

A decorative collage on a teal background. It includes a white-outlined photo of a worker in a yellow safety vest on a wind turbine platform, a satellite image of a wind farm with a bright green vertical bar, and several white line-art icons of wind turbines arranged in a cluster.

Arklow Bank Wind Park 2

Environmental Impact Assessment Report

Volume III, Appendix 12.8: Offshore Ornithology Technical Report -
Seabird Spatial Distribution Maps



MacArthur
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Offshore Ornithology Technical Appendix 12.08

Technical Report –Seabird Spatial Distribution Maps

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Author	Experience
Dr Mark Trinder	Mark has over 15 years of undertaking offshore wind farm ornithological impact assessments in the UK, including all aspects of data analysis, reporting, and representation at public examinations. He has also contributed to a range of statutory guidance.

MacArthur Green is helping to combat the climate crisis through working within a carbon negative business model. Read more at www.macarthurgreen.com.



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Units

Unit	Description
km	Kilometre (distance)
Km2	Kilometre squared (Area)

1 OFFSHORE ORNITHOLOGY TECHNICAL REPORT – SEABIRD SPATIAL DISTRIBUTION MAPS

1.1 Introduction

1. This Technical Report provides seabird spatial distribution maps for species recorded in the Array Area and the Array Area 2 km and 4 km buffers. Data was collected during the digital aerial surveys between March 2018 and April 2020. The tabulated density and abundance data for each species are presented in volume III, appendix 12.2: Offshore Ornithology Technical Report – Monthly Seabird Density and volume III, appendix 12.3: Offshore Ornithology Technical Report – Monthly Seabird Abundance, respectively.

1.2 Seabird spatial distribution maps

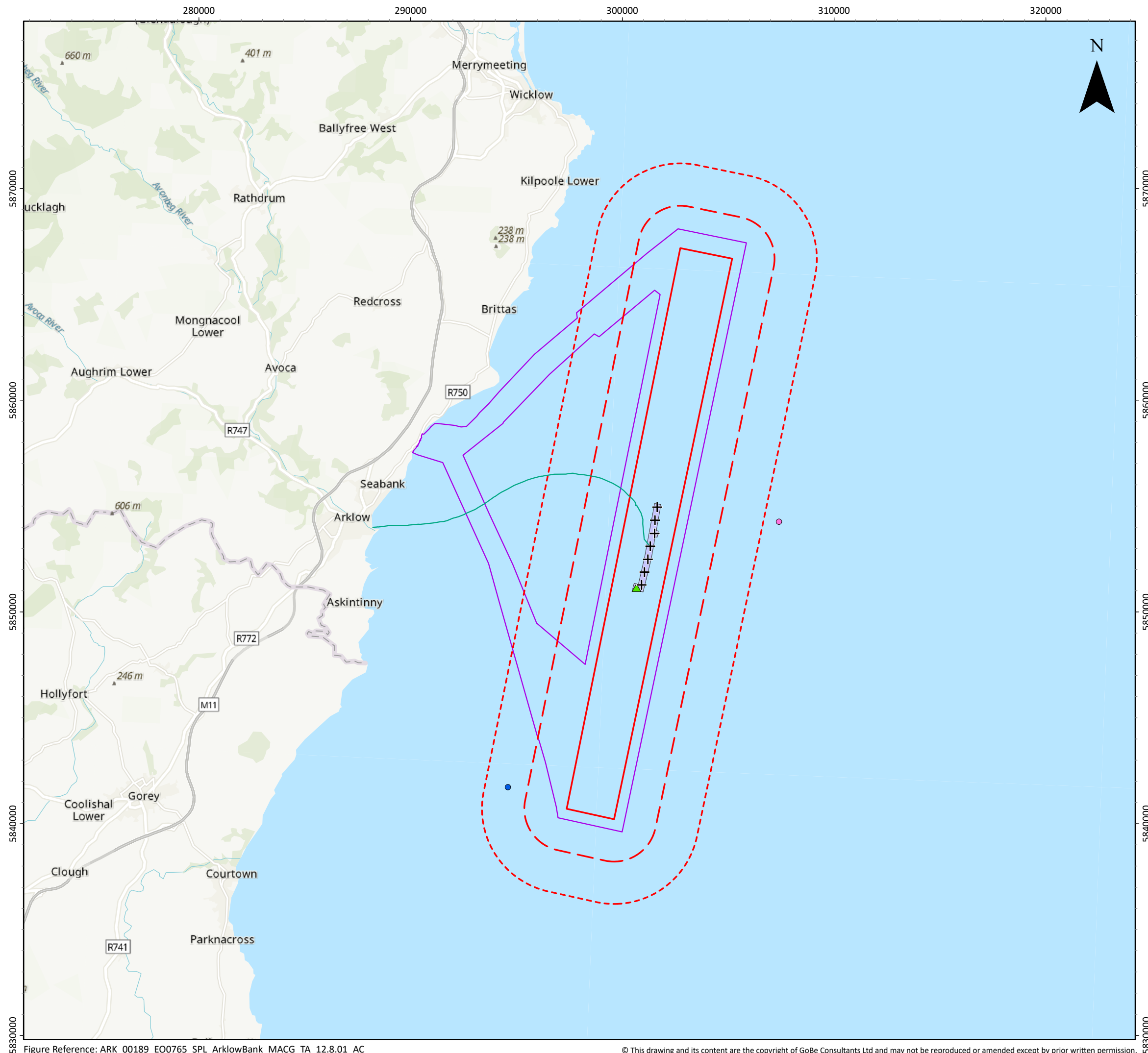
2. Seabird spatial distributions are provided in Figure 12.8.1 to Figure 12.8.23 below (Table 1.1). For species recorded in low numbers (fewer than 25 birds) these figures plot all the observations recorded for the family group (e.g. cormorants and shags) onto one figure, while more commonly recorded species are plotted one species per map.
3. For fully identified species, observations are displayed by season (using the definitions in Furness 2015¹, see volume III, appendix 12.1: Offshore Ornithology Technical Report – Overview), while for high-level species groups (e.g. ‘auks’, ‘divers’ and ‘small gulls’), observations are not displayed by season.

Table 1.1: Key to Figure numbering.

Species	Figure Number
Arctic skua	Figure 12.8.1
Arctic tern and Arctic / common tern	Figure 12.8.2
Auk species	Figure 12.8.3
Black headed gull	Figure 12.8.4
Common gull	Figure 12.8.5
Common scoter	Figure 12.8.6
Common tern and Arctic / common tern	Figure 12.8.7
Cormorant and shag and cormorant / shag	Figure 12.8.8
Fulmar	Figure 12.8.9
Gannet	Figure 12.8.10
Great black-backed gull	Figure 12.8.11
Great northern diver and diver species	Figure 12.8.12
Guillemot	Figure 12.8.13
Herring gull	Figure 12.8.14
Kittiwake	Figure 12.8.15
Lesser black-backed gull	Figure 12.8.16

¹ Furness, R.W. (2015) Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Report Number 164. 389.

Species	Figure Number
Little gull	Figure 12.8.17
Manx shearwater	Figure 12.8.18
Puffin	Figure 12.8.19
Razorbill	Figure 12.8.20
Red-throated diver and diver species	Figure 12.8.21
Sandwich tern and little tern	Figure 12.8.22
Small gull species	Figure 12.8.23



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Arctic Skua Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Arctic Skua Records

- Autumn Migration
- Spring Migration



Notes

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Coordinate System:
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0 4 7 km

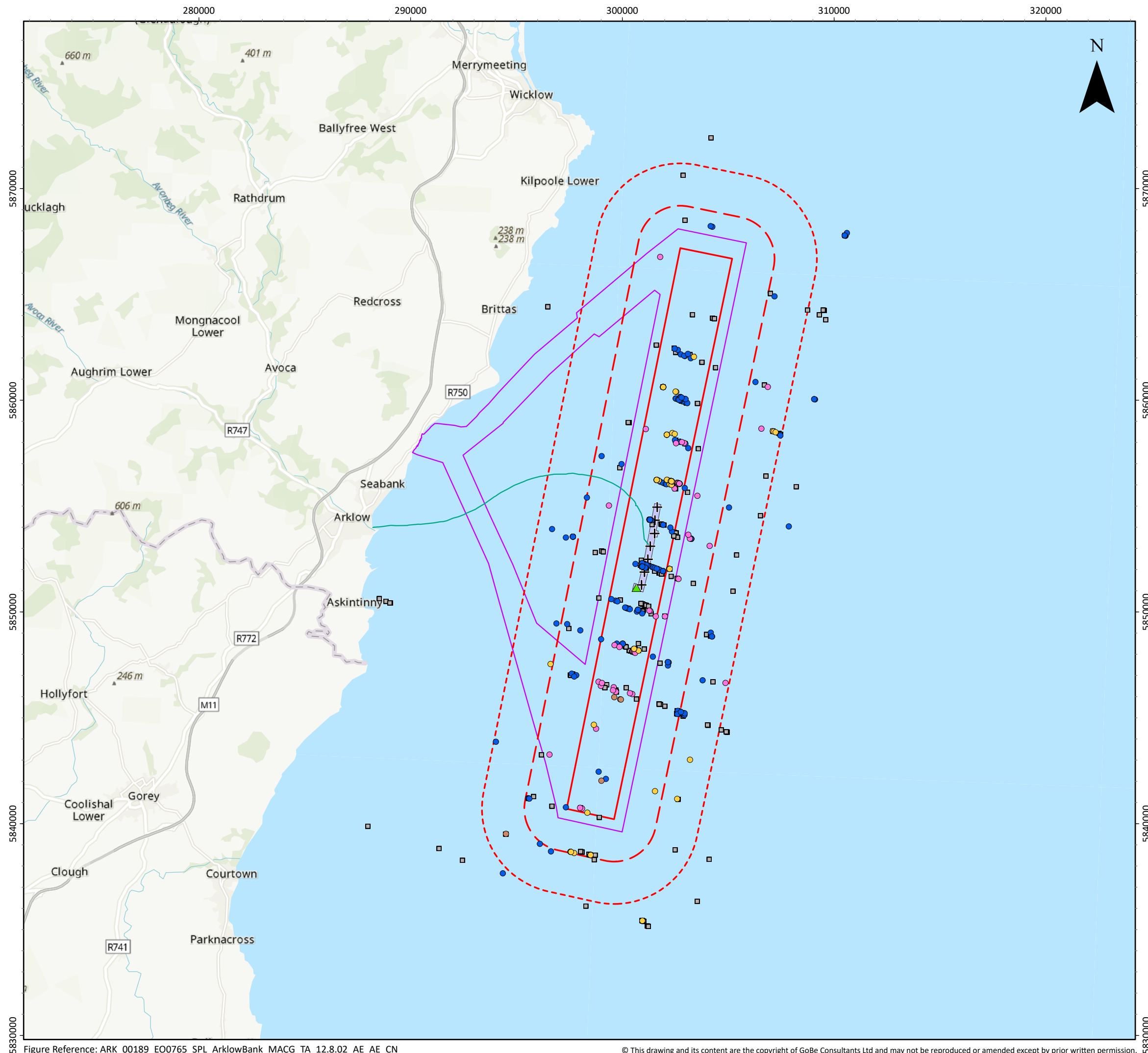
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Figure Number 12.8.01



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Arctic Tern and Arctic/ Common Tern Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Arctic Tern Records

- Autumn Migration
- Spring Migration
- Breeding
- Nonbreeding

Arctic/Common Tern Records

- Observation



Notes

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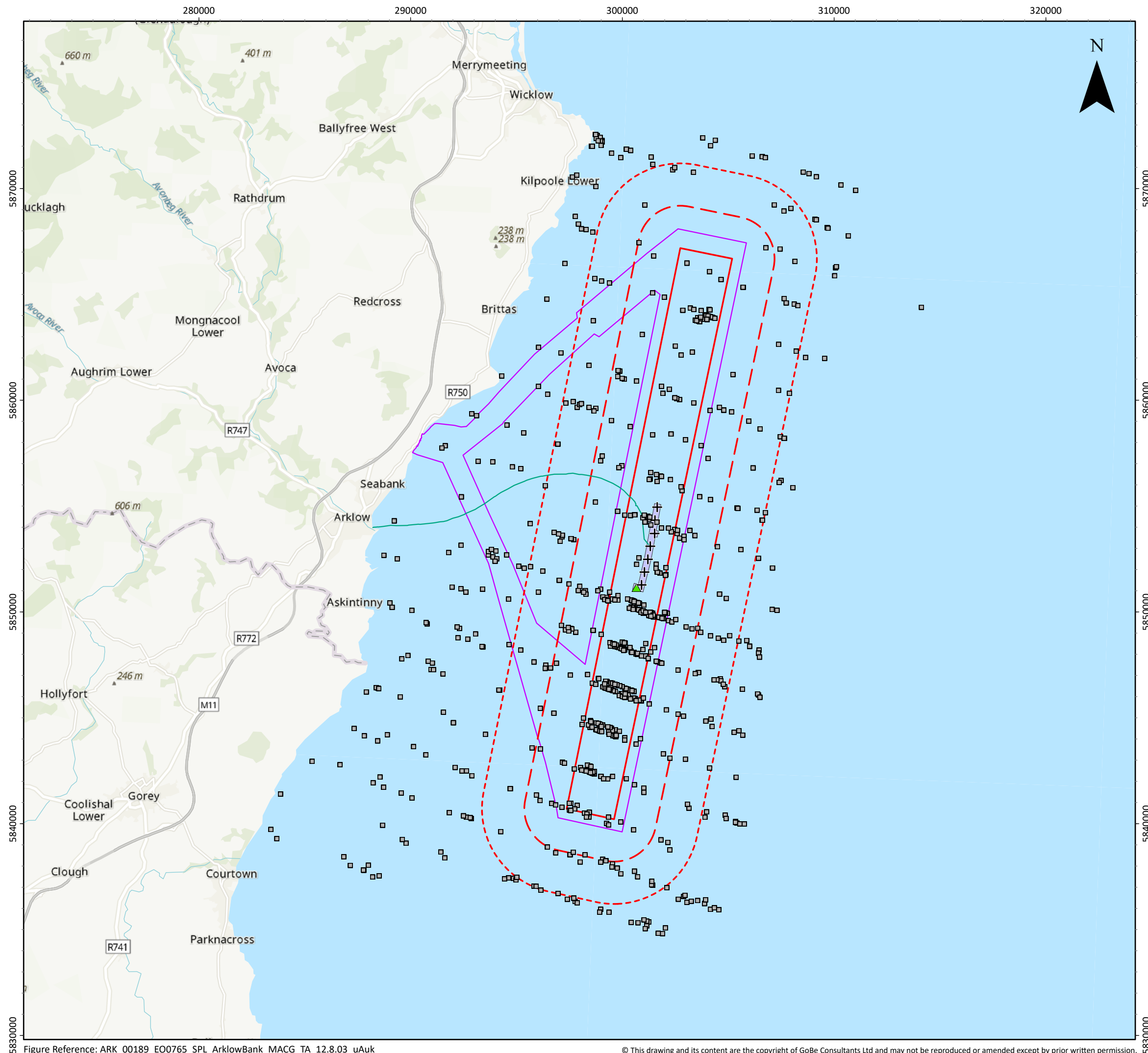
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Figure Number 12.8.02



Arklow Bank Wind Park 2

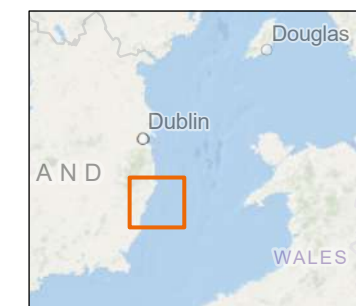
Auk Species Records (2018 - 2020)

Legend

- ABWP2 Array Area
- + ABWP1 WTGs
- ▲ ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Auk Species Records

- Observation



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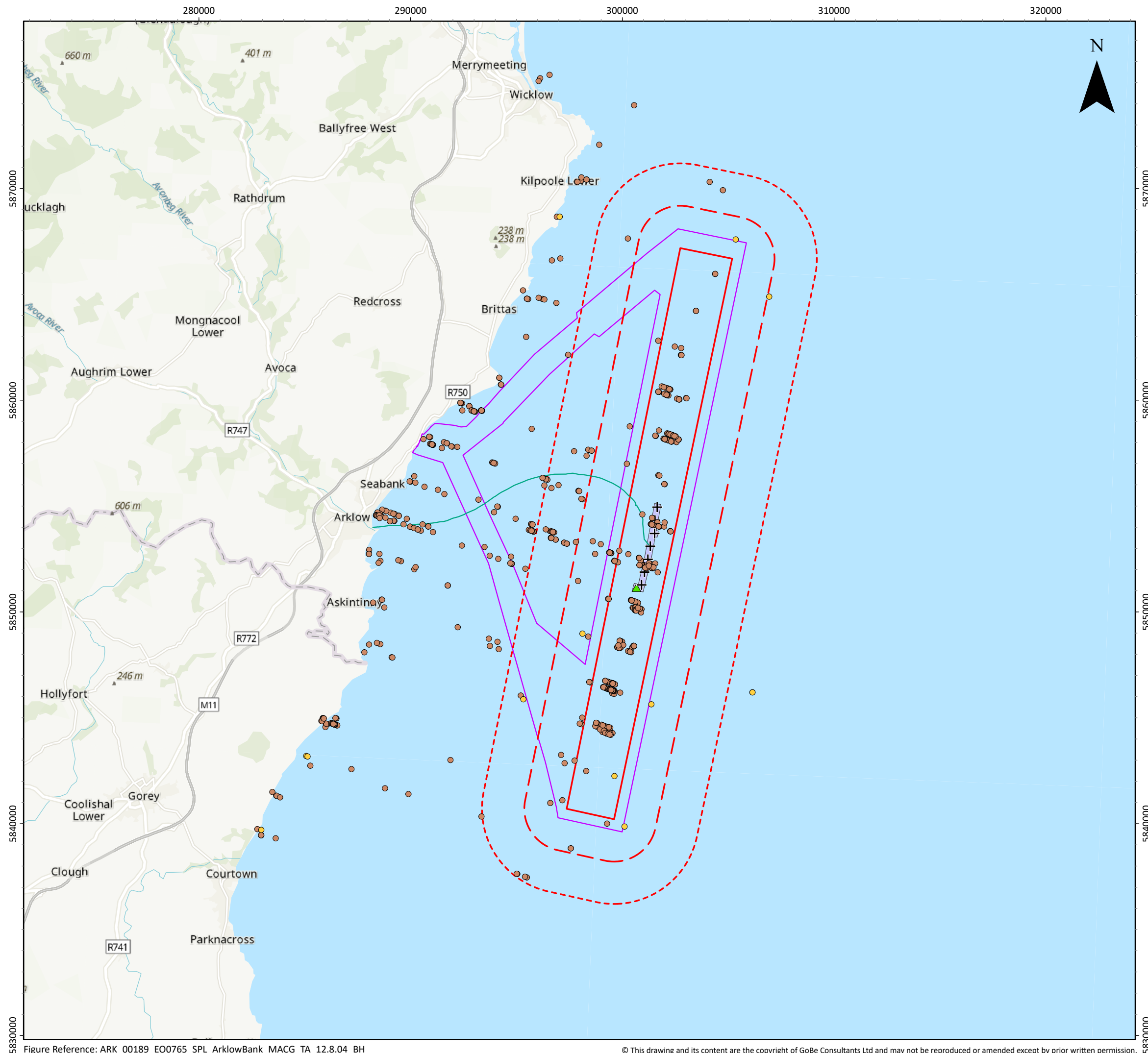
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Figure Number 12.08.03



Arklow Bank Wind Park 2

Black-headed Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- + ABWP1 WTGs
- ▲ ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Black-headed Gull Records

- Breeding
- Nonbreeding



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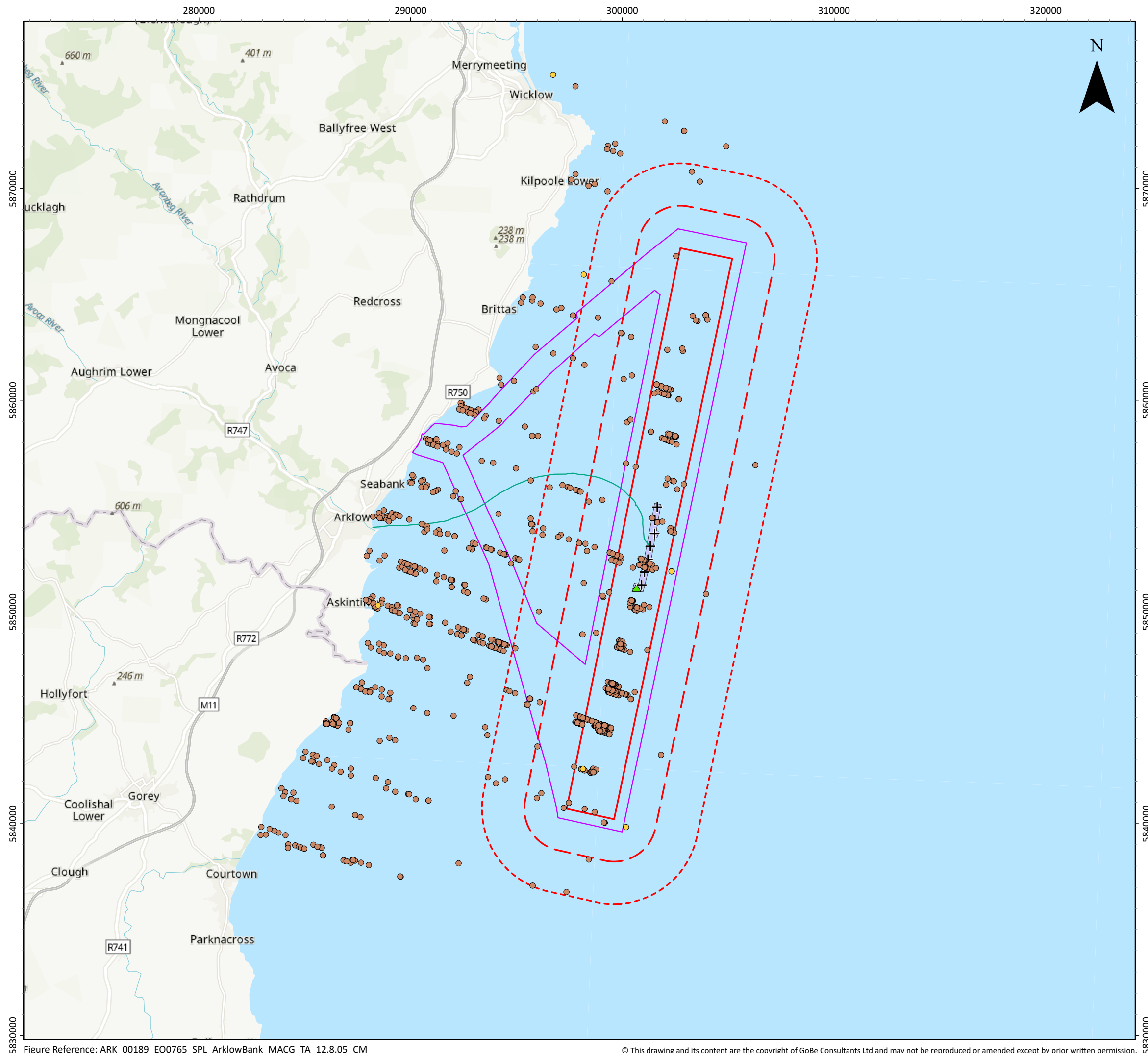
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Arklow Bank Wind Park 2

Common Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- + ABWP1 WTGs
- ▲ ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Common Gull Records

- Breeding
- Nonbreeding



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0 4 7 km

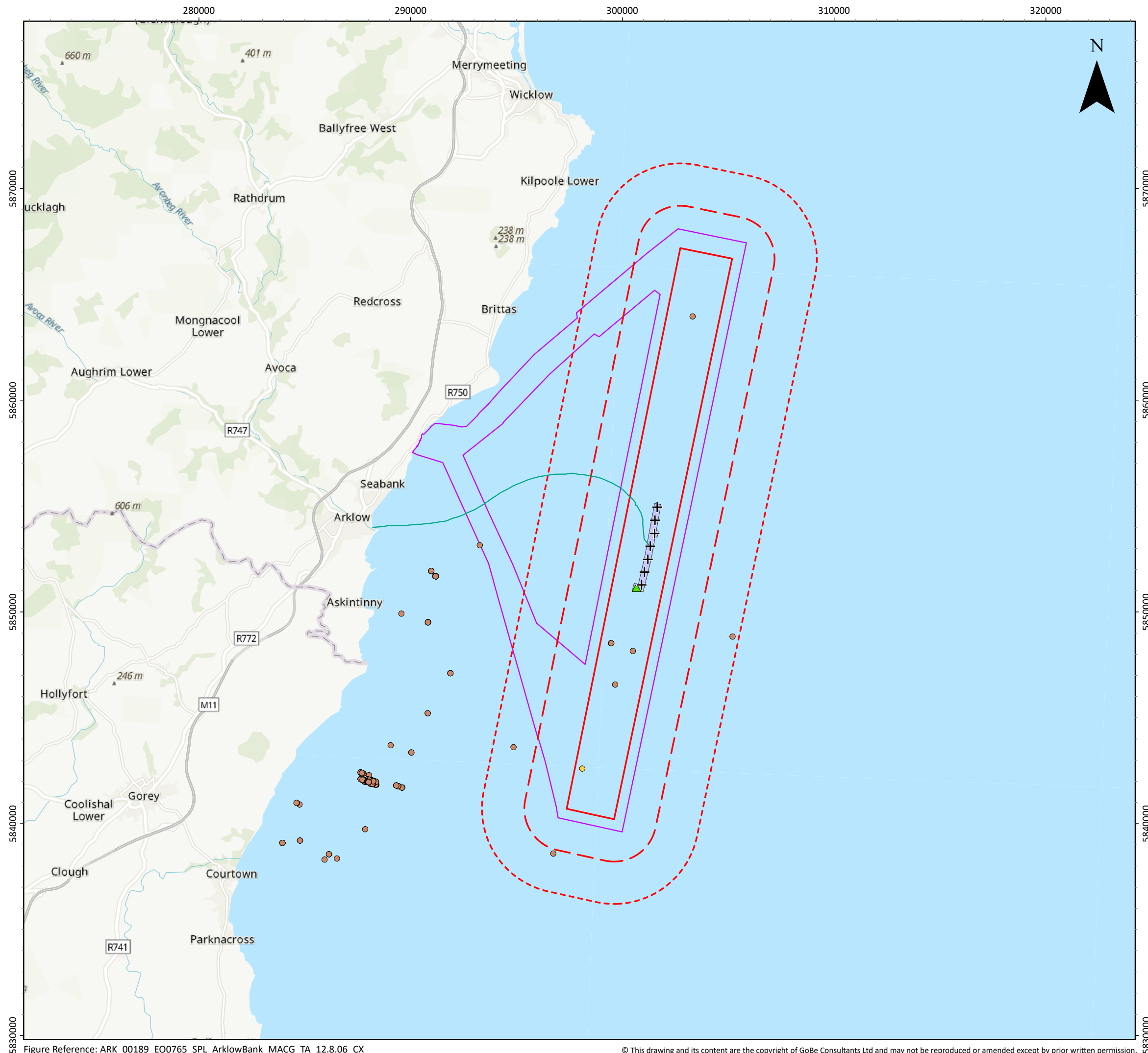
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Figure Number 12.8.05



Arklow Bank Wind Park 2

Common Scoter Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Common Scoter Records

- Breeding
- Nonbreeding



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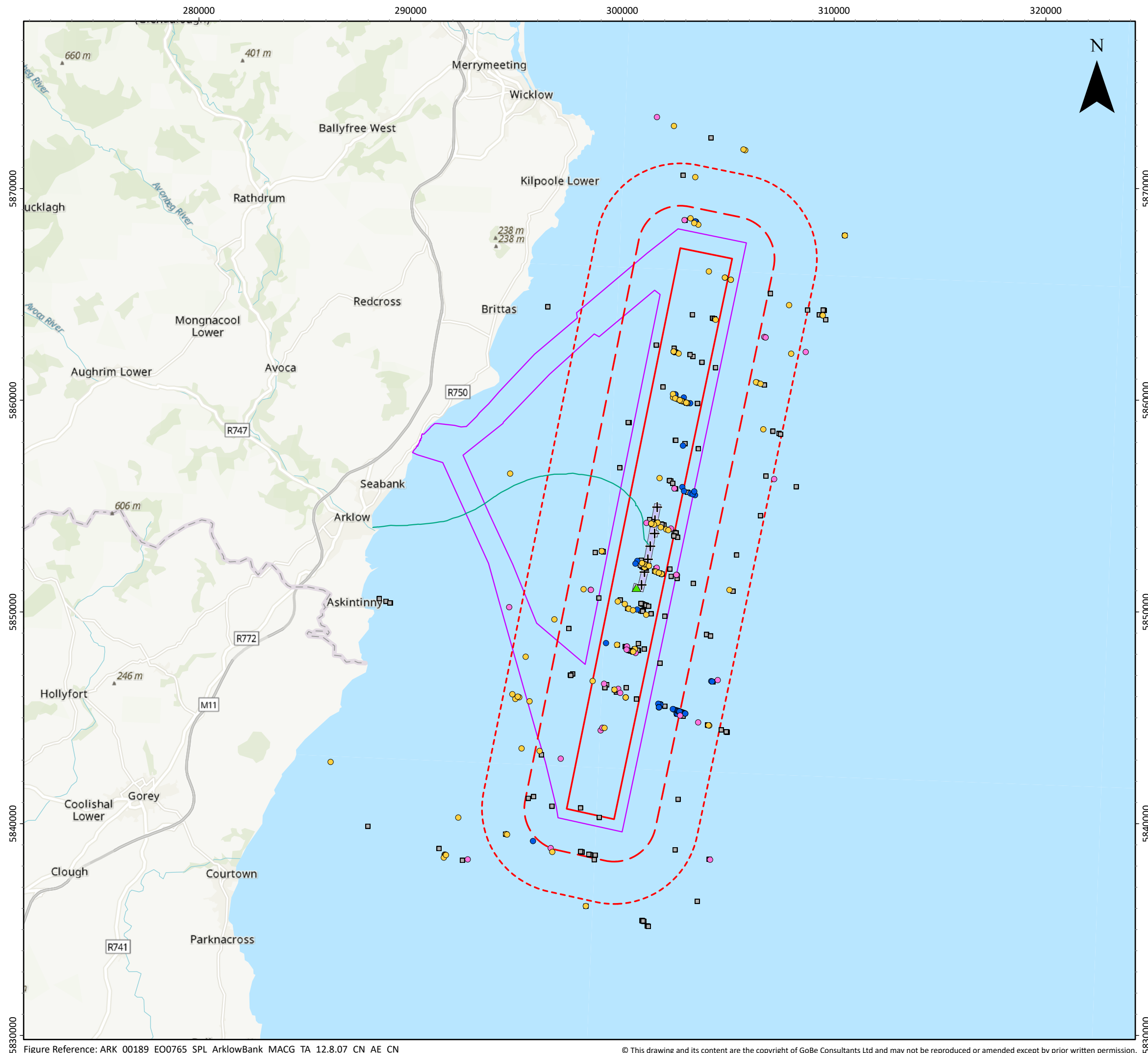
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Arklow Bank Wind Park 2

Common Tern and
Arctic/Common Tern Records
(2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Common Tern Records

- Autumn Migration
- Spring Migration
- Breeding

Arctic/Common Tern Records

- Observation



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0 4 7 km

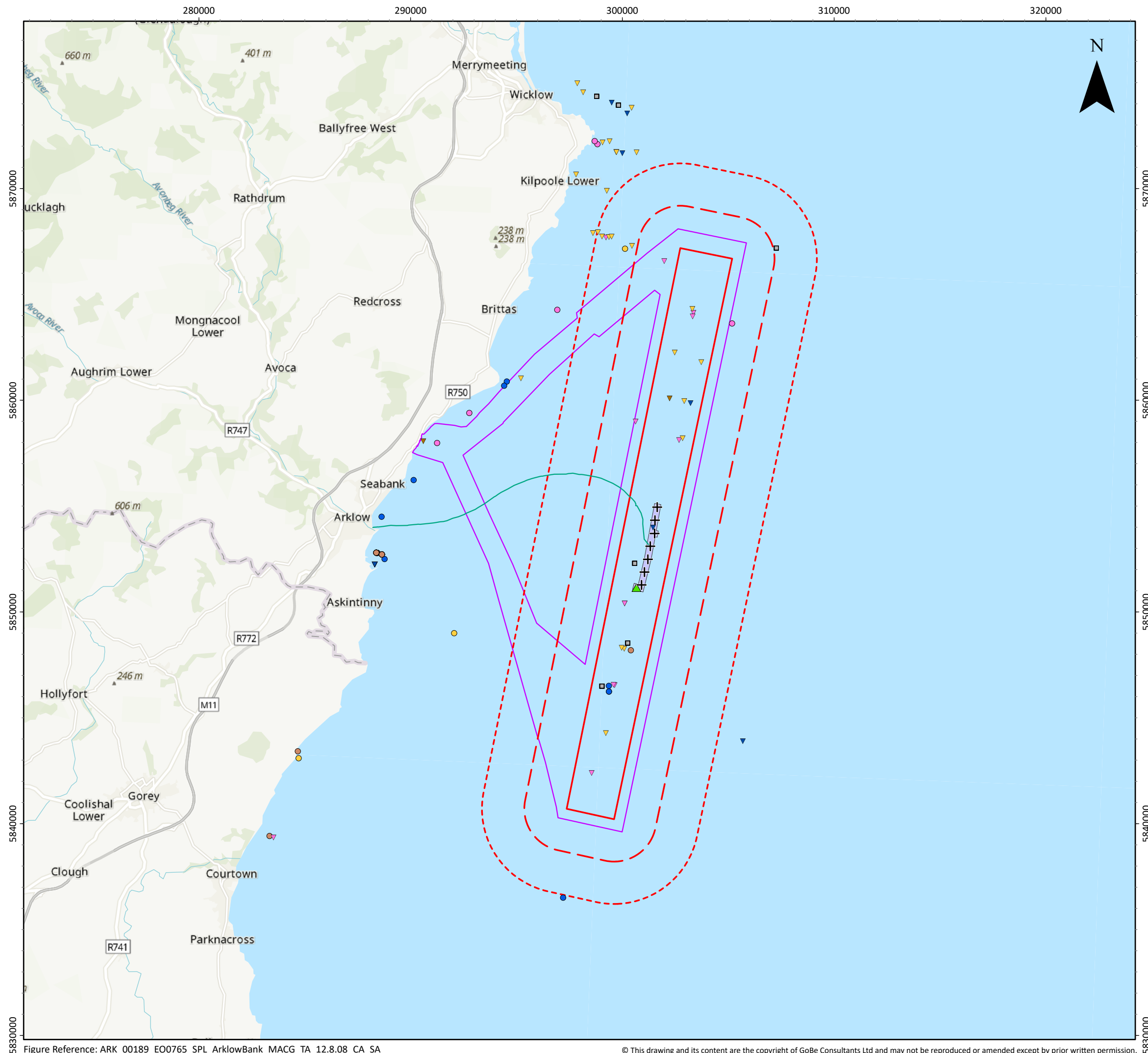
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Shag and Cormorant Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Shag Records

- Autumn Migration
- Spring Migration
- Breeding
- Nonbreeding

Cormorant Records

- Autumn Migration
- Spring Migration
- Breeding
- Nonbreeding

Cormorant/Shag Records

- Observation



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0 4 7 km

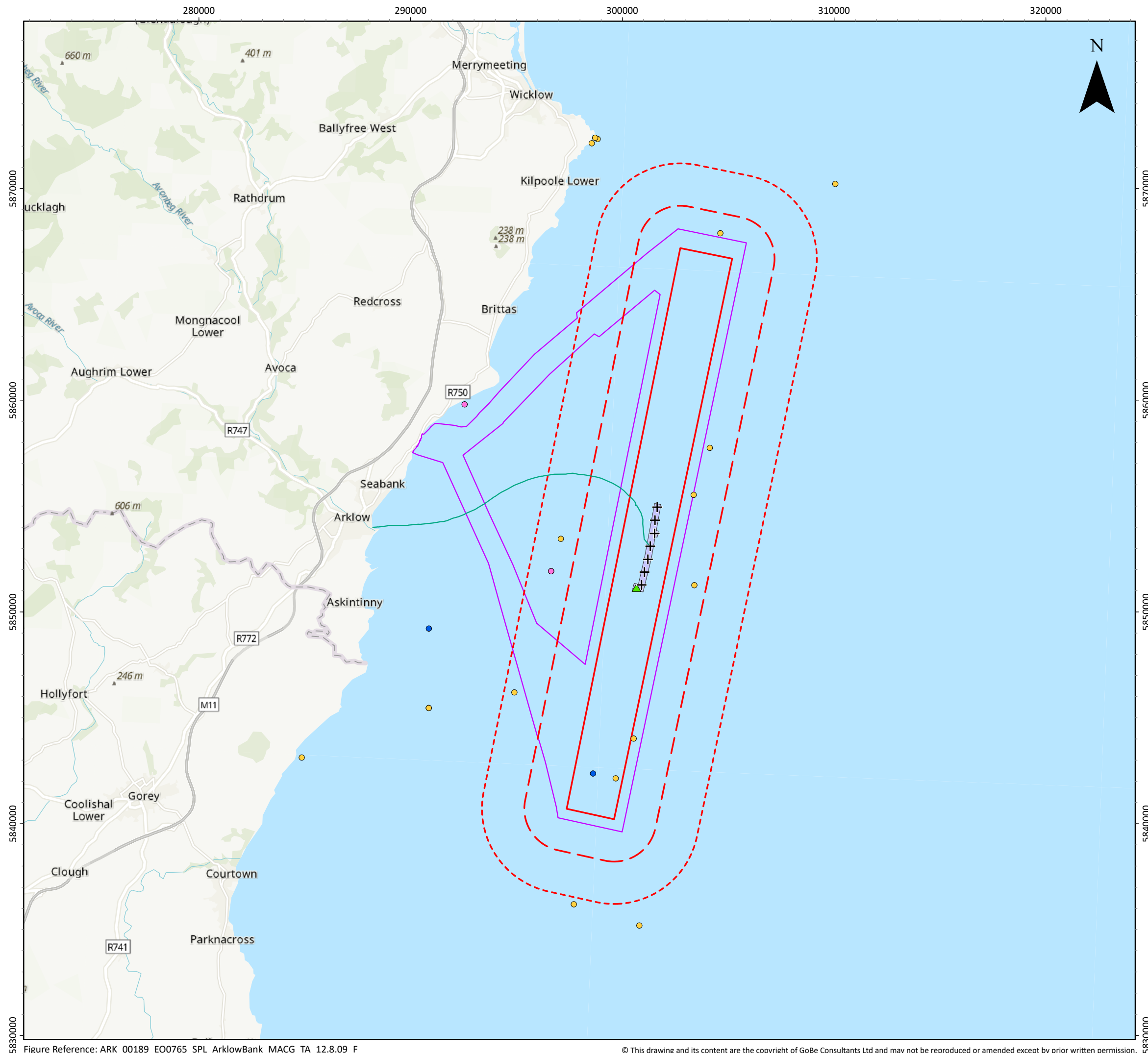
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Figure Number 12.8.08



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Fulmar Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Fulmar Records

- Autumn Migration
- Spring Migration
- Breeding



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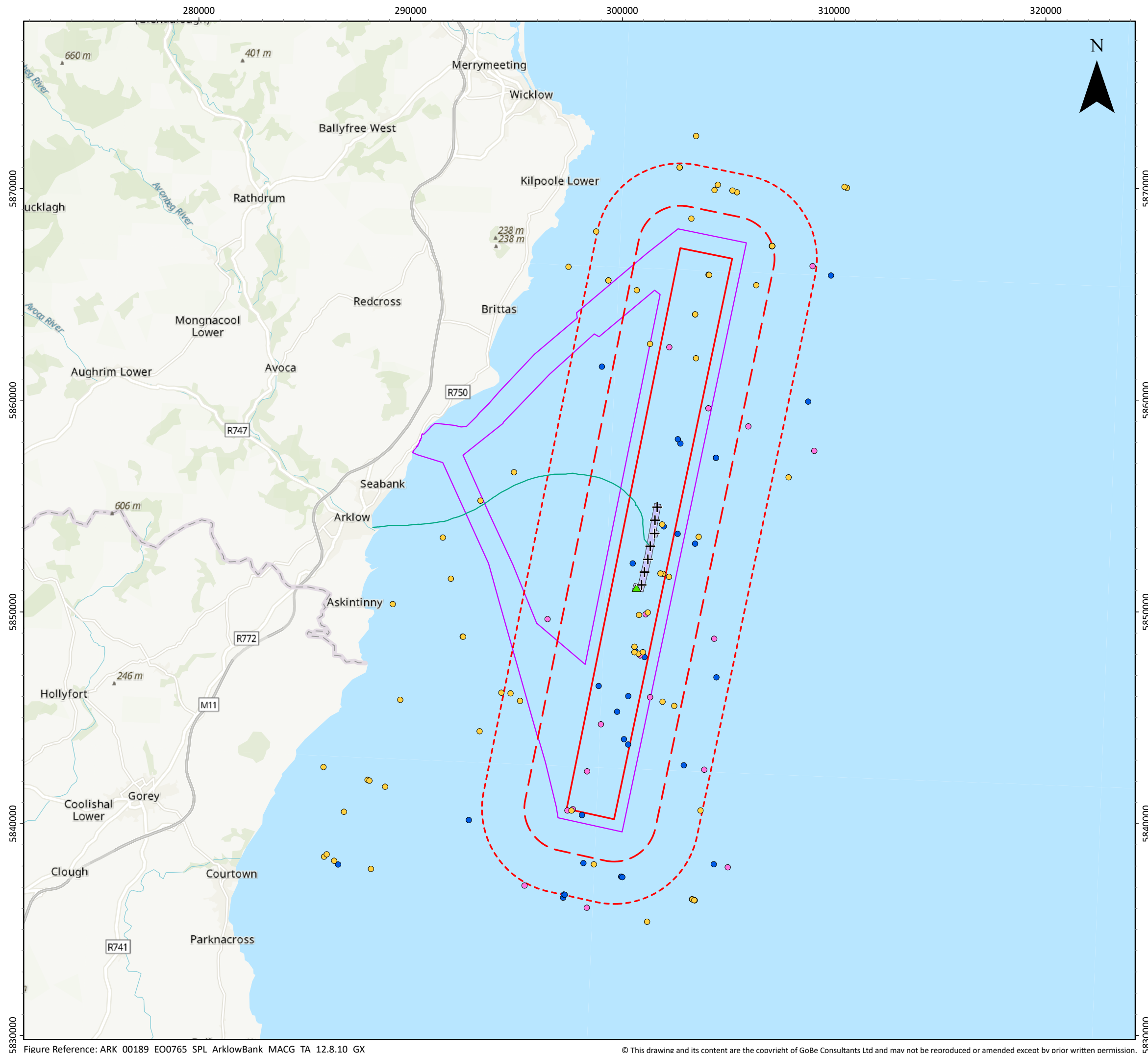
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Figure Number 12.8.09



Arklow Bank Wind Park 2

Gannet Records (2018 - 2020)

Legend

-  ABWP2 Array Area
-  ABWP1 WTGs
-  ABWP1 Existing Met Mast
-  ABWP1 Existing Export Cable
-  ABWP1 Array Area
-  ABWP2 Cable Corridor and Working Area
-  ABWP2 Array Area 2 km Buffer
-  ABWP2 Array Area 4 km Buffer

Gannet Records

-  Autumn Migration
-  Spring Migration
-  Breeding



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0 4 7 km

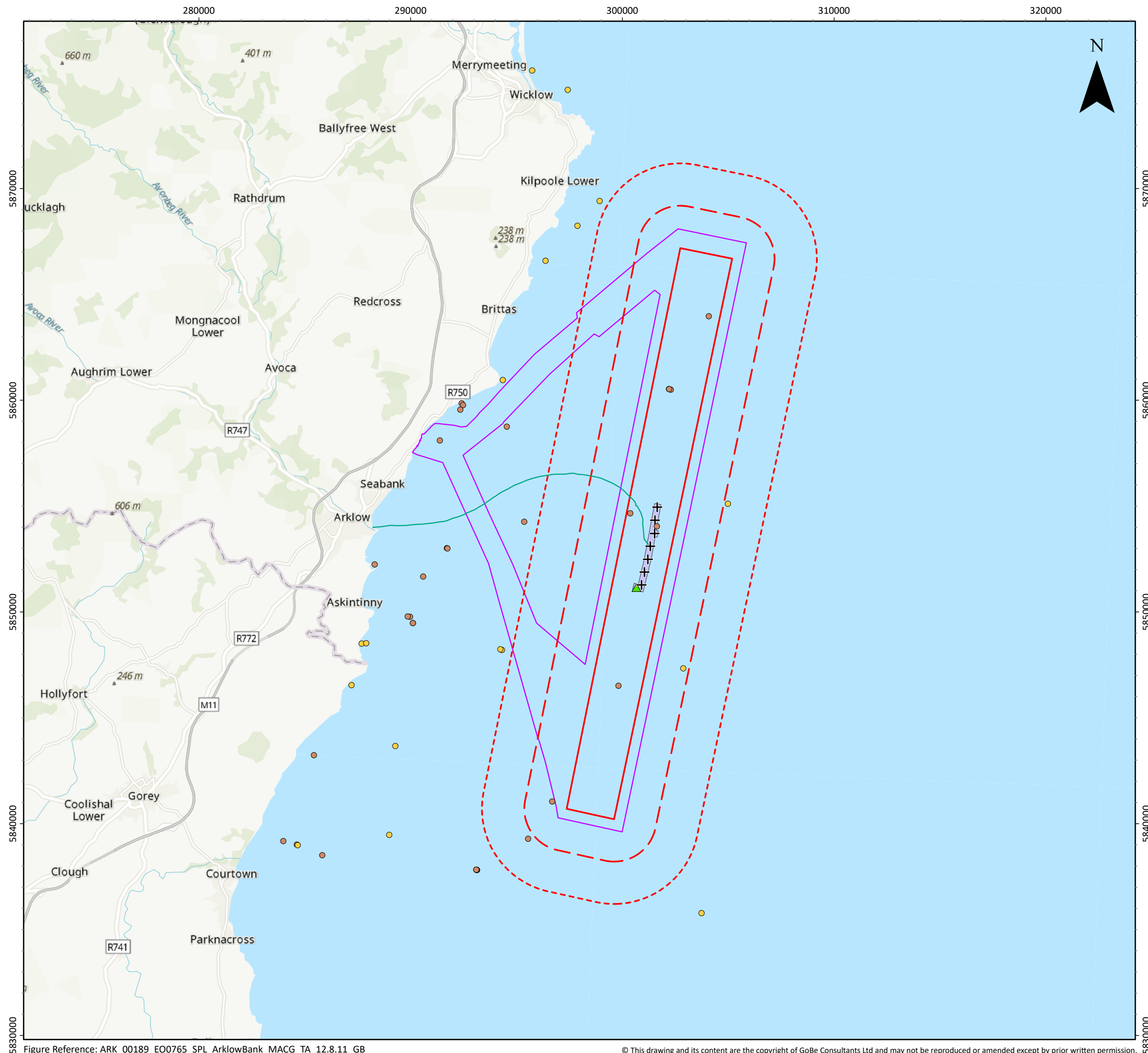
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Figure Number 12.8.10



Arklow Bank Wind Park 2

Great Black-backed Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Great Black-backed Gull Records

- Breeding
- Nonbreeding



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Coordinate System:
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0 4 7 km

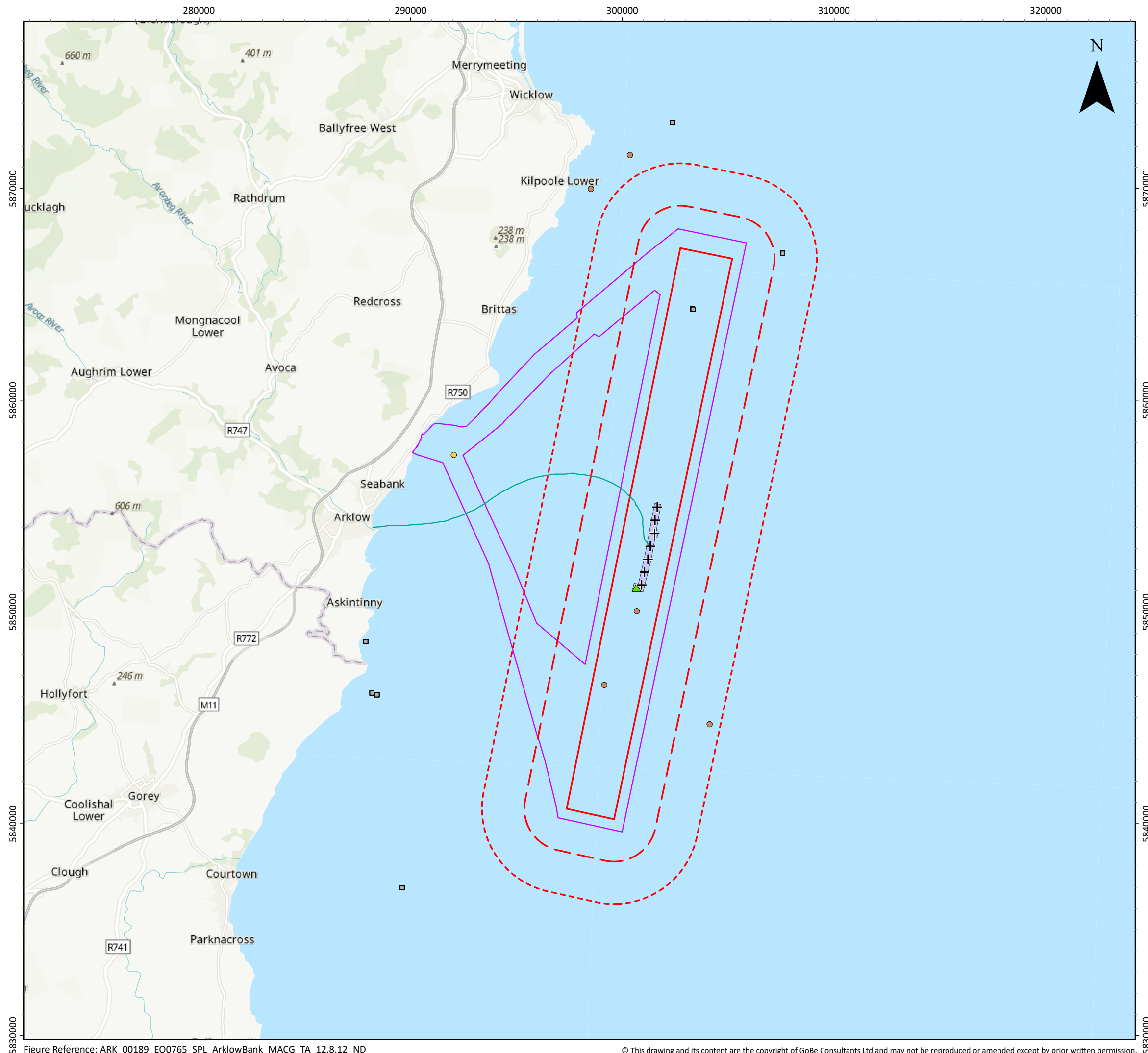
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Arklow Bank Wind Park 2

Great Northern Diver and Diver Species Records (2018 - 2020)

Legend

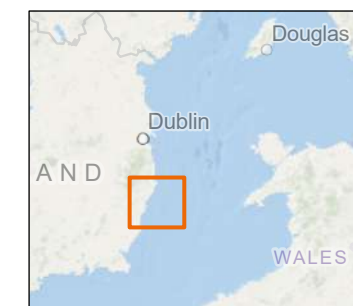
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- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Great Northern Diver Records

- Breeding
- Nonbreeding

Diver Species Records

- Observation



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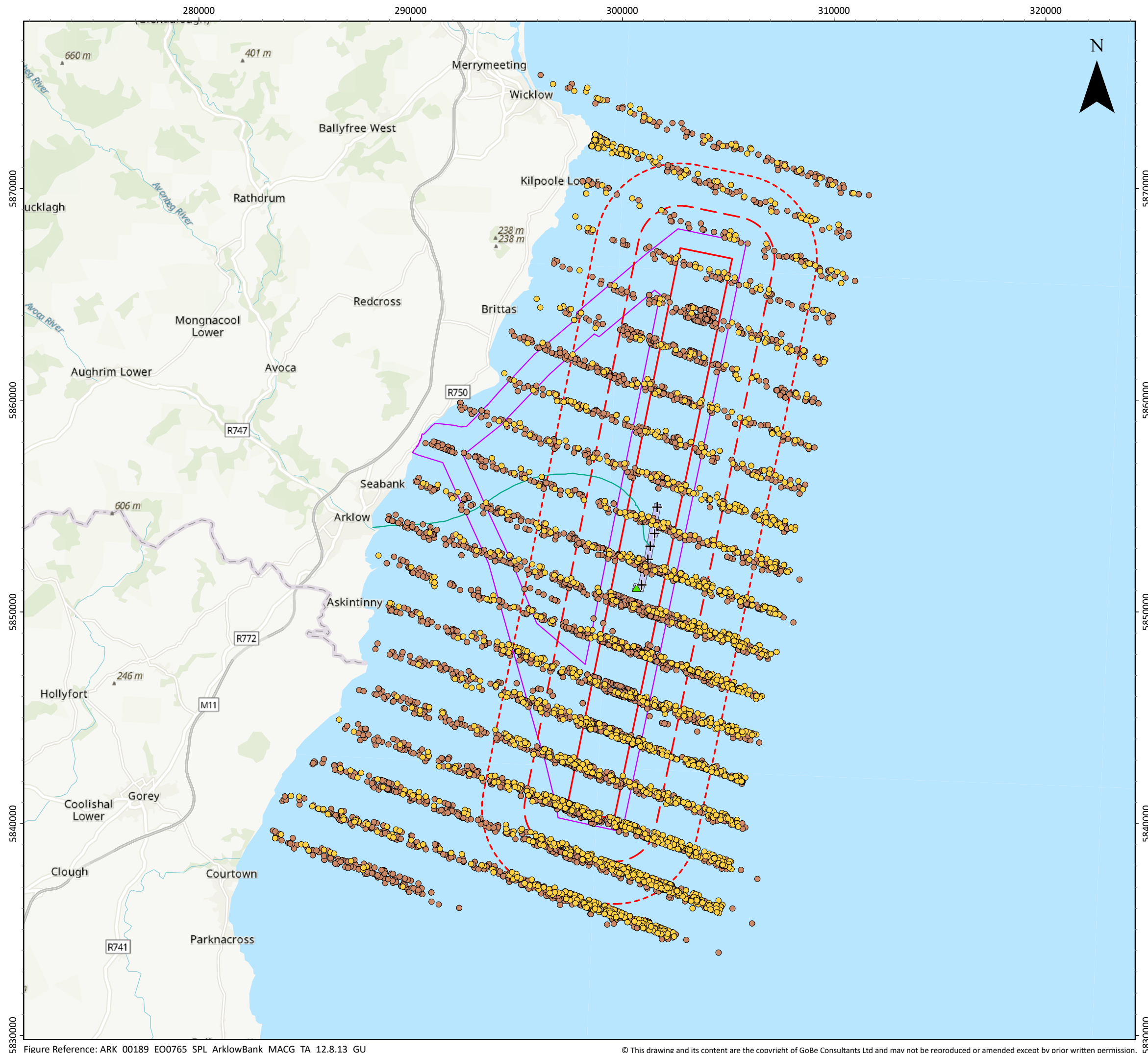
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Figure Number 12.8.12



Arklow Bank Wind Park 2

Guillemot Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Guillemot Records

- Breeding
- Nonbreeding



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Coordinate System:
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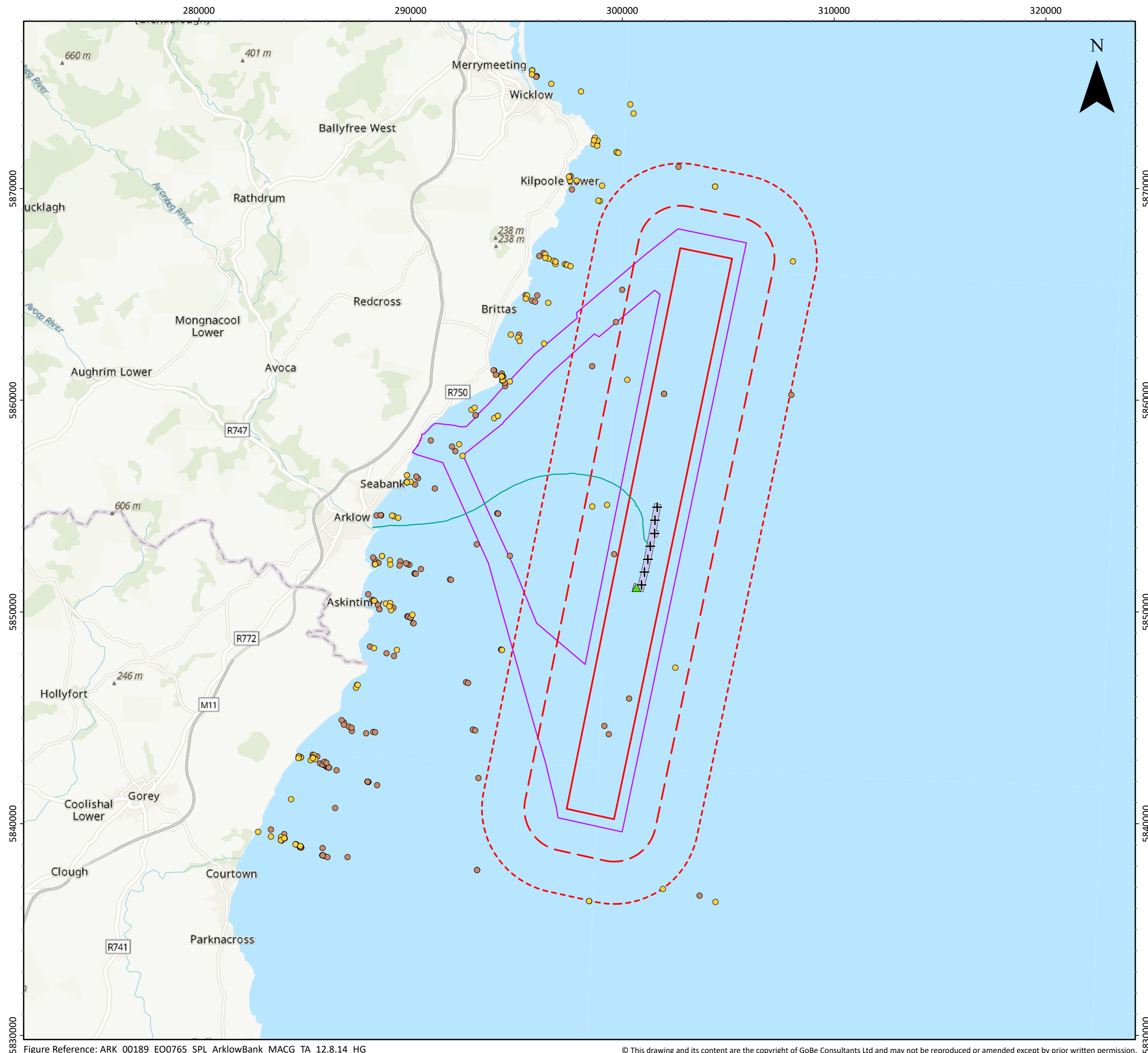
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Figure Number 12.8.13



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Herring Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Herring Gull Records

- Breeding
- Nonbreeding



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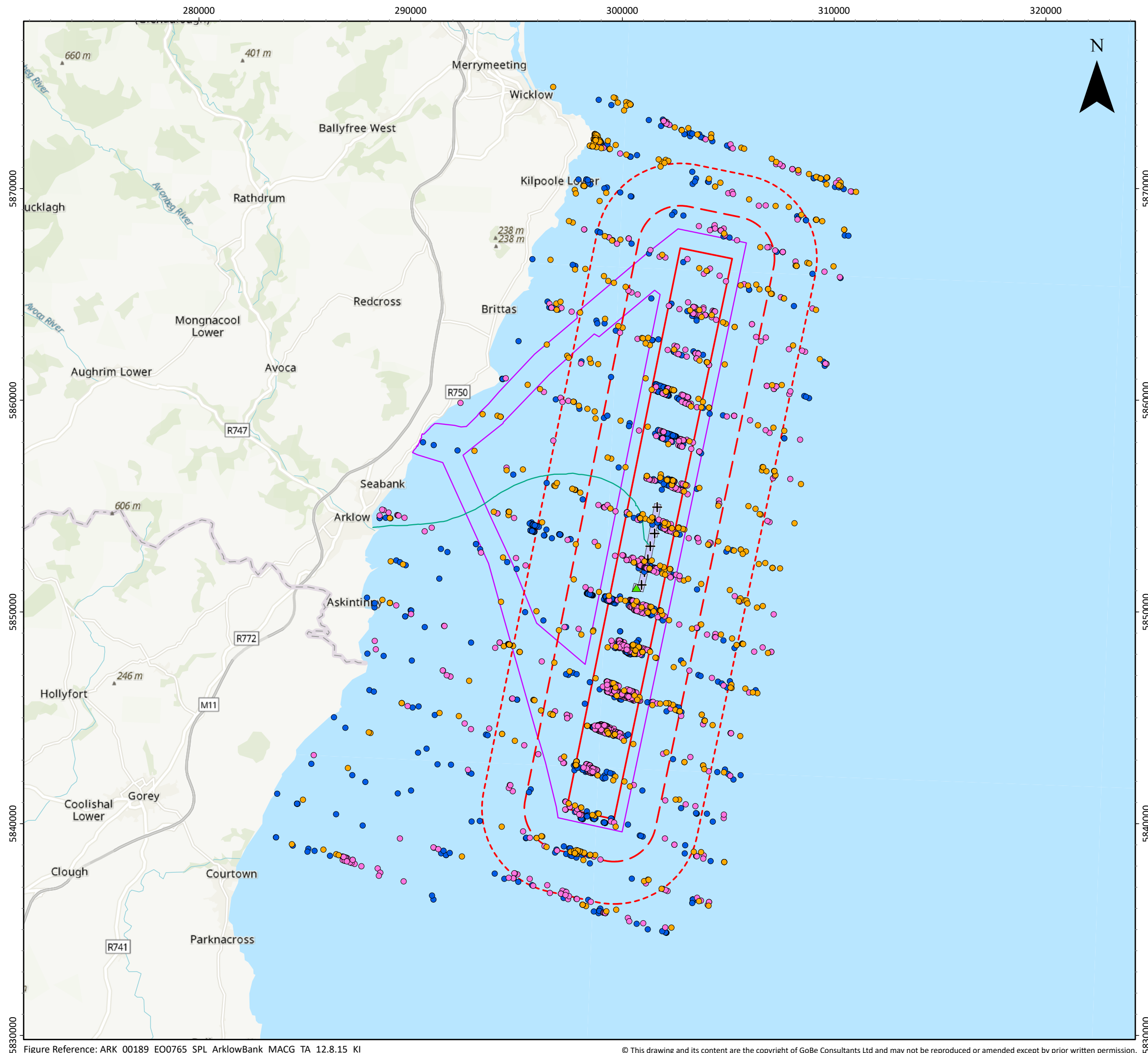
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Arklow Bank Wind Park 2

Kittiwake Records (2018 - 2020)

Legend

-  ABWP2 Array Area
-  ABWP1 WTGs
-  ABWP1 Existing Met Mast
-  ABWP1 Existing Export Cable
-  ABWP1 Array Area
-  ABWP2 Cable Corridor and Working Area
-  ABWP2 Array Area 2 km Buffer
-  ABWP2 Array Area 4 km Buffer

Kittiwake Records

-  Autumn Migration
-  Spring Migration
-  Breeding



Notes

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0 4 7 km

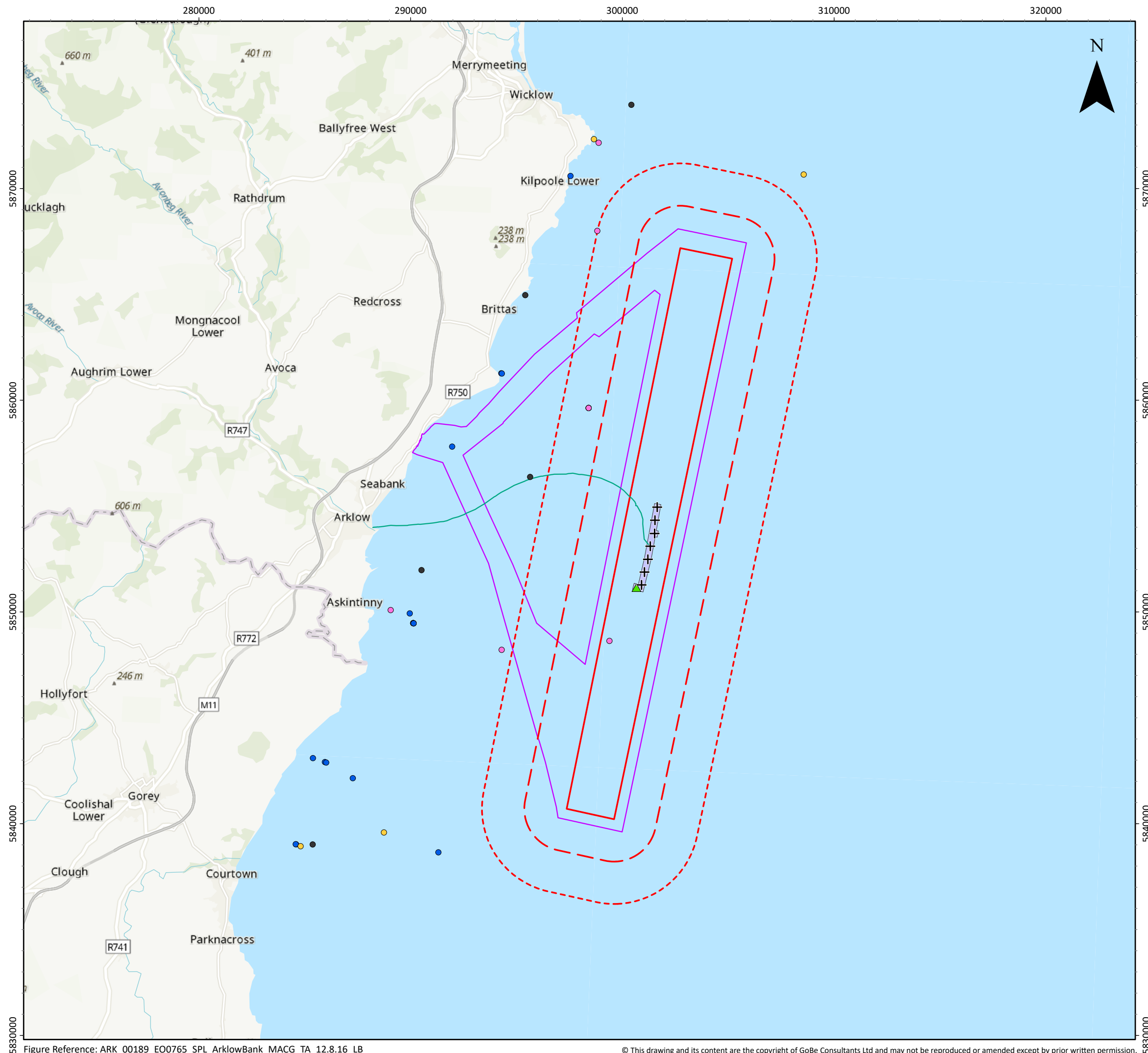
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Figure Number 12.8.15



Arklow Bank Wind Park 2

Lesser Black-backed Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- + ABWP1 WTGs
- ▲ ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Lesser Black-backed Gull Records

- Autumn Migration
- Winter
- Spring Migration
- Breeding



Notes
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Coordinate System:
ETRS 1989 UTM Zone 30N

0 4 7 km

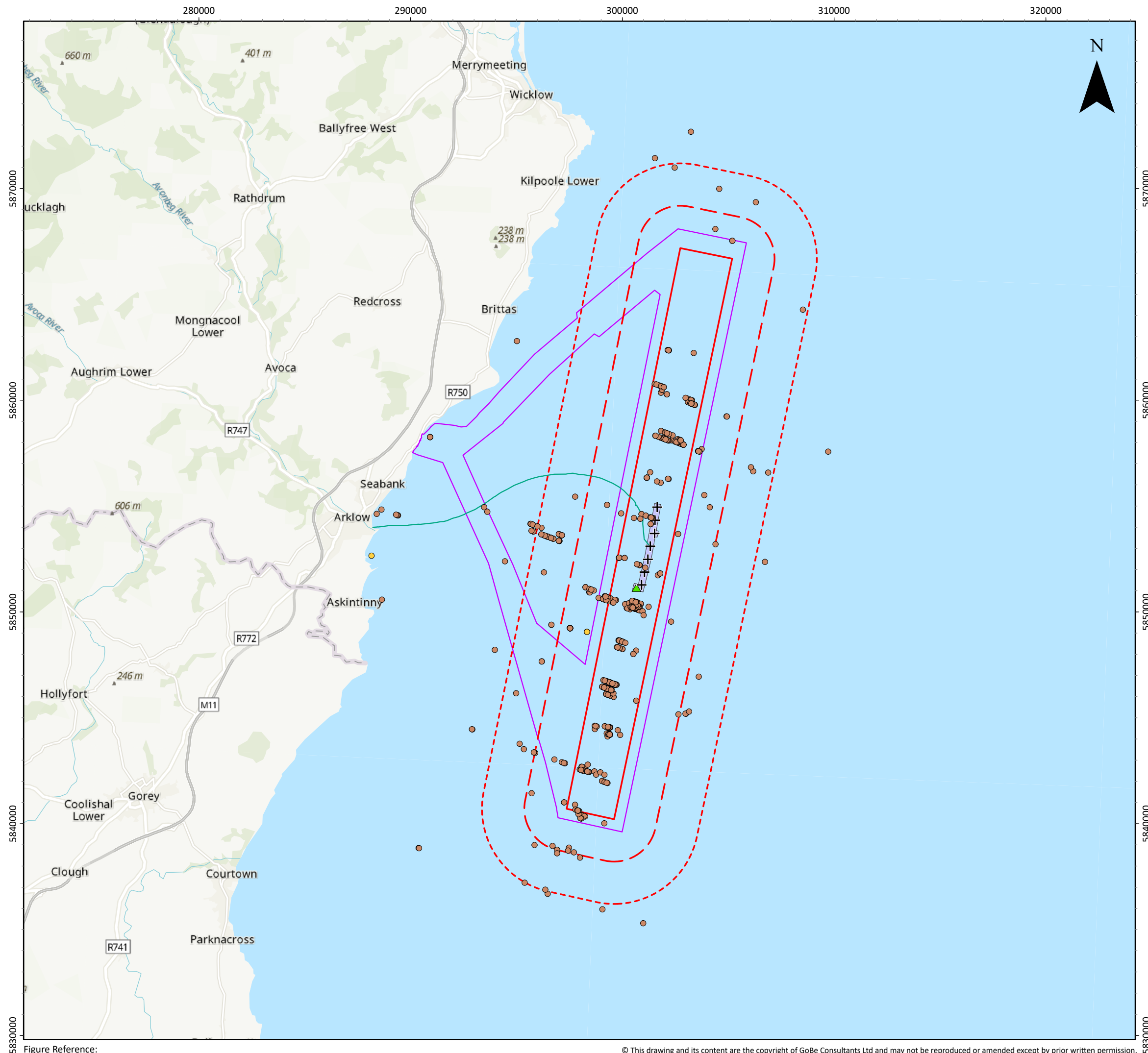
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Scale	Date	Drawn By	Checked By	Approved By
1:175,000 @ A3	15/11/2023	LD	LF	MT

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Figure Number 12.8.16



Arklow Bank Wind Park 2

Little Gull Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Little Gull Records

- Breeding
- Nonbreeding



Notes

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Coordinate System:
ETRS 1989 UTM Zone 30N

0 4 7 km

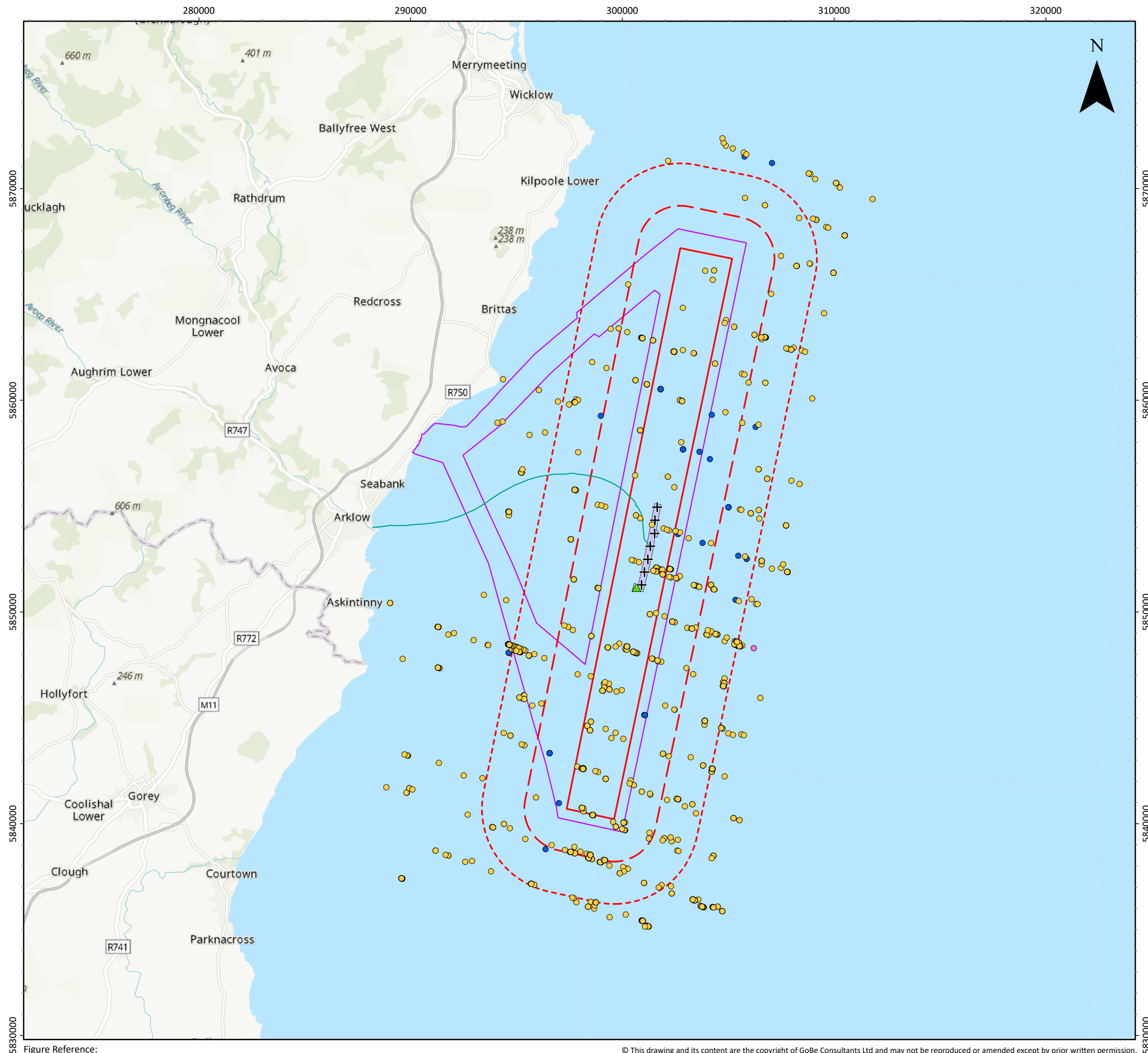
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Scale	Date	Drawn By	Checked By	Approved By
1:175,000 @ A3	15/11/2023	LD	LF	MT

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Figure Number 12.8.17



Arklow Bank Wind Park 2

Manx Shearwater Records
(2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Manx Shearwater Records

- Autumn Migration
- Spring Migration
- Breeding



Notes
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Coordinate System:
ETRS 1989 UTM Zone 30N

0 4 7 km

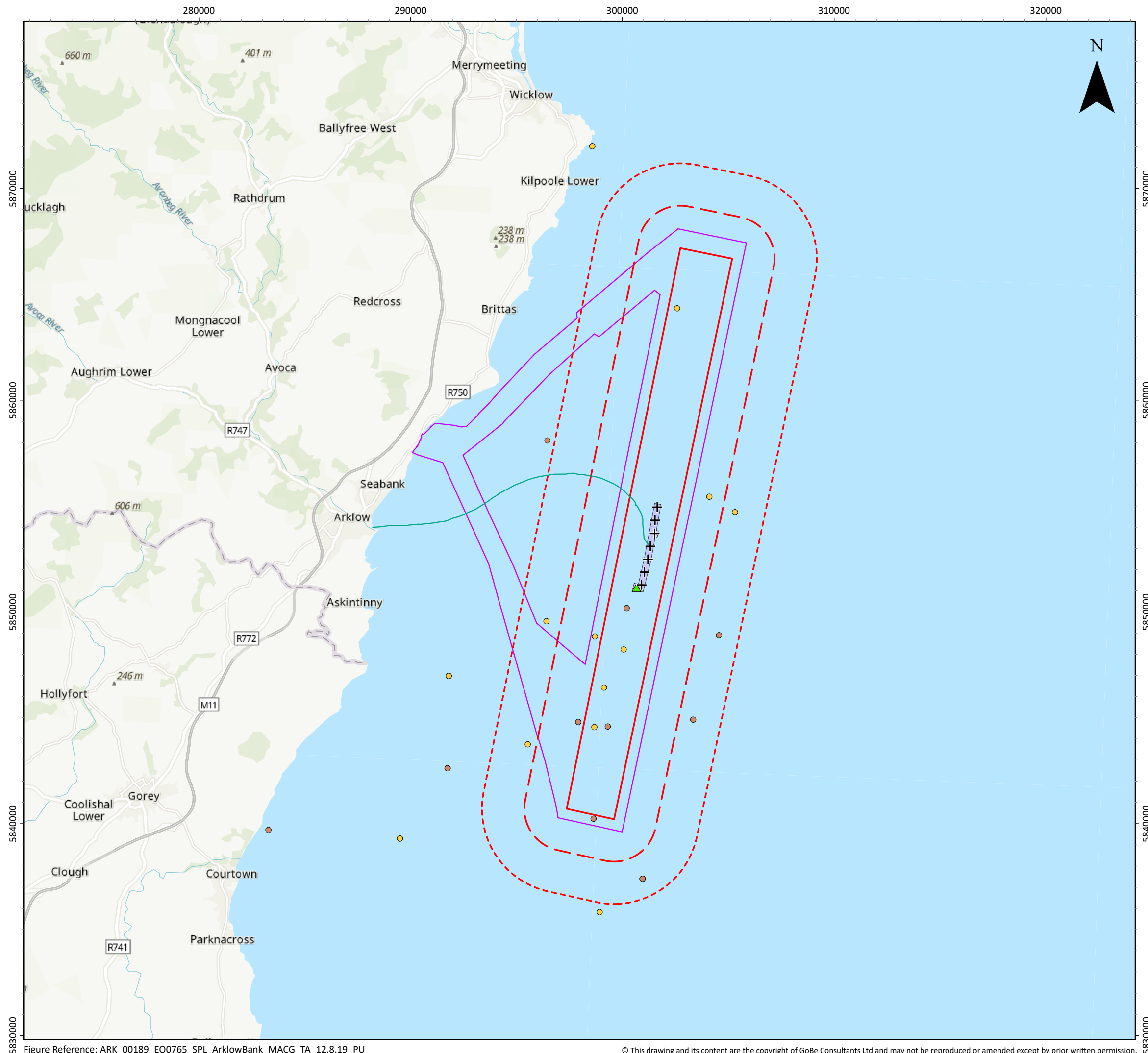
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Scale Date Drawn By Checked By Approved By
1:175,000 @ A3 15/11/2023 LD LF MT

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Figure Number 12.8.18



Arklow Bank Wind Park 2

Puffin Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Puffin Records

- Breeding
- Nonbreeding



Notes

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Coordinate System:
ETRS 1989 UTM Zone 30N

0 4 7 km

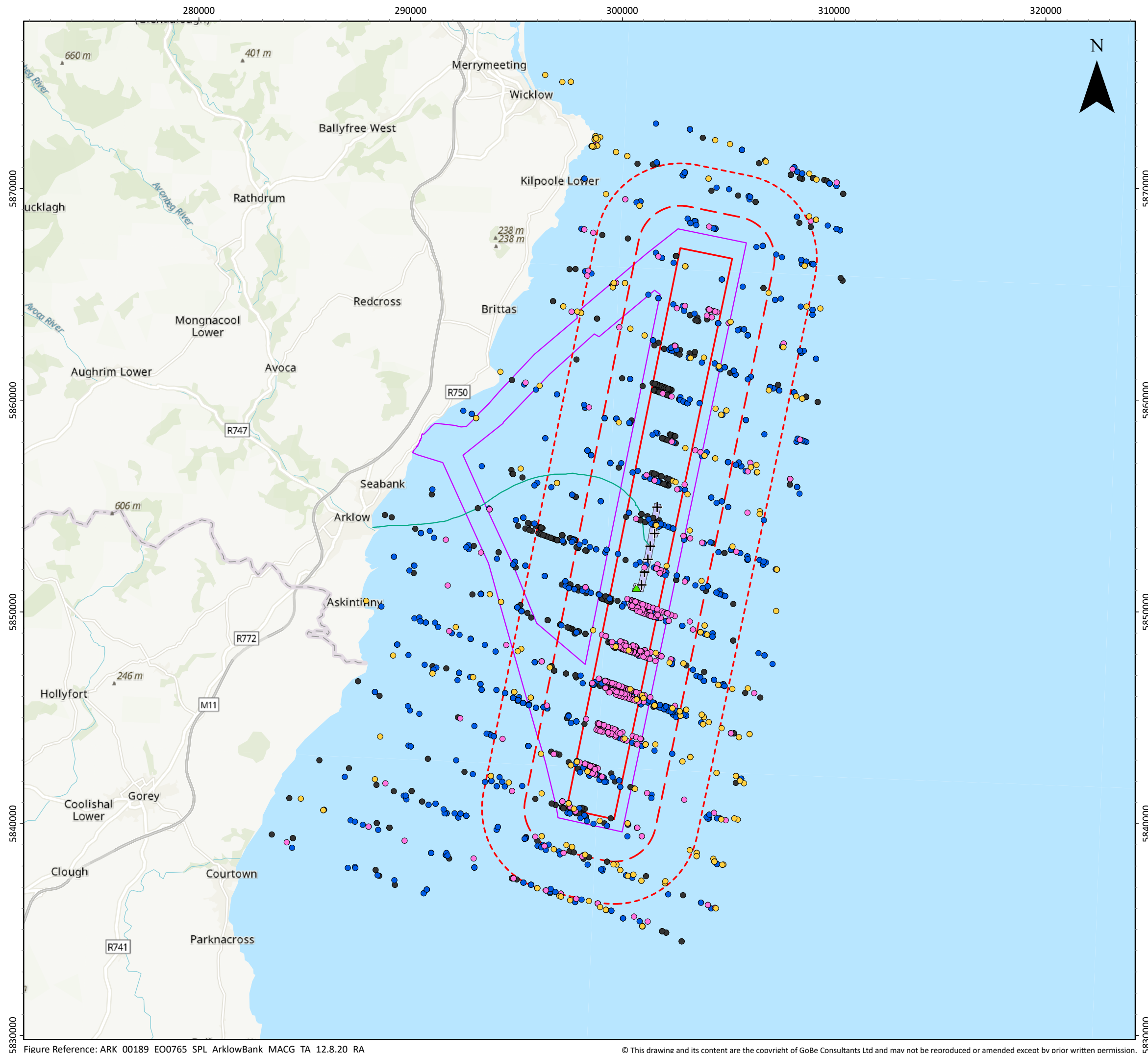
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Scale 1:175,000 @ A3 Date 15/11/2023 Drawn By LD Checked By LF Approved By MT

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Figure Number 12.8.19



Arklow Bank Wind Park 2

Razorbill Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Razorbill Records

- Autumn Migration
- Winter
- Spring Migration
- Breeding



Notes

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Coordinate System:
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0 4 7 km

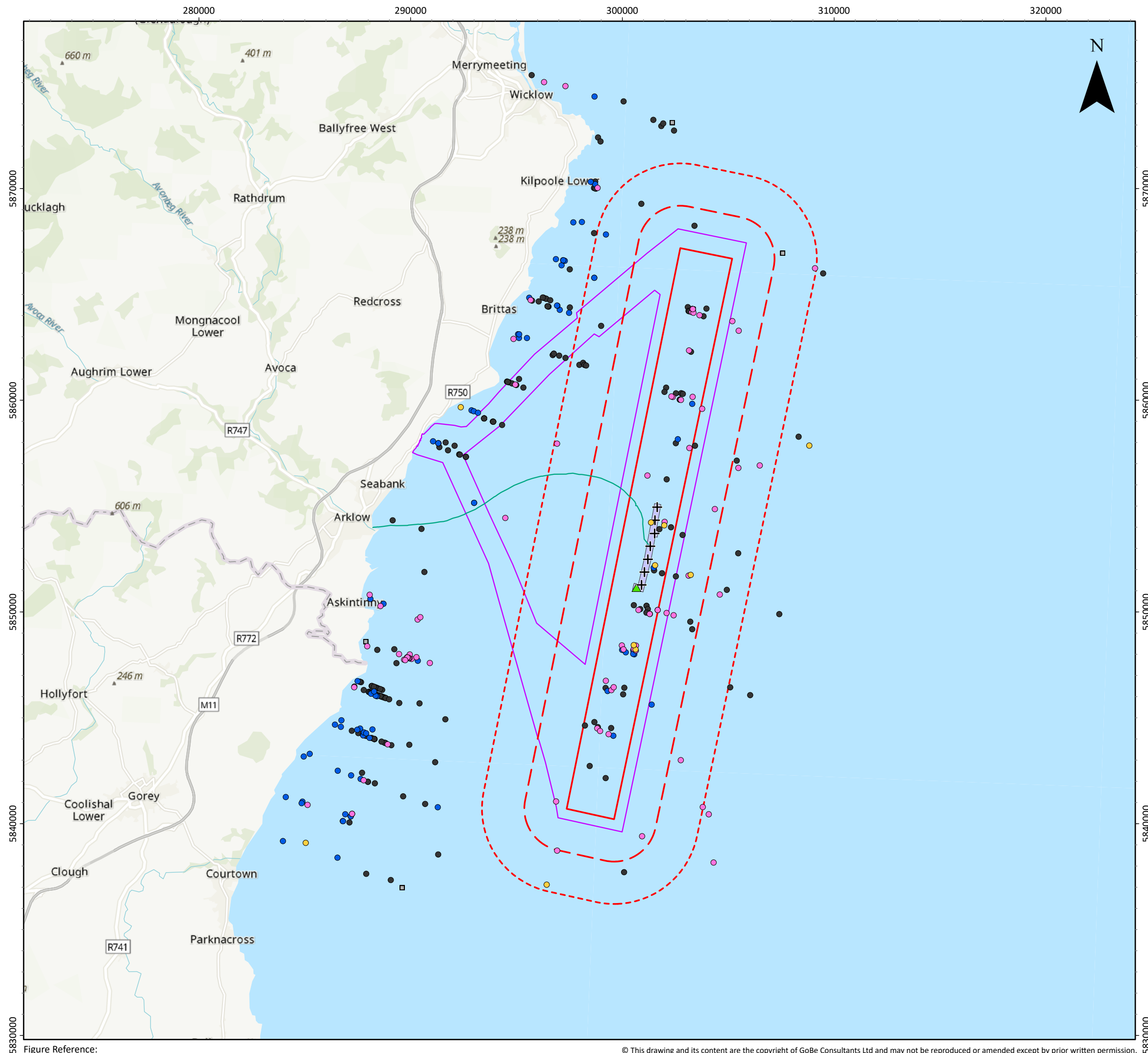
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Scale 1:175,000 @ A3 Date 15/11/2023 Drawn By LD Checked By LF Approved By MT

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Figure Number 12.8.20



Arklow Bank Wind Park 2

Red-throated Diver and Diver Species Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Red-throated Diver Records

- Autumn Migration
- Winter
- Spring Migration
- Breeding

Diver Species Records

- Observation



Notes

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Coordinate System:
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0 4 7 km

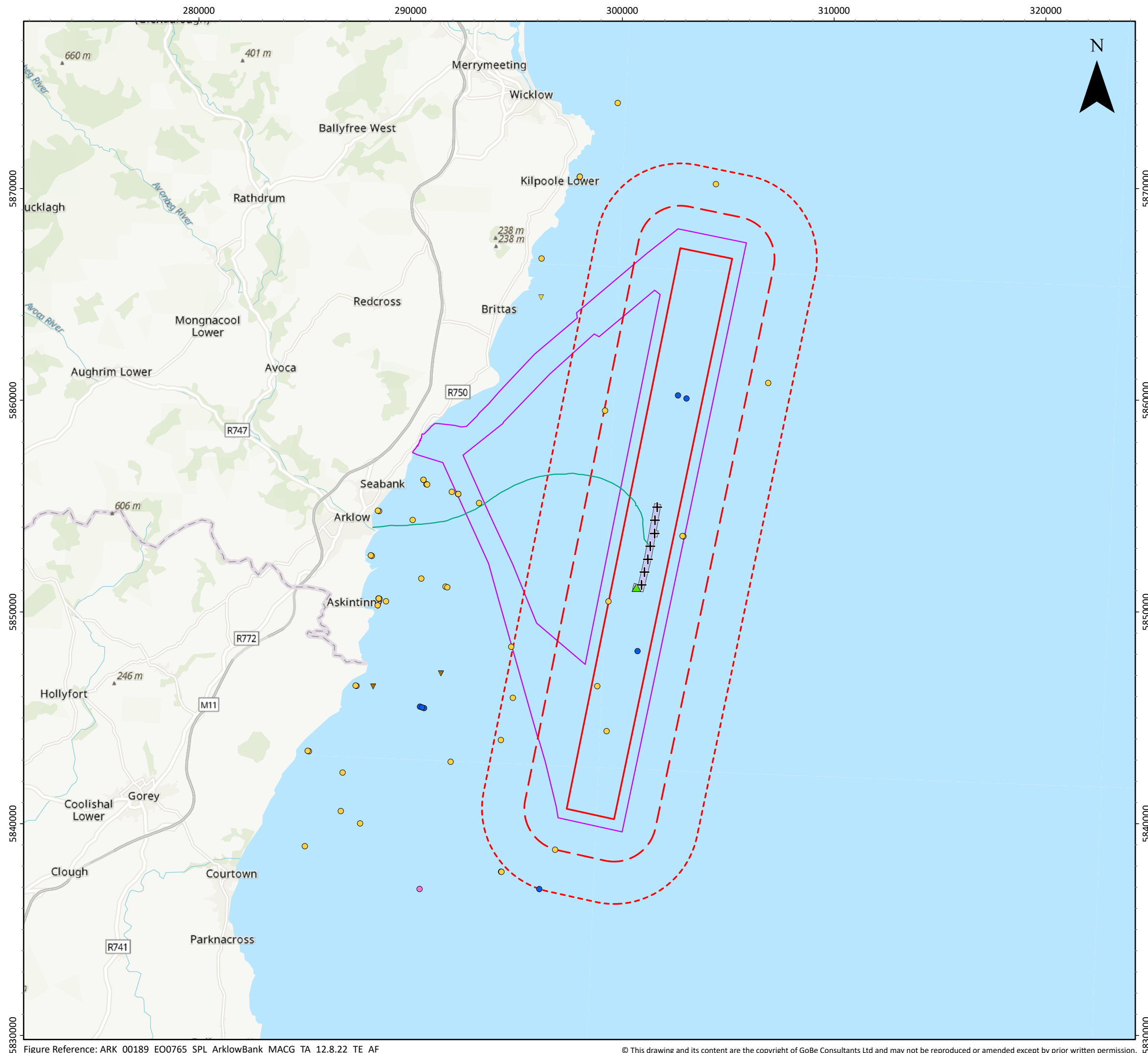
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Figure Number 12.8.21



Arklow Bank Wind Park 2

Sandwich Tern and Little Tern
Records (2018 - 2020)

Legend

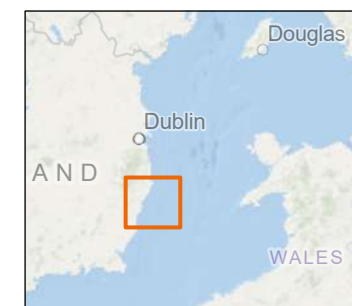
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- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Sandwich Tern Records

- Autumn Migration
- Spring Migration
- Breeding

Little Tern Records

- Breeding
- Nonbreeding



Notes

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Coordinate System:
ETRS 1989 UTM Zone 30N

0 4 7 km

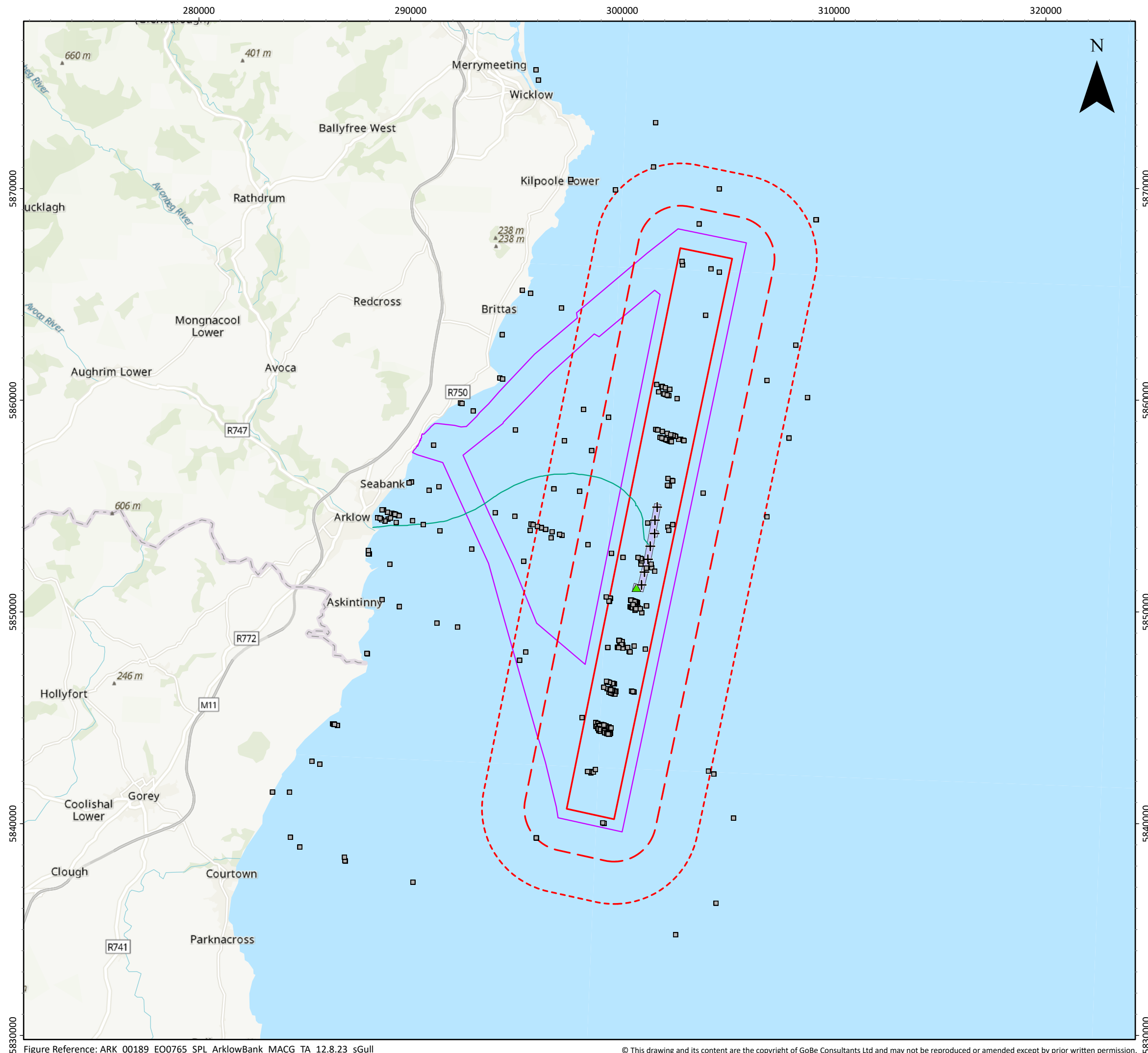
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Figure Number 12.8.22



Arklow Bank Wind Park 2

Small Gull Species Records (2018 - 2020)

Legend

- ABWP2 Array Area
- ABWP1 WTGs
- ABWP1 Existing Met Mast
- ABWP1 Existing Export Cable
- ABWP1 Array Area
- ABWP2 Cable Corridor and Working Area
- ABWP2 Array Area 2 km Buffer
- ABWP2 Array Area 4 km Buffer

Small Gull Species Records

- Observation



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0 2 3 nm

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