321
Pink-footed Goose	0.76	1.61	17.3 ^{2,10}	0	5	0.991
Great Skua	0.58	1.40	15.6 ²	0	1	0.000
Little Gull	0.28	0.69	11.5 ²	0	2	0.526
Lesser Black-backed Gull	0.56	1.34	13.1 ²	0	3	0.079
Great Black-backed Gull	0.74	1.66	13.7 ²	0	3	0.181
Large gulls combined	0.64	1.48 ⁷	13.2 ⁷	0	3	0.253
additional species						
Red-throated Diver	0.74	1.1	18.6	0	1	0.029
Black-throated Diver	0.85	1.22	19.3	0	1	0.019
Bean Goose	0.88	1.74	17.3	0	5	0.75 ¹¹
Pink-footed goose	0.76	1.61	17.3 ²	0	5	0.75 ¹¹
Barnacle Goose	0.70	1.42	17.0	0	5	0.75 ¹¹
Bar-tailed Godwit	0.41	0.72	18.3	0	5	0.75 ¹¹
Black-tailed Godwit	0.42	0.74	18.3	0	5	0.75 ¹¹
Knot	0.26	0.53	20.1	0	5	0.75 ¹¹
Curlew	0.57	1.06	16.3	0	5	0.75 ¹¹
Dunlin	0.21	0.36	15.3	0	5	0.75 ¹¹
Sanderling	0.21	0.45	15.3	0	5	0.75 ¹¹
Grey Plover	0.29	0.63	17.9	0	5	0.75 ¹¹
Lapwing	0.31	0.72	12.8	0	5	0.75 ¹¹
Ringed Plover	0.20	0.41	19.5	0	5	0.75 ¹¹
Redshank	0.27	0.53	9.6	0	5	0.75 ¹¹
Turnstone	0.24	0.49	14.9	0	5	0.75 ¹¹
Oystercatcher	0.44	0.83	13.0	0	1	0.75 ¹¹
Arctic Skua	0.405	1.13	13.3 ³	0	1	0.038 ⁹
Great Skua	0.58	1.40	15.6 ²	0	1	0.043 ⁹
Common Tern	0.355	0.75	10.55	0	1	0.1279
Arctic Tern	0.36	0.715	10.9	0	1	0.0289
Sandwich Tern	0.43	0.97	11.8 ⁸	0	1	0.036 ⁹

¹ Taken from Cramp & Perrins (1974-1994) or Snow & Perrins (1997)

² Taken from Alerstam et al. (2007).

³ Taken from Pennycuick (1997).

⁴ Taken from Pennycuick (1987).

⁵ Taken from Garthe & Hüppop (2004).

⁶ Based on observed flight heights from ship-based surveys carried out at Neart na Gaoithe between Nevember 2009 and October 2012. November 2009 and October 2012.

Taken as the mean values of Herring Gull, Lesser Black-backed Gull and Great Black-backed Gull.

Taken from Wakeling & Hodgson (1992).

Taken from Cook et al. (2012).

Based on Bean Goose.

3.2 Results Year 1

Table 3.2.1 Densities of flying birds at Neart na Gaoithe development area between November 2009 and October 2010. Data gathered during ship-based surveys, see § 2.1.

	Density	Density										
	(birds/km2)	birds/km2)										
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet	0.064	_	7	•	•	2.208	0.838			1.506	0	0.000
Kittiwake	0.000	0.000	0.000	0.064	968.0	0.189	0.387	0.064	1.576	1.255	0	0.127
Guillemot	0.000	_	_	•	•	0.063	0.000			0.314	0.128	0.064
Razorbill	0.064	_	_	J	J	0.000	0.06			0.000	J	0.000
Puffin	0.000	_	_	•••	J	0.379	0.387			0.000	J	0.000
Herring Gull	0.192	_	_	J	J	0.063	0.000			0.000	J	0.255
Pink-footed Goose		_	_	J	J	0.000	0.000			0.000	J	0.000
Great Skua		_	_	J	J	0.000	0.000			0.000	J	0.000
Little Gull		_	_	J	J	0.000	0.000			0.063	J	0.000
Lesser Black-backed Gull		_	_	J	J	0.000	0.06			0.000	0.000	0.000
Great Black-backed Gull	0.128	_	_	J	J	0.000	0.00			0.000	J	0.191
Large gulls combined	0.320	J	J	J	J	0.063	0.06			0.00	J	0.445

Table 3.2.2 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of transits through the rotor-swept area.

	during	transits through	Potential number of transits through	Potential number of transits through	Potential number of transits through	Potential number of transits through		Potential number of transits through	Potential number of transits through	Potential number of transits through		transits through	Potential number of transits through	TOTAL transits through rotor-swept
				rotor-swept										
Species		area Jan	area Feb	area Mar			area Jun				area Oct		area Dec	YEAR
Gannet	0.079	556	1651	44910	14521	19642	30397	11671	21455	38300	15470	1686	0	200260
Kittiwake	0.062	0	0	0	700	4727	2255	4700	743	16637	12807	1779	1169	45518
Guillemot	0.055	0	56	27	328	292	18	0	0	0	66	23	11	819
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.072	13292	4146	18535	5180	0	5558	0	0	0	0	13155	17291	77157
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.066	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.059	0	0	0	0	0	0	0	0	0	5601	0	0	5601
Lesser Black-backed Gull	0.069	0	0	0	1296	1458	0	1449	0	0	0	0	0	4203
Great Black-backed Gull	0.075	5341	0	0	0	0	0	0	0	3090	0	2643	7816	18890
Large gulls combined	0.072	18020	3373	15077	8427	4739	4521	4712	0	4170	0	14267	24614	101920

Neart na Gaoithe 73 x 6.15MW - 126

	Probability	Potential number of	TOTAL transits											
	of collision	transits	through											
	during	through	rotor-swept											
	single rotor	rotor-swept	rotor-swept	rotor-swept	rotor-swept		rotor-swept				rotor-swept	rotor-swept	rotor-swept	area per
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.079	421	1250	33999	10993	14870	23012	8835	16242	28995	11711	1276	0	151604
Kittiwake	0.062	. 0	0	0	530	3579	1707	3558	563	12595	9696	1347	885	34459
Guillemot	0.055	0	43	20	248	221	13	0	0	0	50	17	8	620
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.071	10062	3139	14032	3921	0	4208	0	0	0	0	9958	13090	58410
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.067	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.058	0	0	0	0	0	0	0	0	0	4240	0	0	4240
Lesser Black-backed Gull	0.069	0	0	0	981	1103	0	1097	0	0	0	0	0	3182
Great Black-backed Gull	0.075	4043	0	0	0	0	0	0	0	2339	0	2001	5917	14301
Large gulls combined	0.072	13642	2553	11414	6379	3588	3423	3567	0	3157	0	10801	18633	77157

Neart na Gaoithe 73 x 6.15MW - 152

Species	Probability of collision during single rotor crossing	transits through	Potential number of transits through rotor-swept area Feb	Potential number of transits through rotor-swept area Mar	Potential number of transits through rotor-swept area Apr	transits through rotor-swept	Potential number of transits through rotor-swept area Jun	rotor-swept	Potential number of transits through rotor-swept area Aug	Potential number of transits through rotor-swept area Sep	Potential number of transits through rotor-swept area Oct	Potential number of transits through rotor-swept area Nov	Potential number of transits through rotor-swept area Dec	TOTAL transits through rotor-swept area per YEAR
Gannet	0.065	508	1508	41014	13262	17938	27760	10658	19594	34978	14128	1540	0	182887
Kittiwake	0.051	0	(0	640	4317	2059	4292	679	15194	11696	1625	1068	41569
Guillemot	0.046	0	51	24	299	266	16	0	0	0	60	21	10	748
Razorbill	0.047	. 0	(0	0	0	0	0	0	0	0	0	0	0
Puffin	0.043	0	(0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.059	12139	3786	16927	4730	0	5076	0	0	0	0	12013	15791	70463
Pink-footed Goose	0.058	0	(0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.055	0	(0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.048	0	(0	0	0	0	0	0	0	5116	. 0	0	5116
Lesser Black-backed Gull	0.057	. 0	(0	1184	1331	0	1324	0	0	0	0	0	3838
Great Black-backed Gull	0.062	4878	(0	0	0	0	0	0	2822	0	2414	7138	17252
Large gulls combined	0.060	16457	3080	13760	7606	4328	/1120	4303	0	3808	n	13030	22/178	93079

		Potential	TOTAL											
	Probability	number of	transits											
	of collision	transits	through											
	during	through	rotor-swept											
	single rotor	rotor-swept	area per											
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.068	528	1569	42692	13804	18672	28896	11095	20396	36409	14706	1602	0	190370
Kittiwake	0.054		0	0	666	4494	2144	4468	706	15816	12175	1691	1111	43270
Guillemot	0.049) (53	25	312	277	17	0	0	0	63	22	10	779
Razorbill	0.050) (0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.047		0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.062	12635	3941	17620	4924	0	5284	. 0	0	0	0	12505	16437	73346
Pink-footed Goose	0.061	C	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.058		0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.051	C	0	0	0	0	0	0	0	0	5325	0	0	5325
Lesser Black-backed Gull	0.060		0	0	1232	1386	0	1378	0	0	0	0	0	3995
Great Black-backed Gull	0.065	5077	. 0	0	0	0	0	0	0	2937	0	2512	7430	17957
Large gulls combined	0.062	17130	3206	14333	8011	4505	4298	4479	0	3964	0	13563	23398	96887

Table 3.2.3 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of collisions assuming an avoidance rate of 95%.

													TOTAL
	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	2			47	64				126	52			
Kittiwake	0									34			
										-			
Guillemot	0				1					(
Razorbill	0									(
Puffin	0		0	0	0) () 0	. 0	() () (l .
Herring Gull	42	13	57	15	0	16) 0	. 0	() 41	1 52	23
Pink-footed Goose	0) (. 0	Ċ) () (
Great Skua	ď									Č			
Little Gull	0									14			
Lesser Black-backed Gull	0									(
Great Black-backed Gull Large gulls combined	18 57	10								(
Neart na Gaoithe 73 x 6.15	5MW - 126												TOTAL
	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	Collisions per month with	COLLISIO S PER YEAR WITH
	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	avoidance rate 0.95	AVOIDANG E RATE O
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	1	100							95	39			
Kittiwake	0				9				33	25			
Guillemot	0									(
Razorbill										(
Puffin	0									(
lerring Gull	32		43	12	. 0	12) 0	0	() 31	1 39	17
Pink-footed Goose	0		0	0	0) () 0	0	() () (l .
Great Skua	d						Ò) 0		Ċ			
ittle Gull	0									10			
esser Black-backed Gull	Ö												
Great Black-backed Gull Large gulls combined	13 43									(
Neart na Gaoithe 73 x 6.15	5MW - 152												TOTAL
	Collisions	Collisions	Collisions per month	Collisions per month	Collisions	Collisions	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions	Collisions	COLLISION S PER
	per month with avoidance rate 0.95	per month with avoidance rate 0.95	with avoidance rate 0.95	with avoidance rate 0.95	per month with avoidance rate 0.95	per month with avoidance rate 0.95	with avoidance rate 0.95	with avoidance rate 0.95	with avoidance rate 0.95	with avoidance rate 0.95	per month with avoidance rate 0.95	per month with avoidance rate 0.95	YEAR WITH AVOIDANG E RATE OF
	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	with avoidance rate 0.95 Apr	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug	avoidance rate 0.95 Sep	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec	WITH AVOIDANG E RATE OF 0.95
Sannet	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	with avoidance rate 0.95 Apr	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug	avoidance rate 0.95 Sep	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec	WITH AVOIDANG E RATE O 0.95
Sannet	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	with avoidance rate 0.95 Apr	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug	avoidance rate 0.95 Sep	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec	WITH AVOIDANG E RATE O 0.95
Sannet Littiwake	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114	with avoidance rate 0.95 Apr	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug 51	avoidance rate 0.95 Sep 95 33	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec	WITH AVOIDAN E RATE O 0.95
Gannet Kittiwake Guillemot	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114	with avoidance rate 0.95 Apr 36	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug 51	avoidance rate 0.95 Sep 95 33	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 0 4 2	WITH AVOIDANG E RATE O 0.95
Gannet Cittiwake Guillemot Razorbill	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114	with avoidance rate 0.95 Apr	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74	with avoidance rate 0.95 Jul	avoidance rate 0.95 Aug 51 6 51	avoidance rate 0.95 Sep 95 33 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 0 0 0 0 0 0 0	WITH AVOIDANG E RATE O 0.95
Gannet Kittiwake Guillemot Razorbill Puffin	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114	with avoidance rate 0.95 Apr 36 1 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 5 51 0 0	avoidance rate 0.95 Sep 95 33 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WITH AVOIDANG E RATE O 0.95
Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 43	with avoidance rate 0.95 Apr 36 1 0 0 12	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 6 6 7 12	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 5 51 0 0	avoidance rate 0.95 Sep 95 33 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WITH AVOIDANG E RATE OI 0.95
Sannet Kittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose	with avoidance rate 0.95 Jan	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	with avoidance rate 0.95 Apr 36 1 1 0 0 12 0 12 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 0 0 12	with avoidance rate 0.95 Jul 28 30 30 30 30 30 30 30 30 30 30 30 30 30	avoidance rate 0.95 Aug 51 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WITH AVOIDANG E RATE OI 0.95
Cannet Cittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 32	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 12 2 0 0 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 0 0 0 12	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 6 51 6 0 7 0 8 0 8 0 9	avoidance rate 0.95 Sep 95 33 0 0 0 0 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 0.95 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	WITH AVOIDANG E RATE OI 0.95 49 8
Sannet Kittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Jul 28 3 3 4 5 6 6 6 7 7 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0	with avoidance rate 0.95 Oct 39 00 00 00 00 00 00 00 00 00 00 00 00 00	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WITH AVOIDANG E RATE OI 0.95 49 8
Gannet Cittiwake Suillemot Razorbill Fuffin Fuffin Furing Gull Furk-footed Goose Freat Skua Little Gull Lesser Black-backed Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 12 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun	with avoidance rate 0.95 Jul 28 33 33 33	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	WITH AVOIDANG E RATE OI 0.95 49 8
Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Guil Pink-footed Goose Great Skua Little Guil Lesser Black-backed Guil Great Black-backed Guil Large guils combined	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 0 7	with avoidance rate 0.95 Oct 39 00 00 00 00 00 00 00 00 00 00 00 00 00	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4	WITH AVOIDAN E RATE C 0.95
Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May	with avoidance rate 0.95 Jun 74 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 0 7	with avoidance rate 0.95 Oct	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4	WITH AVOIDANI E RATE O 0.95
Jannet (tittwake Sullemot Azzorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Jesser Black-backed Gull Jerset Black-backed Gull Jerset Black-backed Gull Jerset Black-backed Gull Jesser Black-backed Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 322 0 0 13 43	with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0.00 0.00 0.00 0.00 0.00 0.00 0.00	with avoidance rate 0.95 Apr 366 1 1 0 0 0 122 0 0 19 19 Collisions per month with	with with with with with with avoidance rate 0.95 May 49 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 744 4 0 0 122 0 0 0 122 0 0 0 10 10 Collisions per month with	with avoidance rate 0.95 Jul 28 S S S S S S S S S S S S S S S S S S S	avoidance rate 0.95 Aug 51 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 7 9 Collisions per month with	with avoidance rate 0.95 Oct 38 26 0 0 10 10 0 Collisions per month with	with avoidance rate 0.95 Nov	with with with with avoidance rate 0.95 Dec 4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WITH AVOIDAN E RATE O 0.95 45 17 TOTAL COLLISIO S PER YEAR WITH
Jannet (Cittiwake Suillemot Azzorbill Vuffin Herring Gull Inik-footed Goose Great Skua Little Gull esser Black-backed Gull erset Black-backed Gull arge gulls combined	with avoidance rate 9.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month	with avoidance rate 0.95 Mar 1144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 366 11 10 00 122 00 13 19 Collisions per month	with avoidance rate 0.95 May 49 9 1 0 0 0 0 1 11 Collisions per month	with avoidance rate 0.95 Jun 74 4 00 00 01 12 00 00 01 00 00 00 00 00 00 00 00 00 00	with avoidance rate 0.95 Jul 288 Collisions per month	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 7 9 Collisions per month	with avoidance rate 0.95 Oct 38 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Nov 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Dec 4 2 2 3 3 3 3 3 3 3 3 4 5 5 6 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6	WITH AVOIDAN E RATE O 0.95 44 17 TOTAL COLLISIO S PER YEAR WITH AVOIDAN
Sannet Sa	with avoidance rate 9.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb 2 2 3 3 4 4 5 5 6 6 6 6 7 7 7 8 8 8 Collisions per month with with avoidance	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 12 0 0 12 0 19 Collisions per month with avoidance rate 0.95	with avoidance rate 0.95 May 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 0 0 0 12 12 0 0 0 0 10 10 Collisions per month with avoidance rate 0.95	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0	avoidance rate 0.95 Sep 95 333 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95	with avoidance rate 0.95 Oct 38 26 (with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 4	WITH AVOIDAN E RATE O 0.95 44 17 TOTAL COLLISIO S PER YEAR WITH AVOIDAN
Jannet (Ittilwake suillemot tazorbill vuffin terring Gull ink-footed Goose reat Skua titte Gull esser Black-backed Gull erser gulls combined arge gulls combined leart na Gaoithe 75 x 6MV	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0.05 Mar 114 0.00 0.00 0.00 0.00 0.00 0.00 0.00	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 1 2 1 2 0 0 0 0 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 9 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Jun 74 4 0 0 0 12 12 0 0 0 10 10 Collisions per month with with with avoidance rate 0.95 Jun	with avoidance rate 0.95 Jul 28 S S S S S S S S S S S S S S S S S S S	avoidance rate 0.95 Aug 51 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 7 95 Collisions per month with avoidance rate 0.95 Sep	with avoidance rate 0.95 Oct 35 26 26 27 28 28 29 29 20 20 20 20 20 20	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 3 3 3 3 3 3 3 3 4 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	WITH AVOIDAN E RATE O 0.95 44 44 44 44 44 44 44 44 44 44 44 44 44
Jannet (ittliwake buillemot tazorbiil vuffin terring Gull ink-footed Goose Great Skua ittle Gull irnet Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 1146 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 6 6 6 7 12 7 12 7 12 7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 7 7 9 Collisions per month with avoidance rate 0.95 Sep 106	with avoidance rate 0.95 Oct 38 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 1	WITH AVOIDAN E RATE O 0.95 TOTAL COLLISION S PER YEAR WITH AVOIDAN E RATE O 0.95
Jannet (Cittiwake Sullemot Azzorbill Vuffin Herring Gull Herring Gull Hink-footed Goose Freat Skua Little Gull Jesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Aveart na Gaoithe 75 x 6MV Species Jannet Littliwake	with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan 2	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 433 0 0 0 0 355 Collisions per month with avoidance rate 0.95 Mar 126 0 0 0	with avoidance rate 0.95 Apr 366 1 1 0 0 0 122 0 0 19 0 0 19 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 744 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Jul 288 S S S S S S S S S S S S S S S S S S S	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95 Sep 106 37	with avoidance rate 0.95 Oct 38 26 (with avoidance rate 0.95 Nov 4 4 6 6 7 7 7 8 Collisions per month with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4	WITH AVOIDAN E RATE O 0.95 TOTAL COLLISIOS PER YEAR WITH AVOIDAN E RATE O 0.95
Sannet (tittiwake suillemot tazorbiil vuffin terring Gull inik-footed Goose freat Skua ittle Gull esser Black-backed Gull erser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV Species Sannet tittiwake suillemot	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 0 12 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 4 6 6 6 7 7 12 7 12 7 10 7 10 7 10 7 10 7 10 7	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Nov 2 3 3 3 3 3 4 Collisions per month with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4 2 2 3 3 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	WITH AVOIDAN E RATE O 0.95 4 TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE O 0.95
Sannet (tittiwake Suillemot Aazorbill Puffin Jerring Gull Pink-footed Goose Freat Skua Little Gull Sesser Black-backed Gull Freat Black-backed Gull Freat Black-backed Gull Aleart na Gaoithe 75 x 6MV Species Sannet (tittiwake Suillemot Razorbill	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 1144 0.00 0.00 0.00 0.00 0.00 0.00 0.00	with avoidance rate 0.95 Apr 366 1 1 0 0 0 122 0 0 19 Collisions per month with avoidance rate 0.95 Apr 40 40 11 11 11 11 11 11 11 11 11 11 11 11 11	with avoidance rate 0.95 May 49 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 744 4 0 0 0 0 0 122 0 0 0 100 Collisions per month with avoidance rate 0.95 Jun 835 0	with avoidance rate 0.95 Jul 288 S C C C C C C C C C C C C C C C C C C C	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95 Sep 106 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 0 0 0 0 10 10 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Nov Collisions per month with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec 4	WITH AVOIDAN E RATE O 0.95 4 TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE O 0.95 5 1
Sannet (Cittiwake Suillemot Aazorbill Vuffin Herring Gull Hink-footed Goose Great Skua Little Gull Esser Black-backed Gull Ersea Black-backed Gull Ersea Black-backed Gull Arge gulls combined Heart na Gaoithe 75 x 6MV Species Bannet Littliwake Suillemot Aazorbill Vuffin	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 333 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 () () () () () () () () () (with avoidance rate 0.95 Nov 2 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Dec 4	WITH AVOIDAN E RATE O 0.95 4 TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE O 0.95
Sannet (Cittiwake Suillemot Aazorbill Vuffin Herring Gull Hink-footed Goose Great Skua Little Gull Esser Black-backed Gull Ersea Black-backed Gull Ersea Black-backed Gull Arge gulls combined Heart na Gaoithe 75 x 6MV Species Bannet Littliwake Suillemot Aazorbill Vuffin	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 333 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 () () () () () () () () () (with avoidance rate 0.95 Nov 2 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Dec 4	WITH AVOIDAN E RATE O 0.95 4 TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE O 0.95
Sannet (tittiwake Suillemot Aazorbill Puffin Herring Gull Herring Gull Hink-footed Goose Great Skua Sesser Black-backed Gull Great Black-backed Gull Arge gulls combined Heart na Gaoithe 75 x 6MV Depecies Sannet (tittiwake Suillemot Razorbill Puffin Herring Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 1146 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 12 0 0 0 0 0 0 19 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Jul 288	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95 Sep 106 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 () () () () () () () () () (with avoidance rate 0.95 Nov Collisions per month with avoidance rate 0.95 Nov	with avoidance rate 0.95 Dec	WITH AVOIDAN E RATE O 0.95 4
Sannet Cittiwake Suillemot Azzorbill Vuffin Herring Gull Herring Gull Hink-footed Goose Great Skua Little Gull Lesser Black-backed	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with with with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 4 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 33 0 0 0 0 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95 Sep 106 37 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 35 26 () () () () () () () () () (with avoidance rate 0.95 Nov 2 2 3 3 3 3 3 Collisions per month with with avoidance rate 0.95 Nov 5 3 3 3 3 3 3 4 3 3 4 3 5 6 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	with avoidance rate 0.95 Dec	WITH AVOIDAN E RATE O 0.95 TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE O 0.95 11
Jannet (tittwake Sullemot Azzorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Jesser Black-backed Gull Jerset Black-backed Gull Jerset Black-backed Gull Jerset Black-backed Gull Jesser Black-backed Gull	with avoidance rate 0.95 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Apr 36 1 1 1 1 0 0 0 0 1 12 0 0 0 0 0 1 19 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 May 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	with avoidance rate 0.95 Jun 74 4 0 0 0 0 0 0 0 10 10 0 0 0 0 0 0 0 0 10 0 0 0	with avoidance rate 0.95 Jul 28	avoidance rate 0.95 Aug 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	avoidance rate 0.95 Sep 95 333 0 0 0 0 0 0 0 0 0 7 9 Collisions per month with avoidance rate 0.95 Sep 106 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	with avoidance rate 0.95 Oct 38 26 () () () () () () () () () (with avoidance rate 0.95 Nov 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	with avoidance rate 0.95 Dec 4 4 2 2 3 3 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	WITH AVOIDAN E RATE OI 0.95 49 8 177 1 1 4 23 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OI 0.95 19 19

Table 3.2.4 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of collisions assuming an avoidance rate of 98%.

Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Gannet	1	2							50				
Kittiwake	0	() (2	: 5	1	17	14	1 2	2 1	47
Guillemot	0	() () () (0	0) () 0	1
Razorbill	0) (. 0	0) () 0	0
Puffin	0												
lerring Gull	17												
ink-footed Goose	0								0				
Great Skua	0												
ittle Gull	0												
esser Black-backed Gull	0						_						
Great Black-backed Gull	7 23												
Large gulls combined	23	•	+ 18	, ,	, ,				J	,	J 10) 30	125
Neart na Gaoithe 73 x 6.15	5MW - 126												TOTAL COLLISION
	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	S PER
	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	YEAR
	with	with	with	with	with	with	with	with	with	with	with	with	WITH
	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	AVOIDANC
	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.98
Gannet	1	2	2 45	14	19	30	11	20	38	16	3 2	2 0	198
Cittiwake	0					_			13				
Guillemot	0												
Razorbill	0												
Puffin	0												
Herring Gull	13												
Pink-footed Goose	0												
Great Skua	0												
Little Gull	0												
Lesser Black-backed Gull	0		, ,	, 1	1 1	· ·	1	U					
	-												
arge gulls combined	5 17 5 MW - 152	3					. 4						94 TOTAL
.arge gulls combined Neart na Gaoithe 73 x 6.15	5MW - 152 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
arge gulls combined leart na Gaoithe 73 x 6.15	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
arge gulls combined leart na Gaoithe 73 x 6.15 Species Jannet	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198
arge gulls combined leart na Gaoithe 73 x 6.15 Species Jannet Littiwake	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 45	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36
arge gulls combined leart na Gaoithe 73 x 6.15 species Jannet Gittiwake Juillemot	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1
arge gulls combined leart na Gaoithe 73 x 6.15 species Sannet tittiwake suillemot tazorbill	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0
arge gulls combined leart na Gaoithe 73 x 6.15 species Bannet (tithwake Buillemott Bazorbiil Puffin	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 45	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	70TAL COLLISION SPER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0
arge gulls combined Veart na Gaoithe 73 x 6.15 Species Jannet (titiwake Jauliemot Razorbill Turffin	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 71
arge gulls combined Veart na Gaoithe 73 x 6.15 Species Gannet (titiwake Suillemot Razorbiil Puffin Herring Gull Pink-footed Goose Great Skua	5MW - 152 Collisions per month with avoidance rate 0.98 Jan 1 0 0 13	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 450 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 30 C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Jul 11 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Aug 20 1 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 71 0 0 0 0
Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	5MW - 152 Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 13130000000000000000000000000	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 30 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 71 0 0 4
arge gulls combined Neart na Gaoithe 73 x 6.15 Species Bannet Kithwake Sulliemot Razorbill Verfin Herring Gull Fink-footed Goose Great Skua Little Gull Sesser Black-backed Gull	Collisions per month with with avoidance rate 0.98 Jan 1 0 0 0 131 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 42 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with with avoidance rate 0.98 Apr	Collisions per month with with avoidance rate 0.98 May 19 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Jun 30	Collisions per month with avoidance rate 0.98 Jul 11 10 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov 6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with with avoidance rate 0.98 Dec 11 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 0 71 0 0 4 4 4
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lerser Black-backed Gull Large gulls combined	5MW - 152 Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 13130000000000000000000000000	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 450 C C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 30 C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct 16	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec : 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 10 0 71 1 0 0 4 4 18
Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 13 0 0 0 7 17	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 450 C C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 300 C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct 16	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec 166 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 0 71 0 0 71 4 18 94
Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 131 131 177 177 177 177 177 177 177 177	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Collisions per month with avoidance rate 0.98 Apr 14 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.98 May 19 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Jun 30 C C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Jul 11 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Aug 20 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct 16 11 () () () () () () () () ()	Collisions per month with avoidance rate 0.98 Nov 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Dec 0 1 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 30 0 0 0 4 4 4 4 18 94 TOTAL COLLISION S PER
Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 13 0 0 0 7 7 7 V Collisions per month with avoidance avoidance avoidance	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Collisions per month with avoidance rate 0.98 Apr 14 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Collisions per month with avoidance rate 0.98 May 19 COLLISIONS COLLISIONS COLLISIONS COLLISIONS COLLISIONS COLLISIONS COLLISIONS PER MONTH WITH AVOIDANCE COLLISIONS	Collisions per month with avoidance rate 0.98 Jun 30 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Collisions per month with avoidance rate 0.98 Jul 11 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Aug 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 4 Collisions per month with avoidance avoidance	Collisions per month with avoidance rate 0.98 Oct 16 11 10 11 11 11 11 11 11 11 11 11 11 11	Collisions per month with avoidance rate 0.98 Nov Collisions per month with a collisions per month with avoidance	Collisions per month with avoidance rate 0.98 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 366 1 0 0 71 0 0 4 4 4 4 4 7 TOTAL COLLISION SPER YEAR WITH AVOIDANC
arge gulls combined leart na Gaoithe 73 x 6.15 species Sannet Uttiwake Sannet Uttiwake Suillemot tazorbill Furfin Furfin Gull Fink-foote Goose Freat Skua ittle Gull Sreat Black-backed Gull Freat Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Feb 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Mar Collisions per month with a Collisions per month with avoidance rate 0.98 Collisions per month with avoidance	Collisions per month with avoidance rate 0.98 Collisions per month with a collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate o.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Jul 11 4 6 6 6 6 6 6 7 7 7 8 8 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month of the collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with a collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 O	Collisions per month with avoidance rate 0.98 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 0 4 4 4 18 94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
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arge gulls combined Neart na Gaoithe 73 x 6.15 Species Bannet (titiwake Bulliemot Azzorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Great Black-backed Gull Arge gulls combined Neart na Gaoithe 75 x 6MV	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Collisions per month with collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 33 2 30 30 30 30 4 Collisions per month with with avoidance rate 0.98 Jun 33 33 33	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep 38 133 00 00 00 33 4 Collisions per month with avoidance rate 0.98 Sep 42	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Oct	Collisions per month with Nov S 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 71 0 4 4 18 94 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.98 221
Arge gulls combined Neart na Gaoithe 73 x 6.15 Species Sannet (tittwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-backed Gull Lesser Black-backed Gull Arge gulls combined Neart na Gaoithe 75 x 6MV Species Sannet (tittwake	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar Solutions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May 22	Collisions per month with avoidance rate 0.98 Jun 30 COLLISIONS COLLISIONS COLLISIONS PER MONTH AVOIDANCE rate 0.98 Jun 33 34 35	Collisions per month with avoidance rate 0.98 Jul 111 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Aug 10 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 4 Collisions per month with avoidance rate 0.98 Sep 42 15	Collisions per month with avoidance rate 0.98 Oct 16 11 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.98 Nov Collisions Nov Collisions per month with avoidance rate 0.98 Nov Collisions Nov Collisions per month with avoidance rate 0.98 Nov Collisions Nov Collisions per month with avoidance rate 0.98 Nov Collisions Nov Collisions Per month with avoidance rate 0.98 Nov Collisions Nov Collisions Per month with avoidance rate 0.98 Nov Collisions Per month with a voidance rate 0.98 Nov Collisions Per month	Collisions per month with avoidance rate 0.98 0 1 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 3 1 1 0 0 0 71 71 0 0 4 4 4 4 18 94 TOTAL COLLISION SPER YEAR WITH AVOIDANC E RATE OF 0.98 221 40
Arge gulls combined Neart na Gaoithe 73 x 6.15 Species Jannet (tittwake Julilemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Jittle Gull Jerset Black-backed Gull Jerset Black-backed Gull Jerset Black-backed Gull Arge gulls combined Neart na Gaoithe 75 x 6MN Species Jannet (tittwake Julilemot	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 To collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month w	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 30 22 60 60 60 60 60 60 60 60 60 60 60 60 60	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug 23 1	Collisions per month with avoidance rate 0.98 Sep 38 133 00 00 00 00 00 00 00 00 00 00 00 00 0	Collisions per month with avoidance rate 0.98 Oct 16 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Collisions per month with Nov Collisions per month with a collisions per month Nov Collisions per month with Nov Collisions per month Nov Collisio	Collisions per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 10 0 71 0 0 4 4 4 18 94 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.98 221 40 11
arge gulls combined leart na Gaoithe 73 x 6.15 Species Bannet tittiwake Buillemot Razorbill Purfin Gull Pink-footed Goose Freat Skua tittle Gull arge gulls combined leart na Gaoithe 75 x 6MV Species Bannet tittiwake Bannet tittiwake Buillemot Razorbill	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May 22 4	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Jul Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul 13 Collisions per month with avoidance rate 0.98 Jul 13 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance 0.98 Collisions per month with avoidance 0.98 Collisions	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug 23 40 60 60 60 60 60 60 60 60 60	Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Sep 42 150	Collisions per month with avoidance rate 0.98 Oct 16 11 11 11 11 11 11 11 11 11 11 11 11	Collisions per month with avoidance rate 0.98 Nov Collisions Nov Collisions per month with avoidance rate 0.98 Nov Collisions	Collisions per month with avoidance rate 0.98 Dec	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 30 0 0 0 1 1 1 1 1 0 0 4 4 4 4 4 8 94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 221 40 1 1
arge gulls combined leart na Gaoithe 73 x 6.15 Species Sannet (tithwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Freat Skua tittle Gull arge gulls combined leart na Gaoithe 75 x 6MV Species Sannet (tithwake Suillemot Razorbill Agait Species Sannet (tithwake Stilliemot Razorbill Agait Species Razorbill Agait Species Razorbill Razor	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 45 0	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun Collisions per month with avoidance collisions per month with avoidance rate 0.98 Jun Collisions per month with avoidance rate 0.98 Jun 33 24 35 36 37 37 38 38 38 38 38	Collisions per month with avoidance rate 0.98 Jul 11 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Aug 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 133 0 0 0 0 0 0 4 Collisions per month with avoidance rate 0.98 Sep 42 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct (Collisions per month with avoidance rate 0.98 Oct (Collisions per month with with avoidance rate 0.98 Oct (Collisions Collisions (Collisions Collisions Per month with (Collisions Per mon	Collisions per month with avoidance rate 0.98 Nov Collisions per month with a voidance rate 0.98 Nov Collisions per month with avoidance rate 0.98 Nov Collisions per month with with Collisions per month Collisions	Collisions per month with avoidance rate 0.98 Dec 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 366 1 0 0 71 0 0 4 4 4 4 4 4 7 TOTAL COLLISION SPER WITH AVOIDANC E RATE OF 0.98 221 40 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
arge gulls combined Jeart na Gaoithe 73 x 6.15 Species Jannet (tittiwake Juliemot Jazorbill Juffin Jerring Gull Jink-footed Goose Great Skua Jittle Gull Jesser Black-backed Gull Jerset Black-bac	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan 10 00 00 01 13	Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jun 33	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul 13	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance not	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate o.98 Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Let a collision colli	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 1988 108 36 1 0 0 0 71 1 0 0 4 4 4 4 4 8 94 TOTAL COLLISION S PER 94 TOTAL COLLISION S PER YEAR AVOIDANC E RATE OF 0,98 221 40 1 1 0 0 7 7 9
arge gulls combined leart na Gaoithe 73 x 6.15 Species Bannet Gittiwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose Freat Skua tittle Gull asser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV Species Bannet Gittiwake Buillemot Razorbill Leart na Gaoithe 75 x 6MV Species Bannet Gittiwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar Collisions per month with with avoidance rate 0.98 Mar Collisions per month with with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr 14 Collisions per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Apr 16 Collisions per month with avoidance rate 0.98 Collisions per month with avoidan	Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun 30 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with 32 Collisions per month with 33 Collisions per month with 33 Collisions per month with 34 Collisions per month with 35 Collisions per month with 36 Collisions per month with 36 Collisions per month with 37 Collisions per month with 37 Collisions per month with 38 Collisions per month 38 Collisions per month with 38 Collisions per month 38	Collisions per month with avoidance rate 0.98 Jul Collisions per month with avoidance rate 0.98 Jul Collisions per month with avoidance rate 0.98 Jul 13 44 66 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68	Collisions per month with avoidance rate 0.98 Aug 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 4 Collisions per month with avoidance rate 0.98 Sep 42 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov Collisions per month with avoidance rate 0.98 Nov Collisions per month with with avoidance rate 0.98 Nov Collisions per month with collisions per mont	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 36 1 0 0 0 71 0 4 4 4 4 8 94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 221 40 0 0 0 0 79
arge gulls combined Neart na Gaoithe 73 x 6.15 Species Sannet (titiwake Sullemott Razorbill Porfin John Johoted Goose Great Skua Little Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Sannet (titiwake Sullemott Razorbill Verring Gull Neart na Gaoithe 75 x 6MV Species Sannet (titiwake Sullemott Razorbill Puffin Herring Gull Pink-Jooted Goose Great Skua	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 131 0 0 0 0 141 0 0 0 0 0 0 0 144 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 1.98 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 1.98 Collisions per month with avoidance rate 0.98 Jul 13 4 Collisions per month with avoidance rate 0.98 Jul 13 14 15 16 17 18 18 18 18 18 18 18 18 18	Collisions per month with avoidance rate 0.98 Aug 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Sep 42 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate o.98 Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Nov Collisions per month with avoidance rate 0.98 Nov Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 198 36 1 0 0 0 4 4 4 18 94 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.98 221 40 1 0 0 7 7 1 0 0 0 7 1 0 0 0 7 1 0 0 0 0
arge gulls combined Neart na Gaoithe 73 x 6.15 Species Sannet (tittwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-b	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 1 1 1 0 0 0 0 0 1 1 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 Collis	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98 Jun 33 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Jul 11 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Aug 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 13 0 0 0 0 0 0 0 3 4 Collisions per month with avoidance rate 0.98 Sep 42 15 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct 16 11 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.98 Nov 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.98	94 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 198 30 0 0 0 4 4 4 4 18 94 TOTAL COLLISION SPER YEAR WITH AVOIDANC E RATE OF 0.98 221 40 0 0 0 79 79 79 0 5
Species Gannet Kittiwake Guillemot Razorbill Plerring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 131 0 0 0 0 141 0 0 0 0 0 0 0 144 0 0 0 0	Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions May Collisions Per May 200 000 000 000 000 000 000 000 000 00	Collisions per month with avoidance rate 0.98 Jun Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jun 33 2 6 6 6 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul 11 Collisions per month with avoidance rate 0.98 Jul 13 Collisions per month with avoidance rate 0.98 Jul 13	Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Aug 23 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Sep 38 133 00 00 00 00 00 00 00 00 00 00 00 00 0	Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Oct	Collisions per month with Nov Collisions per month with avoidance rate 0.98 Collisions per month with 10 Collisions per month with 14 Collisions per month with 15 Collisions Nov Collisions per month with 16 Collisions per month with 16 Collisions per month with 17 Collisions Nov Collisions per month with 18 Collisions per month 18 Collisions per mo	Collisions per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec Co	94 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.98 198 366 1 0 0 71 0 4 4 4 4 4 4 4 4 7 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.98 221 40 1 0 0 79 0 0 79 0 0 5 4

Table 3.2.5 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of collisions assuming an avoidance rate of 99%.

Neart na Gaoithe 90 x 5MW	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99		Collisions per month with avoidance rate 0.99	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF								
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.99
Gannet	()	1 30	9	13	20	. 7	' 13	25	10	1		131
Kittiwake	()	0 0) () 2	1	2	2 0) 9	7	1	1	24
Guillemot	()	0 0) () 0	() () () (C	C) (0
Razorbill	()	0 0) () 0	() () () 0	C) (0
Puffin	()	0 0) () 0	() () () 0	C) (0
Herring Gull	8	3	3 11	3	3 0	3) () 0	C		3 10	47
Pink-footed Goose	()	0 0) () 0	() () () 0	C) (0
Great Skua	()	0 0) () 0	0) () () 0	C) (0
Little Gull	()	0 0) (0	() () () 0	3	C) (3
Lesser Black-backed Gull	()	0 0) 1	1	0) 1) 0	C) (2
Great Black-backed Gull	4	1	0 0) () 0	0) () () 2	C	2	: 5	12
Large gulls combined	11		2 9) 5	5 3	3	3	3 () 3	C	9) 15	63

Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99
Gannet	Jan	ren	1 23		May ' 10		-		Sep 19		NOV 1	Dec (99
Kittiwake	Ö		0 0) 2	1	2		. 7			i	18
Guillemot	d		0 0		0	Ó	0	i d	i d) (0
Razorbill	O	. (0 0) (0	0	0	0) () (0
Puffin	0	. (0 0) (0	0	0	0) () (0
Herring Gull	6		2 9) 2	2 0	2	. 0	0) 6	3 8	36
Pink-footed Goose	0	. (0 0) (0	0	0	0) () (0
Great Skua	0	. (0 0) () 0	0	0	0) () (0
Little Gull	0	. (0 0) (0	0	0	0		. 2	! () (2
Lesser Black-backed Gull	0	. (0 0) 1	1	0	1	0) () (2
Great Black-backed Gull	3	. (0 0) () 0	0	0	0	1	() 1	1 4	. 9
Large gulls combined	g		2 7	' 4	. 2	2	2		. 2) 7	7 11	47

Neart na Gaoithe 73 x 6.15MW - 126

Neart na Gaoithe 73 x 6.15	5MW - 152												TOTAL
Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	per month with	per month with avoidance rate 0.99	per mont with avoidanc rate 0.99	h per month with	per month with	per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99
Species Gannet	Jan	reb		Apr 23	May 7			Aug 6 1				Dec 1	99
Kittiwake	i	Ď	0	0	0	2	1	2	7	5	5 1		18
Guillemot	()	0	0	0	0	0	0		Ċ) () 0	0
Razorbill	()	0	0	0	0	0	0	0	C) () 0	0
Puffin	()	0	0	0	0	0	0	0	C) () 0	0
Herring Gull	(3	2	9	2	0	2	0	0	C) 6	8 6	36
Pink-footed Goose	()	0	0	0	0	0	0 (0	C) () (0
Great Skua	()	0	0	0	0	0	0 (0	C) () 0	0
Little Gull	()	0	0	0	0	0	0 (0	2	2 () 0	2
Lesser Black-backed Gull	()	0	0	1	1	0	1 () 0	C) () 0	2
Great Black-backed Gull	;	3	0	0	0	0	0	0 () 1	C) 1	1 4	9
Large gulls combined	9	9	2	7	4	2	2	2) 2	C) 7	7 11	47

Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	with avoidance rate 0.99	with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99
0	1								9	1	0	111
o o) () () () :	2	1 2	2 0	7	6	1	1	20
d) () () () () () () 0	0	0	0	0	0
0) () () () () () () 0	0	0	0	0	0
0) () () () () () () (0	0	0	0	0
7	' 2	2 10) 3	3 () ;	3 () (0	0	7	9	40
0) () () () () () () (0	0	0	0	0
0) () () () () () () (0	0	0	0	0
0) () () () () () () (0	2	0	0	2
0) () () 1	١ .	1 () .	1 0	0	0	0	0	2
3	3 () () () () () () (2	0	1	4	10
9) 2	2 8	3 4	:	2 :	2 2	2 0	2	0	8	13	52
	per month with avoidance rate 0.99 Jan	per month with avoidance rate 0.99 Jan 0 0 0 0	per month with avoidance rate 0.99 reb month with avoidance rate 0.99 reb month or arte 0.99 results of the control of the con	Per month with with avoidance rate 0.99	Def month with avoidance rate 0.99 Jan Feb Mar	Per month with avoidance rate 0.99 Feb	Per month with with avoidance rate 0.99 Jan Per month with avoidance rate 0.99 Teb Per month with avoidance rate 0.99 Teb Per month avoidance rate 0.99 Teb Per month with with with avoidance rate 0.99 Teb Per month with with with with avoidance rate 0.99 Teb Per month with with with with with avoidance rate 0.99 Jun 17 17 18 18 18 18 18 18	Per month with with with avoidance rate 0.99 Jan Per month with avoidance rate 0.99 Teb Per month with avoidance rate 0.99 Teb Per month with avoidance rate 0.99 Teb Per month with with with with with with with wi	Per month with with with avoidance rate 0.99	Per month with with avoidance rate 0.99 Feb	Per month with with with avoidance rate 0.99 Jan Per Per	Per month with with with with with with with wi

Table 3.2.6 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of collisions assuming an avoidance rate of 99.5%.

Neart na Gaoithe 90 x 5M\	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	with	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
Gannet	0				5 (3 10							
Kittiwake	0) () (0 .	1 .	1 1	1 (3 () (
Guillemot	0				0 (
Razorbill	0				0 (
Puffin	0				0 (
Herring Gull	4				2 (
Pink-footed Goose Great Skua	0				0 (
ittle Gull	0				0 (
esser Black-backed Gull	Ö				0 (
Great Black-backed Gull	2				0 (
arge gulls combined	6	1	1 5	5 :	3	1 .	1 1	1 () 1	() 4	1 7	
Neart na Gaoithe 73 x 6.15	MW - 126												TOTAL
	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	Collisions	COLLISION S PER
	per month	per month	per month	per month		per month	per month	per month	per month	per month	per month	per month	YEAR
	with	with	with	with	with	with	with	with	with	with	with	with	WITH
	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	AVOIDANC
	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.995
Sannet	0				4 :								
Kittiwake	0				0								
Guillemot	0				0 (
Razorbill Puffin	0				0 (
rumn Herring Gull	3				1 (
Pink-footed Goose	0				0 (
Great Skua	Ö				0 (
ittle Gull	0				0 (
esser Black-backed Gull	0) () () (0 () () () () () () () (1
		,											
Great Black-backed Gull	1	() () (0 () (
Large gulls combined	4	() () () () () 1	(3 24
arge gulls combined Neart na Gaoithe 73 x 6.18	GMW - 152 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
arge gulls combined leart na Gaoithe 73 x 6.15 species Jannet	6MW - 152 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50
arge gulls combined leart na Gaoithe 73 x 6.18 species Jannet tittiwake	6MW - 152 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 9
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Bannet Gittiwake Buillemot	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0
arge gulls combined leart na Gaoithe 73 x 6.18 species annet tittiwake buillemott tazorbiil	GMW - 152 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 0
arge gulls combined Neart na Gaoithe 73 x 6.15 Species Jannet (titiwake Juillemot Razorbill Puffin Herring Gull	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0 18
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Jannet (tithwake Juillemot Razorbill Puffin Herring Gull Fink-footed Goose	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 18 0 18
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Gannet (titiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 18 0 18
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Jannet Gittwake Juliemot Azazorbill Puffin Herring Gull Pink-footed Goose Great Skua	6MW - 152 Collisions per month with avoidance rate 0.995 Jan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Collisions per month with avoidance rate 0.995 Jul (1) (2) (3) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 1 18 0 0 1
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Bannet Kithwake Buillemot Razorbiill Puffin Herring Gull Fink-footed Goose Great Skua Little Gull Fisesser Black-backed Gull	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun (0.000) (0.	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 18 0 18 0 1
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Bannet (tittwake Buillemot Bazorbill Puffin Jerring Gull Pink-footed Goose Great Skua Litte Gull Lesser Black-backed Gull	GMW - 152 Collisions per month with avoidance rate 0.995 Jan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jun 1	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov 43 Grant Collisions Collis	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0 1 1 1 1 5
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Bannet Kittiwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with with avoidance rate 0.995 Jan 0 0 0 0 0 1 4 4	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 1	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov 43 Grant Collisions Collis	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 1 1 1 1 5 24 TOTAL
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lerser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MN	Collisions per month with with avoidance rate 0.995 Jan Collisions per month with with avoidance o.995 Collisions per month with avoidance	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Apr (1) (1) (1) (1) (2) (3) (3) (4) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Collisions per month with avoidance (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Collisions per month with avoidance rate 0.995 Aug 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance cate 0.995 Sep 100 Collisions per month with 11 Collisions per month with avoidance avoidance	Collisions per month with avoidance ()	Collisions per month with avoidance rate 0.995 Nov 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 1 1 1 1 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC
arge gulls combined Jeart na Gaoithe 73 x 6.18 Species Sannet Cittiwake Sullemot Azzorbill Puffin Jerring Gull Pink-footed Goose Freet Skua Jittle Gull Lesser Black-backed Gull Large gulls combined Jeart na Gaoithe 75 x 6MN Jeart na Gaoithe 75 x 6MN	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 6 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate o.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 18 18 0 0 11 15 524 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
arge gulls combined leart na Gaoithe 73 x 6.18 Species Bannet Gittitwake Buillemot Razorbill Puffin derring Gull Pink-footed Goose Freat Skua tittle Gull asser Black-backed Gull Great Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MN	Collisions per month with avoidance rate 0.995 Jan Collisions per month of the collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb (((((((((((((((((((Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0 18 0 0 11 15 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
arge gulls combined leart na Gaoithe 73 x 6.15 species Bannet tittiwake Buillemot tazorbill vuffin derring Gull ink-footed Goose Freet Skua tittle Gull sesser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MN species Bannet	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Sol	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Collisions per month with collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 10 Collisions per month with avoidance care 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct Collisions per month with with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with a collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 18 10 11 55 24 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.995 55
arge gulls combined leart na Gaoithe 73 x 6.18 Species Jannet Littiwake Juliemot Lazorbill Purfin dell Pink-footed Goose Freat Skua Little Gull Jesser Black-backed Gull Jerset Black-backed Gull Jesser Black-backed Gull	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan O O O O O O O O O O O O O	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance collisions per month with a collision collisions per month with a collision collision collision collisions per month with a collision coll	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions D	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 1 1 1 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55
arge gulls combined leart na Gaoithe 73 x 6.18 species bannet tittiwake buillemot tazorbill vuffin derring Gull ink-footed Goose reat Skua titte Gull esser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MN species bannet tittiwake buillemot builtimake builtima	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep Collisions per month with avoidance cate 0.995 Collisions per month with avoidance rate 0.995 Sep Collisions per month with avoidance rate 0.995 Sep 11	Collisions per month with avoidance rate 0.995 Oct Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Collisions per month with a collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 0 1 18 0 0 0 1 1 1 5 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55 10 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1
Arge gulls combined Neart na Gaoithe 73 x 6.18 Species Bannet Gittlwake Buillemot Bazorbiil Puffin Jerring Gull Pink-footed Goose Great Skua Little Gull Arge gulls combined Neart na Gaoithe 75 x 6MN Species Bannet Gittlwake Bannet Bazorbill	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan O O O O O O O O O O O O O O O O O O	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.996 Aug Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0 1 1 1 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55 10 0 0 0 0 1 1 1 1 5 5 1 1 1 1 5 5 1 1 1 1
arge gulls combined leart na Gaoithe 73 x 6.18 Species Sannet (tittiwake Suillemot Razorbill Puffin Herring Gull Inik-footed Goose Freat Skua tittle Gull arge gulls combined leart na Gaoithe 75 x 6MN Species Sannet Gittiwake Suillemot Razorbill Agait Species Sannet Gittiwake Suillemot Razorbill Freat Black-backed Razorbill Razorbi	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb Collisions per month with with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance cate 0.995 Collisions per month with with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance cate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month with a collisions cate 0.995 Collisions Collisions per month with a collision per month wi	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with with avoidance rate 0.995 Dec Collisions Dec Collisi	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 1 18 0 0 0 1 1 1 1 5 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
arge gulls combined leart na Gaoithe 73 x 6.18 species bannet tittiwake buillemot tazzorbill vuffin lerring Gull vink-footed Goose Great Skua tittle Gull sesser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species bannet tittiwake buillemot tazzorbill teart na Gaoithe 75 x 6MV	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan O O O O O O O O O O O O O O O O O O	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month of the collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
arge gulls combined leart na Gaoithe 73 x 6.18 Species Bannet Gittiwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose Freat Skua Hittle Gull arge gulls combined leart na Gaoithe 75 x 6MN Species Bannet Gittiwake Bannet Gittiwake Buillemot Razorbill Agare gulls combined	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with a collision per mon	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with July 1000 1000 1000 1000 1000 1000 1000 10	Collisions per month with avoidance rate 0.995 Aug Collisions per mon	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with with avoidance rate 0.995 Dec Collisions Dec Collisions per month with with avoidance rate 0.995 Dec Collisions	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 1 1 1 1 1 5 24 TOTAL COLLISION S PER VEAR WITH AVOIDANC E RATE OF 0.995 1 0 0 0 1 1 1 1 1 1 5 1 1 1 1 1 1 1 1
arge gulls combined Neart na Gaoithe 73 x 6.16 Species Gannet Gittiwake Gullemot Razorbill Porffin Jerring Gull Pink-footed Goose Great Skua Jittle Gull Jerrent Black-backed Gull Jerrent Black-backe	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with with avoidance rate 0.995 Jan Collisions per month with with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug Collisions per month wi	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions Nov Col	Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.995 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 TOTAL COLLISION S PER YEAR YEAR YEAR YEAR YEAR YEAR OF 0.995
arge gulls combined Neart na Gaoithe 73 x 6.18 Species Sannet (tittwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-b	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance collisions per month with a collision collision collision collisions per month with a collision collision collision collisions per month with a collision collis	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 1 1 1 1 5 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Species Gannet Kittiwake Guillemot Reazorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Carge gulls combined	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance o.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance o.995 Jan Collisions per month out o.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug Collisions per month with avoidance rate 0.995 Aug Collisions per month with with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 50 0 0 1 1 1 5 5 24 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 55 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

3.3 Results Year 2

Table 3.3.1 Densities of flying birds at Neart na Gaoithe development area between November 2010 and October 2011. Data gathered during ship-based surveys, see § 2.1.

	Density (birds/km2)											
Species		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet		.,				5.760	11.913			2.895		0.063
Kittiwake		J			_	0.259	2.125		_	0.836		6.602
Guillemot		J			•	0.712	0.322		•	0.064		0.189
Razorbill		J			•	0.194	0.000		•	0.772		0.063
Puffin		J				1.230	1.932		•	0.000		0.000
Herring Gull		J			•	0.194	0.000		•	0.000		0.063
Pink-footed Goose		J			_	0.000	0.000		_	0.000		0.000
Great Skua		J			_	0.000	0.000		_	0.000		0.000
Little Gull	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.382	0.000		0.000
Lesser Black-backed Gull		J			•	0.000	0.000		•	0.000		0.000
Great Black-backed Gull		J	0.000	0.000	_	0.065	0.000		_	0.000		0.063
Large gulls combined		J	J	0.000	_	0.259	000.0		_	0.000		0.126

Table 3.3.2 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of transits through the rotor-swept area.

	Probability	Potential	Potential number of	TOTAL transits										
	of collision		transits	through										
	during	through	through	through	through	through	through	through	through	through	through	through	through	rotor-swept
	single rotor	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	rotor-swept	area per
Species	crossing	area Jan	area Feb				area Jun			area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.079	1088	31726	7821	20010	101016	79282	165917	88934	66394	29747	0	525	646320
Kittiwake	0.062	587	1175	627	4937	8989	3084	25824	2994	2016	8537	0	60643	130269
Guillemot	0.055	78	35	67	597	243	200	92	51	0	13	0	32	1536
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.072	26026	8693	9280	0	0	17104	0	0	0	0	0	4271	71316
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.066	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.059	0	0	0	0	0	0	0	0	37223	0	0	0	40607
Lesser Black-backed Gull	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	0.075	2615	0	0	0	0	3436	0	0	2995	0	0	2574	12677
Large gulls combined	0.072	24699	7071	7549	0	0	18551	0	0	4042	0	0	6948	75119

Neart na Gaoithe 73 x 6.15MW - 126

	Probability	Potential number of	Potential number of	Potential number of	Potential number of	Potential number of	Potential number of	TOTAL transits						
	of collision		transits	transits	transits	transits	transits	transits	transits	transits	transits	transits		through
	during	through	through				through		through	through	through	through	through	rotor-swept
				rotor-swept										
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.079	824	24018	5921	15148	76473	60019	125605	67326	50263	22520	0	398	489288
Kittiwake	0.062	444	890	475	3738	6805	2335	19550	2266	1526	6463	0	45909	98619
Guillemot	0.055	59	27	50	452	184	151	69	39	0	10	0	24	1162
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.071	19703	6581	7025	0	0	12948	0	0	0	0	0	3233	53989
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.067	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.058	0	0	0	0	0	0	0	0	28179	0	0	0	30741
Lesser Black-backed Gull	0.069	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	0.075	1979	0	0	0	0	2601	0	0	2267	0	0	1949	9597
Large gulls combined	0.072	18698	5353	5715	0	0	14043	0	0	3060	0	0	5260	56868

Neart na Gaoithe 73 x 6.15MW - 152

		Potential	Potential	Potential	Potential	Potential	Potential	Potential	Potential	Potential	Potential	Potential	Potential	TOTAL
	Probability		number of		number of	number of	number of		number of	transits				
	of collision	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	through
	during	through	through	through	through	through	through	through	through	through	through	through	through	rotor-swept
	single rotor	rotor-swept	rotor-swept				rotor-swept						rotor-swept	area per
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.065	994	28974	7142	18274	92253	72404	151523	81219	60634	27167	0	480	590252
Kittiwake	0.051	536	1073	573	4509	8209	2816	23584	2734	1841	7797	0	55383	118969
Guillemot	0.046	71	32	61	545	222	183	84	46	0	12	0	29	1402
Razorbill	0.047	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.043	0	0	0	0	0	0	0	0	0	0	0	. 0	0
Herring Gull	0.059		7938	8475	0	0	15620	0	0	0	0	0	3900	65130
Pink-footed Goose	0.058	0	0	0	0	0	0	0	0	0	0	0	. 0	0
Great Skua	0.055		0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.048	0	0	0	0	0	0	0	0	33994	0	0	. 0	37085
Lesser Black-backed Gull	0.057		0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	0.062	2388	. 0	0	0	0	3138	. 0	0	2735	0	0	2351	11577
Large gulls combined	0.060	22556	6457	6894	0	0	16941	0	0	3691	0	0	6346	68603

		Potential	TOTAL											
	Probability	number of	transits											
	of collision	transits	through											
	during	through	rotor-swept											
	single rotor	rotor-swept	area per											
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec	YEAR
Gannet	0.068	1035	30159	7435	19022	96027	75367	157723	84542	63115	28278	0	499	614403
Kittiwake	0.054	558	1117	596	4693	8545	2932	24549	2846	1916	8116	0	57649	123836
Guillemot	0.049	74	34	63	568	231	190	87	48	0	13	0	31	1460
Razorbill	0.050	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.047	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.062	24741	8263	8822	0	0	16259	0	0	0	0	0	4060	67795
Pink-footed Goose	0.061	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.058	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.051	0	0	0	0	0	0	0	0	35385	0	0	0	38602
Lesser Black-backed Gull	0.060	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	0.065	2485	0	0	0	0	3267	0	0	2847	0	0	2447	12051
Large gulls combined	0.062	23479	6722	7176	0	0	17634	0	0	3842	0	0	6605	71410

Table 3.3.3 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of collisions assuming an avoidance rate of 95%.

Neart na Gaoithe 90 x 5M	W												
	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF							
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	4	106			331	257	531				C	-	
Kittiwake	2	2 3	-		23	8			5	23	C	158	
Guillemot	() (1	0) (0	C) 0	3
Razorbill	() (0	0	0) (0	C) 0	0
Puffin	() (0	0	0	0) (0	C) 0	0
Herring Gull	82				0	51	0) (0	C) 13	
Pink-footed Goose	(0	0	0) (0	C) 0	0
Great Skua	() () 0		0	0) (C) 0	0
Little Gull	() () 0	0	0	0	0) (92	0	C) 0	100
Lesser Black-backed Gull	() 0		0	0) (C		0
Great Black-backed Gull	9) 0	0	0	11) (C		
Large gulls combined	79) 22	2 23	0	0	55	0) () 12	0	C) 21	231
Neart na Gaoithe 73 x 6.1	5MW - 126												TOTAL

	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95		Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF						
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	3	80	20	49	250	194	401	210	165	75	0	1	1578
Kittiwake	1	. 2	! 1	10	18	6	49) 6	i 4	17	0	119	254
Guillemot	C) (0	1	0	(0) (0	0	0	0	3
Razorbill	C) (0	0	0	(0) 0	0	0	0	0	0
Puffin	C) (0	0	0	(0) 0	0	0	0	0	0
Herring Gull	62	20	21	0	0	38	0) 0	0	0	0	10	164
Pink-footed Goose	C) (0	0	0	(0) 0	0	0	0	0	0
Great Skua	C) (0	0	0	(0) 0	0	0	0	0	0
Little Gull	C) (0	0	0	(0) 0	68	0	0	0	75
Lesser Black-backed Gull	C) (0	0	0	(0) 0	. 0	0	0		0
Great Black-backed Gull	7	, c	0	0	0	8	0) 0	7	0	0	6	30
Large gulls combined	59	16	17	0	0	41	0) 0	9	0	0	16	174

Neart na Gaoithe 73 x 6.15	MW - 152												TOTAL COLLISION
	Collisions per month with avoidance rate 0.95	S PER YEAR WITH AVOIDANC E RATE OF											
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	3	80								75			1581
Kittiwake	1	1 2	1	I 10	18	6			. 4	17	C	119	254
Guillemot	C) () () 1	C) () 0	0) 0	3
Razorbill	C) () () 0	C) () 0	0) 0	0
Puffin	C) () () 0	C) () 0	0) 0	0
Herring Gull	62	2 20) 21	١ 0	C	38	C) () 0	0	C) 10	165
Pink-footed Goose	0) () () 0	C		C) () 0	0	C) 0	0
Great Skua	0) () () 0	C		C) () 0	0	C) 0	0
Little Gull	C) () () 0	C) () 69	0) 0	75
Lesser Black-backed Gull	C) () () 0	C) () 0	0) 0	0
Great Black-backed Gull	7	7 () () 0	C	. 8) () 7	0) 6	30
Large gulls combined	59	16	17	0	C	42	C) () 9	0		16	174

Neart na Gaoithe 75 x 6MV	v												TOTAL
	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	with avoidance rate 0.95	per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	COLLISION S PER YEAR WITH AVOIDANC E RATE OF						
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	3					217							1767
Kittiwake	1	1 3	3	1 11	20	7	56	. 6	i 4	19	0	135	
Guillemot	() () () 1	0	C	0		. 0	0	0		3
Razorbill	() () (0 0	0	C	0		0	0	0		0
Puffin	() () (0 0	0	C	0		0	0	0		0
Herring Gull	68	3 22	24	1 0	0	43	0		0	0	0	11	183
Pink-footed Goose	() () (0 0	0	C	0		0	0	0		0
Great Skua	() () (0 0	0	C	0		0	0	0		0
Little Gull	() () (0	0	C	0		78	0	0		85
Lesser Black-backed Gull	() () (0	0	C	0		. 0	0	0		0
Great Black-backed Gull	7	, () (0	0	g	0		. 8	. 0	0	7	34
Large gulls combined	65	5 18	3 20	0	0	47	0	Ċ	10	0	0	18	193

Table 3.3.4 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of collisions assuming an avoidance rate of 98%.

State	Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Salement 0 0 1 1 1 1 1 1 1 1	Gannet													
Part	Kittiwake													
Semeng Guld														
Interfaced Goode														
Part														
Part														
Part														
Search na Gaolithe 73 x 6.15MW - 126 18 18 18 18 18 18 18 1														
Collisions Col	Large gulls combined	31	9	9) (0 0) 22		0	5	() (8 0	92
Collisions Col	Neart na Gaoithe 73 x 6.15	5MW - 126												
Part												per month		S PER YEAR
Sammet		avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	AVOIDANC
September Collisions Coll	Species	Jan												
Subtlement	Gannet													
March Marc	Kittiwake													
Separation														
Internal Column C														
interfolded Goose 0 0 0 0 0 0 0 0 0														
Seed Skula														
Interest														
Part	ittle Gull													
Reart na Gaoithe 73 x 6.15MW - 152 Reart na Gaoithe 75 x 6.15MW - 152 Reart na	esser Black-backed Gull	0	0) 0) () 0	0			0	() (0	
Part Collisions Collision	Great Black-backed Gull													
Collisions Col	Large gulls combined	24	. 6	,) 0	1/	·		4	. () () 6	69
Sittliwake 0 1 1 1 4 7 2 2 20 2 2 7 0 48 102 Sample of the Collisions of Collisions	N													
Suillemot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species	Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	per month with avoidance rate 0.98	COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Nazarohill	Species Sannet	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Putfling	ipecies Sannet Uttiwake	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May) 100	per month with avoidance rate 0.98 Jun 78	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102
Iterring Gull	Species Bannet Gittiwake Buillemot	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 8	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 1 100 4 7	per month with avoidance rate 0.98 Jun 78	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1
Prince Collisions Collisions Collisions Prince Collisions Collisions Prince Collisions Col	Species Jannet (ittiwake Julilemot Hazorbili	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 78	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 1
Streat Skua 0 0 0 0 0 0 0 0 0	Species Bannet Kittiwake Buillemot Razorbiil Puffin	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 100 4 7 0 0 0	per month with avoidance rate 0.98 Jun 78	per month with avoidance rate 0.98 Jul 161 20	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 2 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec 11	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0
Part	Species Jannet Kittiwake Jaulilemot Kazorbili Puffin derring Gull	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 78 2 0 0 15	per month with avoidance rate 0.98 Jul 161 20 0 0	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 2 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION SPER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 1 0 0 66
Parent la Black-backed Gull	Species Bannet (tittwake Buillemot Razorbill Puffin Herring Gull	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 100 4 7 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 2 0 0 0 15	per month with avoidance rate 0.98 Jul 161 20 0	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 1 0 0 66 6 0
Reart na Gaoithe 75 x 6MW	Species Bannet Kittiwake Buillemot Razorbill Purfin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 100 4 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 2 0 0 0 0 0 15	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 66 0 0 0 0 0 30
Collisions per month whith avoidance rate 0.98 rate 0.99 race 0.99	Species 3annet (tittiwake Suillemot Razorbill -Vuffin -lerring Gull -ink-footed Goose Great Skua Little Gull	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb 32 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	per month with avoidance rate 0.98 Mar 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 3 20 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 20 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 84 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0 0 27	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec 11	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 66 0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0
Collisions per month per month with avoidance rate 0.98 page 1 1 2 2 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 1 2 2 1 2 2 1 1 2 2 1 2 2 1 1 2 2 2 1 1 2 2 1 2 2 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	Species Sannet (titiwake Suillemot Azazorbill Puffin Jerring Gull Pink-fooled Goose Great Skua Litte Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb 32 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 3 20	per month with with avoidance rate 0.98 May 100 100 100 100 100 100 100 100 100 10	per month with avoidance rate 0.98 Jun 78 2 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 20 00 00 00 27 00 3	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 666 0 0 0 30 0 0 1 12
Avoidance Avoi	Species Gannet Kittiwake Guillemot Razorbill Puffin Petring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 3 20 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	per month with with avoidance rate 0.98 May 100 100 100 100 100 100 100 100 100 10	per month with avoidance rate 0.98 Jun 78 2 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 20 00 00 00 27 00 3	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 666 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Species Gannet Kittiwake Guillemot Razorbill Puffin Petring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32	per month with avoidance rate 0.98 Mar 2 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May 1000 4 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 84 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 30 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec 1 4 480 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 6.33 1.02 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sannet 1 35 9 22 112 87 180 95 73 33 0 1 707 (Itilitiwake 1 1 1 1 4 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 4 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 4 8 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 4 8 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 4 8 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 1 1 1 4 8 8 3 23 3 2 8 0 54 115 (Itiliwake 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Species Sannet (tittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua tittle Gull Gresse Black-backed Gull Great Black-backed Gull arge gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32 0 0 0 0 0 8 0 0 0 0 0 7 Collisions per month with with with avoidance	per month with avoidance rate 0.98 Mar 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Apr 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 10	per month with avoidance rate 0.98 Jul 161 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 30 000 000 000 000 000 000 000 000 000	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 100 66 00 00 102 70 TOTAL COLLISION S PER YEAR WITH AVOIDANC
ititiwake 1 1 1 4 8 3 23 3 2 8 0 54 115 buillemot 0 <td< td=""><td>Species Jannet Altiwake Juliemot Azzorbill Puffin Herring Gull Pink-footed Goose Freat Skua Jittle Gull Jesser Black-backed Gull Jeret Black-backed Gull Jeret Black-backed Gull Arge gulls combined</td><td>Collisions per month with avoidance rate 0.98</td><td>per month with avoidance rate 0.98 Feb 32 1 0 0 0 0 0 0 0 0 0 7 Collisions per month with avoidance rate 0.98</td><td>per month with avoidance rate 0.98 Mar 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>per month with avoidance rate 0.98 Apr 20 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td><td>per month with avoidance rate 0.98 May 100 1 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>per month with avoidance rate 0.98 Jun 78 2 2 2 0 0 0 15 0 0 0 17 17 Collisions per month with avoidance rate 0.98</td><td>per month with avoidance rate 0.98 Jul 161 20 00 00 00 00 00 00 00 00 00 00 00 00</td><td>per month with avoidance rate 0.98 Aug 22 Collisions per month with avoidance rate 0.98</td><td>per month with avoidance rate 0.98 Sep 66 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>per month with avoidance rate 0.98 Oct 30 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>per month with avoidance rate 0.98 Nov (7) (7) (7) (7) (7) (7) (7) (7</td><td>per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98</td><td>COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td<>	Species Jannet Altiwake Juliemot Azzorbill Puffin Herring Gull Pink-footed Goose Freat Skua Jittle Gull Jesser Black-backed Gull Jeret Black-backed Gull Jeret Black-backed Gull Arge gulls combined	Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Feb 32 1 0 0 0 0 0 0 0 0 0 7 Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Mar 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Apr 20 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	per month with avoidance rate 0.98 May 100 1 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 2 2 2 0 0 0 15 0 0 0 17 17 Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 161 20 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Aug 22 Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Sep 66 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	per month with avoidance rate 0.98 Oct 30 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	per month with avoidance rate 0.98 Nov (7) (7) (7) (7) (7) (7) (7) (7	per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sullemot 0<	Species Gannet Cittiwake Julilemot Azazorbili Puffin Jerring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-backed Gull Lesser gulls combined Aleart na Gaoithe 75 x 6MV Species	Collisions per month with avoidance rate 0.98 Jan 10 00 00 255 00 00 33 24 V Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 10	per month with avoidance rate 0.98 Jul 161 202 C C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Aug 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 20 0 0 0 0 277 0 3 3 4 Collisions per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 66 0 0 30 0 12 70 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Nazorbil 0 0 0 0 0 0 0 0 0	Species Jannet Cittiwake Jannet Cittiwake Jaullemot Lazorbill Furffin Jerring Gull Fink-footed Goose Freat Skua Little Gull Lesser Black-backed Gull Jerest Black-backed Gull Jerest Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Jannet	Collisions per month with avoidance rate 0.98 V Collisions per month with avoidance rate 0.98 Jan 1 Collisions per month with avoidance rate 0.98 Jan 1	per month with avoidance rate 0.98 Feb 32	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Jun 87	per month with avoidance rate 0.98 Jul Collisions per month with with avoidance rate 0.98 Jul 180	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 66 2 2 0 0 0 0 0 27 3 4 Collisions per month with avoidance rate 0.98 Sep 73	per month with avoidance rate 0.98 Oct 30 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 6 66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Jerring Gull 27 9 10 0 0 17 0 0 0 0 4 73 vink-footed Goose 0 <	Species Bannet Uttitwake Buillemot Razorbill Puffin Furfing Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-ba	Collisions per month with avoidance rate 0.98 V Collisions per month with avoidance rate 0.98 Jan 1 Collisions per month with avoidance rate 0.98 Jan 1 1 1 1	per month with avoidance rate 0.98 Feb 32	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May 112 4 8	per month with avoidance rate 0.98 Jun 0 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 222 223	per month with avoidance rate 0.98 Aug 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0 0 0 277 277 277 3 4 Collisions per month with avoidance rate 0.98 Sep 73 2 0 0	per month with avoidance rate 0.98 Oct 33 Collisions per month with avoidance rate 0.98 Oct 33 Collisions per month with 34 Collisions per month with 35 Collisions per month with 36 Collisions 25 Co	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 6.33 10.2 1 0 0 6.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Pink-Folded Goose 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species Jannet (ittiwake Juliemot Azzorbill Puffin Jerring Gull Pink-footed Goose Freat Skua Little Gull Lesser Black-backed Gull Lesser Black-bac	Collisions per month with avoidance rate 0.98 Jan 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 322 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 20 40 60 60 60 60 60 60 60 60 60 60 60 60 60	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 0 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 161 222 C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Aug 84 C C C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Sep 66 20 00 00 277 00 34 Collisions per month with avoidance rate 0.98 Sep 73 00 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance 0.98 Oct 30 Collisions per month with avoidance 0.98 Oct 30	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec Collisions D	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Great Skua 0	Species Jannet (tittwake Julilemot Azazorbill Puffin Jerring Gull Pink-footed Goose Freat Skua Little Gull Lesser Black-backed Gull Lesser Black-b	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 255 0 0 0 0 0 0 33 24 V Collisions per month with with avoidance rate 0.98 Jan 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr Apr Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Apr 22 4 6 7 7 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 161 202 COLUMN COLU	per month with avoidance rate 0.98 Aug 84 C C C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Sep 66 20 00 00 00 00 277 03 34 Collisions per month with with avoidance rate 0.98 Sep 73 22 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Oct 30 Collisions per month with with avoidance rate 0.98 Oct 30 Collisions per month with 30 Col	per month with avoidance rate 0.98 Nov (7) (8) (9) (9) (9) (9) (9) (9) (9	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 666 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ititle Gull 0 0 0 0 0 0 0 0 31 0 0 34 esser Black-backed Gull 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species Jannet Cittiwake Juliemot Azzorbili Puffin Jerring Gull Jink-footed Goose Freat Skua Jittle Gull Lesser Black-backed Gull Jarge gulls combined Neart na Gaoithe 75 x 6MV Species Jannet Cittiwake Juliemot Juliem	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 322 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar Collisi	per month with avoidance rate 0.98 Apr 20 40 60 60 60 60 60 60 60 60 60 60 60 60 60	per month with avoidance rate 0.98 May 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 78 0 0 0 0 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 1611 202 C C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Aug 84 Collisions per month with avoidance rate 0.98 Aug 95 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Sep 66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct (1) (2) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
esser Black-backed Gull 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species Gannet (titiwake Guillemot Azazorbill Puffin Perring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-b	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 255 0 0 0 0 0 0 245 V Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr 20 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 161 202 COLUMN COLU	per month with avoidance rate 0.98 Aug 84 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 66 20 00 00 277 03 34 Collisions per month with avoidance rate 0.98 Sep 73 22 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance rate 0.	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 666 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Great Black-backed Gull 3 0 0 0 0 4 0 0 3 0 0 3 13	Species Sannet Kittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Sannet Kittiwake Suillemot Razorbill Petring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Feb 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 8	per month with avoidance rate 0.98 Apr 20 40 60 60 60 60 60 60 60 60 60 60 60 60 60	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul Collisions per month with avoidance rate 0.98 Jul 186 22 Collisions per month with avoidance rate 0.98 Jul 186 Collisions per month with avoidance rate 0.98 Jul 186 Collisions per month with avoidance rate 0.98 Jul 186 Collisions July 186 Collisio	per month with avoidance rate 0.98 Aug 84 Collisions per month with avoidance rate 0.98 Aug 95 Collisions per month with avoidance rate 0.98 Collisions of Collisions per month with avoidance rate 0.98 Collisions of Collisions per month with avoidance rate 0.98 Collisions of Collisions per month with avoidance rate 0.98 Collisions of Collisions of Collisions of Collisions per month with avoidance rate 0.98	per month with avoidance rate 0.98 Sep 66 20 0 0 0 27 0 33 4 Collisions per month with avoidance rate 0.98 Sep 73 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 3(per month with avoidance rate 0.98 Nov Collisions N	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 633 102 700 666 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull	Collisions per month with avoidance rate 0.98 Jan 1000 000 000 000 000 000 000 000 000 0	per month with avoidance rate 0.98 Feb 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Mar 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 161 202 Collisions per month with avoidance rate 0.98 Jul 180 Collisions per month with avoidance rate 0.98 Jul 180 222 COLUMN COLU	per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Aug Good Good Good Good Good Good Good Goo	per month with avoidance rate 0.98 Sep 66 20 00 00 277 00 33 44 Collisions per month with avoidance rate 0.98 Sep 73 20 00 00 00 00 00 01 01 01 01 01 01 01 01	per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance rate 0.98 Oct 30 Collisions	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH OUT OF THE PROPERTY
ango gano combined 20 / 0 0 0 19 0 0 4 0 0 / //	Species Gannet Kittiwake Guillemot Razorbill Puffin Perring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Perring Gull Perring Gull Perring Gull Perring Gull Lesser Black-backed Guld Lesser Black-backed Guld Lesser Black-backed Guld	Collisions per month with avoidance rate 0.98 V Collisions per month with avoidance rate 0.98 Jan 1 1 0 0 0 0 0 1 1 0 0 0 255 0 0 0 0 1 1 1 0 0 0 27 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb 32	per month with avoidance rate 0.98 Mar Collisions per month with with avoidance rate 0.98 Mar Solution of the collision of th	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Graph Graph	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Local Collisions per month with with 23 Collisions per month with 24 Collisions per month with 25 Collisions per month 25 Co	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Aug 95	per month with avoidance rate 0.98 Sep 66	per month with avoidance rate 0.98 Oct 33 Collisions per month with with avoidance rate 0.98 Oct 34 Collisions per month with 35 Collisions per month with 36 Collisions per month with 36 Collisions per month with 37 Collisions per month with 37 Collisions per month with 38 Col	per month with avoidance rate 0.98 Nov (7) (8) (9) (9) (9) (9) (9) (9) (9	per month with avoidance rate 0.88 Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 6.33 10.2 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3
	Species Gannet Kittiwake Guillemot Razorbill Puffin Puffin Perring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Puffin Perring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lerge gulls combined	Collisions per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr 20 20 20 20 20 20 20 20 20 20 20 20 20	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May 1124 88 May 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 161 COMMISSIONS PER MONTH TO THE PROPERTY OF THE PROPE	per month with avoidance rate 0.98 Aug 84 Collisions per month with avoidance rate 0.98 Aug 95 Collisions per month with avoidance rate 0.98 Collisions per mont	per month with avoidance rate 0.98 Sep 66 2 0 0 0 0 0 0 277 0 3 4 Collisions per month with avoidance rate 0.98 Sep 73 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 30 Collisions per month with avoidance 20 Collisions per month with avoidance 20 Collisions per mon	per month with avoidance rate 0.98 Nov (7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH O

Table 3.3.5 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of collisions assuming an avoidance rate of 99%.

Neart na Gaoithe 73 x 6.15MW - 126

Neart na Gaoithe 90 x 5M\	N												
Q	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF							
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.99
Gannet	1	1 2	1	5 13	66	51			i 44	20	C	, 0	419
Kittiwake	()	1	0 3	3 5	. 2	2 13	1	1	5		32	67
Guillemot	()	0	0 () 0) 0	C) 0	0		, 0	1
Razorbill	()	0	0 () () 0	C) (0	C) (0
Puffin	()	0	0 () () 0	C) (0	C) (0
Herring Gull	16	3	5	6 () 0	10) 0	C) 0	0) 3	44
Pink-footed Goose	()	0	0 () 0) 0	C) 0	0) 0	0
Great Skua	()	0	0 () 0) 0	C) 0	0) (0
Little Gull	()	0	0 () 0) 0	C) 18	0) 0	20
Lesser Black-backed Gull	()	0	0 () 0) 0	C) 0	0) (0
Great Black-backed Gull	2	2	0	0 () 0	. 2	2 0	C) 2	0) 2	. 8
Large gulls combined	16	3	4	5 () 0	11	0	C) 2	0) 4	46

Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99
Species Gannet	Jan	гев I 16		Apr 4 10	May 50			Aug 42	Sep 33) (
Kittiwake	,		, -	+ 10	, ,		1 10		. 33	' 13) 24	
			, ,		_ 4							. 24	31
Guillemot	() () () () () () () (() () 1
Razorbill	() () () () () () () 0		() (0
Puffin	() () () () () () () () (0
Herring Gull	12	2 4		4 () (в () () 0) 2	33
Pink-footed Goose	() () () () () () () () (0
Great Skua	() () () () () () () 0) (0
Little Gull	() () () () () () () 14		() (15
Lesser Black-backed Gull	() () () () () () () 0) (0
Great Black-backed Gull	1	1 () () () (2 () () 1	C) 1	6
I arge gulls combined	12	2 :	3 :	3 () (3 () () 2) 3	35

Neart na Gaoithe 73 x 6.15	5MW - 152												TOTAL
Species	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99
Species Gannet	Jan	Feb	Mar	Apr 4 1	May 10 5	Jun 50 3	Jul 9 80	Aug 42	Sep 33		Nov	Dec 0	
Kittiwake	Ċ)	0	2	4	1 10			3	Č	24	
Guillemot	Ċ))	0	0	0	0 0) () 0	Ċ	C) 0	1
Razorbill	())	0	0	0	0 () () 0	C) 0	0
Puffin	())	0	0	0	0 () () (C) 0	0
Herring Gull	12	2 .	4	4	0	0	8 () () (C) 2	33
Pink-footed Goose	())	0	0	0	0 () () (C	C) 0	0
Great Skua	())	0	0	0	0 () () 0	C) 0	0
Little Gull	())	0	0	0	0 () () 14	C) 0	15
Lesser Black-backed Gull	())	0	0	0	0 () () 0	C	C) 0	0
Great Black-backed Gull	1	1)	0	0	0	2 () () 1	C) 1	6
Large gulls combined	12	2	3	3	0	0	8 () () 2	C) 3	35

Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0,99
Gannet	Jan	18		1 1:	1 5					17) (
Kittiwake	Ċ) 1			2	1	1 11	1	1	4		27	
Guillemot	č				0 1					Ċ) [
Razorbill	Ċ) () ()	0) () (Ċ			0
Puffin	č) () (0) (, o		Č) (0
Herring Gull	14	. 4	1 .	5 () (9 0	0		Ċ	Ò) 2	37
Pink-footed Goose	C) () () (0 () () (0		Ċ) () (0
Great Skua	C) () () (0 () () (0		C) () (0
Little Gull	C) () () (0 () () (0	16	C) () (17
Lesser Black-backed Gull	C) () () (0 () () (0		C) () (0
Great Black-backed Gull	1) () (0 () :	2 0	0	. 2	C) () 1	7
Large gulls combined	13	3 4	1 4	1 (0 () !	9 0	0	. 2	C) () 4	39

Table 3.3.6 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of collisions assuming an avoidance rate of 99.5%.

Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
Gannet	C				7 33								209
Kittiwake	C				1 2					. 2			
Guillemot	C		0 (0 (
Razorbill Puffin	0		0 (0 (
Herring Gull	8		3 :		0 (22
Pink-footed Goose	d		0 (0 (
Great Skua	Ċ) (0 (0	0 () () () () C) () (0
ittle Gull	C) (0 (0	0 () () () () 9) () (10
esser Black-backed Gull	C		0 (0 (
Great Black-backed Gull Large gulls combined	1		0 (0 (
Neart na Gaoithe 73 x 6.15	6MW - 126												TOTAL
	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	with	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.995
Gannet	0		8 2		5 25								
Kittiwake	C				1 2								
Guillemot	C				0 (
Razorbill	C		0 (0 (
Puffin	0		0 (0 (0 16
Herring Gull Pink-footed Goose	0		0 (0 (
Great Skua	Č		0 (0 (
ittle Gull	C		0 (0 (7
esser Black-backed Gull	C		0 (n	0 () () () () (0
		'			υ ι) () (
Great Black-backed Gull arge gulls combined	1 6		0 (0	0 (0) 1) () 1	() () 1	3
Great Black-backed Gull Large gulls combined	1 6		0 (0 2	Collisions per month with) 1) () 1	() () 1	3 17
Great Black-backed Gull arge gulls combined	5MW - 152 Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	TOTAL COLLISION S PER YEAR WITH AVOIDANC
Great Black-backed Gull arge gulls combined Neart na Gaoithe 73 x 6.18 Species Jannet	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158
Great Black-backed Gull arge gulls combined Veart na Gaoithe 73 x 6.15 Species Jannet Gittiwake	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25
Great Black-backed Gull arge gulls combined Neart na Gaoithe 73 x 6.18 Species Jannet Cittiwake Jauliemot	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0
Great Black-backed Gull Large gulls combined Veart na Gaoithe 73 x 6.15 Species Sannet Kittiwake Sulliemot Razorbill	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0
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Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Jannet Guithwake Juillemot Razorbill Puffin Herring Gull Fink-footed Goose	GMW - 152 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 May 5 1 22 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Jun 5 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	3 17 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 255 0 0 0 16 16
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 5 25 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 1 2 2 1 2	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul 46	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	3 17 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0 0 16 0 16 0 0
Great Black-backed Gull Large gulls combined Veart na Gaoithe 73 x 6.15 Species Gannet Kithwake Gullemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 1 25 1 2 5 1	Collisions per month with avoidance rate 0.995 Jun 15 2 15 3 16 4 16 6 16 6 16 7 17 7 18 7 18 7 18 7 18 7 18 7 18 7 18	Collisions per month with avoidance rate 0.995 Jul 40	Collisions per month with avoidance rate 0.995 Aug 21 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 17 C C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0 0 0 16 6 0 0 7
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Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Sannet Kittiwake Suillemot Razorbill Puffin Lerring Gull Pink-footed Goose Great Skua Little Gull Reaser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MN Species Sannet Kittiwake Guillemot Razorbill Puffin Lerring Gull	V Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb Collisions per month with with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with a collision per month with	Collisions per month with avoidance rate 0.995 Jul 40 Collisions per month with avoidance rate 0.995 Jul 40 Collisions per month with with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Jul 45 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance	Collisions per month with avoidance rate 0.995 Collisions per month with a collision per month with a collis	Collisions per month with avoidance rate 0.995 Sep 17 00 00 00 00 00 11 11 Collisions per month with with avoidance rate 0.995 Sep 18 00 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with Collisions per mont	Collisions per month with avoidance rate 0.995	3 177 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0 0 16 0 0 7 0 3 177 TOTAL COLLISION S PER YEAR WITH COLLISION S PER WITH YEAR WITH 0.995 177 29 0 0 0 18
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Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Jannet Kittiwake Jullemot Razorbill Jerring Gull Jerrink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Less	V Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Jun Collisions per month with with avoidance rate 0.995 Jun Collisions per month with with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul 40 Collisions per month with avoidance rate 0.995 Jul 40 Collisions per month with with with Jul 45 Collisions per month with with avoidance rate 0.995 Jul 45 Collisions per month with with with avoidance rate 0.995 Jul 45 Collisions per month with with with with with with with avoidance rate 0.995 Jul 45 Collisions per month with with with with with with with wi	Collisions per month with avoidance rate 0.995 Aug Collisions per month with collisions per month with collisions per month with with collisions per month collisions per month with collisions per month with collisions per month collisions per month collisions per month with collisions per month collisions per month collisions per month with collisions per month collisions per month with collisions per month collisio	Collisions per month with avoidance rate 0.995 Sep 17 00 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with Collisions per mont	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	3 177 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0 0 16 0 0 3 177 TOTAL COLLISION S PER YEAR WITH O 0 0 0 1 16 0 0 0 0 0 16 16 0 0 0 0 17 0 0 0 0 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Jannet Cittiwake Juliemot Lazorbill Perring Gull Jenering G	V Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with with avoidance rate 0.995 Jan Collisions per month with collisions per	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun 22 2 1 3 1 4 1 5 1 6 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	Collisions per month with avoidance rate 0.995 Jul 40 5 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct Collisions per month with avoidance rate 0.995 Oct Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 De COLLISIONS PER month with avoidance rate 0.995 Collisions per month with with avoidance rate 0.995 De COLLISIONS PER month with avoidance rate 0.9	3 177 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 158 25 0 0 0 16 0 0 7 7 0 3 3 177 TOTAL COLLISION S PER WITH COLLISION S PER WITH COLLISION S PER WITH COLLISION S PER WITH 0 0 0 18 0 0 0 18 0 0 0 18 0 0 0

3.4 Results Year 3

Table 3.4.1 Densities of flying birds at Neart na Gaoithe development area between November 2011 and October 2012. Data gathered during ship-based surveys, see § 2.1.

	Density Dens	Density	Density	Density	Density	Density						
	(birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)	!) (birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)	(birds/km2)
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet	0.063	0	2.283	0.82	7	2.290	•		7	2.417	_	
Kittiwake	0.378	0	0.507	0.12	_	0.254	J		_	0.318	`	
Guillemot	1.449	0.318	0.254	0.382	0.890	0.827	0.000	000.0	0000	0.064	0.494	
Razorbill	0.000	0	0.000	0.00	_	0.191	J	•	_	0.064	_	
Puffin		0	0.063	0.19	_	0.700	•	•	_	0.254	_	
Herring Gull		0	0.000	0.06	_	0.000	_	•	_	0.000	_	
Pink-footed Goose		0	0.000	0.00	_	0.000	_	•	_	0.000	_	
Great Skua		0	0.000	0.00	_	0.000	J	•	_	0.000	_	
Little Gull		0	0.000	0.00	_	0.000	J	•	_	0.000	_	
Lesser Black-backed Gull		O	0.000	0.00	_	0.000	J	_	_	0.000	_	
Great Black-backed Gull		0	0.000	0.000	_	0.000	0.000	_	U	0.000	_	
Large gulls combined	0.315	0.000	0.000	0.06	_	0.000	O		00000	0.000	J	

Table 3.4.2 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of transits through the rotor-swept area.

	Probability of collision during single rotor	transits through	Potential number of transits through rotor-swept										
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec
Gannet	0.079	549	1681	25140	9870	58376	31432	36257	50719	54850	24857	3353	0
Kittiwake	0.062	3544	0	5378	1392	8339	3026	3862	2211	2012	3248	12368	0
Guillemot	0.055	258	57	57	93	245	232	0	0	0	13	89	0
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.072	8735	0	0	5147	22425	0	11423	0	0	0	0	0
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.066	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.059	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	0.069	0	0	0	0	2805	0	0	0	0	0	0	0
Great Black-backed Gull	0.075	7897	0	0	0	0	0	0	0	0	0	2625	0
Large gulls combined	0.072	17763	0	0	4187	27362	0	9292	0	0	0	3543	0

Neart na Gaoithe 73 x 6.15MW - 126

	Probability of collision during single rotor	transits through	Potential number of transits through	Potential number of transits through	transits through	Potential number of transits through	Potential number of transits through	Potential number of transits through rotor-swept	Potential number of transits through	transits through		Potential number of transits through	Potential number of transits through
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun			area Sep	area Oct	area Nov	area Dec
Gannet	0.079	416	1273	19032	7472	44193	23795	27448	38396	41524	18818	2538	0
Kittiwake	0.062	2683	0	4071	1054	6313	2291	2923	1674	1523	2459	9363	0
Guillemot	0.055	195	43	43	70	186	175	0	0	0	10	67	0
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.071	6613	0	0	3897	16977	0	8647	0	0	0	0	0
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.067	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.058	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	0.069	0	0	0	0	2124	0	0	0	0	0	0	0
Great Black-backed Gull	0.075	5979	0	0	0	0	0	0	0	0	0	1987	0
Large gulls combined	0.072	13447	0	0	3170	20714	0	7034	0	0	0	2682	0

Neart na Gaoithe 73 x 6.15MW - 152

	Probability of collision during	transits through	Potential number of transits through	Potential number of transits through		Potential number of transits through		Potential number of transits through rotor-swept	Potential number of transits through	transits through	Potential number of transits through	Potential number of transits through	Potential number of transits through
Species	crossing	area Jan	area Feb	area Mar					area Aug	area Sep	area Oct	area Nov	area Dec
Gannet	0.065	501	1535	22959	9013	53312	28705	33112	46319	50092	22701	3062	0
Kittiwake	0.051	3236	0	4912	1271	7616	2763	3527	2019	1837	2966	11295	0
Guillemot	0.046	235	52	52	85	224	212	0	0	0	12	81	0
Razorbill	0.047	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.043	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.059	7977	0	0	4701	20480	0	10432	0	0	0	0	0
Pink-footed Goose	0.058	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.055	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.048	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	0.057	0	0	0	0	2562	0	0	0	0	0	0	0
Great Black-backed Gull	0.062	7212	0	0	0	0	0	0	0	0	0	2397	0
Large gulls combined	0.060	16222	0	0	3824	24989	0	8486	0	0	0	3235	0

	Probability of collision during single rotor	transits through	Potential number of transits through rotor-swept		Potential number of transits through rotor-swept	transits through	Potential number of transits through rotor-swept	Potential number of transits through rotor-swept	Potential number of transits through rotor-swept				
Species	crossing	area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug	area Sep	area Oct	area Nov	area Dec
Gannet	0.068	522	1598	23899	9382	55494	29880	34467	48214	52142	23629	3187	0
Kittiwake	0.054	3369	0	5113	1323	7928	2876	3671	2102	1912	3087	11757	0
Guillemot	0.049	245	54	54	. 88	233	220	0	0	0	13	84	0
Razorbill	0.050	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.047	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.062	8304	0	0	4893	21318	0	10859	0	0	0	0	0
Pink-footed Goose	0.061	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.058	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.051	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	0.060	0	0	0	0	2667	0	0	0	0	0	0	0
Great Black-backed Gull	0.065	7507	0	0	0	0	0	0	0	0	0	2496	0
Large gulls combined	0.062	16886	0	0	3980	26011	0	8833	0	0	0	3368	0

Table 3.4.3 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of collisions assuming an avoidance rate of 95%.

Neart na Gaoithe 90 x 5M	Collisions per month with avoidance	Collisions per month with avoidance rate 0.95	per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Species	rate 0.95 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	2	6				102			181	83			
Kittiwake	10	(5					
Guillemot	1	(
Razorbill	0	(
Puffin Herring Gull	28	(
Pink-footed Goose	0	(
Great Skua	0	(
Little Gull	Ö	Ċ							ő				
esser Black-backed Gull	0								ō				
Great Black-backed Gull	26	Č											
Large gulls combined	56	(0 0) 13	82	! 0	27	0	0	C) 11	l C	
Neart na Gaoithe 73 x 6.1	5MW - 126												TOTAL COLLISION
	Collisions per month with	Collisions per month with avoidance	per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	S PER YEAR WITH AVOIDANC
	avoidance	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	rate 0.95	E RATE OF
Species Gannet	rate 0.95 Jan	Feb	Mar 4 63	Apr 24	May 144	Jun 77	Jul 88	Aug 120	Sep 136	Oct 63	Nov	Dec	0.95 796
Kittiwake	7	(4	4	6			
Guillemot	0	(
Razorbill	Ö	Č											
Puffin	0	Ċ) (
Herring Gull	21	() () 11	50	0	25	0	0	C) 0) (118
Pink-footed Goose	0	(
Great Skua	0	(
ittle Gull	0	(0				
Lesser Black-backed Gull	0												
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	20 42	() () () () 0	0			Ċ) 6	S C) 29) 156
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake	20 42	(Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul 88	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 797 98
esser Black-backed Gull freat Black-backed Gull arge gulls combined leart na Gaoithe 73 x 6.1: Species Sannet (tittwake Sullemot Razorbill	20 42 5MW - 152 Collisions per month with avoidance rate 0.95 Jan 7	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Jul	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
esser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Sannet Kittwake Sulliemot Razorbill Puffin	20 42 SMW - 152 Collisions per month with avoidance rate 0.95 Jan 7 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun 77	Collisions per month with avoidance rate 0.95 Jul 88 7	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 136 4 0 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 797 98 2 0 0 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin	20 42 SMW - 152 Collisions per month with avoidance rate 0.95 Jan 7 0 0 0 21	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May 145 3 16 0 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Jul 88 7 0 0 0 255	Collisions per month with avoidance rate 0.95 Aug 120 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	70TAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 98 2 0 0 0 118
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose	20 42 SMW - 152 Collisions per month with avoidance rate 0.95 Jan 7 0 0 0 0 21	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Mar 4 64 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Apr 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun 777 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul 88 7 0 0 0 0 25 0 0	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 98 2 0 0 118 0 118
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	20 42 SMW - 152 Collisions per month with avoidance rate 0.95 Jan 7 0 0 0 21	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 4 64 11 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Apr 24 3 0 0 0 0 12	Collisions per month with avoidance rate 0.95 May 145 160 160 160 160 160 160 160 160 160 160	Collisions per month with avoidance rate 0.95 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul 88 7 0 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Aug 120 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 136 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 98 2 0 0 118 0 0 0 0
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Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Reazorbill Puffin Herring Gull Lesser Black-backed Gull Lerge gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Reazorbill Lesser Black-backed Gull Lerge gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Reazorbill Puffin Herring Gull Puffin Herring Gull Puffin Herring Gull Puffin Herring Gull	Collisions per month with avoidance rate 0.95 Jan 20 20 43	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance cate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Collisions per month with with avoidance rate 0.95 Apr Collisions per month with with avoidance rate 0.95 Apr 27 28 38 38 38 38 38 38 38 38 38 38 38 38 38	Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 162 Collisions per month with with avoidance rate 0.95 May 163 Collisions per month with with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun 777 60 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.95 Jul 88 7 0 0 0 25 0 0 0 21 Collisions per month with with avoidance rate 0.95 Jul 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Collisions per month with avoidance rate 0.95 Aug 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 136 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions per month with collisions per month with with avoidance rate 0.95 Oct Collisions per month with collisions per month with collisions per month with collisions per month collisions per month collisions per month collisions per month with collisions per month with collisions per month collisions per mont	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Nov Collisions per month with with avoidance rate 0.95 Nov 10 10 10 10 10 10 10 10 10 1	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per mo	29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 797 98 2 0 0 118 0 0 7 29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 800 1111 2 0 0 132 0 132
esser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Great Black-backed Gull Great na Gaoithe 73 x 6.1 Species Gannet Gitthwake Gulllemot Razorbill Jerring Gull Jerring Gull Great Black-backed Gull Great Great Skup Great Skup G	Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan 20 21 20 20 21 20 20 21 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Collisions per month with avoidance (Collisions per month with (Collisions per month (Collisions per month (Collisions per month (Collisions per month with (Collisions per month (Collisions per mo	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar Collisions per month with avoidance rate 0.95 Mar 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance of the collisions per month with avoidance of the collisions of the collisions per month with avoidance of the collisions per month with avoidance of the collisions of the collisions per month with avoidance of the collisions of	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul Collisions 7 0 0 0 0 25 0 0 0 21 Collisions per month with avoidance rate 0.95 Jul 98 8 8 0 0 0 0 0 0 21	Collisions per month with avoidance rate 0.95 Aug 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep Collisions per month with avoidance rate 0.95 Sep 136 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 797 98 2 0 0 118 0 0 7 7 29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 118 0 0 118 0 0 118 0 0 118 0 0 118 0 0 118 0 0 118 0 0 118 0 0 0 118 0 0 0 118 0 0 0 118 0 0 0 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Pink-footed Goose Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Razorbill Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Razorbill Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.95 Jan 20 20 43 W Collisions per month with avoidance rate 0.95 Jan 20 20 43 W	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance cate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Jul 88 7 0 0 0 25 0 0 0 21 Collisions per month with with avoidance rate 0.95 Jul 98 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug 135 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 136 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 797 98 2 0 0 118 0 0 7 29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 118 0 0 17 29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 90 111 2 0 0 132 0 0 7 7
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan 20 21 20 20 21 20 20 20 20 20	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Collisions per month with collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Mar Collisions per month with collisions per month collisions per month with collisions per month with collisions per month collisions per month collisions per month with collisions per month collisions per month collisions per month with collisions per mo	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr 27 2 27 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with a collisions per month with with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May 162 163 162 163 164 165 165 165 165 165 165 165	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Jun 88 77 70 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.95 Jul Collisions per month with avoidance rate 0.95 Jul Collisions per month with avoidance rate 0.95 Jul 21 Collisions per month with avoidance rate 0.95 Jul 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug 135 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Sep 152 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Oct Go	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions p	29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 98 2 0 0 118 0 0 7 29 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 156 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 1890 0 132 0 0 0 7 31

Table 3.4.4 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of collisions assuming an avoidance rate of 98%.

Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Gannet	1		2 34						72	33			
Kittiwake	4		ο 6					_					
Guillemot	(
Razorbill	(-	C	-		
Puffin	(0 0										
Herring Gull	11) (
Pink-footed Goose	(0 0										
Great Skua Little Gull	(0 0							C			
esser Black-backed Gull	Č) (
Great Black-backed Gull	10) (-		
arge gulls combined	23		o d		33								
Neart na Gaoithe 73 x 6.15	5MW - 126												TOTAL
	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Species	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aug	Sep	Oct	Nov	Dec 0.30	0.98
Gannet	1		2 25							25			
Kittiwake	3		0 4							3			
Guillemot	(0 0) () (0	Ċ) 1
Razorbill	(
Puffin	() (
Herring Gull	8		0 0										
Pink-footed Goose	Ç		0 0										
Great Skua	(0 (
ittle Gull esser Black-backed Gull	(0 0							C			
Great Black-backed Gull	8												
arge gulls combined	17) (Č			
													TOTAL
Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Gannet	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Gannet Cittiwake	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 3 31	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Gannet Cittiwake Guillemot	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31 7 2 9 0	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 0 319 0 39
Sannet Sittiwake Guillemot Razorbill	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4 0 0	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31 7 2 9 0	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 3 39 1 1 0 0
Sannet Kittiwake Guillemot Razorbill Puffin	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31 7 2 0 0 0	per month with avoidance rate 0.98 Jul	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 3 319 3 319 3 30 3 319 3 30 3 30 3 30 3 30 3 30 3 30 3 30 3 3
Sannet Kittiwake Guillemot Razorbill Puffin Herring Gull	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4 0 0	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31 7 2 9 0 0 9 0	per month with avoidance rate 0.98 Jul 35	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 39 1 1 0 0 0 47
Sannet Kittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 3 31 7 2 9 0 0 9 0 9 0 9 0	per month with avoidance rate 0.98 Jul 35 0 0 0 0 10	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 0 319 0 0 0 47 0 0
Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 317 20 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Jul 35	per month with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 0 319 0 0 0 0 0 0 47 0 0 0 0 0 0 0
Sannet (titiwake Julilemot Razorbill Puffin Herring Gull Pink-footed Goose Freat Skua Jittle Gull esser Black-backed Gull	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 25 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	per month with avoidance rate 0.98 May 58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 31	per month with avoidance rate 0.98 Jul 35 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 319 310 0
Gannet (tittwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31	per month with avoidance rate 0.98 Jul 35	per month with avoidance rate 0.98 Aug 48 20 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Sep 555 2 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with with avoidance rate 0.98 Dec 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 39 39 39 30 47 00 30 30 30 30 30 30 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31
Sannet (tittwake Suillemot Razorbill Puffin Herring Gull Finik-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined	per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 C C C C C C C C C C C C C C C C C C C	per month with avoidance rate 0.98 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31	per month with avoidance rate 0.98 Jul 35	per month with avoidance rate 0.98 Aug 48 20 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct	per month with avoidance rate 0.98 Nov	per month with with avoidance rate 0.98 Dec 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 39 0 47 0 0 0 0 0 3 3 0 0 0 0 0 0 0 0 0 0 0 0
Jannet (tittiwake Guillemot Razorbill Puffin Herring Gull Herring Gull Fink-footed Goose Great Skua Little Gull Jesser Black-backed Gull Jereat Black-backed Gull	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	per month with avoidance rate 0.98 Apr 0 0 0	per month with avoidance rate 0.98 May SE 1	per month with avoidance rate 0.98 Jun 31	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0 0 0 0 0 Collisions per month with with avoidance	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec 3 C C C C C C C C C C C C C C C C C C	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 319 39 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Jannet (ittliwake suillemot tazorbill vuffin terring Gull rink-footed Goose Great Skua title Gull rieat Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV	per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 4 60 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Apr 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 31, 22, 31, 31, 31, 32, 31, 31, 31, 31, 31, 31, 31, 31, 31, 31	per month with avoidance rate 0.98 Jul 35 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 20 00 00 00 00 00 00 00 00 00 00 00 00	per month with avoidance rate 0.98 Sep 55 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov 3 10 10 10 10 10 10 10 10 10 10 10 10 10	per month with avoidance rate 0.98 Dec 8 C C C C C C C C C C C C C C C C C C	COLLISION S PER YEAR WITH O 0.98 319 39 39 39 39 39 39 39 39 39 39 39 39 39
Jannet (tittiwake bullemot tazorbill vuffin lerring gull ink-footed Goose freat Skua titte Gull great Black-backed Gull great Black-backed Gull great Black-backed Gull drange gulls combined leart na Gaoithe 75 x 6MN	per month with avoidance rate 0.98 Jan 1 2 3 3 4 5 5 6 6 6 6 6 6 6 6 6 7 7 7 8 7 8 7 8 7 8 7	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per rate 0.98 Collisions per rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per rate 0.98 Collisions per rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per rate 0.9	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jun 31	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec	COLLISION S PER YEAR WITH AVOIDANC TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Jannet (tittiwake sulliemot tazorbill vuffin derring Gull ink-footed Goose Great Skua tittle Gull esser Black-backed Gull erser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May 65 Collisions per month with 65 Collisions per month 65	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul 339	per month with avoidance rate 0.98 Aug 48 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct 256 CC	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98	COLLISION S PER YEAR WITH C 19.8 9.9 9.0 9
Jannet (tittiwake Suillemot Azzorbill vuffin ferring Gull ink-footed Goose reat Skua titte Gull esser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV Species Jannet Littiwake	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 Collisions per month with with avoidance rate 0.98 Mar 250 Collisions per month with with 250 Collisions per month with 250 Collisions per mont	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May 65 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Jul 38 30 30 30 30 30 30 30 30 30 30 30 30 30	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Aug	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions D	COLLISION S PER YEAR WITH O.98 319 39 1 1 62 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Sannet (ittliwake spillemot tazorbill tuffin terring Gull rink-footed Goose Great Skua tittle Gull sreat Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species sannet (ittliwake buillemot tazorbill	per month with avoidance rate 0.98 Jan 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance rate 0.98 Mar 220 Collisions per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance 0.98 Mar 250 Collisions per month with avoidance 0.98 Mar 250 Collisions per	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May 65 67 67 67 67 67 67 67 67 67 67 67 67 67	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 2 0	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Goldsions per month with avoidance rate 0.98 Dec Goldsions per month with avoidance rate 0.98 Dec Goldsions Dec Golds	COLLISION S PER YEAR WITH OLD COLLISION S PER YEAR WITH AVOIDANC E CATE OF O.98 TOTAL COLLISION S PER YEAR WITH AVOIDANC E CATE OF O.98 356 46 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sannet (ittiwake Sullemot Sazorbill (utfin Iderring Gull ink-footed Goose Freat Skua ittle Gull esser Black-backed Gull erser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species Sannet utfilliwake builliemot tazorbill utfin	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 2	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May SE COLLISIONS PER MONTH OF THE PROPERTY	per month with avoidance rate 0.98 Jun	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Dec 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH O 0.98 399 399 399 399 399 399 399 399 399 3
Sannet ittitivake suillemot tazorbill vuffin terring Gull ink-footed Goose Great Skua ittle Gull ink-footed Hoose Great Skua ittle Gull ink-footed Goose Great Skua ittle Gull inger Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species sannet ittitivake suillemot tazorbill vuffin ferring Gull	per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar Collisions per month with avoidance rate 0.98 Mar 2 2 2 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May SE Collisions per month with avoidance rate 0.98 May SE COLLISIONS PER	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0	per month with avoidance rate 0.98 Sep 55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions D	COLLISION S PER YEAR WITH O 0.98 319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sannet (ittlwake Sullemot Sazorbill vurfin Iterring Gull Irink-footed Goose ireat Skua ittle Gull esser Black-backed Gull streat Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species Sannet tittlwake Sullemot tazorbill vurfin Iterring Gull irink-footed Goose	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 0.00 0.00 0.00 0.00 0.00 0.00 0.00	per month with avoidance rate 0.98 Apr Collisions per month with with with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 355 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct Collisions per month with with with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Oct Collisions per month with collisions per month collisions per month with collisions per month with collisions per month with collisions per month with collisions per month collis	per month with avoidance rate 0.98 Nov 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Dec 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COLLISION S PER YEAR WITH O 0.98
Sannet ittitwake Sullemot tazorbill vuffin terring Gull ink-footed Goose reat Skua ittle Gull sesser Black-backed Gull arge gulls combined leart na Gaoithe 75 x 6MV species Sannet ittitwake Sullemot tazorbill vuffin lerring Gull ink-footed Goose rieat Skua	per month with avoidance rate 0.98 Jan Collisions per month with avoidance rate 0.98 Jan	collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance rate 0.98 Mar 250 Collisions per month with avoidance rate 0.98 Collisions Collisions per month with avoidance rate 0.98 Collisions	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May 58 Collisions per month with avoidance rate 0.98 May 66 Collisions per month with avoidance rate 0.98 May 66 Collisions 67 Collisio	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec Collisions Dec Co	COLLISION S PER YEAR WITH O 0.98 319 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sannet (fittiwake Suillemot Razorbill Puffin Herring Gull Herring Gull Herse Black-backed Gull Lesser Black-backed Gull L	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep	per month with avoidance rate 0.98 Oct 25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec Collisi	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Sannet (tittwake Guillemot Razorbill Puffin Herring Gull Fink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	collisions per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Mar 2	per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with with avoidance rate 0.98 May	per month with avoidance rate 0.98 Jun 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Jul 39 3 3 3 6 6 7 6 7 7 8 7 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	per month with avoidance rate 0.98 Aug 48 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Sep 55 2 2 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions per month with avoidance rate 0.98 Dec Collisions per month with collisions per month	COLLISION S PER YEAR WITH 0.98 1
Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-backed Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	per month with avoidance rate 0.98 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per month with avoidance rate 0.98 Feb	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr	per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May Collisions per month with avoidance rate 0.98 May 65 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69	per month with avoidance rate 0.98	per month with avoidance rate 0.98 Jul 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Aug 48 2 2 0	per month with avoidance rate 0.98 Sep 55 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Oct 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per month with avoidance rate 0.98 Nov	per month with avoidance rate 0.98 Dec Collisions D	COLLISION S PER YEAR WITH 0.98 0 319 0

Table 3.4.5 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of collisions assuming an avoidance rate of 99%.

Neart na Gaoithe 90 x 5M	IW												
Species Gannet	Collisions per month with avoidance rate 0.99 Jan	rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 211
Kittiwake	2								1				
Guillemot	(
Razorbill	Ċ												
Puffin	() 0) (0 0) (0	0	() () 0	0
Herring Gull	6) 0) :	3 13) 7	. 0	0	() () 0	31
Pink-footed Goose	(0				
Great Skua	(-		0				-
Little Gull Lesser Black-backed Gull	(0				
Great Black-backed Gull									0				
Large gulls combined	11								0				
Neart na Gaoithe 73 x 6.1	5MW - 126												TOTAL
	Collisions	Collisions	Collisions	Collisions	Collisions		Collisions	Collisions	Collisions		Collisions	Collisions	COLLISION S PER
	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	per month	YEAR
	with	with	with	with	with	with	with	with	with	with	with	with	WITH
	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	AVOIDANC E RATE OF
Species	rate 0.99 Jan	rate 0.99 Feb	rate 0.99 Mar	rate 0.99 Apr	rate 0.99 Mav	rate 0.99 Jun	rate 0.99 Jul	rate 0.99 Aug	rate 0.99 Sep	rate 0.99 Oct	rate 0.99 Nov	rate 0.99 Dec	E RATE OF 0.99
Sannet	Jan (Зер 27				
Kittiwake									1				
Guillemot	(
Razorbill	() 0) (0 0) (0	0	() () 0	0
Puffin	() 0) (0 0) (0	0	() () 0	0
Herring Gull	4	-					-		0				
Pink-footed Goose	(0				
Great Skua	() (0				-
Little Gull									0	() () 0	
	Ċ												
	(0) (0 1	Ċ	Ò	0	0	Ċ			
Great Black-backed Gull Large gulls combined	((2 8	. (0 0) (0 1	() (0		() 1	0	6 31 TOTAL
Great Black-backed Gull Large gulls combined	((2 8	Collisions per month with	0 0	Collisions per month with avoidance rate 0.99	0 1	Collisions per month with) (Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with) 1	0	6 31
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159
Great Black-backed Gull arge gulls combined leart na Gaoithe 73 x 6.1 Species Sannet tittiwake	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20
Freat Black-backed Gull arge gulls combined leart na Gaoithe 73 x 6.1 Species Sannet (tittwake Suillement)	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0
Great Black-backed Gull arge gulls combined leart na Gaoithe 73 x 6.1 species Species Sannet (tittiwake sulliend)	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0
Great Black-backed Gull arge gulls combined leart na Gaoithe 73 x 6.1 Species Bannet ittitwake Buillemott Back-backed Gull Back-bac	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug 24	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 0 0
Great Black-backed Gull arge gulls combined Neart na Gaoithe 73 x 6.1 Species Sannet (tithwake Sullemot Razorbill Purffin Gull	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 May 5 25 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul 18	Collisions per month with avoidance rate 0.99 Aug 24 1 0 0 0 0	Collisions per month with avoidance rate 0.99 Sep 27 1 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 0 0 0 0 24
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Bannet Gittiwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Mar 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May 1 2 2 12	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul 18 10 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 24 0
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Cittiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul 188	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 24 0 0 0 0 0 0
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar 130 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul 18	Collisions per month with avoidance rate 0.99 Aug 24 1 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Sep 27 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 0 24 0 0 0 1
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Jun 16	Collisions per month with avoidance rate 0.99 Jul 18	Collisions per month with avoidance rate 0.99 Aug 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 31 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 24 0 0 1 6
Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Bannet Kithwake Buillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jun 16	Collisions per month with avoidance rate 0.99 Jul 18	Collisions per month with avoidance rate 0.99 Aug 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Sep 27 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 31 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 24 0 0 16 31
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Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Resorbill Pink-footed Goose Great Skua Little Gull Large gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Herring Gull Pink-footed Goose Great Skua Little Guil Lesser Black-backed Gull Little Gull Lesser Black-backed Gull Little Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.99 Jan Collisions per month with avoidance rate 0.99 Jan Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Mar I a 13 I a 14 I a 14 I a 15 I a 16 I a 16 I a 16 I a 17 I a 17 I a 18 I a 18 I a 19 I a	Collisions per month with avoidance rate 0.99 Apr Collisions per month with avoidance rate 0.99 Apr Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with with avoidance rate 0.99 May Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun 15 Collisions per month with avoidance rate 0.99 Jun 16 Collisions per month with avoidance rate 0.99 Jun 17 Collisions per month with avoidance rate 0.99 Jun 17 Collisions per month with avoidance rate 0.99 Jun 17 Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jul Collisions per month with a collisions per month with with a collisions per month with collisions per month with a collisions per month with a collisions per month with	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Aug 27 10 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Sep 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Oct Collisions per month with avoidance rate 0.99 Oct Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov Collisions per month with avoidance rate 0.99 Nov Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 24 0 0 1 6 311 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 178 22 0 0 0 0 26 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.1 Species Gannet Kittiwake Guillemot Razorbill Plerring Gull Pink-footed Goose Great Skua Little Gull Large gulls combined Neart na Gaoithe 75 x 6M Species Gannet Kittiwake Guillemot Razorbill Plink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Species Gannet Kittiwake Guillemot Razorbill Plink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.99 Jan Collisions per month with avoidance rate 0.99 Jan Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Mar 1 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Collisions per month with avoidance rate 0.99 Apr Collisions per month with avoidance rate 0.99 Apr Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 May May Collisions per month with avoidance rate 0.99 May Collisions per month with avoidance rate 0.99 May May Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun 15 Collisions per month with avoidance rate 0.99 Jun 17 Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jul Collisions per month with avoidance rate 0.99 Jul Collisions per month with avoidance rate 0.99 Jul 20 Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.90 Collisions per month with avoidance rate 0.99 Aug Collisions per month with avoidance rate 0.99 Aug 27	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Sep 30 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.91 Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99 Nov Collisions per month with avoidance rate 0.99 Nov Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Collisions per month with avoidance rate 0.99	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 159 20 0 0 0 24 0 1 6 31 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99 178 22 0 0 0 0 26 0 0 0 1 1 6 0 0 0 1 1 6 0 0 0 1 1 6 0 0 0 0

Table 3.4.6 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of collisions assuming an avoidance rate of 99.5%.

Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
Gannet	0		1 8	3 ;					18			1 (106
Kittiwake	1	i (0 1	1 (1 1	1	1		1 :	3 () 13
Guillemot	Ċ												
Razorbill	Č												
	C) (
Puffin													
Herring Gull		, ,											,
Pink-footed Goose	C								0				
Great Skua	C												
_ittle Gull	C												
Lesser Black-backed Gull	C												
Great Black-backed Gull Large gulls combined	3 6) .		
Neart na Gaoithe 73 x 6.1	5MW - 126												TOTAL
	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	COLLISION S PER YEAR
	with	with	with	with	with	with	with	with	with	with	with	with	WITH
	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	avoidance	AVOIDANC
	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	rate 0.995	E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.995
Gannet	C								14				
Kittiwake	1	1 (
Guillemot	C) (
Razorbill	C												
Puffin	Q												
Herring Gull	2												
Pink-footed Goose	0												
Great Skua		, ,											
ittle Gull	C												
esser Black-backed Gull	C												
Great Black-backed Gull arge gulls combined	2) (
	4 5MW - 152	i (0 ()	1 6	S () 2	? C	C) () .	1 () 16
Neart na Gaoithe 73 x 6.1:		Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
leart na Gaoithe 73 x 6.1 Species Jannet	5MW - 152 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
leart na Gaoithe 73 x 6.1 species sannet tittiwake	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
leart na Gaoithe 73 x 6.1 Species Jannet Jatiwake Julliemot	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
leart na Gaoithe 73 x 6.1: Species Jannet (ittiwake Juillemot Lazorbill	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
leart na Gaoithe 73 x 6.1 Species Bannet Gittiwake Buillemot kazorbiil Puffin	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 4 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
Neart na Gaoithe 73 x 6.1s Species Jannet Cittiwake Juillemot Razorbill Purffin	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
Species Sannet Kiltiwake Sulliemot Razorbill Verink-footed Goose	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 4 8 8	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 0 0 0 0 0 0 0 12
Species Gannet Gittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 2 14 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Collisions per month with avoidance rate 0.995 Jun 8	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 10 0 0 0 12 0 12
Species Gannet Kittiwake Guillemot Razorbill Puffin Ferring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 2 14 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.995 Jun (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	Collisions per month with avoidance rate 0.995 Jul 6 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 10 0 0 0 0 0 0 0 12 0 0 0 0 0 12 0
Species Gannet Kittiwake Guillemot Razorbill Plerfing Gull Plerring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 4	Collisions per month with avoidance rate 0.995 Jul 3 5 6 6 7 7 7 8 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 10 0 0 0 0 12 0 0 0 0 0 0 0 12 0
Species Sannet Kiltiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 4 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jul S S S S S S S S S S S S S S S S S S S	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec 13 C C C C C C C C C C C C C C C C C C	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 0 10 0 0 0 12 0 0 0 0 12 0 0 0 0 12 0 0 0 0 12 0
Species Sannet (titiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun 4 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Jul S S S S S S S S S S S S S S S S S S S	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec 13 C C C C C C C C C C C C C C C C C C	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Species Sannet (titiwake Suillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance cate 0.995 Collisions per month with with avoidance avoidance	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Apr 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 May 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jun 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jul S S S S S S S S S S S S S S S S S S S	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec 13 CO 15	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0 0 0 0 10 0 0 0 10 0 0 10 0 0 0 10 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Reart na Gaoithe 73 x 6.1s Species Sannet Cittiwake Suillemot Razorbill Purfin Herring Gull Fired Skua Little Gull Esser Black-backed Gull Great Black-backed Gull arge gulls combined	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jun 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance cate 0.995	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions of the collisions of the collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Dec 13 Collisions Collisions with avoidance rate 0.995 month with avoidance rate 0.995 collisions per month	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 0 10 0 0 0 0 0 12 0 0 0 12 0 0 0 12 0 0 0 16 0 0 0 17 0 0 0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Species Sannet Gittiwake Sulliemot Sazorbill Vuffin Herring Gull Herring Gull Fink-footed Goose Freat Skua tittle Gull Freat Black-backed Gull Great Black-backed Gull Arge gulls combined	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 60 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 14 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.995 Jun Collisions per month with collisions per month with with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with the collisions per month with with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0
Species Jannet Jeant na Gaoithe 73 x 6.1s Species Jannet Jeant na Gaoithe 73 x 6.1s Jeant na Gaoithe 73 x 6.1s Jeant na Gaoithe 75 x 6M Jeant na Gaoithe 75 x 6M Species Jannet	Collisions per month with avoidance rate 0.995 Jan Collisions per month with collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Mar O	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 2 1/2 0 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Jun 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.995 Jul Collisions per month with collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep Collisions per month with avoidance rate 0.995 Sep Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Dec COLLISIONS COLL	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0 0 0 0 0 0 0 12 0 0 0 0 16 0
Species Sannet Gittiwake Sulliemot Razorbill Purfin Herring Gull Fink-footed Goose Great Skua Little Gull Great Black-backed Gull Great Black-backed Gull Great Black-backed Gull Arage gulls combined Neart na Gaoithe 75 x 6M Species Sannet	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun School Sch	Collisions per month with avoidance rate 0.995 Jul Collisions per month with with avoidance rate 0.995 Jul 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 10 10 10 10 11 10 11 10 11 11 11 11
Species Sannet Sittiwake Suillemot Sazorbiil Puffin Serial Skua Stelle Goose Freat Skua Stelle Goose F	Collisions per month with avoidance rate 0.995 W Collisions per month with avoidance collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb () () () () () () () () () () () () ()	Collisions per month with avoidance rate 0.995 Mar O	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 1/2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Jun 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.995 Jul Collisions per month with collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec 13 Collisions per month with Collisions Collisio	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 10 10 10 10 11 10 11 10 11 11 11 11
leart na Gaoithe 73 x 6.1s Species Jannet Littiwake Juillemot Lazorbill Portini Herring Gull Jink-Hooted Goose Freat Skua Little Gull Sesser Black-backed Gull Jarge gulls combined Leart na Gaoithe 75 x 6MI Species Jannet Littiwake Juillemot Li	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun Collisions Collisions per month with avoidance rate 0.995 Jun Collisions Collisions per month with avoidance rate 0.995 Jun Collisions Collisions Collisions Per month with avoidance rate 0.995 Jun Collisions Collisions Collisions Collisions Collisions Per March 200 Co	Collisions per month with avoidance rate 0.995 Jul 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov (collisions per mon	Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC C E RATE OF 0.995 10 10 10 10 10 10 10 10 10 10 10 10 10
Species Sannet Silliant and Gaoithe 73 x 6.1s Species Sannet Silliant and Silliant	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance cate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May 20 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Collisions per month with avoidance rate 0.995 Jun Collisions per month with collisions per month with avoidance rate 0.995 Jun Collisions per month with collisions per month	Collisions per month with avoidance rate 0.995 Jul S S S S S S S S S S S S S S S S S S S	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions per month with Collisions per mont	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Reart na Gaoithe 73 x 6.1s Recies Sannet Sittiwake Suillemot Razorbill Puffin derring Gull ricat Skua title Gull sesser Black-backed Gull arge gulls combined Reart na Gaoithe 75 x 6M	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jun Collisions Sci	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec COllisions per month with avoidance rate 0.995 Dec COllisions per month with avoidance rate 0.995 Dec COLLISION COLLISION COLLISION COLLISION COLLISION COLLISION COLLIS	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 10 10 10 10 10 10 10 10 10 10 10 10
species Sannet Uttiwake Suillemot Lazorbill Lesring Gull Jerest Black-backed Jerest Bl	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions per month with with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with a collisions per month with with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance collisions per month with with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 Collisions per month with collisions per month with with avoidance rate 0.995 Aug 13 Collisions per month with with avoidance rate 0.995 Aug 13 Collisions per month with collisions per month collisions pe	Collisions per month with avoidance rate 0.995 Sep Collisions per month with collisions per month with with avoidance rate 0.995 Sep 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions per month with Collisions per mont	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Species Sannet Silliamet Sannet Silliamet Sill	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance collisions per month with a collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May 3 12 12 12 12 12 12 12 12 12 12 12 12 12	Collisions per month with avoidance rate 0.995 Jun Collisions per mon	Collisions per month with avoidance rate 0.995 Jul Collisions per month with a collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance collisions per month with collisions per month collisions per month collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance cate 0.995 Dec Collisions per month with avoidance cate 0.995 Dec Collisions per month with avoidance rate 0.995 Dec Collisions per month with avoidance cate 0.995 Dec Collisions per month with avoidance cate 0.995 Dec Collisions per month with avoidance cate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 10 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10
Species Bannet ettitiwake Buillemot tazorbiil Herring Gull Freat Black-backed Gull esser Black-backed Gull erse gulls combined Species Bannet ettititiwake Buillemot Black-backed Gull esser Black-backed Gull erse gulls combined Species Bannet ettitiwake Buillemot Bazorbiil Puffin Herring Gull Freink-footed Goose Freat Skua	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with with avoidance rate 0.995 Mar Collisions per month with with avoidance rate 0.995 Mar Collisions per month with collisions per month with mar Collisions per month with collisions per month with mar Collisions per month with collisions per month per month per month with collisions per month with collisions per month per m	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with with avoidance rate 0.995 May 1	Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance collisions per month with with avoidance rate 0.995 Jun Collisions per month with avo	Collisions per month with avoidance rate 0.995 Jul Collisions per month with a collisions per month with with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 Collisions per month with collisions per month with with avoidance rate 0.995 Aug 13 Collisions per month with with collisions per month with collisions per month with collisions avoidance rate 0.995 Aug 13 Collisions per month with collisions per month collisions per month with collisions per month with collisions per month collisions per month collisions per month with collisions per month collisio	Collisions per month with avoidance rate 0.995 Sep 14 COLLISIONS PER MONTH OF THE PROPERTY OF	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec Collisions per month with a collisions per month with a collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Species Sannet Sittiwake Suillemot Sanorithe 73 x 6.1s Species Sannet Sittiwake Suillemot Sazorbiil Puffin Herring Gull Pink-footed Goose Freat Skua Ittle Gull Freat Black-backed Gull Freat Black-backed Gull Freat Black-backed Gull Arge gulls combined Species Sannet Stitiwake Suillemot Sazorbiil Puffin Herring Gull Pink-footed Goose Freat Skua Ittle Gull Evesser Black-backed Gull Ittle Gull Evesser Black-backed Gull	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with (1) (2) (3) (4) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions collisions per month with collisions per month with collisions per month with collisions collisions per month with collisions per month with collisions per month with collisions collisions per month with collisions per month collisi	Collisions per month with avoidance rate 0.995 Jun 4 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance cate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov Collisions Collisions Collisions Collisions Nov Collisions Collision	Collisions per month with avoidance rate 0.995 Dec Collisions per month with Collisions collisions collisions per month with avoidance rate 0.995 Dec Collisions Coll	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 10 10 10 10 11 10 11 11 11 11 11 11 11
Species Gannet Kittiwake Guillemot Razorbill Puffin Ferring Gull Pink-footed Goose Great Skua	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions collisions per month with collisions per month with collisions per month with collisions collisions per month with collisions per month with collisions per month with collisions collisions per month with collisions per month collisi	Collisions per month with avoidance rate 0.995 Jun 4 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.995 Jul Collisions per month with with avoidance rate 0.995 Jul (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	Collisions per month with avoidance rate 0.995 Aug 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 14 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Oct Collisions per month with with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with with avoidance rate 0.995 Nov Collisions per month with avoidance rate 0.995 Nov (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Collisions per month with avoidance rate 0.995 Dec Collisions per month with Collisions collisions collisions per month with Collisions per month with Collisions per month with Collisions	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 810 10 11 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 81 10 11 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995

3.5 Results Years 1, 2 and 3 combined

Table 3.5.1 Densities of flying birds at Neart na Gaoithe development area between November 2009 and October 2012. Data gathered during ship-based surveys, see § 2.1.

	Proportion at rotor	Density (birds/km2)	Density (birds/km2	Density (birds/km2)	Density (birds/km2	Density (birds/km2)	Density (birds/km2	Density (birds/km2)	Density (birds/km2)	Density (birds/km2)	Density (birds/km2)	Density (birds/km2)	Density (birds/km2)
Species	height	Jan	Feb	Mar		May	Jun) Inf	Aug	Sep	Oct	Nov	Dec
Gannet	0.047	_	•	.,		,	.,	4,	4	4.742	2.272		0.031
Kittiwake	0.042	0.147	0.044	4 0.189	9 0.214	4 0.616	0.234	1 0.943	0.171	0.653	0.803	0.764	3.364
Guillemot	0.001		_	_		_	_	_	O	0.000	0.147		0.222
Razorbill	0.000		_	_	_	_	_	_	_	0.000	0.279	_	0.031
Puffin	0.000	0	_	_	_	_	_	1.367	0.557	0.000	0.085	_	0.000
Herring Gull	0.321	_	_	_	_	Ŭ	_	_	_	0.000	0.000	_	0.159
Pink-footed Goose	0.991		_	_	_	_	_	_	_	0.000	0.000	_	0.000
Great Skua	0.000		_	_	_	_	_	_	_	0.000	0.000	_	0.000
Little Gull		0	_	_	_	_	_	_	_	0.127	0.021	_	0.000
Lesser Black-backed Gul			_	_	_	_	_	_	000.0	0.000	0.000	_	0.000
Great Black-backed Gull		0	_	_	_	_	_	_	0	0.043	0.000	_	0.127
Large gulls combined		0	J	J	_	J	_	_	0.000	0.043	0.000	_	0.286

Table 3.5.2 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012. Potential number of transits through the rotor-swept area.

	Probability	Potential	Potential number of	TOTAL transits										
	of collision	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	transits	through
	during	through	through	through	through		through		through	through	through	through	through	rotor-swept
				rotor-swept										
Species	crossing	area Jan	area Feb		area Apr	area May	area Jun	area Jul			area Oct		area Dec	YEAR
Gannet	0.079									53168				363838
Kittiwake	0.062	1377	392	2002	2342	7346	2785	11447	1982	6887	8201	7075	30966	82802
Guillemot	0.055	112	97	50	339	260	150	30	17	0	31	56	38	1179
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.072	16039	4283	9272	3441	7475	7542	3808	0	0	0	6586	10802	69247
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.066	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.059	0	0	0	0	0	0	0	0	12403	1869	0	0	14272
Lesser Black-backed Gull	0.069	0	0	0	432	1420	0	482	0	0	0	0	0	2335
Great Black-backed Gull	0.075	5289	0	0	0	0	1144	0	0	2028	0	2636	5205	16301
Large gulls combined	0.072	20184	3484	7543	4203	10699	7678	4666	0	2737	0	8914	15811	85918

Neart na Gaoithe 73 x 6.15MW - 126

	Probability	Potential number of	Potential number of	Potential number of	TOTAL transits									
	of collision	transits	transits	transits	transits	transits	transits	through						
	during	through	through	through	through	through	through	rotor-swept						
				rotor-swept										
Species	crossing	area Jan	area Feb			area May	area Jun						area Dec	YEAR
Gannet	0.079								40615		17693		200	275439
Kittiwake	0.062	1042	297	1516	1773	5561	2109	8666	1500	5214	6208	5356	23442	62684
Guillemot	0.055		73	38	257	196	113	23	13	0	23	42	29	893
Razorbill	0.056	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.052	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.071	12142	3242	7020	2605	5659	5709	2882	0	0	0	4986	8177	52423
Pink-footed Goose	0.070	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.067	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.058	0	0	0		0	0	0	0	9390	1415	0	0	10804
Lesser Black-backed Gull	0.069	0	0	0	327	1075	0	365	0	0	0	0	0	1767
Great Black-backed Gull	0.075	4004	0	0	0	0	866	0	0	1535	0	1995	3941	12341
Large gulls combined	0.072	15280	2637	5710	3182	8099	5813	3532	0	2072	0	6748	11970	65043

Neart na Gaoithe 73 x 6.15MW - 152

	Probability of collision during		Potential number of transits through	TOTAL transits through rotor-swept										
0				rotor-swept										
Species	crossing	area Jan	area Feb		area Apr				area Aug	area Sep		area Nov	area Dec	YEAR
Gannet	0.065	669	10688	23708	13506	54427	42868	64970	48996	48556	21344	2303	241	332276
Kittiwake	0.051	1258	358	1828	2139	6709	2544	10454	1810	6289	7490	6461	28280	75619
Guillemot	0.046	102	88	46	310	237	137	28	15	0	28	51	35	1077
Razorbill	0.047	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.043	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.059	14647	3911	8468	3143	6827	6888	3477	0	0	0	6014	9865	63240
Pink-footed Goose	0.058	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.055	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.048	. 0	0	0		0	0	0	0	11327	1707	0	0	13034
Lesser Black-backed Gull	0.057	. 0	0	0	394	1297	0	441	0	0	0	0	0	2132
Great Black-backed Gull	0.062	4830	0	0	0	0	1044	0	0	1852	0	2407	4754	14887
Large gulls combined	0.060	18433	3182	6888	3838	9770	7012	4261	0	2499	0	8141	14440	78465

	Probability of collision during		Potential number of transits through	TOTAL transits through rotor-swept										
0				rotor-swept										
Species	crossing	area Jan	area Feb		area Apr		area Jun		area Aug		area Oct	area Nov	area Dec	YEAR
Gannet	0.068	697	11125	24678	14058	56654	44622	67628	51000	50543	22217	2397	251	345871
Kittiwake	0.054	1309	373	1903	2226	6983	2648	10882	1884	6547	7796	6725	29437	78713
Guillemot	0.049	106	92	48	322	247	142	29	16	0	29	53	36	1121
Razorbill	0.050	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0.047	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	0.062	15247	4071	8815	3271	7106	7169	3620	0	0	0	6261	10268	65828
Pink-footed Goose	0.061	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0.058	. 0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0.051	0	0	0	0	0	0	0	0	11791	1777	0	0	13567
Lesser Black-backed Gull	0.060	0	0	0	410	1350	0	459	0	0	0	0	0	2219
Great Black-backed Gull	0.065	5027	0	0	0	0	1087	0	0	1928	0	2506	4948	15496
Large gulls combined	0.062	19187	3312	7170	3995	10170	7299	4435	0	2602	0	8474	15031	81675

Table 3.5.3 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012. Potential number of collisions assuming an avoidance rate of 95%.

Neart na Gaoithe 90 x 5M\	W												TOTAL
Species	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
Gannet	3	39				152							
Kittiwake	4	1					29			22			216
Guillemot	0					Ċ							
Razorbill	Ö												
Puffin	0	Č											
Herring Gull	51	13											
Pink-footed Goose	0									-			
Great Skua	Ö												
Little Gull	ō	č											
Lesser Black-backed Gull	0												
Great Black-backed Gull	18												
Large gulls combined	64	11	1 23	3 13	3 32	23	14						
Neart na Gaoithe 73 x 6.15	5MW - 126												TOTAL
	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.95
Gannet	2					115							
Kittiwake	3					5							
Guillemot	ō												
Razorbill	Ō												
Puffin	0												
Herring Gull	38	10) 21	1 8	3 17	17	8			C) 16	3 24	159
Pink-footed Goose	0	() () () (C	0	0	0	() () 0	0
Great Skua		() () () (C	0	0	0	(
	0												
Little Gull	0	() () () (C	0	0					
Lesser Black-backed Gull		() () (1 3	C	0	0	0	() (5
	0	() () () 1) (1 3) (0	0	0	0	() () 0	5
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined	0 0 13 48	() () () () 1) (1 3) (0 0 3	0 1	0 0	0 5	() () 0 7 12	5 40 198
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15	0 0 13 48 5MW - 152 Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittwake	0 0 13 48 55MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul 172	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot	0 0 13 48 55MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul 172 22 20	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2
esser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Bannet Kittiwake Guillemot Razorbill	5MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 May 1 148 1 148	Collisions per month with avoidance rate 0.95 Jun 115	Collisions per month with avoidance rate 0.95 Jul 172 22 0 0 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittitwake Guillemot Razorbill Puffin	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Mar 666 44 0 0 0	Collisions per month with avoidance rate 0.95 Apr 4 56 5 10 6 10 6 10 6 10 6 10 6 10 6 10 6 10 6	Collisions per month with avoidance rate 0.95 May 1 486 1 1486 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.95 Jun 115	Collisions per month with avoidance rate 0.95 Jul 1722	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin	5MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0 0 0 38	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 9 66 1 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Apr 4 5 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun 115 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul 1722 220 0 0 0 0 8 8	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 1 61 0 0 0 0 0 0 5 2 55	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose	0 0 0 133 48 55MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 0 0 0 0 3 8 0 0 0 0 3 8 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Mar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Apr 6 364 56 60 60 60 60 60 60 60 60 60 60 60 60 60	Collisions per month with avoidance rate 0.95 May 5 148 5 148 6 148 6 0 0 0	Collisions per month with avoidance rate 0.95 Jun 115	Collisions per month with avoidance rate 0.95 Jul 1722 222 0 0 8	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 4 11 4 11 5 00 6 00 7 25 7 00 8 25 9 00 10 00	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0
Lesser Black-backed Gull	5MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0 0 0 38	Collisions per month with with avoidance rate 0.95	Collisions per month with with Mar 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with with avoidance rate 0.95 Apr 6 364 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with with avoidance rate 0.95 May 148 5 148 5 14 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with with avoidance rate 0.95 Jun 115 5 6 0 17	Collisions per month with with avoidance rate 0.95 Jul 172 22 0 0 8	Collisions per month with with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 1 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull	0 0 13 48 5MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0 0 0 38 8 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 66 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.95 Apr 4 5 6 7 7 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	Collisions per month with avoidance rate 0.95 May 1 CO	Collisions per month with avoidance rate 0.95 Jun 115 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul 2222 8 0 0 0 0 0	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep 132 0 0 0 0 0 233	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 0 26
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua	0 0 0 13 48 55MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 3 0 0 0 38 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.95 Apr 4	Collisions per month with avoidance rate 0.95 May 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jun 115 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul 172 22 0 0 8 0 0 0 1 1 172	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0 0 0 0 23 0 0 0 0 23	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 1 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 26 5 5
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	5MW - 152 Collisions per month with avoidance rate 0.95 Jan 3 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 666 67 68 68 68 68 68 68 68 68 68 68 68 68 68	Collisions per month with avoidance rate 0.95 Apr 36 4 5 6 0 0 0 0 0	Collisions per month with avoidance rate 0.95 May 148 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.95 Jun 115 COLUMN 115 C	Collisions per month with avoidance rate 0.95 Jul 172 22 0 0 8 0 0 0 1 1 172	Collisions per month with avoidance rate 0.95 Aug 127 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 23 0 5 5	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 1 6 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 400 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 0 26 5 4 40
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull	SMW - 152 Collisions per month with avoidance rate 0.95 Jan 0 0 0 38 0 0 0 133 48	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar 660 100 100 100 100 100 100 10	Collisions per month with avoidance rate 0.95 Apr 36 4 5 6 0 0 0 0 0	Collisions per month with avoidance rate 0.95 May 148 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.95 Jun 115 COLUMN 115 C	Collisions per month with avoidance rate 0.95 Jul 172 20 00 00 88 00 01 110 01 01 01 01 01 01 01 01 01 01	Collisions per month with avoidance rate 0.95 Aug 127 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 23	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec 1 6 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 400 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 0 26 5 4 40
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Collisions per month with avoidance avoidance	Collisions per month with avoidance rate 0.95 Feb 25 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.95 Mar 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.95 4 5 6 7 6 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 8 7 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7	Collisions per month with avoidance rate 0.95 May 148 5 148 5 140 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Jun 115 5 0 0 0 17 0 0 17 0 0 0 17 0 0 0 0 0 0 0	Collisions per month with avoidance as 0.95 Jul 172 22 0 0 0 10 0 10 Collisions per month with avoidance avoidance	Collisions per month with avoidance avoidance	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with Nov 7 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Collisions per month with collisions per month with collisions per month collisions per month collisions per month collisions per month with with collisions per month with avoidance	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 159 0 159 0 0 159 159 159 159 159 159 159 159 159 159
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MN	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 (c.) (c.) (c.) (c.) (c.) (c.) (c.) (c.)	Collisions per month with avoidance rate 0.95 Golding to the collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 115 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 23 6 6	Collisions per month with avoidance Collisions per month with a collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 10 10 10 10 10 10 10 10 10 1	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 26 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lerge gulls combined Neart na Gaoithe 75 x 6MN Neart na Gaoithe 75 x 6MN	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun	Collisions per month with avoidance rate 0.95 Jul	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with Nov	Collisions per month with collisions per month with collisions per month with collisions per month collisions per month collisions per month with with collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC 198
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun 128	Collisions per month with avoidance per month with avoidance case per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jul	Collisions per month with avoidance per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 23 5 6 Collisions per month with avoidance rate 0.95 Sep 147	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Oct	Collisions per month with collisions not collisions per month with collisions not collisions not collisions not collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with 200 collisions per month 360 collisions per month with 360 collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Dec 12	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 26 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake	O 0 13 48 55MW - 152 Collisions per month with avoidance rate 0.95 Jan 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate o.95 Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar Solutions per month with avoidance rate 0.95 Mar 73	Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Apr Apr Solutions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun 115 Collisions per month with avoidance rate 0.95 Jun 128	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 United States of the	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Sep 147	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Oct 68	Collisions per month with avoidance rate 0.95 Collisions per month with 100 Collisions per month with 201 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 159 0 0 266 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 184
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Luil Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MM Species Gannet Kittiwake Guillemot Kittiwake Guillemot	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Feb Collisions per month of the collisions per month with avoidance rate 0.95 Feb 33	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun 128	Collisions per month with avoidance rate 0.95 Jul 172 22 20 00 00 110 Collisions per month with avoidance rate 0.95 Jul 193 25	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with Nov 7 21 21 21 21 21 21 21 21 21 21 21 21 21	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 159 0 159 0 0 26 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 988 184 2
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Lesser Black-backed Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill	Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Feb 33	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar 73 73 73	Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Apr A	Collisions per month with avoidance rate 0.95 (24) (24) (24) (25) (25) (25) (25) (25) (25) (25) (25	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun 128	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jul 172 Collisions per month with avoidance rate 0.95 Jul 193 255 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 147 147	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 184 2 0 0
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Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Pirik-footed Goose Great Skua Little Gull Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Gullemot Razorbill Lesser Black-backed Gull Large gulls combined	Collisions per month with avoidance rate 0.95 Jan Agents A	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar Table 17	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 May 1 165 May 1 26	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jun 128	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jul 10 Collisions per month with avoidance rate 0.95 Jul 133 25 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 233 0 5 6 Collisions per month with avoidance rate 0.95 Sep 147 177 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 988 1844 2 0 0 0 1777
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Reazorbill Puffin Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Reazorbill Puffin Herring Gull	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95 Jan 2 3 3 48	Collisions per month with avoidance rate 0.95 Feb 25 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.95 Mar Collisions per month with avoidance rate 0.95 Mar 3 73 Collisions per month with with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with a 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Collisions per month with avoidance rate 0.95 May 1 65 1 66 1 70 1 70 1 70 1 70 1 70 1 70 1 70 1 70	Collisions per month with avoidance rate 0.95 Jun 115 0 0 0 0 17 0 0 0 0 17 0 0 0 0 17 17 0 0 0 0	Collisions per month with avoidance rate 0.95 Jul Collisions per month with avoidance rate 0.95 Jul 172 0 0 0 10 0 10 0 10 10 10 10 10 10 10 1	Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug Collisions per month with with avoidance rate 0.95 Aug 127 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Oct Collisions per month with with avoidance rate 0.95 Oct 110 Collisions per month with avoidance rate 0.95 Oct	Collisions per month with Nov Collisions per month with with Nov Collisions per month Nov	Collisions per month with avoidance rate 0.95 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 0 0 159 0 0 26 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 184 2 0 0 1777 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Krittwake Guillemot Razorbill Pluffin Herring Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Krittwake Guillemot Razorbill Large gulls combined	SMW - 152 Collisions per month with avoidance rate 0.95 Jan 2	Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar Collisions per month with avoidance rate 0.95 Mar Solutions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 Collisions per month with avoida	Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun 128 6 0 0 0 0 170 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance of the collisions per month with avoidance of the collisions per month with avoidance of the collisions per month with avoidance at a 0.95 Jul 193 255 00 00 00 00 00 00 00 00 00 00 00 00 0	Collisions per month with avoidance of the collisions per month with avoidance of the collisions per month with avoidance of the collisions per month with avoidance at a 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep Collisions per month with a coldance rate 0.95 Collisions per month with avoidance rate 0.95 Sep 147 150 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions per month with a cold and cold	Collisions per month with avoidance rate 0.95 Collisions per month with collisions per month with collisions per month with collisions per month with avoidance rate 0.95 Collisions per month with co	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 400 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 184 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Lesser Black-backed Gull Lesser Black-backed Gull Lerser Black-backed Gull Lesser B	Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Feb 33	Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr 4 5 5 6 6 7 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 9 9 9	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Un 115 Collisions per month with avoidance rate 0.95 Jun 128 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 UCOllisions per month with avoidance rate 0.95 UCCOllisions per month with avoidance ra	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug 127	Collisions per month with avoidance rate 0.95 Sep 132 144 0 0 0 0 0 233 0 5 6 Collisions per month with avoidance rate 0.95 Sep 147 157 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct Collisions Collisions	Collisions per month with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Collisions per month with with avoidance rate 0.95 Nov 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 184 2 0 0 159 998 184 2 0 0 177 0 0 0 30 30 30
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Purfin Herring Gull Pink-footed Goose Great Skua Little Guil Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Herring Gull Pink-footed Goose Great Skua Little Guil Lesser Black-backed Gull Large gulls combined Neart na Gaoithe 75 x 6MV Species Gannet Kittiwake Guillemot Razorbill Herring Gull Pink-footed Goose Great Skua Little Gull Lesser Black-backed Gull Lesser Black-backed Gull	SMW - 152 Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 May	Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun Collisions per month with avoidance rate 0.95 Jun 128 6 6 6 6 7 7 6 7 7 7 8 8 8 8 8 8 8 8 8	Collisions per month with avoidance rate 0.95 Jul Collisions per month with avoidance rate 0.95 Jul Collisions per month with avoidance rate 0.95 Jul 100 000 000 000 000 000 000 000 000 0	Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep 132 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with Nov 7 1 21 Collisions per month with 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 159 0 0 26 5 40 198 TOTAL COLLISION S PER YEAR R PER YEAR WITH AVOIDANC E RATE OF 0.95 159 0 159 0 0 26 5 40 198
Lesser Black-backed Gull Great Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Lesser Black-backed Gull Lesser Black-backed Gull Lerser Black-backed Gull Lesser B	Collisions per month with avoidance rate 0.95 Jan Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Feb Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Mar	Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Collisions per month with avoidance rate 0.95 Apr Apr Collisions per month with avoidance rate 0.95 Apr	Collisions per month with avoidance rate 0.95 May Collisions per month with avoidance rate 0.95 May 1 165 May 1 655 May 1 655 May 1 655 1 655 May 1 165 1 1	Collisions per month with avoidance rate 0.95 Jun 115 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Jun 128 Collisions per month with avoidance rate 0.95 Coll	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Jul 193 20 00 00 10 00 10 00 10 10 10	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Aug Collisions per month with avoidance rate 0.95 Aug 127	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Sep 132 Collisions per month with avoidance rate 0.95 Sep 147 150 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95 Oct Collisions per month with avoidance rate 0.95	Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 894 163 2 0 0 1599 0 0 266 5 40 198 TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95 998 12 0 0 0 1777 0 0 0 0 30 6 444

Table 3.5.4 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012. Potential number of collisions assuming an avoidance rate of 98%.

	COIIISI	Ulis as											
Neart na Gaoithe 90 x 5M\	w												
	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	Collisions per month with avoidance	TOTAL COLLISION S PER YEAR WITH AVOIDANC
0	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	rate 0.98	E RATE OF
Species Gannet	Jan 1	Feb 16	Mar 35	Apr 19	May ∋ 78	Jun 61	Jul 91	Aug 67	Sep 70	Oct 31	Nov 3	Dec 0	0.98 473
Kittiwake	2												
Guillemot	0												1
Razorbill	0												
Puffin	0												0
Herring Gull Pink-footed Goose	20												85 0
Great Skua	0												
Little Gull	0	C) 0) (0) () 0		12	2	: c	0	
Lesser Black-backed Gull	0												
Great Black-backed Gull	7												
Large gulls combined	26	4	1 9	,	5 13	, ,) 5	; C	3	() 11	l 19	105
Neart na Gaoithe 73 x 6.15	5MW - 126												TOTAL COLLISION
	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	Collisions per month	S PER YEAR
	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	with avoidance rate 0.98	WITH AVOIDANC E RATE OF
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.98
Gannet	1	12	2 26	3 15	5 59	46	69	51	53	24	. 3	3 0	357
Kittiwake	1								5				
Guillemot	0												
Razorbill Puffin	0												
Herring Gull	15												
Pink-footed Goose	0												
Great Skua	0												
) 0						9	1) 0	11
Little Gull	0) (
Lesser Black-backed Gull	0) 0) () 1	() 0		0	() (0	
	0 5 19	0	0 0) (0 1) 1	0	0	0 2	. () (0 0	16
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15	55MW - 152 Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15	55MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet	5 5 5 5 6 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Gannet Kittiwake	55MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul 69	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Mar 2 26	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357 65 1 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Dec 3 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357 65 1 0 0
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin	5MW - 152 Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Collisions per month with avoidance rate 0.88 Apr	Collisions per month with avoidance rate 0.98 May 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul 69	Collisions per month with avoidance rate 0.98 Aug	Collisions per month with avoidance rate 0.98 Sep 53 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	0 0 5 5 1 14	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357 65 1 0 0 64
Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.18 Species Gannet Kittiwake Guillemot Razorbill Puffin Herring Gull Herring Gull Pink-footed Goose Great Skua	0 5 5 19 19 19 19 19 19 19 19 19 19 19 19 19	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Apr 10 10 10 10 10 10 10 10 10 10 10 10 10	Collisions per month with avoidance rate 0.98 May 5 2 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Jun	Collisions per month with avoidance rate 0.98 Jul 689	Collisions per month with avoidance rate 0.98	Collisions per month with avoidance rate 0.98 Sep 53 0 0 0 0	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec 0 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 357 65 65 0 0 64 0 0 0
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Lesser Black-backed Gull Great Black-backed Gull Large gulls combined Neart na Gaoithe 73 x 6.15 Species Gannet Kittiwake Guillemot Razorbill Puffin Lesser Black-backed Gull Lesser Black-backed	SMW - 152 Collisions per month with avoidance rate 0.98 Jan Collisions per month with 1000 000 000 000 000 000 000 000 000 0	Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb Collisions per month with avoidance rate 0.98 Feb 13 Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.98 Apr Collisions per month with avoidance rate 0.98 Apr Collisions per month with with avoidance rate 0.98 Apr	Collisions per month with avoidance rate 0.98 May May 62 C C C C C C C C C C C C C C C C C C	Collisions per month with avoidance rate 0.98 Jun Collisions per month with avoidance rate 0.98 Jun Collisions per month with with avoidance rate 0.98 Jun Solvins Sol	Collisions per month with avoidance rate 0.98 Jul Collisions per month with a solid per mo	Collisions per month with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Collisions per month with with avoidance rate 0.98 Aug Collisions per month with avoidance rate 0.98 Aug 577 20 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance rate 0.98 Collisions per month with avoidance rate 0.98 Sep Collisions per month with avoidance rate 0.98 Sep 60 00 00 00 00 00 00 00 00 0	Collisions per month with avoidance rate 0.98 Oct Collisions per month with avoidance rate 0.98 Oct Collisions per month with avoidance rate 0.98 Oct	Collisions per month with Nov Service Collisions per month with Service Co	Collisions per month with avoidance rate 0.98	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.98 TOTAL COLLISION S PER YEAR WITH 1 0 0 0 11 2 16 79 TOTAL COLLISION S PER WITH 1 0 0 79 74 1 1 0 0 71 0 0 71 0 0 71 0 12 2 2 2 2

Table 3.5.5 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012. Potential number of collisions assuming an avoidance rate of 99%.

leart na Gaoithe 90 x 5MV	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANG E RATE OF 0.99
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erring Gull	10		3 6	3 :	2 4	1 4	. 2	2 () () 4	4 7	' 4
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reat Skua	0) (0 (0 0	
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	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	rate 0.99	E RATE C
ecies	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	0.99
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ge gulls combined art na Gaoithe 73 x 6.15 cicles nnet	5MW - 152 Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISIO S PER YEAR WITH AVOIDAN E RATE CO
pe gulls combined Int na Gaoithe 73 x 6.15 Incies Incies Incies Washe	5MW - 152 Collisions per month with avoidance rate 0.99 Jan 0	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISIO S PER YEAR WITH AVOIDAN E RATE CO
ge gulls combined urt na Gaoithe 73 x 6.15 ucies ucies unet wake llemot corbill	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE C 0.99
ge gulls combined urt na Gaoithe 73 x 6.15 cicles nnet wake llemotl orbill in	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99	Collisions per month with avoidance rate 0.99 May	Collisions per month with avoidance rate 0.99 Jun	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL COLLISIO S PER YEAR WITH AVOIDAN E RATE C 0.99
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ge gulls combined art na Gaoithe 73 x 6.15 actes nnet iwake illemot corbill fin ring Gull K-Kooted Goose	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May 7 1 33 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.99 Jun 233	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug 25	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISIC S PER YEAR WITH AVOIDAN E RATE C 0.99
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Table 3.5.6 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012. Potential number of collisions assuming an avoidance rate of 99.5%.

leart na Gaoithe 73 x 6.15MW - 152 Collisions per month with avoidance rate 0.995 rat	Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	per month with avoidance rate 0.995 Jun	Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995
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reat Black-backed Gull 1 0 0 0 0 0 0 0 1 0 1 1 4	pecies annet tittiwake uilliemot azorbill uffin erring Gull ink-footed Goose reat Skua ttle Gull sesser Black-backed Gull reat Black-backed Gull arge gulls combined eart na Gaoithe 75 x 6MV pecies annet tittiwake uilliemot azorbill uffin erring Gull ink-footed Goose rear Skua	Collisions per month with avoidance rate 0.995 V Collisions per month with avoidance rate 0.995 A Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jun Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul 10 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Aug 13 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 13 10 00 00 00 00 00 11 Collisions per month with avoidance rate 0.995 Sep 15 00 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 De C C C C C C C C C C C C C C C C C C C	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 6 166 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	paert na Gaoithe 73 x 6.18 pecies annet titiwake uilliemot azorbiil erring Gull nk-footed Goose real Skua tite Gull east Black-backed Gull eat Black-backed Gull inge gulls combined pecies annet tituwake uilliemot azorbiil uiffin erring Gull ink-footed Goose eat Skua tite Gull	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 V Collisions per month with avoidance rate 0.995 Jan Collisions per month of the collisions per month with avoidance rate 0.995 Jan Collisions per month of the col	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with a collisions per month with with avoidance rate 0.995 Mar Collisions per month with with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 May 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Collisions per month with avoidance rate 0.995 Jun 111 1 1 1 0	Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul Collisions per month with avoidance rate 0.995 Jul 19 20 20 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	Collisions per month with avoidance rate 0.995 Aug 13 COLLISION COLLIS	Collisions per month with avoidance rate 0.995 Sep 13 10 00 00 00 00 01 11 Collisions per month with with avoidance rate 0.995 Sep 15 00 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with with avoidance rate 0.905 Nov Collisions per month with with with with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 160 0 0 0 0 160 0 0 0 0 160 0 0 0 0 160 0
	pecies annet titwake illillemot azorbill ffin ering Gull nk-footed Goose eat Skua tie Gull rage gulls combined part na Gaoithe 75 x 6MV pecies annet titwake illillemot azorbill ffin ering Gull nk-footed Goose eat Skua titudake perit na Gaoithe 75 x 6MV pecies annet titwake illillemot azorbill ffin ering Gull nk-footed Goose eat Skua tite Gull	Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance rate 0.995 Mar Collisions per month with avoidance collisions collisions collisions collisions avoidance collisions coll	Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 May Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995	Collisions per month with avoidance rate 0.995 Jun 13	Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Collisions per month with avoidance rate 0.995 Jul	Collisions per month with avoidance rate 0.995 Aug 13 0 0 0 0 0 0 0 0 0 0 0 0 0	Collisions per month with avoidance rate 0.995 Sep 13 10 00 00 00 00 00 01 11 Collisions per month with with avoidance rate 0.995 Sep 15 20 00 00 00 00 00 00 00 00 00 00 00 00	Collisions per month with avoidance rate 0.995 Oct Collisions per month with avoidance rate 0.995 Oct Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov Collisions per month with collisions per month with avoidance rate 0.995 Nov Collisions per month with collisions per month with collisions per month with collisions per month with collisions per collisions p	Collisions per month with avoidance rate 0.995 Dec Collisions per month with Collisions collisions per month with Collisions per month with avoidance rate 0.995 Dec Collisions	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995 160 0 0 0 0 180 0 144 200 TOTAL COLLISION S PER WITH AVOIDANC E RATE OF 0.995 1 100 0 1

3.6 Results additional species

Table 3.6.1 Monthly densities of additional species at Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3).

	Density Density (birds/km2) (birds/km2)	Density (birds/km2)											
Species	Jan	Feb	Mar	Apr	_		Jul	Aug	Sep	Oct	Nov		
Red-throated diver	0	0	0			0	0	0	0.007	0	0	0	
Black-throated diver	0	0	0	900.0		0	0	0	0.007	0	0	0	
Bean Goose	0	0	0	0.007		0	0	0	0.008	0	0	0	
Pink footed goose	0	0	0	0.008	0	0	0	0	0.009	0	0	0	
Barnacle goose	0	0	0	0.007		0	0	0	0.008	0	0	0	
Bar-tailed godwit	0	0	0	0.007		0	0	0	0.008	0	0	0	
Black-tailed godwit	0	0	0	0.007		0	0	0	0.008	0	0	0	
Knot	0	0	0	0.00	0	0	0	0	0.007	0	0	0	
Curlew	0	0	0	0.008	0	0	0	0	0.008	0	0	0	
Dunlin	0	0	0	0.008	0	0	0	0	0.009	0	0	0	
Sanderling	0	0	0	0.008	0	0	0	0	0.009	0	0	0	
Grey plover	0	0	0	0.007		0	0	0	0.008	0	0	0	
Lapwing	0	0	0	0.010	0	0	0	0	0.011	0	0	0	
Ringed plover	0	0	0	900.0	0	0	0	0	0.007	0	0	0	
Redshank	0	0	0	0.013	0	0	0	0	0.014	0	0	0	
Turnstone	0	0	0	0.008	0	0	0	0	0.009	0	0	0	
Oystercatcher	0	0	0	0.010	0	0	0	0	0.011	0	0	0	
Arctic skua	0	0	0	0.00	0	0	0	0	0.010	0	0	0	
Great skua	0	0	0	0.008	0	0	0	0	0.009	0	0	0	
Common tern	0	0	0	0.012	0	0	0	0	0.013	0	0	0	
Arctic Tern	0	0	0	0.011	0	0	0	0	0.013	0	0	0	
Sandwich tern	0	0	0	0.011	0	0	0	0	0.012	0	0	0	

Table 3.6.2 Results of collision rate modelling for Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3). Potential number of transits through the rotor-swept area.

Species	Probability of collision during single rotor crossing	transits through	Potential number of transits through rotor-swept area Feb	Potential number of transits through rotor-swept area Mar	rotor-swept	Potential number of transits through rotor-swept area May	Potential number of transits through rotor-swept area Jun	Potential number of transits through rotor-swept area Jul	Potential number of transits through rotor-swept area Aug		Potential number of transits through rotor-swept area Oct	Potential number of transits through rotor-swept area Nov	Potential number of transits through rotor-swept area Dec	TOTAL transits through rotor-swept area per YEAR
Red-throated diver	0.065	0		0	36	0	0		. 0	36	0			73
Black-throated diver	0.068	0		0	18	0	0		0	18	0			36
Bean Goose	0.074	. 0		0	2317	0	0		0	2558	0			4875
Pink footed goose	0.070	0		0	2490	0	0		0	2748	0			5238
Barnacle goose	0.068	0		0	2317	0	0		0	2558	0			4875
Bar-tailed godwit	0.056	0) C	0	2317	0	0	0	0	2558	0	0		4875
Black-tailed godwit	0.056	0		0	2317	0	0		0	2558	0			4875
Knot	0.051	0) (0	2317	0	0		0	2558	0			4875
Curlew	0.063	0		0	2317	0	0		0	2558	0			4875
Dunlin	0.050	0		0	2317	0	0		0	2558	0			4875
Sanderling	0.051	0) C	0	2317	0	0	0	0	2558	0	0		4875
Grey plover	0.053	0		0	2317	0	0		0	2558	0			4875
Lapwing	0.058	0) (0	2317	0	0		0	2558	0			4875
Ringed plover	0.049	0) C	0	2317	0	0	0	0	2558	0	0		4875
Redshank	0.063	0) (0	2317	0	0		0	2558	0			4875
Turnstone	0.052	0) (0		0	0		0	2558	0			4875
Oystercatcher	0.063	0) (0	2317	0	0		0	2558	0			4875
Arctic skua	0.063) (0		0	0		0	69	0			139
Great skua	0.066	0		0	78	0	0	0	0	78	0	0		157
Common tern	0.065	0) (0	232	0	0		0	232	0			463
Arctic Tern	0.064	0		0	51	0	0	0	0	51	0	0	C	102
Sandwich tern	0.066	0) (0	66	0	0		0	66	0			131

Neart na Gaoithe 73 x 6.15MW - 126

Species	Probability of collision during single rotor crossing	transits through	Potential number of transits through t rotor-swept area Feb	Potential number of transits through rotor-swept area Mar	Potential number of transits through rotor-swept area Apr	Potential number of transits through rotor-swept area May	Potential number of transits through rotor-swept area Jun	Potential number of transits through rotor-swept area Jul	Potential number of transits through rotor-swept area Aug	Potential number of transits through rotor-swept area Sep	Potential number of transits through rotor-swept area Oct	Potential number of transits through rotor-swept area Nov	Potential number of transits through rotor-swept area Dec	TOTAL transits through rotor-swept area per YEAR
Red-throated diver	0.065) area mai			100 0011	1 00 001	alea Aug	28	area oct	area NOV	area Dec	55
Black-throated diver	0.068			, ,										
Bean Goose	0.000			, ,										3690
Pink footed goose	0.074										ď			3965
Barnacle goose	0.068			-			0				ď			
Bar-tailed godwit	0.056						0				Ö			3690
Black-tailed godwit	0.056) (. 0	. 0			0			3690
Knot	0.051	č) 0				Ō	Ō	0		ď	i d		3690
Curlew	0.063) (1754	0	0	0	0	1936	0			3690
Dunlin	0.050) (1754	0	0	0	0	1936	0			3690
Sanderling	0.051	Ċ) () 0	1754	0	0	0	0	1936	d			3690
Grey plover	0.053) () 0	1754	0	0	0		1936	0		. (3690
Lapwing	0.057) (0	1754	0	0	0	0	1936	0		. (3690
Ringed plover	0.049) (0	1754	0	0	0	0	1936	0		. (3690
Redshank	0.061	() (0	1754	0	0	0	0	1936	0			3690
Turnstone	0.052) (0	1754	0	0	0	0	1936	0			3690
Oystercatcher	0.062) (0	1754	0	0	0	0	1936	0			3690
Arctic skua	0.063) (0	52	0	0	0	0	52	0			105
Great skua	0.066) (0	59		0	0	0	59	0) (119
Common tern	0.063) (0			0	0	0	175	0) (351
Arctic Tern	0.063) (0	39		0	0	0	39	0		. (77
Sandwich tern	0.065) () (50	0	0	0	0	50	0			99

Table 3.6.2 continued

Neart na Gaoithe 73 x 6.15MW - 152

		transits through rotor-swept			Potential number of transits through rotor-swept					transits through rotor-swept				
Species	crossing	area Jan	area Feb	area Mar		area May	area Jun	area Jul	area Aug		area Oct	area Nov	area Dec	YEAR
Red-throated diver	0.054		0	0	33	0	0) (33	0	0	C	67
Black-throated diver	0.056		0	0	17	0) (17	0	0	C	33
Bean Goose	0.061	0	0	0			0) (2336	0	0	C	4452
Pink footed goose	0.058		0	0	2274	0	0) (2510	0	0	C	4784
Barnacle goose	0.056		0	0	2116	0	0) (2336	0	0	C	4452
Bar-tailed godwit	0.046		0	0	2116	0	0) (2336	0	0	C	4452
Black-tailed godwit	0.047		0	0	2116	0	0) (2336	0	0	C	4452
Knot	0.042		0	0	2116	0	0) (2336	0	0	C	4452
Curlew	0.052	. 0	0	0	2116	0	0) (2336	0	0	C	4452
Dunlin	0.042		0	0	2116	0	0) (2336	0	0	C	4452
Sanderling	0.042	. 0	0	. 0	2116	0	0) (2336	0	0	C	4452
Grey plover	0.044		0	0	2116	0	0) (2336	0	0	C	4452
Lapwing	0.048		0	. 0	2116	0	0) (2336	0	0	C	4452
Ringed plover	0.041	0	0	0	2116	0	0) (2336	0	0	C	4452
Redshank	0.051	0	0	0	2116	0	0) (2336	0	0	C	4452
Turnstone	0.043		0	0	2116	0	0) (2336	0	0	C	4452
Oystercatcher	0.051	0	0	. 0	2116	0	0) (2336	0	0	C	4452
Arctic skua	0.052	. 0	0	0	63	0	0) (63	0	0	C	127
Great skua	0.055		0	0	72	0	0) (72	0	0	C	143
Common tern	0.053		0	0	212	0	0) (211	0	0	C	423
Arctic Tern	0.052		0	0	47	0	0) (47	0	0	C	93
Sandwich tern	0.054				60	0) (60	0	0		120

	single rotor	transits through rotor-swept			transits through rotor-swept							rotor-swept		
Species		area Jan	area Feb	area Mar	area Apr	area May	area Jun	area Jul	area Aug		area Oct	area Nov	area Dec	YEAR
Red-throated diver	0.057		0	0	35	0	0	0	0	35	0	0	C	69
Black-throated diver	0.059		0	0	17	0	0	0	0		0	0	C	35
Bean Goose	0.064		0	0		0	0	0	0		0	0	C	4634
Pink footed goose	0.061	0	-	0	200.	0	0	0	0		0	0	C	4979
Barnacle goose	0.059		0	0	2203		0	0	0	2431	0	0	C	4634
Bar-tailed godwit	0.050	0	0	0		0	0	0	0	2431	0	0	C	4634
Black-tailed godwit	0.050		0	0		0	0	0	0		0	0	C	4634
Knot	0.046		0	0	2203	0	0	0	0	2431	0	0	C	4634
Curlew	0.055		0	0			0	0	0	2431	0	0	C	4634
Dunlin	0.045	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Sanderling	0.045		0	0	2203	0	0	0	0	2431	0	0	C	4634
Grey plover	0.047	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Lapwing	0.051	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Ringed plover	0.044	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Redshank	0.054	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Turnstone	0.046	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Oystercatcher	0.054	0	0	0	2203	0	0	0	0	2431	0	0	C	4634
Arctic skua	0.055	0	0	0	66	0	0	0	0	66	0	0	C	132
Great skua	0.057	0	0	0	75	0	0	0	0	75	0	0	C	149
Common tern	0.056	0	0	0	220	0	0	0	0	220	0	0	C	440
Arctic Tern	0.055	0	0	0	49	0	0	0	0	49	0	0	C	97
Sandwich tern	0.057	0	0	0	62	0	0	0	0	62	0	0	C	125

Table 3.6.3 Results of collision rate modelling for Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3). Potential number of collisions assuming an avoidance rate of 95%.

Neart na Gaoithe 90 x 5MW														
Species	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	with	per month with	per month with	with	Collisions per month with avoidance rate 0.95 Aug	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95	
Red-throated diver	C)	0	0	0	0	0 (0 () () () () (0	
Black-throated diver	C)	0	0	0	0	0 (0 () () () () (0	
Bean Goose	C)	0	0	7	0	0 (0 () 8	3 () () (,	
Pink footed goose	C)	0	0	7	0	0 (D () 8	3 () () () 15	
Barnacle goose	C)	0	0	6	0	0 (D () 7	' () () () 14	
Bar-tailed godwit	C)	0	0	5	0	0 (D () 6	6 () () (
Black-tailed godwit	C)	0	0	5	0	0 (D () 6	-) () () 11	
Knot	C)	0	0	5	0	0 (D () 5	, () () (
Curlew	C)	0	0	6	0	0 (D () 7	' () () () 13	
Dunlin	C)	0	0	5	0	0 (D () 5	, () () (,	
Sanderling	C)	0	0	5	0	0 (D () 5	, () () () 10	
Grey plover	C)	0	0	5	0	0 (D () 6	6 () () (
Lapwing	C)	0	0	6	0	0 (D () 6	6 () () () 12	
Ringed plover	C)	0	0	5	0	0 (D () 5	, () () (
Redshank	C)	0	0	6	0	0 (D () 7	' () () () 13	
Turnstone	C)	0	0	5	0	0 (D () 6	6 () () () 11	
Oystercatcher	C)	0	0	6	0	0 (D () 7	' () () () 13	
Arctic skua	C)	0	0	0	0	0 (D () () () () () 0	
Great skua	C)	0	0	0	0	0 (D () () () () () 0	
Common tern	C)	0	0	1	0	0 (0 () 1) () () 1	
Arctic Tern	C)	0	0	0	0	0 (D () () () () (, ,	
Conduish torn			0	0	0	0		n ,						

Neart na Gaoithe 73 x 6.15	MW - 126													
Species	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	per month with avoidance rate 0.95 Apr	per month with	per month with avoidance rate 0.95 Jun	per month with avoidance rate 0.95 Jul	with avoidance rate 0.95 Aug	with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	WITH AVOIDAN E RATE O 0.95	IC
Red-throated diver	0		0	0	0	•	-	0	0 (•	0	0
Black-throated diver	0		0	0	0	-	-	0	0 ()	-	0	0
Bean Goose	U		0	0	5	•	-	•	0 6			-		11
Pink footed goose Barnacle goose	U		0	0	5	-	-	0	0 6 0 <i>f</i>		,	•		12 10
Bar-tailed godwit			0	0	3	0	•	0	0 :		,	0	0	9
Black-tailed godwit	0		n N	0	4	-	-	-	0 5))	0	0	9
Knot			n	0	4	-	•	-	0 0	í	,	•	0	0
Curlew	0		n	0	5	-	•	-	0 5		1	0	•	10
Dunlin			0	0	4	-	•	-	0 4	í	,	0	0	0
Sanderling	0		n	0	4	-	-	-	0 -		5	0	0	8
Grey plover	0		n	0	4	-	-	-	0 -		,	-	0	8
Lapwing	Ö		n	0	4	-	•	-	0 - 0 <i>!</i>		i i	0	n	9
Ringed plover	Ů		n	0	4	-	0	0	0 4	Ĺ	i i	0	n	8
Redshank	Ö		0	0	4	-	-	-	0 #		i i	0	0	9
Turnstone	0		0	0	4	0	0	0	0 4)	0	0	8
Ovstercatcher	ō		0	Ō	4		Ō	Ō	0 5	5	5	0	0	10
Arctic skua	d		0	0	0	0	0	0	0 0) ()	0	0	0
Great skua	O		0	0	0	0	0	0	0 () ()	0	0	0
Common tern	0		0	0	0	0	0	0	0 () ()	0	0	1
Arctic Tern	Ö		0	0	0	0	0	0	0 () ()	0	0	0
Sandwich tern	0		0	0	0	0	0	0	0 () ()	0	0	0

Table 3.6.3 continued

Neart na Gaoithe 73 x 6.15MW - 152

Neart na Gaoithe 73 x 6.	15MW - 152												
Species	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	with avoidance rate 0.95 Mar	per month with avoidance rate 0.95 Apr	per monti with avoidance rate 0.95 May	n per month with e avoidance rate 0.95 Jun	per month with	per month with avoidance rate 0.95 Aug	with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
Red-throated diver	(0	0	0	0	0	0 (-
Black-throated diver	(•	0	0	0	0	0	0	0 (
Bean Goose			0 n	0	5	0	0	0	0 6				
Pink footed goose Barnacle goose	,	•	n n	0	5	0	0	0	0 6	; (
Bar-tailed godwit		•	n	0	4	0	0	0	0 6) 10
Black-tailed godwit			n	0	4	0	-	0	0 5		,		
Knot	ì	•	n	0	4	0	-	0	0 4				, ,
Curlew		n	0	0	5	0	-	0	0 5) () (10
Dunlin	i	-	0	0	4	0	-	0	0 4				
Sanderling	i	0	0	0	4	0	0	0	0 4) () (. 8
Grey plover	i	0	0	Ō	4	Ō	0	0	0 4) () 0	8
Lapwing	(0	0	0	4	0	0	0	0 5	; () () (9
Ringed plover	(0	0	0	4	0	0	0	0 4	. () () (8 (
Redshank	(0	0	0	4	0	0	0	0 5	; () () (9
Turnstone	(0	0	0	4	0	0	0	0 4	. () () (8 (
Oystercatcher	(0	0	0	5	0	0	0	0 5	; () () (10
Arctic skua	(0	0	0	0	0	0	0	0 () () () (0
Great skua	(•	0	0	0	0	-	0	0 (
Common tern	(0	0	0	0	•	0	0 (,) () () 1
Arctic Tern	(0	0	0	0		0	0 () () (0
Sandwich tern	(D	0	0	0	0	0	0	0 () () () () 0

Species	Collisions per month with avoidance rate 0.95 Jan	Collisions per month with avoidance rate 0.95 Feb	Collisions per month with avoidance rate 0.95 Mar	with	Collisions per month with avoidance rate 0.95 May	per month with	Collisions per month with avoidance rate 0.95 Jul	with	Collisions per month with avoidance rate 0.95 Sep	Collisions per month with avoidance rate 0.95 Oct	Collisions per month with avoidance rate 0.95 Nov	Collisions per month with avoidance rate 0.95 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.95
Red-throated diver	() (0	0	0	0	0 (0 () 0) () () (0 (
Black-throated diver	() (0	0	0	0	0 (0 () 0) () () () 0
Bean Goose	() (0	0	6	0	0 (0 () 7	' () () (13
Pink footed goose	() (0	0	6	0	0 (0 () 7	' () () (13
Barnacle goose	() (0	0	6	0	0	0 () 6	6 () () () 12
Bar-tailed godwit	() (0	0	5	0	0	0 () 5	, () () () 10
Black-tailed godwit	() (0	0	5	0	0 (0 () 5	5 () () () 10
Knot	() (0	0	4	0	0	0 () 5	, () () () 9
Curlew	() (0	0	5	0	0 (0 () 6	6 () () () 11
Dunlin	() (0	0	4	0	0	0 () 5	, () () (9
Sanderling	() (0	0	4	0	0 (0 () 5	5 () () (, 9
Grey plover	() (0	0	4	0	0 (0 () 5	5 () () (, 9
Lapwing	() (0	0	5	0	0 (0 () 5	5 () () () 10
Ringed plover	() (0	0	4	0	0 (0 () 5	5 () () (, 9
Redshank	() (0	0	5	0	0 (0 () 6	6 0) () () 11
Turnstone	() (0	0	4	0	0 (0 () 5	5 0) () (, 9
Oystercatcher	() (0	0	5	0	0 (0 () 6	6 0) () () 11
Arctic skua	() (0	0	0	0	0 1	0 () 0) () () (, 0
Great skua	() (0	0	0	0	0 1	0 () () () () (, 0
Common tern	() (0	0	1	0	0 (0 () 1) () (, 1
Arctic Tern	(U	U	U	U	U I	υ () (, 0
Sandwich tern	() (D	0	0	0	0 (0 () () () () (, 0

Table 3.6.4 Results of collision rate modelling for Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3). Potential number of collisions assuming an avoidance rate of 98%.

Neart na Gaoithe 90 x 5MW	,													
Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	with	per month with	per month with	per month with	with	per month with	per month with	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANG E RATE OF	3
Red-throated diver	0		0	0	0	-	0	-		-) ()	0
Black-throated diver	0		0	0	0	-	0	•		-) ()	0
Bean Goose	0		0	0	3		0	-	0 3) ()	6
Pink footed goose	0		-	0	3	-	0	•	0 3) ()	6
Barnacle goose	U		0	0	3		0	•	0 3) ()	5
Bar-tailed godwit	U		0	0	2	-	0	-	0 2	_) (,	5
Black-tailed godwit Knot	U		0	0	2	-	0	-	0 2) (,	2
Curlew	0		0	0	2	-	0	•	-	_) (,	5
Dunlin	0		0	0	2	-	0	•	0) ()	4
Sanderling	0		0	0	2	-	0	•	0 2	_) ()	4
Grey plover	0		0	0	2		0	-	0 2		, ,		ń	4
Lapwing	0	I	0	0	2	-	0	n	0 2	_	, ,		ń	5
Ringed plover	0		0	0	2	-	0	0	0 2		, i		Ď	4
Redshank	ō	I	0	0	2	0	0	0	0 3	3) ()	5
Turnstone	0	l ·	0	0	2	0	0	0	0 2	2) () (4
Oystercatcher	0	l ·	0	0	2	0	0	0	0 3	3) () ()	5
Arctic skua	0	l ·	0	0	0	0	0	0	0 () () () ()	0
Great skua	0	li e	0	0	0	0	0	0	0 () () () ()	0
Common tern	0	li e	0	0	0	0	0	0	0 () () () ()	1
Arctic Tern	0	li e	0	0	0	0	0	0	0 () () () ()	0
Sandwich tern	0		0	0	0	0	0	0	0 ()) () ()	0

Neart na Gaoithe 73 x 6.1	5MW - 126													
Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	with avoidance rate 0.98 Mar	per month with avoidance rate 0.98 Apr	per monti with avoidance rate 0.98 May	n per month with e avoidance rate 0.98 Jun	per month with avoidance rate 0.98 Jul	with avoidance rate 0.98 Aug	with avoidance rate 0.98 Sep	Collisions per month with avoidance rate 0.98 Oct	with avoidance rate 0.98 Nov	with avoidance rate 0.98 Dec	WITH AVOIDAN E RATE O 0.98	ıc
Red-throated diver	C		0	0	0	0	-	0	0 (•	0	0	0
Black-throated diver Bean Goose	(•	0	0	0	0	-	0	0 (n 2		0	0	0	0
	(0	0	2	0	•	•	0 2	-	0	0	0	5
Pink footed goose Barnacle goose		,	0	0	2	0	-	-	0 2		0	0	0	2
Bar-tailed godwit			0	0	2	0	•	0	0 2	-	0	0	0	4
Black-tailed godwit		,	0	0	2	0	-	-	0 2		0	0	0	3
Knot	Č		0	0	1	0	•	-	0 2	-	0	0	0	3
Curlew		,	0	0	2	0	-	-	0 2		0	0	0	4
Dunlin	Č	,	0	0	1	0	•	-	0 2	-	0	0	0	3
Sanderling	Č	i i	0	0	1	0	-	-	0 2		0	0	0	3
Grey plover	Č	-	0	0	2	0	-	-	0 2		n	0	0	3
Lapwing	č)	0	0	2	0	-	-	0 2		0	0	0	4
Ringed plover	Ċ)	0	0	1	0	0	0	0 2	2	0	0	0	3
Redshank	Ċ)	0	0	2	0	0	0	0 2	2	0	0	0	4
Turnstone	C)	0	0	2	0	0	0	0 2	2	0	0	0	3
Oystercatcher	C)	0	0	2	0	0	0	0 2	2	0	0	0	4
Arctic skua	C)	0	0	0	0	0	0	0 ()	0	0	0	0
Great skua	C)	0	0	0	0	0	0	0 ()	0	0	0	0
Common tern	0)	0	0	0	0	0	0	0 ()	0	0	0	0
Arctic Tern	C		0	0	0	0		0	0 (0	0	0	0
Sandwich tern	C)	0	0	0	0	0	0	0 ()	0	0	0	0

Table 3.6.4 continued

Neart na Gaoithe 73 x 6.15MW - 152

Neart na Gaoithe 73 x 6.1	5MW - 152													
Species	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	per month with	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANG E RATE ON	С				
Red-throated diver	() (0	0	0	0	0	0	0 () () () (0	0
Black-throated diver	() (0	0	0	0	0) () () (0	0
Bean Goose	() (-	0	2	0	0	0	٠.	2 () () (0	5
Pink footed goose	() (0	2	0	0	0		2 (0	5
Barnacle goose	() (-	0	2	0	0	0	-	2 () () (0	4
Bar-tailed godwit	(0	2	0	0	0		2 (0	3
Black-tailed godwit	(-	-	0	2	0	0	0		2 (0	3
Knot	() (0	1	0	0	0		2 (,		0	3
Curlew	() (-	0	2	0	0	0		2 (0	4
Dunlin	() (0	1	0	0	0		2 (0	3
Sanderling	() (-	0	1	0	0	0	0 :	-	,	•)	3
Grey plover	() (0	2	0	0	0		2 (,		0	3
Lapwing	() (-	0	2	0	0	0	-	2 (,		0	4
Ringed plover	() (0	1	0	0	0		2 (-	3
Redshank	(, ,	-	0	2	0	0	0		2 (•	0	4
Turnstone	() (0	2	0	0	0		2 (•	3
Oystercatcher	() (-	0	2	0	0	0	-	2 (,		0	4
Arctic skua	() (0	0	0	0	0) (0	0
Great skua	(-	-	0	0	0	0	0	-) (0	0
Common tern	() (-	0	0	0	0	0	0 () (0	0
Arctic Tern	() (-	0	U	U	U	0	U () (,	U
Sandwich tern	() (0	0	0	0	0	0	0 () () () (0	0

Neart na Gaoithe 75 x 6MV	Collisions per month with avoidance rate 0.98 Jan	Collisions per month with avoidance rate 0.98 Feb	Collisions per month with avoidance rate 0.98 Mar	Collisions per month with avoidance rate 0.98 Apr	per month with	Collisions per month with avoidance rate 0.98 Oct	Collisions per month with avoidance rate 0.98 Nov	Collisions per month with avoidance rate 0.98 Dec	TOTAL COLLISIO S PER YEAR WITH AVOIDANG E RATE O 0.98	С				
Red-throated diver	() (-	-	0	0	0	0	0	0 ()	0
Black-throated diver	() (-	-	0	0	0	0	0	0 (,	•)	0
Bean Goose	() '			2	0	0	0	0	3 () ()	5
Pink footed goose	() (-	-	2	0	0	0	0	3 (,) ()	5
Barnacle goose	()			2	0	0	0		2 () (-	5
Bar-tailed godwit	(-		2	0	0	0	-	-	,	•)	4
Black-tailed godwit Knot	(-			2	0	0	0		2 ()	4
	(-	-	_	0	0	0	-	2 (,	•	•	4
Curlew Dunlin	(-		2	0	0	0		2 (, ,) (•	4
Sanderling	(-	-	2	0	0	0	-	2 () (-	4
Grey plover	(2	0	0	0		2			-	4
Lapwing			-	-	2	0	0	0		2	-		-	4
Ringed plover			-		2	0	0	0		2			-	4
Redshank			-		2	0	0	0	-	2	,	•	•	4
Turnstone		,			2	0	0	0		2			•	4
Oystercatcher		,	-	-	2	0	0	0		2 .	,	, ,	•	4
Arctic skua		, i			0	0	0	0		_	i i		-	0
Great skua	Č	,	-	-	0	0	0	0	0	0 1	-) (ń	0
Common tern	č)			0	0	0	0	0	0 1			-	0
Arctic Tern	Č)	-	-	0	0	0	0	0	0 1	,) ()	0
Sandwich tern	Ċ		0	Ō	Ō	0	0	Ō	0	0 (5 6)	0

Table 3.6.5 Results of collision rate modelling for Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3). Potential number of collisions assuming an avoidance rate of 99%.

Neart na Gaoithe 90 x 5MW														
Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	with	with	per month with	with	per month with	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99	
Red-throated diver	0	. ()	0	0	0	0	0	0 0) (0)
Black-throated diver	0	. ()	0	0	0	0	0	0 0) (0)
Bean Goose	0	. ()	0			0	0	0 2	: 0		0	1 3	3
Pink footed goose	0	. ()	0	1	0	0	0	0 2	: 0		0	1 3	3
Barnacle goose	0	. ()	0	1	0	0	0	0 1			0	1 3	3
Bar-tailed godwit	0	. ()	0	1	0	0	0	0 1			0	. 2	!
Black-tailed godwit	0	. (0	1	0	0	0	0 1			0	. 2	
Knot	0	. ()	0	1	0	0	0	0 1			0	. 2	?
Curlew	0	. ()	0		•	0	0	0 1			0	. 3	
Dunlin	0	. ()	0	1	0	0	0	0 1			0	. 2	!
Sanderling	0	. ()	0	1	0	0	0	0 1			0	. 2	
Grey plover	0	. ()	0	1	0	0	0	0 1			0	. 2	?
Lapwing	0	. (0	1	0		0	0 1			0	. 2	
Ringed plover	0	. ()	0	1	0	0	0	0 1			0	. 2	!
Redshank	0	. ()	0	1	0	0	0	0 1			0	. 3	3
Turnstone	0	()	0	1	0	0	0	0 1			0	. 2	
Oystercatcher	0	. ()	0			0	0	0 1			0	. 3	3
Arctic skua	0	. ()	0	0	0	0	0	0 0) (0		1
Great skua	0	()	0	0	0	0	0	0 0) (0		j
Common tern	0)	0		0	-	0	0 0) (0		1
Arctic Tern	0	. ()	0	0	0	0	0	0 0) (0		j
Conducion torn			1	0	0	0	0	0						١

Neart na Gaoithe 73 x 6.15	5MW - 126													
Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	per month with	per monti with	h per month with	per month with	per month with	per month with	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	with avoidance rate 0.99 Dec	WITH AVOIDANC E RATE OF 0.99	
Red-throated diver	() (-	0	0	0	0	0	0 (•	•	0
Black-throated diver	() (-	0	0	0	0	0	0 () (0	-		0
Bean Goose	() (•	0	1	0	0	0	0	1 (0	•		2
Pink footed goose	() (-	0	1	0	0	0	0	!	0	•	0 2	2
Barnacle goose	() (0	0	1	0	0	0	0	1 '	0	0	0 2	2
Bar-tailed godwit	() (0	0	1	0	0	0	0	!	0	3	0 2	2
Black-tailed godwit	() (-	0	1	0	•	0	0	1 '	0	•		2
Knot	() (0	0	1	0	•	0	0	!	0	0		2
Curlew	(0	0	1	0	0	0	0	! '				2
Dunlin	() (0	0	1	0	0	0	0	!	0	•		2
Sanderling	(-	0	1	0	0	0	0	! '		•		2
Grey plover	() (-	0	1	0	•	0	0	!	0	•		2
Lapwing	(•	0	1	0	•	0	0	! '		•		2
Ringed plover	(0	0	1	0	0	0	0	!	0	-		2
Redshank	(0	0	1	0	0	0	0	1	0)		2
Turnstone	() (0	0	1	0	0	0	0	!	0	0		2
Oystercatcher	(0	1	0	0	0	0	1	0	•		2
Arctic skua	(•	•	0	0	0	0	0 (0)	0 (0
Great skua	() (-	0	0	0	-	0	0 ()	0	0	0 (J
Common tern	(U	0	U	0	U	0	0 (0	J	0 (0
Arctic Tern	(, (U	U	U	0	U	U	0 (U	J	U (J
Sandwich tern	() (U	0	0	0	U	0	0 () (0	0	0 (0

Table 3.6.5 continued

Neart na Gaoithe 73 x 6.15MW - 152

Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	with	per month with	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99	
Red-throated diver	ou.i			0	^ y	0	0 () () 0		n
Black-throated diver		,	, 1	0	0	0	0 (•	, ,	, ,	,) 0		'n
Bean Goose	Č	,	i i	0	1	0	0 (0 () 1	, o	,			,
Pink footed goose	Č	,)	0	1	0	0 (0 () 1	i) () ()		2
Barnacle goose	č) (0	Ō	1	0	0 (0 () 1	Ö) () 0	, 2	2
Bar-tailed godwit	Ċ) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Black-tailed godwit	C) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Knot	C) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Curlew	C) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Dunlin	C) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Sanderling	C) ()	0	1	0	0 (0 () 1	0) () 0) 2	2
Grey plover	C) (0	0	1	0	0 (0 () 1	0) () 0) 2	2
Lapwing	C) (0	0	1	0	0 () 1	0) (۰ 0) 2	2
Ringed plover	C) ()	0	1	0	0 (•) 1	0) (, 0) 2	2
Redshank	C) ()	0	1	0	0 () 1	0) (, 0) 2	2
Turnstone	C) ()	0	1	0	0 (•) 1	0) () 0) 2	2
Oystercatcher	C) ()	0	1	0	0 () 1	0) (, 0) 2	2
Arctic skua	() (0	0	0	0 (•) () () () 0) ()
Great skua	() ()	0	0	0	0 () () () () () (J
Common tern Arctic Tern	(0	0	0	0 () (, (, 0	, ,	J
Arctic Iern Sandwich tern	() (-	0	n n	0	0 () () () () () (J.
Sandwich telli		,	,	U	U	U			,	,	,		,	,

Neart na Gaoithe 75 x 6MW

Species	Collisions per month with avoidance rate 0.99 Jan	Collisions per month with avoidance rate 0.99 Feb	Collisions per month with avoidance rate 0.99 Mar	Collisions per month with avoidance rate 0.99 Apr	Collisions per month with avoidance rate 0.99 May	per month with	Collisions per month with avoidance rate 0.99 Jul	Collisions per month with avoidance rate 0.99 Aug	Collisions per month with avoidance rate 0.99 Sep	Collisions per month with avoidance rate 0.99 Oct	Collisions per month with avoidance rate 0.99 Nov	Collisions per month with avoidance rate 0.99 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.99	
Red-throated diver	() ()	0 ()	0 () () (0	0) (0	
Black-throated diver	() ()	0 ()	0 () () (0	0) (0	
Bean Goose	() ()	0 .	1	0 () () (1	0) (3	
Pink footed goose	() ()	0 .	1	0 () () (1	0) (3	
Barnacle goose	() (0	0 .	1	0 () () (1	0) (2	
Bar-tailed godwit	() (0	0 .	1	0 () () (1	0) (2	
Black-tailed godwit	() ()	0 .	1	0 () () (1	0) (2	
Knot	() (0	0 .	1	0 () () (1	0) (2	
Curlew	() ()	0 .	1	0 () () (1	0) (2	
Dunlin	() (0	0 .	1	0 () () (1	0) (2	
Sanderling	() ()	0 .	1	0 () () (1	0) (2	
Grey plover	() ()	0 .	1	0 () () (1	0) (2	
Lapwing	() ()	0 .	1	0 () () (1	0) (2	
Ringed plover	() ()	0 .	1	0 () () (1	0) (2	
Redshank	() ()	0 .	1	0 () () (1	0) (. 2	
Turnstone	() ()	0 .	1	0 () () (1	0) (2	
Oystercatcher	() ()	0 .	1	0 () (0 0	1	0) (. 2	
Arctic skua	() ()	0 ()	0 () () (0	0) (0	
Great skua	() ()	0 ()	0 () (0 0	0	0) (0	
Common tern	() ()	0 ()	0 () () (0	0) (. 0	
Arctic Tern	() ()	0 ()	0 () () (0	0) (0	
Sandwich tern	() ()	n (1	0 () (1 () (

TOTAL

Table 3.6.6 Results of collision rate modelling for Neart na Gaoithe development area as calculated from fluxes of 1,000 of each species passing during the months of April and September (see § 2.3). Potential number of collisions assuming an avoidance rate of 99.5%.

Neart na Gaoithe 90 x 5MW														
Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	per month with	per month with	per month with	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995	;
Red-throated diver	0) ()	0	0	0	0	0	0 () () () () (0
Black-throated diver	0) ()	0	0	0	0	0	0 () () () () (0
Bean Goose	0) ()	0	1	0	0	0	0 -	1 () () (,	1
Pink footed goose	0) ()	0	1	0	0	0	0 1	1 () () () :	2
Barnacle goose	0) ()	0	1	0	0	0	0 -	1 () () (,	1
Bar-tailed godwit	0) (-	0		0	0	0	0 -	1 () (,	1
Black-tailed godwit	0) (0		0	0	0	0 -	1 (,) (,	1
Knot	0) (0	•	0	0	0	0 1	1 (,) (,	1
Curlew	0) (-	0		0	0	0	0 1	1 (,) (1
Dunlin	0) ()	0	-	0	0	0	0 1	1 (,) (•	1
Sanderling	0) ()	0	-	0	0	0	0 1	1 (,) (1
Grey plover	0) (0		•	0	0	0 1	1 () () (,	1
Lapwing	0) (-	0		0	0	0	0 1	1 () () (,	1
Ringed plover	0) (0	-	•	0	0	0 1	1 () () (1
Redshank	0) ()	0		0	0	0	0 '	1 () () (1
Turnstone	0) ()	0		0	0	0	0 '	1 () () (1
Oystercatcher	0) ()	0	•	0	0	0	0 1	1 () () ()	1
Arctic skua	U) (0	-	0	0	0	0 () () (, ,	U
Great skua	0) ()	0	0	0	0	0	0 () () () () (0
Common tern	0			U	U	U	U	U	U () () () (, (U
Arctic Tern	0			0	U	0	0	U	0 () (, .) ()	U

Neart na Gaoithe 73 x 6.	15MW - 126													
Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	with avoidance rate 0.995 Mar	per month with avoidance rate 0.995 Apr	per month with avoidance	per month with avoidance rate 0.995 Jun	per month with avoidance rate 0.995 Jul	with avoidance rate 0.995 Aug	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	WITH AVOIDANC E RATE OF 0.995	
Red-throated diver	(-	0	0	0	0	-	0 (0 () (0 0)
Black-throated diver	(0	0	0	0	-	•	0 () (0 0)
Bean Goose	()	0	0	1	0	-	0	0 1	! () (0 1	
Pink footed goose	(0	0	1	0	-	0	0) (-	0 1 0 1	
Barnacle goose			0	0	0	0	•	0					0 1	
Bar-tailed godwit Black-tailed godwit		-	0	0	0	0	-	0	0 () () (0 1	
Knot	,	-	0	0	0	0	-	0		, ,	, ,	-	0 1	
Curlew			0	0	0	0		0	0 .	, ,			0 1	1
Dunlin	,	-	0	0	0	0	-	0) (-	0 1	
Sanderling			0	0	0	0	•	0	0 (, ,			0 1	1
Grey plover	,		0	0	0	0	-	0	0 (, (-	0 1	1
Lapwing			0	0	0	0	-	0	0 (, ,	,		0 1	1
Ringed plover		-	0	0	0	0	-	0	n (,	-	0 1	i
Redshank	č	-	ñ	o o	0	0	-	0	n (,	i i		0 1	i .
Turnstone	i)	n	0	0	n .	0	0	n () () () (0 1	i
Oystercatcher	Č)	0	0	0	0	-	0	0	i			0 1	i
Arctic skua	Ċ)	0	0	0	0	0	0	0 () () () (0 0)
Great skua	Ċ		Ō	Ō	Ō	ō	Ō	0	0 () () () (0 0)
Common tern	() (0	0	0	0	0	0	0 () () () (0 0)
Arctic Tern	Ċ		Ō	0	0	Ō	0	0	0 () (0 0)
Sandwich tern	() (0	0	0	0	0	0	0 () () () (0 0)

Table 3.6.6 continued
Neart na Gaoithe 73 x 6.15MW - 152

Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	Collisions per month with avoidance rate 0.995 Apr	Collisions per month with avoidance rate 0.995 May	per month with	with	per month with	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995	
Red-throated diver	0	C) (0	0	0	0	o .	0	. 0	0	0)
Black-throated diver	0	C) () (0	0	0	0	0 0	0	. 0	0	0)
Bean Goose	0	C) () .	1	0	0	0) 1	0	0	0	1	
Pink footed goose	0	C) () .	1	0	0	0) 1	0	0	0	1	
Barnacle goose	0	C) () (0	0	0	0) 1	0	. 0	0	1	1
Bar-tailed godwit	0	C) () (0	0	0	0	0 0	0	0	0	1	l
Black-tailed godwit	0	C) () (0	0	0	0	0 0	0		0	1	l
Knot	0	C) () (0	0	0	0	0	0	0	0	1	I
Curlew	0	C) () (0	0	0	0	0 1	0	0	0	1	I
Dunlin	0	C) () (0	0	0	0) 0	0	-	0	1	I
Sanderling	0	C) () (0	0	0	0	0	0		0	1	I
Grey plover	0	C) () (D	0	0	0) 0	0	. 0	0	1	1
Lapwing	0	C) () (0	0	0	0	0	. 0	. 0	0	1	
Ringed plover	0	C) () (D	0	0	0) 0	0	0	0	1	1
Redshank	0	C) () (0	0	0	0	0	. 0	. 0	0	1	
Turnstone	0	C) (D	0	0	0		. 0			1	
Oystercatcher	0	C) (D	0	0	0) 1	0	. 0		1	
Arctic skua	Ü	C) () (•	•	0		. 0	-	0		,
Great skua	U	U) () (D .	-	0	0) 0	. 0	-			,
Common tern	0	U			D .	0	0	0		. 0				,
Arctic Tern Sandwich tern	0	0) (D .	0	0	0) (. 0				,
Sandwich fem	U	· ·	,	, (U	U	U	U		U		U		,

Neart na Gaoithe 75 x 6	MW													
Species	Collisions per month with avoidance rate 0.995 Jan	Collisions per month with avoidance rate 0.995 Feb	Collisions per month with avoidance rate 0.995 Mar	with	with	per month with avoidance	per month with	per month with	Collisions per month with avoidance rate 0.995 Sep	Collisions per month with avoidance rate 0.995 Oct	Collisions per month with avoidance rate 0.995 Nov	Collisions per month with avoidance rate 0.995 Dec	TOTAL COLLISION S PER YEAR WITH AVOIDANC E RATE OF 0.995	;
Red-throated diver	C) (0	0	0	0	0	0	0 () () (0 0) (0
Black-throated diver	C) (0	0	0	0	0	0	0 () () () () (0
Bean Goose	C) (0	0	1	0	0	0	0 1	() (0 0) .	1
Pink footed goose	C) (0	0	1	0	0	0	0 1	() () 0) .	1
Barnacle goose	C) (0	0	1	0	0	0	0 1	() (0 0) .	1
Bar-tailed godwit	C) (0	0	0	0	0	0	0 1	() () 0) .	1
Black-tailed godwit	0) (0	0	0	0	0	0	0 1	() (0 0) .	1
Knot	C) (0	0	0	0	0	0	0 () () () 0) .	1
Curlew	0) (0	0	1	0	0	0	0 1	() (0 0) .	1
Dunlin	C) (0	0	0	0	0	0	0 () () () 0) .	1
Sanderling	C) (0	0	0	0	0	0	0 () () () 0) .	1
Grey plover	0) (0	0	0	0	0	0	0 () () () 0) .	1
Lapwing	C) (0	0	0	0	0	0	0 1	() (0 0) .	1
Ringed plover	0) (0	0	0	0	0	0	0 () () (0 0) .	1
Redshank	C) (0	0	1	0	0	0	0 1	() () 0) .	1
Turnstone	0) (0	0	0	0	0	0	0 () () (0 0) .	1
Oystercatcher	C) (0	0	1	0	0	0	0 1	() () 0) .	1
Arctic skua	0) (0	0	0	0	0	0	0 () () (0 0) (٥
Great skua	C) (0	0	0	0	0	0	0 () () () 0) (٥
Common tern	C) (0	0	0	0	0	0	0 () () () 0) (٥
Arctic Tern	C) (0	0	0	0	0	0	0 () () () 0) (0
Sandwich tern	0) (0	0	0	0	0	0	0 () () () () (0

4 Discussion

4.1 Collision rate modelling using the basic model - option 1

The results of the collision rate modelling for four wind farm variants in the Neart na Gaoithe development area are presented in chapter 6. For the 12 main species, these results are presented on the basis of densities of flying birds recorded in the development area during a three-year period. In addition, a further 22 species were assessed based on a fixed number of passages per year; these results are discussed at the end of this chapter. The results based on the mean density across the three years are discussed here in relation to the modelled estimates in order to prevent repetition.

A total of four wind farm variants were modelled. These variants differed in the type, size and operating characteristics of turbines as well as the numbers of turbines. These differences translate into differing collision risk for a single transit across the rotor-swept area and also the total number of transits through this area. In terms of the model used, in general a larger turbine relates to a lower collision risk per transit but a greater potential number of transits through the rotor-swept area for any given species. The total number of transits per wind farm is also influenced by the total number of turbines. For the variants modelled, the highest collision risk per transit was for the second smallest and that turbine with the fastest rotation speed (5MW Areva) and the lowest collision risk was for the second largest turbine (6.15MW 6M-152 RePower). The total number of transits per year was lowest for the variant with the fewest turbines (6.15MW 6M-126 RePower) and highest for the variant with the most turbines (5MW Areva).

For the model used, and for any given turbine, collision risk is related to the size and flight speed of the bird in question. Of the 12 species assessed, the largest, Northern Gannet, had the highest collision risk and the smallest, Puffin, the lowest. Collision risk per transit varied from 4.3% for Puffin with a 6.15MW (6M-152 RePower) turbine to 7.9% for Northern Gannet with the 5MW (Areva) and 6.15MW (6M-126 RePower) turbines. The combination of this collision risk and the potential number of transits resulted in the species-specific and variant-specific collision rates to which various avoidance factors were applied. This avoidance factor reduces the estimated numbers of collisions proportionately. Here avoidance rates of 95%, 98%, 99% and 99.5% were applied, which reduced the estimated numbers of collisions correspondingly.

The application of avoidance rates reduced the estimated number of collisions per year. For the highest collision rate calculated before avoidance (appendix 1), for Northern Gannet and the 90 x 5MW Areva variant, an avoidance rate of 99% reduced the estimated number of collisions to 237 per year; for a rate of 99.5% this was 118 estimated collisions per year.

The estimated numbers of collisions for the 22 additional species are fairly similar between species. This is a consequence of the identical fluxes and similar proportions flying at rotor height used. The latter value was taken from literature and for many species was a generic value leading to identical values being used for all species within a group, *i.e.* geese. The differences in results are therefore mainly due to bird characteristics (size and flight speed) and are relatively small compared. The numbers of birds used in the model is directly proportional to the estimated numbers of collisions. Therefore, increasing the flux two-fold would double the numbers of collisions. In this respect the results for these additional species, which are based on a known number of flights, provide a useful reference for species seldom recorded during the field surveys.

The estimates of collision rates for birds at Neart na Gaoithe development area were produced using the SOSS Band model, which makes a number of assumptions and simplifications of birds, turbines and their interactions. Furthermore, simplification of input data adds to the variability and uncertainty of output values. The main sources of uncertainty are outlined in Band (2012) and include, amongst others, the use of fixed parameters for dynamic variables like wingspan, flight speed, flight direction, turbine speed, wind speed and bird abundance. Uncertainly also exists in the data for bird abundance, which often shows high variability, both spatially and temporally. These factors influence the uncertainty surrounding estimates to varying degrees, however, it is arguably avoidance behaviour that has most influence on this uncertainty. Currently, few published figures exist for the level of avoidance exhibited by birds in relation to wind turbines, certainly for the offshore environment. This, coupled with the strong influence of the avoidance rate on the modelled results, means that the uncertainty arising from avoidance rates used are likely to overshadow any uncertainty resulting due to other factors. Band (2012) outlines the uncertainty surrounding the modelled results should be expressed numerically. For most factors. however, these cannot be assessed empirically and would therefore be an ambiguous appraisal of the error involved.

5 Literature

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Appendix 1

Results of collision rate modelling for Neart na Gaoithe development area assuming no avoidance.

Table A.1.1 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2010. Potential number of collisions per year assuming no avoidance.

Neart na Gaoithe 90 x 5MW

	Collisions per month NO AVOIDANCE											
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet	39	110	3007	947	1288	1971	748	1344	2521	1035	116	0
Kittiwake	0		0	36	245	115	238	37	865	677	97	61
Guillemot	0	. 3	1	15	13	1	0	0	0	3	1	0
Razorbill	0		0	0	0	0	0	0	0	0	0	0
Puffin	0		0	0	0	0	0	0	0	0	0	0
Herring Gull	842	252	1133	308	0	329	0	0	0	0	825	1043
Pink-footed Goose	0		0	0	0	0	0	0	0	0	0	0
Great Skua	0		0	0	0	0	0	0	0	0	0	0
Little Gull	0		0	0	0	0	0	0	0	281	0	0
Lesser Black-backed Gull	0		0	74	84	0	81	0	0	0	0	0
Great Black-backed Gull	354	. 0	0	0	0	0	0	0	194	0	173	493
Large gulls combined	1146	206	925	503	285	269	277	0	252	0	899	1491

Neart na Gaoithe 73 x 6.15MW - 126

	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO	Collisions per month NO	Collisions per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE
Species	Jan	Feb	Mar	Apr	AVOIDANCE May	AVOIDANCE Jun	AVOIDANCE Jul	AVOIDANCE	Sep	AVOIDANCE Oct	Nov	Dec
												Dec
Gannet	29	83	2267			1486		1013		781	87	0
Kittiwake	0	0	0	27	184	87	179	28	652	510	73	46
Guillemot	0	2	. 1	11	10	1	0	0	0	2	1	0
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	632	189	851	231	0	247	0	0	0	0	620	783
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	0	210	0	0
Lesser Black-backed Gull	0	0	0	56	63	0	61	0	0	0	0	0
Great Black-backed Gull	267	0	0	0	0	0	0	0	146	0	131	372
Large gulls combined	862	155	696	379	214	202	208	0	189	0	676	1121

Neart na Gaoithe 73 x 6.15MW - 152

	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	NO	Collisions per month NO AVOIDANCE						
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet	29					1489		1015		782	88	0
Kittiwake	0	0	0	27	185	87	179	28	652	511	73	46
Guillemot	0	2	1	11	10	1	0	0	0	2	1	0
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	634	190	852	232	0	247	0	0	0	0	621	785
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	0	210	0	0
Lesser Black-backed Gull	0	0	0	56	63	0	61	0	0	0	0	0
Great Black-backed Gull	267	0	0	0	0	0	0	0	147	0	131	372
Large gulls combined	864	155	697	379	215	202	208	0	189	0	677	1123

	Collisions per month											
	NO											
	AVOIDANCE											
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gannet	32	92	2524	800	1087	1661	634	1141	2119	865	97	0
Kittiwake	0	0	0	31	210	99	205	32	739	574	82	52
Guillemot	0	2	. 1	13	12	1	0	0	0	3	1	0
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	694	211	953	261	0	278	0	0	0	0	690	875
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	0	237	0	0
Lesser Black-backed Gull	0	0	0	63	71	0	69	0	0	0	0	0
Great Black-backed Gull	292	0	0	0	0	0	0	0	164	0	145	414
Large gulls combined	946	173	779	427	241	227	235	0	212	0	753	1252

Table A.1.2 Results of collision rate modelling for Neart na Gaoithe development area between November 2010 and October 2011. Potential number of collisions per year assuming no avoidance.

	Collisions per month NO AVOIDANCE	NO	Collisions per month NO AVOIDANCE	TOTAL COLLISION S per YEAR NO									
Species	Jan	Feb		Apr	May	Jun		Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	76	2116	524	1304	6623	5140	10627	5571	4370	1991	0	35	41866
Kittiwake	32	62	33	254	466	158	1307	148	105	451	0	3167	6745
Guillemot	4	2	3	27	11	9	4	2	0	1	0	1	70
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	1649	529	567	0	0	1012	0	0	0	0	0	258	4379
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	1840	0	0	0	2007
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	173	0	0	0	0	213	0	0	188	0	0	162	804
Large gulls combined	1571	432	463	0	0	1102	0	0	244	0	0	421	4618

Neart na Gaoithe 73 x 6.15MW - 126

	Collisions per month NO	Collisions per month NO	Collisions per month NO	NO	NO	NO	Collisions per month NO	per month	TOTAL COLLISION S per YEAR				
	AVOIDANCE			AVOIDANCE		AVOIDANCE		AVOIDANCE			AVOIDANCE		
Species	Jan	Feb		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		AVOIDANCE
Gannet	57	1595	395	984	4994	3875	8013	4201	3295	1501	0	26	31566
Kittiwake	24	47	25	191	351	119	984	112	79	340	0	2385	5080
Guillemot	3	1	2	21	8	7	3	2	. 0	0	0	1	53
Razorbill	C	0	0	0	0	0	C	0	0	0	0	0	0
Puffin	C	0	0	0	0	0	C	0	0	0	0	0	0
Herring Gull	1238	397	426	0	0	760	C	0	0	0	0	194	3289
Pink-footed Goose	C	0	0	0	0	0	C	0	0	0	0	0	0
Great Skua	C	0	0	0	0	0	C	0	0	0	0	0	0
Little Gull	C	0	0	0	0	0	C	0	1370	0	0	0	1494
Lesser Black-backed Gull	C	0	0	0	0	0	C	0	0	0	0	0	0
Great Black-backed Gull	131	0	0	0	0	160	C	0	142	0	0	122	606
Large gulls combined	1182	325	348	0	0	829	C	0	183	0	0	317	3473

Neart na Gaoithe 73 x 6.15MW - 152

	Collisions per month NO	TOTAL COLLISION S per YEAR											
	AVOIDANCE	AVOIDANCE	AVOIDANCE	AVOIDANCE		AVOIDANCE		AVOIDANCE	AVOIDANCE		AVOIDANCE	AVOIDANCE	
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	57	1598	396	985	5003	3883	8028	4209	3301	1504	0	26	31626
Kittiwake	24	47	25	192	351	119	985	112	79	340	0	2388	5087
Guillemot	3	1	2	21	8	7	3	2	. 0	0	0	1	53
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	1241	398	427	0	0	761	0	0	0	0	0	194	3295
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	1372	0	0	0	1497
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	131	0	0	0	0	161	0	0	142	0	0	123	607
Large gulls combined	1184	326	349	0	0	830	0	0	184	0	0	317	3479

	Collisions per month	TOTAL COLLISION											
	NO	S per YEAR											
	AVOIDANCE		AVOIDANCE	AVOIDANCE		AVOIDANCE		AVOIDANCE				AVOIDANCE	
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	62	1768	440	1103	5592	4333	9011	4729	3674	1662	0	29	35349
Kittiwake	27	53	28	218	399	135	1126	128	90	383	0	2692	5759
Guillemot	3	1	3	24	10	8	4	. 2	. 0	1	0	1	61
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	1360	443	477	0	0	855	0	0	0	0	0	216	3656
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	1562	0	0	0	1704
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Black-backed Gull	143	0	0	0	0	180	0	0	159	0	0	136	674
Large gulls combined	1297	362	390	0	0	933	0	0	206	0	0	353	3863

Table A.1.3 Results of collision rate modelling for Neart na Gaoithe development area between November 2011 and October 2012. Potential number of collisions per year assuming no avoidance.

	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	NO NO	NO	Collisions per month NO AVOIDANCE	NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	TOTAL COLLISION S per YEAR NO				
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	38	112	1683	643	3828	2038	2322	3177	3610	1663	231	0	21105
Kittiwake	194	0	284	72	432	155	195	109	105	172	672	0	2607
Guillemot	12	3	3	4	11	10	0		0	1	4	0	53
Razorbill	C	0	0	0	0	0	0		0	0	0	0	0
Puffin	C	0	0	0	0	0	0		0	0	0	0	0
Herring Gull	553	0	0	306	1342	0	668		0	0	0	0	3130
Pink-footed Goose	C	0	0	0	0	0	0		0	0	0	0	0
Great Skua	C	0	0	0	0	0	0		0	0	0	0	0
Little Gull	0	0	0	0	0	0	0		0	0	0	0	0
Lesser Black-backed Gull	C	0	0	0	161	0	0		0	0	0	0	176
Great Black-backed Gull	523	0	0	0	0	0	0		0	0	172	0	759
Large gulls combined	1130	0	0	250	1644	0	545	0	0	0	223	0	4137

Neart na Gaoithe 73 x 6.15MW - 126

	Collisions per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO	NO	Collisions per month NO AVOIDANCE	TOTAL COLLISION S per YEAR							
Species	Jan	Feb	Mar		May	Jun		Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	29	85	1269		2886	1536				1254	174	0	15913
Kittiwake	146	0	214	54	325	117	147	82	79	129	506	0	1964
Guillemot	9	2	2	3	8	8	0	0	0	0	3	0	40
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	416	0	0	230	1008	0	501	0	0	0	0	0	2351
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	0	0	0	0	121	0	0	0	0	0	0	0	132
Great Black-backed Gull	394	0	0	0	0	0	0	0	0	0	130	0	572
Large gulls combined	850	0	0	188	1236	0	410	0	0	0	168	0	3112

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	Collisions per month NO AVOIDANCE	NO	Collisions per month NO	Collisions per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	TOTAL COLLISION S per YEAR				
Species	Jan	Feb	Mar	Apr	May	Jun		Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	29	85	1271	486		1539				1257	174	0	15943
Kittiwake	147	0	215	54	326	117	147	83	79	129	507	0	1967
Guillemot	9	2	2	3	8	8	0		0	0	3	0	40
Razorbill	0	0	0	0	0	0	0		0	0	0	0	0
Puffin	0	0	0	0	0	0	0		0	0	0	0	0
Herring Gull	416	0	0	230	1010	0	502		0	0	0	0	2355
Pink-footed Goose	0	0	0	0	0	0	0		0	0	0	0	0
Great Skua	0	0	0	0	0	0	0		0	0	0	0	0
Little Gull	0	0	0	0	0	0	0		0	0	0	0	0
Lesser Black-backed Gull	0	0	0	0	121	0	0		0	0	0	0	133
Great Black-backed Gull	395	0	0	0	0	0	0		0	0	130	0	573
Large gulls combined	851	0	0	188	1239	0	411	0	0	0	168	0	3117

	Collisions per month NO		TOTAL COLLISION S per YEAR										
	AVOIDANCE			AVOIDANCE		AVOIDANCE		AVOIDANCE			AVOIDANCE	AVOIDANCE	
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	31	94	1413	544	3232	1718	1969	2697	3035	1389	192	0	17797
Kittiwake	162	0	243	62	371	133	168	94	89	146	569	0	2222
Guillemot	11	2	2	4	10	9	0	0	0	1	4	0	46
Razorbill	C	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	C	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	456	0	0	260	1136	0	568	0	0	0	0	0	2640
Pink-footed Goose	C	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	C	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	C	0	0	0	0	0	0	0	0	0	0	0	0
Lesser Black-backed Gull	C	0	0	0	137	0	0	0	0	0	0	0	150
Great Black-backed Gull	432	0	0	0	0	0	0	0	0	0	144	0	628
Large gulls combined	933	0	0	212	1393	0	464	. 0	0	0	187	0	3479

Table A.1.4 Results of collision rate modelling for Neart na Gaoithe development area between November 2009 and October 2012; mean of all three years. Potential number of collisions per year assuming no avoidance.

	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	per month	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	per month NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	TOTAL COLLISIONS per YEAR NO
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	51	780	1738	964	3908	3043	4557	3361	3500	1564	173	17	23657
Kittiwake	76	21	106	121	380	143	579	98	358	434	384	1617	4316
Guillemot	5	4	2	15	12	7	1	1	0	1	3	2	54
Razorbill	0	0	0	0	0	0	0	0	0	0	0	0	0
Puffin	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring Gull	1016	261	567	205	447	446	223	0	0	0	413	652	4229
Pink-footed Goose	0	0	0	0	0	0	0	0	0	0	0	0	0
Great Skua	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Gull	0	0	0	0	0	0	0	0	613	94	0	0	707
Lesser Black-backed Gull	0	0	0	25	82	0	27	0	0	0	0	0	133
Great Black-backed Gull	350	0	0	0	0	71	0	0	127	0	173	329	1050
Large gulls combined	1284	213	463	251	643	456	274	0	165	0	562	958	5268

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	Collisions per month NO AVOIDANCE	NO	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	TOTAL COLLISIONS per YEAR NO								
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	38	588	1310	727	2946	2294	3436	2534	2639	1179	131	13	17837
Kittiwake	57	16	80	91	287	107	436	74	270	327	289	1218	3250
Guillemot	4	3	2	12	9	5	1	1	0	1	2	1	41
Razorbill	0	0	0		0	0	0	0	0	0	0	0	0
Puffin	0	0	0		0	0	0	0	0	0	0	0	0
Herring Gull	763	196	425	154	336	335	167	0	0	0	310	489	3176
Pink-footed Goose	0	0	0		0	0	0	0	0	0	0	0	0
Great Skua	0	0	0		0	0	0	0	0	0	0	0	0
Little Gull	0	0	0		0	0	0	0	456	70	0	0	526
Lesser Black-backed Gull	0	0	0	19	61	0	20	0	0	0	0	0	100
Great Black-backed Gull	264	0	0		0	53	0	0	96	0	130	248	792
Large gulls combined	966	160	348	189	483	343	206	0	124	0	422	720	3962

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	Collisions per month NO	NO	TOTAL COLLISIONS per YEAR										
Species	AVOIDANCE Jan	AVOIDANCE Feb	AVOIDANCE Mar		AVOIDANCE May	AVOIDANCE Jun	AVOIDANCE Jul		AVOIDANCE	AVOIDANCE Oct	AVOIDANCE Nov	AVOIDANCE Dec	AVOIDANCE
				Apr				Aug	Sep				
Gannet	38		1313									13	17870
Kittiwake	57	16	80	91	287	108	437	74	270	327	290	1220	3255
Guillemot	4	1 3	2	12	9	5	1	1 1	0	1	2	1	41
Razorbill	C) (0	0	0	0) (0	0	0	0	0
Puffin	C) (0	0	0	0) (0	0	0	0	0
Herring Gull	764	196	426	154	337	336	167		0	0	311	490	3182
Pink-footed Goose	C) (0	0	0	0) (0	0	0	0	0
Great Skua	C) (0	0	0	0) (0	0	0	0	0
Little Gull	C) (0	0	0	0) (457	70	0	0	527
Lesser Black-backed Gull	C) (0	19	62	0	20) (0	0	0	0	101
Great Black-backed Gull	265		0	0	0	53) (96	0	131	248	793
Large gulls combined	967	160	349	189	484	344	206		124	0	423	722	3969

	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE	Collisions per month NO AVOIDANCE		Collisions per month NO AVOIDANCE		TOTAL COLLISIONS per YEAR NO					
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Gannet	42	652	1459	815	3299	2566	3864	2853	2942	1306	145	15	19957
Kittiwake	63	18	90	104	326	122	499	85	306	368	326	1375	3681
Guillemot	5	i 4	. 2	13	10	6	1	1	0	1	2	2	47
Razorbill	C		0	0	0	0			0	0	0	0	0
Puffin	C		0	0	0	0			0	0	0	0	0
Herring Gull	838	218	477	174	379	377	189		0	0	346	547	3544
Pink-footed Goose	C		0	0	0	0			0	0	0	0	0
Great Skua	C		0	0	0	0			0	0	0	0	0
Little Gull	C		0	0	0	0			520	79	0	0	600
Lesser Black-backed Gull	C		0	21	69	0	23		0	0	0	0	114
Great Black-backed Gull	289	C	0	0	0	60	0		107	. 0	145	276	877
Large gulls combined	1060	179	390	213	545	386	233		139	0	470	804	4419

Table A.1.5 Results of collision rate modelling for Neart na Gaoithe development area as calculated from a flux of 1,000 of each species passing twice during a year, once in April and once in September (see § 2.3). Potential number of collisions assuming no avoidance.

	Collisions per	r Collisions per	TOTAL										
	month NO	month NO		month NO		month NO	month NO	month NO	month NO	month NO			COLLISIONS
	AVOIDANCE	AVOIDANCE	AVOIDANCE	AVOIDANCE	AVOIDANCE	per YEAR NO							
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Red-throated diver	0		0	2	. 0) () () () 2	0	0	. 0	4
Black-throated diver	0		0	1	0) () () () 1	0	0	. 0	2
Bean Goose	0		0	141	0) () () (157	0	0	. 0	298
Pink footed goose	0		0	144) () () (160	0	0	0	304
Barnacle goose	0		0	130	0) () () () 144	0	0	. 0	274
Bar-tailed godwit	0		0	107	0) () () () 119	0	0	. 0	226
Black-tailed godwit	0	C	0	107	0) () () (120	0	0	0	227
Knot	0		0	97) () () (108		0	0	206
Curlew	0		0	121	0) () () (135		0	. 0	255
Dunlin	0		0	97	0) () () (108	0	0	. 0	204
Sanderling	0	C	0	98	0) () () (109	0	0	0	206
Grey plover	0		0	101	0) () () (113	0	0	. 0	214
Lapwing	0		0	111	0) () () (124	0	0	. 0	235
Ringed plover	0	C	0	94	. 0) () () (105	0	0	0	198
Redshank	0		0	121	0) () () (135	0	0	0	257
Turnstone	0		0	100	0) () () (112	0	0	. 0	212
Oystercatcher	0	C	0	120	0) () () (134	0	0	0	254
Arctic skua	0	C	0	4	. 0) () () () 4	0	0	0	7
Great skua	0		0	4	. 0) () () () 4	0	0	0	9
Common tern	0	C	0	12	. 0) () () () 13	0	0	0	25
Arctic Tern	0		0	3	. 0) () () () 3	0	0	0	5
Sandwich tern	0		0	4	. 0) () () () 4	0	0	. 0	7

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	month NO	month NO	month NO	r Collisions pe month NO	month NO	month NO	month NO	month NO	month NO	month NO	month NO	month NO	COLLISIONS
0	AVOIDANCE	AVOIDANCE	AVOIDANCE		AVOIDANCE	AVOIDANCE	AVOIDANCE		AVOIDANCE	AVOIDANCE	AVOIDANCE	AVOIDANCE	per YEAR NO AVOIDANCE
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Red-throated diver	C)	0 '	0) () 2	. 0	0	0	3
Black-throated diver	C) ()	0 '	. 0) (D () 1	0	0	0	2
Bean Goose	C) ()	0 107		() (0 () 119	0	0	0	227
Pink footed goose	C) ()	0 110		() (0 (122	0	0	0	232
Barnacle goose	C) ()	0 99	9 0	() (D (110	0	0	0	209
Bar-tailed godwit	0) ()	0 8	. 0	() (0 (90	0	0	0	172
Black-tailed godwit	0) ()	0 82	2 0	() (0 (91	0	0	0	173
Knot	0) ()	0 74	. 0	() (0 (83	0	0	0	157
Curlew	C) ()	0 92	2 0) (0 (102	0	0	0	194
Dunlin	C) ()	0 73	3 0) (0 () 81	0	0	0	154
Sanderling	C) ()	0 74	. 0) (0 (82	0	0	0	156
Grey plover	C) ()	0 77	, 0) (0 (86	0	0	0	163
Lapwing	C) ()	0 83	3 0) (0 (93	0	0	0	176
Ringed plover	C) ()	0 7	. 0) (0 () 80	0	0	0	151
Redshank	C) ()	0 89	9 0) (0 (99	0	0	0	188
Turnstone	C) ()	0 76	6 0) (0 (84	0	0	0	160
Oystercatcher	C) ()	0 90) 0) (0 (100	0	0	0	190
Arctic skua	C) ()	0 :	3 0) (0 () 3	0	0	0	5
Great skua	C) ()	0 :	3 0) (0 () 3	0	0	0	6
Common tern	C) ()	0 9	9 0) (0 () 9	0	0	0	18
Arctic Tern	C) ()	0 :	2 0) (D () 2	0	0	0	4
Sandwich tern	C) ()	0 :	3 0) (0 () 3	0	0	0	5

Table A.1.5 continued

Neart na Gaoithe 73 x 6.15MW - 152

Species	Collisions per month NO AVOIDANCE Jan	Collisions per month NO AVOIDANCE Feb	r Collisions per month NO AVOIDANCE Mar	Collisions per month NO AVOIDANCE Apr	month NO	Collisions per month NO AVOIDANCE Jun	Collisions per month NO AVOIDANCE Jul	r Collisions pe month NO AVOIDANCE Aug	r Collisions per month NO AVOIDANCE Sep		month NO AVOIDANCE		TOTAL COLLISIONS per YEAR NO AVOIDANCE
Red-throated diver	0) () () 1	0) () 2	0	0	0	3
Black-throated diver	C) () () 1	0) () 1	0	0	0	2
Bean Goose	C) () (107	0) (120	0	0	0	227
Pink footed goose	C) () (110	0) (122	0	0	0	232
Barnacle goose	0) () (99	0) (110	0	0	0	209
Bar-tailed godwit	0) () (81	0) (91	0	0	0	172
Black-tailed godwit	0) () (82	0) (91	0	0	0	173
Knot	0) () (74	0) (83	0	0	0	157
Curlew	0) () (92	0) (102	0	0	0	194
Dunlin	0) () (73	0) (81	0	0	0	154
Sanderling	0) () (74	0) (82	0	0	0	156
Grey plover	C) () (77	0) (86	0	0	0	163
Lapwing	C) () (83	0) (93	0	0	0	177
Ringed plover	C) () (71	0) (08 (0	0	0	151
Redshank	() () (89	0) (100	0	0	0	189
Turnstone	C) () (76	0) (84	0	0	0	160
Oystercatcher	() () (90	0) (100	0	0	0	190
Arctic skua	() () () 3	0) () 3	0	0	0	5
Great skua	() () () 3	0) () 3	0	0	0	6
Common tern	C) () () 9	0) () 9	0	0	0	19
Arctic Tern	C) () () 2	0) () 2	0	0	0	4
Sandwich tern	() () () 3	0) () 3	0	0	0	5

									r Collisions per				
	month NO	month NO	month NO	month NO	month NO	month NO	COLLISIONS						
0	AVOIDANCE			AVOIDANCE	AVOIDANCE	AVOIDANCE	per YEAR NO						
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVOIDANCE
Red-throated diver	() () () 2	: 0) (0	0 2	. 0			3
Black-throated diver	() () () 1	0) () (0	0 1	0			2
Bean Goose	() () (121) () (0	0 134) (255
Pink footed goose	() () (124) (0	0 138				262
Barnacle goose	() () (112) (0	0 124				235
Bar-tailed godwit	() () (93	. 0) (0	0 103	0			197
Black-tailed godwit	() () () 94	- 0) (0	0 104	0			198
Knot	() () (0 86	. 0) () (0	0 95	0) (181
Curlew	() () (104	. 0) () (0	0 115	0) (220
Dunlin	() () () 85	. 0) (0	0 94	. 0	C		178
Sanderling	() () (0 86	. 0) () (0	0 95	0) (180
Grey plover	() () () 89	0) (0	0 99	0	C		187
Lapwing	() () (96	. 0) (0	0 106	0	C		202
Ringed plover	() () () 83	. 0) (0	0 92	. 0	C		175
Redshank	() () (102	. 0) (0	0 113	0			215
Turnstone	() () () 87	. 0) (0	0 97	. 0			184
Oystercatcher	() () (102	. 0) (0	0 114	0			216
Arctic skua	() () () 3	. 0) (0	0 3	0			6
Great skua	() () () 4	. 0) (0	0 4	. 0			7
Common tern	Ċ) () () 10	0) (0	0 11	0	C		21
Arctic Tern	Ċ) () () 2	. 0) (0	0 2	. 0	C		5
Sandwich tern	Ċ) () () 3	. 0) (0	0 3	0	C		6



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