Story of Saker in Altay



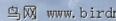
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Most of the Northern Sakers Over-Wintering in Xinjiang & Tibet



What Troubles Have Sakers Met in China?

- Legal and Illegal Trade
- Electrocution
- Killed with Poison
- Killed by Collision
- Other Reasons (such as hunger, illness, road-killed)

Legal and Illegal Trade



Photo by MaMing



Legal Trade & Illegally Capture

- Between 1993 and 2016, we know there were a total of 40 recorded legal trades involving 622 saker falcons.
- During the same period, there were data indicating that over 2300 saker falcons were illegally captured and traded in 76 cases.
- Mainly exported to countries such as Saudi Arabia, the United Arab Emirates, and Qatar in the Gulf.



Investigation on Raptor of Electrocution along Power Lines in the Western China

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Abstract: The electrocution survey is in the west of China, including Xinjiang, Qinghai, Sichuan, Gansu and Tibet in 2004–2008. About 178 km 10 kV and 35 kV transmission lines including more than 1 800 electric pylons were checked. The 110 dead birds, feathers and remains were collected and identified nearby the power line. The 79 raptors of electrocution were found in 10 kV (average 1. 36 dead birds/km). 11. 31% pylons threatened the birds. There were 44 nests in 35 kV pylons (average 0. 37 nests/km). At least 6.06% pylon was used by raptors. The 24% – 40% power accidents were caused by birds. The crux is the structure inconsequently, e.g. line exposed. About 20% raptors (11 species) are threatened by electrocution in Western China, which threatened the safe of the transmission line. The rationalization proposal was provided in this article.

Key words: Raptors; Electrocution; Power grid; Western China

Mei Yu, Ma Ming, Andrew Dixon and Hu Baowen. 2008. Investigation on Raptor of Electrocution



Electrocution in Altay



表 1 猛禽遭电击死亡名录(2004~2008)

Table 1 The list of raptor by electrocution in China from 2004 to 2008

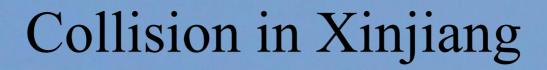
	地点 Place					
种类 Species	青海	新疆	四川	其他省区	数量(只)	比例(%)
	Q inghai	Xinjiang	Sichuan	Other province	Number	Percentage
鸢 Milvus migrans	+				1	1. 27
苍鹰 Acapiter gentilis		+		+	(2)	
棕尾 Buteo rufinus		+			(1)	
大 B. hemilasius	+		+		69	87. 34
胡兀鹫 Gypaetus barbatus	+				(1)	
猎隼 Falco cherrug	+				5	6 33
拟游隼 F. pelegri noides		+			(1)	
红脚隼 F. vespertinus				+	(1)	
红隼 F. tinnuncul us	+	+			1(+ 5)	1. 27
雕 Bobo bubo	+	+			3(+1)	3 80
长耳 Asio otus		+			(1)	
合计 Total					<i>7</i> 9	100

[&]quot;+"表示有电击记录; 括号内的数据来自文献。

Mei Yu, Ma Ming, Andrew Dixon and Hu Baowen. 2008. Investigation on Raptor of Electrocution along Power Lines in the Western China. Chinese Journal of Zoology. 43 (4): 114-117.

[&]quot; + " is raptor recorded in electrocution; The number of brackets is from references.

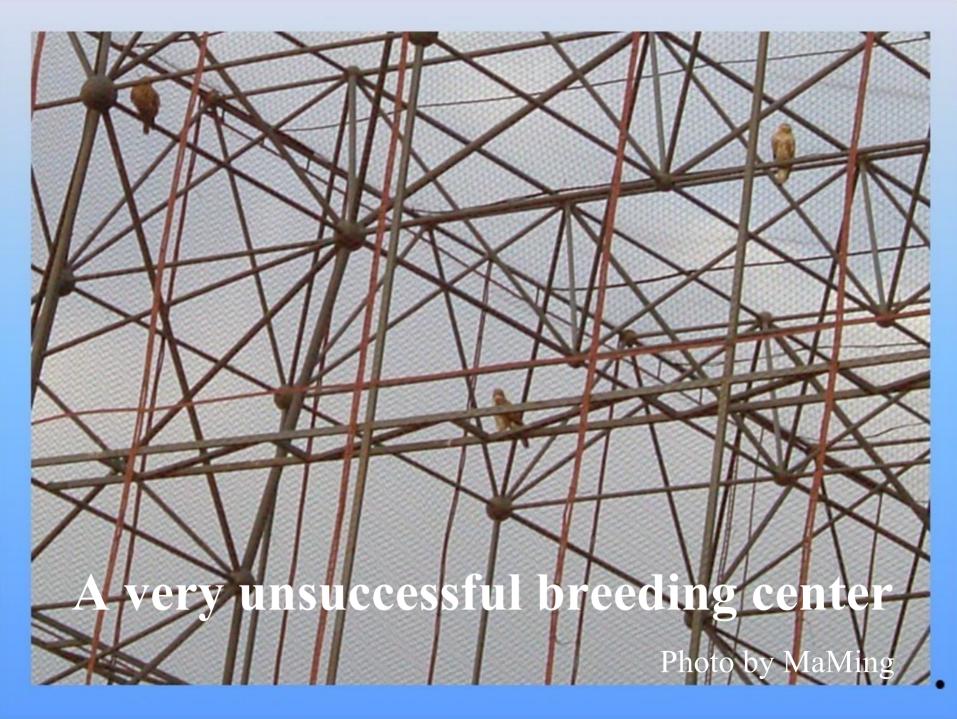






At least two breeding centers of sakers have been established during the past twenty years in Xinjiang

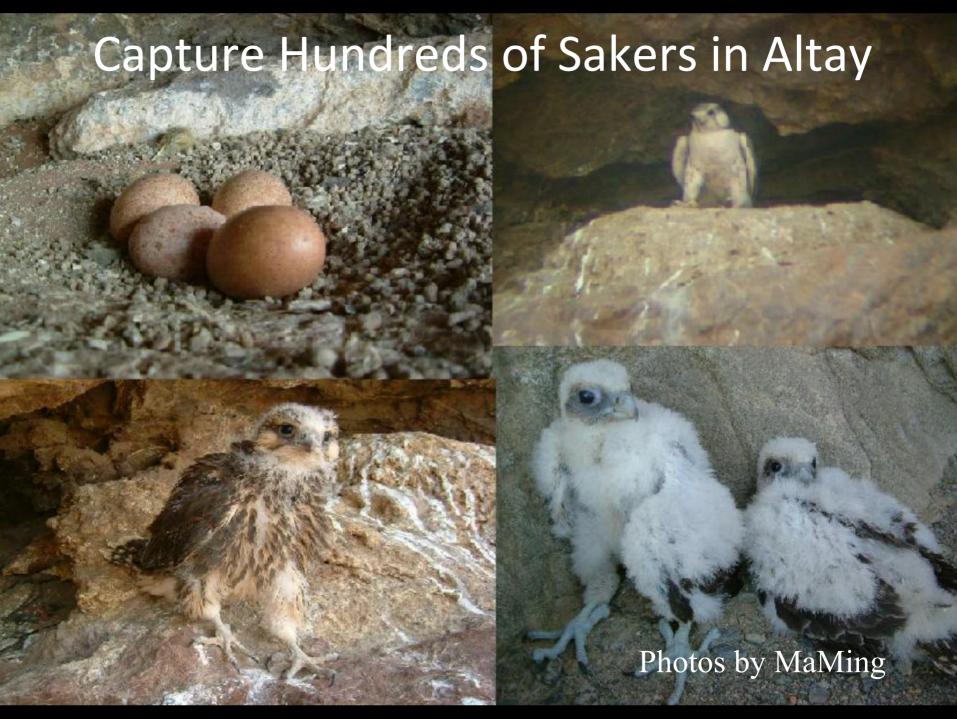




Breeding Center of Saker in Altay



- This center has got about 100 million Yuan from Qatar.
- Now, there are about 40 sakers in the center.
- All of these sakers were captured before 2014, aged more than 10 years old.
- There used to be more than hundreds of Sakers living here, but breeding was unsuccessful.



Visiting and Studying in Qatar and Morocco





The Saker Center has got about 100 million of Yuan from Qatar







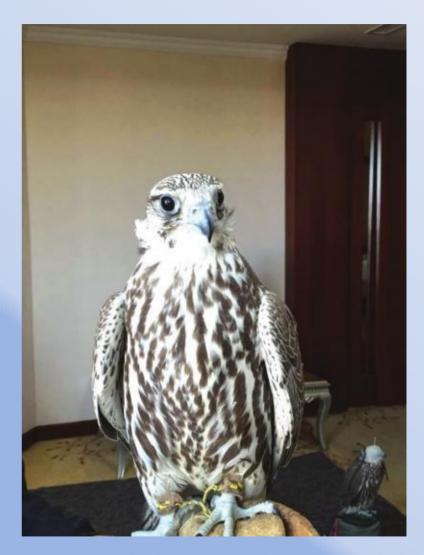
Sakers in Qatar





Do you know the goals of Qatar & Saudi Arabia?





It is to obtain more wild and young falcons from China.

Do you know the goal of Qatar?



Several Terrifying Results



- Captured Annually
- Target for Planning 200/Year
- Both sides believe that they can gain huge benefits from Altay.
- Greed and Dreams
- But the Breeding Plan is Zero in the Center.
- Now, Leave behind a Tricky Mess.

Problems at the Falcon Center

- One reason is that there are too few management personnel, with only one person for a long time (2020-2023).
- Secondly, the mortality rate is very high and there is a lack of medical security. At least 9 individuals have died of illness in the past six months (accounting for 17 %).
- Thirdly, I couldn't find the original files and health records, and the management was extremely chaotic.
- Fourthly, during the breeding period of the past decade, most young chicks have been eaten by their parents within a week of hatching.
- Finally, the most critical issue is insufficient funding and limited food supply. If we strengthen management, the aforementioned problems (chaos) may still be solvable.



Analysis of Missing Cases of Saker Falcon (Falco cherrug) by Satellite Tracking

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Abstract: The Saker Falcon (*Falco cherrug*) has been rapidly becoming endangered in the world. We analyzed the gender, signal duration, and missing month of 67 Saker Falcons tracked by satellites in the past 10 years, and their causes of death, threat factors and loss rates. We performed a more detailed analysis of the causes of death of 10 sakers from Russia and Mongolia during 2016 and 2017. Backpack method was used to fit the transmitters with the weight (17 g to 22 g) less than 3% of sakers' body weight (Fig. 1). When the transmitters no longer returned information, we went to the last locations of the GPS to search for the bodies of died birds in a certain area. We also investigated the animal traces and surrounding environment, and

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Dreams and Reality

- Dream: Save the saker through artificial breeding and release of them to desert
- And plan to add hundreds of sakers to the wild every year
- Reality: We cannot compensate for various threats, such as electrocution and trade (6000 to 8000) in the Central Asia
- What can we do, only 10%



Photo by MaMing

Sakers in Tibet



Twenty years ago, A scientific expedition on the Tibet Plateau



Saker in Tibet



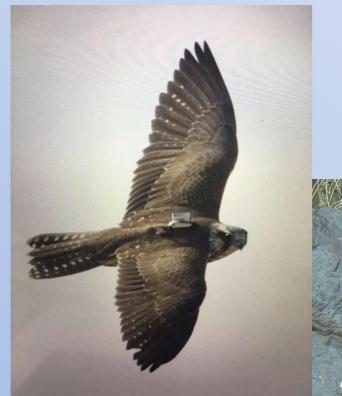
Photo by MaMing @ 2003

A Hundred Year History in China



Sakers in Xinjiang





Dangerous Situation Faced by Sakers



Saker in Tibet

(7.69% are Saker Falcons)



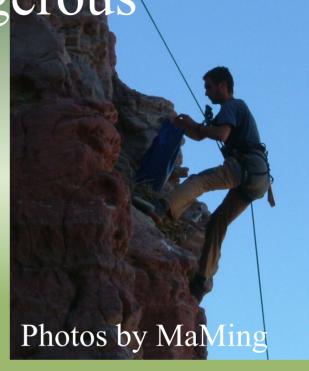




Faced with other Dangerous









References

- Angelov, Ivailo, LeiLei, MeiYu, Istvan Balasz, MaMing and Andrew Dixon. 2006. Possible mixed pairing between Saker Falcon (*Falco cherrug*) and Barbary Falcon (*Falco pelegrinoides*) in China. Falco, 28: 14-15.
- Andrew Dixon, Roller MaMing, Amarkhuu Gunga, *et al.* 2013. The problem of raptor electrocution in Asia: case studies from Mongolia and China. Bird Conservation International, 23: 520-529.
- Andrew Dixon, Ma Ming, Nyambayar Batbayar. 2015. Importance of the Qinghai–Tibetan plateau for the Endangered Saker Falcon *Falco cherrug*. Forktail, 31: 37-42.
- Ma Ming. 1999. Saker smugglers target western China. Oriental Bird Club Bulletin, 29: 17-17.
- Potapov, E. and Ma Ming. 2004. The highlander: the highest breeding Saker in the World. Falco, 23: 10-12.
- Ma Ming. 2004. Recent data on Saker smuggling in China. Falco, 23: 17-18.
- MaMing, Mei Yu, Tian Leilei, Wu Yi-Qun, ChenYing, XuFeng, A. Dixon, E. Potapov, I. Angelov, D. Ragyov, I. Balazs. 2006. The Saker Falcon in the desert of North Xinjiang, China. Raptors Conservation, 6: 58-64.
- Ma Ming and Chen Ying. 2007. Saker Falcon trade and smuggling in China. Falco, 30: 11-14.
- MaMing, MeiYu, E. Potapov, Wu Yiqun, A. Dixon, D. Ragyov, XuFeng, N. C. Fox. 2007. Breeding biology of Saker Falcon Falco cherrug and protection plan in Tibet, Qinghai and Xinjiang, the west of China. Arid Land Geography, 30(5): 654-659.
- MaMing. 2019. Story of Saker Falcon. Beijing: China Forestry Publishing House, 1-71.
- Mei Yu, Ma Ming, Andrew Dixon and Hu Baowen. 2008. Investigation on Raptor of Electrocution along Power Lines in the Western China. Chinese Journal of Zoology, 43 (4): 114-117.
- Wang S C and Ma Ming. 2019. Analysis of Missing Cases of Saker Falcon (*Falco cherrug*) by Satellite Tracking. Chinese Journal of Zoology, 54(1): 1-7.
- Wu Yiqun, MaMing, XuFeng, Andrew Dixon, Dimitar Ragyov. 2006. Feeding habits analysis of Saker Falcon and the effect of raptor on prevention mouse population. Journal of Xinjiang Agricultural University, 29(2): 13-16.
- Wu Yi-Qun, Ma Ming, Liu Xu Feng, Tian Lei, Mei Yu. 2007. Status of the Saker Falcon on the eastern fringe of the Junggar Basin, China. Raptors Conservation, 8: 42-47.
- Zhan X J, A Dixon, N Batbayar, MaMing, *et al.* 2014. Exonic versus intronic SNPs: contrasting roles in revealing the population genetic differentiation of a widespread bird species. Heredity, 114: 1-9.

Thanks for Your Attention!

