

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,

Dr J Marc Foggin

Marciti

Director, Plateau Perspectives



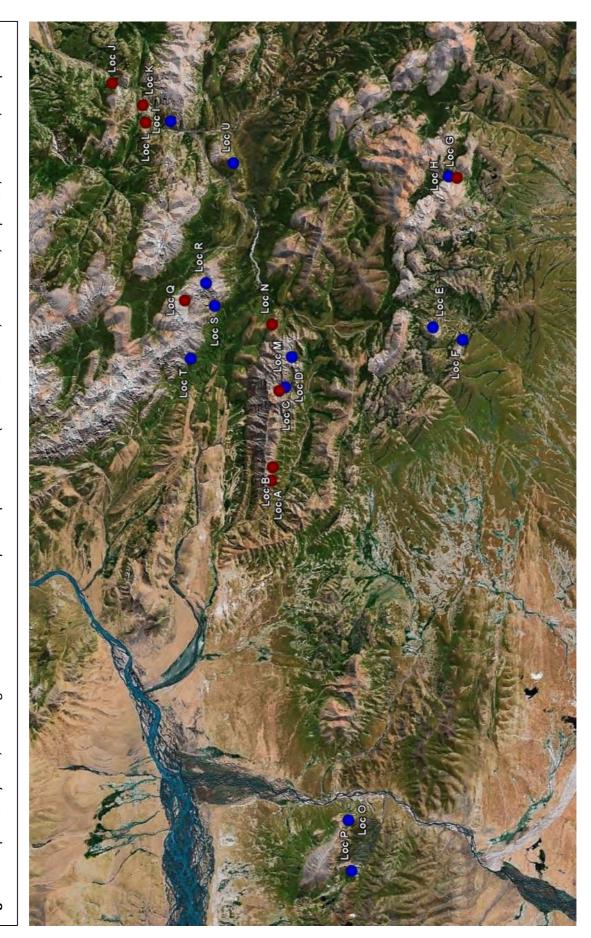


Figure 1. Map of study area, including location of camera traps set up in 2009-10 (with location IDs; blue circles, no photos; red circles, with photos.

**SL Camera Trap Event 001** 

(Camera trap PP-002)

**3 January 2010** 

02:44 AM

Location 'B'

34° 09.274 N

93° 52.534 E

Camera setup on 31 December 2010

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 002** 

(Camera trap PP-003)

**6 January 2010** 07:52 PM

**Location 'C'** 34° 09.090 N Tseren Range, up toward Muqu School 93° 55.076 E 4,824 m a.s.l.

Camera setup on 31 December 2010





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







**SL Camera Trap Event 003** 

(Camera trap PP-002)

**8 January 2010** 04:44 AM Camera setup on 31 December 2010

**Location 'B'** 34° 09.274 N Tseren Range, near Shiamba's home 93° 52.534 E 4,873 m a.s.l.









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**SL Camera Trap Event 004** 

(Camera trap PP-010)

**12 January 2010** 11:22 AM

Location 'K'

34° 12.898 N

94° 04.662 E

Camera setup on 2 January 2010

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** 

(Camera trap PP-009)

**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.



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







**SL Camera Trap Event 006** 

(Camera trap PP-003)

**30 January 2010** 02:57 AM

**Location 'C'** 34° 09.090 N

93° 55.076 E

Camera setup on 27 January 2010

Tseren Range, up toward Muqu School 4,824 m a.s.l.









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**SL Camera Trap Event 007** 

(Camera trap PP-002)

**31 January 2010** 06:27 PM Camera setup on 30 January 2010

**Location 'B'** 34° 09.274 N

93° 52.534 E

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



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**SL Camera Trap Event 008** 

(Camera trap PP-006)

**8 February 2010** 07:54 PM Camera setup on 29 January 2010 Location 'G' 34° 04.211 N 94° 02.145 E

Wugeu Reiju Range, behind Gama's home 4,882 m a.s.l.





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**SL Camera Trap Event 009** 

(Camera trap PP-011ir)

**11 March 2010** 11:

11:48 PM

**Location 'L'** 34° 12.803 N

94° 04.063 E

Camera setup on 8 March 2010

Bemenge Range, through side canyon 4,668 m a.s.l.



Location of Camera Trap:

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



**SL Camera Trap Event 010** 

(Camera trap PP-001)

93° 52.080 E

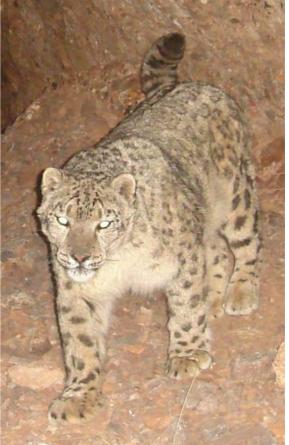
4,790 m a.s.l.

**13 March 2010** 00:26 AM Camera setup on 8 March 2010

**Location 'A'** 34° 09.320 N Tseren Range, behind Shiamba's home







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





**SL Camera Trap Event 011** 

(Camera trap PP-006)

**13 March 2010** 11:02 PM Camera setup on 9 March 2010

**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 2010

11:02 PM

**Location 'G'** 34° 04.211 N

94° 02.145 E

Camera setup on 9 March 2010

Wugeu Reiju Range, behind Gama's home 4,882 m a.s.l.











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**SL Camera Trap Event 012** 

(Camera trap PP-002)

**17 March 2010** 10:08 PM Camera setup on 8 March 2010

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

93° 52.534 E 4,873 m a.s.l.









Location of Camera Trap:







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

**SL Camera Trap Event 013** 

Camera setup on 8 April 2010

(Camera trap PP-009)

8 April 2010

01:37 AM

Bemenge Range, farthest site down valley 4,612 m a.s.l.

Location 'J'

94° 05.373 E

34° 13.733 N



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**SL Camera Trap Event 014** 

(Camera trap PP-009)

10 April 2010

06:26 PM

Location 'J'

34° 13.733 N

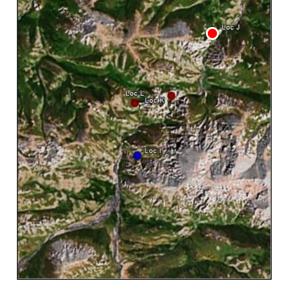
94° 05.373 E

Camera setup on 8 April 2010

Bemenge Range, farthest site down valley 4,612 m a.s.l.



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**SL Camera Trap Event 015** 

(Camera trap PP-009)

11 April 2010

05:51 AM

**Location 'J'** 34° 13.733 N

94° 05.373 E

Camera setup on 8 April 2010

Bemenge Range, farthest down valley 4,

4,612 m a.s.l.



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**SL Camera Trap Event 016** 

(Camera trap PP-001)

11 April 2010

06:00 PM

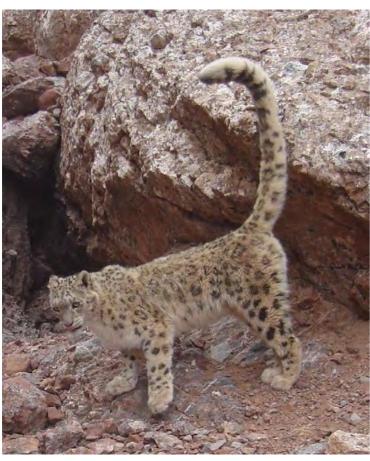
Camera setup on 8 April 2010

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** 

(Camera trap PP-002)

15 April 2010

02:40 PM

Camera setup on 8 April 2010

Location 'B'

34° 09.274 N

93° 52.534 E

Tseren Range, near Shiamba's home

4,873 m a.s.l.







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**SL Camera Trap Event 018** 

(Camera trap PP-002)

20 April 2010

11:20 AM

Camera setup on 8 April 2010

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 019** 

(Camera trap PP-006)

29 August 2010

06:05 PM

Location 'N'

34° 09.301 N

93° 57.290 E

Camera setup on 23 August 2010

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** 

(Camera trap PP-002)

1 September 2010

08:52 AM

Location 'Q' 34

34° 11.700 N

93° 58.082 E

Camera setup on 25 August 2010

in range going toward '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 021** 

(Camera trap PP-006)

1 September 2010

11:15 AM

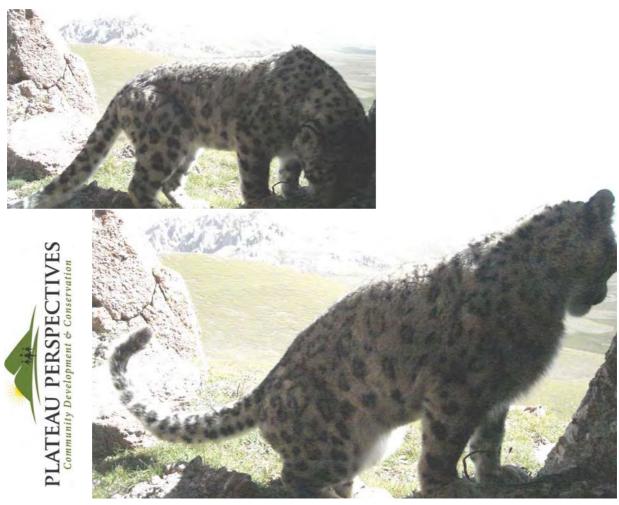
**Location 'N'** 34° 09.301 N

93° 57.290 E

Camera setup on 23 August 2010

opposite river, 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.





**Table 1.** Snow Leopard IDs based on unique visual markings.

	[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)	
														See 020		See 006	SL Event # 001
														See 018			SL Event # 002
												See 012, 016, 017	See 010, 016, 020			See 005,	SL Event # 003
										See 007, 010, 014	See 014						SL Event # 004
																See 003, 006, 012	SL Event # 005
											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)
	3rd SL in photo	Likely same				See 011											SL Event # 008 (3)
															Single small dot		SL Event # 009
									See 007, 014	See 004, 007, 014			See 003, 016, 020				SL Event # 010
		Likely same				See 008						1 of 2 SL (maybe)	1 of 2 SL				SLEvent # 011 (2)
							See 016, 020	See 020				See 003, 016, 017				See 003, 005, 006	SL Event # 012
															Single small dot		SL Event # 013
									See 007, 010	See 004, 007, 010	See 004						SL Event # 014
															Double small dot		SL Event # 015
							See 012, 020					See 003, 012, 017	See 003, 010, 020				SL Event # 016
												See 003, 012, 016					SL Event # 017
														See 002			SL Event # 018
					See 021												SL Event # 019
							See 012, 016	See 012					See003, 010, 016	See 001			SL Event # 020
					See 019												SL Event # 021

Snow Leopard names (tentative):

Gongbo	
Tashi	
Ngaya	
Yisong	
Jigme	
Laba	
Renzin	
Dundrup	
Dorje	

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

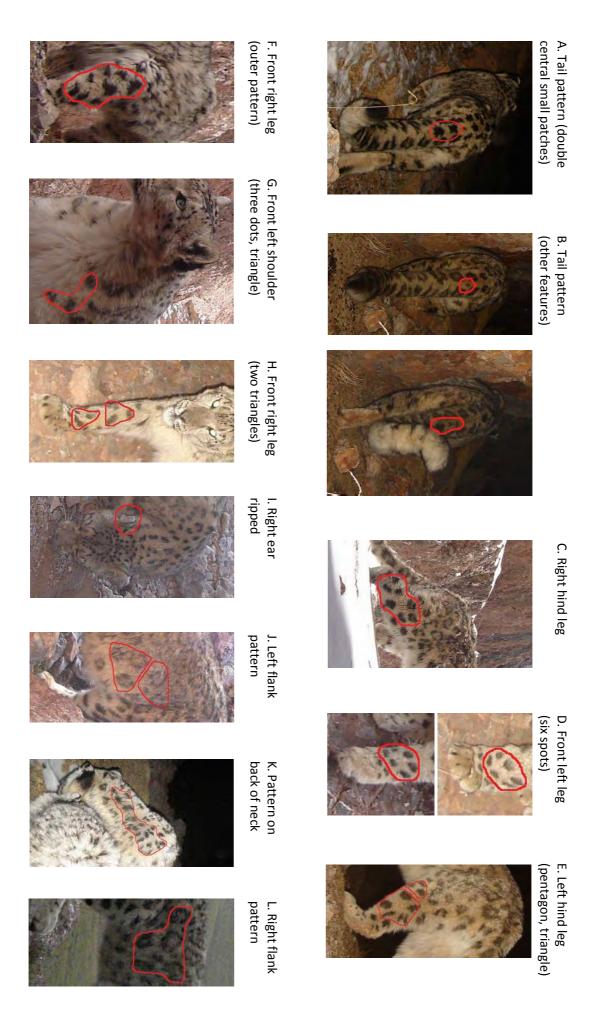
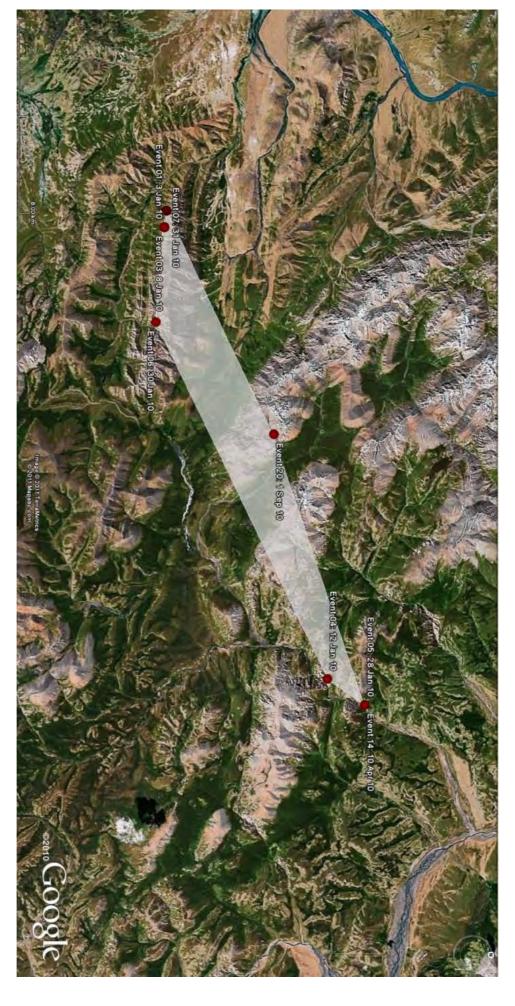


Figure 3. Map of movements made by 'Gongbo' (see Table 1).



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

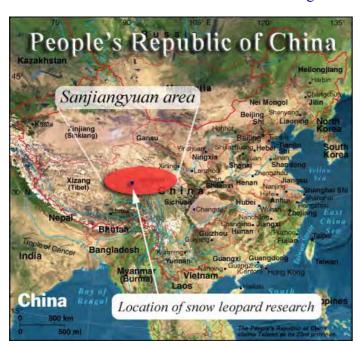
# SNOW LEOPARD SURVEY & CONSERVATION PLANNING

LOCATION OF CAMERA TRAPS, SETUP IN DECEMBER 2009

Plateau Perspectives team: **Dr J Marc Foggin** 

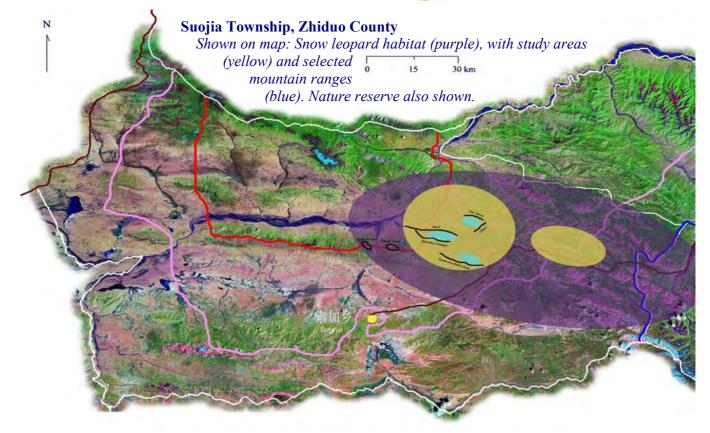
Prof Gongbu Zhaxi (Gongbo Tashi)

and **Mr Qingmei Rangding** (Jigme Rabden) together with **Mr Renzin** / SNNR Suojia Station

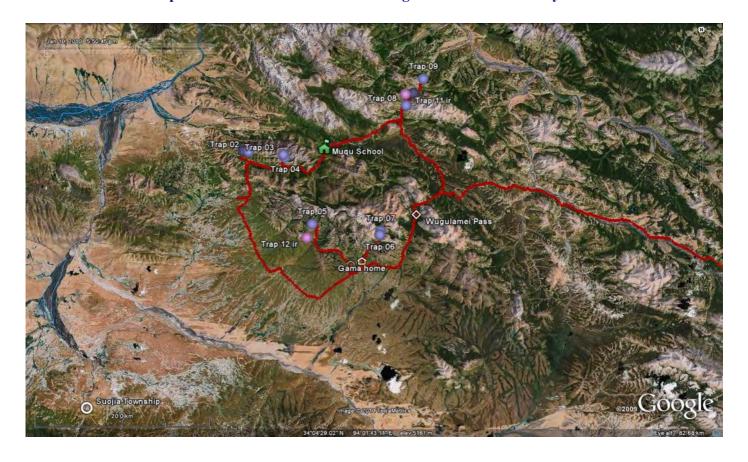




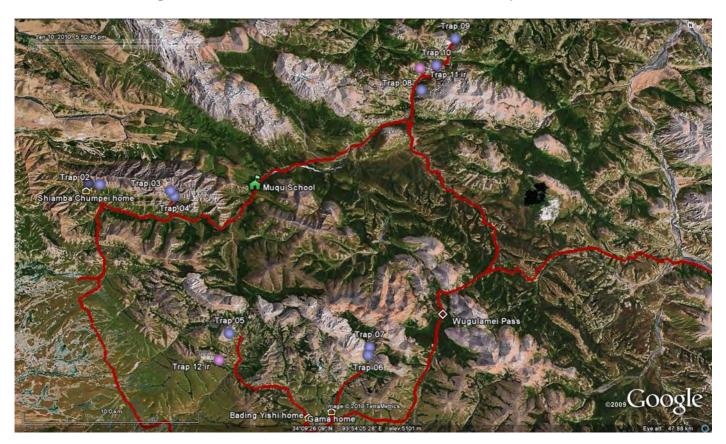




Snow Leopard research and conservation: Regional overview of study area



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°

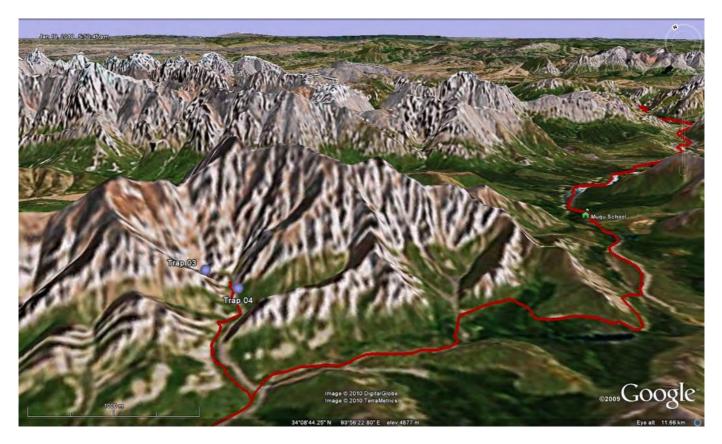




**Location B** N 34° 09.274° 4,873 m E 93° 52.534°







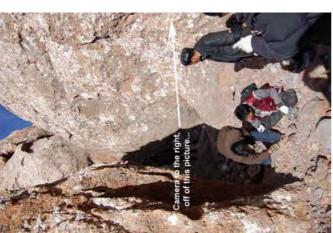
Two camera trap sites monitored by Datse in the *Tseren* mountain range

**Location C** N 34° 09.090° 4,824 m E 93° 55.076°













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°

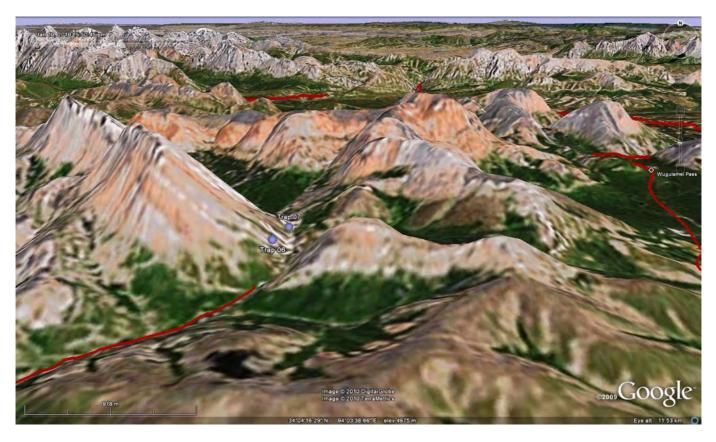




**Location F** N 34° 04.038' 4,832 m E 93° 56.781'







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'



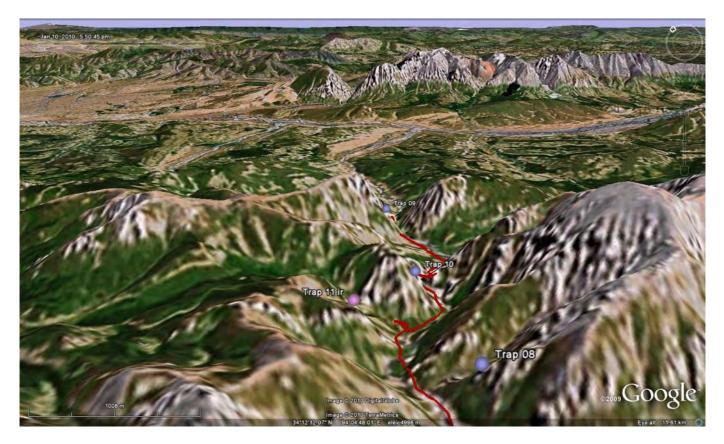
View down valley from came



**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'

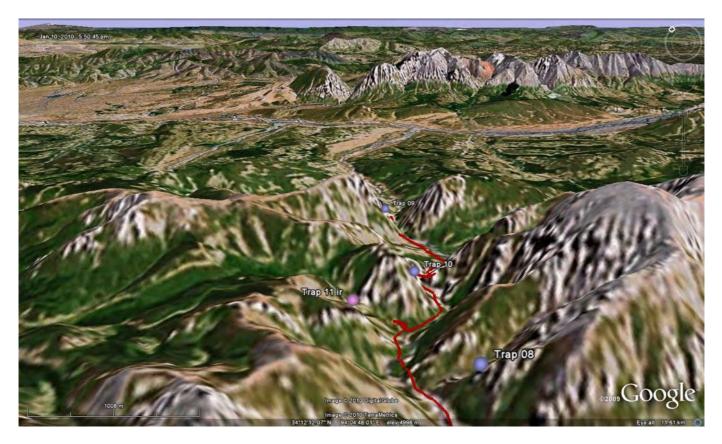
**Location J** N 34° 13.733' 4,612 m E 94° 05.373'











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

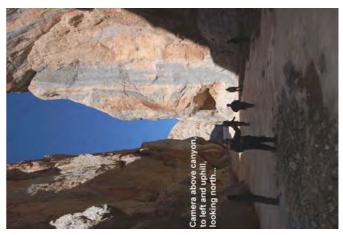
**Location K** N 34° 12.898° 4,642 m E 94° 04.662°

**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)

