

Flying Fox Conservation Status and Major Threats in SE Asia – SEABCRU FF Objectives

Tammy Mildenstein



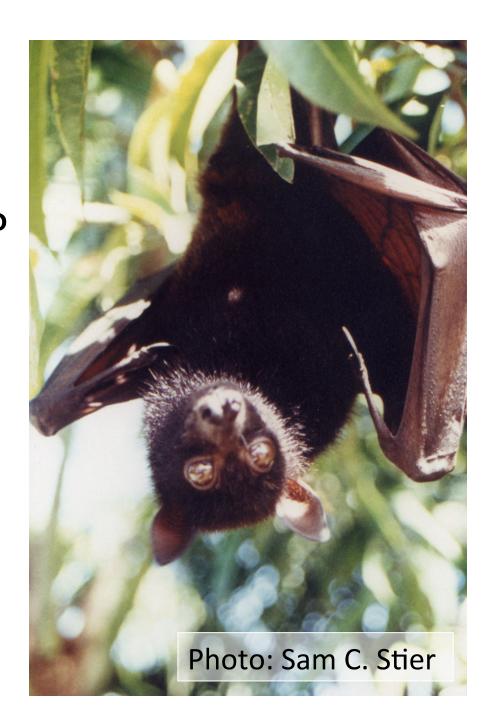
Bats

Pteropodidae (Old World fruit bats)

Forearm >110 mm

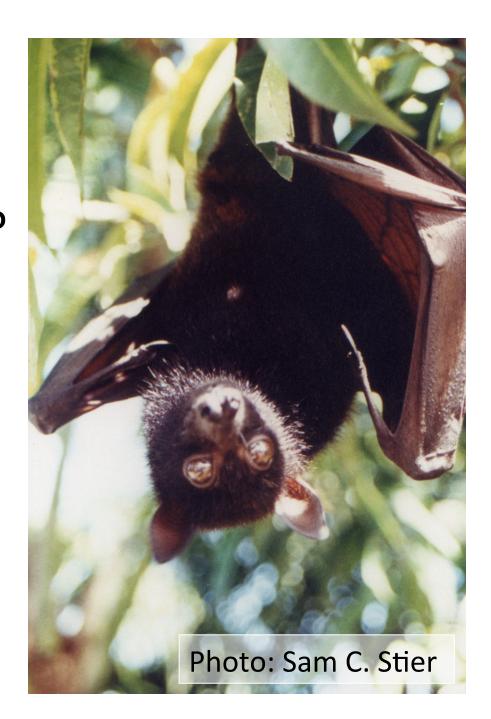


Why do we study them?



Why do we study them?

Endangered



SE Asia

31 species

16 threatened



Wide ranging



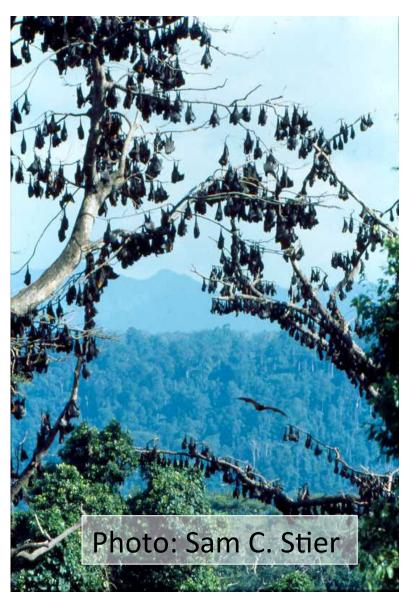
Wide ranging

Dependent on forest

Wide ranging

Dependent on forest

Roost conspicuously



Wide ranging

Dependent on forest

Roost conspicuously

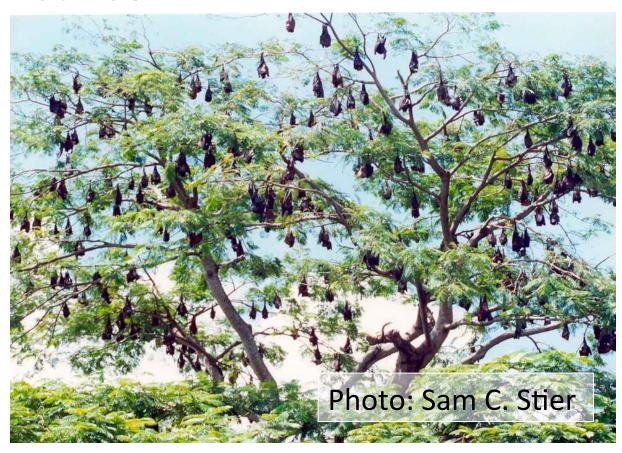
Heavily hunted



Disturbances

Habitat loss

Roost site disturbance



Disturbances

Habitat loss

Roost site disturbance



Why do we study them?

Endangered

Important



ECOLOGICAL

ECONOMIC

CULTURAL

ECOLOGICAL

Key pollinators seed/dispersers



ECOLOGICAL

Key pollinators seed/dispersers

Forest regeneration



ECOLOGICAL

ECONOMIC

Ecosystem services:

water, clean air, forest products



ECOLOGICAL

ECONOMIC

Ecosystem services:

water, clean air, forest products crop pollination

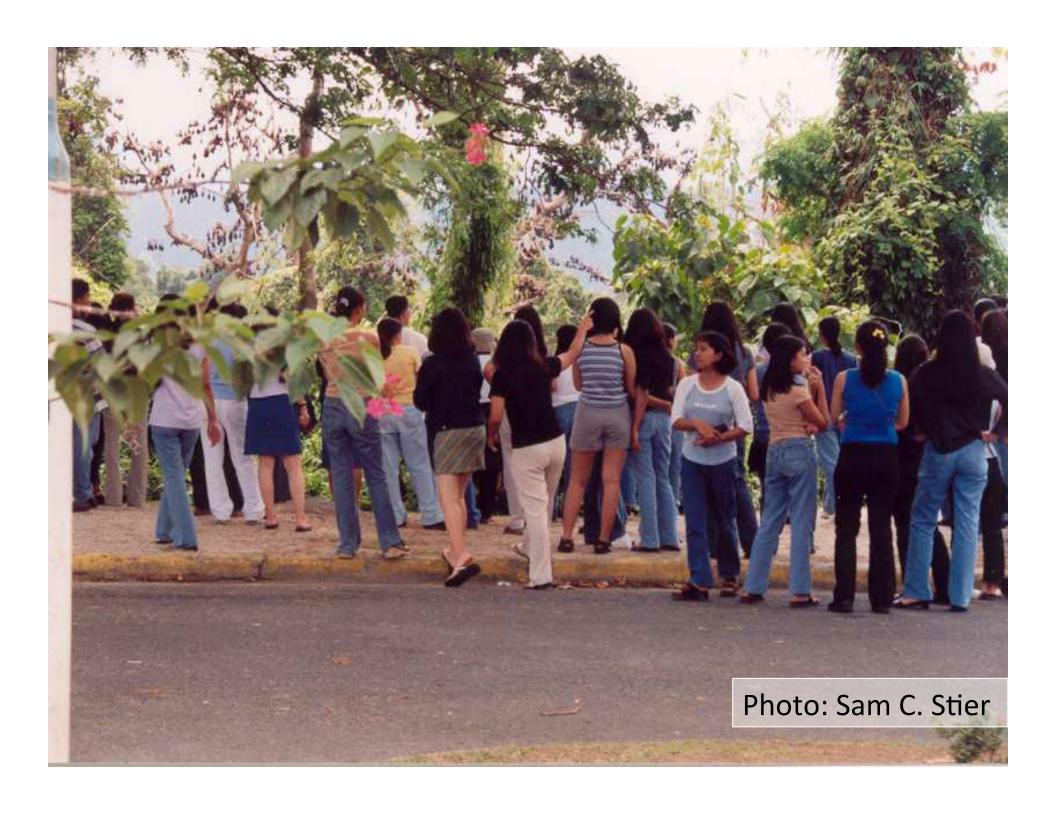


ECOLOGICAL

ECONOMIC

Ecosystem services

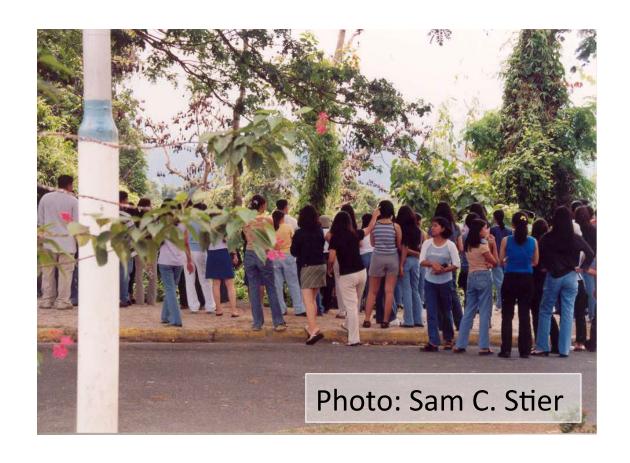
Eco-tourism



ECOLOGICAL

ECONOMIC

CULTURAL Flagship species



ECOLOGICAL

ECONOMIC

CULTURAL
Flagship species
Food/medicine
Sport



Why do we study them?

Endangered

Important

Unknown

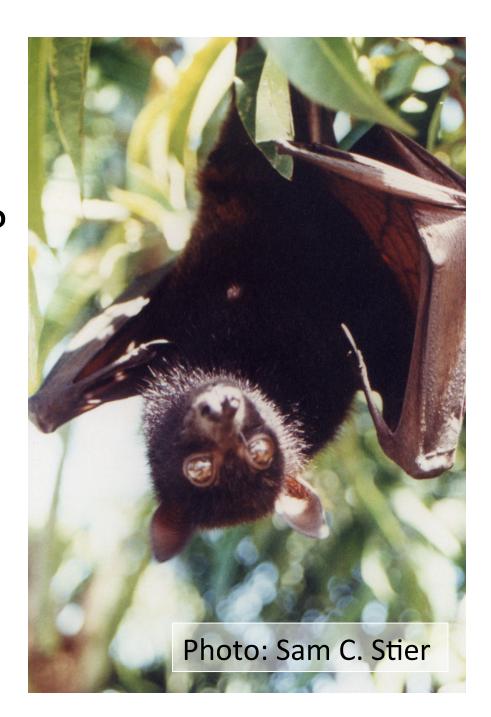


Why do we study them?

Endangered

Important

Unknown



Centered on four priorities:

- —flying fox distributions and population ecology
- -taxonomy and systematics
- response of forest-dependent bats to landscape change
- -cave bat diversity and conservation

Across Priority Groups

Global Actions:

- (1) Work across borders
- (2) Identify effective management
- (3) Compile existing information
- (4) Expand the capacity of researchers, managers
- (5) Identify priorities
- (6) Standardize methods











Flying Fox Group

Goals:

Identify priorities

Collate data

Standardize monitoring methods

Flying Fox Group

Goals:

Identify priorities

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Identify Priorities – SMALL GROUP DISCUSSIONS



India & Sri Lanka



Philippines



NGO's & IUCN



Indonesia, PNG & Melanesia



Taiwan



VietNam



Singapore & Hong Kong



Malaysia & Myanmar



Thailand & Laos

Identify Priorities - SURVEY QUESTIONNAIRES

SE Asia Fruit Bat Conservation Workshop 2007 PHUKET, THAILAND Participant Questionnaire
Threats to fruit bats in your country of research/expertise (check all that apply).
And, please rank the top 5 (5 is most important to conservation).
 () Deforestation/habitat loss or fragmentation due to humans () Limited suitable roost sites () Hunting (illegal) () Hunting (legal) () Introduced species (competition/predation/etc.) () Natural predators (identify:) () Natural disasters (landslides, typhoons, etc.)
() Persecution as pests (in fruit orchards)
() Anthropogenic disturbance at the roost site (e.g. noise,
tourism, nearby construction)
() Others:

Identify Priorities - SURVEY QUESTIONNAIRES

SE Asia Fruit Bat Conservation Workshop 2007 PHUKET, THAILANDParticipant Questionnaire

SE Asia Fruit Bat Conservation Workshop Questionnaire BOGOR, INDONESIA 2011

2nd International Southeast Asia Bat Conservation Research Symposium Flying fox conservation workshop

1. What aspects of fruit bats do you study?

Taxonomy/Systematics

Population Biology/Ecology

Conservation/Management

EIDs in bats

Bat ecology

Fruit bat/human interactions

Effects of human disturbance on bats

Others:

2. What are the most needed research techniques that would support conservation in your area of expertise?



Flying Fox Group

Goals:

Identify priorities

Goals:

Results:

Identify priorities

Threats, Needs

Goals:

Results:

Identify priorities

Threats, needs

Collate data

Goals: Results:

Identify priorities Threats, needs

Collate data Maps of roosts

Goals:

Results:

Identify priorities

Threats, needs

Collate data

Maps of roosts

Standardize methods

Tammy Mildenstein, 2013 SEABCRU Flying fox workshop, Phnom Penh, Cambodia

FLYING FOX MONITORING WORKSHOP 2012 Hat Yai, Thailand



Goals: Results:

Identify priorities Threats, needs

Collate data Maps of roosts

Standardize methods Survey protocol

WORKSHOP OBJECTIVES

Encourage flying fox conservation in Indochina

By training biologists:

- 1. Survey colonies
- 2. Study diet
- 3. Disease ecology
- 4. Farmer/flying fox conflict



Tammy Mildenstein, 2013 SEABCRU Flying fox workshop, Phnom Penh, G

Why?



By the end of the workshop, participants will:

Count flying fox colonies

Study FF diet from feces

Know basics about disease ecology study (and safety)

Be aware of stakeholders' perspectives



By the end of the workshop, participants will:

Be a part of the SEABCRU network!

technical guidance resources (information, educational material) collaborators data sharing







Southeast Asian Bat Conservation Research Unit



Featured website - ecologyasia.com

August 04, 2013 Comments are off

From Tigga: I am happy for the SEABCRU website to feature others that include our attention, send me a write-up about the origins of the site or organization.

www.seabcru.org

Tammy Mildenstein, 2013 SEABCRU Flying fox workshop, Phnom Penh, Cambodia

