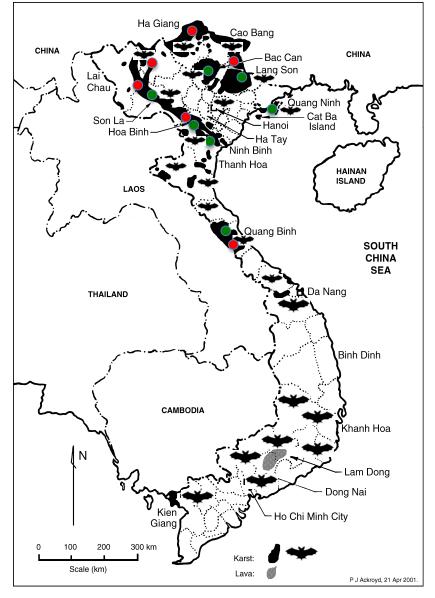


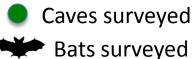
Cave-Dwelling Bats in Vietnam: Conservation Status, Threats & Needs

Presented by:

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1. National Karst Area: a.60,000 km²





Priority area for cave bat surveys

Karst and Caves

2. Cave Survey Areas:

- Northeastern
- Northwestern







3. Priority Areas for Future Cave Bat Surveys:

- Northeast area
- Northwestern area
- North Central



Vietnam Cave Bats: What we know

1. Major Cave Bat Colonies

- An Tinh cave in Kim Hy NR: at least 21 bat species and counted 35,000 individuals
- Most of those belong to 2 fruit bat species (Rousettus leschenaulti and Eonycteris spelaea).

2. Cave Bat Species Richness

- So far, some caves in Kim Hy NR, Pu Luong NR, Phong Nha-Ke Bang NP,
 Cuc Phuong N.P have recorded at least 15 dwelling bat species
- Cave -bat species found abundantly are fruit bats (Rousettus ssp, E. spelaea) and insectivorous bats (Rhinolophus spp, Hipposideros ssp)

3. Priority Cave Bat Species for Conservation

- Cave dwelling fruit bats
- Some rare cave dwelling insectivorous bats:



Current Threats to Cave Bats

Type of Threat	Occurrence	Urgency	Importance
Foraging habitat loss/disturbance outside caves	3	3	6
Cave tourist development	2	3	5
Pollution of water sources and food chain	2	3	4
Illegal bat hunting / harvesting	1	3	4
Guano collecting	1	1	2
Infectious diseases	NA	NA	NA

Occurrence: 1= Localized; 2= Widespread; 3= Nationwide.

Urgency: 1= Low; 2= Medium; 3= High.

Importance: For conservation attention



Current or Recent Cave Bat Research

Type of Research	Location	MajorAims Contact Personal Institution	
Conservation	Kim Hy NR	- Access the level of bat diversity	Dr Neil Furey
research	Ba Be NP	and the needs to conserve them	FFI
Conservation	Huu Lien NR	- Access the level of bat diversity	Dr Neil Furey
research	nuu Lieli NK	and the needs to conserve them	FFI
Conservation	Cat Ba NP	- Access the level of bat diversity	Dr Vu Dinh Thong
research	Cat ba INP	and the needs to conserve them	IEBR
Conservation	Phong Nha-	- Access the level of bat diversity	Dr Vu Dinh Thong
research	Ke Bang NP	and the needs to conserve them	IEBR
Conservation	Hoang Lien	- Access the level of bat diversity Dr Vu Dinh Th	
research	NP	and the needs to conserve them	IEBR



Current Cave Bat Conservation Activities

Type of Activity	Location	MajorAims	Contact Person/ Institution
Conservation	Northwestern	- Access the level of bat diversity	Vuong Tan Tu
research	Northwestern	and the needs to conserve them	IEBR
PhD research	Annamite	- Access the level of diversity and	Vuong Tan Tu
PilD research	range	endemism of regional bats	IEBR



Future Needs for Cave Research & Conservation in Vietnam

Action or support needed	Importance	Justification
Legal reform and investments to improve local residents' life and awareness	1	Local people play a key role in any bioconservation efforts but they are poor and their life depend on the nature harvesting. They also lack of knowledge of nature conservation.
Strengthen professional capacity of local rangers and authors	2	Local rangers and authors need to equip the guidance in bioconservation and management.
Improvement national research capacity	3	Vietnamese bat researchers is still weak in both quantity and quality.
Cooperation with international scientists and organizations	4	This will help to enhance local research capacity.
Establishment a national expertise networks	5	The integration among experts will overcome the lacks in cave bat surveys