The Atlas of Living Australia

Understanding Biodiversity

Biodiversity information

Braconidae - ? *Chaoilta sp.*

Parasitises

Huntsman spider
Holconia montana

Preys upon

Feeds upon

Tagasaste (tree lucerne)
Chamaecytisus palmensis

Uresiphita ornithopteralis (Guenée, 1854)

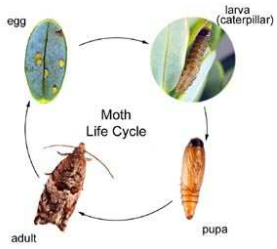
= *Mecyna ornithopteralis* Guenée, 1854

English: tree lucerne moth

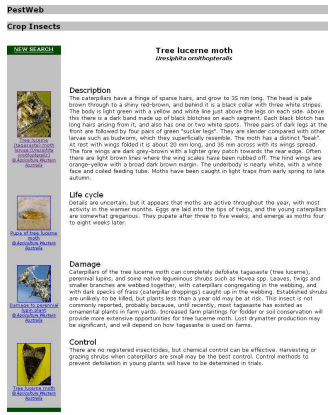
Identified as

Kingdom: Animalia
Phylum: Arthropoda
Class: Insecta
Order: Lepidoptera
Family: Crambidae
Subfamily: Pyraustinae
Tribe: Pyraustini
Genus: *Uresiphita* Hübner, 1825

Biology and ecology



Fact sheets



Molecular biology

All Leps Barcode of Life

Locality: Reid, ACT
GPS: 35.280S 149.138E
Date: 1 January 2008

Distribution

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Uses: Biosecurity

- Questions
  - What is this organism?
  - What does it eat?
  - Does it carry disease?
  - Could it spread in Australia?
  - How can it be controlled?
- Information needed
  - Names and classification
  - Identification keys
  - Images
  - Distribution data
  - Food webs
  - Literature (biology and control)

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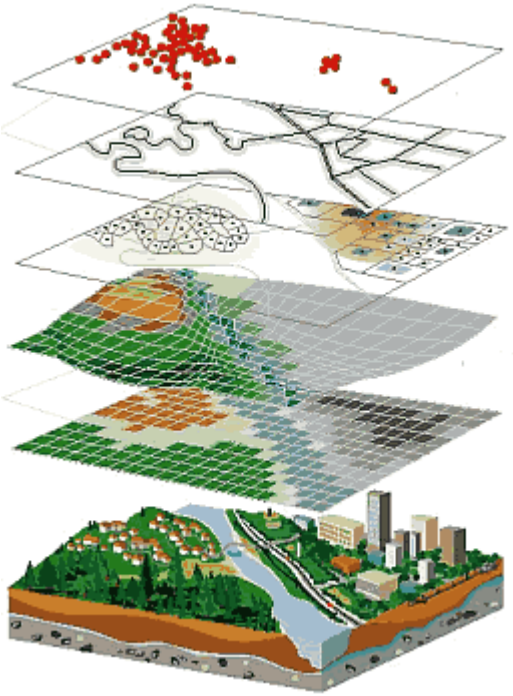
Uses: Land-use planning

- Questions
  - What species are found here?
  - Are they threatened?
  - What are their needs?
  - How can impacts be minimised?
  - How can habitats be restored?
- Information needed
  - Names and classification
  - Distribution data
  - Food webs
  - Literature (biology and control)



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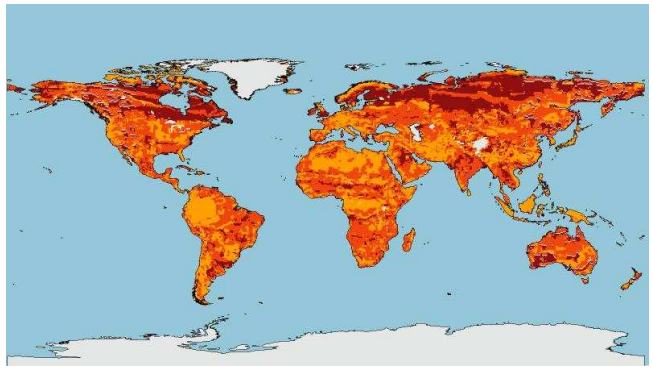
Uses: Conservation and climate change

- Questions
  - Which species will be affected?
  - How will their ranges be affected?
  - Can they colonise more favourable regions?
  - Will pest species benefit?
- Information needed
  - Names and classification
  - Climate change models
  - Distribution data
  - Environmental niche models
  - Food webs
  - Literature (conservation and biology)



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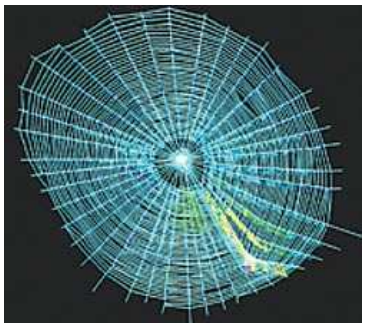
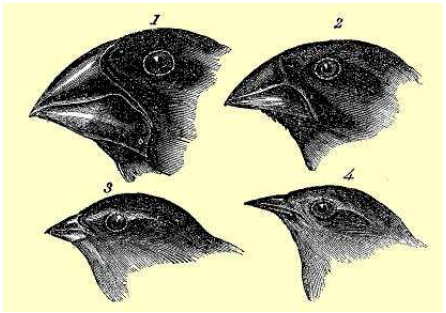
Other uses

- Crop improvement
- Sustainable use
- Health and medicine
- Biomaterials
- Forensics
- Taxonomy





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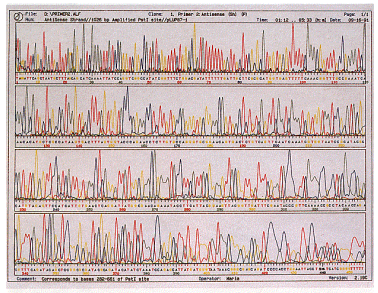
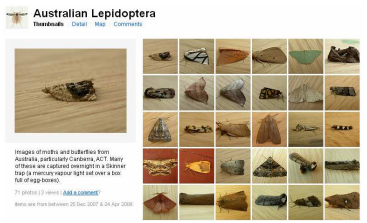
Sources of biodiversity information

- Natural history collections and herbaria
- Living collections
- Field studies
- Literature
- Molecular research
- Images and multimedia
- Experts





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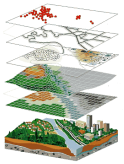
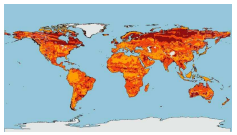
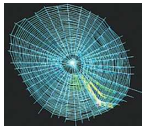
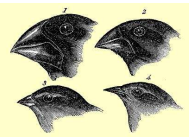
Making information available to users







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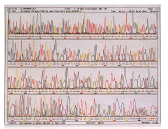
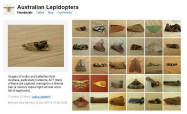

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Atlas of Living Australia

- Government-funded (NCRIS) project to June 2011
- Mission:
  - To develop an authoritative, freely accessible, distributed and federated biodiversity data management system
  - To share biodiversity knowledge to shape our future
- Participants
  - CSIRO
  - The Australian Museum
  - Museum Victoria
  - Queensland Museum
  - The Tasmanian Museum and Art Gallery
  - Southern Cross University
  - The University of Adelaide
  - DAFF
  - DEWHA
  - CHAH
  - CHAFC
  - CHAEC
  - AMRRN

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Thank you

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