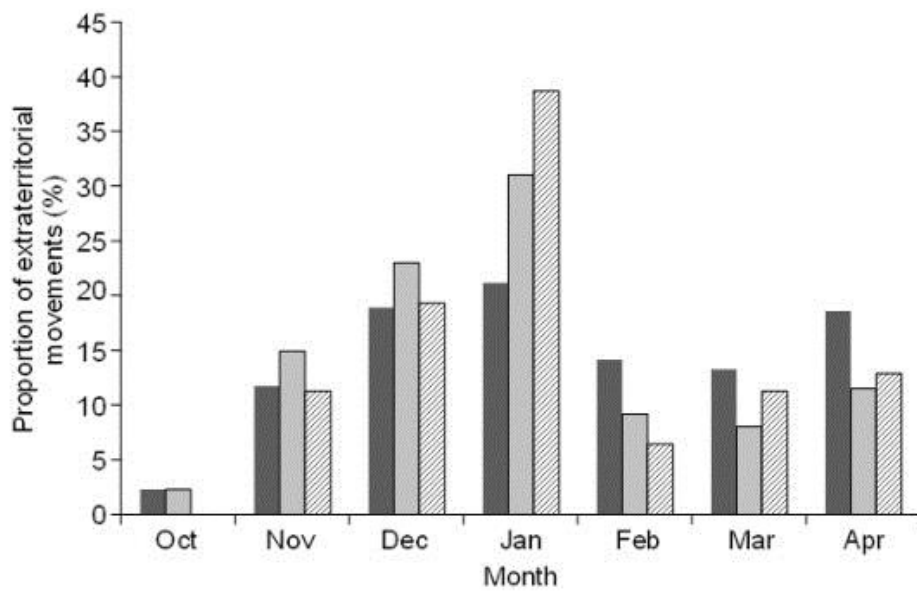


**Supplementary material for:** Rioux M.-J., Lai S., Casajus N., Bêty J. & Berteaux D. 2017. Winter home range fidelity and extraterritorial movements of Arctic fox pairs in the Canadian High Arctic. *Polar Research* 36. Contact: Dominique Berteaux, Canada Research Chair on Northern Biodiversity and Center for Northern Studies, Université du Québec à Rimouski, 300 allée des Ursulines, Rimouski, G5L 3A1 Quebec, Canada. Email: dominique\_berteaux@uqar.ca

**Supplementary Table S1.** Identity, monitoring period, and dispersal date of pair mates for 21 pair-years of Arctic foxes tracked in the Canadian High Arctic in 2007-2012.

Year	Pair ID	Male ID	Female ID	Monitoring period		Dispersal date	
				Male	Female	Male	Female
2007	A	161	131	25/10/07 – 30/04/08	25/10/07 – 30/04/09		
2007	B	122	125	25/10/07 – 28/02/08	25/10/07 – 30/04/09		
2007	C	166	168	25/10/07 – 30/04/08	25/10/07 – 30/04/09		
2008	C	166	168	25/10/08 – 03/01/09	25/10/08 – 07/01/09		
2008	D	144	3	25/10/08 – 30/04/09	25/10/08 – 25/02/09		
2008	E	215	217	25/10/08 – 30/04/09	25/10/08 – 12/01/09		02/12/08
2009	F	250	253	25/10/09 – 30/04/10	25/10/09 – 30/04/10		
2009	G	183	252	25/10/09 – 30/04/10	25/10/09 – 16/04/10		
2010	C	166	168	25/10/10 – 30/04/11	25/10/10 – 30/04/11	20/03/11	11/12/10
2010	F	250	253	25/10/10 – 30/04/11	25/10/10 – 30/04/11	17/03/11	
2010	H	263	273	25/10/10 – 30/04/11	25/10/10 – 30/04/11		
2010	I	278	277	25/10/10 – 30/04/11	25/10/10 – 30/04/11		
2010	J	283	255	25/10/10 – 30/04/11	25/10/10 – 30/04/11		06/03/11
2010	K	247	318	25/10/10 – 30/04/11	25/10/10 – 30/04/11		
2011	G	183	252	25/10/11 – 30/04/12	25/10/11 – 30/04/12		
2011	I	278	277	25/10/11 – 30/04/12	25/10/11 – 21/02/12		
2011	K	247	318	25/10/11 – 30/04/12	25/10/11 – 29/04/12		
2011	L	184	367	25/10/11 – 30/04/12	25/10/11 – 30/04/12		
2011	M	327	347	25/10/11 – 30/04/12	25/10/11 – 30/04/12		
2011	N	351	348	25/10/11 – 30/04/12	25/10/11 – 30/04/12	12/03/12	13/02/12
2011	O	344	352	25/10/11 – 14/02/12	25/10/11 – 30/04/12		



Monthly proportions of extraterritorial movements for:  
 ■ 42 fox-years

Monthly proportions of simultaneous extraterritorial movements for:  
 ■ 14 pair-years  
 ▨ the 8 pair-years that were more simultaneous than expected by chance (Table 2)

**Supplementary Fig. S1.** Proportion of extraterritorial movements of Arctic foxes according to winter month. Foxes were tracked in the Canadian High Arctic from 2007 to 2012.