

Peter Lillywhite
Senior Collection Manager
Entomology/Arachnology
Museum Victoria (Aust.)





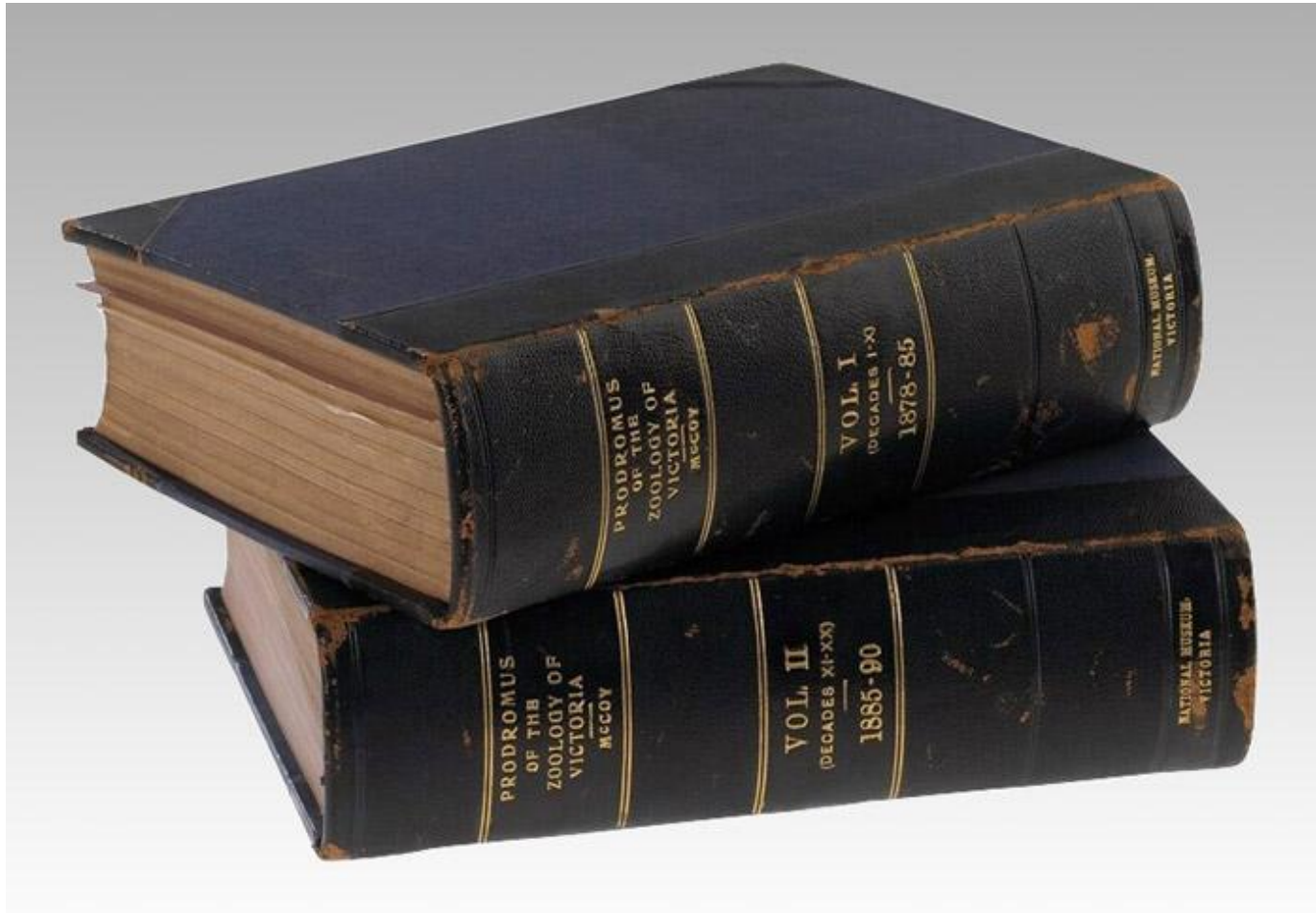
**THE PROCESSES, END USES AND
UNEXPECTED BONUSES OF HIGH
RESOLUTION IMAGING OF
ENTOMOLOGY COLLECTION ITEMS**

Salticidae
Lycidas sp.6

0.5 mm

Using imaging
techniques to bring
Museum collections
to a wider audience
is nothing new

McCoy's Prodromus 1878 - 1890





Drawn by A. Bartholomew
J. M. Lloyd sculp.

Prof. M. C. J. direct

J. M. Lloyd sculp.

Printed at the Steam Press of the Geological Survey branch for Printing Office Melbourne.



A. Bartholomew del.
J. M. Lloyd sculp.

Prof. M. C. J. direct

Steam Litho Co's Printing Office



LVII.
Imagines
hatched in alcohol
(since 1851)

Dissection
of the
larva of
the
moth
of 1851

D. 645.
Large form from the
large collection
from the
Alps

Large form from the
large collection
from the
Alps

712
1851

712
1851

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1851

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1851

712
1851

- In 2003 the Entomology Dept at Museum Victoria first started working with high resolution, stacked images.

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- Funding sources:

Money from Federal Department of Agriculture, Fisheries and Forestry DAFF and Plant Health Australia through Australian Quarantine and Inspection Services AQIS

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- Initially this paid for equipment and software, later a dedicated technician

PaDIL

An online tool for the
identification of plant pests and
diseases for the purposes of
biosecurity control.







PaDIL – High quality images and Information tools designed for Biosecurity and Biodiversity.

Biosecurity and Biodiversity : protecting against invasive pests and diseases and discovery of native species.

The Plant Biosecurity Cooperative Research Centre (PBCRC) has taken over responsibility for maintaining PaDIL during 2014 pending the development of a Business Plan to determine its future role and viability.

During this period, please email padil@pbcrc.com.au for all PaDIL related enquiries.

[Biosecurity](#) [Search-lite](#) [Bowerbird](#) [Biodiversity](#)

Search-lite.

Search-lite is the simplest and fastest way to find something in PaDIL.

PaDIL

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Pestpoint

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BowerBird

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[Sightings](#)
[Projects](#)

Large elm beetle

Scolytus scolytus (Fabricius, 1775)

(Coleoptera: Curculionidae: Scolytinae: Scolytini)

Status

Exotic species - absent from Australia

Reliability

High

Download

PDF

Main

Other Names

Commodity Type

Distribution

References

Web Links

Head front male



0.5 mm

Caption Pietsch-Ohlqu, Sil, CNHM 1955, Karl Branski
Coll. ex Edward Knirsch

Source Simon Hinkley & Ken Walker [Museum Victoria](#)

Close

Diagnostic Images (10)

Abdomen view
male

Dorsal view male

Elytra male

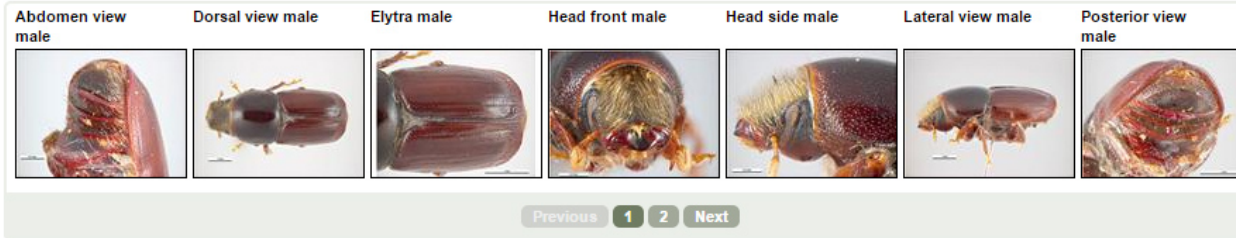
Head front male

Head side male

Lateral view male

Posterior view
male

Diagnostic Images (10)



Other Images (6)



Diagnostic Notes

Cylindrical bark beetle with a shiny black pronotum and red-brown elytra; abdomen has a declivity with tubercles on the third and fourth sternites (more so in the male); edge of frons above mandibles has a minute tubercle on either side; male bodylength 3-5mm, frons flat, with dense cover of hair, lateroapical regions of elytra with row of long, yellow bristles; female body length 4-6mm, frons weakly convex and with weak cover of short hair.

Source:

Vladimir Novak, F. Hrozinka & B. Stary (1976). Atlas of insects harmful to forest trees Volume 1. Elsevier Scientific Publishing Company.

Related Species

[almond bark beetle - \[Scolytus amygdali\]](#)
[White beech bark beetle - \[Scolytus carpini\]](#)
[elm bark beetle - \[Scolytus ensifer\]](#)
[European oak bark beetle - \[Scolytus intricatus\]](#)
[Kirsch bark beetle - \[Scolytus kirschii\]](#)
[middle elm tree split bark beetle - \[Scolytus laevis\]](#)
[Larger shothole borer - \[Scolytus mali\]](#)
[European elm bark beetle - \[Scolytus multistriatus\]](#)
[Elm bark beetle - \[Scolytus pygmaeus\]](#)
[The birch sapwood borer - \[Scolytus ratzeburgi\]](#)
[Shothole Borer - \[Scolytus rugulosus\]](#)
[Banded elm bark beetle - \[Scolytus schevyrewi\]](#)
[bark beetle - \[Scolytus sulcifrons\]](#)

More Information

Author	Walker, K.
Created	30/04/2006 11:22 AEST
Last Updated	27/09/2010 09:54 AEST
Citation	Walker, K. (2006) Large elm beetle (<i>Scolytus scolytus</i>) Updated on 9/27/2010 9:54:15 AM Available online: PaDIL - http://www.padil.gov.au .
Image Use	Free for use under the Creative Commons Attribution 3.0 Australia License

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Home ▸ Australian Biosecurity ▸ Large elm beetle

Large elm beetle

Scolytus scolytus (Fabricius, 1775)

(Coleoptera: Curculionidae: Scolytinae: Scolytini)

Status

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PDF

Main

Other Names

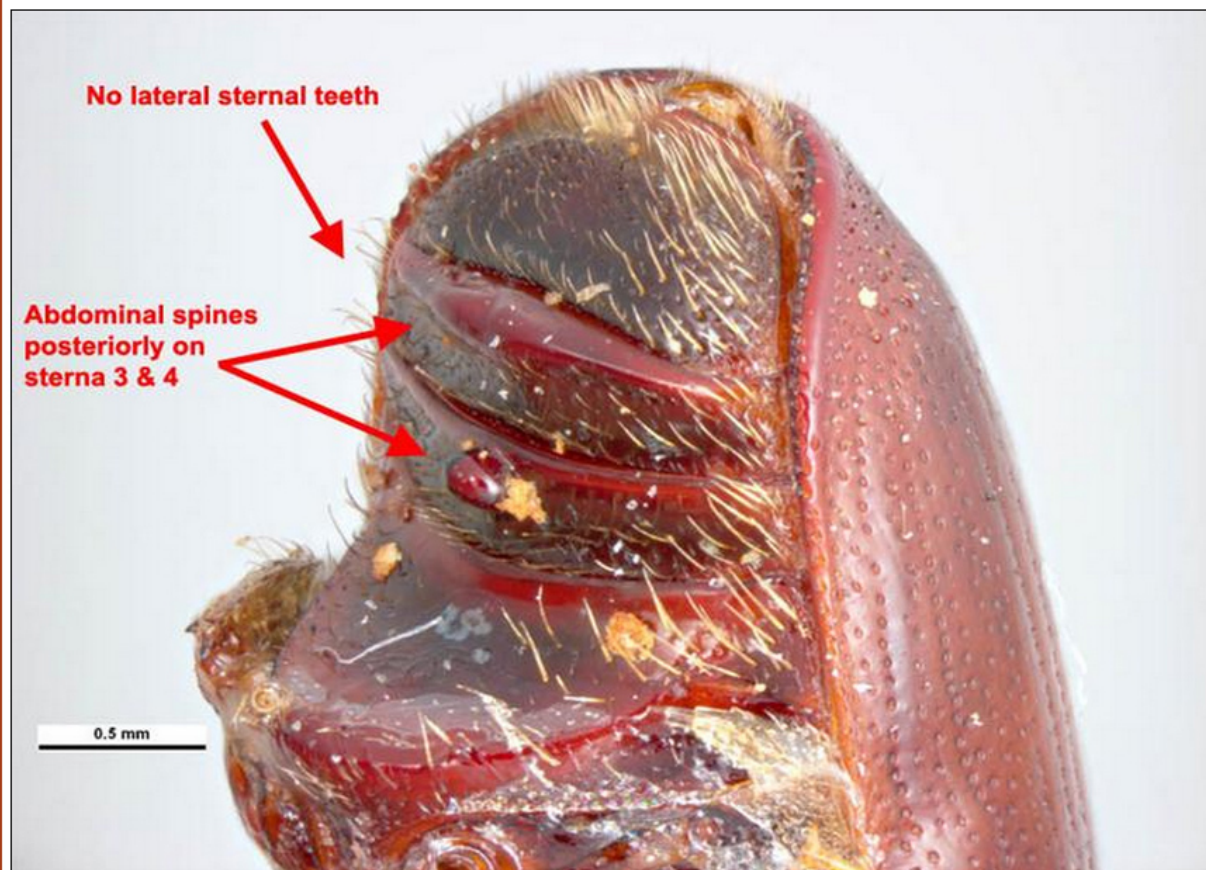
Commodity Type

Distribution

References

Web Links

Male Sternal characters



Caption: Pietsch-Ohlqu, Sil, CNHM 1955, Karl Branski
Coll. ex Edward Knirsch

Source: Simon Hinkley & Ken Walker [Museum Victoria](#)

Museum Victoria,
Insect Primary Type
Imaging Project

Asarapoda meltonensis
Holotype female

T-11867



5 mm

Asarapoda meltonensis
Holotype female

T-11867



5 mm

HOLOTYPE
T-11867
Asaropoda
meltonensis

Pur by W.
Wilson
21.6.20

Nat. Mus.
Victoria

This and many more
of them were buzzing
around, and alighting
on Loranthus.

Asaropoda ♀
meltonensis
RITM.

TYPE



Catalogue



Taxonomy



Sites



Collection Events



Accession Lots



Events



Transactions



Locations



Conservation



Bibliography



Rights



Parties



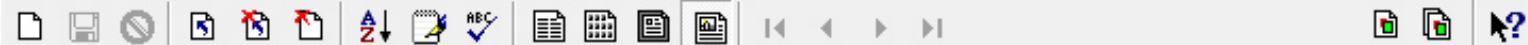
Narratives



Multimedia

Catalogue (1) - Display

File Edit Select View Tools Tabs Parts Archives Multimedia Window Help

T 11867. *Asarapoda meltonensis* Rayment : Apidae : Hymenoptera : Insecta : Arthropoda, Australia, Victoria.

1018274



Asarapoda m...



Asarapoda m...



Asarapoda m...



Resource Information

Title: *Asarapoda meltonensis*, Rayment

Creator: 1 Hoath, Kisty

MIME Type: image

MIME Format: jpeg

Identifier: *Asarapoda meltonensis* T-11867_holotype_female_dorsal.jpg

Description

Asarapoda meltonensis, holotype T 11867, dorsal view.

Specimen

Spec. Storage

Locality

References

Associations

Notes

Multimedia

Condition

Exhibit

Display Object 1 of 1

plwhite

grp NatSci Admin

Emu

Capturing high resolution
images of whole drawers
of insect specimens

Hasselblad H4D-200MS Camera



Themognatha
maculiventris
(MacL.)



Themognatha
miranda
(Cart)



Holotype ♂




Allotype ♀



Catalogue (1) - Display

File Edit Select View Tools Tabs Parts Archives Multimedia Window Help



T 6104. *Stigmodera (Themognatha) miranda* Carter : Buprestidae : Coleoptera : Insecta : Arthropoda. ( 1005446



000111984c.tif



Resource Information

Title: Buprestidae, Jewel Beetle

Creator: 1 Paul, David

MIME Type: image

MIME Format: tiff

Identifier: 000111984c.tif

Description

Buprestidae, Jewel Beetle. Dry collection specimen

Notes

Multimedia

Location

Dimensions

Condition

Exhibition

Transactions

Admin

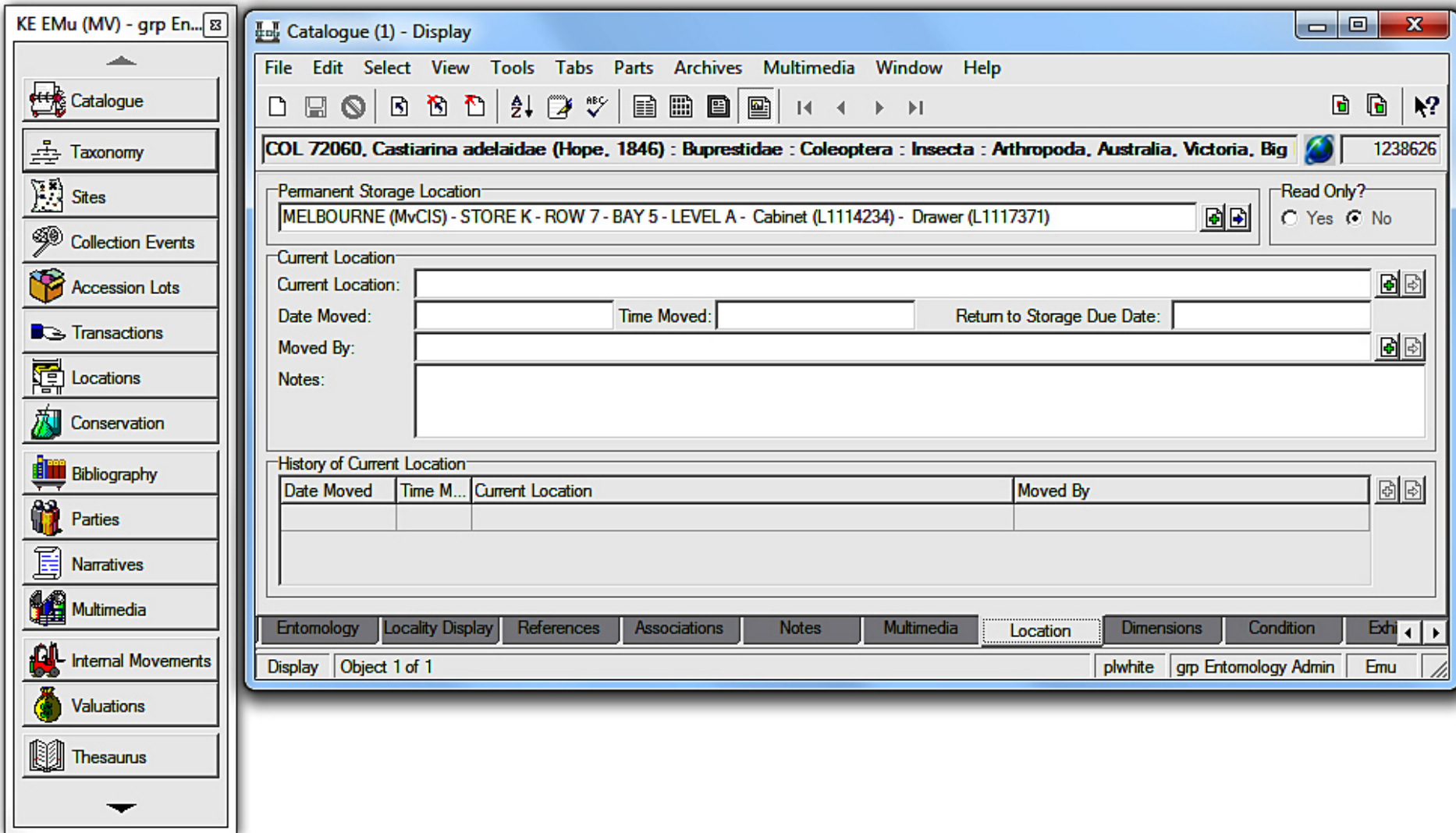
Display Object 2 of 4

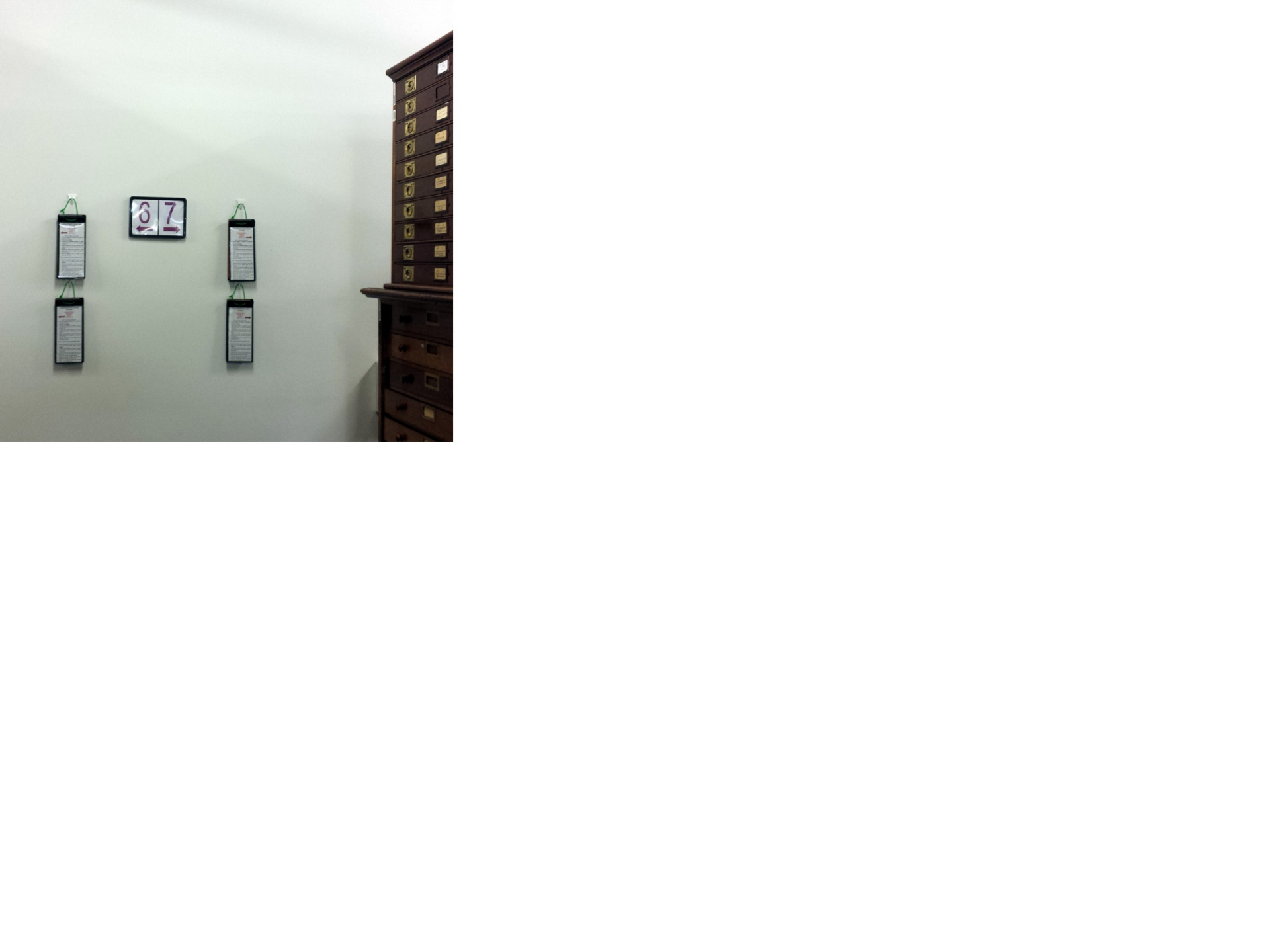
plwhite

grp Entomology Admin

Emu

The bar-coding process





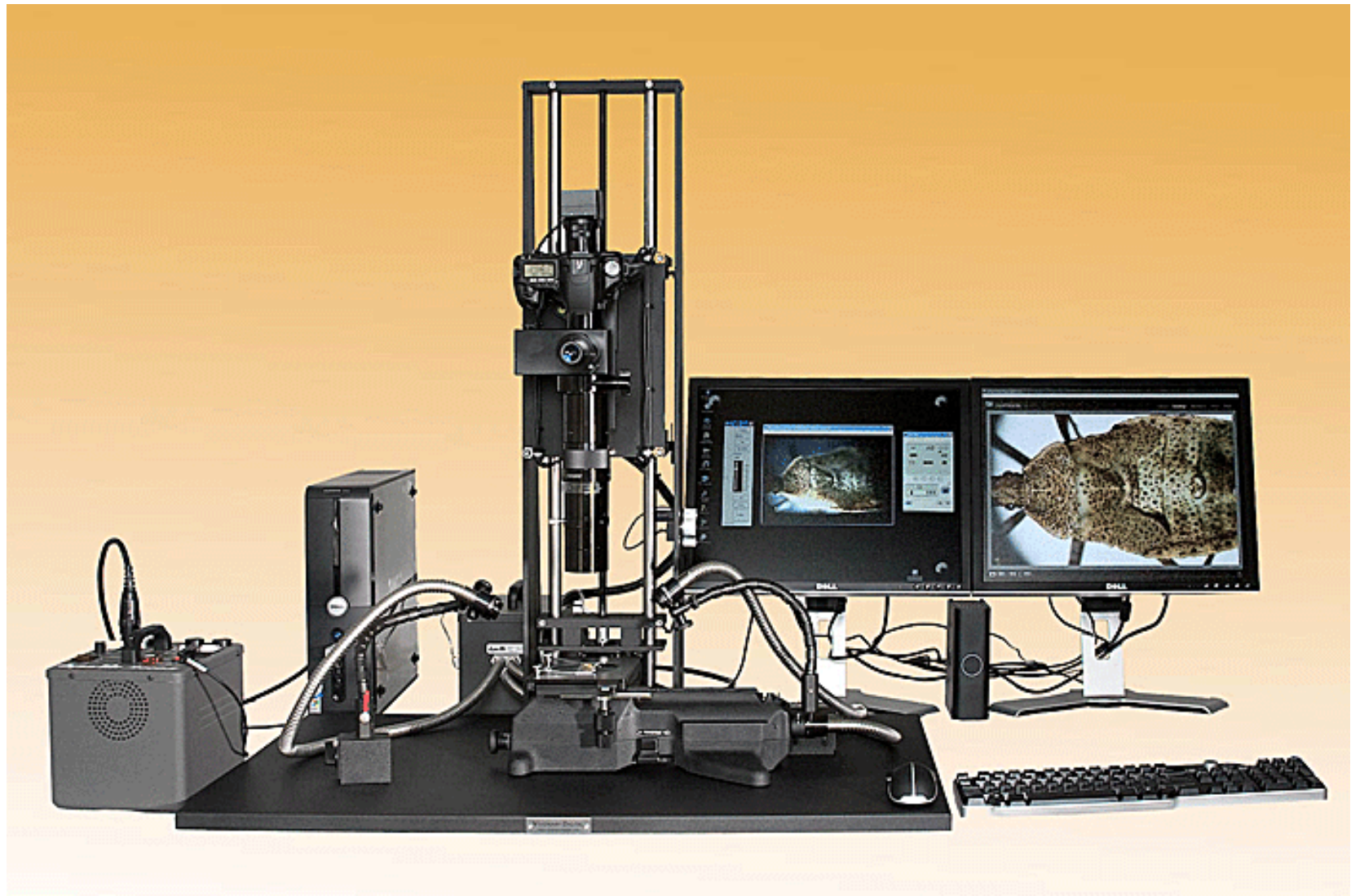






Better pictures of
individual, single
species, unit trays

Visionary Digital BK Plus Lab System



Single Image



10 mm

Stacked
image





single



stacked



Single image



Stacked image

Educational and Exhibition
related by-products of
the programs

- School Holiday program. The variations in insect antennae

neuropteran_003 copy (3131x2327x16M tiff)



odonata_001 (3131x2327x16M tiff)



- School Holiday program. The variations in insect antennae
- Posters. The alphabet and number found in butterfly wings

ALPHABETERFLIES

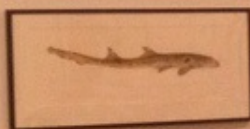
- School Holiday program. The variations in insect antennae
- Posters. The alphabet and number found in butterfly wings
- Exhibitions. The Art of Science



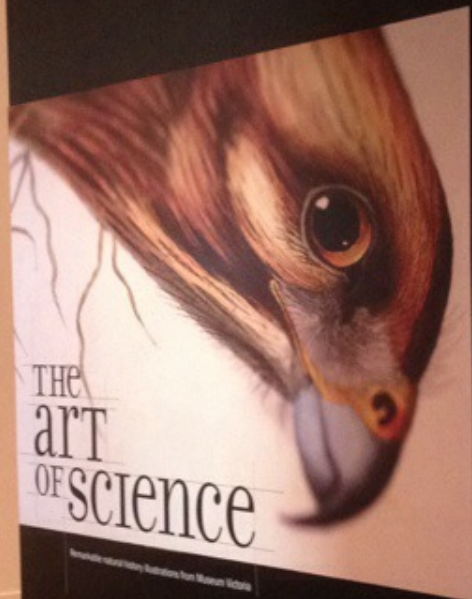
Small informational label below the skull illustration.



Small informational label below the skull illustration.



Small informational label below the bird illustration.



Remarkable natural history illustrations from Museum Victoria

MV



Small informational label below the bird illustration.



Salticidae
Lycidas sp.6

0.5 mm



1 mm

Field guides

- Mobile phone and tablet apps.

Bunurong Marine Park Field
Guide.

Field Guide to Victorian Fauna

BUNURONG

Marine National Park

Field Guide

Do and See

Species

Maps

Gallery


Explore diverse wildlife and discover outdoor activities on offer in the Bunurong Marine National Park on Victoria's eastern coastline.

Sea snails...

2:47 pm

97%

Bivalve Mollusc



Spisula trigonella, shell interior.

Credit: David Staples / Museum Victoria

Bivalve Mollusc

Spisula trigonella

Identifying Characteristics

The shells of this species are small, quite solid, chalky and more or less triangular in shape. External coating (periostracum) brown. Hinge with grooved 'teeth'. Shell up to 25 mm across.

Biology

This species can be the dominant species in some locations. It is recorded by some earlier authors under a different scientific name.

Diet

Organic matter

Habitat

In sand and mud areas, particularly at river mouths, to depth of 1 m.

Distinctive Characters

Triangular, grooved hinge teeth.


Commonly Seen

Above surface

Surface

Midwater

On or near sea floor




Depth

Sea snails...

2:54 pm

95%

Commercial Scallop



Commercial Scallop, Pecten fumatus; shell interior.

Credit: David Staples / Museum Victoria

Commercial Scallop

Pecten fumatus

Brief Description

One valve concave and one valve flat, 12-16 radial ribs.

Identifying Characteristics

Shells of this species are characterised by a flat left valve, and a strongly convex right valve, each with 12-16 strong radial ribs. The external shell colour is extremely variable among specimens, ranging from light brown to pink and orange. Shell up to 14 cm across.


Biology

Commercial Scallops were thought to be a number of different species because patterns on their shells are extremely variable, but genetic studies have shown

Distribution

Most states of Australia.

Recorded Observations





2:48 pm

97%

Sea snails...

Welcome



MUSEUM VICTORIA
FIELD GUIDE
TO VICTORIAN FAUNA



Explore Australia's unique and diverse wildlife at home or in the field.

Animals

About



Field guides

- Mobile phone and tablet apps.

Bunurong Marine Park Field
Guide.

Field Guide to Victorian Fauna

- Books. Moths of Victoria series

Anisozya insperata (Walker, 1861)

Page 1/2



♂ Dromana
16 November, 1980
Wingspan: 24.5 mm
Collector:
D.R. Holmes

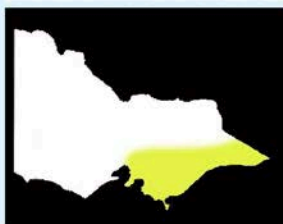
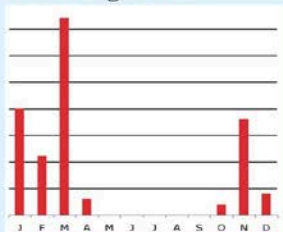
D. R. HOLMES
DROMANA,
VIC., AUST.
16-11-1980



♀ St Kilda
25 October, 2005
Wingspan: 27 mm
Collector:
A. Kallies

Australia Victoria
Melbourne, St Kilda
25. Oct. 2005, dusk
leg. A. Kallies

Adult flight times



Victorian specimen data:
96 specimens (Melbourne Museum, ANIC,
A. Kallies, M. Hewish, author)

Victorian localities include:
Brighton, Red Hill, Tyers Junction,
Gipsy Point

Australian distribution:
Also Queensland, NSW (ANIC)

Notes:
Larvae feed on Cherry Ballart (*Exocarpos
cupressiformis*). Males are far more
common at lights than females.

Anisozya metaspila (Walker, 1861)

Page 1/2



♂ Gembrook
27 January, 2009
Wingspan: 31 mm
Collector:
P. Marriott et al.

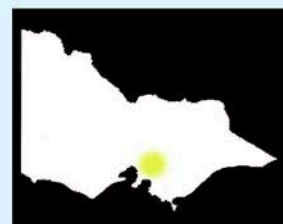
Australia Victoria,
E of Melbourne, Gembrook
Gilwell Park, S37°26' E145°39'
27. Jan. 2009, lux
leg. P. Marriott & B. Mollet



♀ Tynong North
3 February, 2007
Wingspan: 32 mm
Collector:
A. Kallies et al.

Australia Victoria
E of Melbourne, Bunyip State
Park near Tynong North
3. Febr. 2007 lux
leg. A. Kallies & P. Marriott

Adult flight times:
The Victorian
records are for
January and
February.



Victorian specimen data:
3 specimens (A. Kallies, author)

Victorian localities include:
Gembrook, Tynong North

Australian distribution:
Also Queensland, NSW

Notes:
Victorian specimens are among the more
strongly marked of this variable species.
This species may belong to the genus
Eucyclodes. The name used here is from
The Checklist of Australian Lepidoptera
(1996).

- Data and Image aggregation sites such as:

The Atlas of Living Australia

[Home](#) → [Collections](#)

Australia's natural history collections

Learn about the institution, the collections they hold and view records of specimens that have been databased. Currently only the collections of Australia partners are shown. Over time this list will expand to include all natural history collections in Australia.

Click a button to only show those organisms.

All collections

Show all 164 collections.



Fauna

Mammals, birds, reptiles, fish, amphibians and invertebrates.



Insects

Insects, spiders, mites and some other arthropods.



Microorganisms

Protists, bacteria, viruses, microfungi and microalgae.



Plants

Vascular plants, algae, fungi, lichens and bryophytes.



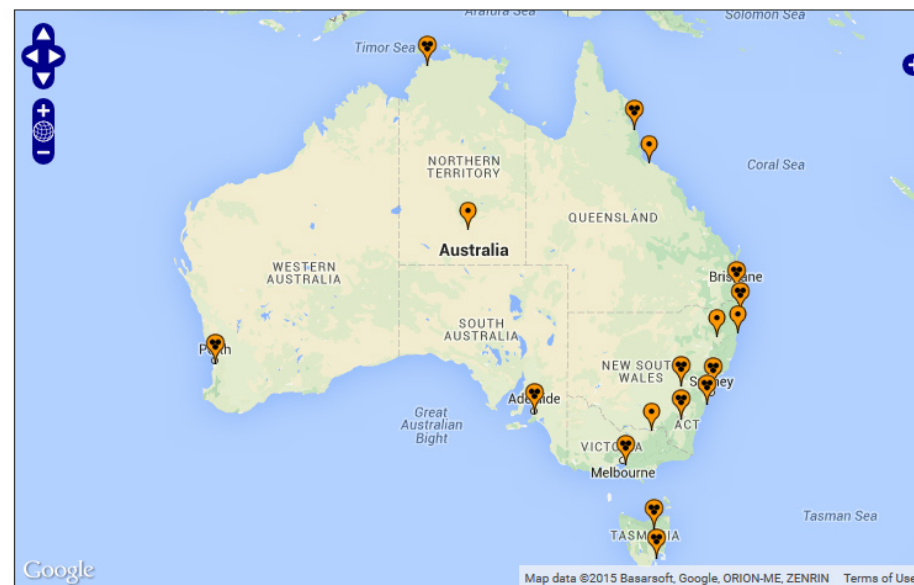
164 collections in total.

159 collections are currently visible on the map.

Admin

Map**List**

Click on a map pin to see the collections at that location. Use the map controls to zoom into an area of interest. Or drag your mouse while holding the shift key to zoom to an area.



indicates there are multiple collections at this location.

Original vs Processed

Images



Photographer: Hoath, Kristy
Rights: Dataset licensed under Creative Commons Attribution (CC-BY) 4.0 Australian license. Use of data of individual specimen occurrences does not require attribution on a per record basis.
[View image details](#)

Location of record



Date loaded: 2014-08-25
Date last processed: 2014-09-27

Rights	Dataset licensed under Creative Commons Attribution (CC-BY) 4.0 Australian license. Use of data of individual specimen occurrences does not require attribution on a per record basis.
Associated Occurrence Status	Associated record
Inferred Associated Occurrences	The occurrence is associated with a representative record. For more information see Inferred associated occurrence details
Institution id	NMV
Photographer	Hoath, Kristy
Collection code	Entomology
Occurrence status	present
Dataset id	Entomology
Language	en
Owner institution code	NMV
Collection id	urn:lsid:biocol.org:col:34978

Taxonomy

Higher classification	Animalia;Arthropoda;Uniramia;Insecta;Coleoptera;Scarabaeidae;Cetoniinae
Scientific name	<i>Dilochrosis walteri</i> Supplied scientific name " <i>Dilochrosis walteri</i> Lea"
Original name	Dilochrosis walteri Lea
Taxon rank	Species
Common name	Species
Kingdom	ANIMALIA
Phylum	ARTHROPODA
Class	INSECTA Supplied as "Animalia;Arthropoda;Uniramia;Insecta;Coleoptera;Scarabaeidae;Cetoniinae"
Order	COLEOPTERA
Family	SCARABAEIDAE
Genus	<i>Dilochrosis</i>
Species	<i>Dilochrosis walteri</i>
Taxonomic issues	No issues
Name match metric	Canonical name match

Occurrence record: Entomology:T3225

Melobasis radiola

[Back to search results](#)



Data quality tests

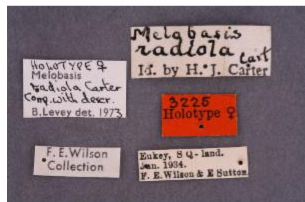
failed: 0
warnings: 1
passed: 26
missing: 12
unchecked: 44

[View full data quality report](#)

[Flag an issue](#)

[Original vs Processed](#)

Images



Photographer: Gibson, Lucinda

Rights: Dataset licensed under Creative Commons Attribution (CC-BY) 4.0 Australian license. Use

Dataset

Data provider	OZCAM (Online Zoological Collections of Australian Museums) Provider
Data resource	Museum Victoria provider for OZCAM
Institution	Museum Victoria Supplied institution code "NMV"
Collection	Museum Victoria Entomology Collection
Catalogue number	T3225
Occurrence ID	urn:lsid.ozcam.taxonomy.org.au:NMV:Entomology:PreservedSpecimen:T3225
Basis of record	Preserved specimen
Preparations	fixativeTreatment=pinned
Type status	Holotype
Sex	Female
Individual count	1
Rights	Dataset licensed under Creative Commons Attribution (CC-BY) 4.0 Australian license. Use of data of individual specimen occurrences does not require attribution on a per record basis.
Institution id	NMV
Photographer	Gibson, Lucinda
Collection code	Entomology
Occurrence status	present
Dataset id	Entomology
Language	en
Owner institution code	NMV
Collection id	urn:lsid.biocol.org:col:34978

Taxonomy

- Data and Image aggregation sites such as:

The Atlas of Living Australia.

AntWeb.

Current Statistics

15,836 valid species + ssp.
 35,997 total species + ssp.
 525,612 specimens
 16,064 species + ssp. imaged
 39,867 specimens imaged
 171,182 total specimen images

AntWeb is the world's largest online database of images, specimen records, and natural history information on ants. It is community driven and open to contribution from anyone with specimen records, natural history comments, or images.

Our mission is to publish for the scientific community high quality images of all the world's ant species. AntWeb provides tools for submitting images, specimen records, annotating species pages, and managing regional species lists. More...

Recent Images:

CASENT0318421: Stigmatomma mg01
 CASENT0042899: Stigmatomma mg05
 CASENT0121332: Stigmatomma mg04
 CASENT0366766: Stigmatomma mg06
 CASENT0318428: Stigmatomma mg02
 CASENT0107483: Stigmatomma mg01

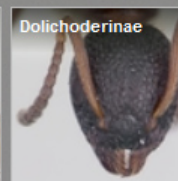
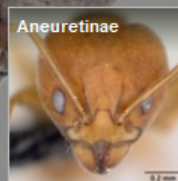
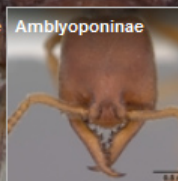
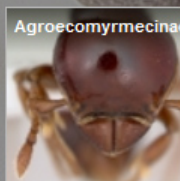
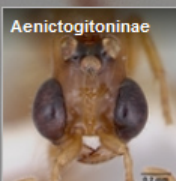
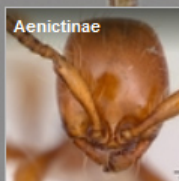
More »

Recent Edits:

Species: Strumigenys godeffroyi
 Species: Polyrhachis illaudata
 Genus: Harpegnathos
 Genus: Mesoponera
 Species: Myrmecina urbanii
 Genus: Strumigenys

More »

Background image: Specimen: CASENT0006837 Species: Myrmoteras iridum



Featured Curators



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 University of California, Davis



Lloyd Davis
 Florida Ant Mafia



Corrie S. Moreau
 Field Museum



James Trager
 Missouri Botanical Garden



Jack Longino
 University of Utah



Brian L. Fisher
 California Academy of Sciences

Meet the rest of the team!

Many curators already contribute to AntWeb - would you like to join us? Curators can edit the home page of the geographic section they curate, upload specimen data and authority files, and control a number of other aspects of their project. Learn how to submit data to Antweb.

If you would like to join us, contact us at - antweb@calacademy.org.

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Ant Course is a 10-day workshop designed for systematists, ecologists, behaviorists, conservation biologists, whose research require a greater understanding of ant taxonomy and field research techniques. Emphasis is on the evolution, classification and identification of ant genera. [Read More »](#)

Bay Area Ants Survey

The 11-county Bay Area is home to more 100 types of ant species. Visit AntWeb's Bay Area Ant Survey to find out how to become a Citizen Naturalist and help discover and learn about the ants in your backyard, schools and local Bay Area parks.

World Ant Collections

We at AntWeb have been busy taking photos of many of the world's great ant collections. Visit the AntWeb World Ant Collection to see the collections and get information about where they are housed.

1 mm

Specimen: ANTWEB1008290 *Myrmecia rubicunda* [Overview](#) | [Images](#)

Classification: Order: Hymenoptera Family: Formicidae Subfamily: Myrmeciinae Genus: *Myrmecia* Species: *rubicunda* Specimen: ANTWEB1008290

Persistent Identifier:

<http://www.antweb.org/specimen/ANTWEB1008290>


Locality Information:

Locality: **Australia: South Australia: Ooldea**
Latitude: **0.0**
Longitude: **0.0**
Lat/Long Max Error:
Elevation
Elevation Max Error:
Locality Notes:

Collection Information:

Collection code: **ANTC28600**
Collected by: **A. M. Lea**
Habitat:
Date collected:
Date collected end:
Method:
Microhabitat:
Collection notes:

Specimen Information:

Life stage: **1w**
Located at: **MVMA**
Owned by: **MVMA, Melbourne, Australia**
Determined by:
Date determined:
Type status:  **Holotype of *Promyrmecia rubicunda***
Medium: **pin**
DNA notes:
Specimen notes: **T-20061; ANIC Database No. 32 019896**
Specimen data uploaded by: **California Academy of Sciences**



See something amiss? Send us an email.


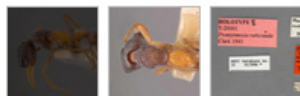
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Antweb is funded from private donations and from grants from the National Science Foundation, DEB-0344731, EF-0431330 and DEB-0842395. c:1



Current View: Global: All Antweb

 Cite this page**Specimen: ANTWEB1008290 *Myrmecia rubicunda***  [Overview](#) | [Images](#)Classification: Order: Hymenoptera Family: Formicidae Subfamily: Myrmeciinae Genus: *Myrmecia* Species: *rubicunda* Specimen: ANTWEB1008290[Profile View](#)

Date Uploaded: 08/11/2014

Photographer: Lucinda Gibson

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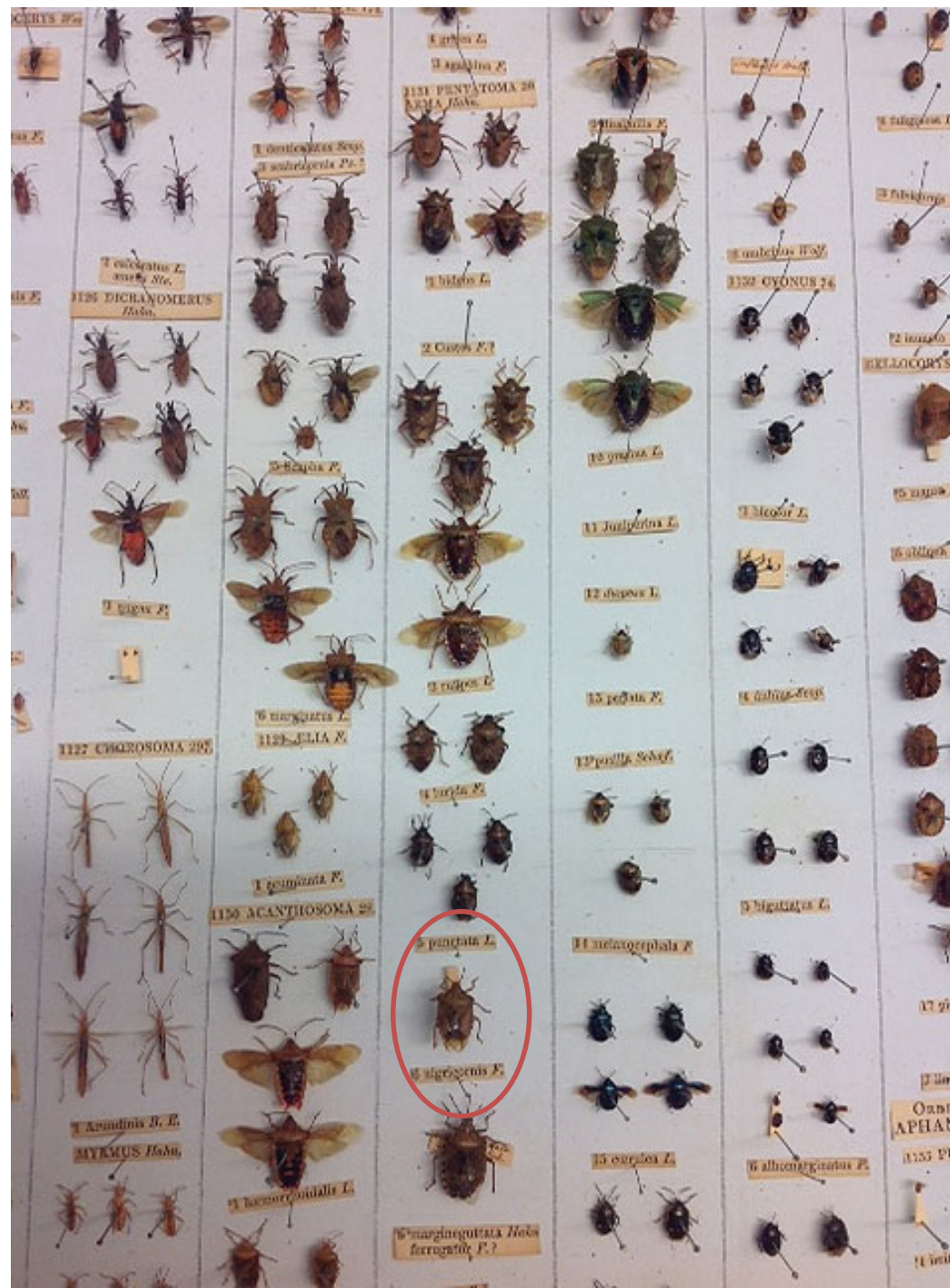
Virtual loans

A request for information on a rare British Bug. Our specimen is over 200 years old

- Dear all,
- I am writing to request information on British examples of *Carpocoris* (Insecta: Hemiptera: Pentatomidae) which may be present in collections.
- **Only about 14 examples have ever been recorded in Britain, mainly prior to 1900.** They have been recorded from Essex (1 record, Harwood collection), Kent (2 records, one of which has already been located from Wye), Cornwall (2 records, cited in JC Dale collection and JE Mason collection) and Devon (up to 9 records, of which only one has been located to date in Brewer collection), the remaining Devon specimen whereabouts are unknown, but were collected by JJ Reading, Parfitt, Captain Blumer (Teignmouth), Saunders and Bignell (2 exx Bigley Woods). In collections can be variously named as *Pentatoma nigricorne*, *Palomena fuscispina*, *Carpocoris fuscispina*, *Carpocoris purpureipennis*, *Carpocoris pudicus* form *fuscispina*. I would be grateful for any assistance in locating any of the above specimens in order to reexamine them to determine which species of *Carpocoris* have been recorded in Britain, as part of ongoing work in producing a new Royal Entomological Society handbook to the group.
- Many thanks

Reply from the Curator

- In 1862, the first director of Museum Victoria, Melbourne Australia, Sir Fredrick McCoy purchased the John Curtis collection for 680 pounds. The collection consisted of some 20,000 specimens in 5 large and small cabinets plus the Curtis hand written diaries which contains taxonomy and location notes for every species in the collection. McCoy also purchased the John Curtis agricultural collection. McCoy had the cabinets sealed in lead lined containers and sailed out to Australia. The British Museum had rejected first offer on the collection due to disagreements they had had with Curtis.
-
- Although purchased over 150 years ago, there is hardly a month goes past without us needing to reference this wonderful collection.
-
- A search for the species named “Pentatoma nigricorne” revealed no specimens but there is one specimen in the Curtis collection named “Pentatoma nigricornis” – which I presume is the same species..
-
- I have attached a series of images associated with this specimen. The drawer image, a close up, the diary entry and a series of montaged images which hopefully show the diagnostic features of this species. With the Curtis collection, we often try to avoid posting away specimens by taking a series high quality montaged images.
-
- I have 16MB high resolution images available for these montage images. If you use DropBox, I can create a folder and share these high res images with you.
-
- Best wishes,
-
- Ken



ata F.

OSOMA 28

5 punctata L.

14

6 nigricornis F.

ata
lab.

alis L.



1 mm



Identification tools

Australian Blowflies: Calliphoridae

Adrianna Thomas, Research
Associate, Museum Victoria





1 mm
Lucilia sericata (Meigen. 1826)



1 mm

Lucilia sericata (Meigen, 1826)

Common Blowflies

LATERAL

DORSAL

HEAD

Male

Female

Male

Female

Male

Female

***Chrysomya
megacephala***

***Lucilia
cuprina***

***Lucilia
porphyrina***

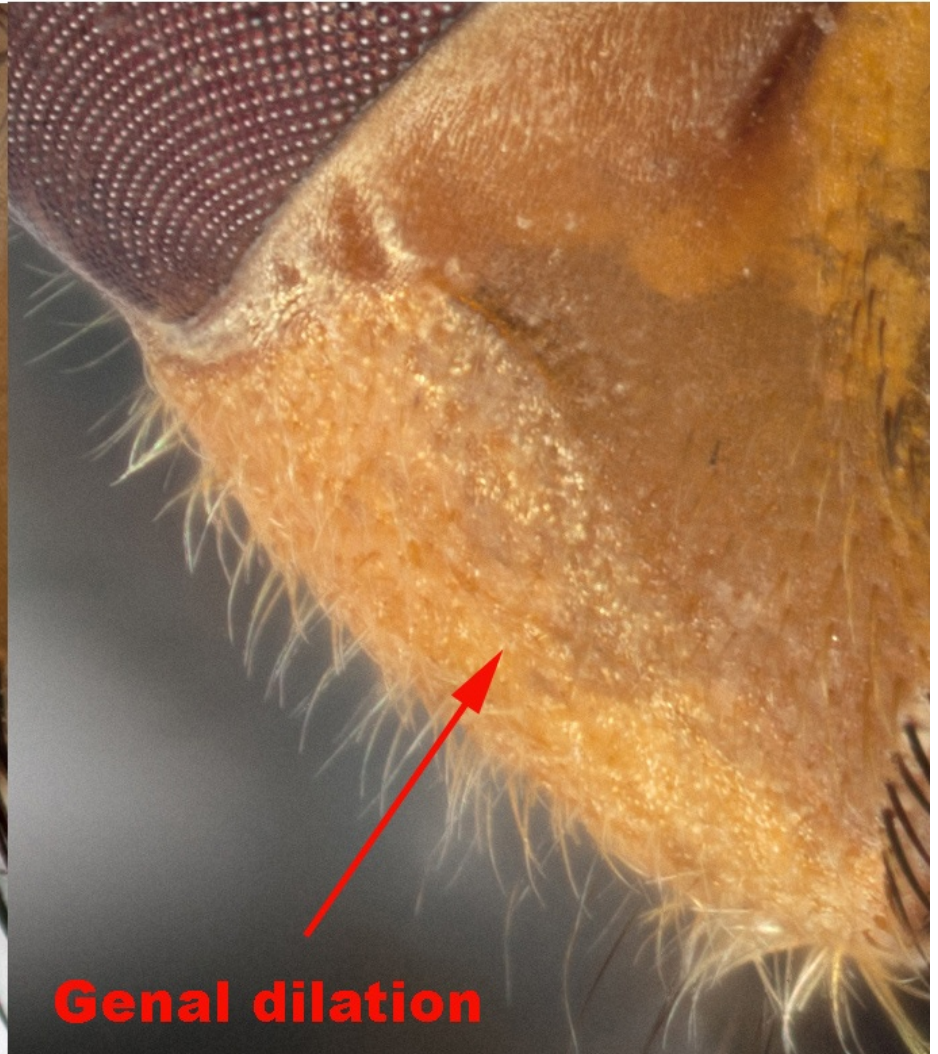
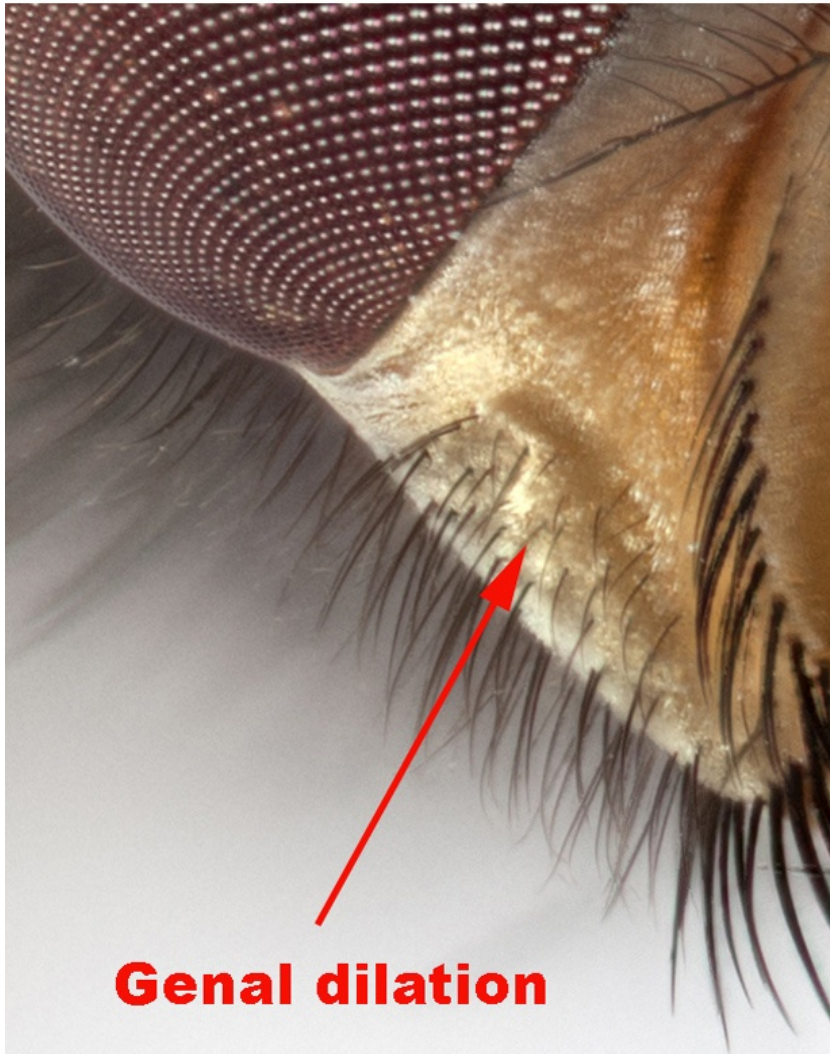
***Lucilia
sericata***



Comparison of setae on genal dilation

Lucilia poryphryna

Chrysomya megacephala



Future Projects that value-add
to the existing and future, high
resolution images.

Future Projects that may value-add
to high resolution imaging.

1. Online investigation of an
entomology collection.

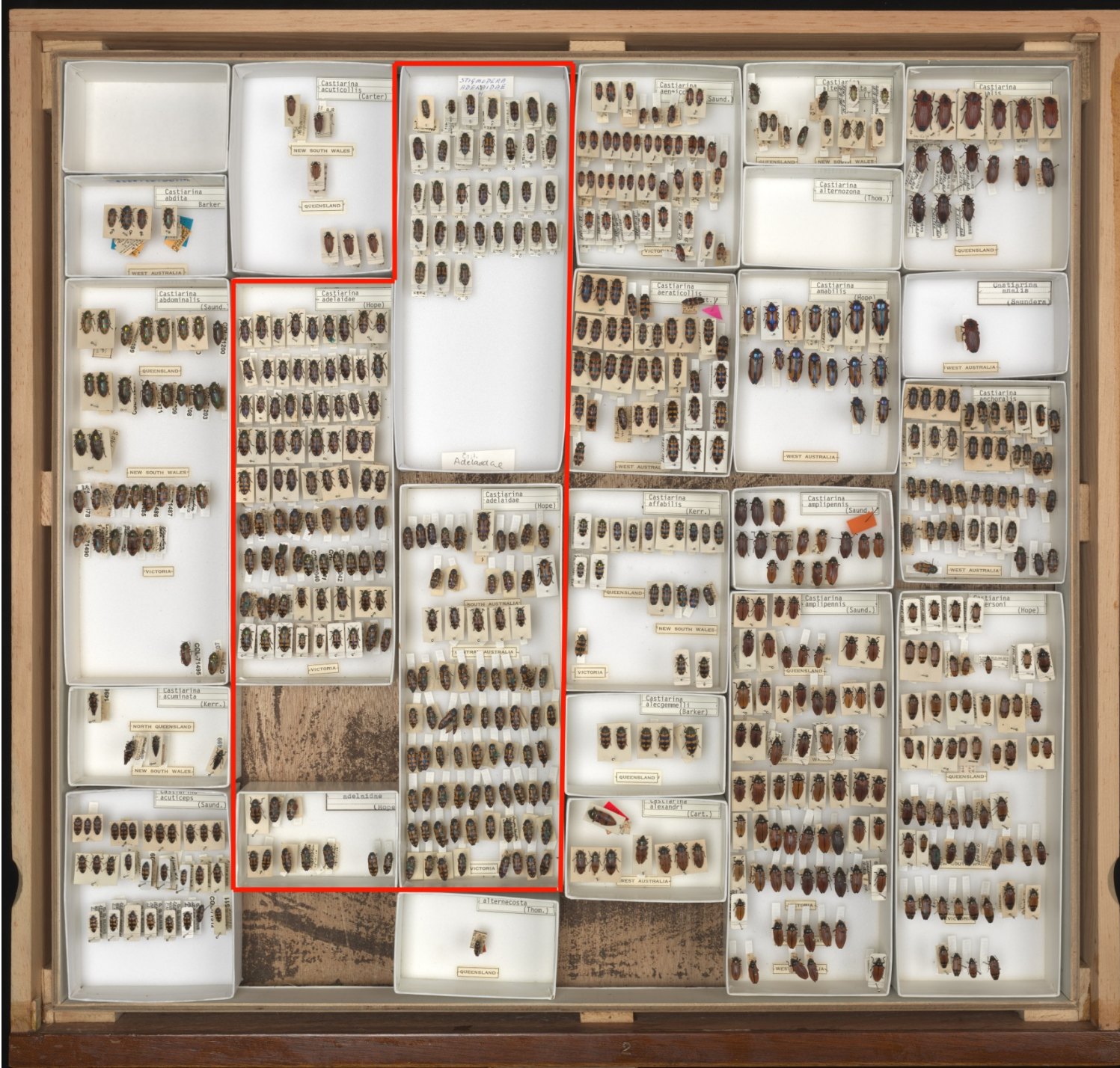
BUPRESTIDAE (Jewel beetles)





BUPRESTIDAE BUPRESTINAE
Stigmoderini - Stigmoderina

Castiarina abd - and



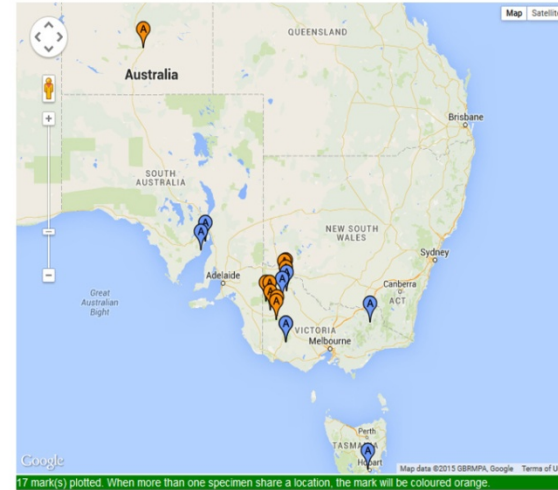




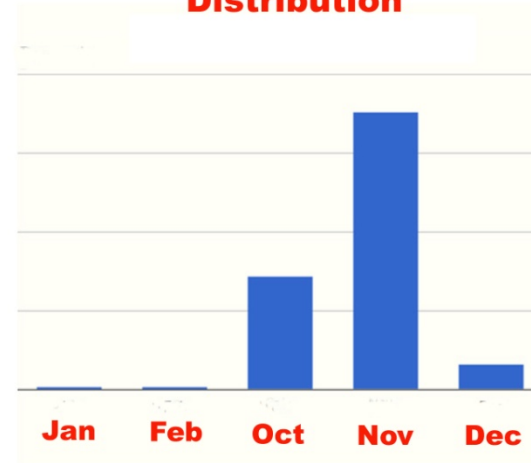
Castiarina adelaidae



Castiarina adelaidae
Registration No. COL-72060



Distribution

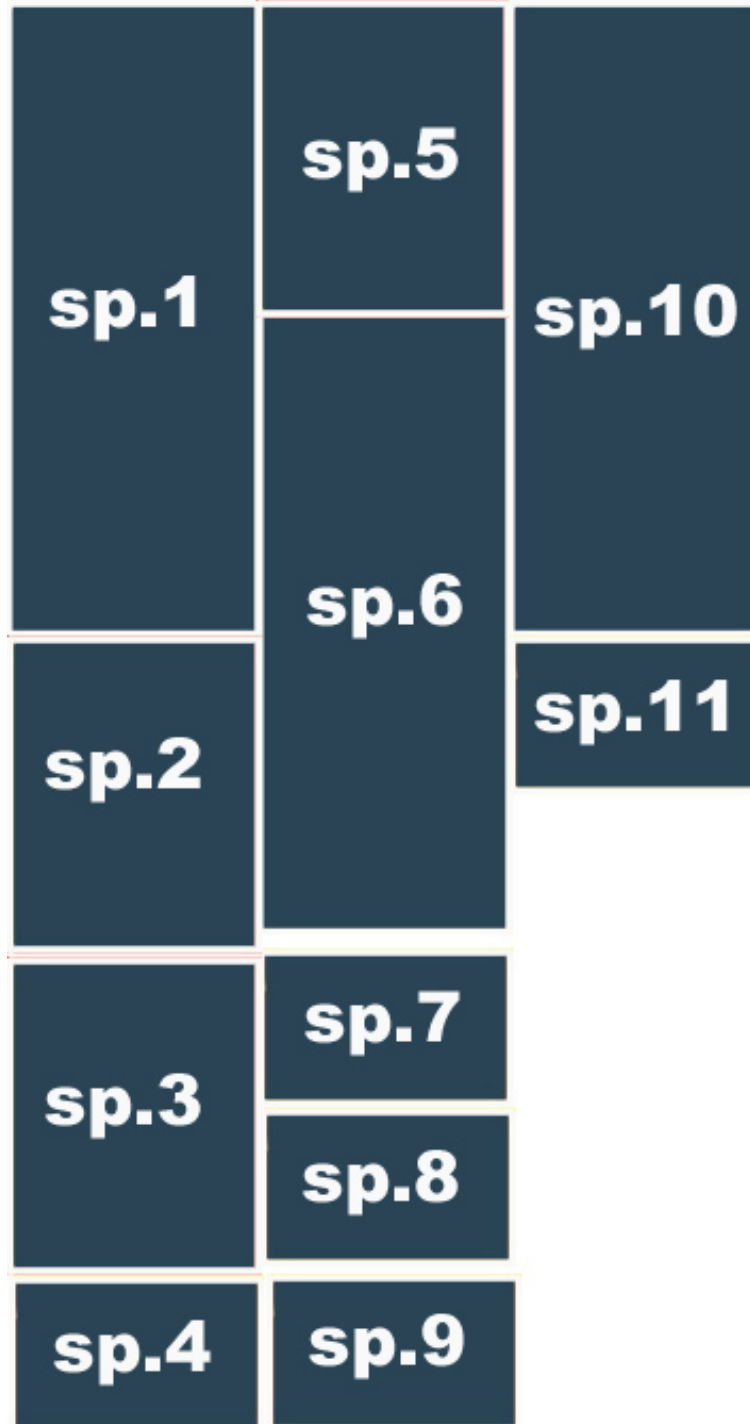


Month collected

Future Projects that may value-add
to high resolution imaging.

1. Online investigation of an
entomology collection.

2. Build your own virtual collection



sp.1	sp.5	sp.10	sp.13	sp.17
	sp.6			
sp.2		sp.11	sp.14	
sp.3	sp.7			sp.12
		sp.8	sp.16	
sp.4	sp.9			

sp.1	sp.5	sp.10	sp.13	sp.17
	sp.6			sp.18
sp.2		sp.11	sp.14	sp.19
sp.3	sp.7			
		sp.8	sp.16	sp.20
sp.4	sp.9			

