

Find it in Livingston

ENGLISH

Insects, amphibians and other creatures

Session 3/8

*Documentation Project of
the Biodiversity from Municipio de
Livingston, Izabal*



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1. Herbs, vines and epiphytes
2. Tropical trees and shrubs
3. Insects, amphibians and other creatures
4. Parks and Reserves in the Caribbean
5. Tropical Animals
6. Palms
7. Aquatic plants and ferns
8. Mushrooms and lichens

CONTENT

- General introduction
- Specific data for this group of fauna
- Location of species on the FLAAR Mesoamerica catalogs

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Heliconia aurantiaca – Livingston Project

Heliconia leaves can be used in a variety of situations, especially to replace tin on thatched roofs. It definitely has good potential to attract ecotourists. Knowing that it has been found north, south, east, and west of where the team will be working in Izabal, it can be estimated that other species of heliconia can be found.

[Free download](#)

Categories: Ethnobotany, Livingston Project, Plants
Tags: Flora, Guatemala, Heliconia, Izabal, Livingston Project



INSECTS

MANTODEA, Tajón Creek, Municipio de Livingston,
Fotografía por: Brandon Hidalgo, FLAAR Mesoamerica.



AMPHIBIANS

Fotografía por: Alejandra Gutiérrez, FLAAR Mesoamerica.



INSECTS

Fotografía por: Brandon Hidalgo, FLAAR Mesoamérica.



ARACHNIDS

Fotografía por: Haniel López, FLAAR Mesoamérica.



AMPHIBIANS



REPTILES

Norops sp., Tipón Creek, Municipio de Livingston



01

Livingston's Arachnids, Insects, and Other Creatures

by María José Toralla
Biology student (USAC)
Research assistant (FLAAR)

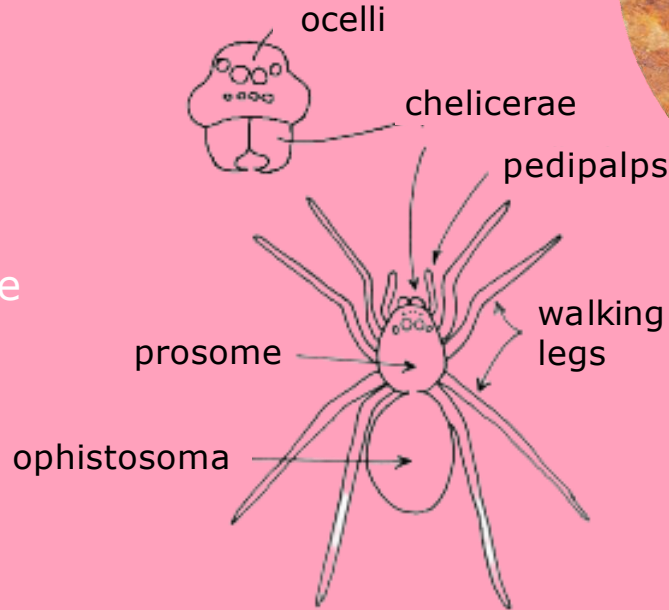


02

Arachnids

Predators and parasites: spiders, scorpions, opilions, mites and ticks.

- Chelicerae
- Pedipalps
- Venom glands
- Lots of eyes
- Lack of antennae



Chelicerae



In Livingston

- *Phrynus operculatus* and *Phymus parvulus*
- Petén, Alta Verapaz, Guatemala, Sacatepéquez and Izabal
- Tapon Creek and El Rosario



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Insects



They are easily distinguished because most have six legs, four wings and two antennae.

Unlike arachnids, the body is divided into three sections:

- 1.Head:** sensory and food
- 2.Thorax:** locomotion
- 3.Abdomen:** internal apparatus



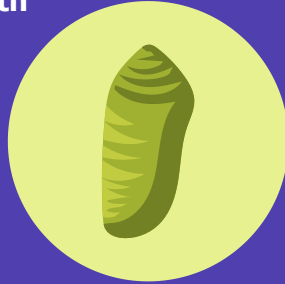
Types of growth



Direct growth

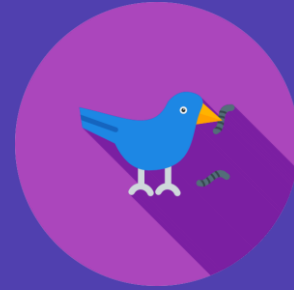


**Incomplete
metamorphosis**



**Complete
metamorphosis**

Ecological function



Food



Pollination



decomposers



06

In Livingston

- In Guatemala there are insects from 1mm to 20mm wingspan.
- Lagunita Creek, Tapon Creek, Río Chocoón Machacas and Río Blanco.
- Butterflies *Rhetus arcus**, in Río Blanco

—> *unofficial identification



Chalcidoidea
Parasitic wasps



*Rhetus arcus**

Amphibians

Cecilia, salamanders, frogs and toads

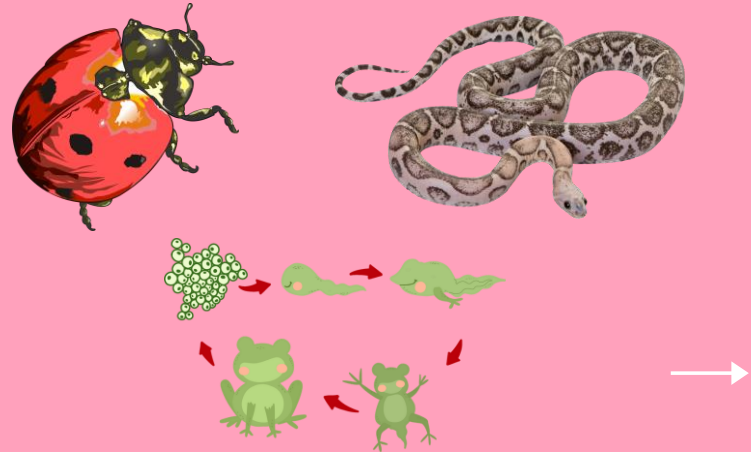


07

Characteristic:

- With mucous and poisonous glands.
- They lay shell-less eggs.
- They undergo metamorphosis.
- They are highly endangered vertebrates.

Ecological function:



In Livingston



Tlalocohyla loquax

In Guatemala is the Cerro San Gil, which covers the municipalities of Puerto Barrios, Livingston and Morales in Izabal.

This is an important biological zone that includes several species of amphibians including:

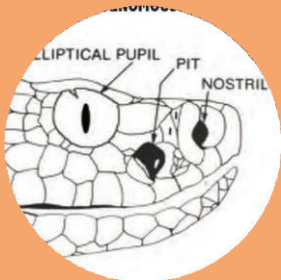
- *Tlalocohyla loquax*
- *Leptodactylus pentadactylus*
- *Agalychnis callidryas*





- Dry skin covered with scales.
- Ectotherms.
- They have very good vision and some lack eyelids.
- Thermo-sensory pits.

1. Turtles
2. Lizards and snakes
3. Crocodiles
4. Tuataras



09

Reptiles



In Livingston

There are **386** species of reptiles in
Guatemala and **134** are snakes



Clelia clelia

Coniophanes imperialis



Thanks for
your
attention

11



You can contact me via email at:
majotorallaflaar@gmail.com

Location of species on the FLAAR Mesoamerica catalogs

FLAAR Mesoamerica 2022

Project: Documentation of the Biodiversity from
Municipio de Livingston, Izabal
Photographic record from FLAAR Mesoamerica

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