

Appendix 1. List of completed and ongoing studies which have estimated snow leopard populations using camera trapping and fecal genetics¹

Country	Location	Area (km ²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km ²)	Reference	Remarks
Bhutan	Upper Chamkar Chu, Wangchuck Centennial Park	797			Camera-trapping	9	9	2.39	Shrestha et al 2013	Not available
China	Qinghai				Genetic analysis	1			Janecka et al. 2008	Peer reviewed
China	Tomur		November	December	Genetic analysis	9			McCarthy et al. 2008	Peer reviewed
China	Tomur	813	23 Oct 2005	20 Dec 2005	Camera trapping	4	6	0.74	McCarthy et al. 2008	Peer reviewed
China (Gansu)	Qilianshan NR	480	Jan 2013	Apr 2013	Camera Trapping	4			Shi et al, in prep	Not yet available
China (Gansu)	Qilianshan NR	67	Jul 2012	Sep 2012	Camera Trapping	3			Shi et al, in prep	Not yet available
China (Gansu)	Qilianshan NR	67	Feb 2012	Apr 2012	Camera Trapping	5			Shi et al, in prep	Not yet available
China (Qinghai)	Akesai	50-75	2009	2009	Genetic analysis	5			Janecka et al. 2009	SLN report
China (Qinghai)	Akesai	125-175	2009	2009	Genetic analysis	14			Janecka et al. 2009	SLN report
China (Qinghai)	Nangqian	25-50	2009	2009	Genetic analysis	3			Janecka et al. 2009	SLN report
China (Qinghai)	Zhiduo	25-50	2009	2009	Genetic analysis	1			Janecka et al. 2009	SLN report
Country	Location	Area (km ²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km ²)	Reference	Remarks
China (Qinghai)	Zhiduo	25-50	2007	2007	Genetic analysis	2			Janecka et al. 2009	SLN report

China (Qinghai)	Tainjun	25-50	2007	2007	Genetic analysis	3			Janecka et al. 2009	SLN report
China (Qinghai)	Dulan	75-100	2007	2007	Genetic analysis	3			Janecka et al. 2009	SLN report
China (Quighai)	Suojia		10 May 2011	18 Jul 2011	Camera trapping	29	41	3.1	Li, J (2012)	Thesis
China (Sichuan)	Wolong NR	44	Feb 2010	Apr 2010	Camera Trapping	2			Shi et al, in prep	Not yet available
China (Sichuan)	Luoxu NR	86	Mar 2010	Apr 2010	Camera Trapping	1			Shi et al, in prep	Not yet available
China (Tibet)	Shenzha	25-50	2008	2008	Genetic analysis	4			Janecka et al. 2009	SLN report
China (Tibet)	Jiduo	25-50	2008	2008	Genetic analysis	2			Janecka et al. 2009	SLN report
China (Xinjiang)	Taxkurgan NR		01 Feb 2009	01 Mar 2009	Camera trapping	1			Riordan et al. 2010	SLN report
China (Xinjiang)	Taxkurgan NR	117	Feb 2013	Apr 2013	Camera Trapping	4			Shi et al, in prep	Not yet available
China (Xinjiang)	Taxkurgan NR	79	Feb 2012	Apr 2012	Camera Trapping	4			Shi et al, in prep	Not yet available
China (Xinjiang)	Taxkurgan NR	49	Feb 2011	Apr 2011	Camera Trapping	3			Shi et al, in prep	Not yet available
India	Hemis National Park	135	15 Jan 2004	24 Mar 2004	Camera trapping	6	6	4.45	Jackson et al. 2006	Peer reviewed
Country	Location	Area (km²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km²)	Reference	Remarks
India	Hemis National Park	71	21 Jan 2003	25 Mar 2003	Camera trapping	6	6	8.49	Jackson et al. 2006	Peer reviewed
India	Ladakh				Genetic analysis	4			Janecka et al. 2008	Peer reviewed
India	Spiti valley	686	03 Oct 2011	20 Jan 2012	Camera trapping	15			Sharma et al. in prep	Not available

India	Spiti valley	70	01 Jul 2009	30 Jul 2009	Camera trapping	5		0.68	Sharma et al. 2009	SLN report
India	Khangchendzonga NP- Prek chu Catchment	102			Camera-trapping	4		3.88	Satyakumar et al. (Unpublished results)	Not available
India	Gya	300	01 Jun 2010	01 Dec 2010	Genetic analysis	4	5	1.66	Suryawanshi 2013	Not available
India	Lossar	219	01 Jun 2010	01 Dec 2010	Genetic analysis	1	1	0.45	Suryawanshi 2013	Not available
India	Pin	270	01 Jun 2010	01 Dec 2010	Genetic analysis	2	2	0.74	Suryawanshi 2013	Not available
India	Tabo	341	01 Jun 2010	01 Dec 2010	Genetic analysis	4	4	1.17	Suryawanshi 2013	Not available
India	Kibber	411	01 Jun 2010	01 Dec 2010	Genetic analysis	7	8	1.94	Suryawanshi 2013	SLN report
India	Lingti	240	01 Jun 2010	01 Dec 2010	Genetic analysis	7	8	3.3	Suryawanshi 2013	SLN report
Kyrgyzstan	SaryChat	1340	Jun 2009	Nov 2009	Camera-trapping	18	18	1.38	Jumabay et al. 2013	Not available
Kyrgyzstan	Jangart		August	September	Genetic analysis	5			McCarthy et al. 2008	Peer reviewed
Country	Location	Area (km²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km²)	Reference	Remarks
Kyrgyzstan	SaryChat		May	June	Genetic analysis	3			McCarthy et al. 2008	Peer reviewed
Kyrgyzstan	Jangart	808	03 Aug 2005	20 Sep 2005	Camera trapping	5	7	0.87	McCarthy et al. 2008	Peer reviewed
Kyrgyzstan	SaryChat	655	28 May 2005	15 Jul 2005	Camera trapping	1	1	0.15	McCarthy et al. 2008	Peer reviewed
Mongolia	Tost Uul	264	12 May 2007	16 Jul 2007	Camera trapping	4	4	1.52	Jackson et al. 2009	Peer reviewed
Mongolia	South Gobi	90			Genetic analysis	5			Janecka et al. 2008	Peer reviewed

Mongolia	Noyon	155.5	08 Mar 2007	16 Mar 2007	Genetic analysis	6			Janecka et al. 2011	Peer reviewed
Mongolia	Tost Uul B	59.8	08 Mar 2007	16 Mar 2007	Genetic analysis	4			Janecka et al. 2011	Peer reviewed
Mongolia	Tost Uul A	108	08 Mar 2007	16 Mar 2007	Genetic analysis	5			Janecka et al. 2011	Peer reviewed
Mongolia	Tost Uul	1300	19 Jun 2009	19 Jun 2009	Camera trapping	9	10	0.77	Mccarthy et al. 2010	Peer reviewed
Mongolia	Gurvansaikhan NP, Bogd, Tost, Jargalant, Turgen SPA, Tsagaan Shuvuut SPA	n/a	01 Feb 2010	01 Nov 2010	Genetic analysis	57			Galsandorj et al. 2011	SLN report
Mongolia	Tost Uul	1680	16 Jun 2012	16 Aug 2012	Camera trapping	13	14	0.83	Sharma et al. in prep	Not available
Country	Location	Area (km²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km²)	Reference	Remarks
Mongolia	Tost Uul	1680	02 Jul 2011	02 Sep 2011	Camera trapping	11	12	0.71	Sharma et al. in prep	Not available
Mongolia	Tost Uul	1680	27 Jun 2010	27 Aug 2010	Camera trapping	13	14	0.83	Sharma et al. in prep	Not available
Nepal	Rolwaling		2011	2011	Genetic analysis	4			Karmacharya et al. 2012	SLN report
Nepal	Mustang region		2011	2011	Genetic analysis	10			Karmacharya et al. 2012	SLN report
Nepal	Annapurna Conservation Area	105	01 Apr 1990	01 May 1990	Pug-mark and radio collar	5	5-7	4.8-6.7	Oli et al. 1994	Peer reviewed
Nepal	Phu Valley	100	Jan 2004	May 2004	Genetics	6			Wegge et al. 2012	Peer-reviewed
Pakistan	Shigar Valley				Genetics	19			Anwar et. al. 2011	

Tajikistan	Zorkul Strict NR	<200	Jul 2011	Sep 2011	Camera trapping	4	-	-	Mallon and Diment 2014	Report
Tajikistan	Ravmeddara (Bartang valley)	<500	Oct 2011	Apr 2012	Camera trapping	6	-	-	Alidodov and Karimov 2012	Report
Tajikistan	Darshaydara (Wakhan)	<500	May 2013	Aug 2013	Camera trapping	6	-	-	Alidodov and Rosen Michel. 2013	Report

Country	Location	Area (km ²)	Start date	End date	Survey method	Minimum number	Estimate	Density per (km ²)	Reference	Remarks
Tajikistan	Zong (Wakhan)	<500	May 2013	Aug 2013	Camera trapping	1	-	-	Alidodov and Rosen Michel 2013	Report
Tajikistan	Jarty Gumbez (Murghab hunting concession), E Pamirs	1000	Jun 2012	Oct 2012	Camera trapping and genetics	19 23	-	0.87 – 2.85	Kachel 2014	MA thesis
Tajikistan	Pshart and Madiyan valleys, E Pamirs	1000	Jun 2012	Oct 2012	Camera trapping and genetics	6 16	-	0.32 – 1.62	Kachel 2014	MA thesis
Tajikistan	Zighar conservancy, Darvaz Range	40	Jan 2013	Mar 2013	Camera trapping	6	8	-	Rosen Michel pers. comm. 2014	internal data Panthera
Tajikistan	Alichur conservancy	<900	Jul 2014	Sep 2014	Camera trapping	3	-	-	Rosen Michel pers. comm. 2014	internal data Panthera
Tajikistan	Hissar Range	750	Jun 2014	Aug 2014	Camera trapping	3	-	-	Karimov and Amirov 2014	Report

Uzbekistan	Hissar Strict NR	<400	Dec 2013	Aug 2014	Camera trapping	2	-	-	T. Rosen Michel pers. comm. 2014	internal data Panthera & Gosbiocontrol Uzbekistan
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¹ With the exception of radio-telemetry and some camera trap surveys, the estimated area surveyed should be treated with due caution, especially in the case of genetic surveys. These are primarily based primarily upon linear transects and which typically lack well-defined sampling periods. Since DNA tends to degrade relatively slowly under the dry, cold conditions prevailing in much of the snow leopard's range, such studies are likely to include samples from individuals that are no longer living or present within the area of collection.