

www.ala.org.au

The Atlas of Living Australia

A National Biodiversity Information Facility

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TDWG Conference Symposium

Digitization portals and information interoperability

New Orleans, 17 October 2011, 10.30 a.m.

The Atlas is funded by the Australian Government under the National Collaborative Research Infrastructure Strategy and further supported by the Super Science Initiative of the Education Investment Fund



Atlas of Living Australia



- Australian Government: \$38.2M (2006-2012)
- ALA partner in-kind contributions: \$26.5M
- Mission
 - To develop an authoritative, freely accessible, distributed and federated biodiversity data management system
- Participants:



Tasmanian Museum & Art Gallery



The Council of Heads of Australian Faunal Collections (CHAFC)
The Council of Heads of Australian Entomological Collections (CHAEC)



The Council of Heads of Australasian Collections of Microorganisms (CHACM)
The Council of Australasian Museum Directors (CAMD)

An Australian Government Initiative
National Collaborative Research Infrastructure Strategy

Data licensing – Creative Commons

Data Provider Agreement

BACKGROUND

The Atlas of Living Australia (ALA) is a biodiversity information management system with 4 goals to integrate information on all Australian species. It provides the infrastructure and tools to allow data contributors to share their data and the derivative information generated through its analysis, processing and integration. To achieve these goals, the ALA provides the free and open exchange of biodiversity data to support science, policy making and public understanding. The ALA respects the IP rights of data providers. ALA encourages all data providers to license their data for unrestricted use where ever possible.



THE LICENSE

- The Data Provider grants to ALA a non-exclusive, worldwide and free license to the Data to:
 - Use and Disseminate the Data and Derivatives for and via the ALA Portal including the facilitation of data management and data analysis via the ALA Portal;
 - Make available the Data and Derivatives in accordance with the ALA Terms and the selected Data Provider Terms (where one):
 - Creative Commons – Attribution 3.0 Australia (You or others may distribute, publicly and perform your assignment work in and derivative works based upon it in full and only if they give credit the way you request)
 - Creative Commons – Attribution Non-Commercial 3.0 Australia (You or others may distribute, publicly, and perform your work in and derivative works based upon it in full for non-commercial purposes only).
 - Creative Commons – Attribution Share Alike 3.0 Australia (You allow others to distribute derivative works only under a license identical to the license that governs your work (includes distribution)
 - Special license agreement – used other combinations of Creative Commons licenses in special license agreements (preferably consistent with the goals of the tool and allow derivative works) – details to be provided in the Schedule.
- The Data Provider agrees that ALA may share the Data and Derivatives with other organisations running similar biodiversity information initiatives both nationally (e.g. AIMS, CSIRO, TERN) and internationally (e.g. IGC, GBIF) so they may use and Disseminate the Data and Derivatives subject to those bodies agreeing to the Data Provider Terms and under obligations as those of ALA under this agreement.
- All information in the Public Domain will remain in the Public Domain, neither the ALA nor Data Providers will seek to assert any IP rights over any Public Domain material that are made available through the ALA Portal.

DATA PROVIDER RIGHTS AND UNDERTAKINGS

- The Data Provider is free to make available, use or publish the Data elsewhere.
- The Data Provider warrants that it is the owner of the Data or that it has the necessary rights, licences or permissions to make the Data available in accordance with this Agreement.
- The Data Provider will make reasonable efforts to ensure that the Data is accurate at the time of its collection or creation, and will provide updated versions of the Data whenever relevant and possible. The Data Provider will not be liable for any omissions or inaccuracies in the Data.
- The Data Provider will provide a Contract to enter with ALA and queries with respect to the Data.
- Where the Data Provider requires a specific attribution for the Data it will include that attribution in the Schedule.

Version 27.6.07 - This work is licensed under a Creative Commons Attribution 3.0 Australia License

Share Datasets

Home | About | User Support

Share your Datasets with the Atlas

Share License:

Share Public:

Share Info, User, Attribution:

Share Tabular:

More sharing:

Your Email:

Your Name:

Phone:

Organisation/Institution:

Your Dataset Details

Type:

Notes on your data:

Dataset Type:

Date Upload Format:

Templates:

Structured Profile Information:

Image Metadata:

Need a different template? please contact us at ala_data@environmentaldata.org.au

Terms for sharing your content

1. Choose the license:

2. Attribution:

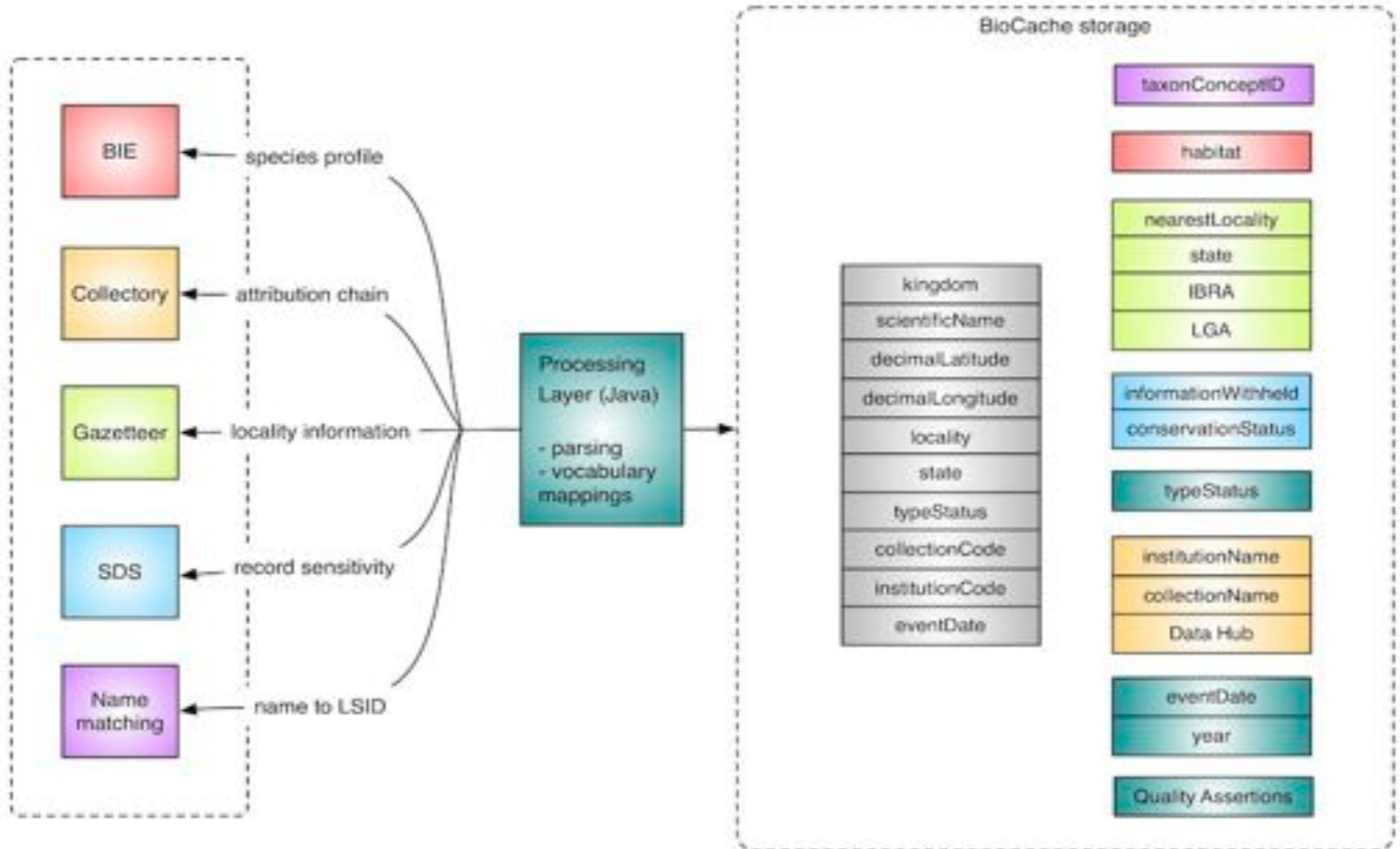
3. Accept Atlas Terms of Use:

2 P 1 1

Notes: required fields are marked with red asterisks and may be prepopulated. on successfully submitting your dataset a message is displayed at the foot of the page. Thank you!

- Herbarium data
 - HISPID standard (a profile based on ABCD Schema)
 - BioCASE wrappers
- Museum data (some museums)
 - Darwin Core
 - TAPIR
- Any occurrence data (PREFERRED OPTION)
 - Darwin Core (plus domain-specific elements)
 - CSV spreadsheets or Darwin Core Archive
 - Includes exports from GBIF, BOLD, etc.
- Miscellaneous
 - EOL Flickr group

Record harvesting



Data quality

Data validation issues

- Uncertainty was not supplied, using default value 1000
- Recognised habitats for species: Non-marine, Value determined from coordinates: Marine

Flag an issue

Original vs Processed

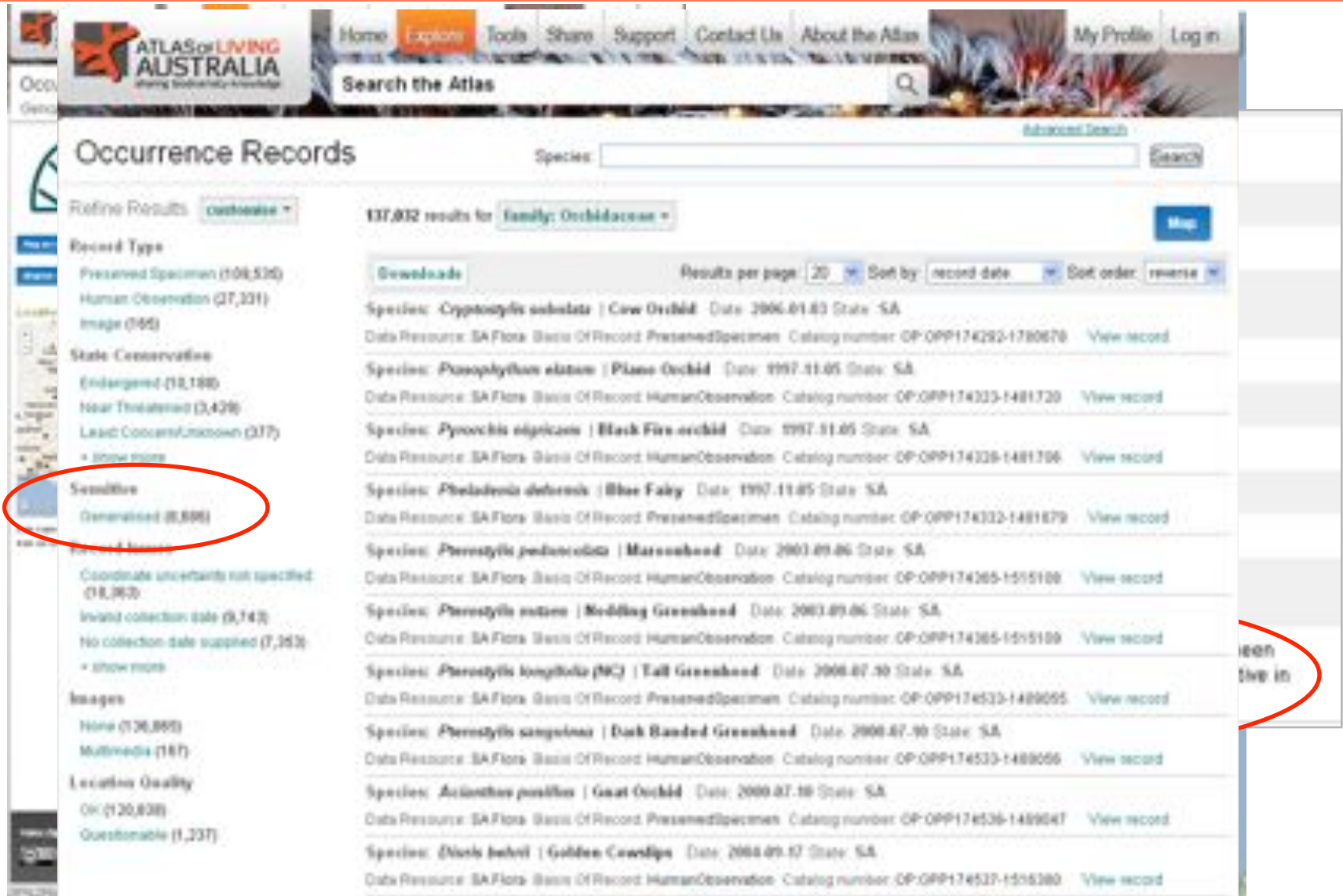
Location of record



Code	Name	Creator	
Geospatial			
1	NEGATED_LATITUDE	GBIF	Record appears to be in the wrong hemisphere
2	NEGATED_LONGITUDE	GBIF	Record appears to be in the wrong hemisphere
3	INVERTED_COORDINATES	GBIF	Latitude and longitude are swapped (typically bad data)
4	ZERO_COORDINATES	GBIF	Coordinates given as 0 values for empty data
5	COORDINATES_OUT_OF_RANGE	GBIF	Latitude >90 or <-90
6	UNKNOWN_COUNTRY_NAME	GBIF	Unrecognised or unspelled country name
7	ALTITUDE_OUT_OF_RANGE	GBIF	Altitude greater than 10000
8	BADLY_FORMED_ALTITUDE	GBIF	Free text string provided
9	MIN_MAX_ALTITUDE_REVERSED	GBIF	Typically a column header error
10	DEPTH_IN_FEET	GBIF	Darwin core specific
11	DEPTH_OUT_OF_RANGE	GBIF	Depth greater than 10000
12	MIN_MAX_DEPTH_REVERSED	GBIF	Typically a column header error
13	ALTITUDE_IN_FEET	GBIF	Darwin core specific
14	ALTITUDE_NON_NUMERIC	GBIF	Should be a numeric value
15	DEPTH_NON_NUMERIC	GBIF	Should be a numeric value
16	COUNTRY_COORDINATE_MISMATCH	GBIF	Coordinates outside of country
17	STATEPROVINCE_COORDINATE_MISMATCH	DM	Coordinates don't match state/province
18	COORDINATE_HABITAT_MISMATCH	DM	Marine species reported in a non-marine habitat (also dependent on how recording, e.g., estuaries could be an identifiable geospatial error (DM))

Issue	Severity	DwC Class	DwC Fields
	Warning	Location	decimalLatitude
	Warning	Location	decimalLongitude
	Warning	Location	decimalLatitude, decimalLongitude
no other errors reported	Error	Location	decimalLatitude, decimalLongitude
no other errors reported	Error	Location	decimalLatitude, decimalLongitude
	Warning	Location	country
	Warning	Location	verbatimElevation
	Warning	Location	verbatimElevation
	Warning	Location	verbatimDepth
	Warning	Location	verbatimDepth
	Warning	Location	verbatimDepth
	Warning	Location	verbatimElevation
	Warning	Location	verbatimElevation
	Warning	Location	verbatimDepth
	Warning	Location	country, decimalLatitude, decimalLongitude
	Warning	Location	stateProvince, decimalLatitude, decimalLongitude
no other errors reported	Error	Location	decimalLatitude, decimalLongitude, terrestrial spatial layer

Sensitive data



The screenshot shows the 'Occurrence Records' page on the Atlas of Living Australia website. The page displays search results for the family 'Orchidaceae', with 137,932 results. The left sidebar contains various filters, including 'Record Type', 'State Conservation', 'Images', and 'Location Quality'. The 'Sensitive' filter is circled in red, showing 8,896 records. The main content area lists individual records with details such as species names, dates, and states. A red circle on the right side of the page highlights the text 'seen live in'.

Home Explore Tools Share Support Contact Us About the Atlas My Profile Log in

Search the Atlas

Occurrence Records

Species: [Advanced Search](#)

137,932 results for **family: Orchidaceae** [Map](#)

[Downloads](#) Results per page: 20 Sort by: record date Sort order: reverse

Species: *Cryptostylis subulata* | Cow Orchid Date: 2006-01-03 State: SA
Data Resource: SA Flora - Basis Of Record: Preserved Specimen Catalog number: OP-OPP174292-1780670 [View record](#)

Species: *Pterostylis elatum* | Plains Orchid Date: 1997-11-05 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174333-1481720 [View record](#)

Species: *Pterostylis nigricans* | Black Fire orchid Date: 1997-11-05 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174338-1481706 [View record](#)

Species: *Pteradenia deflexa* | Blue Fairy Date: 1997-11-05 State: SA
Data Resource: SA Flora - Basis Of Record: Preserved Specimen Catalog number: OP-OPP174332-1481679 [View record](#)

Species: *Pterostylis pedunculata* | Maroonhood Date: 2003-09-06 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174365-1555100 [View record](#)

Species: *Pterostylis extima* | Nodding Greenhood Date: 2003-09-06 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174365-1555109 [View record](#)

Species: *Pterostylis longifolia* (N.C.) | Tall Greenhood Date: 2008-07-30 State: SA
Data Resource: SA Flora - Basis Of Record: Preserved Specimen Catalog number: OP-OPP174533-1489055 [View record](#)

Species: *Pterostylis sanguinea* | Dark Banded Greenhood Date: 2008-07-30 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174533-1489056 [View record](#)

Species: *Acianthes pusillus* | Goat Orchid Date: 2008-07-30 State: SA
Data Resource: SA Flora - Basis Of Record: Preserved Specimen Catalog number: OP-OPP174536-1489047 [View record](#)

Species: *Dunkia behrii* | Golden Cowslip Date: 2008-09-17 State: SA
Data Resource: SA Flora - Basis Of Record: Human Observation Catalog number: OP-OPP174537-1555380 [View record](#)

Refine Results [Customize](#)

Record Type

- Preserved Specimen (108,530)
- Human Observation (27,331)
- Image (165)

State Conservation

- Endangered (18,186)
- Near Threatened (3,429)
- Least Concern/Unknown (37)
- [Show more](#)

Sensitive (8,896)

Coordinate uncertainty not specified (18,363)

Invalid collection date (9,143)

No collection date supplied (7,352)

[show more](#)

Images

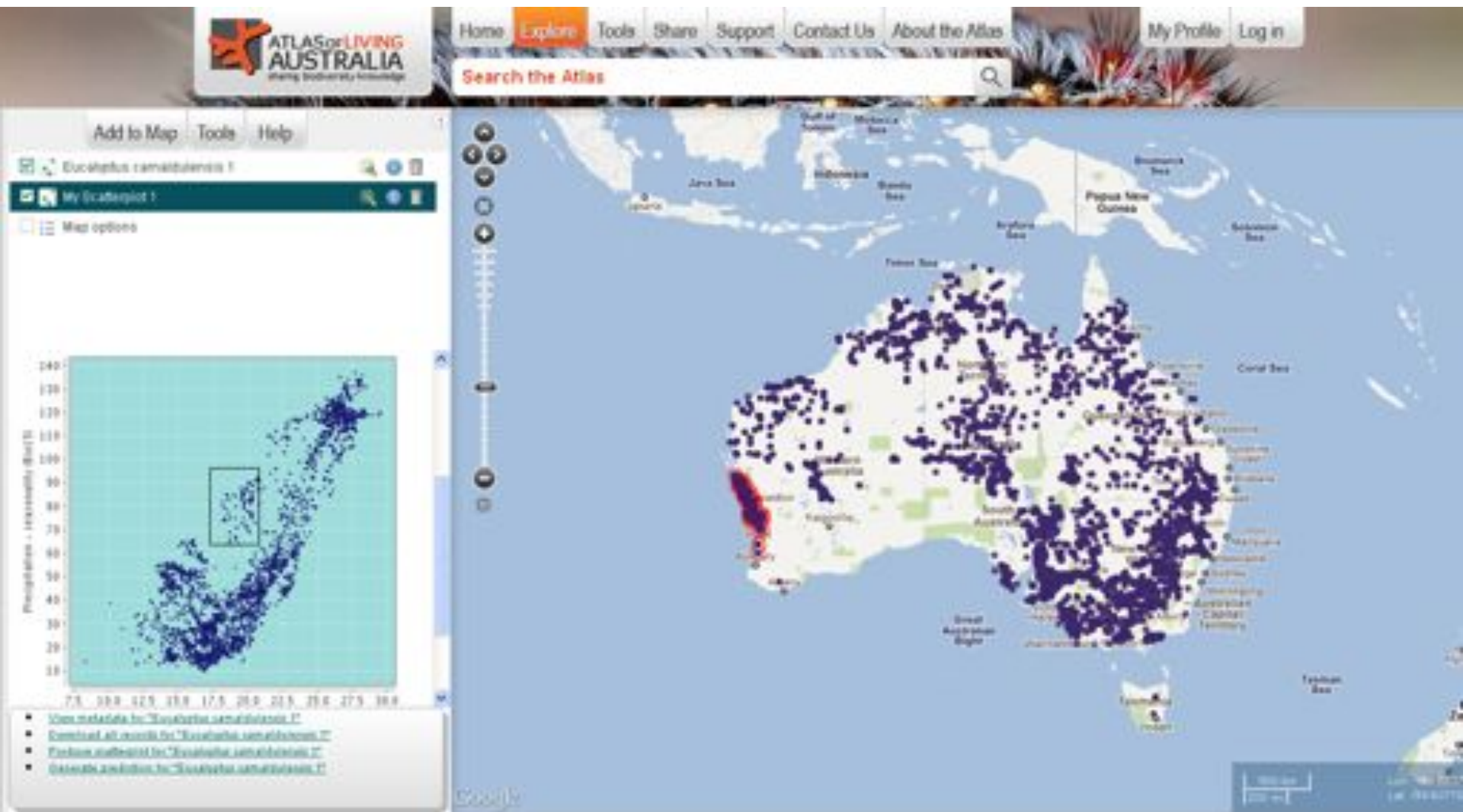
- None (126,893)
- Multimedia (167)

Location Quality

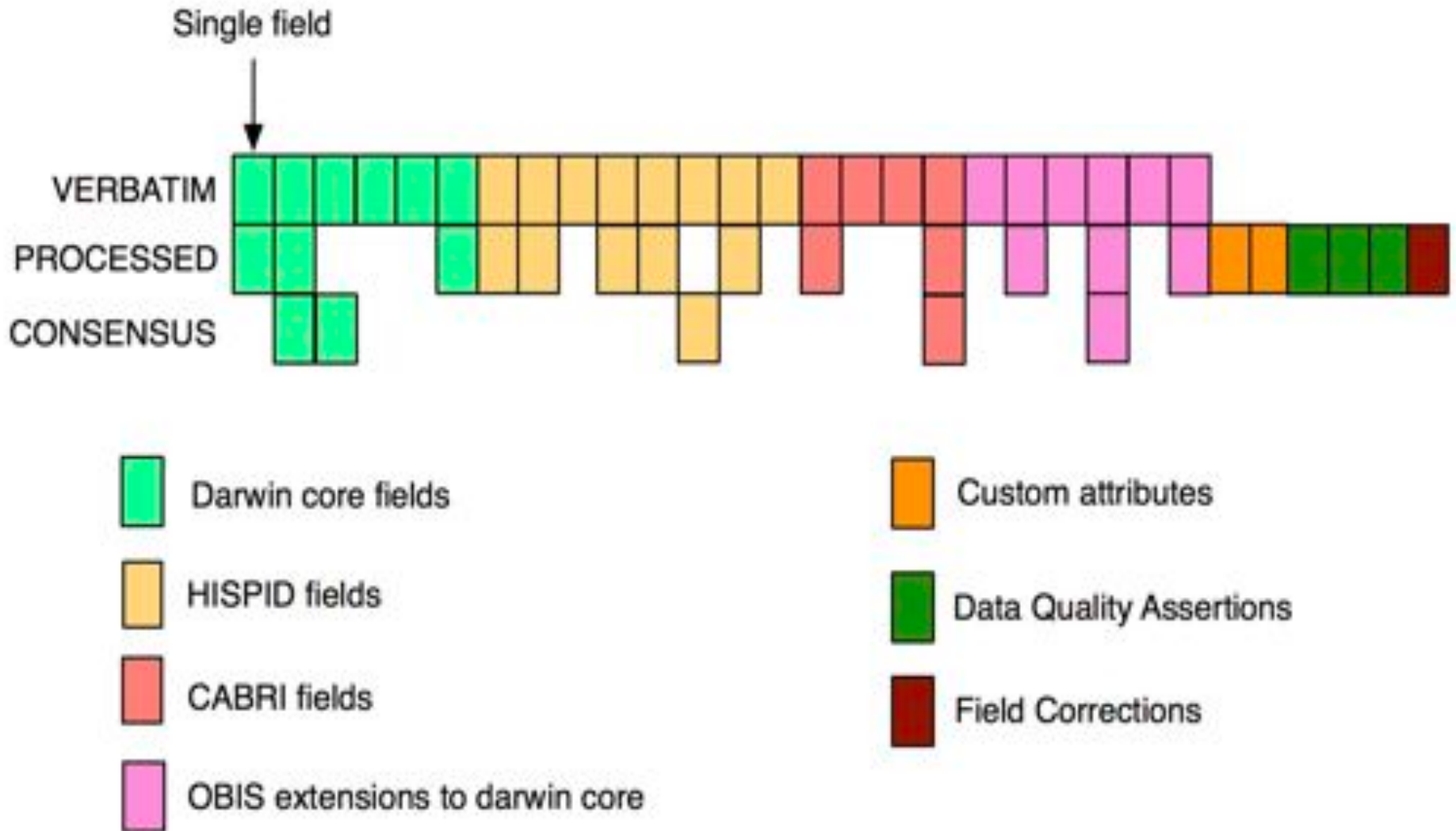
- OK (126,838)
- Questionable (1,237)

seen live in

Environmental data



Cassandra data index



Verbatim vs. processed

Event	year	2002
	event id	ecollectionevents.in.1088391
	event date	2002-3-5
	day	05
	month	03
	verbatim event date	ecatalogue.CatDateCatalogued: 2005-10-20,
Location	verbatim locality	BELLBOWRIE, TOORMINA
	verbatim longitude	153° 5' 6" E
	lga	Coffs Harbour - Pt A
	country	Australia
	coordinate uncertainty in meters	1000
	state province	New South Wales
	habitat	Terrestrial
	location remarks	ecatalogue.LocCollectionEventLocal: "Australia, New South Wales, BELLBOWRIE, TOORMINA (30° 20' 53" S, 153° 05' 06" E) 05/03/2002 - 05/03/2002, Presented";
	verbatim latitude	30° 20' 53" S
	ibra	NSW North Coast
	decimal longitude	153.085000
	decimal latitude	-30.348056
	Identification	date identified

Data presentation



Home | Explore | Natural History Collections | Australian Museum

Australian Museum

Acronyms: AM [LSID](#)



Description

The Australian Museum is making a range of species information and data from its natural history collections available through the Atlas of Living Australia.

The Australian Museum has worked with Rio Tinto (<http://australianmuseum.net.au/our-corporate-partners/>) to develop BioMaps (<http://www.biomaps.net.au/biomaps2/>), a set of tools for accessing, mapping and analysing Australian biodiversity data. The ALA is exploring ways to collaborate with the Australian Museum and with Rio Tinto to further this work within the framework of the Atlas.

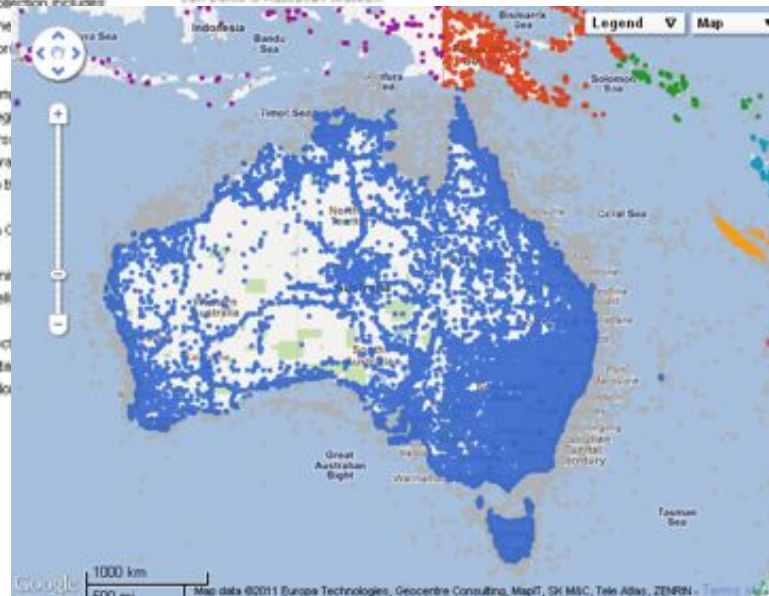


Stag Beetle, *Lagria* spp. Photo: Carl Beets © Australian Museum 2007

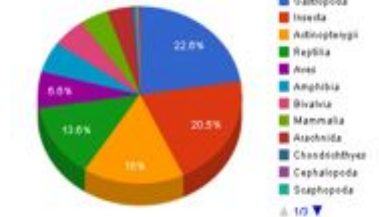
Carl Beets © Australian Museum

Collections

- Australian Museum Arachnology Collection** The Australian Museum Arachnology collection includes arachnids (spiders and their relatives), myriapods (centipedes and millipedes and the onychophorans (velvet worms), and landgrades (water bears). The Arachnida represent a proportion of the collections, at about 95%.
- Australian Museum Entomology Collection** In the insect (s.l.) collection, there is an emphasis on South Wales fauna, although there are significant holdings from other states and regions. It has internationally significant holdings of acalyptate Diptera, Psocoptera, and Chrysomelids. Major Australian collections of Neuroptera, Megaloptera, Lepidoptera, and Coleoptera are also held.
- Australian Museum Herpetology Collection** Two thirds of collection are reptiles, two thirds are lizards. Contains collections of most recently extinct eastern Australian frogs.
- Australian Museum Ichthyology Collection** As one would expect, the Fish Research Centre holds many adult and larval fish specimens. These are used by researchers worldwide.
- Australian Museum Malacology Collection** Malacology is the study of the group of animals called molluscs. Molluscs include chitons, clams, mussels, snails, nudibranchs (sea slugs), bivalve shellfish, and squid.
- Australian Museum Mammalogy Collection** The Australian Museum Mammalogy collection is the most comprehensive collections of Australasian mammals in the world. While it contains specimens from all over the world the largest collections are from Australia, Papua New Guinea, Indonesia, and the Solomon Islands.



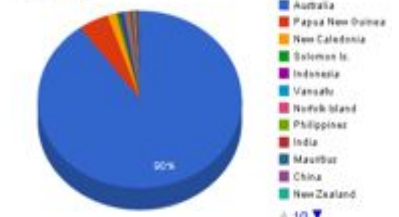
By class



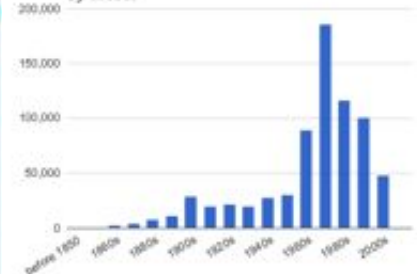
Click a slice to drill into the next taxonomic level.

[View all records](#)

By country



By decade



Faceted search

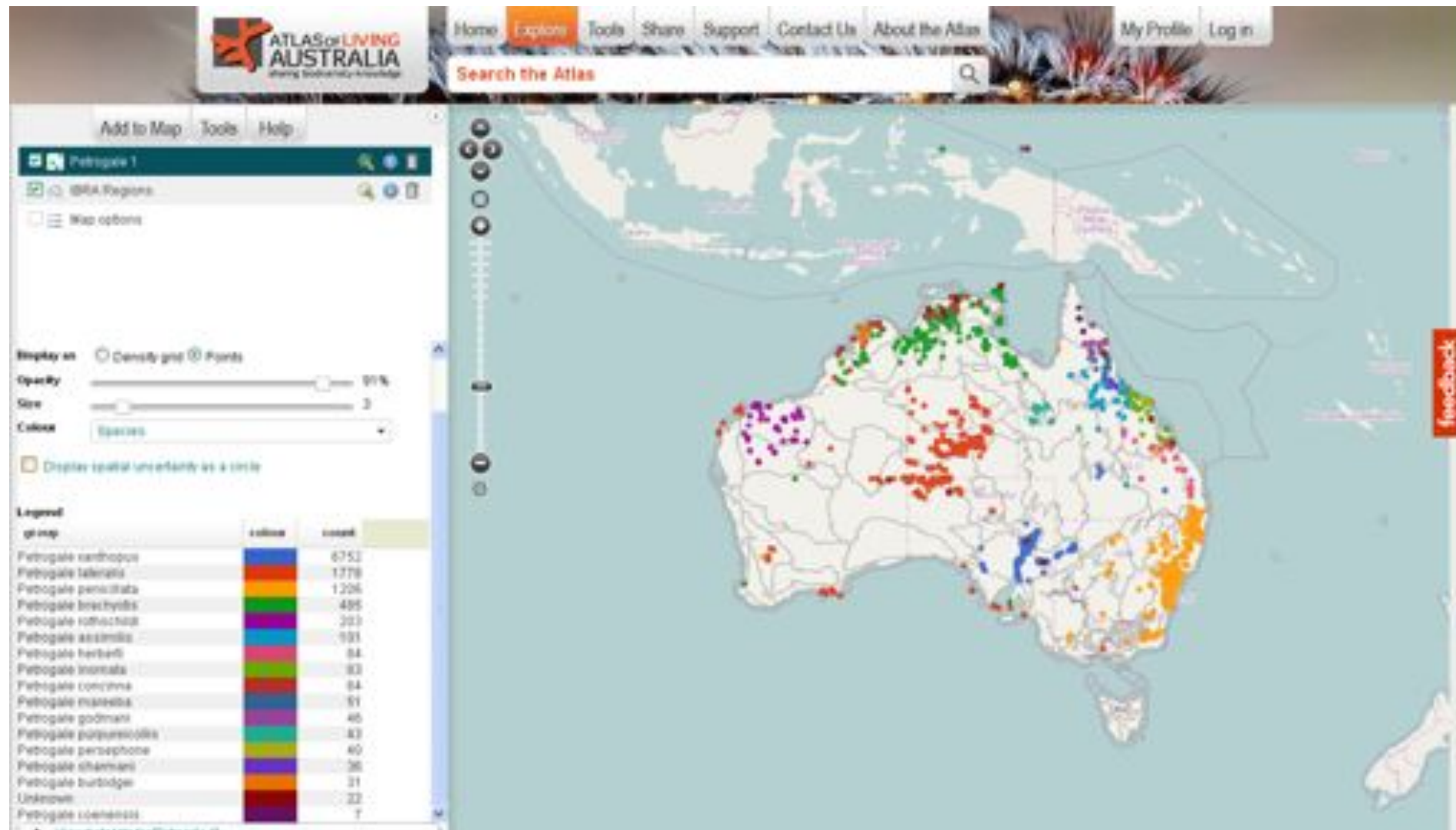


The screenshot shows the 'Occurrence Records' page for the species *Petrogale*. The search bar contains 'petrogale' and shows 11,270 results. The page is faceted with several filters on the left:

- Record Type:** Human Observation (2,268), Preserved Specimen (7,662), Image (0).
- Specimen Type:** notype (737), paratypes (716), holotype (6), + show more.
- Institution:** Commonwealth Scientific and Industrial Research Organisation (722), Western Australian Museum (520), South Australian Museum (326), + show more.
- Collection:** Australian National Wildlife Collection (722), Western Australian Museum Mammal Collection (520), South Australian Museum Mammalogy Collection (326), + show more.
- Dataset:** DA Fauna (5,842), OBN Atlas of NDN Wildlife (1,326), Fauna Atlas NT (1,112).

The main map displays the distribution of records across Australia, color-coded by record type: blue for Human Observation and red for Preserved Specimen. A legend on the right allows toggling the display of these record types. The map also includes a scale bar and navigation controls.

Spatial portal



Regional summaries

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Search the Atlas

Logged in as donald.haberm@cs.cmu.edu

Home > Explore > Your Area

Explore Your Area

Enter your location or address

E.g. a street address, place name, postcode or GPS coordinates (as lat, long)

Queensland museum, brisbane

Search

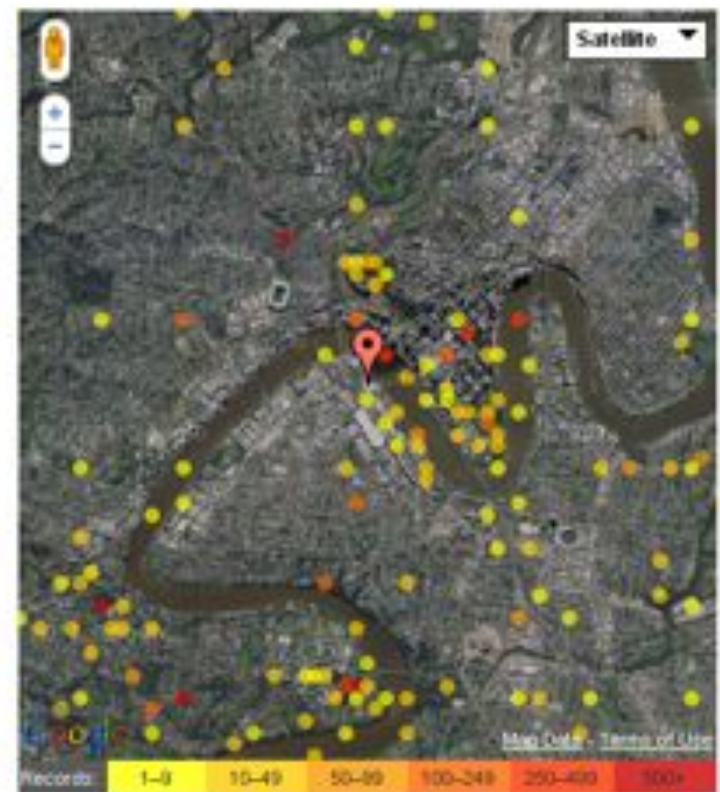
Showing records for: 74 Stanley St, South Brisbane QLD 4101, Australia

Display records in a 5 km radius

[View all occurrence records](#)

Download

Group	Count	Species	Records
All Species	2947	28. <i>Acacia podalyrifolia</i> (Mount Morgan Wattle)	2
Animals	1551	29. <i>Acacia spectabilis</i> (Glory Wattle)	1
Mammals	12	30. <i>Acacia suaveolens</i> (Sweet Wattle)	2
Birds	219	31. <i>Acacia ulicifolia</i> (Prickly Moses)	2
Reptiles	40	32. <i>Acalypha australis</i>	1
Amphibians	28	33. <i>Acalypha nemorum</i>	8
Fish	42	34. <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)	2
Insects	1110	35. <i>Acanthiza pusilla</i> (Brown Thornbill)	1
Plants	1139	36. <i>Acanthiza reguloides</i> (Buff-rumped Thornbill)	1
Fungi	82	37. <i>Acanthopagrus australis</i> (Yellowfin Bream)	1
Chromista	0	38. <i>Acanthopis antarcticus</i> (Common Death Adder)	6
Protozoa	1	39. <i>Acanthopylla pavida</i>	1
Bacteria	0	40. <i>Acanthorhynchus tenuirostris</i> (Eastern Spinebill)	1



Data reuse via DwC Archive



Free and open access to biodiversity data
GLOBAL BIODIVERSITY INFORMATION FACILITY

Search

SEARCH SPECIES COUNTRY DATASET

HOME SPECIES COUNTRIES DATASETS OCCURRENCES SETTINGS ABOUT

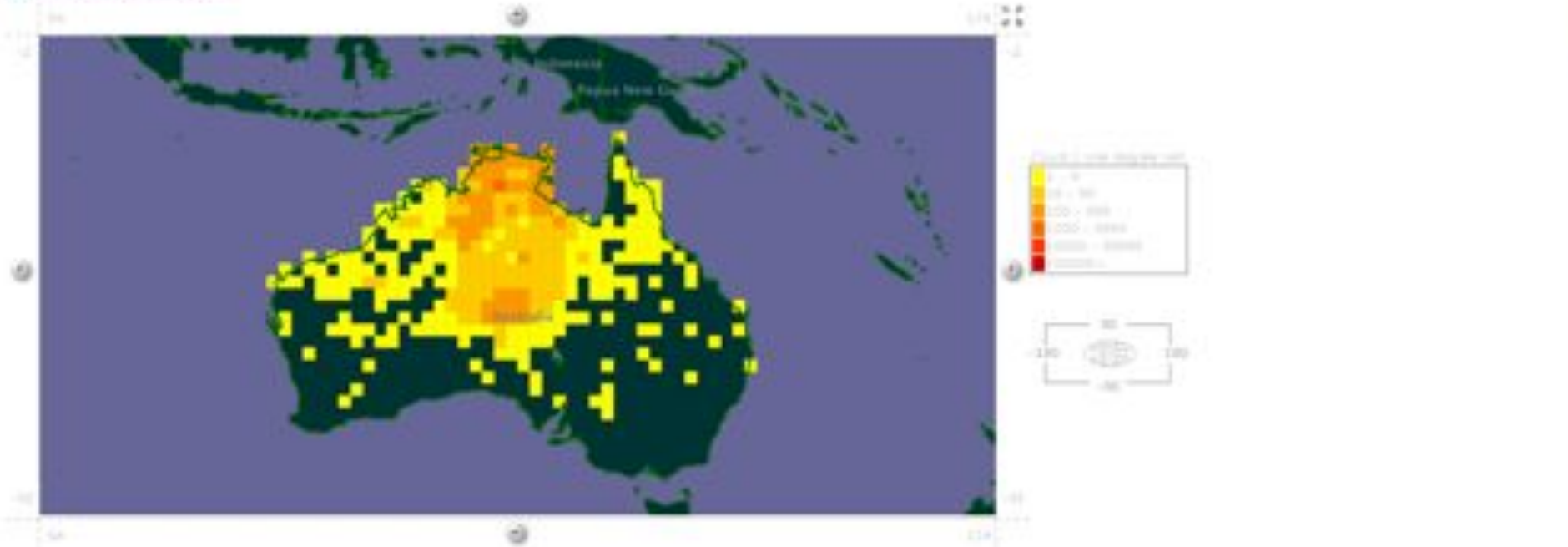
Data Publisher: Department of Natural Resources, Environment, The Arts and Sport, Northern Territory of Australia

Actions for Department of Natural Resources, Environment, The Arts and Sport, Northern Territory of Australia

Explore: Occurrences

Download: Darwin Core records One-degree cell density overlay for Google Earth Placemarks for Google Earth (limit 10,000)

Occurrence overview



Data reuse via web services



Occurrence Record: Entomology:HET23361

Zygonetia plana | Golden Sun Moth



Data validation errors
 - This record was not updated, may be out of date

Map in total
 Original in Preview

Location of record



View on map
 Download map

Dataset

Authorities	Brown, Victoria Applied to "MOT"
Collection	Brown, Victoria Entomology Collection Applied to "Entomology"
Catalogue number	WET1911
Department	Department of Environment and Heritage Applied to "Department of Environment and Heritage"
Field of Interest	Entomology Applied to "Species"
Record Date	2008-12-12 Applied to "Year: 2008, Month: 12, Day: 12"
Identifier	ENTMOT_HET23361

Taxonomy

Higher Classification	Insecta: Lepidoptera: Ctenoidea
Scientific Name	<i>Zygonetia plana</i>
Author Rank	Species
Common Name	Golden Sun Moth
Abundance	Abundant Applied to "Abundant"
Order	Arthropoda
Class	Insecta
Order	Lepidoptera
Family	Tortricidae
Genus	<i>Zygonetia</i>
Species	<i>Zygonetia plana</i>

Geospatial

Higher Geography	Australia: Victoria
Country	Australia



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Occurrence Records

Species: *Zygonetia plana*

Advanced Search

Search

Filter Results

(entomology)

Record Type

Preserved Specimen (7)

Institution

Department of Environment and Resource Management (6)
 Royal Botanic Gardens Melbourne (1)

Collection

Queensland Herbarium (6)
 National Herbarium of Victoria (1)

Dataset

Australia's Virtual Herbarium (7)

Country

Australia (7)

State/Territory

New South Wales (7)

Biogeographic Region

Southern Ocean (6)
 NSW North Coast (1)

Modified to Rank

Species (7)

Species Group

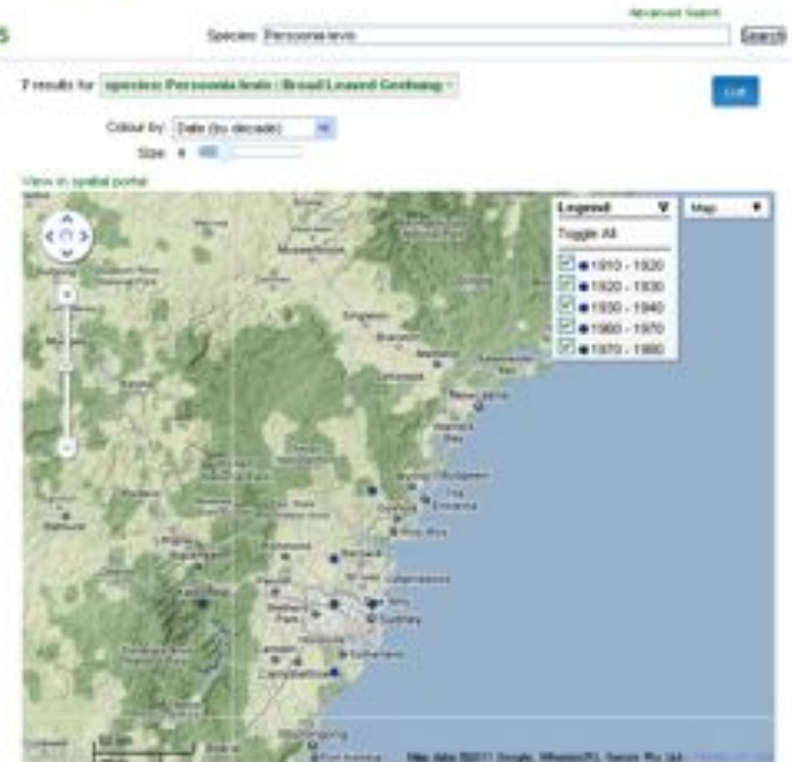
Planis (7)

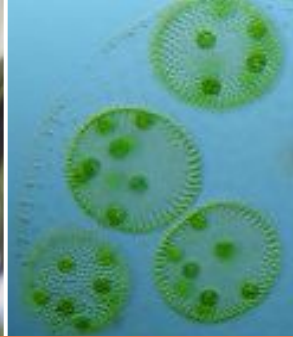
Biophore

Herbaris (7)

Family

Tortricidae (7)





The Atlas of Living Australia Participants

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The Council of Heads of Australian Entomological Collections (CHAEC)

The Council of Heads of Australasian Collections of Microorganisms (CHACM)
The Council of Australasian Museum Directors (CAMD)



An Australian Government Initiative
National Collaborative Research Infrastructure Strategy



The Atlas is funded by the Australian Government under the National Collaborative Research Infrastructure Strategy and further supported by the Super Science Initiative of the Education Investment Fund