Text S1. Hainan wildlife community questionnaire

English-language version

Date:	Interviewer:
Protected area:	
	the Zoological Society of London. We want to know more about the environment and
	o I hope you can provide some information to help us better understand the local plants
	nvironmental changes that have taken place. The survey is anonymous and all the
a third party.	will only be used for research and analysis – we will not disclose any of your details to
a tillu party.	
1. Are you willing to part	icipate in this survey? Yes Unwilling
I hope you can try to answ	wer all the questions because this survey is very important.
2. Age 3. Ger	nder 4. Ethnicity 5. Occupation
	ome photos of animals to look at. If you know or don't know what they are, either
answer is fine.	
6 (Wild pig photo) Do ye	ou know what this animal is? Know / do not know
	size / diet / appearance
	her they have heard of this species and its features, and if they know the characteristics
	nue to ask the following question
=	nimals in the forest? Yes / No
	and the place
	of sightings and frequency of sightings
If no, then how do you kr	now about this animal?
8. Do you think this anim	aal is now: none / rare / not many / many
9. (Macaque photo) Do y	ou know what this animal is? Know / do not know
Know the name	size / diet / appearance
If do not know, ask whetl	ner they have heard of this species and its features, and if they know the characteristics
of this species, then conti	nue to ask the following question
•	animals in the forest? Yes / No
	and the place
	of sightings and frequency of sightings
	now about this animal?
11. Do you think this anim	mal is now: none / rare / not many / many
	ou know what this animal is? Know / do not know
	size / diet / appearance
	her they have heard of this species and its features, and if they know the characteristics
=	nue to ask the following question
-	animals in the forest? Yes / No
	and the place
	of sightings and frequency of sightings
II no, then how do you kr	now about this animal?

14. Have you heard any stories about gibbons or anything else about them (such as uses)?		
15. Do you know any characteristics of gibbons (ecology, reproduction, behaviour, food)?		
16. Do you know if other people have seen gibbons (time, place		
Please provide the person's contact information		
17. Do you know someone who has heard gibbons (time, place)?		
18. Do you think this animal is now: none / rare / not many / many		
19. Do you know anyone in the local area who has seen a gibbon within the past 10-15 years?		
If yes, who location and any other information		
* Can you take me to them, or call them?		
20. (Clouded leopard photo) Do you know what this animal is? Know / do not know		
Know the name size / diet / appearance		
If do not know, ask whether they have heard of this species and its features, and if they know the characteristics		
of this species, then continue to ask the following question		
21. Have you seen these animals in the forest? Yes / No		
If yes, the last time seen and the place		
If seen, the total number of sightings and frequency of sightings		
If no, then how do you know about this animal?		
22. Do you think this animal is now: none / rare / not many / many		
22. Do you think this allimar is now. Holle / Tare / not many / many		
22 (Poor photo) Do you know what this animal is? Know / do not know		
23. (Bear photo) Do you know what this animal is? Know / do not know		
Know the name size / diet / appearance		
If do not know, ask whether they have heard of this species and its features, and if they know the characteristics		
of this species, then continue to ask the following question		
24. Have you seen these animals in the forest? Yes / No		
If yes, the last time seen and the place		
If seen, the total number of sightings and frequency of sightings		
If no, then how do you know about this animal?		
25. Have you seen tracks/traces of a bear in the forest? (scratches, faeces, footprints, etc.) Yes / No		
If yes, where, trail description, why do you think it was a bear, time, place		
26. Do you think this animal is now: none / rare / not many / many		
27. (Pangolin photo) Do you know what this animal is? Know / do not know		
Know the name size / diet / appearance		
If do not know, ask whether they have heard of this species and its features, and if they know the characteristics		
of this species, then continue to ask the following question		
28. Have you seen these animals in the forest? Yes / No		
If yes, the last time seen and the place		
If seen, the total number of sightings and frequency of sightings		
If no, then how do you know about this animal?		
29. Do you think this animal is now: none / rare / not many / many		
30. Has anyone poached pangolins? Yes / No		
Are they local or foreign? Local / foreign		
Was it for local use or to sell elsewhere? Local / foreign Place		
31. Has the poaching frequency changed? Yes / No		
If yes, how / when / why the change?		
if jes, now, whom, why the change.		

32. (Binturong photo) Do you know what this animal is? Know / do not know

-	e following question
33. Have you seen these animals in the	
	and the place
If seen, the total number of sightings _	
	s animal?
34. Do you think this animal is now:	none / rare / not many / many
35. (Sambar photo) Do you know wha	t this animal is? Know / do not know
Know the name size	e / diet / appearance
If do not know, ask whether they have	heard of this species and its features, and if they know the characteristics
of this species, then continue to ask the	e following question
36. Have you seen these animals in the	e forest? Yes / No
If yes, the last time seen	and the place
If seen, the total number of sightings _	
	s animal?
37. Do you think this animal is now:	
38. (Giant anteater photo) Do you kno	w what this animal is? Know / do not know
- · · · · · · · · · · · · · · · · · · ·	e / diet / appearance
	heard of this species and its features, and if they know the characteristics
•	e following question
39. Have you seen these animals in the	
•	and the place
	and frequency of sightings
	s animal?
40. Do you think this animal is now:	
.o. 20 jou annic and annina is now.	1000 , 1000 many , many
•	these animals has decreased? Yes / No
	how much?
42. Have any other animals around her	
	mal around here?
	decreased in number?
45. In addition to these animals, are th disappeared? Yes/No	ere any animals that used to occur around here in the past but have now
	place seen or other source of news, and when they disappeared
•	le that any other types of animals used to occur around here, but
47. Have you always lived in this villa	
	st (monthly or weekly)?
	is the reason?
	do in the forest?
	ood (area and distance)?
	more in the past (time and frequency)?

How many times?	When?	Place?	
53. Gibbon (): Have yo	u heard it? Yes/ rarel	ly / not many / many / none Name?	
How many times?	When?	Place?	
54. Peafowl (): Have yo	ou heard it? Yes/rare	ely / not many / many / none Name?	
How many times?	When?	Place?	
55. Howler monkey ():	Have you heard it? Y	es/ rarely / not many / many / none Name?	
How many times?	When?	Place?	
56. Screaming piha (): l	Have you heard it? Y	Yes/ rarely / not many / many / none Name?	
How many times?	When?	Place?	

Do you know anyone in the village who is familiar with the wild animals here? Can you help us find them?

Chinese-language version

海南野生动物社区调查问卷

日期 保护	:调查员: 区:乡/村:乡/村:
我们 些相	是伦敦动物学会的调查员。我们想要多了解这里周围的环境与林子,所以希望你能提供一 关信息,帮助我们更了解以前山上的动植物以及多年来的环境变迁。这个是个不记名调查 供的所有信息只会被用作研究分析,不会向第三方透露。
1.	
2.	希望你可以尽量回答我们这份卷子的所有问题,这个对我们调查非常重要。 年龄 3. 性别 4. 民族 5. 职业
	:给你们看一些动物的照片,看你们认不认识,不认识也没有关系。 (wild pig photo)你知道这是什么动物吗? 知道 / 不知道 知道,名称大小/食性/外貌 不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
7.	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	没有,你是如何知道这动物的?
8.	
9.	(macaque photo) 你知道这是什么动物吗? 知道 / 不知道知道,名称大小/食性/外貌
	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
10.	你在山上见过这动物吗?有/没有
	你在山上见过这动物吗? 有 / 没有 有,上次看见的时间
	看见总次数如果常见,频率是
	没有,你是如何知道这动物的?
11.	你觉得这个动物现在是 没有 / 很少 / 不多 / 很多
12.	(gibbon photo) 你知道这是什么动物吗? 知道 / 不知道
	知道,名称大小/食性/外貌
	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
13.	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	有,上次看见的时间
	没有,你是如何知道这动物的?
14. 1	尔听说过有关长臂猿的故事或事情(如用途)吗?
15. 1	尔知道长臂猿的特征吗(生态、繁殖、行为、食物)?
16.	你知道其他人在山上见过这动物吗(时间、地点)?
可否	提供这个人的联系方式?
	尔觉得这个动物现在是 没有 / 很少 / 不多 / 很多

	你可知道附近有人在近 10-15 年内有见过长臂猿吗?
	有, 谁
	*问是否能带我去找他或打给他?
20.	(clouded leopard photo) 你知道这是什么动物吗? 知道 / 不知道
	知道,名称大小/食性/外貌
	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
21.	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	看见总次数如果常见,频率是
	没有,你是如何知道这动物的?
22	你觉得这个动物现在是没有/很少/不多/很多
<i></i> .	你是内廷中奶奶先生是一块有个低之子中多个低多
23	(bear photo) 你知道这是什么动物吗? 知道 / 不知道
23.	知道,名称 大小/食性/外貌
	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
24	你在山上见过这动物吗?有/没有
<i>∠</i> 4.	你在四上光度处别物吗! 有 / 仅有 去 上海美国的时间
	有,上次看见的时间
	没有,你是如何知道这动物的?
25.	你有没有在山上发现过熊留下的踪迹(抓痕、粪便、脚印等) 有/没有
	有,踪迹的描述、为什么认为是熊的、时间、地点
26.	你觉得这个动物现在是 没有 / 很少 / 不多 / 很多
27.	(pangolin photo) 你知道这是什么动物吗? 知道 / 不知道
	知道,名称大小/食性/外貌
	问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
28.	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	有,上次看见的时间
	没有,你是如何知道这动物的?
29.	你觉得这个动物现在是 没有/很少/不多/很多
	这里有人抓穿山甲么?有/没有
•	有, 当地还是外来人? 当地/外来
31	当地使用还是卖到外地? 当地 / 外地,地方
J1.	加加尔十日以入门; 17 1271 171,心力/日五时医/刀目五以又:
32	(binturong photo) 你知道这是什么动物吗? 知道 / 不知道
<i>5</i> ∠.	
22	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题 (你在小人里才)对特别。在 / 沙方
<i>33</i> .	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	看见总次数如果常见,频率是
	没有,你是如何知道这动物的?
34.	你觉得这个动物现在是 没有 / 很少 / 不多 / 很多
	(sambar photo) 你知道这是什么动物吗? 知道 / 不知道
	知道, 名称 大小/食性/外貌

	不知道,问是否有听说过这物种以及它的特征,如果知道物种特征,继续问以下问题
36.	你在山上见过这动物吗?有/没有
	有,上次看见的时间
	看见总次数如果常见,频率是
	没有,你是如何知道这动物的?
37.	你觉得这个动物现在是 没有/很少/不多/很多
20	(signt outgoton aboto) 版如道这具体/s 动物呵? 如道 / 不如道
38.	(giant anteater photo) 你知道这是什么动物吗? 知道 / 不知道 知道,名称大小/食性/外貌
	一种道,名称
30	你在山上见过这动物吗?有/没有
37.	有,上次看见的时间
	看见总次数
	没有,你是如何知道这动物的?
40.	你觉得这个动物现在是 没有 / 很少 / 不多 / 很多
41.	你觉得以上这些动物的数量在这些年有没有减少? 有 / 没有
	有,什么动物,减少多少?
42.	除了以上的动物,这里还有什么动物越来越少了?
	你觉得这里现在最稀有的动物是那种?
	你觉得那种动物数量没有减少过?
45.	除了以上的动物,这里以前还有什么动物是现在没有的?有/没有
	有,描述动物,见到的时间和地点,或者其它消息来源,什么时候消失的?
	有没有从老人听说附近有其它动物,但是在很久以前就已经消失了?
47.	你是否一直住在这村子? 是 / 否, 你住在这里多久以前住哪
48.	
	如果现在已经不再上山,原因是什么?
	你希望能允许上山么?
49.	通常会去哪片林子(片区与距离)?
50.	
51.	你经济收入的多大部分来自林子采来的东西?
	然 に () ナビトロのナ (日本) (アカ (日本) (日本)
52.	第一段 (): 有听过吗? 有,很少 / 不多 / 很多/没有 名称
53	几次时间
<i>J</i> J.	几次
54	第三段 ():有听过吗? 有,很少 / 不多 / 很多/ 没有 名称
	几次时间
55.	第四段():有听过吗?有,很少/不多/很多/没有 名称
	几次时间
56.	第五段():有听过吗?有,很少/不多/很多/没有 名称
	几次时间

你可知道村子里有哪个人熟悉野生动物? 能否协助我们找到他吗?

Text S2. Conversion of encounter reports to direct sighting dates

Encounter dates (reports of gibbon and macaque sightings, and when gibbon calls were heard) were reported by respondents using a variety of different methods for describing the timing of past events. Alternative formats containing sufficient details of encounter timings were converted to direct calendar years for analysis as follows:

Reporting format	Example	Method of conversion to direct calendar year
Direct calendar year	"I last saw a gibbon in 1982"	Already in correct format for analysis
Time elapsed/number of years ago	"I last saw a gibbon 15 years ago"	Number of years before 2015
Specified multi-year range	"I last saw a gibbon in the 1970s"; "I last saw a gibbon when I was in my 40s"	Equal probability of being randomly assigned to any calendar year within given range
End-date only (1)	"I last saw a gibbon sometime before 1975"	Equal probability of being randomly assigned to any calendar year between the year before given date and the start of the decade (e.g., 1970-1974 for the given example)
End-date only (2)	"I last saw a gibbon 10 or more years ago", reported using the Chinese time constructions "10 多年前" /10 duo nian qian, or "10 几年前"/10 ji nian qian [with implication that event likely occurred in 10-year period predating given end-date]	Equal probability of being randomly assigned to any calendar year in the reported decadal interval (e.g., between 10 and 19 years ago for the given example)
Specific minimum age	"I last saw a gibbon when I was 18 or older" [based on the Chinese time construction "18 岁多"/"duo sui", i.e. a given age or older]	Taken conservatively as minimum age reported by respondent (e.g., when respondent was 18 for given example)
General minimum age	"I last saw a gibbon when I was 20 or more" [alternative usage of "岁多"/"duo sui"; refers to when respondent was in their 20s]	Equal probability of being randomly assigned to any calendar year within reported decadal range (e.g., any date between when respondent was 20 to 29 for given example)
With reference to national, local or personal events	"I last saw a gibbon the year before the reserve was gazetted"; "I last saw a gibbon in the year that Chairman Mao died"	Exact date assigned when date of reference event can be determined

Some further encounters were reported using categories that were too vague to use (e.g. "some years ago", "when I was young"); such reports had to be excluded from specific analysis of encounter histories.

Encounter dates reported as time elapsed/number of years ago may be prone to digit preference or 'age heaping' (preferential rounding to end-digits, typically multiples of ten). This phenomenon has been shown to have little influence on parameter estimates or power of parametric tests and can only be corrected by an arbitrary choice of smoothing parameter [Eilers and Borgdorff, 2004; Camarda *et al.*, 2008], and is also expected to have the same relative effect on sighting histories for all species and landscapes, so we did not control or correct for it in this study.

References:

Camarda CG, Eilers PHC, Gampe J. 2008. Modelling general patterns of digit preference. Statistical Modelling 8:385–401.

Eilers PHC, Borgdorff MW. 2004. Modeling and correction of digit preference in tuberculin surveys. International Journal of Tuberculosis and Lung Disease 8:232–239.