

S1 Table. Satellite telemetry evaluations. List of publications evaluating satellite

telemetry, indicating whether success rates or failure rates (as defined in this study) are reported (1) or not (0). *For publications reporting only on stationary tests, the number of collars used in the study is listed; for publications reporting on animal-borne collars, the number of deployments is listed (if reported). **Fix quality may include measures of fix dimensionality (2D, 3D) and/or accuracy (dilution of precision, horizontal error, etc.).

Year	# of deployments or collars*	Stationary/animal-borne	Species	Region	Fix quality**	Fix acquisition rate	Data transfer rate	Overall fix success rate	Deployment failure rate	Technical failure rate	Reference
1995	6	ST/ AB	<i>Alces alces</i>	Ontario, Canada	1	1	0	0	0	0	(1)
1996	2	ST/ AB	<i>Alces alces</i>	northern Sweden	1	1	0	0	1	1	(2)
1996	1	ST/ AB	<i>Alces alces</i>	Minnesota, USA	1	1	0	0	0	0	(3)
1997	?	ST/ AB	<i>Alces alces</i>	Minnesota, USA	1	1	0	0	0	0	(4)
2000	5	AB	<i>Odocoileus virginianus</i>	Mississippi, USA	1	1	0	0	0	0	(5)
2001	10	AB	<i>Cervus elaphus nelsoni</i>	New Mexico, USA	0	1	1	1	1	1	(6)
2001	2	ST/ AB	<i>Loxodonta africana</i>	Congo	1	1	1	1	1	1	(7)
2002	26	AB	<i>Rangifer tarandus caribou</i>	British Columbia, Canada	1	1	1	1	1	1	(8)
2002	36	ST	---	British Columbia, Canada	1	1	0	0	0	0	(9)
2003	2	ST	---	USA	1	1	0	0	0	0	(10)
2004	81	AB	<i>Ursus arctos</i>	western and northern Canada	1	1	1	1	1	1	(11)
2004	1	AB	<i>Macaca fuscata</i>	Chiba Prefecture, Japan	1	1	0	0	1	1	(12)
2004	7	ST/ AB	<i>Cervus elaphus</i>	Cévennes, France	1	1	0	0	0	0	(13)
2005	?	ST	---	southwestern Arizona	1	1	0	0	0	0	(14)

Year	# of deployments or collars*	Stationary/animal-borne	Species	Region	Fix quality**	Fix acquisition rate	Data transfer rate	Overall fix success rate	Deployment failure rate	Technical failure rate	Reference
2005	5	ST	---	south-east British Columbia, Canada	1	1	0	0	0	0	(15)
2006	14	ST/ AB	<i>Ursus arctos</i>	Montana, USA	1	1	0	0	0	0	(16)
2006	1	ST/ AB	<i>Ursus arctos</i>	southeast Finland	1	1	1	1	0	0	(17)
2007	6	ST/ AB	<i>Canis lupus</i> , <i>Cervus elaphus</i>	Alberta, Canada	0	1	1	1	1	1	(18)
2007	10	ST/ AB	<i>Ursus americanus</i>	Idaho, USA	1	1	0	0	0	0	(19)
2007	7	ST/ AB	<i>Ursus americanus</i>	Olympic National Park, Washington, USA	1	1	1	1	0	0	(20)
2007	1	ST/ AB	<i>Canis familiaris</i>	southwest France	1	1	0	0	0	0	(21)
2008	8	ST	---	Oregon, USA	1	1	0	0	0	0	(22)
2008	21	ST/ AB	<i>Ursus arctos</i>	British Columbia, Canada	0	1	0	0	0	0	(23)
2009	5	ST	---	Michigan, USA	1	1	0	0	0	0	(24)
2009	15	AB	<i>Ovis gmelini</i> <i>musimon x Ovis</i> <i>sp.</i>	France	0	1	0	0	1	0	(25)
2009	23	AB	<i>Odocoileus</i> <i>virginianus</i>	Minnesota, USA	0	1	0	0	1	1	(26)
2009	39	AB	<i>Ursus arctos</i> ; <i>U.</i> <i>americanus</i>	Wyoming, USA	0	1	1	1	1	1	(27)
2010	42	ST/ AB	<i>Trichosurus</i> <i>vulpecula</i>)	Waikato, New Zealand	1	1	0	0	1	1	(28)
2010	9	ST/ AB	<i>Trichosurus</i> <i>vulpecula</i>	North Island, New Zealand	1	1	0	0	0	0	(29)
2010	104	AB	<i>Canis lupus</i> , <i>Equus hemionus</i> , <i>Equus ferus</i> <i>przewalski</i> , <i>Procapra</i> <i>gutturosa</i> , <i>Camelus ferus</i>	Mongolia	0	1	1	1	1	1	(30)
2010	48	AB	<i>Gulo gulo</i> , <i>Lynx</i> <i>lynx</i>	Northen Sweden	1	1	0	0	1	1	(31)

Year	# of deployments or collars*	Stationary/animal-borne	Species	Region	Fix quality**	Fix acquisition rate	Data transfer rate	Overall fix success rate	Deployment failure rate	Technical failure rate	Reference
2010	21	AB	<i>Cervus nippon</i>	Shiranuka Hills, Japan	1	1	0	0	1	1	(32)
2011	43	ST/ AB	<i>Felis catus</i>	South Island, New Zealand	1	1	0	0	0	0	(33)
2012	1	AB	<i>Papio hamadryas ursinus</i>	Western Cape, South Africa	1	1	0	0	1	1	(34)
2012	6	ST/ AB	<i>Lutra lutra</i>	Southern Portugal	1	1	1	1	1	1	(35)
2012	20	ST/ AB	<i>Cervus elaphus</i>	Germany	1	1	0	0	0	0	(36)
2012	11	ST	---	central New York State, USA	1	1	0	0	0	0	(37)
2013	3	ST	---	Dunedin, New Zealand	1	1	0	0	0	0	(38)
2013	18	ST/ AB	<i>Erinaceus europaeus</i>	UK	1	1	0	0	0	0	(39)
2013	4	AB	<i>Lynx lynx</i>	Dinaric alps	0	1	0	0	0	0	(40)
2013	280	AB	<i>Petrogale lateralis, Canis lupus dingo, Felis catus, Vulpes vulpes, Phascolarctos cinereus, Canis familiaris, Thylogale billardierii, Macropus rufogriseus rufogriseus, Trichosurus cunninghami, Dasyurus maculatus, Dasyurus geoffroii, Macropus giganteus, Vombatus ursinus</i>	Australia	1	1	1	1	0	1	(41)
2014	39	AB	<i>Urocyon littoralis</i>	Northwestern USA	1	1	1	1	1	1	(42)
2015	40	ST/ AB	<i>Canis familiaris</i>	Northeastern France	1	1	0	0	0	0	(43)
2015	59	AB	<i>Bison bison</i>	Yukon, Canada	1	1	0	0	1	1	(44)

Year	# of deployments or collars*	Stationary/animal-borne	Species	Region	Fix quality**	Fix acquisition rate	Data transfer rate	Overall fix success rate	Deployment failure rate	Technical failure rate	Reference
2015	56	ST/ AB	<i>Martes caurina</i>	California, USA	1	1	0	0	1	1	(45)
2016	35	AB	<i>Felis catus</i>	Australia	0	1	0	0	1	0	(46)
2017	23	ST/ AB	<i>Coragyps atratus</i> ; <i>Cathartes aura</i>	Aiken, South Carolina, USA	1	1	0	0	1	1	(47)
2016	2	AB	<i>Tapirus terrestris</i>	Middle Caquetá river basin, Colombia	1	1	1	1	1	1	(48)
2016	1	AB	<i>Tayassu pecari</i>	Toledo, Belize	0	1	1	1	0	0	(49)
2017	30	ST/ AB	<i>Brachylagus idahoensis</i>	Lemhi Valley in east-central Idaho, USA	1	1	1	1	1	1	(50)
Total	1228				40	50	15	15	23	22	
%					80	100	30	30	46	44	

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