

5 September 2011

Plateau Perspectives Canada has been working with Tibetan herding communities in the headwaters of the Yangtze River (Zhiduo County, Yushu Tibetan Autonomous Prefecture, Qinghai Province) since 1998. Our long-term partnership with local people and communities has assisted the establishment of several community-based environmental organizations, such as the Upper Yangtze Organization, as well as the development (capacity building) of several of the Sanjiangyuan National Nature Reserve's field stations.

Collaborative management (in the form of community co-management, contract conservation, etc.) now generally is accepted as the best way forward for conservation in the extensive grasslands and mountain areas of the nature reserve – and, in light of this, Plateau Perspectives is working closely with government and non-government partners to trial/develop the effective ways of collaborating with local Tibetan communities, to conserve wildlife such as the rare and endangered Snow Leopard, *Uncia uncia*.

Attached are "fact sheets" for each Snow Leopard event or encounter with camera traps in 2010. Based on the identification of individual snow leopards (see Table 1), we have directly observed between 7 and 9 individuals (certain individuals could not be identified from the pictures, though their presence has been established). The mountain region surveyed is around 150-200 km2.

The information contained in this report will subsequently be compared to wildlife observations made by community wardens (wildlife monitors) in the same geographic area since around 2007, which are expected to be complementary in the information provided.

In closing, many thanks are due to everyone who has been involved in this work – and we wish many more fruitful years of partnerships, for the conservation of Snow Leopard and their rugged mountain environments.

Sincerely,

March

Dr J Marc Foggin Director, Plateau Perspectives





SL Camera Trap Event 001

3 January 2010 02:44 AM Camera setup on 31 December 2010 **Location 'B'** 34° 09.274 N 93° 52.534 E Tseren Range, near Shiamba's home 4,873 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.

Location of Camera Trap:





(Camera trap PP-002)

SL Camera Trap Event 002

6 January 2010 07:52 PM Camera setup on 31 December 2010 (Camera trap PP-003) **Location 'C'** 34° 09.090 N 93° 55.076 E Tseren Range, up toward Muqu School 4,824 m a.s.l.





All photographs © Plateau Perspectives / J Marc Foggin 2011.

With special thanks to community partners and SNNR colleagues.







SL Camera Trap Event 003

8 January 2010 04:44 AM Camera setup on 31 December 2010 **Location 'B'** 34° 09.274 N Tseren Range, near Shiamba's home







All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.







SL Camera Trap Event 004 12 January 2010 11:22 AM

Camera setup on 2 January 2010

(Camera trap PP-010) Location 'K' 34° 12.898 N 94° 04.662 E Bemenge Range, mid valley, from cave 4,642 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.







SL Camera Trap Event 005

28 January 2010 04:16 AM Camera setup on 27 January 2010 **Location 'J'** 34° 13.733 N 94° 05.373 E Bemenge Range, farthest down valley 4,612 m a.s.l.

(Camera trap PP-009)



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 006

30 January 2010 02:57 AM Camera setup on 27 January 2010 (Camera trap PP-003) **Location 'C'** 34° 09.090 N 93° 55.076 E Tseren Range, up toward Muqu School 4,824 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 007

31 January 2010 06:27 PM Camera setup on 30 January 2010
 (Camera trap PP-002)

 Location 'B'
 34° 09.274 N
 93° 52.534 E

 Tseren Range, near Shiamba's home
 4,873 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 008

8 February 2010 07:54 PM Camera setup on 29 January 2010 (Camera trap PP-006) **Location 'G'** 34° 04.211 N 94° 02.145 E Wugeu Reiju Range, behind Gama's home 4,882 m a.s.l.





All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 00911 March 201011:48 PMCamera setup on 8 March 2010

(Camera trap PP-011ir) Location 'L' 34° 12.803 N 94° 04.063 E Bemenge Range, through side canyon 4,668 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 010

13 March 2010 00:26 AM Camera setup on 8 March 2010
 (Camera trap PP-001)

 Location 'A'
 34° 09.320 N
 93° 52.080 E

 Tseren Range, behind Shiamba's home
 4,790 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 01113 March 201011:02 PMCamera setup on 9 March 2010

(Camera trap PP-006) **Location 'G'** 34° 04.211 N 94° 02.145 E Wugeu Reiju Range, behind Gama's home 4,882 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011.

With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 011b[continued](Camera trap PP-006)13 March 201011:02 PMLocation 'G'34° 04.211 N94° 02.145 ECamera setup on 9 March 2010Wugeu Reiju Range, behind Gama's home4,882 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.



SL Camera Trap Event 01217 March 201010:08 PMCamera setup on 8 March 2010

Location 'B' 34° 09.274 N Tseren Range, near Shiamba's home

(Camera trap PP-002) 93° 52.534 E 4,873 m a.s.l.











All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.

SL Camera Trap Event 013

8 April 2010 01:37 AM Camera setup on 8 April 2010

(Camera trap PP-009) Location 'J' 34° 13.733 N 94° 05.373 E Bemenge Range, farthest site down valley 4,612 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.







SL Camera Trap Event 014

10 April 2010 06:26 PM Camera setup on 8 April 2010 (Camera trap PP-009) Location 'J' 34° 13.733 N 94° 05.373 E Bemenge Range, farthest site down valley 4,612 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 015

11 April 2010 05:51 AM Camera setup on 8 April 2010

Location 'J' 94° 05.373 E 34° 13.733 N Bemenge Range, farthest down valley 4,612 m a.s.l.



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(Camera trap PP-009)

SL Camera Trap Event 016

11 April 2010 06:00 PM Camera setup on 8 April 2010 (Camera trap PP-001) Location 'A' 34° 09.320 N 93° 52.080 E Tseren Range, behind Shiamba's home 4,790 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 017

15 April 2010 02:40 PM Camera setup on 8 April 2010

Location 'B' 34° 09.274 N Tseren Range, near Shiamba's home





With special thanks to community partners and SNNR colleagues.







SL Camera Trap Event 018

20 April 2010 11:20 AM Camera setup on 8 April 2010 (Camera trap PP-002) **Location 'B'** 34° 09.274 N 93° 52.534 E Tseren Range, near Shiamba's home 4,873 m a.s.l.



Location of Camera Trap:



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SL Camera Trap Event 01929 August 201006:05 PMCamera setup on 23 August 2010

(Camera trap PP-006) Location 'N' 34° 09.301 N 93° 57.290 E opposite river, above Muqu School 4,923 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 020 1 September 2010 08:52 AM Camera setup on 25 August 2010

Location 'Q' 34° 11.700 I in range going toward 'lost valley'

(Camera trap PP-002) 34° 11.700 N 93° 58.082 E 'lost valley' 4,960 m a.s.l.



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





SL Camera Trap Event 0	(Camera trap PP-006)					
1 September 2010	11:15 AM	Location 'N'	34° 09.301 N	93° 57.290 E		
Camera setup on 23 August	2010	opposite river, abo	4,923 m a.s.l.			



All photographs © Plateau Perspectives / J Marc Foggin 2011. With special thanks to community partners and SNNR colleagues.





Gongbo	Snow Leopard names (tentative):		[not clearly marked]	[not clearly marked]	[not clearly marked]	[not clearly marked]	Right flank pattern	Pattern on back of neck	Left flank pattern	Right ear ripped	Front right leg (two triangles)	Front left shoulder (three dots)	Front right leg (outer pattern)	Left hind leg (pentagon, w/ triangle)	Front left leg (six spots)	Right hind leg	Tail pattern (other)	Tail pattern (double central small patches)	
ьо	pard na															See 020		See 006	SL Event # 001
	mes (te															See 018			SL Event # 002
Tashi	ntative)													See 012, 016, 017	See 010, 016, 020			See 005, 006, 012	SL Event # 003
												See 007, 010, 014	See 014						SL Event # 004
Ngaya																		See 003, 006, 012	SL Event # 005
уа													See 007					See 001 See 003, 005, 012	SL Event # 006
					Young #2	Young #1					See 010, 014	See 004, 010, 014	See 006						SL Event # 007 (3)
Yisong			3rd SL in photo	Likely same				See 011											SL Event # 008 <mark>(3)</mark>
	-																Single small dot		SL Event # 009
Jić											See 007, 014	See 004, 007, 014			See 003, 016, 020				SL Event # 010
Jigme				Likely same				See 008						1 of 2 SL (maybe)	1 of 2 SL				SL Event # 011 (<mark>2</mark>)
									See 016, 020	See 020				See 003, 016, 017				See 003, 005, 006	SL Event # 012
Laba																	Single small dot		SL Event # 013
											See 007, 010	See 004, 007, 010	See 004						SL Event # 014
-																	Double small dot		SL Event # 015
Renzin									See 012, 020					See 003, 012, 017	See 003, 010, 020				SL Event # 016
														See 003, 012, 016					SL Event # 017
Dundrup																See 002			SL Event # 018
trup							See 021												SL Event # 019
									See 012, 016	See 012					See003, 010, 016	See 001			SL Event # 020
Dorje							See 019												SL Event # 021

Figure 2. Specific markings use for identification purposes (see Table 1).



B. Tail pattern (other features)









D. Front left leg (six spots)



E. Left hind leg (pentagon, triangle)





G. Front left shoulder (three dots, triangle)

F. Front right leg

H. Front right leg (two triangles)



I. Right ear ripped

J. Left flank

K. Pattern on back of neck

L. Right flank









Figure 3. Map of movements made by 'Gongbo' (see Table 1).



snow leopard traveled a full return-trip twice (i.e., between the western and eastern portions of its homerange; as estimated above), and then was photographed again in the central portion in September 2011. Note: Based on the 'minimum convex polygon' above, this snow leopard has an estimated home range area of approximately 75 km². Between January and April 2010, this

Appendix 1. Plateau Perspectives trip report, December 2009 – January 2010

SNOW LEOPARD SURVEY & CONSERVATION PLANNING LOCATION OF CAMERA TRAPS, SETUP IN DECEMBER 2009

Plateau Perspectives team:

Dr J Marc Foggin Prof Gongbu Zhaxi (Gongbo Tashi) and **Mr Qingmei Rangding** (Jigme Rabden) together with **Mr Renzin** / SNNR Suojia Station







Removable 7.2 MegaPixel Sony Digital Camera

Camera Cable Motion Control Electronics

User DIP Switch

Adjust Motion Sensitivity

Unit 9V Battery Power On/Off Unit Instructions



Snow Leopard research and conservation: Regional overview of study area



Snow Leopard research and conservation: Detailed view of study area





Tseren range

Wugeu Reiju range

Bemenge range



Two camera trap sites monitored by Shiamba Chumpei in the Tseren mountain range

Location A N 34° 09.320' 4,790 m E 93° 52.080'













Two camera trap sites monitored by Datse in the *Tseren* mountain range





Two camera trap sites monitored by Baden Yishi in the Wugeu Reiju mountain range

Location E N 34° 04.861' 4,894 m E 93° 57.196' Location F N 34° 04.038' 4,832 m E 93° 56.781'











Two camera trap sites monitored by Gama in the Wugeu Reiju mountain range

Location G N 34° 04.211' 4,882 m E 94° 02.145' **Location H** N 34° 04.438' 4,828 m E 94° 02.200'











Two camera trap sites monitored by Chayi & Luo Tseren in the Bemenge mountain range

Location I N 34° 12.116' 4,653 m E 94° 04.104' Location J N 34° 13.733' 4,612 m E 94° 05.373'











Two camera trap sites monitored by Chayi & Luo Tseren in the Bemenge mountain range

 Location K
 N 34° 12.898'

 4,642 m
 N 34° 12.892'

 Location L
 N 34° 12.803'

 4,668 m
 E 94° 04.063'



Tseren

"Many small side valleys"

(camera locations # A - D)



Tsamre Jiayi "The hermit's white mountain" (camera location E)

> *Zhe Zhusong* "White cliffs" (camera location F)



The entire mountain range between Wugulamei Pass and Muqu School: Wugeu Reiju





Bengen Chengnga "Old monk's prayer beads" (camera location G and H)

Bemenge (bottom-left & below) (camera locations I - L)

Lhadre Rayon (see trap picture, above) "God and Devil's Fighting Cave" (camera location L)





Team 1: Jigme Rabden, Renzin, Shiamba Chumpei, Tarshin, and Gongbo Tashi (also Marc Foggin, not in photograph)

Team 2: Jigme Rabden, Nanka, Marc Foggin, Baden Yishi, and Gongbo Tashi





Team 3: Jigme Rabden, Gama, Gongbo Tashi, and Baden Yishi (also Marc Foggin)

Team 4: Gongbo Tashi, participant from Cuochitan (Dangqu cun), and Gama (also Marc Foggin, Jigme Rabden, and Renzin)

