







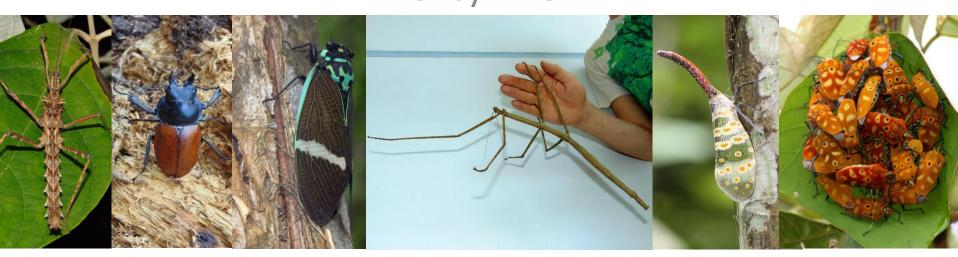




Science meets conservation



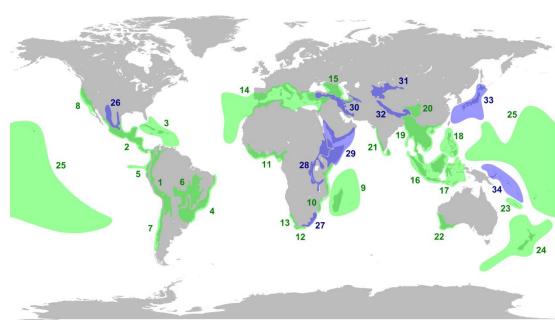
Uptake workshop – 10 years international cooperation
Policy Brief



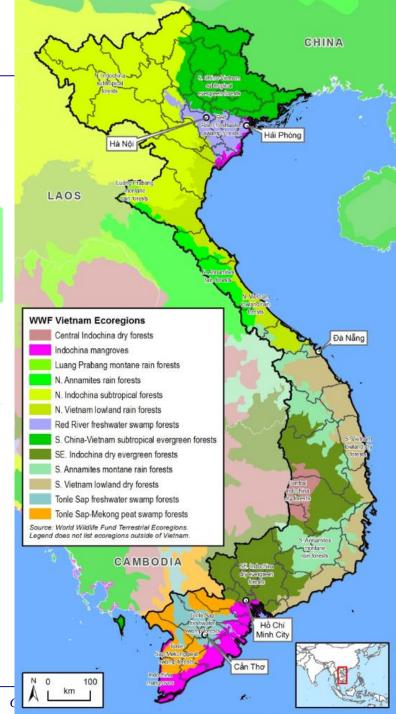
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Vietnam Biodiversity



- Vietnam: 16th most biodiversity rich country
- Part of Indo-Burma hotspot designated by Conservation International.
- 14 terrestrial ecoregions
- 110 key biodiversity areas

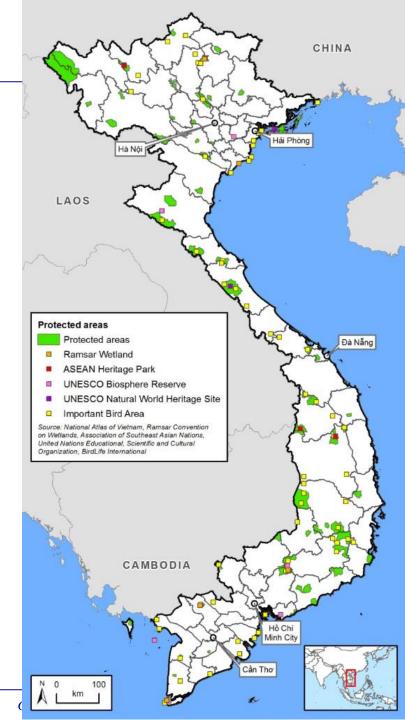


Vietnam Biodiversity

Some general figures:

- high level of endemism: 10% of Vietnam's plants;
 12 mammals, 7 birds, 48 reptiles, 33 amphibians,
 80 freshwater fish...
- 164 terrestrial Protected Areas (32 nat. Parks and 58 nature reserves), covering 7.5% of the country's total land area, virtually address all of Vietnam's major ecosystems.

But what about insect diversity?



Importance of insects diversity

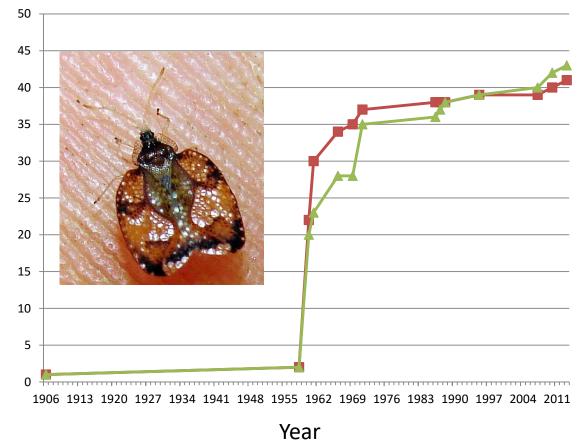
- Insects = half of known species
- Probably 80% of species on Earth
- About 20.000 species known from Vietnam
 = 10% of estimated diversity
- Very high level of endemism (species occurring only in Vietnam)

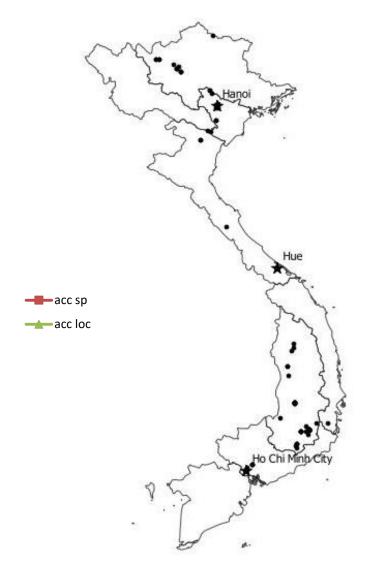
Vietnam = Hotspot also for insects!

Case study: the Lacebugs of Vietnam

Each new location sampled = discovery of new species!

Number of species/sites

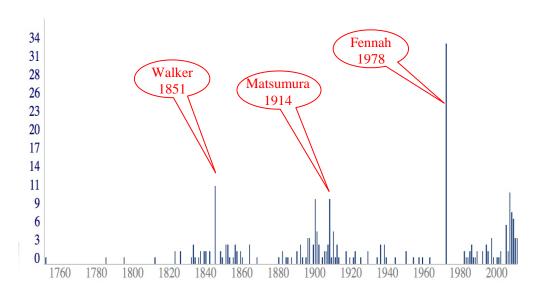


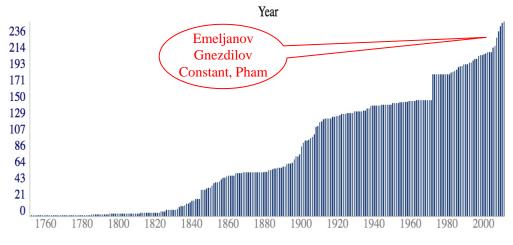


Case study: the Planthoppers of Vietnam

More taxonomic experts = more new species!







Year

"We only love what we know and we only protect what we love."

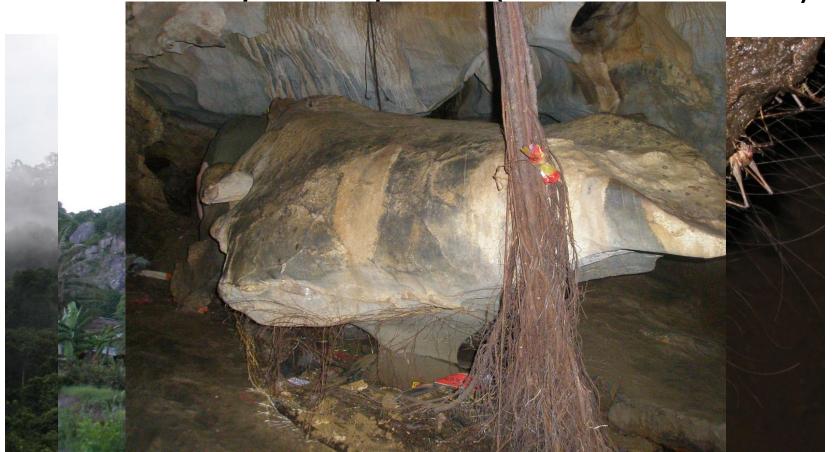
Konrad Lorenz



Insect biodiversity in Vietnam even higher than expected

Numerous peculiar habitats

= Lots of very local species (micro-endemism)



Case study: planthopper diversity

 Already very diverse but still very poorly known: 255 species in Vietnam

More efforts = more species





Rich but fragile: threats

- Deforestation
- Slash and burn agriculture
- Mining

Poaching

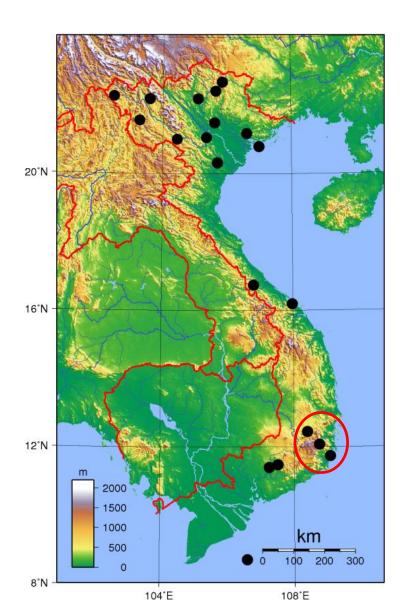


Sampled areas

Three locations over a short distance:

- Bidoup Nui Ba National Park
- Phuoc Binh National Park
- Nui Chua National Park

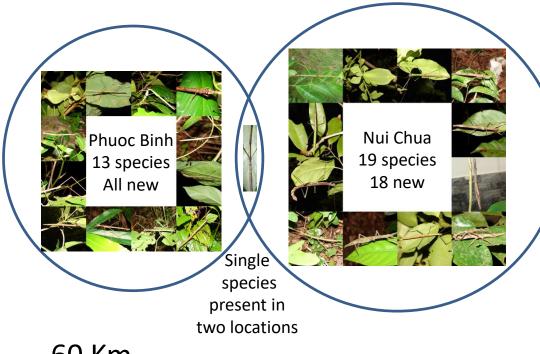




Each location contains its own unique species

Example of high rate of endemism in three protected areas of southern Central Vietnam.

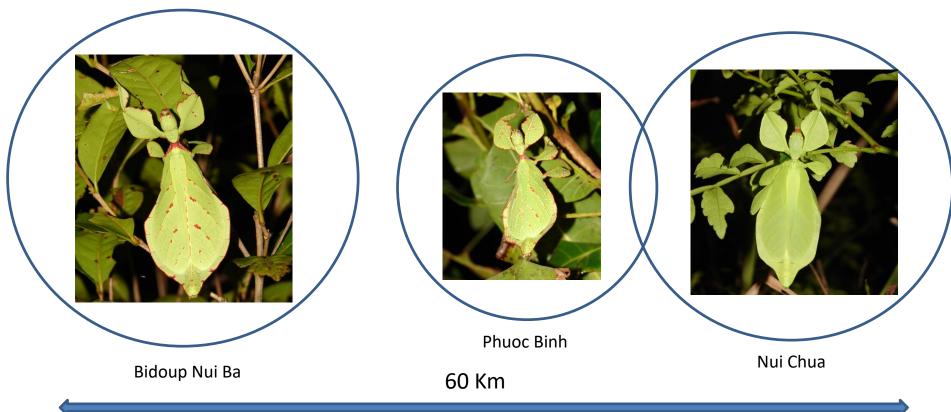




60 Km

Example of high rate of endemism in three protected areas of southern Central Vietnam

Three species of Leaf insects (Bo La – Vietnam Red Book)

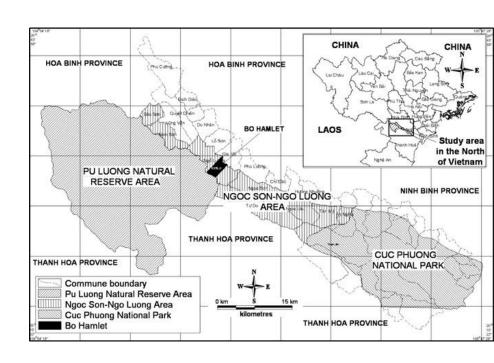


Important to create more protected areas

Ngoc Son – Ngo Luong Area

- Recently created (2006)
- Connection between Pu Luong and Cuc Phuong National Park (corridor)
 - Pu Luong: no data
 - Cuc Phuong: 33 species
 - Ngoc Son Ngo Luong: 42 species



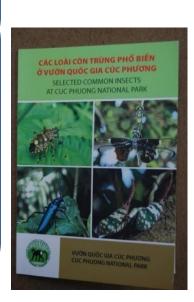


Important to connect protected areas with corridors

Lessons learnt and thoughts for the future

•Science:

- •Improve collecting and taxonomic capacities
- Explore and inventory peculiar habitats
- •Describe the new species
- International collaboration
- Complete hotspot status with insect diversity
- Management tools: Taxonomic lists, online access, digitalization for Vietnam and for each park
- Conservation
 - Communication
 - Education
 - Public awareness
 - Develop the CBD Clearing House Mechanism (CHM)
 - •Ecotourism



Vietnam = Hotspot also for insects!

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More taxonomic experts = more new species!

More efforts = more species

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