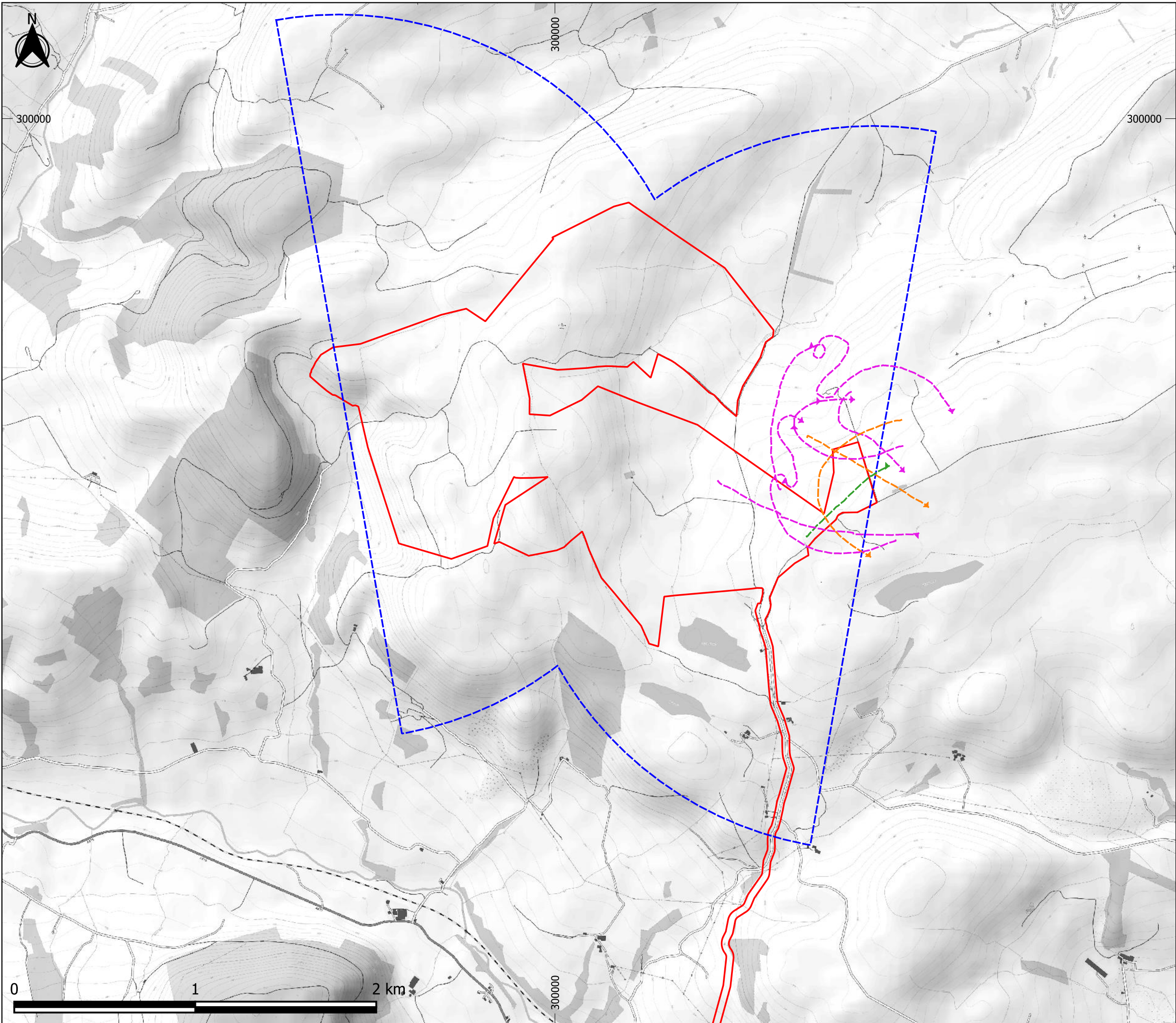




- Legend
- Curlew
 - Goosander
 - Mallard
 - Survey boundary
 - Site boundary



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T: 01633 509000

JOB REF: P23-106

PROJECT TITLE
CALON Y GWYNT WIND FARM

DRAWING TITLE
Figure 10a: Calon y Gwynt Wildfowl and Wader
Flightlines (Breeding Season 2023)

DATE: 25/07/2024	CHECKED: DW	SCALE: 1:20,000
DRAWN: CF	APPROVED: DW	VERSION:1.1

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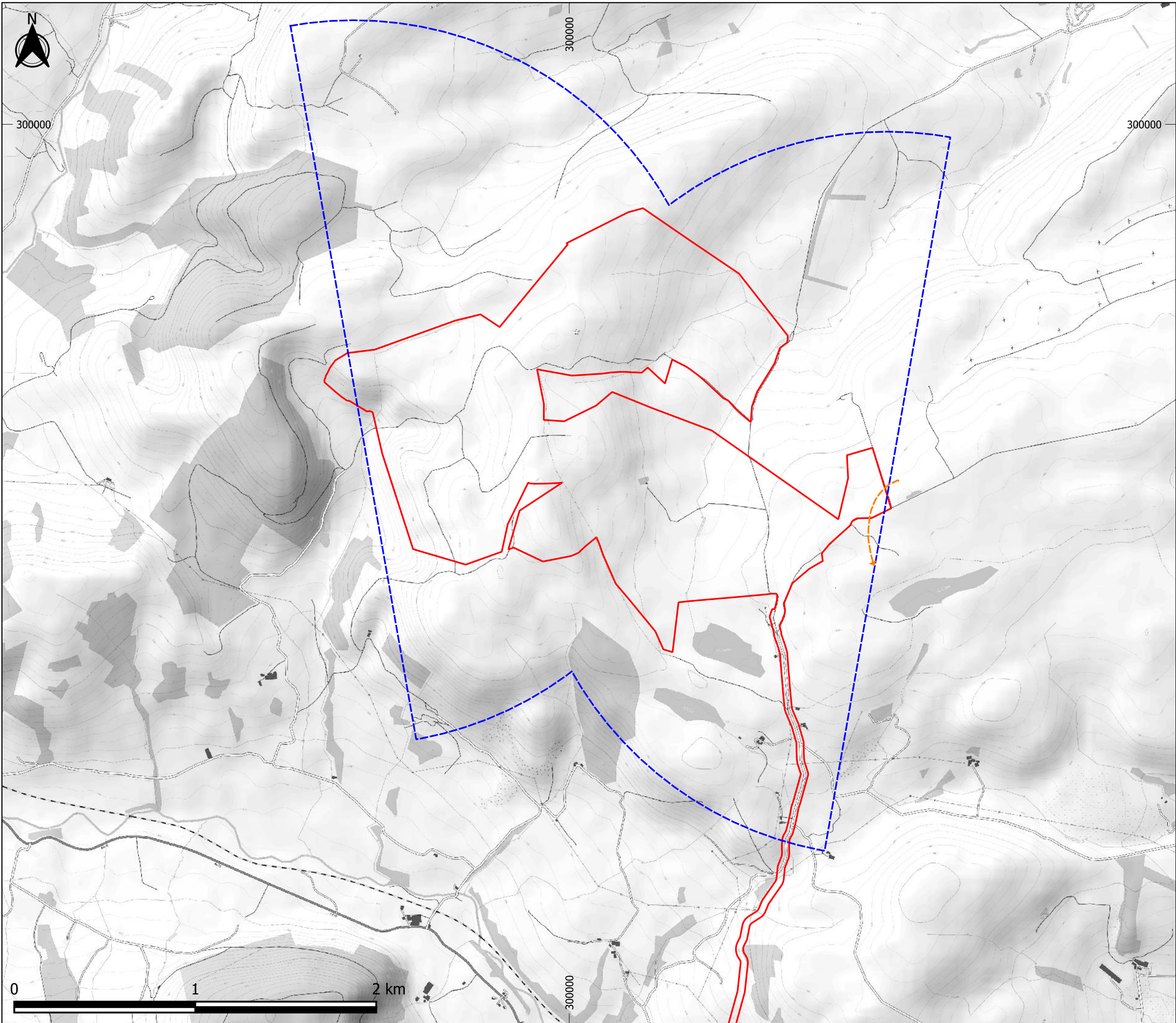
No dimensions are to be scaled from this drawing and are to be checked on site.
Area measurements for indicative purposes only.

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Projection: OSGB 1936/British National Grid - EPSG 27700

Sources: BSG Ecology survey data



Legend

- Goosander
- Survey boundary
- Site boundary



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JOB REF: P23-106

PROJECT TITLE
CALON Y GWYNT WIND FARM

DRAWING TITLE
Figure 10b: Calon y Gwynt Wildfowl and Wader
Flightlines (Winter 2023/24)

DATE: 25/07/2024	CHECKED: DW	SCALE: 1:20,000
DRAWN: CF	APPROVED: DW	VERSION:1.1

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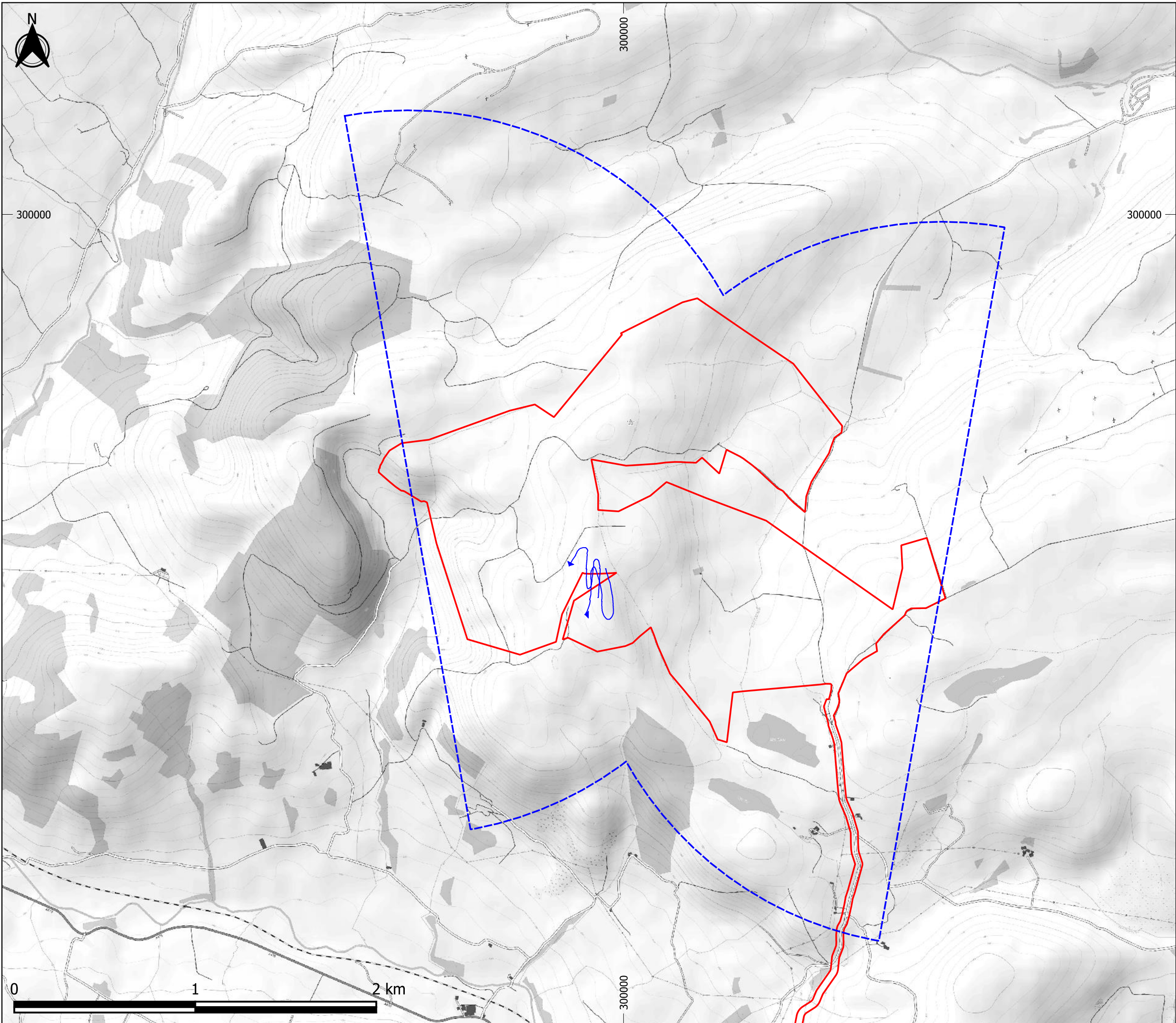
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Legend

- B: at risk height
- Survey boundary
- Site boundary



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PROJECT TITLE
CALON Y GWYNT WIND FARM

DRAWING TITLE
Figure 11a
: Calon y Gwynt Golden Plover Flightlines
(Breeding Season 2023)

DATE: 25/07/2024	CHECKED: DW	SCALE: 1:20,000
DRAWN: CF	APPROVED: DW	VERSION:1.1

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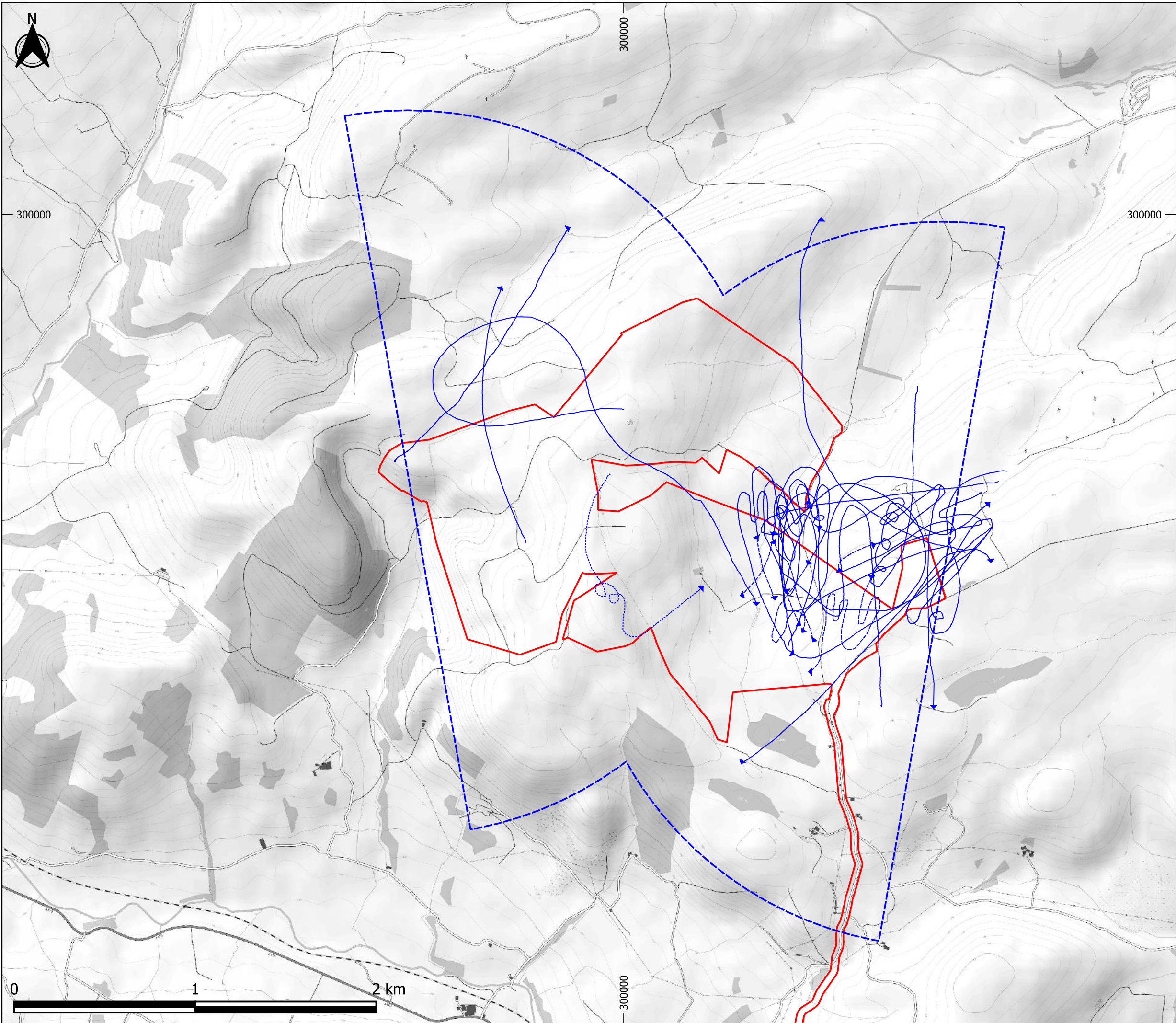
No dimensions are to be scaled from this drawing and are to be checked on site.
Area measurements for indicative purposes only.

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Projection: OSGB 1936/British National Grid - EPSG 27700

Sources: BSG Ecology survey data



Legend

- > A: below risk height
- > B: at risk height
- ...> C: above risk height
- [] Survey boundary
- [] Site boundary



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JOB REF: P23-106

PROJECT TITLE
CALON Y GWYNT WIND FARM

DRAWING TITLE
Figure 11b: Calon y Gwynt Golden Plover
Flightlines (Winter 2023/24)

DATE: 25/07/2024	CHECKED: DW	SCALE: 1:20,000
DRAWN: CF	APPROVED: DW	VERSION:1.1

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Projection: OSGB 1936/British National Grid - EPSG 27700

Sources: BSG Ecology survey data

7 Appendices

Appendix 1: Survey data

Appendix 2: Legal protection afforded to birds in Wales

Appendix 1: Survey data

Table 1: Breeding season 2023 VP survey data

Survey Date	VP	Duration	Weather				Target Species flight count (number of individuals)									
			Wind	Precipitation	Cloud Cover (octets)	Temperature (°C)	CG	CU	GD	GP	HH	K.	KT	MA	PE	SE
03/04/2023	1	14:40 to 17:40	2 - 3	None	1 - 2	8	-	-	-	-	-	-	2 (2)	-	-	-
04/04/2023	1	14:45 to 17:45	2	None	4 - 5	8 - 9	-	-	-	-	-	1 (1)	5 (6)	-	-	-
05/04/2023	3	09:45 to 12:45	2	Light intermittent	0 - 8	9 - 10	1 (3)	-	-	2 (72)	-	-	2 (2)	-	-	-
05/04/2023	3	13:15 to 16:15	2	-	8	10 - 11	-	-	1 (1)	-	-	-	1 (1)	-	-	-
27/04/2023	3	13:00 to 16:00	2	-	8	7 - 8	-	-	-	-	-	-	-	-	-	-
05/05/2023	3	05:15 to 08:15	1 - 2	-	7 - 8	10 - 11	-	3 (3)	-	-	-	-	-	1 (2)	-	-
05/05/2023	3	08:45 to 11:45	1 - 2	Heavy intermittent	7 - 8	11 - 12	-	-	-	-	-	-	2 (2)	-	-	-
05/05/2023	3	12:15 to 15:15	1 - 2	Heavy intermittent	6 - 7	12 - 14	-	2 (4)	-	-	-	-	-	-	-	-
09/05/2023	1	13:00 to 16:00	2	-	4 - 6	14 - 15	-	-	-	-	-	1 (1)	1 (1)	-	-	-
09/05/2023	1	16:30 to 19:30	2	-	4 - 5	13 - 14	-	-	-	-	-	-	1 (1)	-	-	-
24/05/2023	3	13:50 to 16:50	1 - 2	-	1	19 - 20	-	-	-	-	-	2 (2)	4 (4)	1 (1)	-	-
31/05/2023	1	10:40 to 13:40	2 - 3	-	8	15	-	-	-	-	-	-	1 (1)	-	-	-
05/06/2023	3	14:55 to 17:55	2	-	0 - 1	18 - 19	-	-	-	-	-	-	1 (1)	-	-	-
05/06/2023	3	18:45 to 21:45	1 - 2	-	0	15 - 18	-	-	-	-	-	1 (1)	-	-	-	-
14/06/2023	1	09:05 to 12:05	2	-	0	18 - 20	-	-	-	-	-	-	1 (1)	-	-	-
14/06/2023	1	16:05 to 19:05	1 - 2	-	0	20 - 23	-	-	-	-	-	-	2 (2)	-	-	-
14/06/2023	1	12:35 to 15:35	1 - 2	-	0	23	-	-	-	-	-	-	-	-	-	-
03/07/2023	3	14:00 to 17:00	3	-	5 - 7	14 - 16	-	-	-	-	-	-	2 (2)	-	-	-

03/07/2023	3	17:30 to 20:30	3	-	5 - 6	12 - 14	-	-	-	-	-	-	-	-	-	-
05/07/2023	1	11:40 to 15:40	3	-	0 - 7	16 - 21	-	-	-	-	-	3 (3)	1 (1)	-	-	-
05/07/2023	1	15:10 to 18:10	2 - 3	-	6	15	-	-	-	-	-	-	1 (1)	-	-	-
05/07/2023	1	18:40 to 21:40	2 - 3	-	6	13 - 15	-	-	-	-	-	1 (1)	-	-	-	-
14/08/2023	3	14:40 to 17:40	2 - 3	-	7 - 8	16 - 18	-	-	-	-	-	-	-	-	-	-
14/08/2023	1	11:05 to 14:05	2 - 3	-	7 - 8	18	-	-	-	-	-	-	-	-	-	-

Table 2: Non-breeding / winter 2023-2024 VP survey data

Survey Date	VP	Duration	Weather				Target Species flight count (number of individuals)									
			Wind	Precipitation	Cloud Cover (octets)	Temperature (°C)	CG	CU	GD	GP	HH	K.	KT	MA	PE	SE
21/09/2023	1	10:15 to 13:15	1 - 2	-	5 - 7	13 - 15	-	-	-	-	-	2 (2)	8 (10)	-	-	-
21/09/2023	3	13:49 to 16:49	1 - 2	-	1 - 8	13 - 15	-	-	-	-	-	-	1 (4)	-	-	1 (1)
12/10/2023	3	10:30 to 13:30	1	-	4 - 6	9 - 13	-	-	-	7 (226)	-	-	1 (2)	-	-	-
12/10/2023	3	14:00 to 17:00	1	-	7 - 8	13 - 14	-	-	-	2 (74)	1 (1)	1 (1)	1 (1)	-	-	-
19/10/2023	1	15:30 to 18:30	1 - 2	-	7 - 8	12 - 14	-	-	-	1 (7)	-	1 (1)	-	-	-	-
19/10/2023	1	12:00 to 15:00	2	-	7 - 8	15	-	-	-	-	-	-	-	-	-	-
16/11/2023	3	13:25 to 16:25	1	-	7 - 8	4 - 8	-	-	-	-	-	-	3 (4)	-	-	-
16/11/2023	3	09:55 to 12:55	1	-	7 - 8	6 - 8	-	-	-	-	-	-	-	-	-	-
24/11/2023	1	09:55 to 12:55	2	-	6 - 7	6 - 8	-	-	-	-	-	-	1 (1)	-	-	-
24/11/2023	1	13:25 to 16:25	1 - 2	-	2 - 5	5 - 8	-	-	-	1 (27)	-	-	2 (2)	-	-	-
05/01/2024	3	11:30 to 14:30	2	-	3 - 6	4 - 6	-	-	-	1 (70)	-	-	5 (6)	-	-	-
05/01/2024	3	07:59 to 10:59	1 - 2	-	3 - 6	2 - 4	-	-	-	2 (24)	-	-	-	-	-	-
24/01/2024	1	10:25 to 13:25	2 - 3	-	6 - 8	9	-	-	-	1 (2)	-	-	2 (2)	-	1 (1)	-
24/01/2024	1	13:55 to 16:55	3	-	6 - 7	9 - 10	-	-	-	-	-	-	2 (2)	-	-	-
20/02/2024	3	10:40 to 13:40	2 - 3	-	4 - 6	11 - 12	-	-	-	-	-	1 (1)	6 (9)	-	2 (2)	-

20/02/2024	3	14:10 to 17:10	2 - 3	-	4 - 8	11 - 12	-	-	-	-	-	-	1 (1)	-	-	-
28/02/2024	1	11:15 to 14:15	1 - 2	-	8	9 - 10	-	-	-	-	-	1 (1)	-	-	-	-
28/02/2024	1	14:45 to 17:45	2 - 3	-	8	8 - 11	-	-	-	-	-	-	2 (2)	-	-	-
12/03/2024	3	10:31 to 13:31	2 - 3	-	8	11	-	-	-	-	-	-	2 (3)	-	-	-
12/03/2024	3	14:01 to 17:01	3	-	8	11 - 12	1 (2)	-	1 (2)	-	-	-	-	-	-	-
20/03/2024	1	14:05 to 17:05	1	-	7 - 8	10	-	-	-	1 (4)	-	1 (1)	-	-	-	-
20/03/2024	1	10:35 to 13:35	1	-	8	9 - 10	-	-	-	-	-	-	3 (4)	-	-	-
12/03/2024	3	14:01 to 17:01	3	-	8	11 - 12	1 (2)	-	1 (2)	-	-	-	-	-	-	-
20/03/2024	1	14:05 to 17:05	1	-	7 - 8	10	-	-	-	1 (4)	-	1 (1)	-	-	-	-
20/03/2024	1	10:35 to 13:35	1	-	8	9 - 10	-	-	-	-	-	-	3 (4)	-	-	-

Table 3: Breeding raptor survey data

Date	Duration	Wind	Weather			Target Species count (number of individuals)									
			Precipitation	Cloud Cover (octets)	Temperature (°C)	CG	CU	GD	GP	HH	K.	KT	MA	PE	SE
26/04/2023	08:15 to 16:45	2	None	4	10	1 (2)	2 (2)	-	-	-	-	-	1 (1)	-	-
26/04/2023	08:15 to 16:45	2	None	4	10	-	-	-	-	-	-	1 (1)	-	-	-
27/04/2023	08:45 to 13:10	2	Light intermittent	8	9	-	-	-	-	-	-	-	-	-	-
27/04/2023	08:45 to 12:40	2	Light intermittent	8	9	-	-	-	-	-	-	-	-	-	-
24/05/2023	08:00 to 12:00	Not recorded	Not recorded	Not recorded	Not recorded	-	-	-	-	-	-	1 (1)	-	1 (1)	-
24/05/2023	12:30 to 14:00	Not recorded	Not recorded	Not recorded	Not recorded	-	1 (1)	-	-	-	-	-	-	-	-
25/05/2023	09:55 to 14:15	Not recorded	Not recorded	Not recorded	Not recorded	-	-	-	-	-	-	3 (3)	-	-	-
25/05/2023	09:30 to 16:10	Not recorded	Not recorded	Not recorded	Not recorded	3 (14)	2 (6)	-	-	-	-	-	1 (4)	-	-
31/05/2023	17:00 to 17:10	Not recorded	Not recorded	Not recorded	Not recorded	-	-	-	-	-	-	-	-	-	-
31/05/2023	10:25 to 17:40	Not recorded	Not recorded	Not recorded	Not recorded	-	-	-	-	-	-	-	-	-	-
08/06/2023	08:30 to 16:30	2	None	2	19	-	-	-	-	-	-	-	-	-	-
27/06/2023	09:45 to 17:05	1	Light intermittent	8	15	-	-	-	-	-	-	-	-	-	-
27/06/2023	09:45 to 17:00	1	Light intermittent	8	15	-	-	-	-	-	-	1 (1)	-	-	-
28/06/2023	10:00 to 17:20	3	Light intermittent	8	17	-	-	-	-	-	1 (2)	-	-	-	-

28/06/2023	10:00 to 17:20	3	Light intermittent	8	17	-	1 (1)	-	-	-	-	-	1 (3)	-	-
30/06/2023	09:45 to 14:00	4	Light intermittent	8	15	-	-	-	-	-	-	-	-	-	-
18/07/2023	08:30 to 13:00	1	Heavy persistent	8	14	-	-	-	-	-	-	-	-	-	-
19/07/2023	09:45 to 17:50	2	Light intermittent	8	15	-	-	-	-	1 (1)	3 (5)	3 (3)	-	-	-
19/07/2023	09:45 to 17:50	2	Light intermittent	8	15	-	-	-	-	-	-	-	2 (10)	-	-
21/07/2023	08:25 to 17:20	3	None	8	17	-	-	-	-	-	-	4 (6)	-	-	-
21/07/2023	08:30 to 17:20	3	None	8	17	-	-	-	-	-	-	-	-	-	-
08/08/2023	14:40 to 14:42	Not recorded	Not recorded	Not recorded	Not recorded	-	-	-	-	-	-	1 (2)	-	-	-
25/09/2023	08:50 to 16:45	3	None	1	12	-	-	-	2 (37)	-	1 (1)	3 (6)	2 (3)	-	-
31/10/2023	08:45 to 15:55	2	Light intermittent	4	9	1 (2)	-	-	2 (156)	-	-	4 (5)	1 (6)	-	-
29/11/2023	09:55 to 16:25	1	None	3	2	-	-	1 (1)	2 (43)	-	-	2 (3)	1 (3)	-	-
20/12/2023	08:25 to 15:40	3	Heavy intermittent	8	8	-	-	-	-	-	1 (1)	3 (4)	-	-	-
30/01/2024	09:05 to 15:50	2	Light intermittent	6	8	-	-	1 (2)	1 (13)	-	2 (2)	4 (7)	2 (6)	-	-
29/02/2024	08:40 to 16:20	2	Light intermittent	8	8	2 (17)	-	2 (6)	1 (41)	-	-	4 (7)	1 (1)	1 (1)	-

Table 4: Breeding wader survey data

Visit	Date	Time	Weather				Target Species count (number of individuals)		
			Wind (Beaufort)	Rain	Cloud (Otkas)	Temp (°C)	SN	GP	CU
1	22/04/2023	07:55-17:45	2-5 ESE	Nil	6-7	10-12	-		2
	26/04/2023	14:10-17:50	1 SE	Nil	6-2	10-13			
2	05/05/2023	09:00-14:20	1-3 SSW	Nil	5-6	16-17	-	36	4
	25/05/2023	08:30-17:45	1-4 SW	Nil	8	10-12			
3	21/06/2023	08:15-13:50	1-2 SSW	Nil	2	19-20	-		
	23/06/2023	08:00-17:00	1-2 E-SSE	Nil	2-6	22-24			
4	15/07/2023	09:20-16:50	2-4 W	Nil	7-6	17-19	-		
	20/07/2023	08:40-15:40	1-2 NW	Nil	8	19-20			

Table 6: Non-breeding / winter waterfowl and wader survey data

Visit	Date	Time	Weather				Target Species count (number of individuals)				
			Wind (Beaufort)	Rain	Cloud (Otkas)	Temp (°C)	MA	GD	GN	GP	SN
1	25/09/2023	08:50-16:45	3 SW	None	8-5	12					2
2	31/10/2023	08:45-15:55	2 ESE	Light intermittent	1-6	9				14 flights (125)	1
3	29/11/2023	09:55-15:50	1 N	None	8	2				1 flights (27)	1
4	20/12/2023	08:25-16:05	3 WSW	Heavy intermittent	7-3	8					2
5	30/01/2024	09:05-16:05	2 NW	Light intermittent	7-8	8	4	2	3	4 flights (70)	5
6	29/02/2024	08:40-16:20	2 W	Light intermittent	7-8	8	1	(2, 2)	1	1 flights (36)	3
7	30/03/2024	08:35-16.15	2 S	None	7-8	9	4				1

Appendix 2: Legal protection afforded to birds in Wales

- 7.1 All nesting birds are protected under Section 1 of the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to intentionally kill, injure or take any wild bird or take, damage or destroy its nest whilst in use or being built, or take or destroy its eggs. In addition to this, for some rarer species (listed on Schedule 1 of the Act), it is an offence to disturb them whilst they are nest building or at or near a nest with eggs or young, or to disturb the dependent young of such a bird.
- 7.2 The Conservation of Habitats and Species Regulations 2017 (as amended) places duties on competent authorities (including Local Authorities and National Park Authorities) in relation to wild bird habitat. These provisions relate back to Articles 1, 2 and 3 of the EC Directive on the conservation of wild birds (2009/147/EC, 'Birds Directive'¹²) (Regulation 10 (3)) requires that the objective is the 'preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the United Kingdom, including by means of the upkeep, management and creation of such habitat, as appropriate, having regard to the requirements of Article 2 of the new Wild Birds Directive...' Regulation 10 (7) states: 'In considering which measures may be appropriate for the purpose of security or contributing to the objective in [Regulation 10 (3)] Paragraph 3, appropriate account must be taken of economic and recreational requirements'.

In relation to the duties placed on competent authorities under the 2017 Regulations, Regulation 10 (8) states: 'So far as lies within their powers, a competent authority in exercising any function [including in relation to town and country planning] in or in relation to the United Kingdom must use all reasonable endeavours to avoid any pollution or deterioration of habitats of wild birds (except habitats beyond the outer limits of the area to which the new Wild Birds Directive applies).'

¹² 2009/147/EC Birds Directive (30 November 2009). European Parliament and the Council of the European Union.