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The Atlas of Living Australia

A National Biodiversity Information Facility

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GBIF Science Symposium

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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)



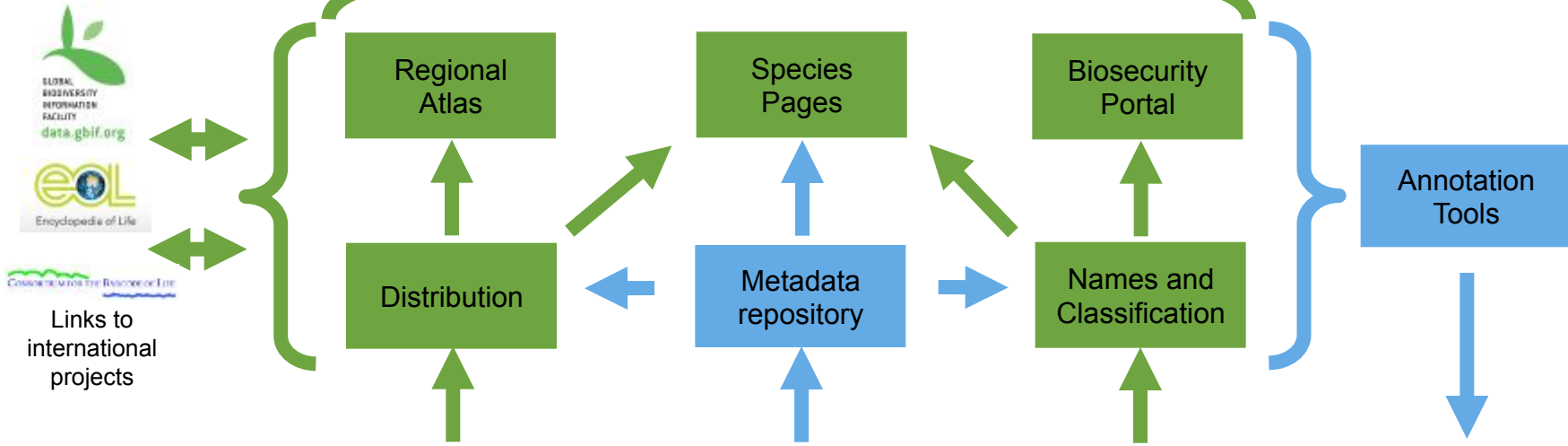
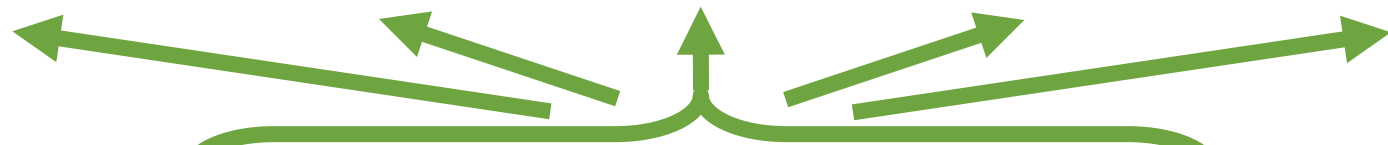
The Council of Heads of Australasian Collections of Microorganisms (CHACM)
The Council of Australasian Museum Directors (CAMD)

An Australian Government Initiative
National Collaborative Research Infrastructure Strategy

Conceptual model



Uses (biosecurity, land-use, climate change, crop development, resource management, materials, forensics, taxonomy, etc.)



Metadata (source, methods, ownership, access, etc.)

Data (collections, field observations, literature, molecular, images, expert knowledge, etc.)



Building on the work of others



User needs analysis

- Key user tasks
 - Species distribution analysis
 - Species identification
 - Site assessment
 - Habitat management planning
 - Managing reference databases
 - Public education
 - Synecology / food-web analysis
 - Biosecurity
- Major interests
 - Resolving scientific names
 - Integrating amateur observations
 - Issues around sensitive data

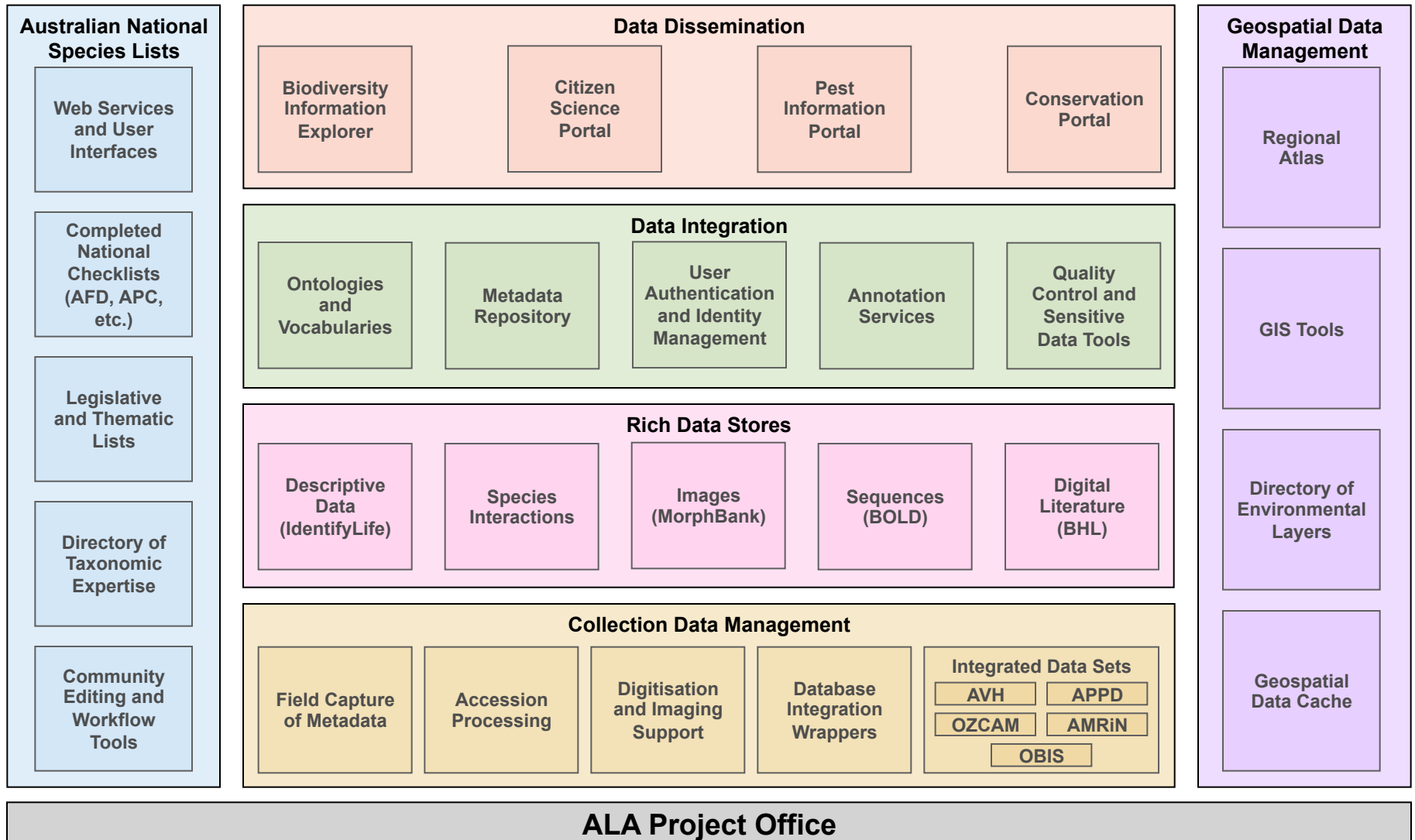


Participant roadmaps

- Review participant situation and priorities
 - Variation and common features
 - Existing data sets
 - Problems around digitisation
 - Research interests
- Plan involvement in ALA
 - Data integration
 - Digitisation activity
 - Special projects
 - Branding
 - Data licensing
 - Outreach and education


































Delivery plan



National species lists

Nymphoides Seg. [CHAH 2006]

URI <http://biodiversity.org.au/apni/taxon/309365>
LSID <urn:lsid:biodiversity.org.au:apni:taxon:309365>
Modified 2009-10-15
Name [Nymphoides Seg.](#) 
Taxonomic tree [according to apc](#) 
Rank Genus (gen)
According to CHAH (2006)
Publication CHAH, (2006) Australian Plant Census.

- includes (taxonomic) [Linnæsthemum S. G. Gmel.](#) 
- includes (taxonomic) [Vilarsia sect. Linnæsthemum \(S. G. Gmel.\) F. Muell.](#) 
- is child taxon of (classification) [Metyanthaceae Dumort.](#) [CHAH 2008]  
- is parent taxon of (classification) [Nymphoides aurantiaca \(Dalzell\) Kuntze](#) [CHAH 2006] 
- is parent taxon of (classification) [Nymphoides aurantiaca \(Dalzell\) Kuntze sensu Aston, H.I. \(2009\)](#)  
- is parent taxon of (classification) [Nymphoides beagleensis Aston](#)  
- is parent taxon of (classification) [Nymphoides crenata \(F. Muell.\) Kuntze](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides crenata \(F. Muell.\) Kuntze](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides duperrea Aston](#)  
- is parent taxon of (classification) [Nymphoides elliptica Aston](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides elliptica Aston](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides exigua \(F. Muell.\) Kuntze](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides exigua \(F. Muell.\) Kuntze](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides ensiflora \(F. Muell.\) Kuntze](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides ensiflora \(F. Muell.\) Kuntze](#) [CHAH 2010]  
- is parent taxon of (classification) [Nymphoides farcuifolia Specht](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides farcuifolia Specht](#) [CHAH 2006]  
- is parent taxon of (classification) [Nymphoides geminata \(R. Br.\) Kuntze](#) [CHAH 2006] 
- is parent taxon of (classification) [Nymphoides geminata \(R. Br.\) Kuntze](#) [CHAH 2010]  

APC (2009)

APC (2010)

APC (2007)

APC (2007)

APC (2007)

APC (2007)

APC (2007)

APC (2010)

APC (2007)

APC (2010)

Rye, B.L. in Wheeler, J.R., Rye, B.E., Koch, B.L., Wilson, A.J.G. (Ed) (1992), *Flora of the Kimberley*

Collection data management

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

Search the Atlas Start new search

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.

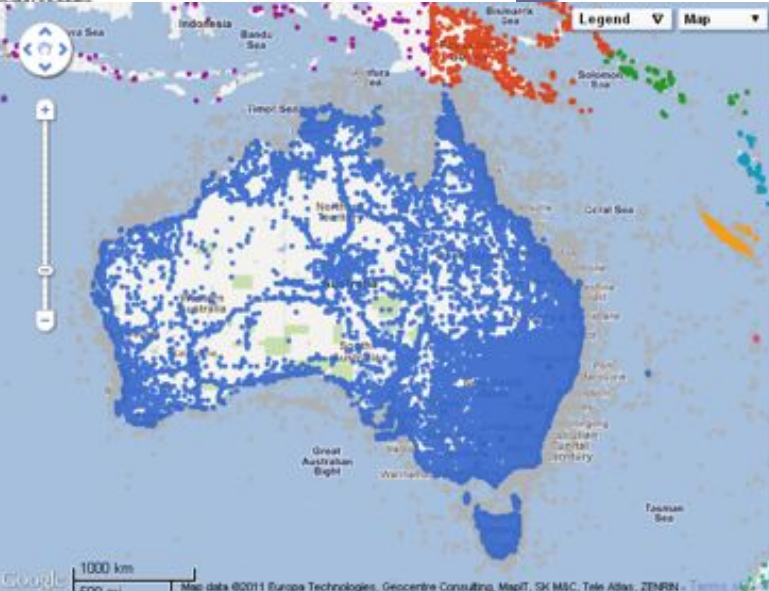
The Australian Museum has worked with Rio Tinto (<http://australianmuseum.net.au/our-corporate-partners/>) to develop BioMaps (<http://www.biomaps.net.au/biomaps2/>), a set of tools for accessing, mapping and analysing Australian biodiversity data. The ALA is exploring ways to collaborate with the Australian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

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. The collection 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 Collection contains 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 known as molluscs. Molluscs include chitons, clams, mussels, snails, nudibranchs (sea slugs), bivalve shells, 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.




Stag Beetles, *Lucania* spp. Photo: Carl Benito © Australian Museum 2007
Carl Benito © Australian Museum



Map data ©2011 Europa Technologies, Geocentre Consulting, MapIT, SK MSC, Tele Atlas, ZENRIN, Terra

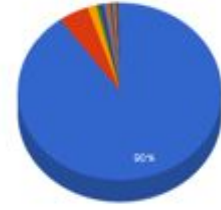
By class



Class	Percentage
Insecta	22.0%
Arthropoda	20.5%
Chordata	18.0%
Mollusca	13.0%
Amphibia	6.5%
Other	10.0%

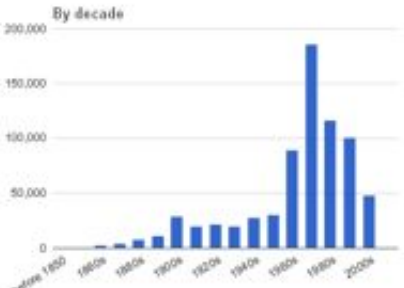
Click a slice to drill into the next taxonomic level. [View all records](#)

By country



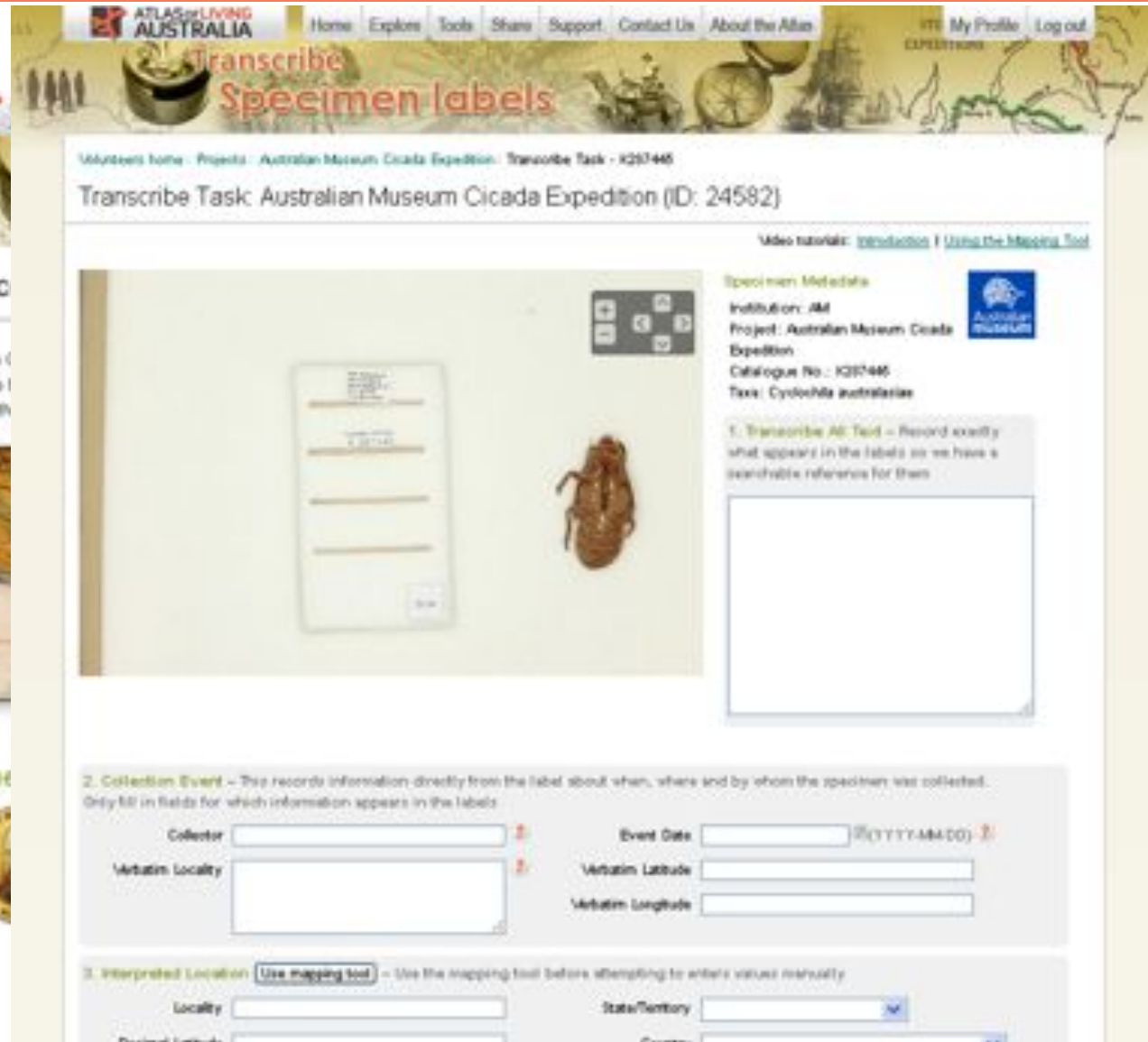
Country	Percentage
Australia	90%
Papua New Guinea	5%
New Caledonia	2%
Solomon Is.	1%
Indonesia	1%
Vanuatu	1%
Norfolk Island	1%
Philippines	1%
India	1%
Maldives	1%
China	1%
New Zealand	1%

By decade



Decade	Approximate Count
before 1900	10,000
1900s	20,000
1910s	15,000
1920s	30,000
1930s	25,000
1940s	20,000
1950s	15,000
1960s	10,000
1970s	80,000
1980s	180,000
1990s	120,000
2000s	100,000

Volunteer involvement



The screenshot shows the ATLAS of Living Australia interface for a transcription task. At the top, there is a navigation bar with links for Home, Explore, Tools, Share, Support, Contact Us, and About the Atlas. On the right, there are links for My Profile and Log out. The main heading is "Transcribe Specimen Labels". Below this, the task is identified as "Transcribe Task: Australian Museum Cicada Expedition (ID: 24582)". A video tutorial link is provided: "Video tutorial: [Introduction](#) | [Using the Mapping Tool](#)".

The central part of the interface features a large image of a specimen label and a cicada. To the right of the image is a "Specimen Metadata" section with the following information:

- Institution: AM
- Project: Australian Museum Cicada Expedition
- Catalogue No.: K207440
- Taxa: *Cyclochila australasiae*

Below the metadata is a text box with the instruction: "1. Transcribe All Text - Record exactly what appears in the labels so we have a searchable reference for them".

The "2. Collection Event" section records information directly from the label. It includes fields for Collector, Event Date (format: YYYY-MM-DD), Verbatim Locality, Verbatim Latitude, and Verbatim Longitude.

The "3. Interpreted Location" section includes a "Use mapping tool" button and fields for Locality, State/Territory, and Country.

Geospatial Data Management

Maxent model for *Epacris impressa*

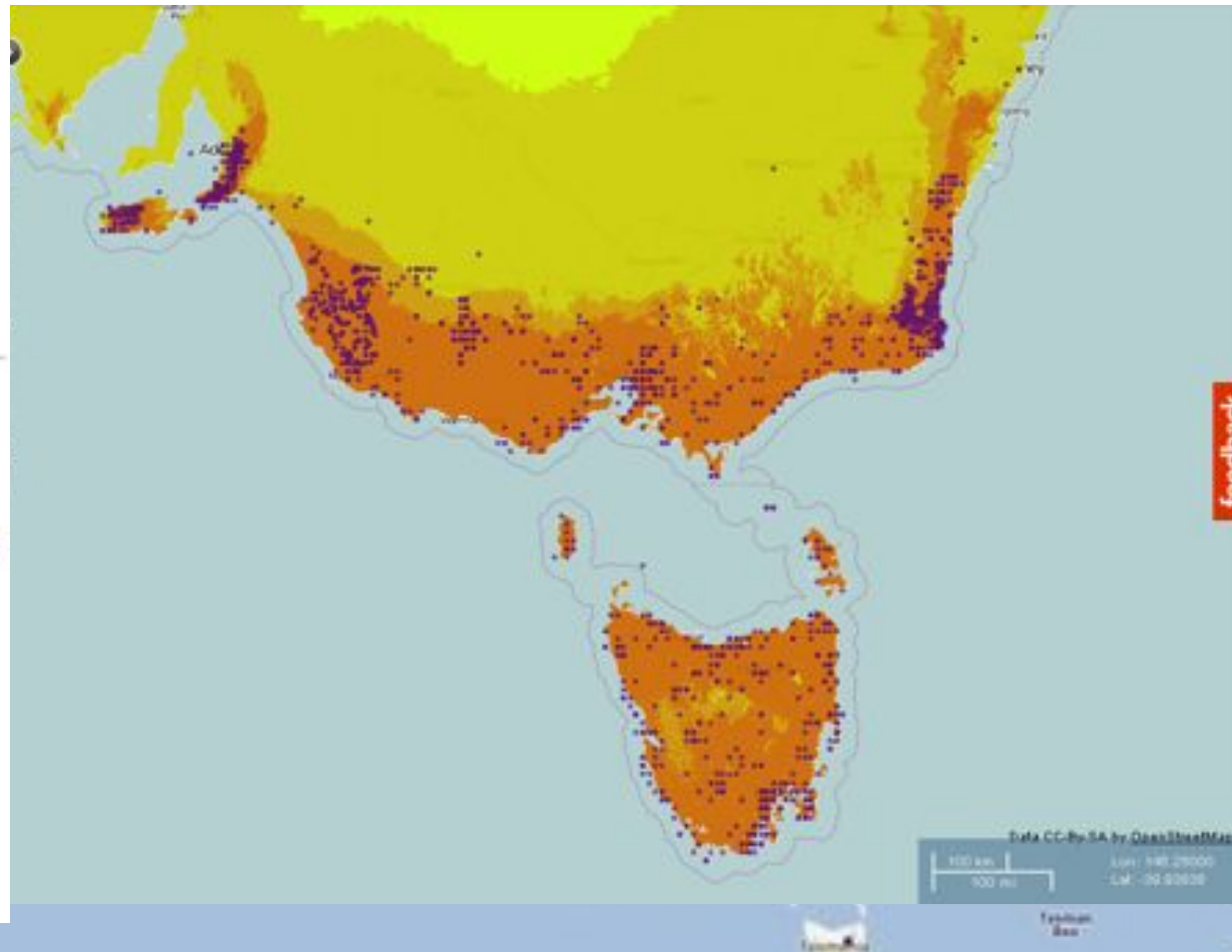
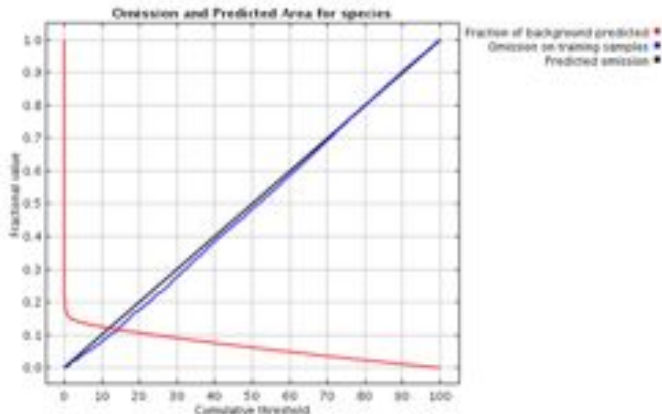
This [Maxent](#) v3.3.3a predictive model for *Epacris impressa* was created Fri Jul 29 13:27:52 EST 2011. Links at the bottom of this page to the raw data may be used for further analysis.

Model reference number: 1311909973484
 Species: *Epacris impressa* (species)
 Layers:

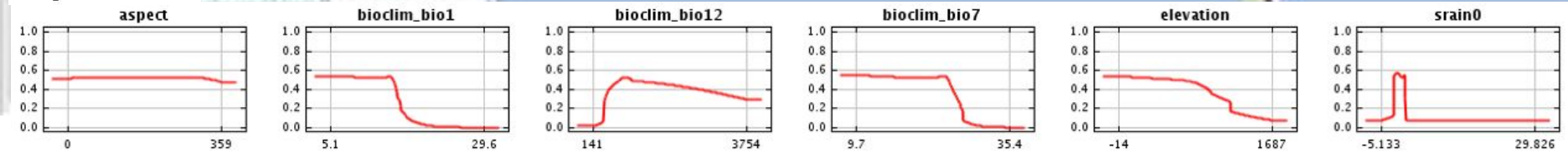
- Precipitation - annual (Bio12) (bioclim_bio12)
- Precipitation - annual seasonality (rain0)
- Temperature - annual mean (Bio11) (bioclim_bio1)
- Temperature - annual range (Bio07) (bioclim_bio7)
- Aspect (aspect)
- Elevation (elevation)

Analysis of omission/commission

The following picture shows the omission rate and predicted area as a function of the cumulative threshold. The omission rate is calculated both on the training presence records, and (if test data are used) on the test records. The omission rate should be close to the predicted omission, because of the definition of the cumulative threshold.



Response curves



Rich Data: Images

Image 2000389
Search Go back (click to login)

About Browse Tools Help


Image Record: [2000389] *Cinclosoma cinnamomeum tirariensis*


Contributor: Australian National Wildlife Collection
Submitter: Peter Benham
Group: CSIRO - ANWC
Date Submitted: 2011-02-17
Last Modified: 2011-02-17
Publish Date: 2010-12-09

Magnification: NULL
Dimension (px): x
Resolution (PPI):
Submitted as: jpg
Original File Name: 040136.jpg
Photographer:

View Id: 2000386
Specimen part: Whole body
Angle: Unspecified
Technique: Unspecified
Preparation: Unspecified

Download: original (jpg) (7.51 MB)
full size (png) (7.51 MB)medium sized (jpg) (211.45 KB)

Copyright: CSIRO
License: 

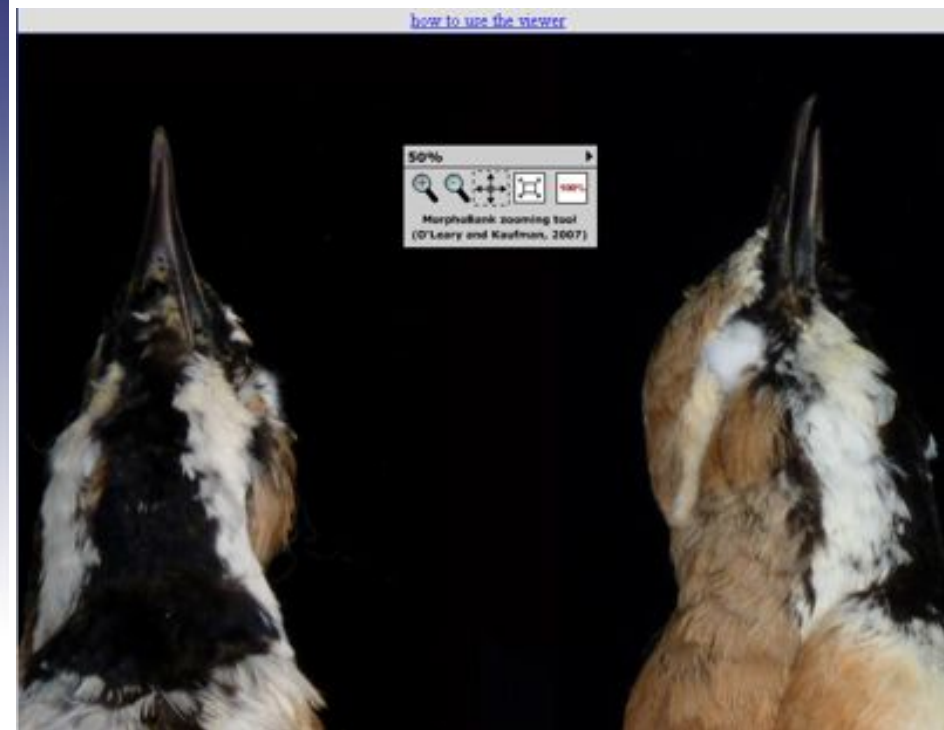


Specimen
Specimen id: 2000387
Basis of record: (5) - Specimen
Sex: M
Form:
Stage:
Catalog number: 40136
Collector: L. Christidis
Date collected: 1985-09-08

Locality [Edit this locality](#)
Locality id: 2000388
Continent ocean:
Country: Australia
Locality: Innamincka Track
Latitude:
Longitude:
Elevation (m):

Determination
Kingdom: [Animalia](#)
Phylum: [Chordata](#)
Class: [Aves](#)
Order: [Passeriformes](#)
Family: [Corvidae](#)
Genus: [Cinclosoma](#)
Species: [Cinclosoma cinnamomeum](#)
Subspecies: [Cinclosoma cinnamomeum tirariensis](#)

External links/identifiers
External Unique Reference:
External identification: ANWC-2-00083
Specimen 2000387 External identification: ANWC-5-00083
Web Page:



Rich Data: Literature

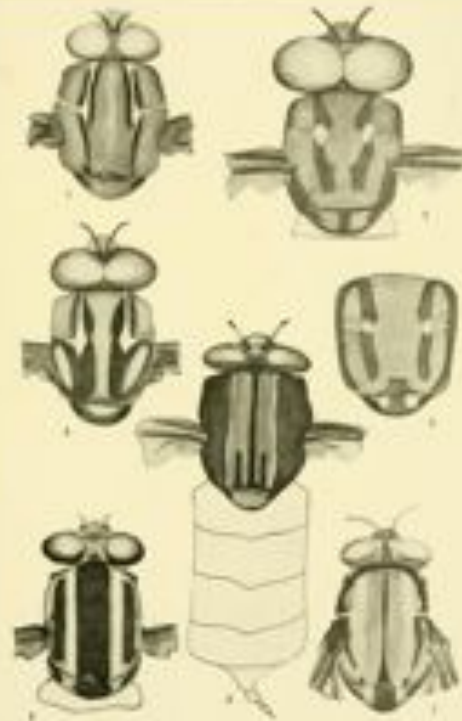
Records of the Australian Museum.

Bibliography

Volume 13 (1890-1891) Download Book

347 PDF 360 Pages Added Refresh Generate

- DESCRIPTIONS OF NEW BEETLES FROM THE AUSTRALIAN MUSEUM.
- 1. *Stenocera* (new genus) from the collection of ...
 - 2. *Stenocera* (new species) from the collection of ...
 - 3. *Stenocera* (new species) from the collection of ...
 - 4. *Stenocera* (new species) from the collection of ...
 - 5. *Stenocera* (new species) from the collection of ...
 - 6. *Stenocera* (new species) from the collection of ...
 - 7. *Stenocera* (new species) from the collection of ...
 - 8. *Stenocera* (new species) from the collection of ...



Rich Data: Identification tools



1	taxon	feature	state	value	inferred	certainty	frequency	created	createdby		
2	Acacia affin. trachycarpa	Phyllode midrib position	central	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
3	Acacia affin. trachycarpa	Phyllode midrib position	markedly excentric	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
4	Acacia affin. trachycarpa	Phyllode apex (pungency)	sharply pungent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
5	Acacia affin. trachycarpa	Phyllode apex (pungency)	coarsely pungent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
6	Acacia affin. trachycarpa	Phyllode apex (pungency)	not pungent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
7	Acacia affin. trachycarpa	Phyllode base (decurrence)	continuous with branchlets	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
8	Acacia affin. trachycarpa	Phyllode base (decurrence)	not continuous with branchlets	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
9	Acacia affin. trachycarpa	Pulvinus (presence)	present	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
10	Acacia affin. trachycarpa	Pulvinus (presence)	absent or very reduced	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
11	Acacia affin. trachycarpa	Gland at apex of phyllodes	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
12	Acacia affin. trachycarpa	Branchlet hairs (presence)	present	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
13	Acacia affin. trachycarpa	Gland at apex of phyllodes	absent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
14	Acacia affin. trachycarpa	Gland connected to midrib by nerve (phyllodes)	yes	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
15	Acacia affin. trachycarpa	Gland connected to midrib by nerve (phyllodes)	no	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
16	Acacia affin. trachycarpa	Petiole glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
17	Acacia affin. trachycarpa	Petiole glands (presence)	absent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
18	Acacia affin. trachycarpa	Jugary glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
19	Acacia affin. trachycarpa	Jugary glands (presence)	absent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
20	Acacia affin. trachycarpa	Jugary glands (position)	present between all pairs of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
21	Acacia affin. trachycarpa	Jugary glands (position)	present between the lower pair(s) of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
22	Acacia affin. trachycarpa	Jugary glands (position)	present between the upper part(s) of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
23	Acacia affin. trachycarpa	Branchlet hairs (orientation)	appressed	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer		
24	Acacia affin. trachycarpa	Jugary glands (position)	present between only a few pair of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		
25	Acacia affin. trachycarpa	Interjugary glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:18	importer		

A dichotomous key to the species of *Chamaecrista* in Australia, from the Flora of Australia [Details ...](#)

Key to the species of *Labiichea* in Australia

A dichotomous key to the species of *Labiichea* in Australia, from the Flora of Australia [Details ...](#)

Species pages

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

Search the Atlas

Home : Explore : *Grus rubicunda* (Perry, 1810) : Brolga

Grus rubicunda (Perry, 1810)
Brolga

Rank Species
Name source [Australian Faunal Directory](#)
Data links [LSID](#) | [JSON](#)

Animals Chordata Aves Gruiformes Gruidae Grus *Grus rubicunda*

Overview Gallery Names Classification Records Literature

Mapped occurrence records
[View occurrence records list](#) | [View interactive map](#)

Learn more about Atlas maps

RECORDED IN AUSTRALIA **TERRESTRIAL HABITATS** **IUCN** **SA** **VULNERABLE**
VIC **NSW** **VULNERABLE** **VULNERABLE**

Share
Sightings, photos and data for the Brolga

Description

The Brolga is quite unmistakable in southern Australia. (Australia's only other crane, the Sarus Crane, is found only in far northern Australia.) It is a huge bird - one of Australia's largest flying birds - standing 1.3 metres tall with a wingspan of nearly 2.5 metres. It is pale bright grey with a broad band of bare red skin from the beak round the nape of the neck and a black dewlap under the chin. ...
source: [Department of Environment and Conservation - NSW threatened species](#)

The full-grown Brolga is a tall, mid-grey to silver-grey crane, 0.7–1.3 m (3.3–4.3 ft) high, with a wingspan of 1.7–2.4 m (5.6–7.9 ft), and a broad red band extending from the straight, bone-coloured bill around the back of the head. Juveniles lack the red band. Adult males average at a little under 7 kg (15 lb), females a little under 6 kg (13 lb). ...
source: [Wikipedia](#)

Regional summaries



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

Search the Atlas

Logged in as donald.haber@csiro.au

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)


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

Display records in a km radius [View all occurrence records](#)

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 pavidia</i>	1
Bacteria	0	40. <i>Acanthorhynchus tenuirostris</i> (Eastern Spinebill)	1



Citizen science




Home Explore Tools Share Support Contact Us About the Atlas

Search the Atlas

My Profile Log out

Logged in as donald.hobem@csiro.au

Share a Sighting

Elanus axillaris : Black-shouldered Kite 

Date: 21 Sep 2011

Time: 15:55

Individual Count: 1

Location: LOT 7 Hume Hwy, Glenfield NSW 2167, Australia

Latitude: -33.973051

Longitude: 150.874739

Coordinate: 500

Uncertainty in Meters:


Additional Comments: Hovering and heading south

Media File: No file chosen

Bookmarked locations: -- select bookmarked location --

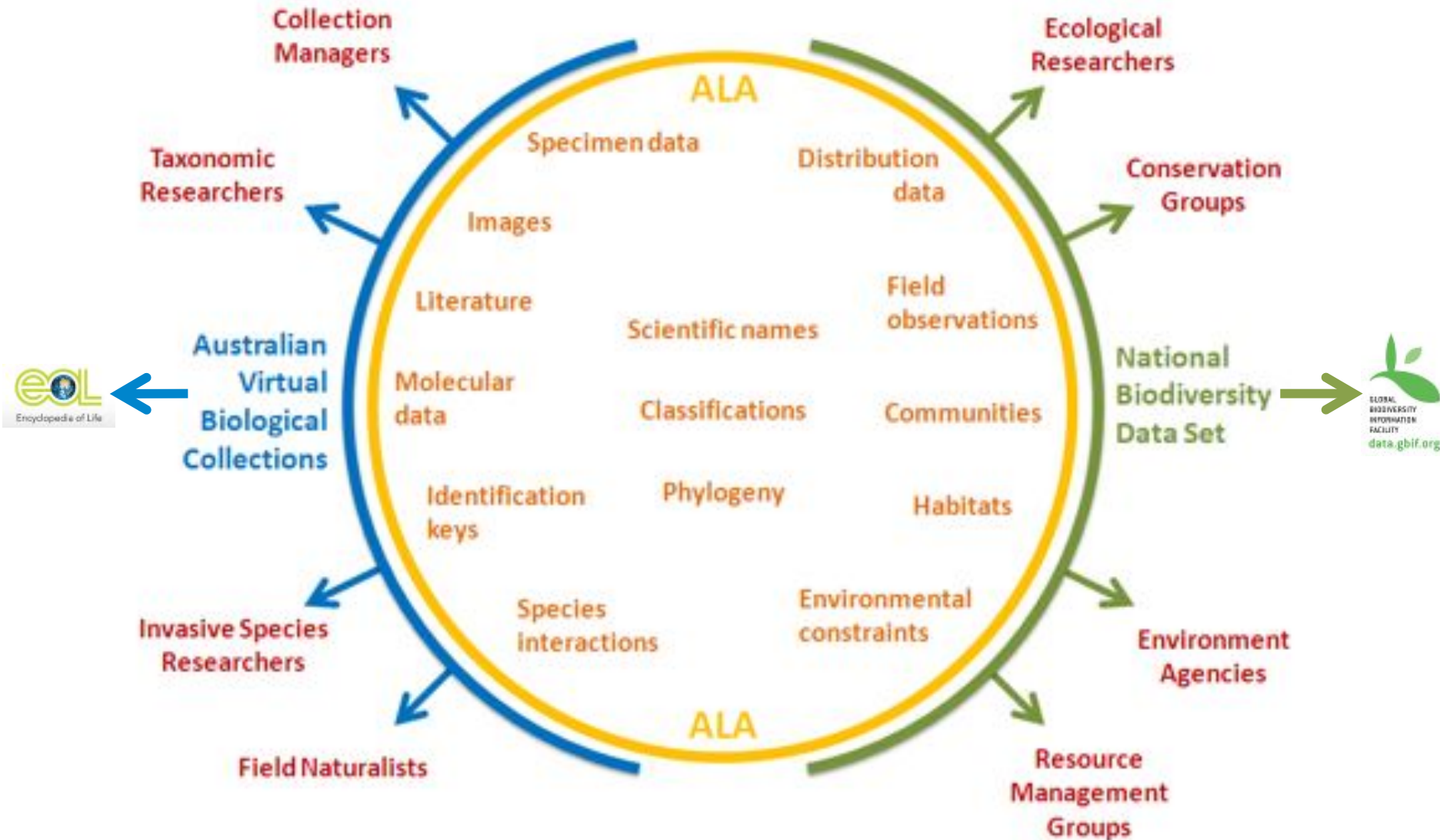
Hume Highway, near South Western Motorway

Bookmark location Set as default



Hints: click and drag the marker to fine-tune the location coordinates.

ALA and user communities



Adoption of ALA by users



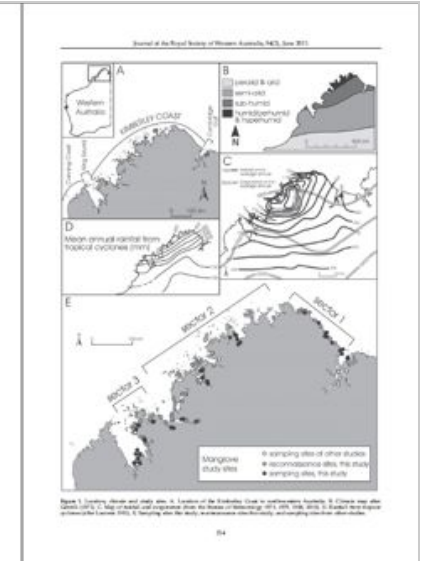
InBIF Wildlife Institute of India - Atlas of Living Australia Mentoring Project

Wildlife Institute of India, New Delhi, India. This page details a mentoring project between InBIF and ALA. It includes sections for 'Project Objectives', 'Mentoring Activities', and 'Project Outcomes'. The page features several photographs of wildlife and project participants, along with text describing the collaborative efforts to enhance biodiversity data and research.

Mangroves of the Kimberley Coast: ecological patterns in a tropical ria coast setting

Journal of the Royal Society of Western Australia 94: 33-37 (2011)

This is the title page of a scientific paper. It includes the authors' names (J.J. Clouston and V. Yonemitsu), their affiliations (CSIRO Health, Water & Ocean Policy, and the University of Queensland), and the journal information. The abstract and introduction are partially visible.



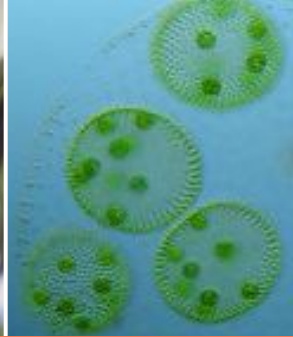
ALA tools and services adopted for Great Eastern Ranges restoration corridor activities

ALA mentoring activity with Indian Biodiversity Information Facility

Mangroves of the Kimberley Coast: ecological patterns in a tropical ria coast setting - paper referencing data accessed through ALA



Web visits per week July 2010 to September 2011



The Atlas of Living Australia Participants

www.ala.org.au



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



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