

Appendix 7E

VP DATA FOR TARGET SPECIES

Appendix 7E: VP data for target species - maps & tables

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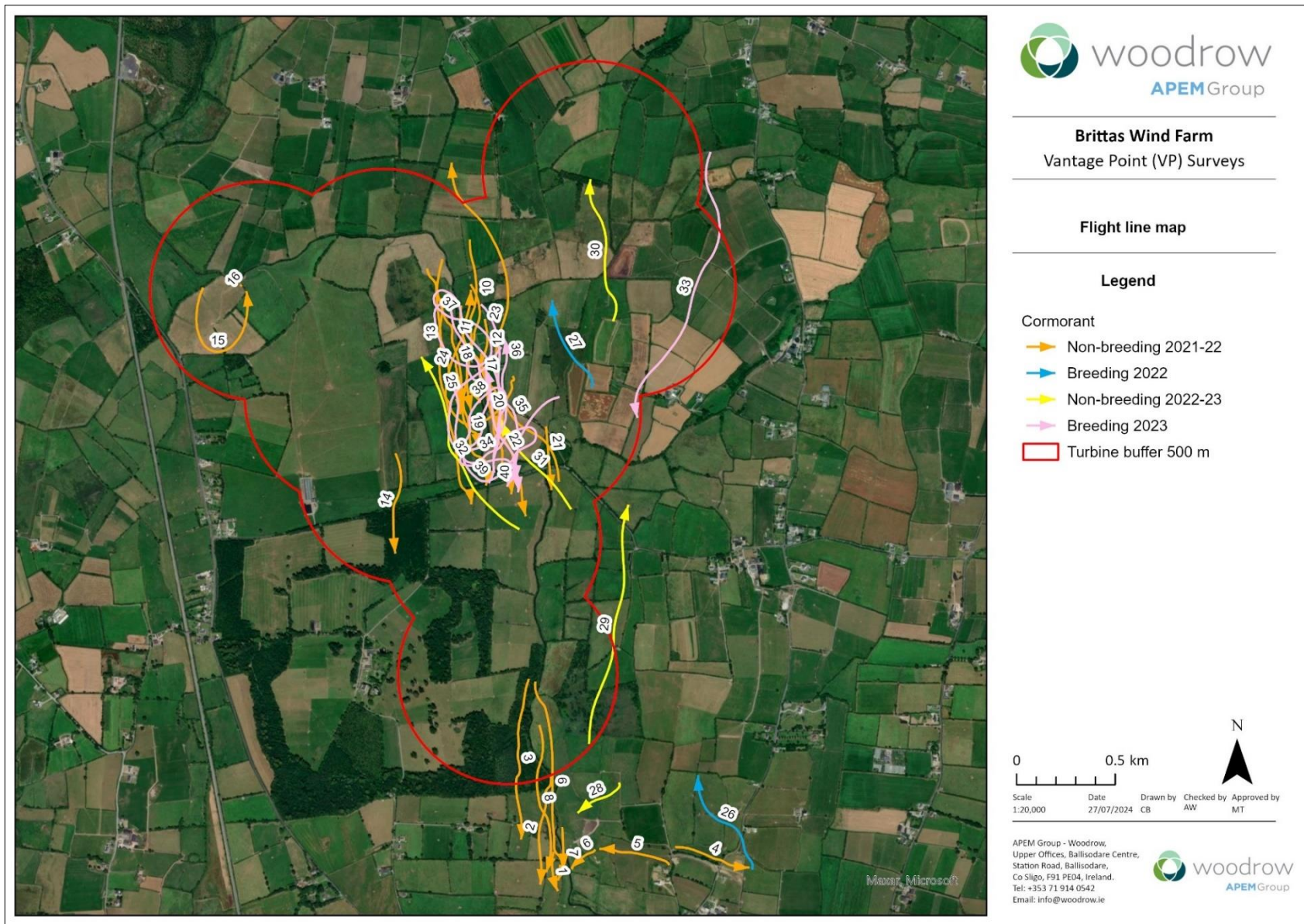


Figure 7E.1: Cormorant observations recorded during VP watches

Table 7E.1: Cormorant data collected during VP watches

	Aggregate seconds = flight/observation time x by the number of birds recorded
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer – flight seconds will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	20/01/2022	1405	1	10	25	25		Ad	Commuting	
2	Non-breeding 2021-22	1	08/02/2022	0912	1	30	15	15		Ad	Commuting	
3	Non-breeding 2021-22	1	08/02/2022	1116	2	80	15	15			Flying	
4	Non-breeding 2021-22	1	24/02/2022	0916	1	20	15	15		Ad	Commuting	
5	Non-breeding 2021-22	1	24/02/2022	0942	1	20	15	15-5		Ad	Flying	
6	Non-breeding 2021-22	1	24/02/2022	0942	1	10	5	5-0		Ad	Flying	
7	Non-breeding 2021-22	1	24/02/2022	1004	1	10	15	15		2CY	Flying	
8	Non-breeding 2021-22	1	07/03/2022	0836	1	30	15	15		Ad	Commuting	
9	Non-breeding 2021-22	1	07/03/2022	916	2	80	20	20		Ad	Commuting	
10	Non-breeding 2021-22	2	08/02/2022	1310	3	180	25	25			Commuting	
11	Non-breeding 2021-22	2	26/02/2022	1436	1	60	15	15		Ad	Commuting	
12	Non-breeding 2021-22	2	26/02/2022	1438	1	50	15	15		Ad	Commuting	
13	Non-breeding 2021-22	2	13/03/2022	1238	1	60	25	25		2CY	Commuting	
14	Non-breeding 2021-22	3	16/12/2021	1310	1	20	15	15			Commuting	
15	Non-breeding 2021-22	3	19/01/2022	1003	2	100	20	20			Flying	
16	Non-breeding 2021-22	3	19/01/2022	1004	2	0	20	20-0			Landed	
17	Non-breeding 2021-22	3	23/01/2022	1038	1	40	25	25		Ad	Commuting	
18	Non-breeding 2021-22	3	24/02/2022	1638	1	60	20	20			Flying	
19	Non-breeding 2021-22	3	26/02/2022	1110	2	80	15	15			Commuting	
20	Non-breeding 2021-22	3	07/03/2022	1508	2	80	20	20			Commuting	
21	Non-breeding 2021-22	4	24/02/2022	1110	2	40	15	15		Ad	Commuting	
22	Non-breeding 2021-22	4	26/02/2022	0836	1	30	10	10		2CY	Flying	
23	Non-breeding 2021-22	4	07/03/2022	1228	1	40	10	10		2CY	Commuting	
24	Non-breeding 2021-22	4	07/03/2022	1308	1	20	15	15		2CY	Flying	
25	Non-breeding 2021-22	4	07/03/2022	1402	1	30	15	15		Ad	Flying	
26	Breeding 2022	1	03/06/2022	1237	1	38	30	30-40		Ad	Flying	Moving north
27	Breeding 2022	2	08/08/2022	0836	1	38	40	40-50			Flying	Travelling flying
28	Non-breeding 2022-23	1	25/01/2023	1153	2	56	20	0-20			Flying	Flying, possibly landing on river
29	Non-breeding 2022-23	1	25/01/2023	1348	1	92	55	0-60			Commuting	Travelling N
30	Non-breeding 2022-23	2	25/01/2023	0846	1	42	20	0-20			Commuting	Flying- travelling N

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Non-breeding 2022-23	4	29/12/2022	1106	3	96	30	30-40		Ad	Flying	Descending onto flooded area
32	Non-breeding 2022-23	4	01/03/2023	0958	1	46	30	30-35		Ad	Flying	Moving N.
33	Breeding 2023	2	31/07/2023	0910	1	48	30	30-0			Flying	
34	Breeding 2023	4	10/08/2023	1149	1	44	15	15		Ad	Flying	
35	Breeding 2023	4	10/08/2023	1209	1	48	5	15-		Juv	Flying	
36	Breeding 2023	4	10/08/2023	1247	1	44	30	5-0		Ad	Flying	
37	Breeding 2023	4	10/08/2023	1340	2	312	50	50-0		Juv	Flying	
38	Breeding 2023	4	10/08/2023	1418	1	29	30	30-		Juv	Flying	
39	Breeding 2023	4	20/09/2023	1601	1	39	15	39-0		Juv	Flying	
40	Breeding 2023	4	20/09/2023	1724	1	24	30	0-30		Juv	Flying	

Wader species with low incidence rate



Figure 7E.2: Curlew observations recorded during VP watches



Figure 7E.4: Green sandpiper observations recorded during VP watches



Figure 7E.3: Dunlin observations recorded during VP watches

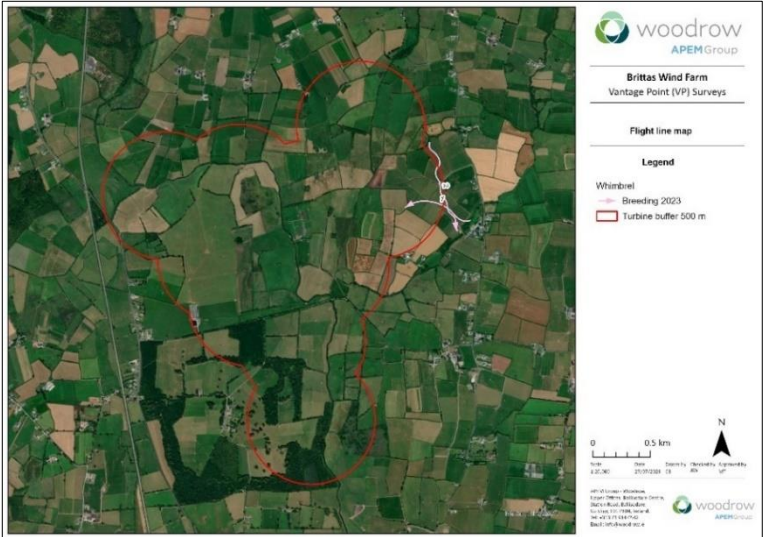


Figure 7E.5: Whimbrel observations recorded during VP watches

Wader species with low incidence rate

	Aggregate seconds = flight/observation time x by the number of birds
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer – flight seconds will be excluded from CRM

Table 7E.2: Curlew data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2023	1	09/06/2023	2006	1	35	60	60		Ad	Flying	Flying and calling outside the 500 m turbine buffer

Table 7E.3: Dunlin data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
	Non-breeding 2022-23	4	30/11/2022	1100	?							Heard calling ONLY – not marked on map
1	Non-breeding 2022-23	4	29/12/2022	1048	16	720	30	30-40		Ad	Flying	Short flight then dropped back down onto flooded area

Table 7E.4: Green sandpiper data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2023	4	28/08/2023	1523	1	11	10			Ad	Flying	

Table 7E.5: Whimbrel data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2023	2	09/08/2023	1509	3	174	20	0-20		Ad	Flying	Possibly curlew
2	Breeding 2023	2	09/08/2023	1638	3	219	35	0-35		Ad	Flying	Possibly curlew

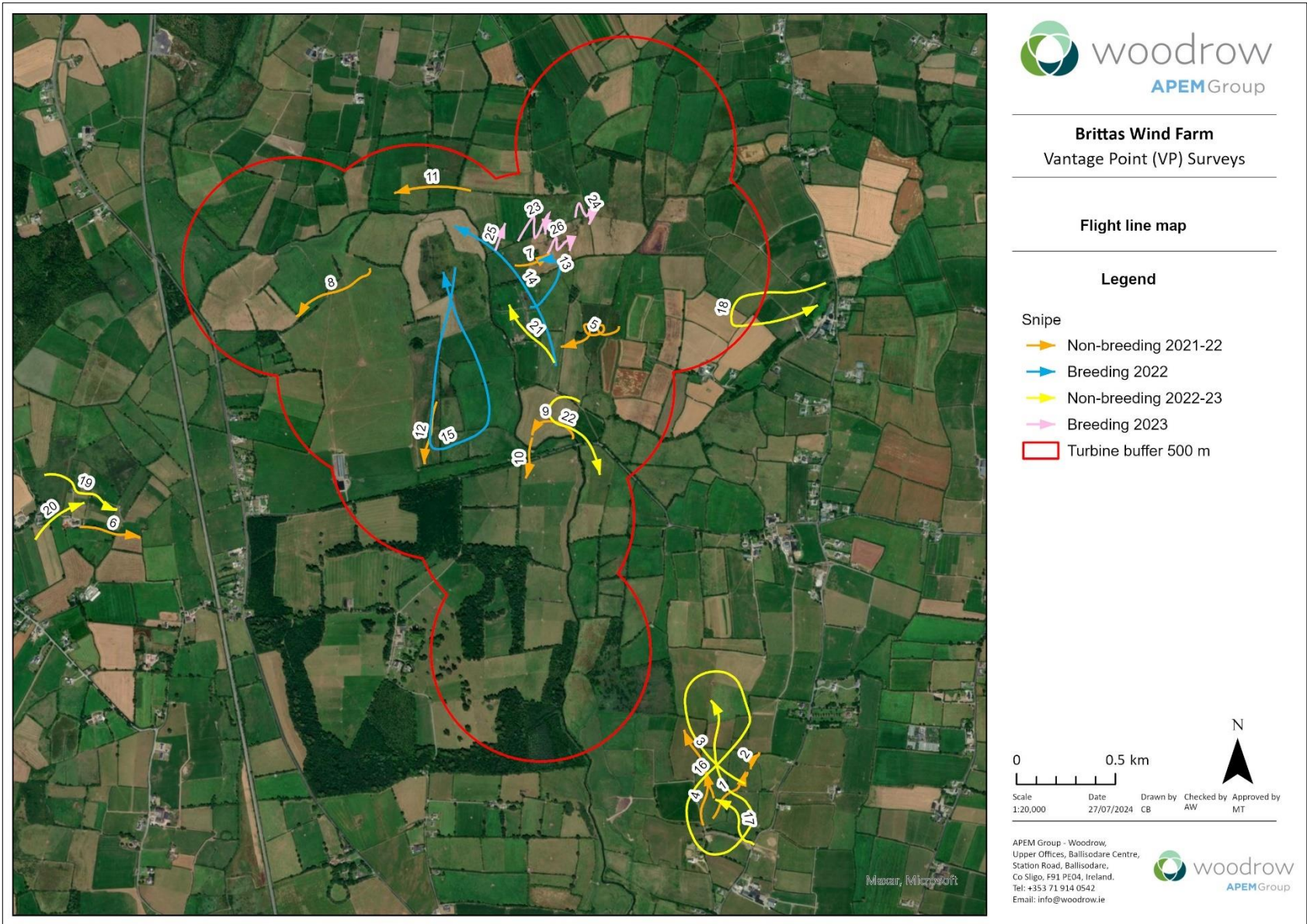


Figure 7E.6: Snipe observations recorded during VP watches

Table 7E.6: Snipe data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer – flight seconds will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
1	Non-breeding 2021-22	1	11/11/2021	1349	1	20	25	10-25			Commuting	
2	Non-breeding 2021-22	1	11/11/2021	1350	1	5	10	10			Commuting	
3	Non-breeding 2021-22	1	16/12/2021	1012	1	20	35	35			Flying	
4	Non-breeding 2021-22	1	08/02/2022	1028	1	10	20	20		A	Flying	
5	Non-breeding 2021-22	2	22/11/2021	1303	7	70	45	45			Commuting	
6	Non-breeding 2021-22	3	26/10/2021	1004	1	30	35	35			Commuting	
7	Non-breeding 2021-22	4	25/10/2021	0942	3	30	25	25			Commuting	
8	Non-breeding 2021-22	4	12/11/2021	0849	4	240	35	35			Commuting	
9	Non-breeding 2021-22	4	12/11/2021	1018	4	40	3	3-25			Commuting	
10	Non-breeding 2021-22	4	12/11/2021	1019	4	40	25	25			Commuting	
11	Non-breeding 2021-22	4	13/11/2021	1201	1	30	25	25			Commuting	
12	Non-breeding 2021-22	4	13/11/2021	1215	2	20	25	25			Commuting	
13	Breeding 2022	4	06/05/2022	1125	1	10	25	0-25			landed	in wet grassland
14	Breeding 2022	4	22/08/2022	1625	1	30	20	1-20			Flying	landed in wet field
15	Breeding 2022	4	22/08/2022	1800	2	560	20	1-20			Flying	circling area, landed
16	Non-breeding 2022-23	1	27/11/2022	1434	19	1,330	40	10-50			Circling	Wheeling flock circled multiple times then landed near fen area
17	Non-breeding 2022-23	1	12/12/2022	1020	2	32	10	10-50		Ad	Flying	Flying through fog out of site. See map
18	Non-breeding 2022-23	2	28/11/2022	1054	1	25	12	10-20			Circling	Circled into buffer and back
19	Non-breeding 2022-23	3	29/10/2022	1020	2	110	40	40-50		Ad	Flying	Commuting flight see map SN
20	Non-breeding 2022-23	3	29/12/2022	1407	2	32	30	30-40	M+F	Ad	Flying	Quick flight
21	Non-breeding 2022-23	4	30/11/2022	1043	1	5	10	10			Flying	
22	Non-breeding 2022-23	4	09/12/2022	1048	3	42	10	10-15		Ad	Flying	Moving S
23	Breeding season 2023	4	26/06/2023	1736	1	120	80	40-80		Ad	Displaying	
24	Breeding season 2023	4	26/06/2023	1751	1	180	80	40-80			Displaying	
25	Breeding season 2023	4	26/06/2023	1914	1	10	30	30			Flying	
26	Breeding season 2023	4	26/06/2023	1936	1	120	60	60			Displaying	

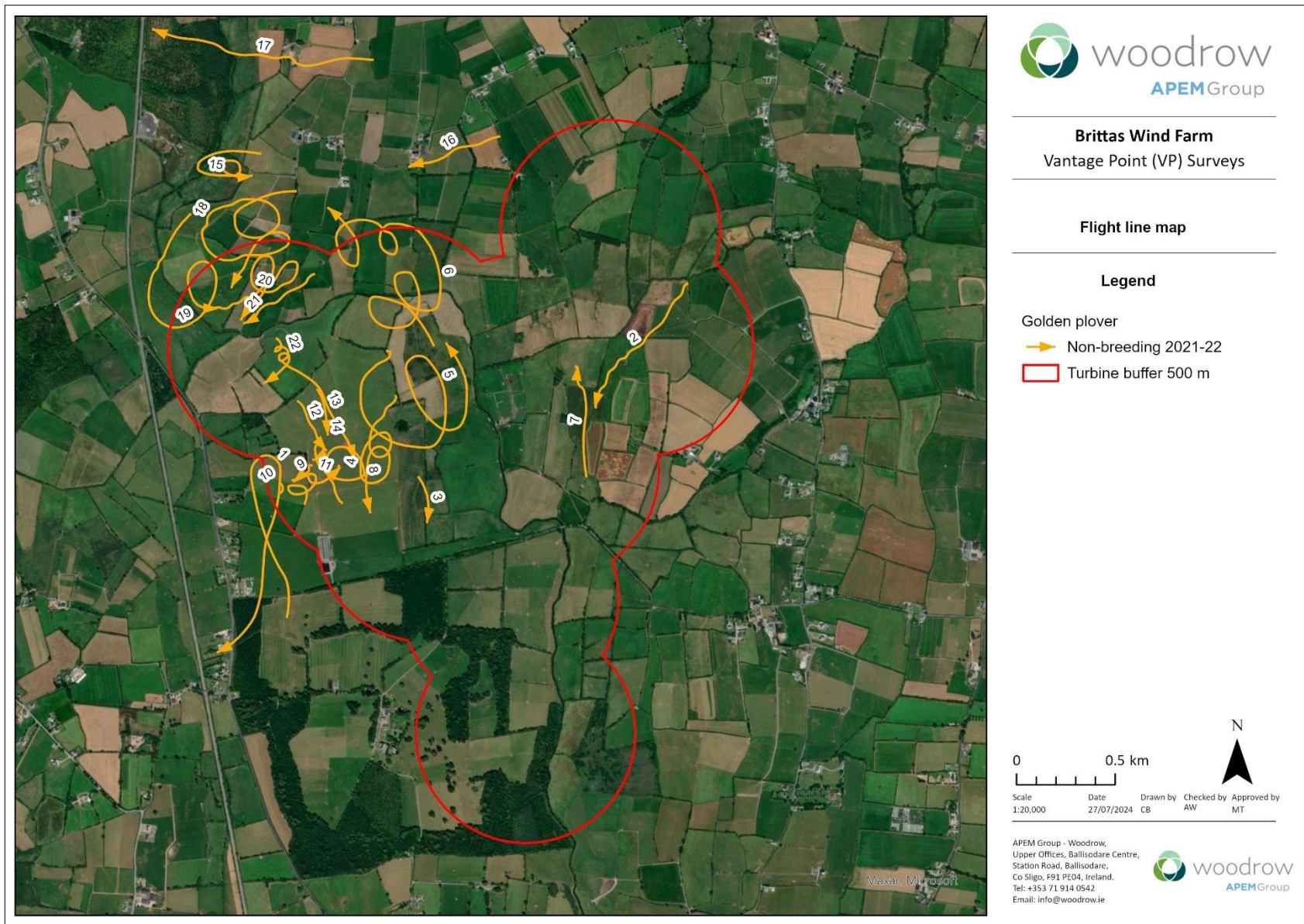


Figure 7E.7: Golden plover observations recorded during VP watches - non-breeding season 2021-22

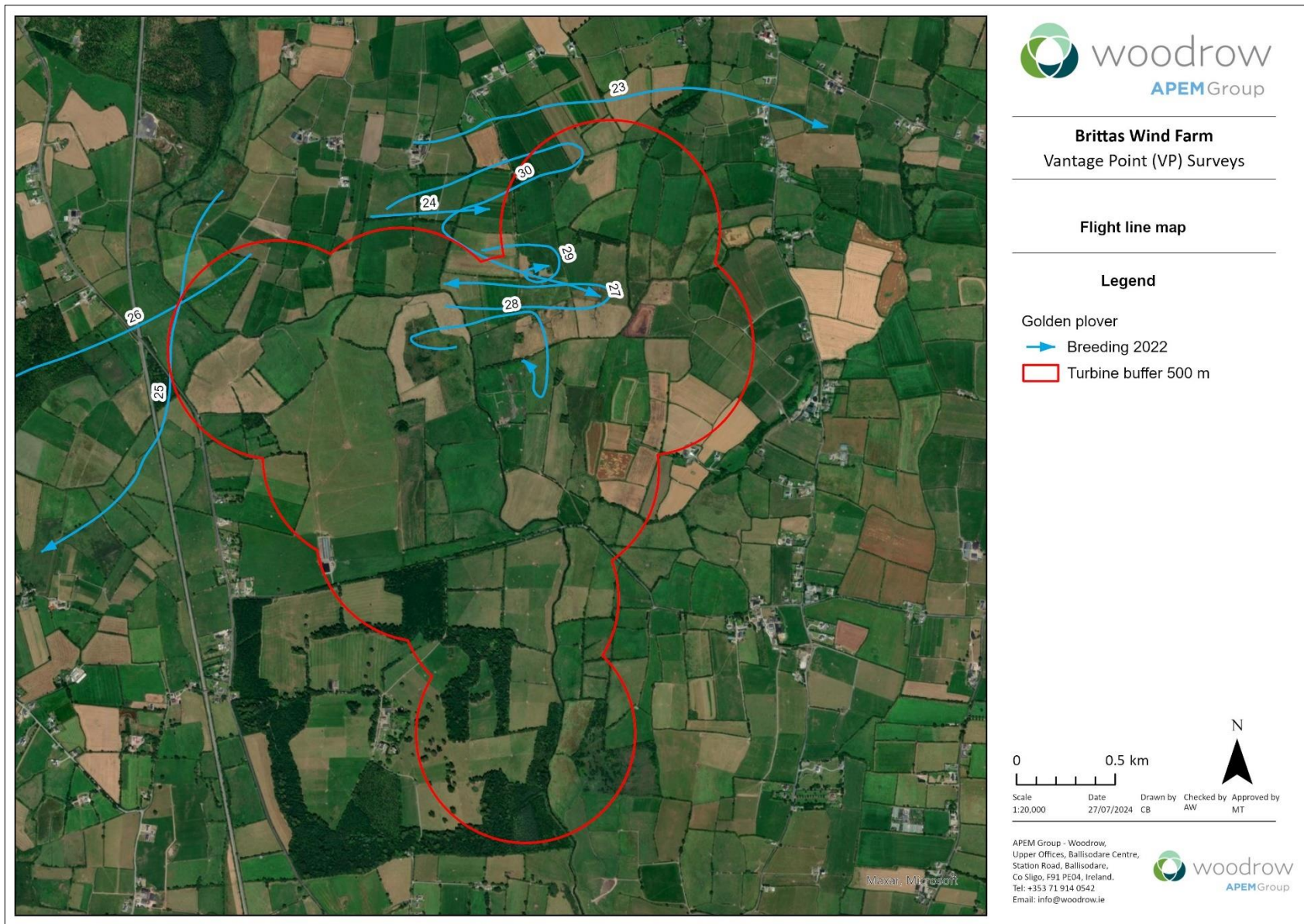


Figure 7E.8: Golden plover observations recorded during VP watches - breeding season 2022

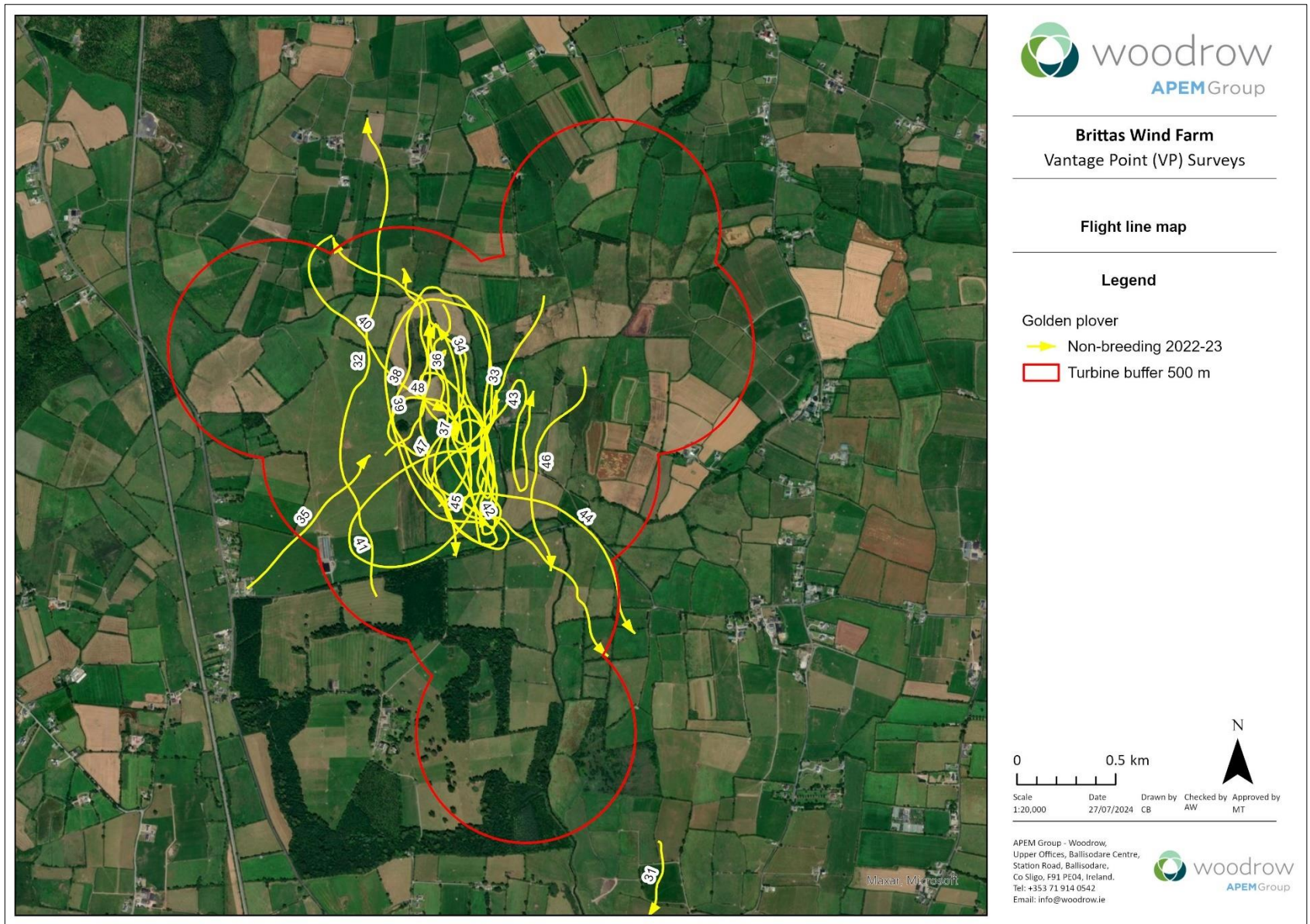


Figure 7E.9: Golden plover observations recorded during VP watches - non-breeding season 2022-23

Table 7E.7: Golden plover data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	24/10/2021	1033	94	16,920	50	50			Commuting	Circling high and then left area
2	Non-breeding 2021-22	2	23/10/2021	1717	14	840	50	50			Commuting	
3	Non-breeding 2021-22	3	26/10/2021	0907	5	75	30	30			Commuting	
4	Non-breeding 2021-22	3	26/10/2021	1011	62	11,160	50	50			Circling	
5	Non-breeding 2021-22	3	26/10/2021	1015	120	28,800	100	100			Circling	
6	Non-breeding 2021-22	3	26/10/2021	1308	72	9,360	60	60			Commuting	
7	Non-breeding 2021-22	3	23/11/2021	1318	19	570	40	40			Commuting	
8	Non-breeding 2021-22	3	23/11/2021	1356	72	2,880	50	30-50			Circling	
9	Non-breeding 2021-22	3	23/11/2021	1357	72	720	30	0-30			Circling	
10	Non-breeding 2021-22	3	23/11/2021	1357	72	720	0	0			Landed	Flock lands over period of c. 10 seconds
11	Non-breeding 2021-22	3	23/11/2021	1419	24	480	25	25			Circling	
12	Non-breeding 2021-22	3	24/11/2021	1046	17	340	10	10			Commuting	
13	Non-breeding 2021-22	3	24/11/2021	1051	47	2,820	25	25			Commuting	
14	Non-breeding 2021-22	3	21/12/2021	1013	4	80	40	40			Commuting	
15	Non-breeding 2021-22	4	24/10/2021	1654	3	180	30	30			Circling	
16	Non-breeding 2021-22	4	24/10/2021	1705	5	150	50	50			Commuting	
17	Non-breeding 2021-22	4	25/10/2021	0855	160	19,200	100	100			Commuting	
18	Non-breeding 2021-22	4	25/10/2021	0901	80	9,600	40	40			Circling	
19	Non-breeding 2021-22	4	25/10/2021	0915	120	54,000	50	30-50			Circling	Flock circling over area for 15 mins
20	Non-breeding 2021-22	4	25/10/2021	0930	120	54,000	30	30-50			Circling	
21	Non-breeding 2021-22	4	25/10/2021	1012	110	3,300	20	20			Commuting	
22	Non-breeding 2021-22	4	12/11/2021	0835	100	6,000	15	15			Circling	
23	Breeding 2022	2	13/04/2022	1140	40	4,600	50	40-50			Commuting	Two groups landed off site total 70-80 birds
24	Breeding 2022	3	18/04/2022	1145	60	18,000	100	80-100			Commuting	At edge of 500 m buffer
25	Breeding 2022	3	18/04/2022	1240	33	2,640	40	10-40			Commuting	SW away from site
26	Breeding 2022	3	18/04/2022	1547	30	1,800	25	10-25			Commuting	Through site
27	Breeding 2022	4	12/04/2022	1700	18	3,240	40	30-40			Circling	
28	Breeding 2022	4	12/04/2022	1715	40	9,200	80	50-80			Circling	
29	Breeding 2022	4	12/04/2022	1823	45	18,900	30	10-30			Circling	Landed, likely roosting
30	Breeding 2022	4	12/04/2022	1422	60	39,600	210	150-210			Circling	High up going out of view behind cloud

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Non-breeding 2022-23	1	25/01/2023	1354	7	210	30	0-30			Flying	Landing into improved grassland
32	Non-breeding 2022-23	2	28/11/2022	1045	30	1,350	50	40-60			Flying	Flew north along river
33	Non-breeding 2022-23	2	28/11/2022	1125	40	800	50	40-60			Flying	Mixed flock of GP & L, flying along river flood plain
34	Non-breeding 2022-23	2	28/11/2022	1127	120	6,000	60	50-70			Flying	Mixed flock of GP & L
35	Non-breeding 2022-23	2	28/11/2022	1151	350	35,000	100	100-140			Flying	Mixed flock of GP & L
36	Non-breeding 2022-23	2	28/11/2022	1152	350	22,750	60	50-70			Flying	Flock continuing north
37	Non-breeding 2022-23	2	28/11/2022	1156	20	600	20	15-25			Flying	Mixed flock took flight, looped around, returning to roughly same spot
38	Non-breeding 2022-23	2	28/11/2022	1210	400	192,000	50	40-120			Circling	Big mixed flocks circling for 8 minutes, many separate flocks at different heights, tough to track
39	Non-breeding 2022-23	2	28/11/2022	1210	120	57,600	50	40-120			Circling	Big mixed flocks circling for 8 minutes, many separate flocks at different heights, tough to track
40	Non-breeding 2022-23	2	28/11/2022	1305	200	48,000	40	30-50			Flying	Sub-flock relocating in floodplain
41	Non-breeding 2022-23	2	28/11/2022	1430	50	4,000	80	70-100			Flying	Mixed flock of GP & L, flying along river flood plain
42	Non-breeding 2022-23	3	29/11/2022	1057	250	30,000	200	100-250			Circling	Circling flock around floods NW of VP4
43	Non-breeding 2022-23	3	29/11/2022	1120	70	6,300	80	70-90			Circling	Circling flock around floods NW of VP4
44	Non-breeding 2022-23	3	29/11/2022	1210	120	28,800	200	150-250			Flying	Flew SE along river valley
45	Non-breeding 2022-23	3	29/11/2022	1307	60	7,200	80	60-100			Flying	Flying SE along river
46	Non-breeding 2022-23	4	30/11/2022	1112	27	810	30	30			Flying	
47	Non-breeding 2022-23	4	30/11/2022	1319	3	120	40	30-60			Flying	
48	Non-breeding 2022-23	4	29/12/2022	1143	70	8,750	30	30-60			Flying	Flying up then settling back on flooded area

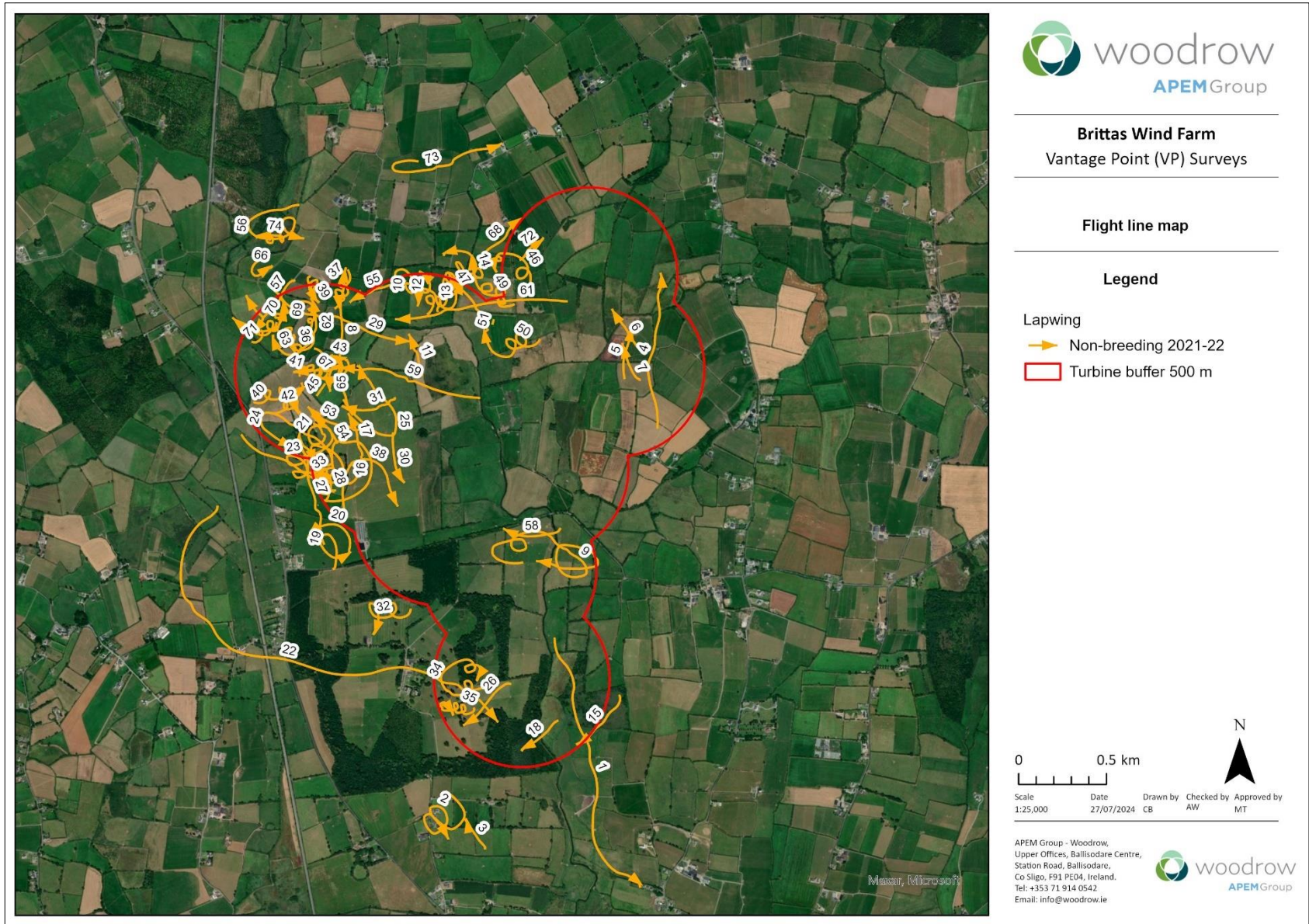


Figure 7E.10: Lapwing observations recorded during VP watches - non-breeding season 2021-22

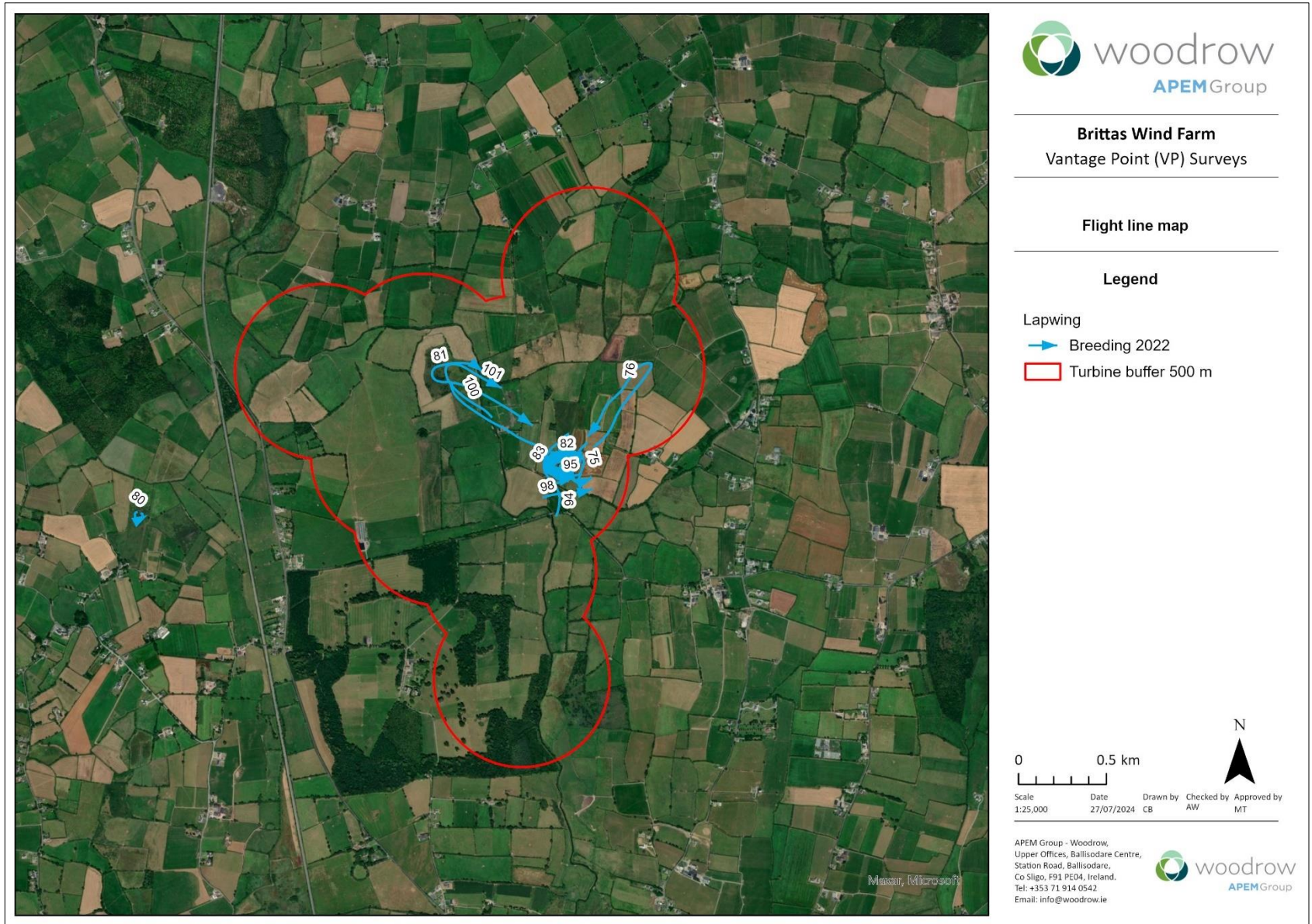


Figure 7E.11: Lapwing observations recorded during VP watches - breeding season 2022

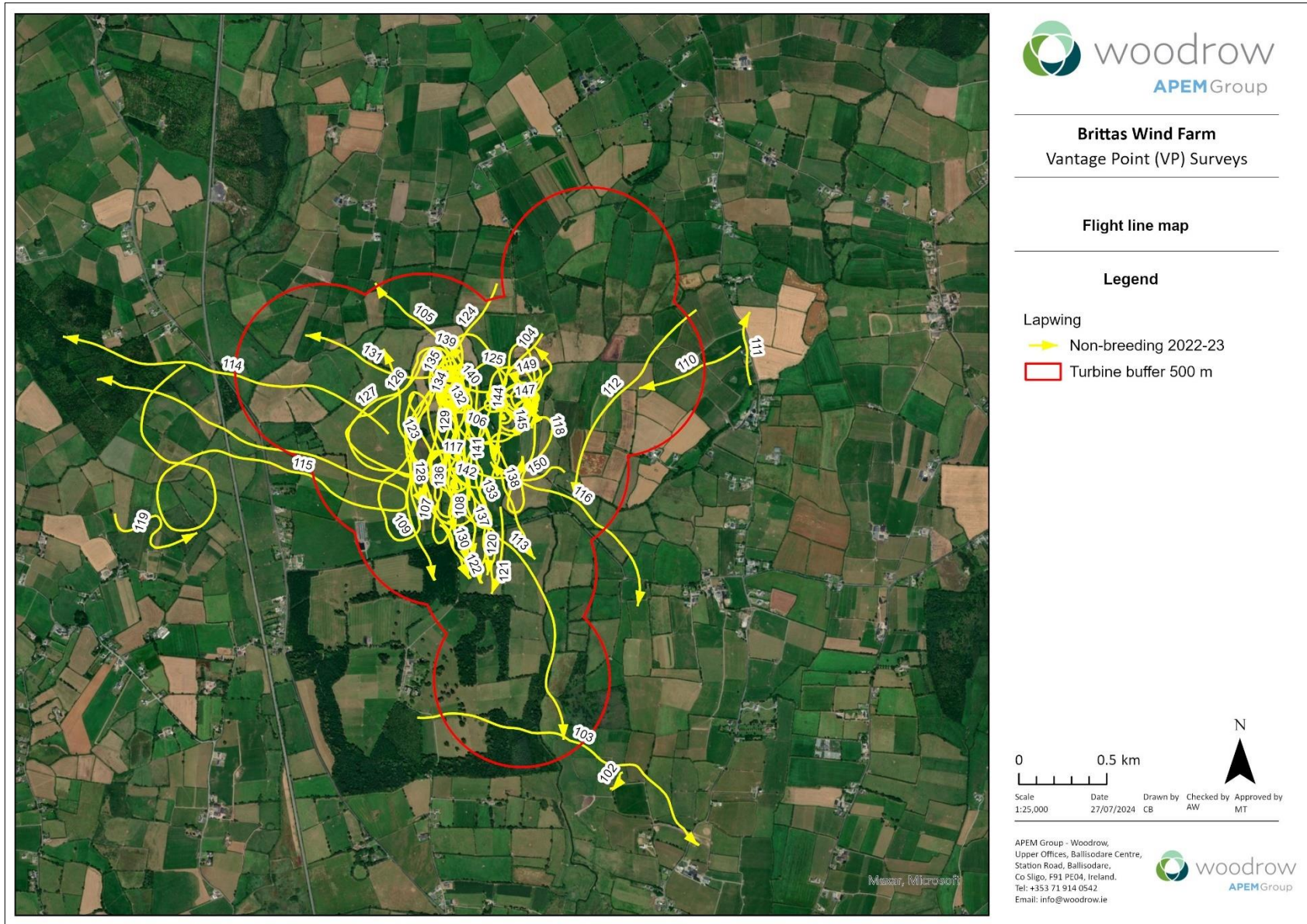


Figure 7E.12: Lapwing observations recorded during VP watches - non-breeding season 2022-23

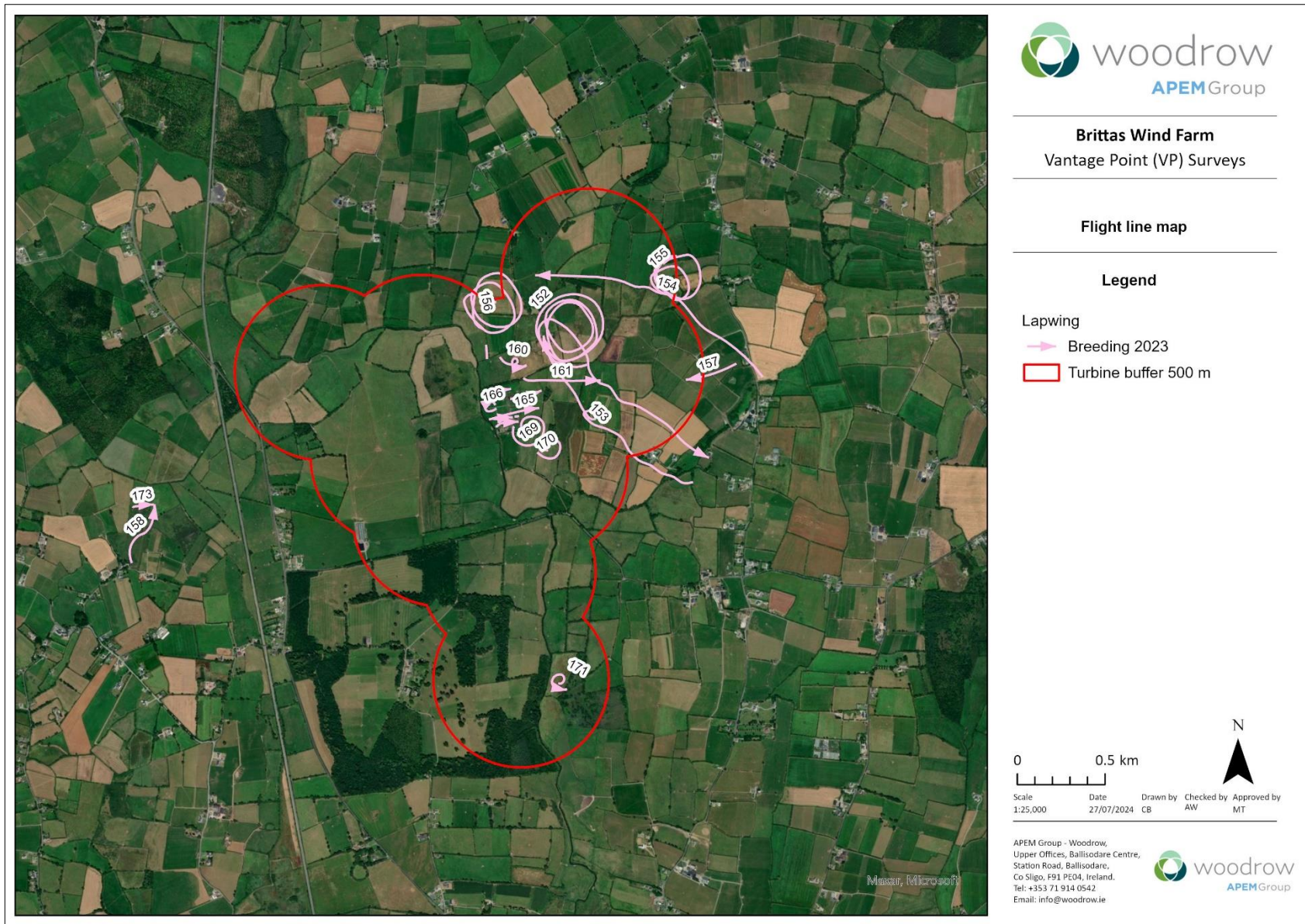


Figure 7E.13: Lapwing observations recorded during VP watches - breeding season 2023

Table 7E.8: Lapwing data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
1	Non-breeding 2021-22	1	24/10/2021	0927	9	810	15	15			Commuting	
2	Non-breeding 2021-22	1	11/11/2021	1046	40	2,400	35	35			Circling	
3	Non-breeding 2021-22	1	18/01/2022	1216	4	80	30	30			Commuting	
4	Non-breeding 2021-22	2	23/10/2021	1402	11	1,320	30	30			Commuting	
5	Non-breeding 2021-22	2	23/10/2021	1438	6	90	20	20			Commuting	
6	Non-breeding 2021-22	2	22/11/2021	0917	3	180	35	35			Commuting	
7	Non-breeding 2021-22	2	22/11/2021	0946	1	60	40	40			Commuting	
8	Non-breeding 2021-22	2	22/11/2021	1149	28	3,360	40	40			Commuting	
9	Non-breeding 2021-22	2	22/11/2021	1242	112	13,440	40	40			Circling	
10	Non-breeding 2021-22	2	01/12/2021	1237	37	370	20	20			Circling	
11	Non-breeding 2021-22	2	01/12/2021	1402	6	60	20	20			Commuting	
12	Non-breeding 2021-22	2	20/12/2021	0958	36	720	35	35			Circling	
13	Non-breeding 2021-22	2	20/12/2021	1127	48	2,880	25	25			Circling	
14	Non-breeding 2021-22	2	26/02/2022	1546	32	1,920	40	40			Circling	
15	Non-breeding 2021-22	3	26/10/2021	0850	90	5,400	40	40			Commuting	
16	Non-breeding 2021-22	3	26/10/2021	0939	33	2,640	20	20-40			Circling	
17	Non-breeding 2021-22	3	26/10/2021	0941	33	330	40	40			Circling	
18	Non-breeding 2021-22	3	26/10/2021	0944	42	2,520	30	30			Commuting	
19	Non-breeding 2021-22	3	26/10/2021	0957	56	3,360	20	0-20			Circling	
20	Non-breeding 2021-22	3	26/10/2021	0958	56	0	0	0			Landed	
21	Non-breeding 2021-22	3	26/10/2021	1005	36	4,320	25	25			Circling	
22	Non-breeding 2021-22	3	26/10/2021	1014	42	6,720	25	25			Commuting	
23	Non-breeding 2021-22	3	26/10/2021	1050	36	2,160	40	40			Circling	
24	Non-breeding 2021-22	3	26/10/2021	1206	46	11,040	40	40			Circling	
25	Non-breeding 2021-22	3	26/10/2021	1307	44	2,640	40	40			Commuting	
26	Non-breeding 2021-22	3	26/10/2021	1353	11	110	40	40			Commuting	
27	Non-breeding 2021-22	3	23/11/2021	1232	56	1,680	40	40			Commuting	
28	Non-breeding 2021-22	3	23/11/2021	1419	80	2,400	10	10			Circling	

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
29	Non-breeding 2021-22	3	23/11/2021	1436	60	3,600	40	40			Commuting	
30	Non-breeding 2021-22	3	24/11/2021	0827	14	420	35	35			Commuting	
31	Non-breeding 2021-22	3	24/11/2021	0914	36	720	20	20			Commuting	
32	Non-breeding 2021-22	3	24/11/2021	1035	11	660	20	20			Circling	
33	Non-breeding 2021-22	3	24/11/2021	1039	86	10,320	20	20			Circling	
34	Non-breeding 2021-22	3	02/12/2021	1413	44	7,040	20	20			Circling	
35	Non-breeding 2021-22	3	02/12/2021	1425	27	810	20	20			Circling	
36	Non-breeding 2021-22	3	16/12/2021	1314	160	6,400	20	20			Circling	
37	Non-breeding 2021-22	3	16/12/2021	1345	160	4,800	45	45			Circling	
38	Non-breeding 2021-22	3	16/12/2021	1352	72	2,880	25	25			Commuting	
39	Non-breeding 2021-22	3	16/12/2021	1422	80	2,400	20	20			Circling	
40	Non-breeding 2021-22	3	21/12/2021	0946	82	4,920	35	0-35			Circling	
41	Non-breeding 2021-22	3	21/12/2021	0947	82	0	0	0			Landed	
42	Non-breeding 2021-22	3	21/12/2021	1033	36	360	20	20			Circling	
43	Non-breeding 2021-22	3	21/12/2021	1041	96	2,880	25	20-25			Circling	
44	Non-breeding 2021-22	3	21/12/2021	1042	96	2,880	20	0-20			Circling	
45	Non-breeding 2021-22	3	21/12/2021	1042	96	960	0	0			Landed	Flock landing over c. 10 secs
46	Non-breeding 2021-22	3	19/01/2022	0852	30	900	25	25			Circling	
47	Non-breeding 2021-22	3	19/01/2022	0945	90	2,700	30	30			Flying	
48	Non-breeding 2021-22	3	19/01/2022	0945	20	200	20	20			Flying	
49	Non-breeding 2021-22	3	19/01/2022	0954	60	10,800	50	50			Circling	
50	Non-breeding 2021-22	3	19/01/2022	1026	120	3,600	30	30			Flying	
51	Non-breeding 2021-22	3	19/01/2022	1027	120	0	30	0-30			Landed	
52	Non-breeding 2021-22	3	23/01/2022	0849	20	600	30	30			Commuting	
53	Non-breeding 2021-22	3	23/01/2022	0932	4	80	15	15			Flying	
54	Non-breeding 2021-22	3	23/01/2022	0942	3	60	15	15			Flying	
55	Non-breeding 2021-22	4	24/10/2021	1502	14	840	35	35			Commuting	
56	Non-breeding 2021-22	4	24/10/2021	1654	46	2,760	30	30			Circling	46 L. and 3 GP Associated
57	Non-breeding 2021-22	4	24/10/2021	1712	38	2,280	40	40			Commuting	
58	Non-breeding 2021-22	4	24/10/2021	1725	22	660	20	20			Commuting	
59	Non-breeding 2021-22	4	24/10/2021	1728	44	4,400	15	15-30			Commuting	
60	Non-breeding 2021-22	4	24/10/2021	1729	44	1,100	30	30			Commuting	
61	Non-breeding 2021-22	4	25/10/2021	1028	78	7,020	25	25			Commuting	
62	Non-breeding 2021-22	4	12/11/2021	0949	146	2,190	10	10-15			Circling	

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
63	Non-breeding 2021-22	4	12/11/2021	0950	146	2,190	15	0-15			Circling	
64	Non-breeding 2021-22	4	12/11/2021	0951	146	0	0	0			Landed	
65	Non-breeding 2021-22	4	13/11/2021	1235	40	1,600	15	15			Circling	
66	Non-breeding 2021-22	4	02/12/2021	1032	32	160	10	10			Flying	Up and back down
67	Non-breeding 2021-22	4	17/12/2021	1432	67	2,010	20	20			Circling	
68	Non-breeding 2021-22	4	17/12/2021	1452	30	1,200	35	35			Commuting	
69	Non-breeding 2021-22	4	20/12/2021	1312	86	5,160	25	25			Circling	
70	Non-breeding 2021-22	4	20/12/2021	1436	32	320	10	10			Flying	Up and back down
71	Non-breeding 2021-22	4	09/01/2022	1320	54	1,080	20	20			Circling	
72	Non-breeding 2021-22	4	19/01/2022	1206	38	1,520	35	35			Commuting	
73	Non-breeding 2021-22	4	19/01/2022	1355	120	14,400	50	50			Circling	
74	Non-breeding 2021-22	4	24/02/2022	1314	46	1,380	25	25			Circling	
75	Breeding 2022	2	13/04/2022	1130	1	45	15	6-15			Displaying	
76	Breeding 2022	2	13/04/2022	1220	2	120	20	6-20			Displaying	
77	Breeding 2022	2	13/05/2022	1025	1	10	5	2-6			Flying	Low over breeding area
78	Breeding 2022	2	13/05/2022	1105	2	30	5	5			Mobbing	Territorial breeding behaviour, mobbing HC
79	Breeding 2022	2	13/05/2022	1540	1	20	5	5			Alarm call	Aggressive towards buzzard
80	Breeding 2022	3	12/05/2022	1116	2	0	0	0			Breeding/territorial	Male copulation with female, outside 500m buffer
81	Breeding 2022	4	12/04/2022	1617	2	320	20	6-20			Displaying	Brief display
82	Breeding 2022	4	12/04/2022	1625	2	60	25	6-25			Displaying	calling
83	Breeding 2022	4	12/04/2022	1640	1	20	15	6-15			Displaying	
84	Breeding 2022	4	12/04/2022	1705	2	60	10	5-10			Displaying	
85	Breeding 2022	4	12/04/2022	1735	5	300	25	6-25			Displaying	
86	Breeding 2022	4	12/04/2022	1745	1	20	5	5			Displaying	Landed
87	Breeding 2022	4	12/04/2022	1845	2	200	20	6-20			Displaying	Landed, breeding attempt in this area.
88	Breeding 2022	4	12/04/2022	1235	5	600	15	6-15			Displaying	Cultivated land - breeding probable
89	Breeding 2022	4	12/04/2022	1250	5	300	15	6-15			Displaying	3-4 pairs
90	Breeding 2022	4	12/04/2022	1251	2	400	15	6-15			Displaying	Mobbing predators/calling/displaying
91	Breeding 2022	4	12/04/2022	1321	2	80	5	5			Alarm call	At predator
92	Breeding 2022	4	12/04/2022	1340	4	560	15	6-15			Displaying	
93	Breeding 2022	4	12/04/2022	1344	4	760	15	6-15			Displaying	calling
94	Breeding 2022	4	12/04/2022	1410	10	800	15	6-15			Displaying	Up to 5 pairs present
95	Breeding 2022	4	12/04/2022	1420	7	840	15	6-15			Alarm call	Mobbing hc/displaying/alarm
96	Breeding 2022	4	12/04/2022	1436	2	120	15	6-15			Alarm call	Displaying/ alarm

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
97	Breeding 2022	4	12/04/2022	1452	2	120	25	6-25			Alarm call	Displaying/ alarm
98	Breeding 2022	4	06/05/2022	1045	2	90	5	1-6	M		Displaying	Brief display, went put of view
99	Breeding 2022	4	06/05/2022	1328	1	30	10	1-10	M		Landed	Flying around field
100	Breeding 2022	4	06/05/2022	1335	2	180	20	1-20			circling	Landed on cultivated field
101	Breeding 2022	4	06/05/2022	1450	1	80	20	1-20			circling	Landed on cultivated field
102	Non-breeding 2022-23	1	24/10/2022	1619	1	6	12	10-15			Present	
103	Non-breeding 2022-23	1	27/11/2022	1533	28	1,400	40	30-50			Flying	
104	Non-breeding 2022-23	2	28/11/2022	1125	25	500	50	40-60			Flying	Mixed flock of GP and L, flying along river flood plain
105	Non-breeding 2022-23	2	28/11/2022	1127	7	350	60	50-70			Flying	Mixed flock
106	Non-breeding 2022-23	2	28/11/2022	1156	80	2,400	20	15-25			Flying	Mixed flock took flight and looped around, returning to roughly same spot
107	Non-breeding 2022-23	2	28/11/2022	1320	40	1,200	20	10-25			Flying	Low flying flock along floods
108	Non-breeding 2022-23	2	28/11/2022	1332	80	7,200	25	20-40			Flying	
109	Non-breeding 2022-23	2	28/11/2022	1407	60	5,400	80	70-100			Circling	Circling floodwater
110	Non-breeding 2022-23	2	15/01/2023	1341	1	12	40	40-50			Commuting	Commute Flight
111	Non-breeding 2022-23	2	06/02/2023	1532	6	9	40	30-40			Commuting	Commute
112	Non-breeding 2022-23	2	06/03/2023	0938	3	150	150	120-150			Commuting	
113	Non-breeding 2022-23	3	29/11/2022	1210	200	120,000	80	80-120			Flying	Flock flew SE along river valley
114	Non-breeding 2022-23	3	29/11/2022	1231	30	3,600	120	100-150			Flying	Flocked headed NW, split from 6 continued W
115	Non-breeding 2022-23	3	29/11/2022	1227	90	43,200	120	100-150			Flying	Flocked headed NW, split from 5 looped SE, headed NW
116	Non-breeding 2022-23	3	29/11/2022	1305	40	3,600	150	120-180			Flying	Headed SE along river valley
117	Non-breeding 2022-23	3	29/11/2022	1357	35	7,000	60	50-80			Flying	
118	Non-breeding 2022-23	3	29/11/2022	1609	120	57,600	75	60-80			Flying	
119	Non-breeding 2022-23	3	29/12/2022	1320	62	5,890	40	40-50			Commuting	Slow commuting flight through area
120	Non-breeding 2022-23	4	30/11/2022	1034	50	1,150	15	15				
121	Non-breeding 2022-23	4	30/11/2022	1103	130	39,000	20	20-40				
122	Non-breeding 2022-23	4	30/11/2022	1143	7	245	15	15				
123	Non-breeding 2022-23	4	30/11/2022	1144	47	3,525	25	20-40				
124	Non-breeding 2022-23	4	30/11/2022	1230	18	1,170	30	20-40				
125	Non-breeding 2022-23	4	30/11/2022	1241	15	600	15	10-20				
126	Non-breeding 2022-23	4	30/11/2022	1242	110	8,800	30	40-60				
127	Non-breeding 2022-23	4	30/11/2022	1320	60	14,400	240	3-10				
128	Non-breeding 2022-23	4	30/11/2022	1325	20	800	40	35-60				
129	Non-breeding 2022-23	4	30/11/2022	1319	50	2,000	40	30-60				

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
130	Non-breeding 2022-23	4	30/11/2022	1326	8	360	30	20-40				
131	Non-breeding 2022-23	4	30/11/2022	1326	120	18,000	110	100-120				
132	Non-breeding 2022-23	4	30/11/2022	1403	150	36,000	70	40-120			Circling	Circling area A
133	Non-breeding 2022-23	4	30/11/2022	1407	15	600	90	80-120			Flying	Flying south along river
134	Non-breeding 2022-23	4	30/11/2022	1420	95	14,250	75	0-75			Circling	Circling area A
135	Non-breeding 2022-23	4	30/11/2022	1428	60	5,400	80	60-90			Circling	Circling area A
136	Non-breeding 2022-23	4	30/11/2022	1429	5	250	90	80-100			Flying	Flying south along flood plain
137	Non-breeding 2022-23	4	30/11/2022	1430	20	1,400	50	40-60			Flying	Flying south to west of river
138	Non-breeding 2022-23	4	30/11/2022	1446	40	2,000	90	80-100			Flying	Flying south along river
139	Non-breeding 2022-23	4	30/11/2022	1447	30	3,600	50	30-60			Circling	Circling area A
140	Non-breeding 2022-23	4	30/11/2022	1542	90	21,600	60	50-70			Circling	Circling area A
141	Non-breeding 2022-23	4	29/12/2022	0958	80	19,200	50	50-60			Circling	Circling flight, settling back down on flooded field
142	Non-breeding 2022-23	4	29/12/2022	1048	120	8,400	30	30-40			Flying	Flying, circling wit DN, dropping back down on site
143	Non-breeding 2022-23	4	22/01/2023	1116	40	320	40	0-40			Flying	Disturbed, took flight and eventually settled again
144	Non-breeding 2022-23	4	22/01/2023	1426	45	2,250	90	50-80			Circling	Circling wetland, likely disturbed
145	Non-breeding 2022-23	4	19/02/2023	1015	60	960	50	0-50			Flying	Disturbed, lifted from ground
145	Non-breeding 2022-23	4	19/02/2023	1015	60	960	50	0-50			Flying	Disturbed, lifted from ground
147	Non-breeding 2022-23	4	19/02/2023	1121	55	660	50	0-50			Flying	Disturbed, lifted from ground
148	Non-breeding 2022-23	4	19/02/2023	1305	40	800	50	0-50			Flying	Disturbed, lifted from ground
149	Non-breeding 2022-23	4	19/02/2023	1321	60	720	50	0-50			Flying	Disturbed, lifted from ground
150	Non-breeding 2022-23	4	06/03/2023	1408	2	1,090	25	25-30			Flying	Descending on to GS4
151	Non-breeding 2022-23	4	26/03/2023	1758	8	96	40	0-40			Flying	Disturbed, flew and resettled
152	Breeding 2023	2	06/03/2023	1410	3	945	100	10-200			Displaying	Displaying over fields then left area
153	Breeding 2023	2	06/03/2023	1440	1	120	50	40-60			Commuting	Towards display area
154	Breeding 2023	2	06/03/2023	1440	19	1,710	100	90-110			Commuting	Towards display area
155	Breeding 2023	2	06/03/2023	1449	2	240	100	50-150			Displaying	Tumbling/diving/calling
156	Breeding 2023	2	06/03/2023	1541	3	270	25	20-30			Displaying	Tumbling/diving/calling
157	Breeding 2023	2	25/03/2023	1420	3	24	60	50-60			Commuting	
158	Breeding 2023	3	25/03/2023	1629	1	12	70	60-70			Commuting	Commute Flight
162	Breeding 2023	4	29/04/2023	1716	1	15	8	1-15			Flying	
163	Breeding 2023	4	29/04/2023	1726	2	0	0	0			On ground	
164	Breeding 2023	4	30/04/2023	0842	3	135	13	1-25			Displaying	
165	Breeding 2023	4	30/04/2023	0910	2	60	13	1-25			Displaying	
166	Breeding 2023	4	30/04/2023	0925	2	120	15	1-30			Displaying	

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
167	Breeding 2023	4	30/04/2023	0938	4	196	38	30-45			Displaying	
168	Breeding 2023	4	30/04/2023	1001	4	120	25	0-50			Displaying	
169	Breeding 2023	2	29/04/2023	1059	3	60	95	80-110			Displaying	
170	Breeding 2023	2	29/04/2023	1116	3	138	100	80-120			Circling	
172	Breeding 2023	3	22/04/2023	1509	1	27	20	10-30			Flying	
173	Breeding 2023	3	22/04/2023	1513	2	30	60	10-80			Mobbing	
159	Breeding 2023	4	16/06/2023	0838	1	10	15	15			Mobbing	Mobbing two HC
160	Breeding 2023	4	16/06/2023	0929	6	360	30	30-40			Circling	
161	Breeding 2023	4	16/06/2023	0937	4	360	50	50			Flying	Different birds to flightline 17 all four birds in heavy moult
171	Breeding 2023	1	23/04/2023	1029	1	45	25	20-30			Displaying	

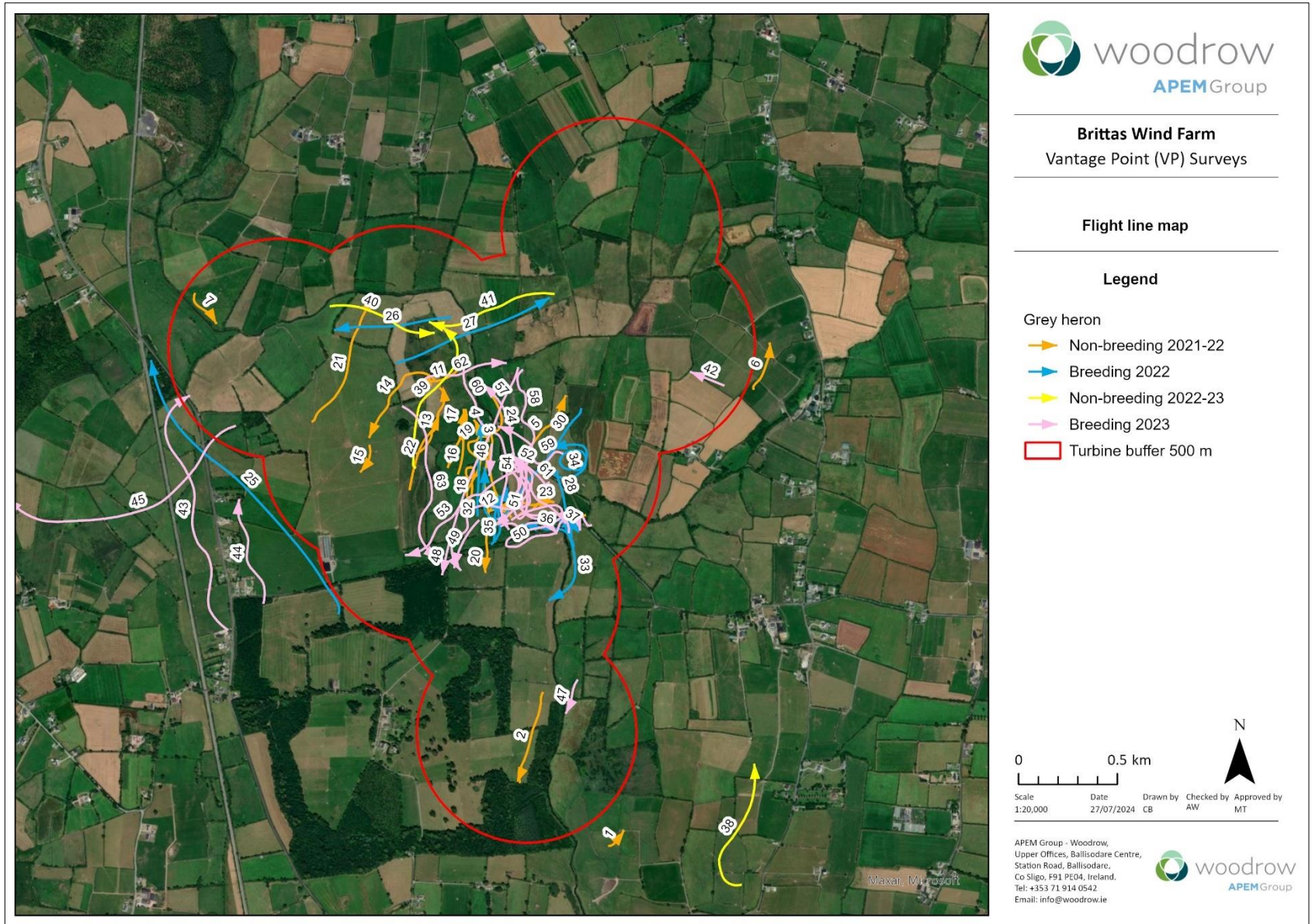


Figure 7E.14: Grey heron observations recorded during VP watches

Table 7E.9: Grey heron data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	11/11/2021	1444	1	5	10	10			Commuting	
2	Non-breeding 2021-22	1	20/01/2022	1510	1	70	30	30			Commuting	
3	Non-breeding 2021-22	2	22/01/2022	1444	2	240	30	30			Commuting	
4	Non-breeding 2021-22	2	22/01/2022	1541	1	30	25	25			Commuting	
5	Non-breeding 2021-22	2	08/02/2022	1406	1	30	20	20		Ad	Flying	
6	Non-breeding 2021-22	2	26/02/2022	1658	2	80	25	25		Ad	Commuting	
7	Non-breeding 2021-22	3	24/02/2022	1644	1	30	15	15			Flying	
8	Non-breeding 2021-22	4	24/10/2021	1500	3	30	3	3-0			Flying	
9	Non-breeding 2021-22	4	24/10/2021	1501	3	0	0	0			Landed	
10	Non-breeding 2021-22	4	25/10/2021	0830	1	10	5	5		Ad	Commuting	
11	Non-breeding 2021-22	4	12/11/2021	0819	1	10	5	5			Flying	
12	Non-breeding 2021-22	4	12/11/2021	0844	1	30	5	5			Flying	
13	Non-breeding 2021-22	4	13/11/2021	1135	1	20	15	15-5			Commuting	Coming into land saw hunters and away
14	Non-breeding 2021-22	4	13/11/2021	1136	1	10	5	5-20			Commuting	
15	Non-breeding 2021-22	4	13/11/2021	1136	1	20	20	20			Commuting	
16	Non-breeding 2021-22	4	13/11/2021	1259	1	15	3	3-0			Flying	
17	Non-breeding 2021-22	4	13/11/2021	1300	1	0	0	0			Landed	
18	Non-breeding 2021-22	4	20/12/2021	1243	1	30	15	15-0			Flying	
19	Non-breeding 2021-22	4	20/12/2021	1244	1	0	0	0			Landed	
20	Non-breeding 2021-22	4	09/01/2022	1244	1	30	25	25		Ad	Commuting	
21	Non-breeding 2021-22	4	09/01/2022	1458	2	80	15	15			Flying	
22	Non-breeding 2021-22	4	19/01/2022	1209	1	20	15	15			Flying	
23	Non-breeding 2021-22	4	26/02/2022	810	1	10	5	5-0		Ad	Flying	
24	Non-breeding 2021-22	4	07/03/2022	1255	1	15	5	5		Ad	Commuting	Mobbed by HC
25	Breeding 2022	3	12/05/2022	1115	1	90	10	10			Commuting	
26	Breeding 2022	4	12/04/2022	1645	1	60	30	20-30			Commuting	
27	Breeding 2022	4	12/04/2022	1659	1	30	80	70-80			Commuting	
28	Breeding 2022	4	12/04/2022	1751	1	20	10	10			Commuting	
29	Breeding 2022	4	12/04/2022	1253	1	70	5	5-5			Commuting	landed
30	Breeding 2022	4	12/04/2022	1332	2	640	150	5-150			soaring	males displaying

Map ID	Season	VP No	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Breeding 2022	4	06/05/2022	1028	1	15	5	5			Flying	
32	Breeding 2022	4	06/05/2022	1345	2	40	15	5-15			Commuting	together
33	Breeding 2022	4	02/06/2022	1248	1	45	15	10-20		Ad	Flying	Travelling Flight
34	Breeding 2022	4	03/06/2022	948	1	28	10	10-20		Ad	Flying	Descending along river bank.
35	Breeding 2022	4	02/07/2022	1218	1	35	15	10-20		Ad	Flying	
36	Breeding 2022	4	16/07/2022	0815	1	34	50	20-30		Ad	Flying	
37	Breeding 2022	4	22/08/2022	1320	1	20	20	15-20		Ad	Commuting	
38	Non-breeding 2022-23	1	25/01/2023	1353	1	36	60	0-60			Commuting	Flying NE
39	Non-breeding 2022-23	4	30/11/2022	1120	1	12	5					
40	Non-breeding 2022-23	4	30/11/2022	1121	2	50	8					
41	Non-breeding 2022-23	4	30/11/2022	1140	1	30	5	0-12				Missed from earlier
42	Breeding 2023	2	27/06/2023	1108	1	21	15	15-0			Flying	
43	Breeding 2023	3	28/06/2023	1101	1	19	30	30		Ad	Flying	
44	Breeding 2023	3	28/06/2023	1216	1	54	30	30		Ad	Flying	
45	Breeding 2023	3	16/08/2023	1541	1	15	40	40-		Ad	Flying	
46	Breeding 2023	4	16/06/2023	0750	1	10	5	5			Flying	
47	Breeding 2023	4	16/06/2023	0845	1	5	25	25		Ad	Flying	
48	Breeding 2023	4	26/06/2023	1739	1	90	50	50-0			Flying/Landed	
49	Breeding 2023	4	26/06/2023	1927	1	20	3	3			Flying	
50	Breeding 2023	4	27/06/2023	1522	1	54	4	0-4		Ad	Flying	
51	Breeding 2023	4	27/06/2023	1622	1	42	10	30-2		Ad	Flying	Over river
52	Breeding 2023	4	27/06/2023	1650	1	36	5	36-0		Ad	Flying	Over river
53	Breeding 2023	4	27/06/2023	1718	1	40	5	5-		Ad	Flying	
54	Breeding 2023	4	28/06/2023	0738	1	71	5			Ad	Flying	To river
55	Breeding 2023	4	28/06/2023	0854	1	25	5			Ad	Flying	To river
56	Breeding 2023	4	28/06/2023	0955	1	16	5			Ad	Flying	
57	Breeding 2023	4	19/07/2023	1306	1	35	10	5-10		Ad	Flying	
58	Breeding 2023	4	19/07/2023	1451	1	54	20	20-		Ad	Flying	
59	Breeding 2023	4	10/08/2023	0947	1	28	15	15-5		Ad	Flying	
60	Breeding 2023	4	10/08/2023	1320	2	162	2	5-0		Juv	Flying	
61	Breeding 2023	4	28/08/2023	1321	1	6	20	20-		Ad	Flying	
62	Breeding 2023	4	20/09/2023	1620	1	24	10	0-10		Ad	Flying	
63	Breeding 2023	4	20/09/2023	1641	1	29	15	0-15		Juv	Flying	

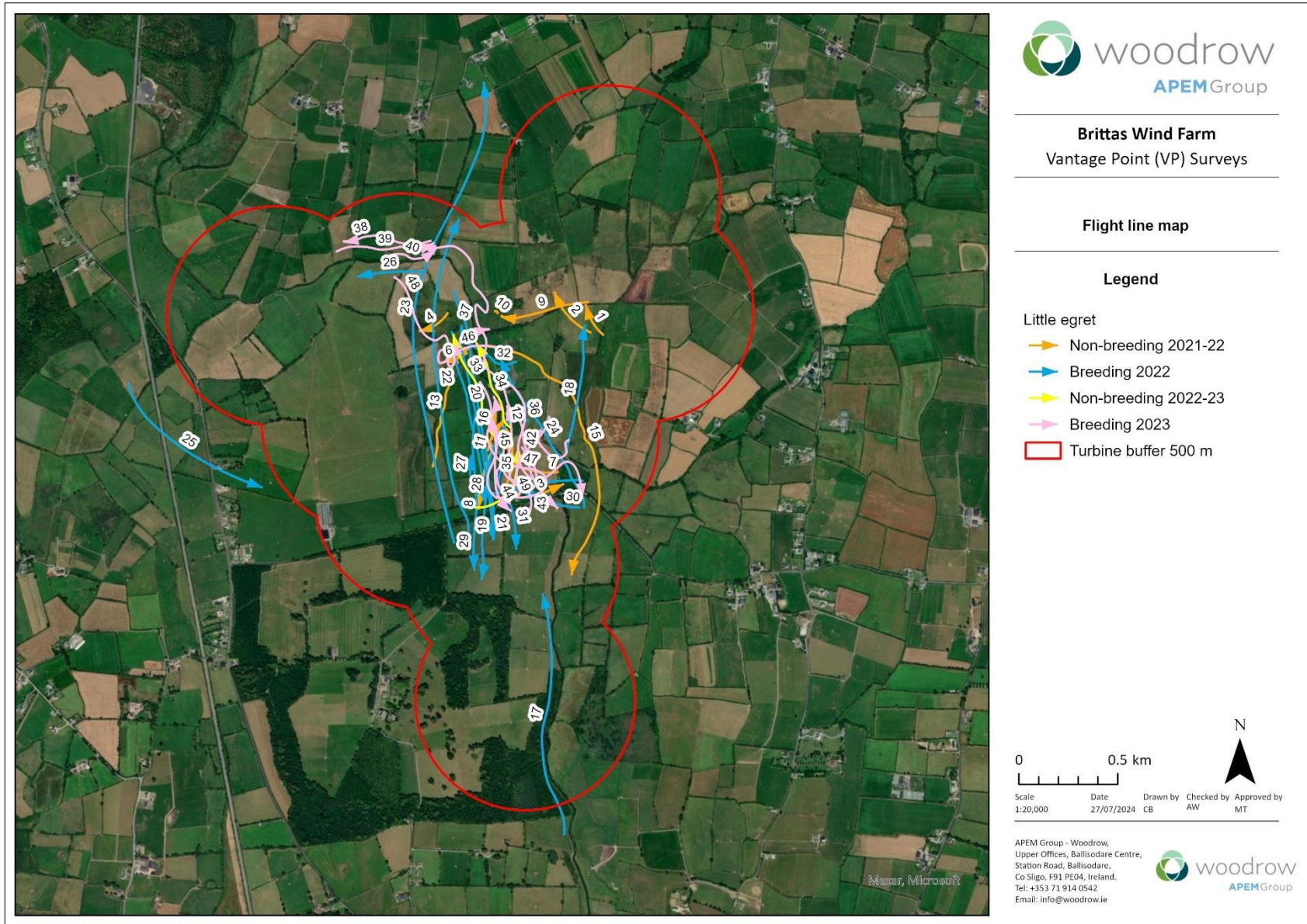


Figure 7E.15: Little egret observations recorded during VP watches

Table 7E.10: Little egret data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	2	12/11/2021	1314	1	30	10	10			Commuting	
2	Non-breeding 2021-22	2	18/01/2022	1442	1	60	30	30			Commuting	
3	Non-breeding 2021-22	4	12/11/2021	0807	1	10	5	5			Flying	
4	Non-breeding 2021-22	4	12/11/2021	0819	1	10	5	5			Flying	
5	Non-breeding 2021-22	4	12/11/2021	0931	1	40	5	5		A	Commuting	
6	Non-breeding 2021-22	4	12/11/2021	0936	1	10	3	3			Flying	
7	Non-breeding 2021-22	4	13/11/2021	1203	1	10	15	15-0			Commuting	Landed
8	Non-breeding 2021-22	4	13/11/2021	1220	1	20	10	10			Commuting	Moved on due to shotgun fire.
9	Non-breeding 2021-22	4	02/12/2021	1033	1	30	15	15-0			Flying	
10	Non-breeding 2021-22	4	02/12/2021	1034	1	0	0	0			Landed	Landed on river
11	Non-breeding 2021-22	4	02/12/2021	1045	1	5	3	3-0			Flying	
12	Non-breeding 2021-22	4	02/12/2021	1045	1	0	0	0		Ad	Landed	Landed on river
13	Non-breeding 2021-22	4	24/02/2022	1332	1	30	5	5-0			Flying	
14	Non-breeding 2021-22	4	24/02/2022	1333	1	0	0	0			Feeding	
15	Non-breeding 2021-22	4	24/02/2022	1346	1	60	10	10		Ad	Flying	Took flight down river
16	Non-breeding 2021-22	4	26/02/2022	0927	1	10	5	5		Ad	Flying	
17	Breeding 2022	1	11/04/2022	1219	1	80	15	5-15			Commuting	low across site
18	Breeding 2022	2	13/04/2022	1126	1	60	15	15			Commuting	
19	Breeding 2022	2	13/05/2022	1125	1	90	15	5-15			Commuting	commuting over river
20	Breeding 2022	2	13/05/2022	1216	1	80	15	15			Commuting	commuting over river
21	Breeding 2022	2	13/05/2022	1510	1	150	20	10-20			Commuting	commuting along river
22	Breeding 2022	2	13/05/2022	1516	1	230	40	15-40			Commuting	commuting along river
23	Breeding 2022	2	13/05/2022	1530	2	280	20	20			Commuting	commuting along river
24	Breeding 2022	2	06/07/2022	1608	1	130	10	2-10			Commuting	over river, went behind hedgerow
25	Breeding 2022	3	25/06/2022	1447	1	15	40	30-50			Flying	
26	Breeding 2022	4	12/04/2022	1646	1	90	30	30			Commuting	
27	Breeding 2022	4	12/04/2022	1345	1	40	20	1-20			Flying	
28	Breeding 2022	4	06/05/2022	1120	1	70	20	1-20			Commuting	travelling slowly over river
29	Breeding 2022	4	06/05/2022	1140	1	30	20	25			Commuting	
30	Breeding 2022	4	02/06/2022	1225	1	35	20	20-25		Ad	Flying	Travelling Flight

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Breeding 2022	4	02/06/2022	1318	1	55	20	20-25		Ad	Flying	Travelling Flight
32	Breeding 2022	4	04/07/2022	1306	1	52	20	20-30		Ad	Flying	
33	Non-breeding 2022-23	2	25/01/2023	0949	2	112	30	0-30			Flying	Flying and landing into improved grassland
34	Non-breeding 2022-23	2	25/01/2023	1011	2	94	10	0-10			Flying	Flying and landing into improved grassland
35	Non-breeding 2022-23	4	09/12/2022	0916	1	28	20	20-25		Ad	Flying	Moving N along river
36	Breeding 2023	4	27/06/2023	1507	1	28	5	4-5		Ad	Flying	
37	Breeding 2023	4	19/07/2023	1127	1	131	10	0-10		Ad	Flying	
38	Breeding 2023	4	19/07/2023	1135	5	115	5	0-5-0		Ad	Flying	Startled by tractor
39	Breeding 2023	4	19/07/2023	1344	3	66	1	1-0		Ad	Flying	
40	Breeding 2023	4	19/07/2023	1630	3	51	5	5-0		Ad	Flying	
41	Breeding 2023	4	10/08/2023	0800	2	58	15	15-0		Ad	Flying	
42	Breeding 2023	4	10/08/2023	0834	1	42	10	10-0		Ad	Flying	
43	Breeding 2023	4	10/08/2023	1029	2	54	5	5-0		Ad	Flying	
44	Breeding 2023	4	28/08/2023	1240	1	24	5	5-0		Ad	Flying	
45	Breeding 2023	4	28/08/2023	1307	1	22	5	5-0		Ad	Flying	
46	Breeding 2023	4	20/09/2023	1531	1	37	5	5-0		Ad	Flying	
47	Breeding 2023	4	20/09/2023	1623	1	37	15	0-15		Ad	Flying	
48	Breeding 2023	4	20/09/2023	1741	1	87	50	50-10		Ad	Flying	Behind treeline
49	Breeding 2023	4	29/04/2023	1715	2	14	5	0-5			Flying	

Swans, geese and duck with low incidence rate

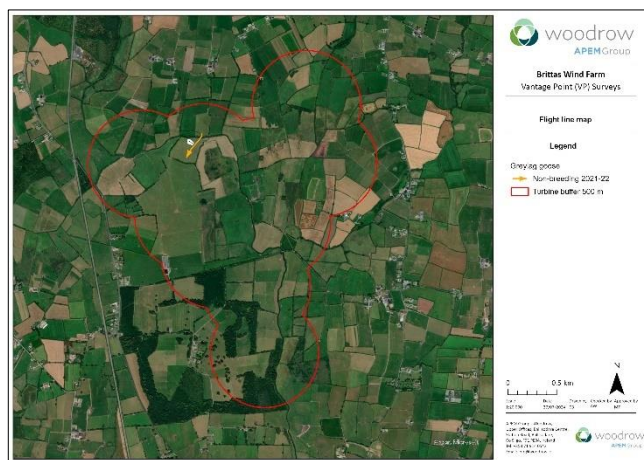


Figure 7E.16: Greylag goose observations



Figure 7E.17: Whooper swan observations

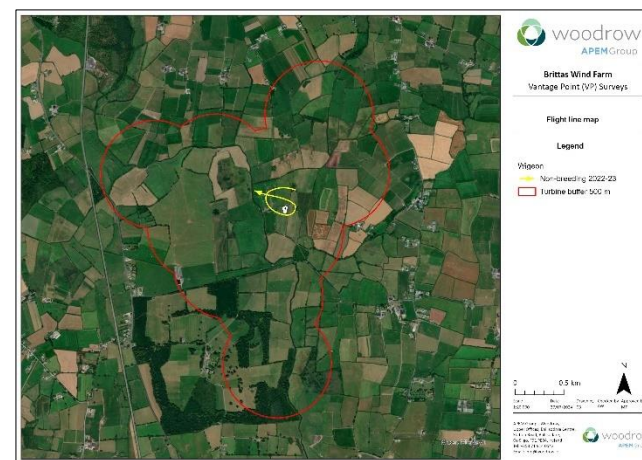


Figure 7E.18: Wigeon observations

Table 7E.11: Greylag goose data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	4	13/11/2021	1146	1	10	15	15			Commuting	

Table 7E.12: Whooper swan data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	4	07/03/2022	1130	2	0	0	0		Ad+2Yr	Feeding	On the ground grazing in GA 1 fields with MS (1130-1430)

Table 7E.13: Wigeon data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2022-23	4	29/12/2022	1024	22	2,420	40	40-50	M+F		Circling	Wide circling flight, settling back down on flooded area

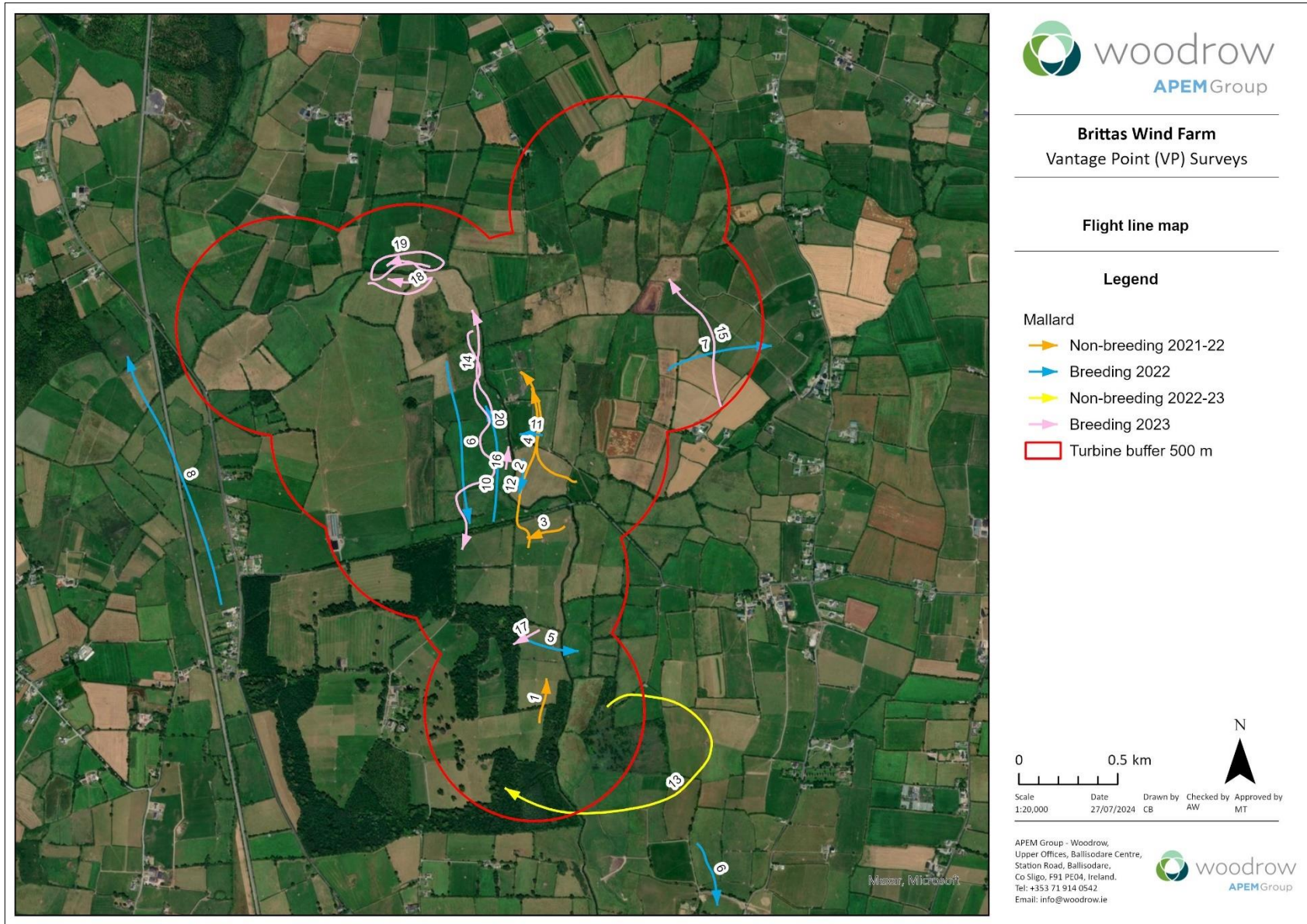


Figure 7E.19: Mallard observations recorded during VP watches

Table 7E.14: Mallard data collected during VP watches

	Aggregate seconds = flight/observation time x by the number of birds recorded
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
1	Non-breeding 2021-22	1	13/11/2021	0746	2	40	20	20			Commuting	
2	Non-breeding 2021-22	3	19/01/2022	0950	6	360	30	30			Flying	
3	Non-breeding 2021-22	4	25/10/2021	0905	2	30	10	10	F	Ad	Commuting	
4	Non-breeding 2021-22	4	12/11/2021	0918	2	80	15	15	M+F	Ad	Commuting	
5	Breeding 2022	1	11/04/2022	1330	2	30	20	20			Commuting	must have landed out of view
6	Breeding 2022	1	11/04/2022	1512	2	20	5	5			Commuting	away from site
7	Breeding 2022	2	13/05/2022	1610	2	10	5	5			Commuting	
8	Breeding 2022	3	18/04/2022	1235	1	30	10	5-10			landed	in field within 500m
9	Breeding 2022	4	12/04/2022	1655	1	20	20	15-20			Commuting	
10	Breeding 2022	4	12/04/2022	1800	1	20	5	5			Commuting	
11	Breeding 2022	4	06/05/2022	1300	1	5	5	1-5	M	A	Landed	on river/ drainage
12	Breeding 2022	4	06/05/2022	1320	1	5	5	1-5	M	A	Landed	on river
13	Non-breeding 2022-23	1	25/01/2023	1351	4	228	95	0-100			Circling	circling and travelling W
14	Breeding 2023	2	31/07/2023	1023	60	1,680	15	0-15			Flying	vis poor, possibly other species as well
15	Breeding 2023	2	09/08/2023	1109	12	648	20	20			Flying	
16	Breeding 2023	4	16/06/2023	0813	1	30	4	4	F	Ad	Flying	
17	Breeding 2023	4	16/06/2023	0842	1	5	3	3	F	Ad	Flying	
18	Breeding 2023	4	19/07/2023	1238	12	216	5	0-5	F	Ad + Juv	Flying	over flooded area
19	Breeding 2023	4	19/07/2023	1530	16	608	20	0-20		Ad + Juv	Flying	
20	Breeding 2023	4	19/07/2023	1719	3	87	15	0-15		Ad	Flying	

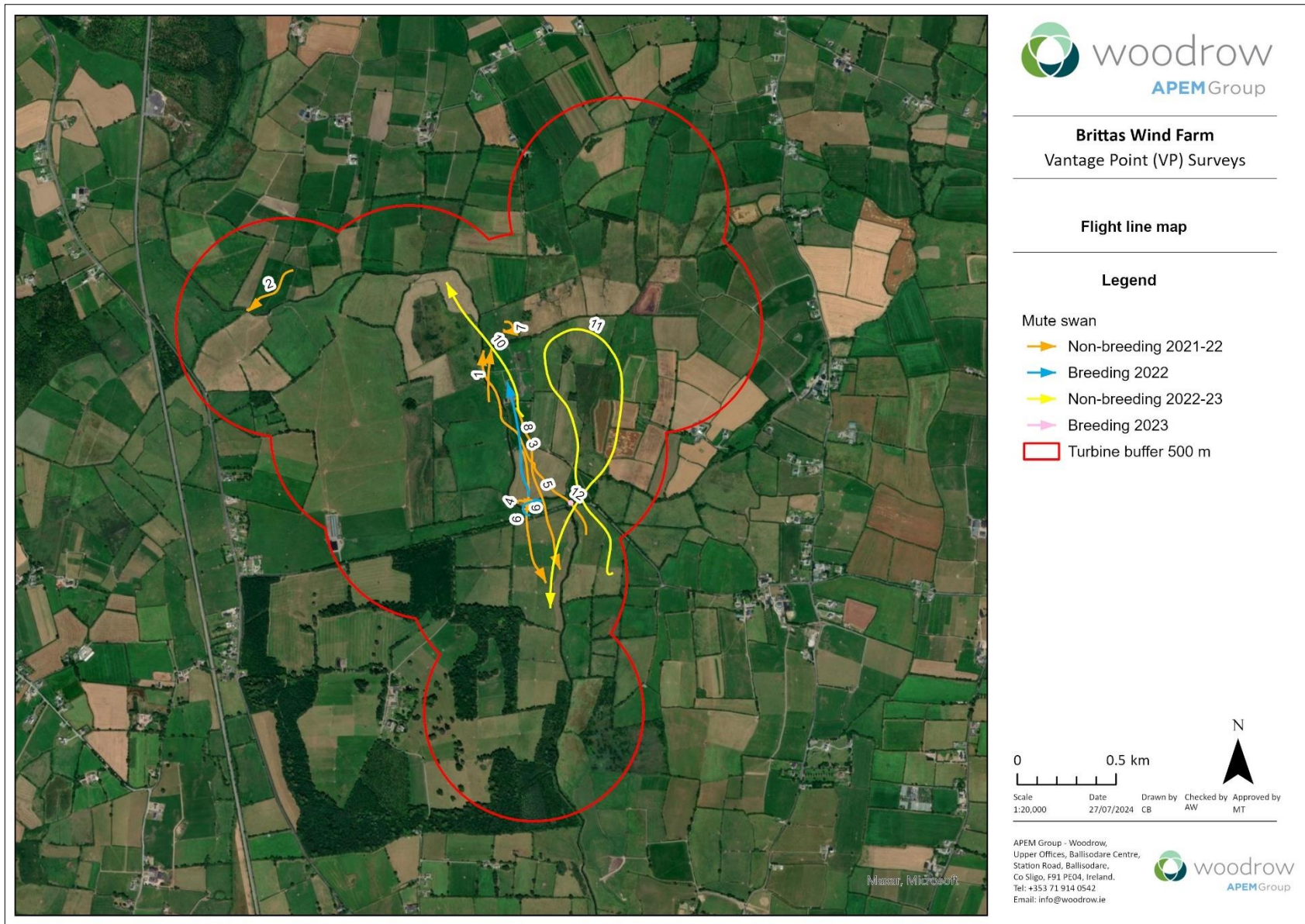


Figure 7E.20: Mute swan observations recorded during VP watches

Table 7E.15: Mute swan data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregated seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comment
1	Non-season 2021-22	2	20/12/2021	0941	1	10	10	10			Commuting	
2	Non-season 2021-22	3	24/02/2022	1601	1	10	10	10		Ad	Flying	
3	Non-season 2021-22	4	25/10/2021	0841	1	60	10	10		Ad	Commuting	
4	Non-season 2021-22	4	17/12/2021	1300	2	0	0	0			Swimming	On river male and female
5	Non-season 2021-22	4	20/12/2021	1401	2	220	10	10	M+F		Flying	Male and female heading down river
6	Non-season 2021-22	4	19/01/2022	1408	2	40	15	15			Commuting	Flying down river
7	Non-season 2021-22	4	07/03/2022	1430	2	0	0	0	M+F	Ad	Feeding	
8	Breeding 2022	2	13/05/2022	1445	2	280	10	10			Commuting	commuting along river
9	Breeding 2022	4	12/04/2022	1750	1	0	0	0			Perched	perched for 600 sec
10	Non-breeding 2022-23	2	25/01/2023	0942	2	116	15	0-20	M+F	Ad	Flying	Flying along river course
11	Non-breeding 2022-23	4	30/11/2022	1007	9	1,080	30	20-40			<Null>	
12	Breeding season 2023	4	16/06/2023	0700	2	0	0	0	M+F	Ad	Swimming	Two birds on river at the bridge

Gull species occurring at low incidence rates

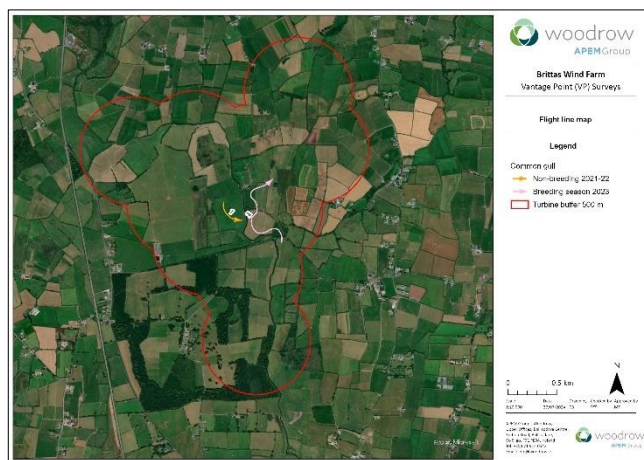


Figure 7E.21: Common gull observations

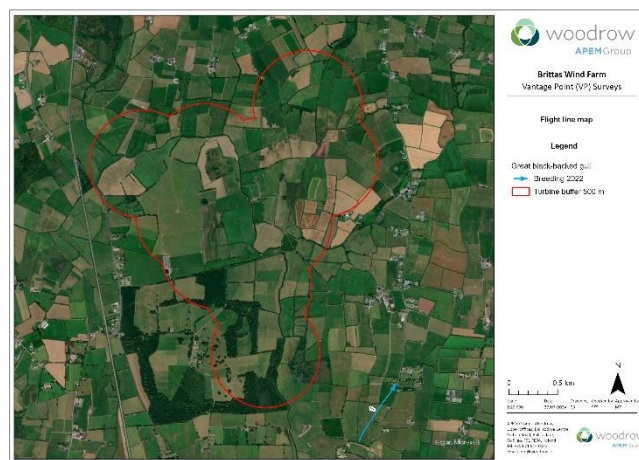


Figure 7E.22: Great black-backed gull observations



Figure 7E.23: Herring gull observations

Table 7E.16: Common gull data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	3	21/12/2021	1107	2	70	40	40			Commuting	-
2	Breeding 2023	4	19/07/2023	1539	1	43	10	10		1CY JUV	Flying	-

Table 7E.17: Great black-backed gull data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2022	1	11/04/2022	1635	2	120	20	20			Flying	Going away from site

Table 7E.18: Herring gull data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2023	2	09/08/2023	1210	1	204	60	60		2Y JUV	Flying	

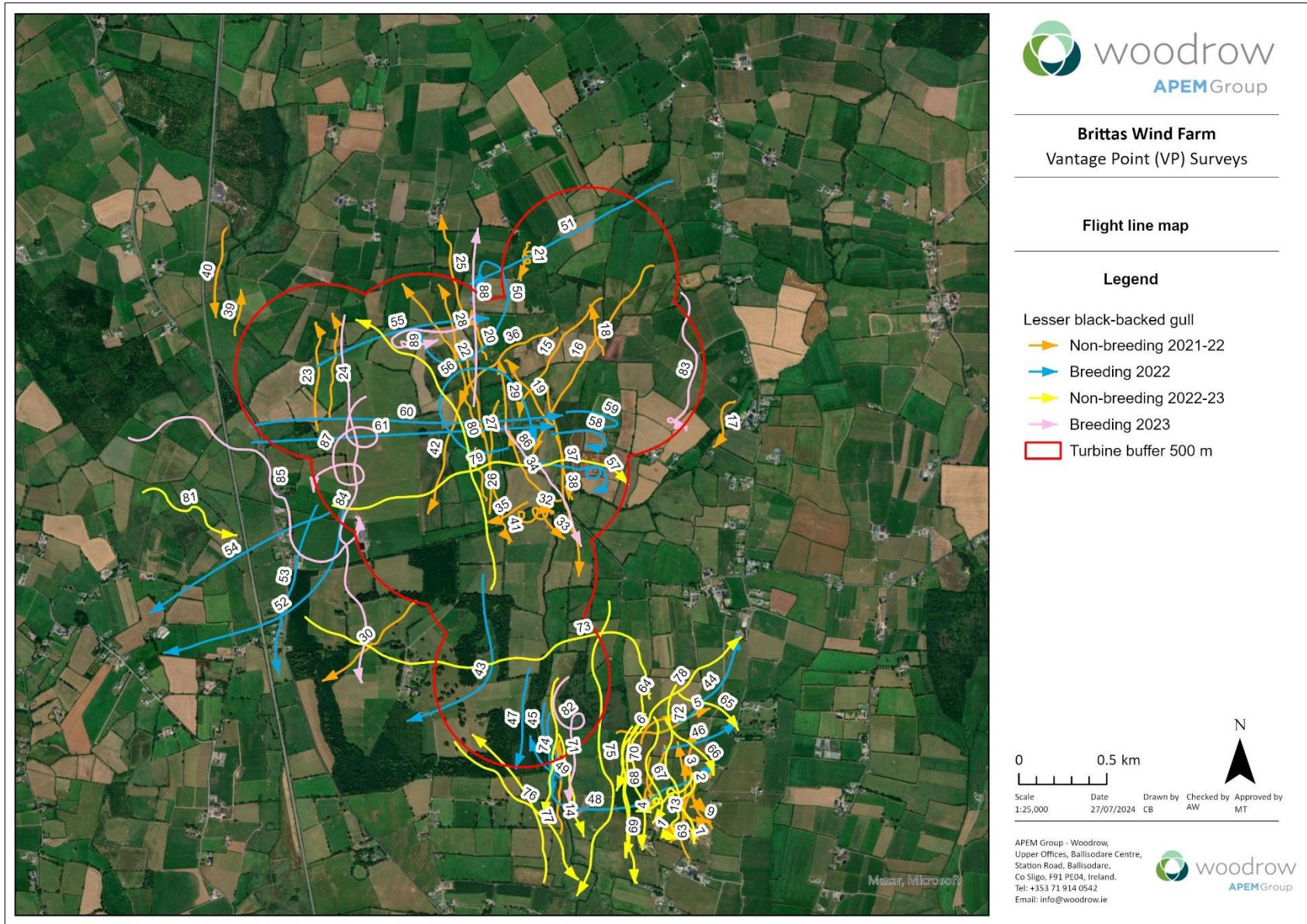


Figure 7E.24: Lesser black-backed gull observations recorded during VP watches

Table 7E.19: Lesser black-backed gull data collected during VP watches

	Aggregate seconds = flight/observation time x by the number of birds recorded
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	24/10/2021	0858	1	30	15			Ad	Commuting	
2	Non-breeding 2021-22	1	24/10/2021	0903	37	1,480	15				Commuting	
3	Non-breeding 2021-22	1	24/10/2021	0944	4	80	15			Ad	Commuting	
4	Non-breeding 2021-22	1	24/10/2021	0952	1	10	10			Ad	Commuting	
5	Non-breeding 2021-22	1	24/10/2021	1014	1	30	25			1CY	Commuting	
6	Non-breeding 2021-22	1	24/10/2021	1351	1	20	20			Ad	Commuting	
7	Non-breeding 2021-22	1	11/11/2021	1006	4	320	20			Ad	Commuting	
8	Non-breeding 2021-22	1	11/11/2021	1341	6	180	20			Ad	Commuting	
9	Non-breeding 2021-22	1	11/11/2021	1353	2	50	15			Ad	Commuting	
10	Non-breeding 2021-22	1	11/11/2021	1404	2	30	15			Ad	Commuting	
11	Non-breeding 2021-22	1	11/11/2021	1410	3	45	15			Ad	Commuting	
12	Non-breeding 2021-22	1	11/11/2021	1436	24	1,440	15			Ad	Commuting	
13	Non-breeding 2021-22	1	08/02/2022	1017	5	200	10				Commuting	
14	Non-breeding 2021-22	1	24/02/2022	0919	6	240	20			Ad	Commuting	
15	Non-breeding 2021-22	2	23/10/2021	1312	17	1,530	30				Commuting	
16	Non-breeding 2021-22	2	23/10/2021	1720	3	270	35			Ad	Commuting	
17	Non-breeding 2021-22	2	12/11/2021	1210	5	200	15				Commuting	
18	Non-breeding 2021-22	2	12/11/2021	1347	2	60	20				Commuting	
19	Non-breeding 2021-22	2	22/11/2021	1032	4	480	40			Ad	Commuting	
20	Non-breeding 2021-22	2	01/12/2021	1146	2	60	35				Commuting	
21	Non-breeding 2021-22	2	08/02/2022	1432	16	320	25				Circling	
22	Non-breeding 2021-22	2	26/02/2022	1703	14	1,260	20				Commuting	
23	Non-breeding 2021-22	2	13/03/2022	1136	6	360	35			Ad	Commuting	
24	Non-breeding 2021-22	2	13/03/2022	1142	14	840	35			Ad	Commuting	
25	Non-breeding 2021-22	2	13/03/2022	1353	6	240	25			Ad	Commuting	
26	Non-breeding 2021-22	3	26/10/2021	1326	4	80	30				Commuting	
27	Non-breeding 2021-22	3	23/01/2022	1026	6	360	25				Commuting	
28	Non-breeding 2021-22	3	24/02/2022	1525	2	20	10			Ad	Commuting	
29	Non-breeding 2021-22	3	24/02/2022	1617	4	120	15			Ad	Commuting	
30	Non-breeding 2021-22	3	26/02/2022	1235	4	200	15			Ad	Commuting	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Non-breeding 2021-22	4	24/10/2021	1521	1	10	10			Ad	Commuting	
32	Non-breeding 2021-22	4	24/10/2021	1528	1	10	10			Ad	Commuting	
33	Non-breeding 2021-22	4	24/10/2021	1736	6	360	25				Commuting	
34	Non-breeding 2021-22	4	25/10/2021	0810	2	60	15			Ad	Commuting	
35	Non-breeding 2021-22	4	25/10/2021	0915	5	100	20				Commuting	4 Adults 1 1CY
36	Non-breeding 2021-22	4	25/10/2021	0954	10	900	15			Ad	Commuting	
37	Non-breeding 2021-22	4	13/11/2021	1306	2	60	15			Ad	Commuting	
38	Non-breeding 2021-22	4	09/01/2022	1413	4	240	20			Ad	Commuting	
39	Non-breeding 2021-22	4	24/02/2022	1247	1	15	15				Commuting	
40	Non-breeding 2021-22	4	24/02/2022	1318	21	1,260	20				Commuting	
41	Non-breeding 2021-22	4	24/02/2022	1323	9	540	10			Ad	Commuting	
42	Non-breeding 2021-22	4	26/02/2022	0902	16	960	15			Ad	Commuting	
43	Breeding 2022	1	11/04/2022	1209	8	1,120	200	120-200			circling	travelled across site / soaring and circling
44	Breeding 2022	1	11/04/2022	1251	1	200	20	20			Commuting	
45	Breeding 2022	1	11/04/2022	1308	4	520	30	30			Commuting	Commuting slow
46	Breeding 2022	1	11/04/2022	1313	2	180	15	5-15			Commuting	
47	Breeding 2022	1	11/04/2022	1326	1	60	30	30			Commuting	
48	Breeding 2022	1	11/04/2022	1345	2	420	30	5-30			Commuting	travelling away from site
49	Breeding 2022	1	11/04/2022	1604	4	240	30	30			circling	circling, slow flight
50	Breeding 2022	2	13/04/2022	1132	12	2,280	30	10-30			circling	
51	Breeding 2022	2	06/07/2022	1520	2	520	70	50-70			Commuting	flight through site
52	Breeding 2022	3	12/05/2022	1135	10	2,500	30	5-30			Loafing	going away from site
53	Breeding 2022	3	12/05/2022	1526	3	480	20	20			Commuting	
54	Breeding 2022	3	12/05/2022	1650	1	90	30	30			Commuting	
55	Breeding 2022	4	12/04/2022	1725	3	570	60	50-60			circling	
56	Breeding 2022	4	22/08/2022	1838	6	840	30	10-30			Flying	landing to feed
57	Breeding 2022	4	22/08/2022	1320	8	400	50	5-50		Ad	Circling	over field
58	Breeding 2022	4	22/08/2022	1343	3	180	20	20			Landed	on fields
59	Breeding 2022	4	22/08/2022	1350	70	33,600	40	5-40			Circling	landed on fields
60	Breeding 2022	4	31/08/2022	1900	5	1,200	50	50			Commuting	through site, commuting
61	Breeding 2022	4	31/08/2022	1950	3	690	40	35-40			Commuting	commuting through site
62	Non-breeding 2022-23	1	27/10/2022	1023	7	665	40	40-50		Ad	Commuting	Flight through site see map LB1
63	Non-breeding 2022-23	1	27/10/2022	1028	4	440	40	40-50			Commuting	Across site. See map LB2
64	Non-breeding 2022-23	1	27/11/2022	1009	25	0					Feeding	Feeding on pasture
65	Non-breeding 2022-23	1	27/11/2022	1109	3	165	8	5-15		Ad	Flying	Leaving field at #1

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
66	Non-breeding 2022-23	1	27/11/2022	1110	2	60	8	8-12			Flying	
67	Non-breeding 2022-23	1	27/11/2022	1110	3	150	12	8-12			Flying	
68	Non-breeding 2022-23	1	27/11/2022	1110	6	360	10	8-12			Flying	
69	Non-breeding 2022-23	1	27/11/2022	1131	2	30	12	10-15			Flying	
70	Non-breeding 2022-23	1	27/11/2022	1133	1	20	10	10-15			Flying	
71	Non-breeding 2022-23	1	27/11/2022	1220	23	690	10	5-20			Flying	
72	Non-breeding 2022-23	1	27/11/2022	1238	4	120	20	15-25		Ad	Flying	
73	Non-breeding 2022-23	1	27/11/2022	1305	20	1,900	10	10-30			Flying	
74	Non-breeding 2022-23	1	27/11/2022	1308	5	125	20	15-25			Flying	
75	Non-breeding 2022-23	1	27/11/2022	1324	9	360	25	20-30			Flying	
76	Non-breeding 2022-23	1	27/11/2022	1323	23	575	40	30-50			Flying	
77	Non-breeding 2022-23	1	27/11/2022	1525	4	120	30	25-35			Flying	
78	Non-breeding 2022-23	1	25/01/2023	1339	2	140	40	0-40			Commuting	Travelling NE
79	Non-breeding 2022-23	2	28/11/2022	1331	1	35	40	30-50			Commuting	Transient bird flying through
80	Non-breeding 2022-23	2	28/11/2022	1408	12	1,440	90	80-100			Commuting	Flying through
81	Non-breeding 2022-23	3	29/10/2022	1027	16	2,080	30	30-40		Ad	Flying	Slow travelling flight see map LB
82	Breeding 2023	1	03/08/2023	1022	2	536	30	80-100		Ad	Soaring	Soaring/circling. Drifting S
83	Breeding 2023	2	31/07/2023	1248	1	63	50	50-0		Ad	Flying	
84	Breeding 2023	3	16/08/2023	1803	2	268	80	80-		Ad	Flying	
85	Breeding 2023	3	27/08/2023	1103	2	214	20	15-20		Ad	Flying	
86	Breeding 2023	4	16/06/2023	0737	1	180	70	70			Flying	
87	Breeding 2023	4	16/06/2023	0920	2	80	80	80			Soaring	
88	Breeding 2023	4	16/06/2023	0924	1	20	20	20			Flying	
89	Breeding 2023	4	19/07/2023	1501	2	368	30	30-0		Ad + 2cy	Flying	

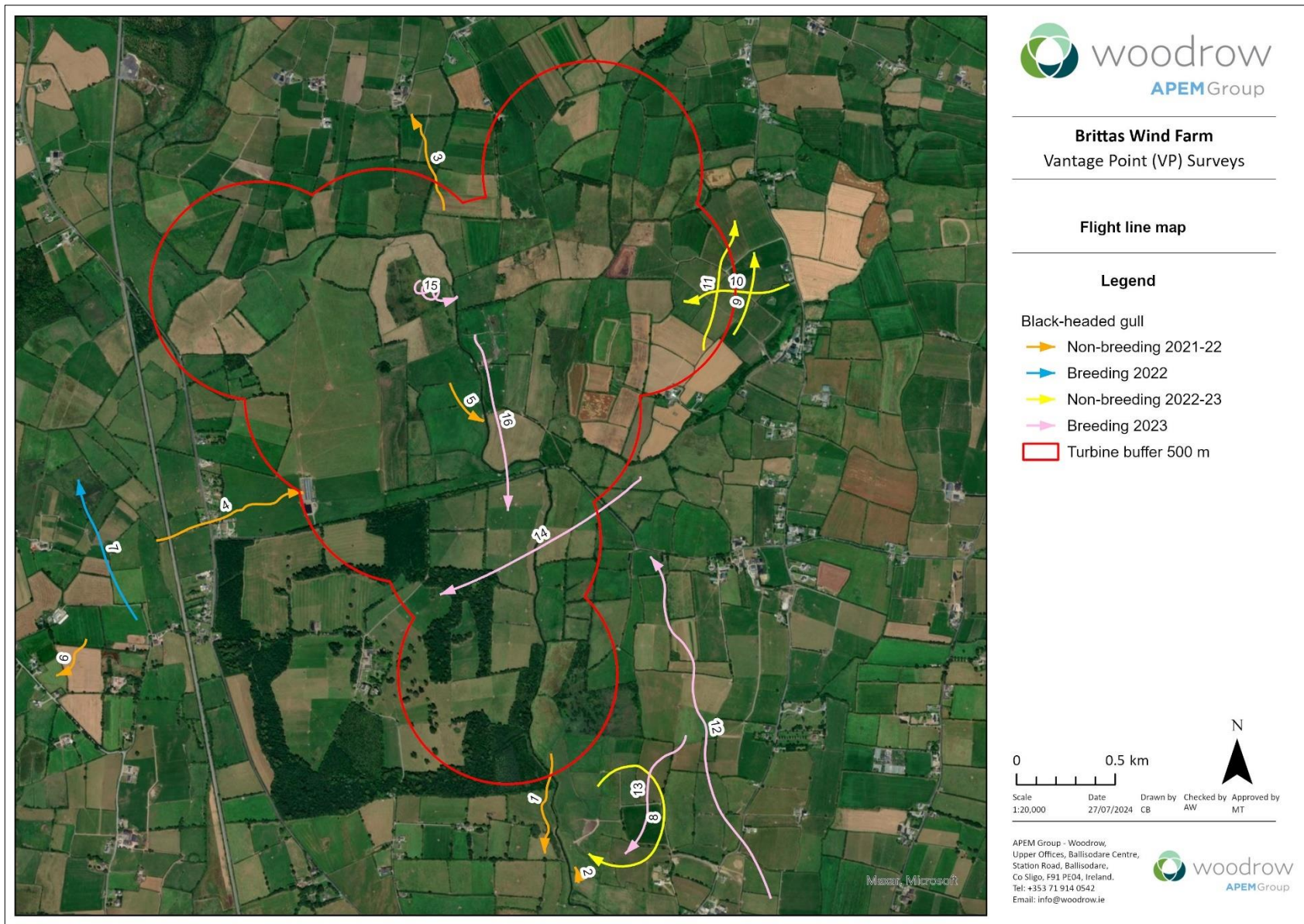


Figure 7E.25: Black-headed gull observations recorded during VP watches

Table 7E.20: Black-headed gull data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	18/01/2022	1117	17	1,190	20	20			Commuting	
2	Non-breeding 2021-22	1	20/01/2022	1345	1	5	5	5		Ad	Flying	
3	Non-breeding 2021-22	2	13/03/2022	1353	3	120	25	25		A	Commuting	
4	Non-breeding 2021-22	3	23/11/2021	1452	2	120	60	60		A	Commuting	
5	Non-breeding 2021-22	3	21/12/2021	1107	6	210	40	40			Commuting	
6	Non-breeding 2021-22	3	23/01/2022	0911	3	0	20	20			Flying	
7	Breeding 2022	3	24/07/2022	1411	1	35	20			Ad	Flying	
8	Non-breeding 2022-23	1	25/01/2023	1433	80	15,360	45	0-50			Circling	Circling and landing into improved grassland/flooded area
9	Non-breeding 2022-23	2	06/02/2023	1122	4	56	40	30-40			Commuting	Commute and calling
10	Non-breeding 2022-23	2	06/02/2023	1405	12	204	30	20-30			Commuting	Commute and calling
11	Non-breeding 2022-23	2	06/02/2023	1527	22	462	40	30-40			Commuting	Commute and calling
12	Breeding 2023	1	12/06/2023	1837	1	45	25	25		Ad	Commuting	
13	Breeding 2023	1	06/07/2023	1242	4	152	30	30-40			Flying	Moving south
14	Breeding 2023	4	16/06/2023	0818	1	30	30	30		Ad		
15	Breeding 2023	4	16/06/2023	0927	1	40	20	20		Ad	Flying	
16	Breeding 2023	4	26/06/2023	1947	2	180	30	30		Ad	Flying	

Raptor species occurring at low incidence rates

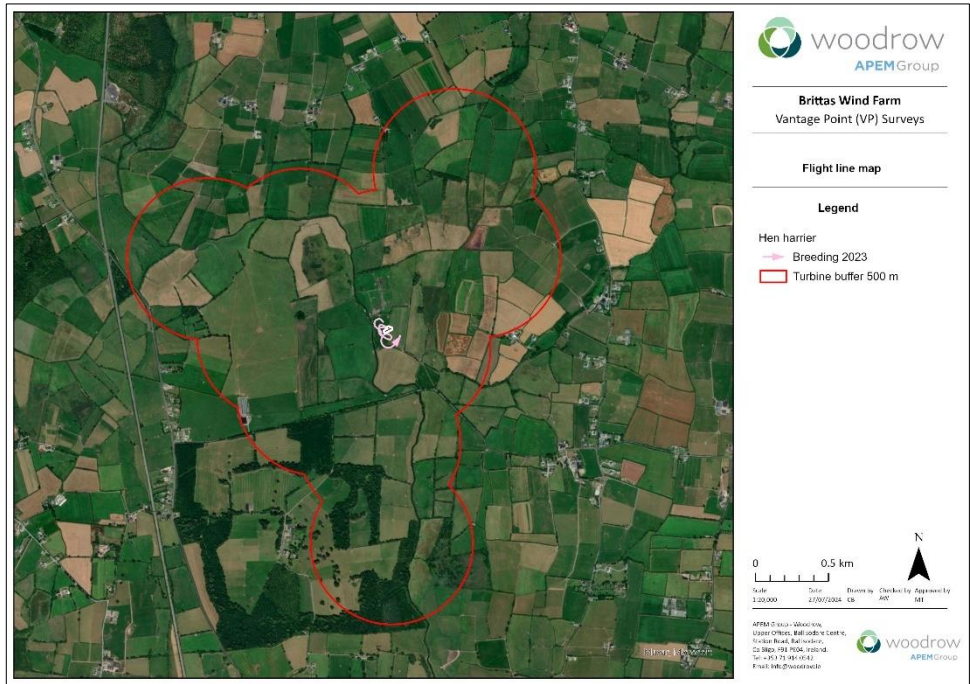


Figure 7E.26: Hen harrier observations recorded during VP watches

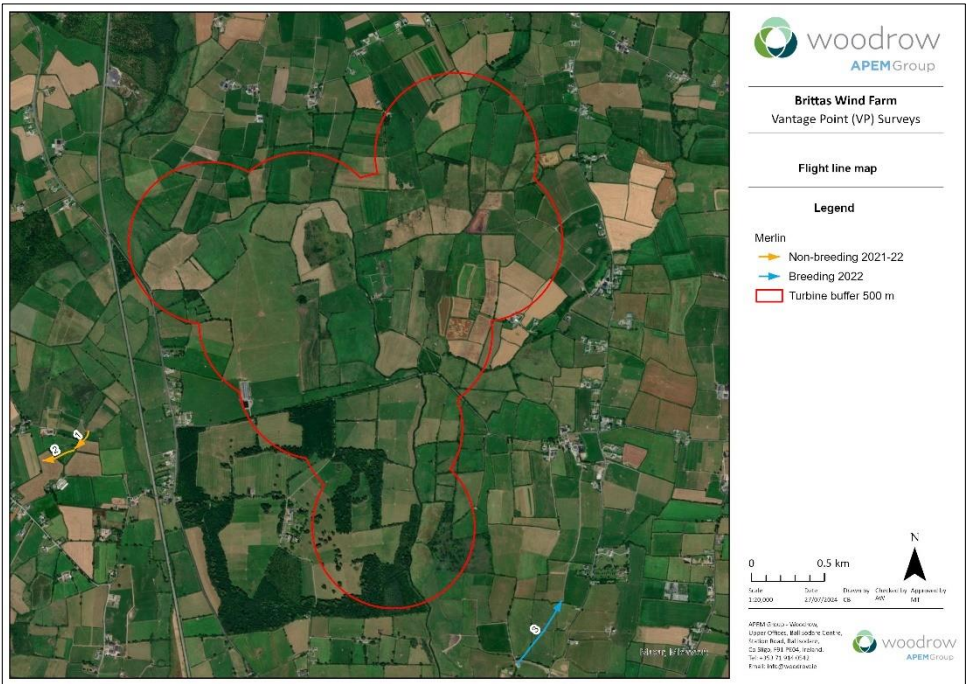


Figure 7E.27: Merlin observations recorded during VP watches

Table 7E.21: Hen harrier data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2023	4	28/08/2023	1258	1	89	4	1-4	M	A	Hunting	Quartering

Table 7E.22: Merlin data collected during VP watches

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	3	02/12/2021	1304	1	10	10		F	A	Hunting	Hunting then perched in tree.
2	Non-breeding 2021-22	3	02/12/2021	1311	1	10	5		F	A	Hunting	Left perch and flew off
3	Breeding 2022	1	11/04/2022	1320	1	20	15	5-15	F		Commuting	Female, good wintering/hunting habitat. Flying low

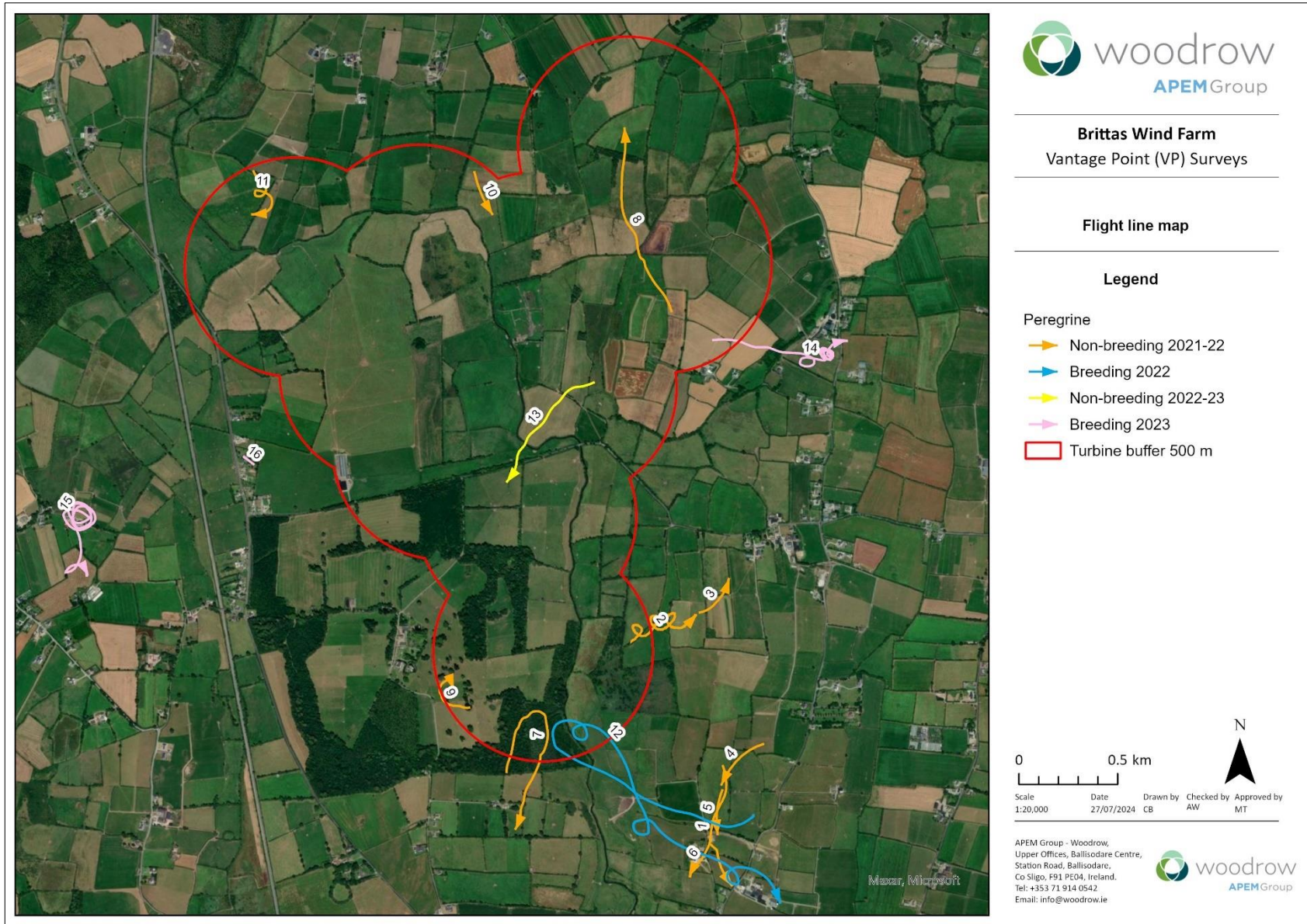


Figure 7E.28: Peregrine observations recorded during VP watches

Table 7E.23: Peregrine data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	24/10/2021	0931	1	40	35		F	Ad	Commuting	
2	Non-breeding 2021-22	1	24/10/2021	1026	1	20	15	15-25		Juv	Hunting	Mobbed by rooks
3	Non-breeding 2021-22	1	24/10/2021	1027	1	20	25				Hunting	
4	Non-breeding 2021-22	1	24/10/2021	1205	1	10	20	20-10	F	A	Hunting	
5	Non-breeding 2021-22	1	24/10/2021	1205	1	10	10	10-20			Hunting	
6	Non-breeding 2021-22	1	24/10/2021	1205	1	10	20				Hunting	
7	Non-breeding 2021-22	1	01/12/2021	1007	1	20	35			Ad	Hunting	
8	Non-breeding 2021-22	2	23/10/2021	1636	1	90	35			Ad	Commuting	
9	Non-breeding 2021-22	3	02/12/2021	1426	1	10	20				Hunting	
10	Non-breeding 2021-22	3	26/02/2022	1115	1	20	15			Ad	Hunting	
11	Non-breeding 2021-22	3	07/03/2022	1522	1	30	20			Ad	Circling	
12	Breeding 2022	1	05/05/2022	1451	1	960	130	5-130			Soaring	
13	Non-breeding 2022-23	4	19/02/2023	1205	1	9	40	30-40			Commuting	Commute flight
14	Breeding 2023	2	09/08/2023	1223	1	12	150	80-150		Ad	Hunting	
15	Breeding season 2023	3	06/03/2023	1110	1	198	60	60-80	M	Ad	Soaring	Drifting S
16	Breeding 2023	3	28/06/2023	1219	1	6	20	20-15		Ad	Alarm call	Alarm calling, appeared to be mobbing. In treeline

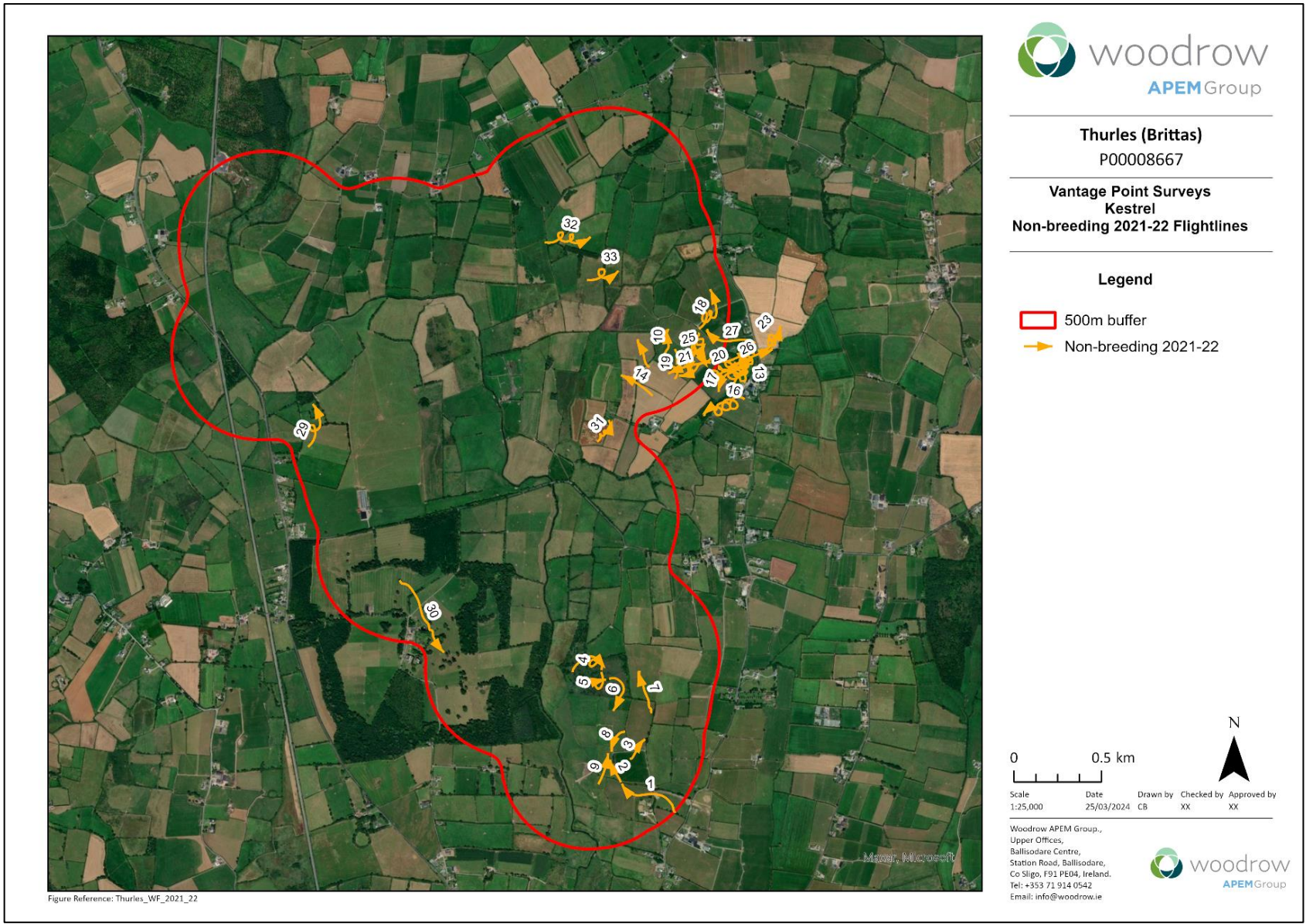


Figure 7E.29: Kestrel observations recorded during VP watches – non-breeding season 2021-22

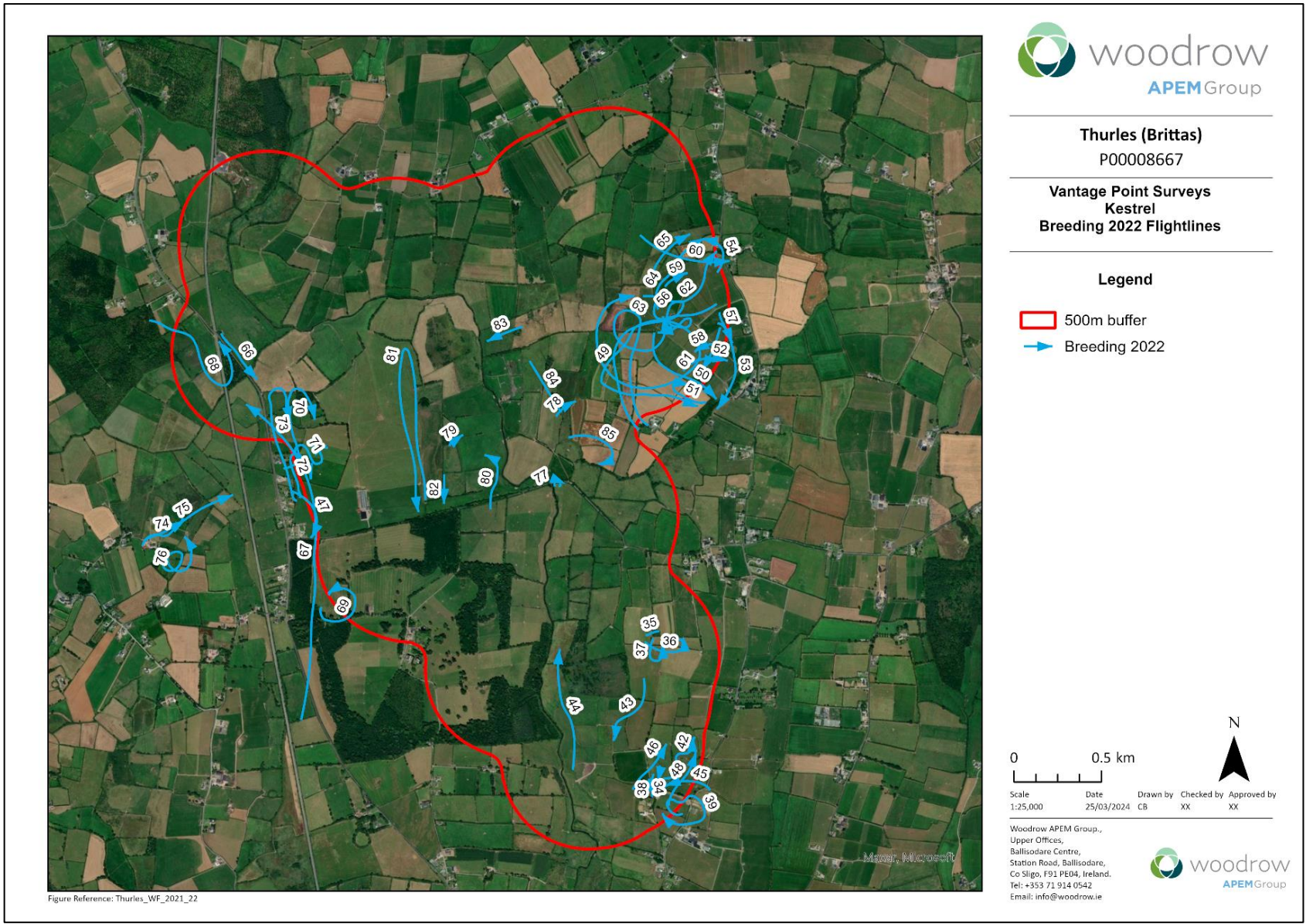


Figure 7E.30: Kestrel observations recorded during VP watches – breeding season2022

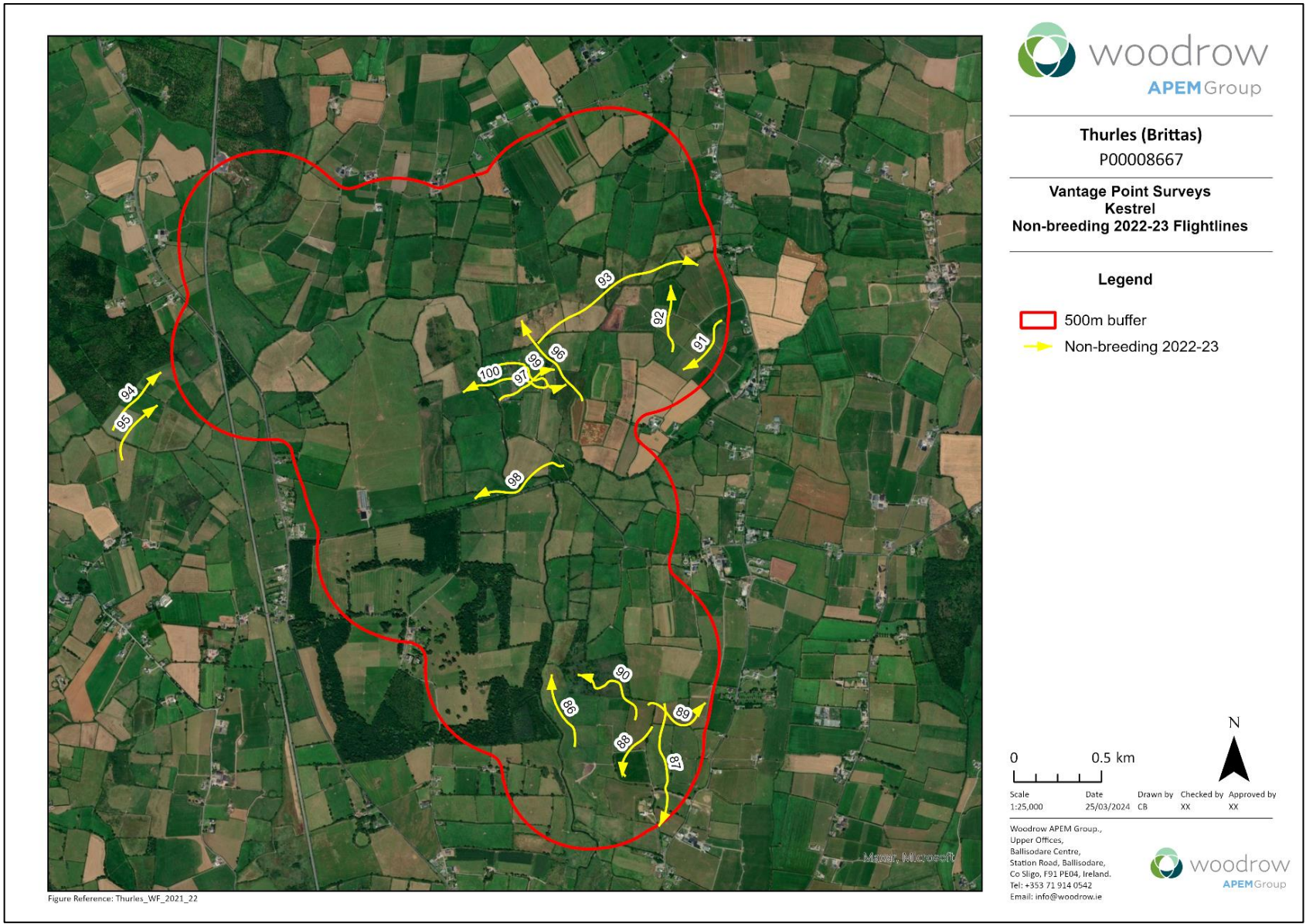


Figure 7E.31: Kestrel observations recorded during VP watches – non-breeding season 2022-23

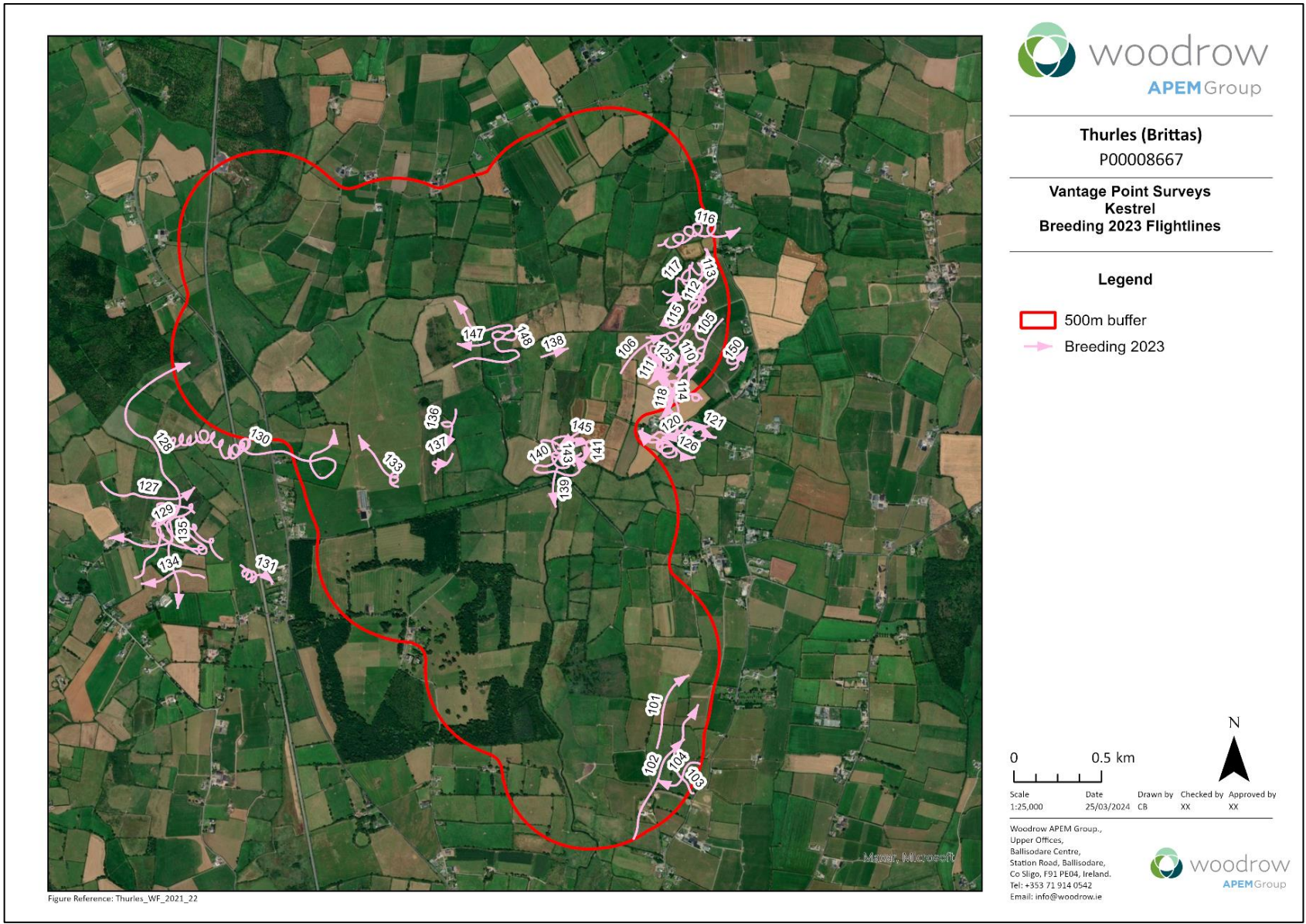


Figure 7E.32: Kestrel observations recorded during VP watches – breeding season 2023

Table 7E.24: Kestrel data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	13/11/2021	0918	1	10	5	5-10	M	Ad	Hunting	Mobbed by HC
2	Non-breeding 2021-22	1	13/11/2021	0919	1	10	10				Hunting	
3	Non-breeding 2021-22	1	01/12/2021	0957	1	5	5		F		Flying	Low over field
4	Non-breeding 2021-22	1	20/01/2022	1439	1	60	25	23-35	M	Ad	Hunting	
5	Non-breeding 2021-22	1	20/01/2022	1440	1	60	35	35-10			Hunting	
6	Non-breeding 2021-22	1	20/01/2022	1441	1	60	10				Hunting	
7	Non-breeding 2021-22	1	20/01/2022	1511	1	30	15		M	Ad	Hunting	
8	Non-breeding 2021-22	1	20/01/2022	1539	1	10	10		M	Ad	Hunting	
9	Non-breeding 2021-22	1	24/02/2022	0810	1	30	20		F	Ad	Flying	
10	Non-breeding 2021-22	2	23/10/2021	1323	1	60	20		F	Ad	Hunting	
11	Non-breeding 2021-22	2	23/10/2021	1728	1	30	15		F	Ad	Hunting	
12	Non-breeding 2021-22	2	12/11/2021	1206	1	30	15		F	Ad	Hunting	
13	Non-breeding 2021-22	2	12/11/2021	1241	1	55	25		M	Ad	Hunting	
14	Non-breeding 2021-22	2	01/12/2021	1226	1	20	15		M	Ad	Hunting	
15	Non-breeding 2021-22	2	01/12/2021	1341	1	10	15		M	Ad	Hunting	
16	Non-breeding 2021-22	2	18/01/2022	1356	1	60	20	20	F	Ad	Hunting	
17	Non-breeding 2021-22	2	18/01/2022	1602	1	120	20	20	F	Ad	Hunting	
18	Non-breeding 2021-22	2	22/01/2022	1406	1	60	15		F	Ad	Hunting	
19	Non-breeding 2021-22	2	22/01/2022	1536	1	30	20		F	Ad	Hunting	
20	Non-breeding 2021-22	2	08/02/2022	1314	1	60	15	15	M	Ad	Hunting	
21	Non-breeding 2021-22	2	08/02/2022	1327	1	20	10		M	Ad	Flying	
22	Non-breeding 2021-22	2	26/02/2022	1431	1	30	15	15	M	Ad	Flying	
23	Non-breeding 2021-22	2	26/02/2022	1607	1	60	10	10	F	Ad	Hunting	
24	Non-breeding 2021-22	2	26/02/2022	1611	1	10	15	15	M	Ad	Flying	
25	Non-breeding 2021-22	2	26/02/2022	1645	1	30	15	15		Ad	Hunting	
26	Non-breeding 2021-22	2	13/03/2022	1207	1	30	15	15	F	Ad	Flying	
27	Non-breeding 2021-22	2	13/03/2022	1226	1	50	20		F	Ad	Hunting	
28	Non-breeding 2021-22	2	13/03/2022	1356	1	60	20		F	Ad	Hunting	
29	Non-breeding 2021-22	3	16/12/2021	1306	1	60	20				Hunting	
30	Non-breeding 2021-22	3	19/01/2022	1031	1	30	35				Commuting	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Non-breeding 2021-22	4	24/10/2021	1612	1	60	30		F	Ad	Soaring	Soaring under buzzard
32	Non-breeding 2021-22	4	19/01/2022	1350	1	20	40				Soaring	
33	Non-breeding 2021-22	4	19/01/2022	1350	1	30	20				Hunting	
34	Breeding 2022	1	11/04/2022	1218	1	5	2	2	M		Flying	Low flight
35	Breeding 2022	1	11/04/2022	1236	1	5	5	5-15			Hunting	Brief view
36	Breeding 2022	1	11/04/2022	1240	1	160	5	5-15			Hunting	
37	Breeding 2022	1	11/04/2022	1246	1	120	10	10			Hunting	
38	Breeding 2022	1	11/04/2022	1510	1	5	2	2	M		Flying	Low flight
39	Breeding 2022	1	05/05/2022	1530	1	660	15	5-15	M+F	Ad	Alarm calling	mobbing BZ, active breeding nearby, possibly at old farm cottage or nearby trees at 52.697245, -7.794175.
40	Breeding 2022	1	05/05/2022	1635	1	10	5	5	F	Ad	Soaring	Female flight, likely responding to farming disturbance
41	Breeding 2022	1	05/05/2022	1707	1	10	5	10			Fly-land	
42	Breeding 2022	1	03/06/2022	1224	1	240	15	15-20	F	Ad	Flying	Moving north
43	Breeding 2022	1	03/06/2022	1306	1	240	15	15-20	F	Ad	Flying	Moving north
44	Breeding 2022	1	03/06/2022	1452	1	180	20	20-25		Ad	Flying	Drifting south
45	Breeding 2022	1	05/08/2022	1237	1	32	20	20-30	F	Ad	Flying	
46	Breeding 2022	1	05/08/2022	1306	1	175	15	15-20		Ad	Hovering	
47	Breeding 2022	1	25/08/2022	1138	1	30	60	50-70				
48	Breeding 2022	1	30/08/2022	1307	1	240	80	80		Ad	Soaring	
49	Breeding 2022	2	13/04/2022	1458	1	450	30	5-30			Hunting	
50	Breeding 2022	2	13/04/2022	1530	1	200	30	5-30			Hunting	
51	Breeding 2022	2	13/04/2022	1700	1	180	20	20			Hunting	
52	Breeding 2022	2	13/04/2022	1110	1	30	20	15-20			Present	
53	Breeding 2022	2	13/05/2022	1403	1	390	30	1-30			Hunting	
54	Breeding 2022	2	13/05/2022	1605	1	120	20	2-20	M	Ad	Hunting	hunting site edge
55	Breeding 2022	2	20/06/2022	1017	1	28	15	15-20	M	Ad	Flying	Travelling Flight
56	Breeding 2022	2	20/06/2022	1107	1	35	20	20-25	M	Ad	Flying	Perching on old ruin for 2mins approx
57	Breeding 2022	2	24/06/2022	1327	1	16	10	10-15	M	Ad	Flying	Perched on old ruin for up to 10mins approx
58	Breeding 2022	2	24/06/2022	1340	1	25	10	10-15	M	Ad	Flying	Flying off from perch.
59	Breeding 2022	2	28/08/2022	1433	1	30	5	3-8		Juv	Calling	
60	Breeding 2022	2	28/08/2022	1500	1	10	15	180-250			Flying	
61	Breeding 2022	2	28/08/2022	1525	1	120	50	15			Flying	
62	Breeding 2022	2	28/08/2022	1528	1	10	25	50-80			Flying	
63	Breeding 2022	2	28/08/2022	1525	1	120	60	20-30			Flying	
64	Breeding 2022	2	28/08/2022	1528	1	15	30	20-30			Flying	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
65	Breeding 2022	2	28/08/2022	1528	1	5	10	15			Flying	
66	Breeding 2022	3	18/04/2022	1547	1	270	15	10-15			Hunting	
67	Breeding 2022	3	18/04/2022	1612	1	190	30	1-30			Hunting	
68	Breeding 2022	3	18/04/2022	1631	1	250	50	20-50			Hunting	
69	Breeding 2022	3	12/05/2022	1136	1	30	20	15-20			Circling	beside BZ
70	Breeding 2022	3	12/05/2022	1155	1	190	15	10-15			Hunting	
71	Breeding 2022	3	12/05/2022	1340	1	170	10	10			Hunting	
72	Breeding 2022	3	12/05/2022	1435	1	120	20	10-20	F	Ad	Hunting	
73	Breeding 2022	3	12/05/2022	1505	1	90	15	15	M	Ad	Hunting	
74	Breeding 2022	3	20/06/2022	1423	1	180	20	20-30		Ad	Flying	Moving East
75	Breeding 2022	3	25/06/2022	1631	1	25	20	1-30			Flushed	
76	Breeding 2022	3	08/08/2022	1307	1	240	80	80-100		Ad	Circling	
77	Breeding 2022	4	12/04/2022	1345	1	0					Displaying	over large area – not tracked
78	Breeding 2022	4	12/04/2022	1450	1	30	10	5-10			Hunting	
79	Breeding 2022	4	12/04/2022	1451	1	10	10	5-10			Hunting	
81	Breeding 2022	4	22/08/2022	1410	1	50	10	10	F	Ad	Hunting	flew back, disturbed by tractors
80	Breeding 2022	4	04/07/2022	1218	1	180	15	15-25	M	Ad	Hovering	
82	Breeding 2022	4	31/08/2022	1909	1	15	10	5-10			Hunting	into trees
83	Breeding 2022	4	31/08/2022	1940	1	180	15	10-15			Hunting	
84	Breeding 2022	4	31/08/2022	2005	1	90	15	15			Hunting	
85	Breeding 2022	4	31/08/2022	2020	1	240	10	10-15			Hunting	
86	Non-breeding 2022-23	1	21/01/2023	1005	1	20	40	30-40			Hunting	Hunting
87	Non-breeding 2022-23	1	05/02/2023	1049	1	8	30	20-30			Commuting	Commuting flight over agri land
88	Non-breeding 2022-23	1	04/03/2023	0941	1	15	35	30-40			Commuting	Commuting flight
89	Non-breeding 2022-23	1	04/03/2023	1316	1	70	30	10-40			Hunting	Hunting
90	Non-breeding 2022-23	1	04/03/2023	1420	1	36	30	20-40			Hunting	Hunting
91	Non-breeding 2022-23	2	29/10/2022	1422	1	22	10	10-15	M	Ad	Flying	Travelling flight, see map K1
92	Non-breeding 2022-23	2	15/01/2023	1140	1	23	50	40-50			Commuting	Commuting flight
93	Non-breeding 2022-23	2	06/03/2023	1009	1	55	30	30-35	F	Ad	Mobbed	Chased by RO
94	Non-breeding 2022-23	3	29/01/2023	1230	1	12	80	15-40			Hunting	Hunting
95	Non-breeding 2022-23	3	05/03/2023	1147	1	6	45	40-50			Commuting	
96	Non-breeding 2022-23	4	22/01/2023	1223	1	14	50	30-50			Commuting	Commuting flight
97	Non-breeding 2022-23	4	19/02/2023	1117	1	13	50	40-50				
98	Non-breeding 2022-23	4	06/03/2023	1248	1	153	12	12-15	M	Ad	Flying	Moving West
99	Non-breeding 2022-23	4	24/03/2023	1821	1	12	60	50-60			Commuting	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
100	Non-breeding 2022-23	4	26/03/2023	1752	1	26	40	20-40			Hunting	
101	Breeding 2023	1	25/03/2023	1015	1	14	50				Commuting	Commuting flight
102	Breeding 2023	1	09/06/2023	1958	1	45	25	25	F	Ad	Commuting	
103	Breeding 2023	1	03/08/2023	1109	1	34	10	10-20	M	Ad	Flying	Low gliding flight. Moving N
104	Breeding 2023	1	19/09/2023	1050	1	116	15	15-20		Ad	Hunting	Hovering, hunting, moving E
105	Breeding 2023	2	01/06/2023	1022	1	32	10	10-15		Ad	Flying	Flying S
106	Breeding 2023	2	01/06/2023	1046	1	35	15	15-20	M	Ad	Flying	Hovering
107	Breeding 2023	2	27/06/2023	0753	1	41	40	15-40			Hunting	Hovering, flew west
108	Breeding 2023	2	27/06/2023	0848	1	2	15	0-15			Flying	Into large ash tree
109	Breeding 2023	2	27/06/2023	0931	1	3	10	0-10	F	Ad	Flying	Behind hedgerow
110	Breeding 2023	2	27/06/2023	0940	1	288	30	1-30	F	Ad	Hunting	
111	Breeding 2023	2	27/06/2023	1004	1	232	30	20-30	M	Ad	Hunting	Below treeline
112	Breeding 2023	2	27/06/2023	1120	1	44	30	20-30	M	Ad	Hunting	
113	Breeding 2023	2	27/06/2023	1123	1	73	30	20-30	F	Ad	Hunting	Hedgerow 20m from VP
114	Breeding 2023	2	27/06/2023	1146	1	49	20	15-20	F	Ad	Hunting	Mobbed BZ, flew west
115	Breeding 2023	2	27/06/2023	1201	1	354	30	0-30	F	Ad	Hunting	Dropped to the ground over hedgerow possibly
116	Breeding 2023	2	27/06/2023	1218	1	267	50	40-50			Hunting	
117	Breeding 2023	2	27/06/2023	1230	1	54	40	20-40			Mobbing	Mobbing BZ for 30sec
118	Breeding 2023	2	27/06/2023	1328	1	192	20	5-20	M	Ad	Hunting	Hovering, flew west, swooped at female K on hawthorn, female dropped to perch on fencepost
119	Breeding 2023	2	27/06/2023	1328	1	48	5	0-5	F	Ad	Hunting	Female dropped to perch on fencepost, then perched in hedgerow, birds then flew over hedgerow into garden of house
120	Breeding 2023	2	31/07/2023	1307	1	204	30	20-30	F	Ad	Hunting	Hovering, dropped behind treeline
121	Breeding 2023	2	31/07/2023	1312	1	118	50	20-50	F	Ad	Hunting	Hovering, dropped behind treeline
122	Breeding 2023	2	31/07/2023	1323	1	15	25	20-25	M	Ad	Hunting	Hovering, dropped behind treeline
123	Breeding 2023	2	31/07/2023	1323	1	33	25	20-25	F	Ad	Hunting	Landed and perched
124	Breeding 2023	2	09/08/2023	1400	1	266	30	0-30	M	Ad	Hunting	
125	Breeding 2023	2	09/08/2023	1446	1	581	30	1-30	M	Ad	Hunting	
126	Breeding 2023	2	28/08/2023	1611	1	584	30	20-30	M	Ad	Hunting	
150	Breeding 2023	2	29/04/2023	1135	1	45	40	40-50			Hunting	
151	Breeding 2023	2	29/04/2023	1154	1	240	60				Hunting	
127	Breeding 2023	3	19/06/2023	1146	1	28	25	25-30		Ad	Flying	Gliding flight
128	Breeding 2023	3	28/06/2023	1455	1	198	30	15-30	M	Ad	Hunting	
129	Breeding 2023	3	28/06/2023	1557	1	263	70	20-70	F	Ad	Hunting	
130	Breeding 2023	3	28/06/2023	1656	1	992	100	2-100	M	Ad	Hunting	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
131	Breeding 2023	3	18/07/2023	1417	1	233	100	30-100	F	Ad	Soaring	Same thermal as above
133	Breeding 2023	3	18/07/2023	1831	1	106	30	30			Hunting	
134	Breeding 2023	3	18/07/2023	1848	1	22	15	15-	F	Ad	Flying	To telephone pole
135	Breeding 2023	3	16/08/2023	1458	1	658	50	0-15	F	Ad	Hunting	
136	Breeding 2023	4	26/06/2023	1846	1	120	20	3-20	M	Ad	Hunting	
137	Breeding 2023	4	26/06/2023	1848	1	10	3	3			Flying	
138	Breeding 2023	4	26/06/2023	1915	1	60	25	25	M	Ad	Hunting	
139	Breeding 2023	4	27/06/2023	1522	1	22	20	20-	M	Ad	Flying	
140	Breeding 2023	4	27/06/2023	1608	1	185	30	5-30	F	Ad	Hunting	Behind hedgerow
141	Breeding 2023	4	27/06/2023	1612	1	140	30	0-30			Hunting	Dived behind hedgerow
142	Breeding 2023	4	19/07/2023	1130	1	97	50	5-50			Hunting	Dropped below hedgerow
143	Breeding 2023	4	19/07/2023	1142	1	245	30	1-30			Hunting	behind/below hedgerow
144	Breeding 2023	4	19/07/2023	1156	1	48	20	10-20			Hunting	behind/below hedgerow
145	Breeding 2023	4	19/07/2023	1212	1	317	30	0-30			Hunting	behind/below hedgerow
146	Breeding 2023	4	28/08/2023	1314	1	0	-	-	F	Ad	Perched	On telephone wire
147	Breeding 2023	4	20/09/2023	1501	1	84	25	25-			Hunting	Behind treeline
148	Breeding 2023	4	20/09/2023	1558	1	202	30	20-30	F	Ad	Hunting	

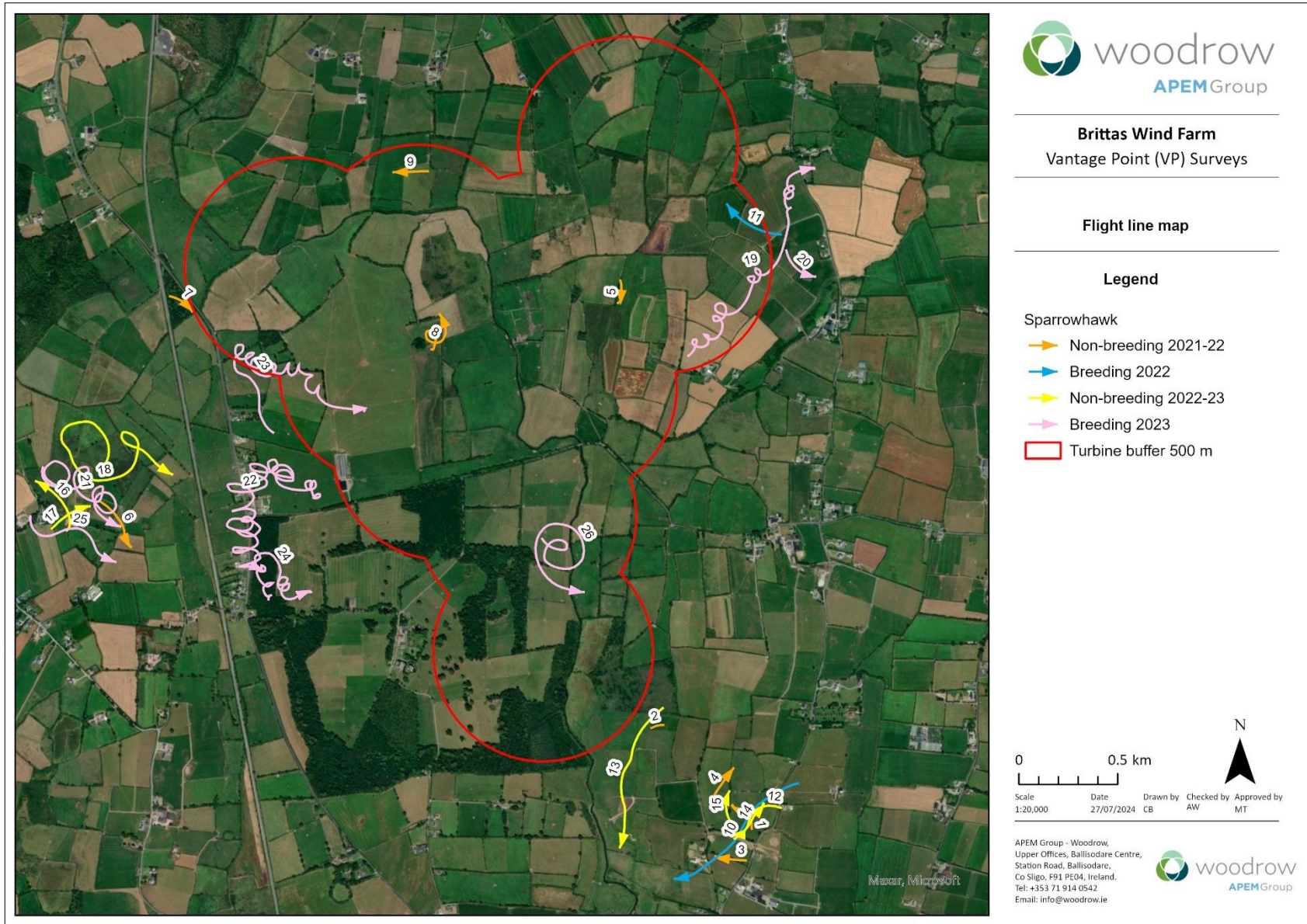


Figure 7E.33: Sparrowhawk observations recorded during VP watches

Table 7E.25: Sparrowhawk data collected during VP watches

Aggregate seconds = flight/observation time x by the number of birds recorded

	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No.	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	24/10/2021	0854	1	20	4	4	M	Ad	Hunting	Low over hedge and field in front of VP
2	Non-breeding 2021-22	1	16/12/2021	1106	1	5	5	5	F	Ad	Hunting	
3	Non-breeding 2021-22	1	18/01/2022	1136	1	8	5	5	F	Ad	Hunting	
4	Non-breeding 2021-22	1	18/01/2022	1219	1	15	10	10	F	Ad	Hunting	
5	Non-breeding 2021-22	2	22/11/2021	1224	1	10	20	20			Hunting	
6	Non-breeding 2021-22	3	23/01/2022	1108	1	10	10	10	F	Ad	Hunting	
7	Non-breeding 2021-22	3	24/02/2022	1619	1	20	15	15	F	Ad	Hunting	
8	Non-breeding 2021-22	3	26/02/2022	1309	1	40	20	20	F	Ad	Soaring	
9	Non-breeding 2021-22	4	07/03/2022	1225	1	10	5	5	F	Ad	Hunting	
10	Breeding 2022	1	25/08/2022	1121	1	10	12	10-15	M			
11	Breeding 2022	2	13/04/2022	1345	1	30	60	20-60	M		Displaying	Prospecting flight
12	Non-breeding 2022-23	1	24/10/2022	1706	1	8	15	14-16			Commuting	
13	Non-breeding 2022-23	2	24/10/2022	1711	1	21	55	50-60		Ad	Commuting	
14	Non-breeding 2022-23	1	12/12/2022	1105	1	7	5	5-10	F	Ad	Hunting	Flushing RE-FF
15	Non-breeding 2022-23	1	04/03/2023	1013	1	4	3	1-5			Hunting	Hunting flight
16	Non-breeding 2022-23	1	29/10/2022	1116	1	16	20	20-30	F	Ad	Flying	Being mobbed by HC
17	Non-breeding 2022-23	1	31/10/2022	1435	1	8	6	6-10	F	Ad	Hunting	Quick hunting flight
18	Non-breeding 2022-23	3	01/03/2023	1306	1	146	50	50-60	F	Ad	Circling	Drifting east
19	Breeding 2023	3	27/06/2023	1259	1	322	200	50-20			Hunting	
20	Breeding 2023	3	28/08/2023	1838	1	11	25	0-25	F	Ad	Hunting	
21	Breeding 2023	2	06/03/2023	1109	1	263	60	60-80	F	Ad	Soaring	Moving SE
22	Breeding 2023	2	28/06/2023	1645	1	466	120	70-120			Hunting	
23	Breeding 2023	3	18/07/2023	1743	1	194	150	20-150			Hunting	
24	Breeding 2023	3	16/08/2023	1436	1	90	80	50-80			Soaring	
25	Breeding 2023	3	16/08/2023	1931	1	28	20	20-	F	Ad	Hunting	
26	Breeding 2023	3	29/04/2023	1650	1	240	70	4-110			Circling	Circling up – rising slowly over flood plain

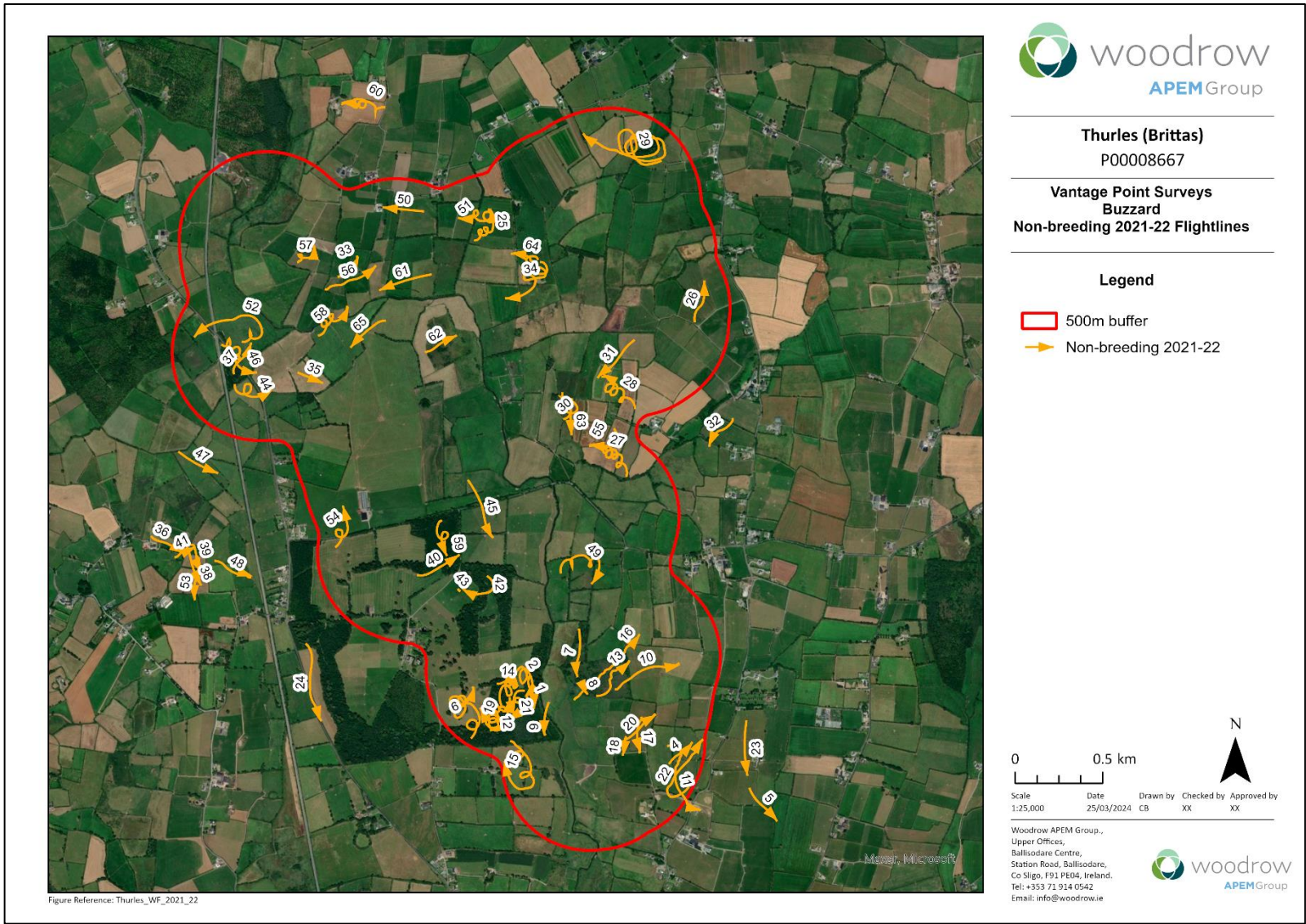


Figure 7E.34: Buzzard observations recorded during VP watches - non-breeding season 2021-22

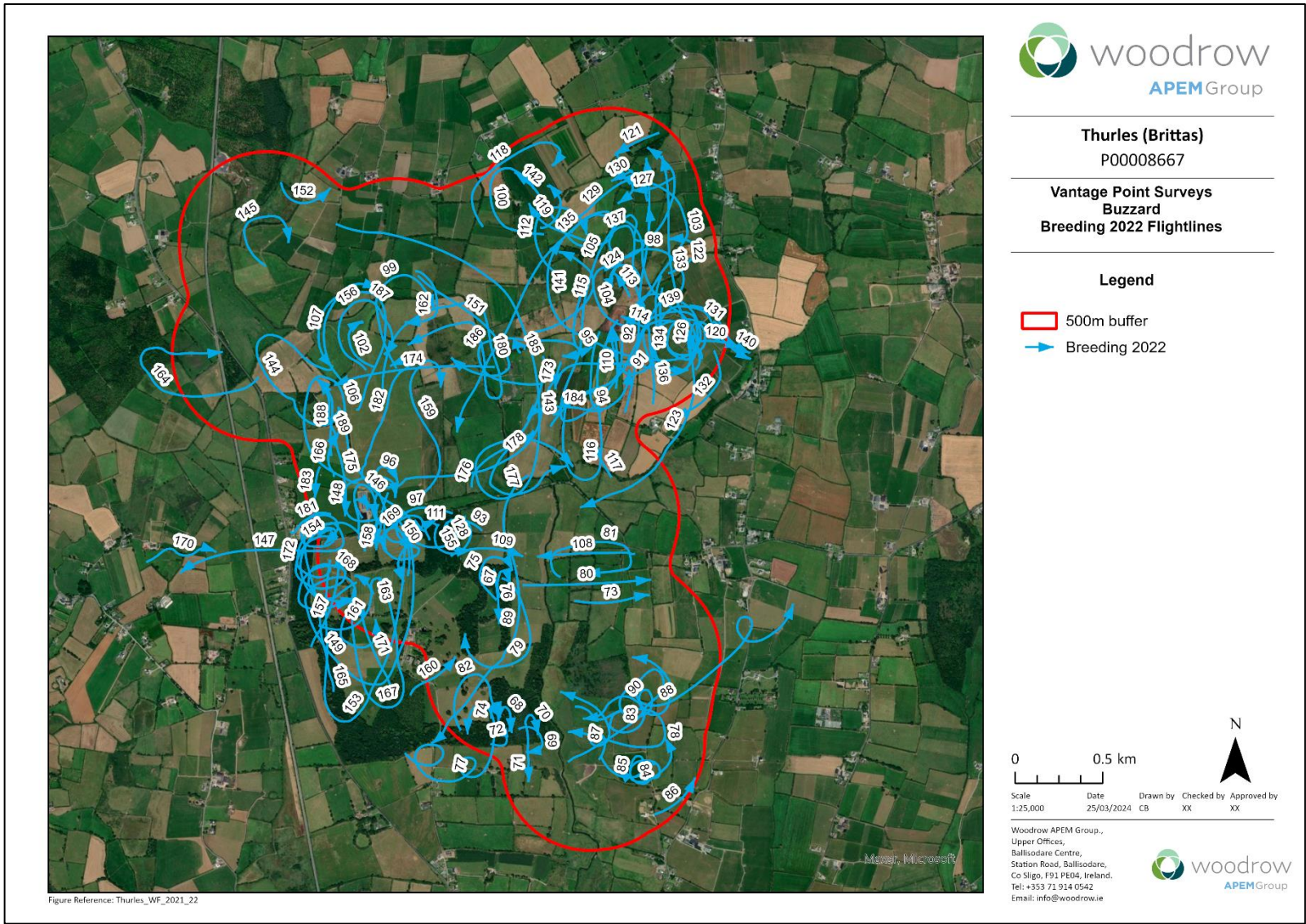


Figure 7E.35: Buzzard observations recorded during VP watches – breeding season 2022

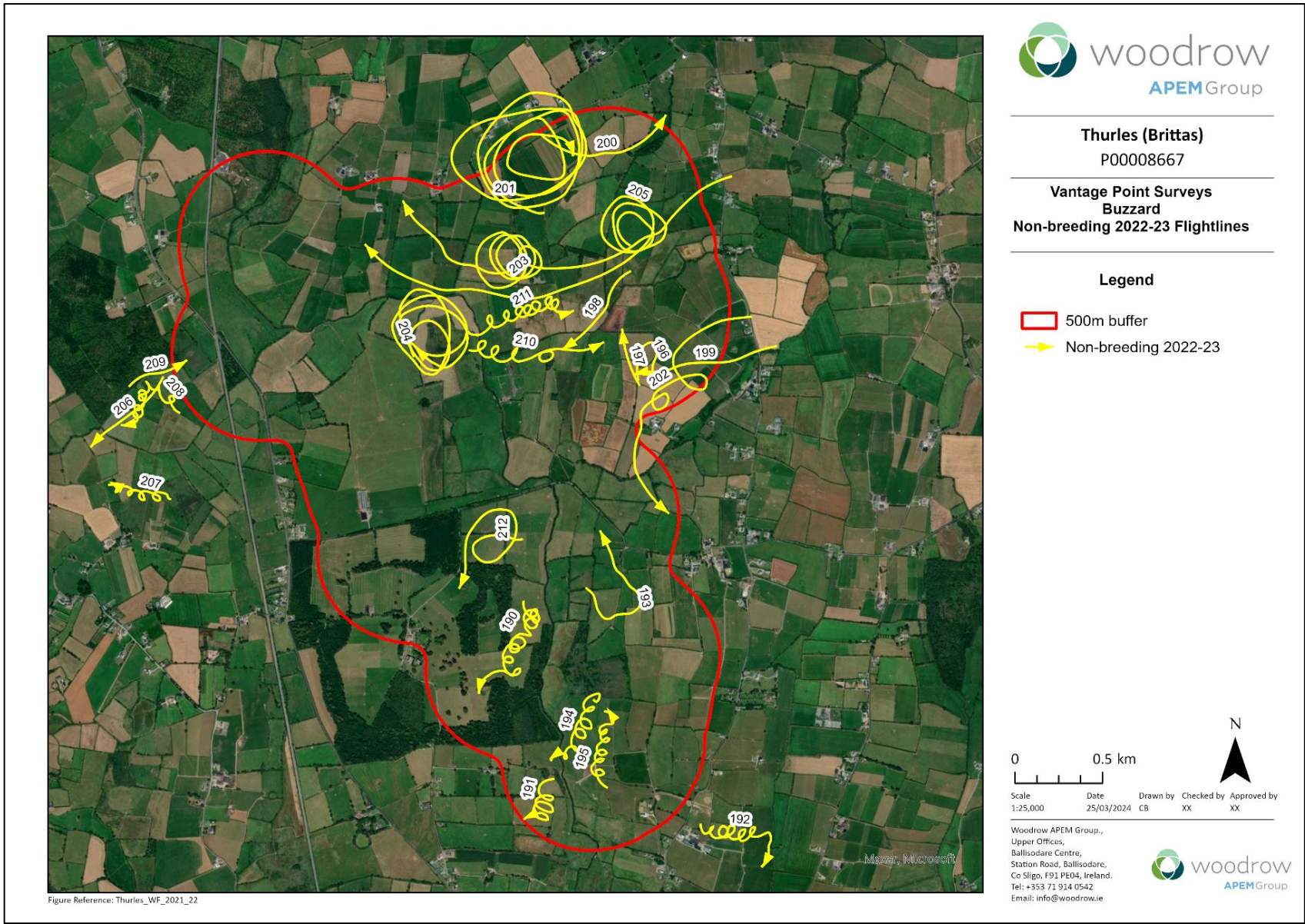


Figure 7E.36: Buzzard observations recorded during VP watches - non-breeding season 2022-23

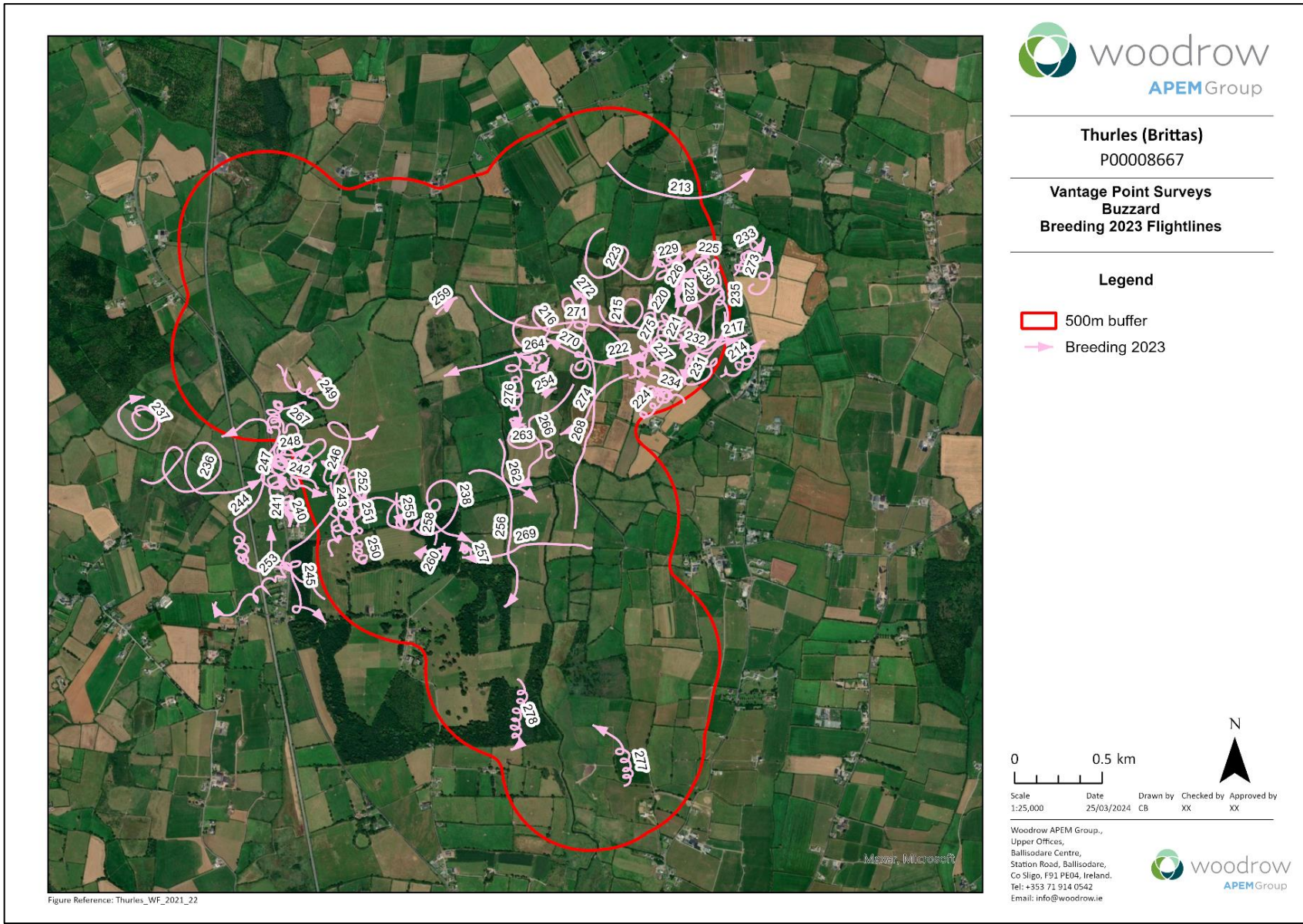


Figure 7E.37: Buzzard observations recorded during VP watches – breeding season 2023

Table 7E.26: Buzzard data collected during VP watches

	Aggregate seconds = flight/observation time x by the number of birds recorded
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Non-breeding 2021-22	1	24/10/2021	1021	1	10	20	20			Commuting	
2	Non-breeding 2021-22	1	24/10/2021	1130	1	48	25	25-15			Soaring	Mobbed by HC
3	Non-breeding 2021-22	1	24/10/2021	1131	1	12	15	15			Soaring	
4	Non-breeding 2021-22	1	24/10/2021	1135	1	10	5	5		Juv	Commuting	Chased by 2 HC
5	Non-breeding 2021-22	1	24/10/2021	1148	1	15	10	10		Juv	Commuting	Same bird as flightline3
6	Non-breeding 2021-22	1	24/10/2021	1245	1	60	25	25		Ad	Hunting	
7	Non-breeding 2021-22	1	24/10/2021	1344	1	30	15	15-5		Ad	Hunting	
8	Non-breeding 2021-22	1	24/10/2021	1345	1	10	5	5			Hunting	
9	Non-breeding 2021-22	1	11/11/2021	1031	1	10	15	15		Ad	Commuting	
10	Non-breeding 2021-22	1	11/11/2021	1142	1	30	30	31			Hunting	
11	Non-breeding 2021-22	1	11/11/2021	1417	1	140	15	15		Ad	Hunting	
12	Non-breeding 2021-22	1	11/11/2021	1458	2	60	30	30			Circling	
13	Non-breeding 2021-22	1	11/11/2021	1503	1	40	7	7			Hunting	
14	Non-breeding 2021-22	1	11/11/2021	1508	1	5	15	15			Circling	
15	Non-breeding 2021-22	1	11/11/2021	1515	1	120	40	40			Circling	
16	Non-breeding 2021-22	1	11/11/2021	1527	1	60	35	35			Commuting	
17	Non-breeding 2021-22	1	11/11/2021	1530	2	60	10	10			Hunting	Two birds together
18	Non-breeding 2021-22	1	13/11/2021	0836	1	10	5	5			Hunting	
19	Non-breeding 2021-22	1	18/01/2022	1022	1	30	15	15			Soaring	
20	Non-breeding 2021-22	1	18/01/2022	1106	1	15	10	10			Flying	
21	Non-breeding 2021-22	1	18/01/2022	1148	1	15	15	15			Soaring	
22	Non-breeding 2021-22	1	20/01/2022	1301	2	120	10	10		Ad	Hunting	
23	Non-breeding 2021-22	1	08/02/2022	0928	1	20	10	10			Flying	
24	Non-breeding 2021-22	1	24/02/2022	1002	1	50	40	40			Flying	Mobbed by 6 RO
25	Non-breeding 2021-22	2	23/10/2021	1544	4	160	40	40			Soaring	4 birds together
26	Non-breeding 2021-22	2	23/10/2021	1746	1	20	10	10		Ad	Commuting	Low over field
27	Non-breeding 2021-22	2	12/11/2021	1220	2	240	20	20			Soaring	
28	Non-breeding 2021-22	2	22/11/2021	1011	2	240	40	40			Soaring	
29	Non-breeding 2021-22	2	22/11/2021	1328	1	180	60	60			Soaring	
30	Non-breeding 2021-22	2	20/12/2021	1025	1	10	15	15			Flying	Up and back down

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
31	Non-breeding 2021-22	2	18/01/2022	1403	1	30	25	25			Commuting	
32	Non-breeding 2021-22	2	22/01/2022	1606	1	20	15	15			Commuting	
33	Non-breeding 2021-22	2	26/02/2022	1520	1	20	25	25			Soaring	
34	Non-breeding 2021-22	2	13/03/2022	1311	2	120	30	30			Soaring	
35	Non-breeding 2021-22	3	26/10/2021	1243	1	10	20	20			Commuting	
36	Non-breeding 2021-22	3	23/11/2021	1315	1	30	10	10			Hunting	
37	Non-breeding 2021-22	3	23/11/2021	1322	1	20	15	15			Commuting	
38	Non-breeding 2021-22	3	23/11/2021	1402	1	20	10	10			Hunting	
39	Non-breeding 2021-22	3	24/11/2021	1033	1	10	10	10			Hunting	
40	Non-breeding 2021-22	3	16/12/2021	1428	1	10	10	10			Commuting	
41	Non-breeding 2021-22	3	21/12/2021	1017	1	5	10	10			Hunting	
42	Non-breeding 2021-22	3	19/01/2022	0943	1	10	25	25		Ad	Flying	
43	Non-breeding 2021-22	3	19/01/2022	0943	1	0	25	25-0			Landed	No flight seconds attributed as bird landing
44	Non-breeding 2021-22	3	19/01/2022	1034	2	60	25	25			Soaring	
45	Non-breeding 2021-22	3	19/01/2022	1038	1	5	15	15			Commuting	
46	Non-breeding 2021-22	3	19/01/2022	1052	2	120	25	25			Soaring	Same birds as flightline 10
47	Non-breeding 2021-22	3	23/01/2022	1047	1	20	10	10			Flying	
48	Non-breeding 2021-22	3	23/01/2022	1058	1	20	15	15			Flying	
49	Non-breeding 2021-22	3	24/02/2022	1430	2	120	30	30		Ad	Soaring	Two birds together
50	Non-breeding 2021-22	3	24/02/2022	1431	1	30	20	20			Hunting	
51	Non-breeding 2021-22	3	24/02/2022	1431	1	20	25	25			Soaring	
52	Non-breeding 2021-22	3	07/03/2022	1557	2	60	35	35			Soaring	
53	Non-breeding 2021-22	3	07/03/2022	1617	1	20	15	15			Commuting	
54	Non-breeding 2021-22	3	07/03/2022	1639	1	50	20	20			Hunting	
55	Non-breeding 2021-22	4	24/10/2021	1612	1	60	35	35		Ad	Soaring	
56	Non-breeding 2021-22	4	09/01/2022	1455	1	15	10	10			Flying	
57	Non-breeding 2021-22	4	19/01/2022	1247	1	30	30	30			Hunting	
58	Non-breeding 2021-22	4	24/02/2022	1213	1	30	20	20			Soaring	Over woodland
59	Non-breeding 2021-22	4	24/02/2022	1312	1	20	20	20			Soaring	
60	Non-breeding 2021-22	4	24/02/2022	1325	1	60	40	40			Soaring	
61	Non-breeding 2021-22	4	24/02/2022	1338	1	20	10	10		Ad	Hunting	Mobbed by 2 HC
62	Non-breeding 2021-22	4	26/02/2022	0923	1	20	15	15			Hunting	
63	Non-breeding 2021-22	4	26/02/2022	0952	1	5	10	10			Flying	
64	Non-breeding 2021-22	4	07/03/2022	1253	2	40	15	15			Soaring	Over treetops
65	Non-breeding 2021-22	4	07/03/2022	1304	1	10	5	5		Ad	Flying	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
66	Breeding 2022	1	11/04/2022	1150	1	10	10	10			Present	suitable breeding habitat/dropped into wood area
67	Breeding 2022	1	11/04/2022	1205	2	300	15	10-15			Displaying	interacting, talon grasp - breeding pair
68	Breeding 2022	1	11/04/2022	1218	1	60	15	15			Circling	landed into woodland area
69	Breeding 2022	1	11/04/2022	1305	1	100	25	15-25			Flying	just above trees/ slow glide
70	Breeding 2022	1	11/04/2022	1500	2	720	35	35			Displaying	
71	Breeding 2022	1	11/04/2022	1531	1	250	80	15-80			Circling	slow circling, gliding over trees
72	Breeding 2022	1	11/04/2022	1600	1	240	50	30-50			Displaying	
73	Breeding 2022	1	11/04/2022	1610	1	80	50	30-50			Circling	
74	Breeding 2022	1	11/04/2022	1709	1	140	30	30			Flying	over trees
75	Breeding 2022	1	05/05/2022	1243	1	540	30	20-30			Gliding	went into wooded area
76	Breeding 2022	1	05/05/2022	1451	1	30	30	30			Gliding	lost view to follow PE flight
77	Breeding 2022	1	05/05/2022	1510	2	1,200	140	30-140			Displaying	over suitable nesting habitat
78	Breeding 2022	1	05/05/2022	1617	1	270	40	20-40			Displaying	
79	Breeding 2022	1	05/05/2022	1618	1	250	70	20-70			Displaying	
80	Breeding 2022	1	05/05/2022	1625	1	90	140	140			Circling	
81	Breeding 2022	1	05/05/2022	1650	1	200	80	40-80			Displaying	
82	Breeding 2022	1	05/05/2022	1700	1	280	50	30-50			Displaying	went into trees
83	Breeding 2022	1	04/07/2022	1026	1	180	40	40-50	M	Ad	Gliding	
84	Breeding 2022	1	04/07/2022	1107	1	300	40	40-50	M	Ad	Gliding	
85	Breeding 2022	1	16/07/2022	1125	1	840	100	100-150			Soaring	
86	Breeding 2022	1	16/07/2022	1244	1	420	80	80-100	M	Ad	Soaring	
87	Breeding 2022	1	05/08/2022	1427	1	130	80	80-100		Ad	Soaring	
88	Breeding 2022	1	25/08/2022	1357	1	65	150	120-160				
89	Breeding 2022	1	25/08/2022	1437	1	30	80	60-90				
90	Breeding 2022	1	30/08/2022	1219	3	1,260	100	100		Ad	Soaring	
91	Breeding 2022	2	13/04/2022	1458	1	500	120	20-120			Displaying	
92	Breeding 2022	2	13/04/2022	1515	1	90	20	5-20			Gliding	descended into wood area.
93	Breeding 2022	2	13/04/2022	1535	2	1,400	70	30-70			Displaying	
94	Breeding 2022	2	13/04/2022	1537	1	500	150	10-150			Displaying	
95	Breeding 2022	2	13/04/2022	1635	1	480	200	50-200			Displaying	
96	Breeding 2022	2	13/04/2022	1645	2	800	100	30-100			Displaying	Over woodland, suitable for breeding.
97	Breeding 2022	2	13/04/2022	1702	3	1,350	100	80-100			Displaying	
98	Breeding 2022	2	13/04/2022	1120	2	460	240	10-240			Displaying	descended to woodland/displaying high
99	Breeding 2022	2	13/04/2022	1127	4	1,200	200	100-200			Displaying	
100	Breeding 2022	2	13/04/2022	1135	1	135	100	80-100			Displaying	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
101	Breeding 2022	2	13/04/2022	1230	1	240	120	50-120			Displaying	
102	Breeding 2022	2	13/04/2022	1231	3	900	150	80-150			Displaying	
103	Breeding 2022	2	13/04/2022	1240	2	1,200	80	5-80			Displaying	descended into trees
104	Breeding 2022	2	13/04/2022	1253	2	360	60	5-60			Displaying	talon grasp, sharp descent -breeding pair
105	Breeding 2022	2	13/04/2022	1300	2	2,520	220	10-220			Displaying	likely nesting area marked 14X
106	Breeding 2022	2	13/04/2022	1331	2	1,200	150	20-150			Displaying	likely nesting area marked 15X
107	Breeding 2022	2	13/04/2022	1333	3	1,200	200	30-200			Displaying	separate third pair
108	Breeding 2022	2	13/05/2022	1020	1	45	30	30			Circling	
109	Breeding 2022	2	13/05/2022	1023	2	60	40	30-40			Circling	
110	Breeding 2022	2	13/05/2022	1026	1	50	15	15			Flying	
111	Breeding 2022	2	13/05/2022	1040	1	120	25	25			Circling	
112	Breeding 2022	2	13/05/2022	1150	1	540	40	15-40			Circling	
113	Breeding 2022	2	13/05/2022	1200	1	230	20	5-20			Circling	
114	Breeding 2022	2	13/05/2022	1245	1	40	10	2-10			Gliding	over scrub
115	Breeding 2022	2	13/05/2022	1427	1	180	20	3-20			Circling	
116	Breeding 2022	2	13/05/2022	1533	1	630	50	5-50			Circling	
117	Breeding 2022	2	13/05/2022	1540	1	10	5	5			Flying	over lapwing breeding area
118	Breeding 2022	2	13/05/2022	1545	1	60	40	40			Circling	site edge
119	Breeding 2022	2	13/05/2022	1557	1	30	10	10			Flying	low behind hedges
120	Breeding 2022	2	20/06/2022	1035	1	420	100	100-150	M	Ad	Soaring	Drifting West
121	Breeding 2022	2	06/07/2022	1515	1	25	30	20-30			Flying	glide over wooded area
122	Breeding 2022	2	06/07/2022	1535	1	240	60	30-60			Soaring	soaring/hunting and circling
123	Breeding 2022	2	06/07/2022	1548	1	400	90	10-90			Soaring	soaring/hunting
124	Breeding 2022	2	06/07/2022	1703	1	150	60	5-60			Circling	
125	Breeding 2022	2	06/07/2022	1732	1	60	30	5-30			Flying	landed
126	Breeding 2022	2	06/07/2022	1737	1	90	20	10-15			Hunting	hovering briefly
127	Breeding 2022	2	06/07/2022	1137	1	150	40	10-40			Hunting	glided low out of view
128	Breeding 2022	2	06/07/2022	1220	2	180	30	20-30			Circling	over woodland
129	Breeding 2022	2	06/07/2022	1235	1	80	80	15-80			soaring	low glide, ascended, descended
130	Breeding 2022	2	06/07/2022	1300	1	70	30	20-30			gliding	gliding low
131	Breeding 2022	2	06/07/2022	1305	1	10	10	10			Flying	out of view behind hedgerow
132	Breeding 2022	2	06/07/2022	1345	1	80	5	2-5			Flying	gliding low
133	Breeding 2022	2	06/07/2022	1358	1	240	50	5-50			Carrying food	to likely nest area marked 7
134	Breeding 2022	2	28/08/2022	1445	1	120	40	20-60			Calling	
135	Breeding 2022	2	28/08/2022	1447	1	780	80	80-300			Flying	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
136	Breeding 2022	2	28/08/2022	1446	1	90	60	50-80			Flying	
137	Breeding 2022	2	28/08/2022	1447	1	66	80	70-100			Flying	
138	Breeding 2022	2	28/08/2022	1448	1	10	150	10-150			Flying	
139	Breeding 2022	2	28/08/2022	1447	1	180	80	70-100			Flying	
140	Breeding 2022	2	28/08/2022	1450	1	30	40	70-100			Flying	
141	Breeding 2022	2	28/08/2022	1447	1	90	100	10-50			Flying	
142	Breeding 2022	2	28/08/2022	1448	1	660	200	90-120			Flying	
143	Breeding 2022	2	28/08/2022	1549	1	90	80	60-150			Flying	
144	Breeding 2022	3	18/04/2022	1135	1	480	90	10-90			Displaying	over scrub/ woodland
145	Breeding 2022	3	18/04/2022	1200	3	135	120	90-120			Displaying	together
146	Breeding 2022	3	18/04/2022	1205	1	120	70	30-70			Displaying	likely nesting area marked X
147	Breeding 2022	3	18/04/2022	1206	2	400	40	10-40			Flight call	both birds flying together
148	Breeding 2022	3	18/04/2022	1214	1	60	50	10-50			Flying	circling farmyard
149	Breeding 2022	3	18/04/2022	1215	2	1,560	100	10-100			displaying	landed at wooded area
150	Breeding 2022	3	18/04/2022	1301	2	60	30	30			Circling	over woodland
151	Breeding 2022	3	18/04/2022	1330	2	300	50	20-50			Circling	
152	Breeding 2022	3	18/04/2022	1520	1	150	120	30-120			displaying	at edge of 500m buffer
153	Breeding 2022	3	18/04/2022	1610	3	660	40	20-40			Circling	
154	Breeding 2022	3	18/04/2022	1620	2	500	25	10-25			Circling	over woodland
155	Breeding 2022	3	18/04/2022	1630	1	200	50	50			Circling	display
156	Breeding 2022	3	18/04/2022	1645	1	100	110	40-110			Circling	going high
157	Breeding 2022	3	12/05/2022	1135	1	45	40	15-40			Circling	out of view to sun
158	Breeding 2022	3	12/05/2022	1150	1	100	30	15-30			Circling	landed into trees
159	Breeding 2022	3	12/05/2022	1150	2	640	50	20-50			Displaying	together
160	Breeding 2022	3	12/05/2022	1210	1	40	15	15			Gliding	went behind cover
161	Breeding 2022	3	12/05/2022	1220	1	120	20	10-20			Gliding	above trees
162	Breeding 2022	3	12/05/2022	1325	1	330	40	10-40			Displaying	low into scrub
163	Breeding 2022	3	12/05/2022	1330	3	330	20	5-20			Displaying	low into trees
164	Breeding 2022	3	12/05/2022	1520	1	200	20	10-20			circling	
165	Breeding 2022	3	12/05/2022	1541	1	430	70	15-70			landed	in trees
166	Breeding 2022	3	12/05/2022	1604	1	40	10	10			landed	
167	Breeding 2022	3	12/05/2022	1630	1	600	25	10-25			Circling	returning to likely nest area
168	Breeding 2022	3	20/06/2022	1220	2	1,560	200	200-300	1M1F	Ad	Soaring	Descending over woodland out of sight.
169	Breeding 2022	3	20/06/2022	1242	1	420	200	200-300		Ad	Soaring	Drifting South
170	Breeding 2022	3	20/06/2022	1338	1	55	30	30-40	M	Ad	Flying	Moving East

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
171	Breeding 2022	3	25/06/2022	1722	1	15	20	10-30			Flying	
172	Breeding 2022	3	08/08/2022	1219	3	1,260	100	100-150		Ad	Soaring	
173	Breeding 2022	4	12/04/2022	1626	1	45	10	10			Present	low glide
174	Breeding 2022	4	12/04/2022	1630	1	60	10	10			Present	
175	Breeding 2022	4	12/04/2022	1634	1	25	15	15			Present	
176	Breeding 2022	4	12/04/2022	1328	1	30	10	5-10			Present	
177	Breeding 2022	4	12/04/2022	1345	1	250	120	20-120			Flying	landed on callow
178	Breeding 2022	4	12/04/2022	1405	2	920	200	40-200			Displaying	
179	Breeding 2022	4	12/04/2022	1412	1	120	100	60-100			Displaying	
180	Breeding 2022	4	12/04/2022	1428	3	3,600	200	100-200			Displaying	
181	Breeding 2022	4	12/04/2022	1440	3	2,160	180	30-180			Displaying	
182	Breeding 2022	4	12/04/2022	1440	4	2,800	180	30-180			Displaying	
183	Breeding 2022	4	12/04/2022	1500	2	780	50	40-50			Displaying	
184	Breeding 2022	4	12/04/2022	1501	1	390	70	60-70			Displaying	
185	Breeding 2022	4	06/05/2022	1020	1	0	-	-			Perched	for 45 minutes at c. 5m
186	Breeding 2022	4	22/08/2022	1620	4	2,120	60	20-60			Displaying	Likely 2 pairs
187	Breeding 2022	4	22/08/2022	1622	2	900	60	20-60			Displaying	
188	Breeding 2022	4	22/08/2022	1305	1	20	20	10-20			Flying	Glide
189	Breeding 2022	4	22/08/2022	1340	1	60	60	40-60			Displaying	
190	Non-breeding 2022-23	1	21/01/2023	1021	1	45	100	80-100			Circling	Circling
191	Non-breeding 2022-23	1	21/01/2023	1242	1	12	50	40-50			Circling	Circling
192	Non-breeding 2022-23	1	21/01/2023	1311	1	30	70	60-70			Circling	Circling
193	Non-breeding 2022-23	1	25/01/2023	1421	2	168	75	0-80			Soaring	Circling, soaring and travelling N
194	Non-breeding 2022-23	1	04/03/2023	1132	1	186	65	60-70			Circling	Circling
195	Non-breeding 2022-23	1	04/03/2023	1447	1	125	85	80-90			Circling	Circling
196	Non-breeding 2022-23	2	28/11/2022	1432	1	12	5	3-10			Hunting	Sortie from perch to wet pasture and returned, likely hunting worms
197	Non-breeding 2022-23	2	28/11/2022	1441	1	2	12	10-20			Flying	Different individual to #20
198	Non-breeding 2022-23	2	15/01/2023	1024	1	20	100	80-100			Commuting	Commute Flight
199	Non-breeding 2022-23	2	06/02/2023	1547	2	56	50	40-50			Mobbed	Commute, mobbed by rooks
200	Non-breeding 2022-23	2	06/03/2023	1019	1	50	75	60-80		Ad	Mobbed	Chased by HC
201	Non-breeding 2022-23	2	06/03/2023	1027	4	6,640	400	200-600	Pairs	Ad	Soaring	In pairs
202	Non-breeding 2022-23	2	06/03/2023	1053	1	85	150	140-160		Ad	Hunting	
203	Non-breeding 2022-23	2	06/03/2023	1107	2	490	150	100-200		Ad	Hunting	
204	Non-breeding 2022-23	2	06/03/2023	1139	2	1,440	500	400-600		Ad	Soaring	Courtship/displaying
205	Non-breeding 2022-23	2	06/03/2023	1223	2	1,200	200	150-250		Ad	Hunting	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
206	Non-breeding 2022-23	3	18/02/2023	1145	1	nr	50	40-50			Commuting	Commuting flight time not recorded = nr
207	Non-breeding 2022-23	3	05/03/2023	1316	1	45	85	80-90			Commuting	
208	Non-breeding 2022-23	3	05/03/2023	1439	1	37	70	60-80			Circling	
209	Non-breeding 2022-23	3	05/03/2023	1510	1	22	65	60-70			Commuting	
210	Non-breeding 2022-23	4	22/01/2023	1428	1	47	80	70-80			Circling	Circling
211	Non-breeding 2022-23	4	19/02/2023	1450	1	120	70	60-70			Commuting	Commute flight & hunting
212	Non-breeding 2022-23	4	06/03/2023	1317	1	215	30	30-40		Ad	Soaring	Drifting S.
213	Breeding 2023	2	06/03/2023	1433	1	60	75	50-100		Ad	Mobbed	Chased by RO.
214	Breeding 2023	2	25/03/2023	1347	1	30	80	70-80			Circling	
215	Breeding 2023	2	25/03/2023	1415	1	120	90	80-90			Circling	
216	Breeding 2023	2	25/03/2023	1457	1	360	120	100-120			Circling	
217	Breeding 2023	2	25/03/2023	1502	2	40	70	60-70			Commuting	2 BZ fly in over VP mobbed by rooks, one flies off while other perches in tree, perched bird flies off in different direction after a short time
218	Breeding 2023	2	25/03/2023	1502	1	13	50	40-50			Commuting	
219	Breeding 2023	2	25/03/2023	1502	1	14	40	50-60			Commuting	
220	Breeding 2023	2	25/03/2023	1542	1	40	90	80-90			Circling	
221	Breeding 2023	2	25/03/2023	1556	2	360	100	80-100			Circling	
222	Breeding 2023	2	25/03/2023	1556	2	44	130	120-130				
223	Breeding 2023	2	01/06/2023	1248	2	1,044	100	100-150	M+F	Ad	Soaring	Drift N
224	Breeding 2023	2	27/06/2023	0936	1	61	20	20-0	F	Ad	Circling	Circling over treeline
225	Breeding 2023	2	27/06/2023	1105	1	196	40	40-20			Hunting	Below treeline
226	Breeding 2023	2	27/06/2023	1116	1	71	30	30-20		Ad	Hunting	Hedgerow 20m from VP
227	Breeding 2023	2	27/06/2023	1145	1	108	20	20-0		Ad	Hunting	Mobbed by K, calling
228	Breeding 2023	2	27/06/2023	1229	1	114	40	40-20			Mobbed	Mobbed by K
229	Breeding 2023	2	27/06/2023	1317	1	210	80	80-25		Ad	Soaring	Above woodland dived quickly after arrival of BZ
230	Breeding 2023	2	27/06/2023	1318	1	73	30	30-25		Ad	Provisioning	Possibly provisioning
231	Breeding 2023	2	31/07/2023	1411	1	367	30	30-15		Ad	Hunting	
232	Breeding 2023	2	31/07/2023	1412	1	142	30	30-15		Ad	Hunting	
233	Breeding 2023	2	09/08/2023	1048	1	394	80	80			Soaring	Hunting towards NE
234	Breeding 2023	2	09/08/2023	1418	1	411	150	20-150		Ad	Soaring	Dived to treeline
235	Breeding 2023	2	09/08/2023	1541	1	179	80	80-15		Ad	Calling	Continuous calling heard call from second adult in large sycamore
236	Breeding 2023	3	06/03/2023	1036	2	1,508	80	80-100	M+F	Ad	Soaring	Drifting E.
237	Breeding 2023	3	01/06/2023	0853	1	92	30	30-40		Ad	Circling	
238	Breeding 2023	3	19/06/2023	1220	2	1,120	100	100-150	M+F	Ad	Soaring	Circling, drifting E

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
239	Breeding 2023	3	28/06/2023	1219	1	5	20	20-15		Ad	Flying	Alarm calling, appeared to be mobbing? In treeline
240	Breeding 2023	3	28/06/2023	1256	1	10	25	25		Ad	Flying	Perched in tree
241	Breeding 2023	3	28/06/2023	1431	1	14	20	30-15			Flying	Perched, probably non-breeding
242	Breeding 2023	3	28/06/2023	1445	1	264	30	30			Hunting	
243	Breeding 2023	3	18/07/2023	1352	1	288	100	100-15		Ad	Hunting	
244	Breeding 2023	3	18/07/2023	1413	1	293	100	100-15		Ad	Soaring	Behind treeline
245	Breeding 2023	3	18/07/2023	1419	1	179	100	100-20		Ad	Calling	Behind treeline
246	Breeding 2023	3	18/07/2023	1557	1	108	40	40-20			Hunting	Behind treeline
247	Breeding 2023	3	18/07/2023	1559	1	349	80	80-15	F	Ad	Soaring	Joined by #8 into treeline
248	Breeding 2023	3	18/07/2023	1601	1	121	100	100-15	M	Ad	Soaring	joined #7 into treeline
249	Breeding 2023	3	18/07/2023	1656	1	466	150	150-20			Hunting	Behind treeline
250	Breeding 2023	3	18/07/2023	1719	1	158	60	60-20			Hunting	Behind treeline
251	Breeding 2023	3	18/07/2023	1722	1	547	60	60-20			Hunting	Behind treeline
252	Breeding 2023	3	18/07/2023	1741	1	73	30	30-20			Hunting	To telephone pole
253	Breeding 2023	3	18/07/2023	1747	1	165	50	50-20			Hunting	Behind treeline
254	Breeding 2023	4	16/06/2023	0733	1	10	20	20			Flying	
255	Breeding 2023	4	16/06/2023	0854	1	5	15	15			Flying	
256	Breeding 2023	4	16/06/2023	0919	1	60	30	30			Hunting	
257	Breeding 2023	4	26/06/2023	1753	2	320	50	50			Soaring	
258	Breeding 2023	4	26/06/2023	1802	1	20	25	25			Flying	
259	Breeding 2023	4	26/06/2023	1811	2	120	25	25			Hunting	
260	Breeding 2023	4	26/06/2023	1826	2	60	20	20			Flying	Calling over woodland good breeding habitat
261	Breeding 2023	4	26/06/2023	1909	1	20	20	20			Flying	over woodland calling
262	Breeding 2023	4	10/08/2023	0852	1	2	5	5		Juv	Hunting	Behind hedgerow (fledged)
263	Breeding 2023	4	10/08/2023	0949	1	28	15	15-5		Juv	Mobbed	Mobbed by 6HC (fledged)
264	Breeding 2023	4	10/08/2023	1205	1	104	50	30-15			Soaring	Hunting
265	Breeding 2023	4	10/08/2023	1205	1	58	30	30-15			Soaring	
266	Breeding 2023	4	10/08/2023	1247	1	59	40	5-0		Juv	Flying	
267	Breeding 2023	4	20/09/2023	1701	1	548	200	150-200			Hunting	
268	Breeding 2023	4	29/04/2023	1642	1	72	40				Flying	
269	Breeding 2023	4	29/04/2023	1709	1	67	80				Flying	
270	Breeding 2023	4	30/04/2023	0947	1	27	60	60			Flying	
271	Breeding 2023	4	30/04/2023	1016	1	28	40	0-40			Flying	
272	Breeding 2023	2	29/04/2023	1106	1	720	10	10-10			Circling	
273	Breeding 2023	2	29/04/2023	1233	2	80	40				Circling	

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
274	Breeding 2023	2	29/04/2023	1256	1	32	65	60-70			Hunting	
275	Breeding 2023	2	29/04/2023	1310	1	40	60	60			Circling	
276	Breeding 2023	2	29/04/2023	1531	2	840	95	80-110			Circling	
277	Breeding 2023	1	23/04/2023	0724	1	124	90	80-100			Circling	
278	Breeding 2023	1	23/04/2023	1152	1	35	110	100-120			Circling	

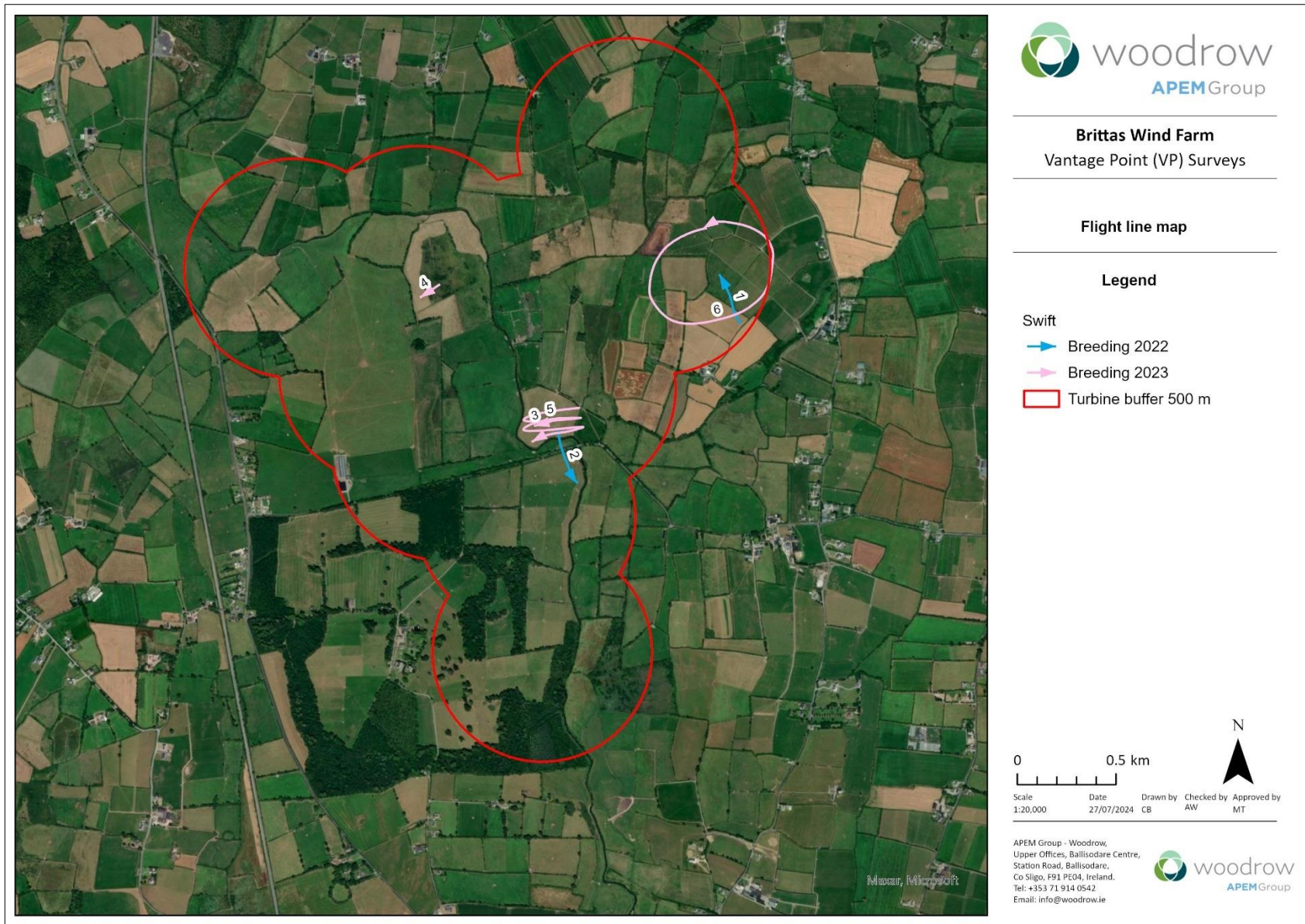


Figure 7E.38: Swift observations recorded during VP watches

Table 7E.27: Swift data collected during VP watches

	Aggregate seconds = flight/observation time x by the number of birds recorded
	Recorded within 500 m turbine buffer
	Recorded on boundary of 500 m turbine buffer – flight seconds will be clipped
	Recorded beyond 500 m turbine buffer or non-flight observation – time will be excluded from CRM

Map ID	Season	VP No	Date	Time	No. of birds	Aggregate seconds recorded	Height (m)	Flight range	Sex	Age	Behaviour	Comments
1	Breeding 2022	2	13/05/2022	1041	2	90	40	40			Foraging	
2	Breeding 2022	4	03/06/2022	1108	4	1,440	30	30-40		A	Flying	Moving north
3	Breeding 2023	4	16/06/2023	0733	3	45	25	25			Feeding	
4	Breeding 2023	4	16/06/2023	0738	2	40	10	10			Feeding	
5	Breeding 2023	4	16/06/2023	0900	25	180,000	25	5-25			Feeding	Small flock of swift feeding in front of VP for 1 hour then away
6	Breeding 2023	4	26/06/2023	1730	20	144,000	25	4-25			Feeding	