

Supplementary Information for

Fission-fusion dynamics over large distances in raven non-breeders

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Table S1: General information about GPS-tagged non-breeding ravens (ID) trapped in Austria. All individuals were captured on different days. The data collection for most ravens already stopped before end of November 2016 due to (i) technical reasons (individuals were observed with the GPS logger but no data were transmitted), (ii) removal of the GPS-logger by the raven in one case and (iii) predation in another case.

ID	fledged in	sex	date of tagging	last GPS fix	# days with data	# GPS fixes	mean # of fixes per day
C8	2011+	f	20/04/2013	13/04/2016	600	3604	6.0
C5	2012	f	29/03/2013	07/10/2016	651	2784	4.3
C6	2012	f	14/04/2013	30/11/2016	1317	12753	9.7
C10	2013	f	01/09/2013	24/04/2014	233	1937	8.3
C21	2012+	m	16/11/2013	26/11/2016	1055	11483	10.9
C11	2012	m	03/09/2013	27/07/2016	932	7190	7.7
C12	2012	m	31/10/2013	20/05/2015	536	5106	9.5
C22	2012	m	15/11/2013	23/06/2014	221	2271	10.3
C9	2013	m	16/08/2013	23/01/2014	158	1469	9.3

Table S2: General information about GPS-tagged non-breeding ravens (ID) in France. Most individuals were captured on different days. The data collection for some ravens already stopped before end of November 2016 due to (i) technical reasons in one case (individuals were observed with the GPS logger but no data were transmitted), (ii) removal of the GPS-logger by the raven (n=3) and (iii) death through predation (n=1), illegal hunting (n=1) and unknown (n=1).

ID	fledged in	translocated [km]	date of tagging	last GPS fix	# days with data	# GPS fixes	mean # of fixes per day
f10.1	2015	0	31/08/2015	27/11/2015	89	1126	12.7
f10.2	2015+	0	30/11/2015	30/11/2016	367	4168	11.4
f24	2015	0	31/08/2015	30/11/2016	452	4658	10.3
f25	2014	0	09/09/2015	08/10/2016	396	4731	11.9
f29.2	2015	0	26/07/2016	30/11/2016	128	1524	11.9
f43	2016	0	24/09/2016	30/11/2016	68	842	12.4
f45	2016	0	24/09/2016	30/11/2016	68	858	12.6
fG12	2014	0	10/04/2015	29/11/2016	577	4600	8.0
fG16	2015	0	30/11/2015	30/11/2016	367	4619	12.6
fG17	2015	0	26/07/2016	30/11/2016	128	1608	12.6
f39	2015	24.8	31/10/2015	07/05/2016	190	2332	12.3
f23	2015	40	24/09/2015	30/11/2016	434	5448	12.6
f40.1	2015	62.5	31/10/2015	19/12/2015	50	583	11.7
f40.2	2015	62.5	06/01/2016	30/11/2016	330	4329	13.1
f26	2015	160	14/08/2015	20/11/2016	465	5377	11.6
f27	2014	160	03/08/2015	04/12/2015	123	1589	12.9
f29.1	2015	160	10/12/2015	07/05/2016	150	1848	12.3
f28	2015	240	01/09/2015	30/11/2016	457	5504	12.0

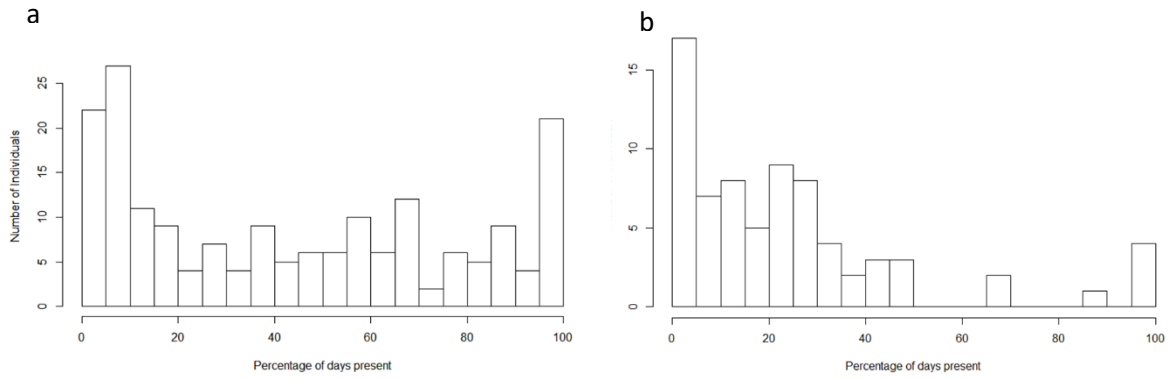


Figure S1: The histograms show for each marked raven the percentage of days observed between trapping and last observation at a) the Austrian study site (n=185 individuals) and b) the Italian study site (n=52 individuals).