Entomology and stick insect diversity

Entomology

- Discipline within zoology
- Study of insects
 - Morphology
 - Behaviour
 - Life cycle
 - Pest species
 - Taxonomy

Taxonomy

- Classification
- Morphology
- Molecular data (DNA & phylogenie)
- Biological and zoogeographical data



The research

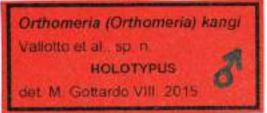
- Studying relationships between different stick insect species and the description of new species.
- "protocol"
 - Literature study
 - Studying type specimens
 - Field research
 - Preservation
 - Identification and (re)descriptions

Studying literature

- Publications of different authors
 - Descriptions
 - Images
 - References

Type specimens

- Holotype and paratype (allotype)
- Syntype
- Lectotype and paralectotype
- Neotype



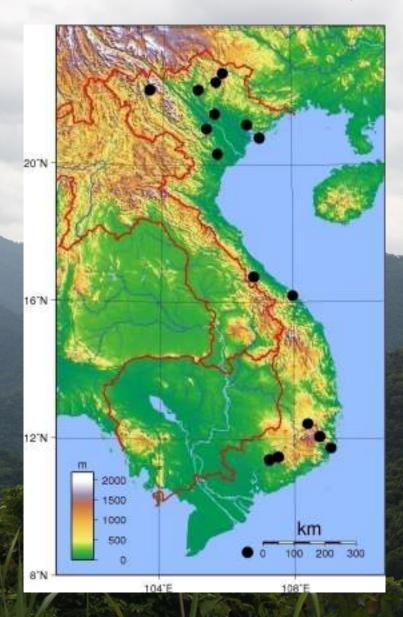
Philippines, Luzon Island, Benguet, Sablang, Barangay Bayabas, 5 VI.2014, leg. T. Heitzmann

5 mm

Field research

- Philippines
- Vietnam
 - A step further in the entomodiversity of Vietnam.
- Cambodia
 - Fostering Entomodiversity research in South-East Asia.
 Developing regional cooperation between Vietnam and Cambodia in insect taxonomy.

A step further in the entomodiversity of vietnam.



A "typical" collecting day

- Malaise traps
- Day collecting
- Light trapping
- Night collecting!

Malaise trap

Day collecting



Light trapping



Juna & Flora

Especially during nighttime
Material for future publications and presentations
Documenting biodiversity for other scientists

Stick insects(Phasmida)



Grasshoppers (Orthoptera)

Beetles (Coleoptera)

Station for the



Lizards



Snakes











Frogs and toads









Birds







Mammals



Flora



Preservation of the material

- In the field and transport
 - Mounting
 - Labelling, identification and incorporation in the collection

In the field and transport

- Killing jar
- Wood chips
- Ethyl acetate
- Zip-bags



Mounting and putting in the collection







Results Vietnam



More than 300 species collected and more than 200 new species 2 new genera and 8 new species described



Stick insects of Cambodia

 Only five species described and recorded from Cambodia

– Orestes mouhotii (Bates, 1865)

Stick insects of Cambodia (2)



Thank you for your attention