

Supporting Materials

Home range and migration of the Red-breasted Goose *Branta ruficollis*
mapped by satellite telemetry: implications for conservation

Table S1. Total numbers, quality of fixes and total of functioning days for each of the satellite tags (PTTs) fitted to Red-breasted Geese in this study.

PTT code	Location class distribution (%)				Total no. of fixes	Lifetime (days)	Tracking period	End cause
	3	2	1	0	A	B		
134138	2.4	9.3	22.6	32.5	10.5	22.7	12 Feb–15 Nov 2014	Not known
134139	7.1	13.6	12.8	15.3	13.6	37.5	12 Feb–17 Jun 2014	Not known
134855	25.3	19.8	14.6	5.9	10.2	24.2	20 Feb–23 Nov 2020	Not known
Mean	11.6	14.2	16.7	17.9	11.4	28.1		

Table S2. Number of stopover/staging areas, distance, and duration of the migration of one male and one female Red-breasted Goose fitted with satellite transmitters. * indicates staging areas.

Site name	Country	Type and site code of protected area	Distance between sites (km)	Period	Days spent at sites
Male goose with tag #134138					
Pre-nuptial migration 2014					
Departure from wintering grounds – Durankulak Lake	Bulgaria	SPA, BG0002050	n/a	12 March 2014	n/a
Druzhelyubivka, Syvash region	Ukraine	National protected area no. 555719461	579	12–17 March 2014	6
Manych-Gudilo Lake*	Russia	IBA, RU1165	685	18 Mar–1 Apr 2014	15
Altsynkhura*	Russia	not protected	170	1–8 April 2014	8
Aksu	Kazakhstan	not protected	1,041	9–15 April 2014	7
Zhylandy, Yavlenka*	Kazakhstan	IBA, KZ047; National protected area no. 62619	913	18 Apr–2 May 2014	15
Vozvyshenka*	Kazakhstan	not protected	163	2–15 May 2014	14
Uninhabited area in the Taiga*	Russia	not protected	1,116	18–25 May 2014	8
Druob'ye near Berezovo village	Russia	IBA, RU2004	238	26–29 May 2014	4
Druob'ye near Pitlyar village	Russia	IBA, RU2004	195	30 May–4 June 2014	6
Lower Ob*	Russia	IBA, RU2005	264	4–6 June 2014	8
Pura River Basin at Taymyr Peninsula	Russia	not protected	697	12–14 June 2014	2
Arrival at breeding grounds at Taymyr Peninsula – Pyasina Delta	Russia	not protected	298	16 June 2014	n/a
Total length of migration in km and days			6,359	97	

Table S2 (continued).

Site name	Country	Type and site code of protected area	Distance between sites (km)	Period	Days spent at sites
Male goose with tag #134138					
Post-nuptial migration 2014					
Departure from breeding grounds – Pyasina Delta	Russia	not protected	n/a	1 September 2014	n/a
Lower Ob	Russia	IBA, RU2005	1,055	4–6 Sept 2014	3
Leninskoe*	Kazakhstan	not protected	1,442	10–24 Sept 2014	15
Kulykol-Taldykol Lake System*	Kazakhstan	IBA, KZ036	300	26 Sept–25 Oct 2014	30
Beyneu (northeast coast of Caspian Sea)	Kazakhstan	not protected	1,000	25–26 October 2014	2
Arrival at wintering grounds – Small Island Complex of Braila	Romania	SPA, ROSPA0005	2,050	30 October 2014	n/a
Total length of migration in km and days			5,847	61	

Table S2 (continued).

Site name	Country	Type and site code of protected area	Distance between sites (km)	Period	Days spent at sites
Female goose with tag #134855					
Departure from the wintering grounds/ Small Island Complex of Braila	Romania	SPA, ROSPA0005	n/a	12 March 2020	n/a
Source of the Akshibai River near the village of Kiselevk	Russia	not protected	1,265	12–14 March 2020	2
Sarpinskaya Lake-system*	Russia	IBA, RU1246; National protected area no. 555710510	78	12–21 March 2020	8
Rybnyy Sakryl Lake	Kazakhstan	not protected	434	21–26 March 2020	4
Sarshyganak Lake	Kazakhstan	IBA, KZ003	40	26–31 March 2020	6
Lake near Qaratöbe	Kazakhstan	not protected	260	31 Mar–4 Apr 2020	4
Kulykol-Taldykol Lake System	Kazakhstan	IBA, KZ036	631	6–11 April 2020	6
near Lake Zhanshura	Kazakhstan	not protected	262	14–18 April 2020	5
Zolotaya niva near Kishi-Karoy*	Kazakhstan	not protected	366	18 Apr–24 May 2020	37
Vicinity of Munguy (Yenisei River delta)	Russia	not protected	1,933	26–28 May 2020	2
Arrival at breeding grounds on the Taymyr Peninsula – small river 25 km upstream from Yenisey Gulf shore	Russia	not protected	236	30 May 2020	n/a
Total length of migration in km and days			5,505	80	

Table S2 (continued).

Site name	Country	Type and site code of protected area	Distance between sites (km)	Period	Days spent at sites
Female goose with tag #134855					
Departure from breeding grounds on the Taymyr Peninsula – small river 25 km upstream from Yenisey Gulf shore Peninsula	Russia	not protected	n/a	2 September 2020	n/a
Oleniy Island and Yuratskaya Bay, Gydan	Russia	IBA, RU3001	145	4–9 Sept 2020	5
Gydan National Park, Gydan Peninsula	Russia	National protected area no. 555711796	20	9–18 Sept 2020	10
Gydan National Park, Gydan Peninsula	Russia	National protected area no. 555711796	30	18–25 Sept 2020	8
Zharkol Lakes*	Kazakhstan	IBA, KZ050	2,282	2–19 Oct 2020	18
Shalkaro-Zhetykol'ski Lake system*	Russia	IBA, RU1217	444	19–30 Oct 2020	12
Veselovskoye Reservoir	Russia	IBA, RU1140	1,512	04–16 Nov 2020	13
		National protected area no. 95389			
Arrival at wintering grounds – Sarinasuf fish farm, Danube Delta	Romania	SPA, ROSPA0031	987	20 Nov 2020	n/a
Total length of migration in km and days			5,420	80	