www.ala.org.au

The Atlas of Living Australia

A National Biodiversity Information Facility

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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:

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.)

Regional Atlas

Species Pages

Biosecurity Portal

Annotation Tools

Distribution

Metadata repository

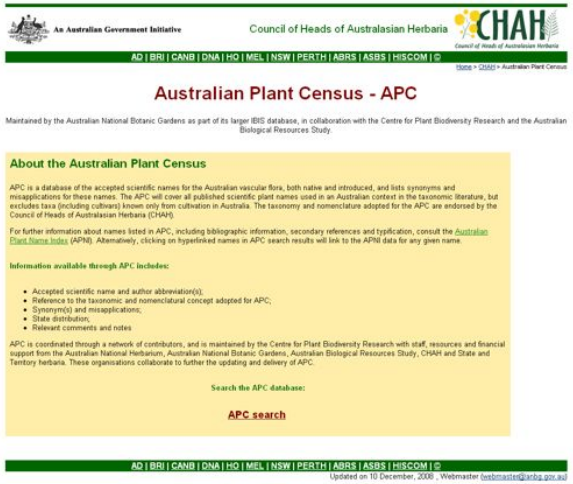
Names and Classification

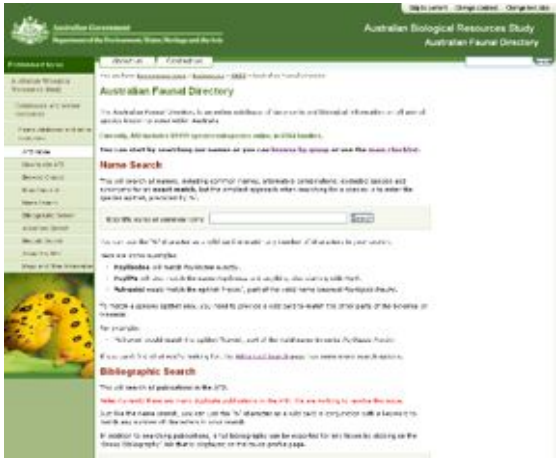
Links to international projects

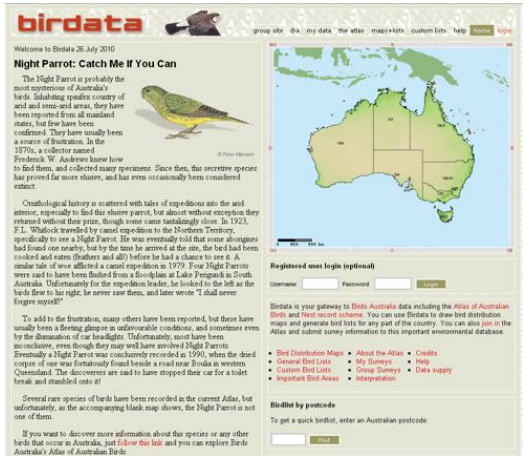
Metadata (source, methods, ownership, access, etc.)

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

Australian National Species Lists

- Web Services and User Interfaces
- Completed National Checklists (AFD, APC, etc.)
- Legislative and Thematic Lists
- Directory of Taxonomic Expertise
- Community Editing and Workflow Tools

Data Dissemination

- Biodiversity Information Explorer
- Citizen Science Portal
- Pest Information Portal
- Conservation Portal

Data Integration

- Ontologies and Vocabularies
- Metadata Repository
- User Authentication and Identity Management
- Annotation Services
- Quality Control and Sensitive Data Tools

Rich Data Stores

- Descriptive Data (IdentifyLife)
- Species Interactions
- Images (MorphBank)
- Sequences (BOLD)
- Digital Literature (BHL)

Collection Data Management

- Field Capture of Metadata
- Accession Processing
- Digitisation and Imaging Support
- Database Integration Wrappers
- Integrated Data Sets
  - AVH
  - APPD
  - OZCAM
  - AMRiN
  - OBIS

Geospatial Data Management

- Regional Atlas
- GIS Tools
- Directory of Environmental Layers
- Geospatial Data Cache

ALA Project Office

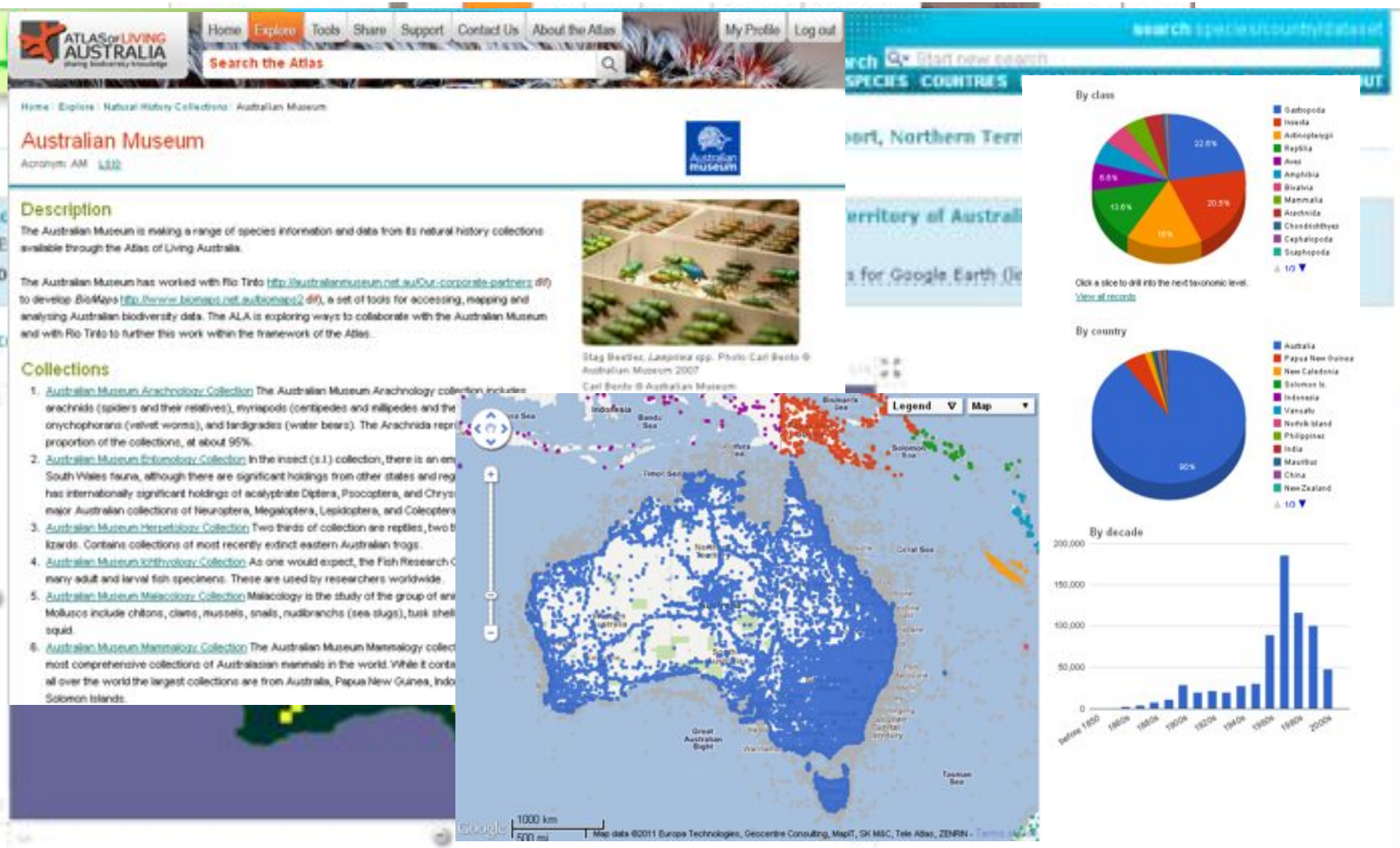
National species lists

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)	Limnanthemum S.G.Gmel.
includes (taxonomic)	Villarsia sect. Limnanthemum (S.G.Gmel.) F.Muell.
is child taxon of (classification)	Menyanthaceae Dumort. [CHAH 2008]	APC (2009)
is parent taxon of (classification)	Nymphoides aurantiaca (Dalzell) Kuntze [CHAH 2006]	
is parent taxon of (classification)	Nymphoides aurantiaca (Dalzell) Kuntze sensu Arber, H.I. (2009)	APC (2010)
is parent taxon of (classification)	Nymphoides beaglensis Aston	APC (2007)
is parent taxon of (classification)	Nymphoides crenata (F.Muell.) Kuntze [CHAH 2006]	APC (2007)
is parent taxon of (classification)	Nymphoides crenata (F.Muell.) Kuntze [CHAH 2006]	
is parent taxon of (classification)	Nymphoides disperma Aston	APC (2007)
is parent taxon of (classification)	Nymphoides elliptica Aston [CHAH 2006]	APC (2007)
is parent taxon of (classification)	Nymphoides elliptica Aston [CHAH 2006]	
is parent taxon of (classification)	Nymphoides exigua (F.Muell.) Kuntze [CHAH 2006]	APC (2007)
is parent taxon of (classification)	Nymphoides exigua (F.Muell.) Kuntze [CHAH 2006]	
is parent taxon of (classification)	Nymphoides exiliflora (F.Muell.) Kuntze [CHAH 2006]	
is parent taxon of (classification)	Nymphoides exiliflora (F.Muell.) Kuntze [CHAH 2010]	APC (2010)
is parent taxon of (classification)	Nymphoides furculifolia Specht [CHAH 2006]	APC (2007)
is parent taxon of (classification)	Nymphoides furculifolia 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 (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



Volunteer involvement

Geospatial Data Management

ATLAS OF LIVING AUSTRALIA

Maxent model for Epacris impressa

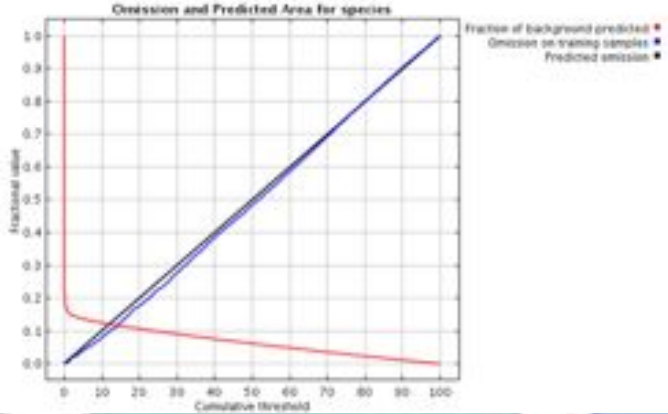
This Maxent v3.3.3a predictive model for Epacris impressa was created Fri Jul 29 13:27:52 EST 2011. Links at the bottom of this page to the raw data may be used for further analysis.

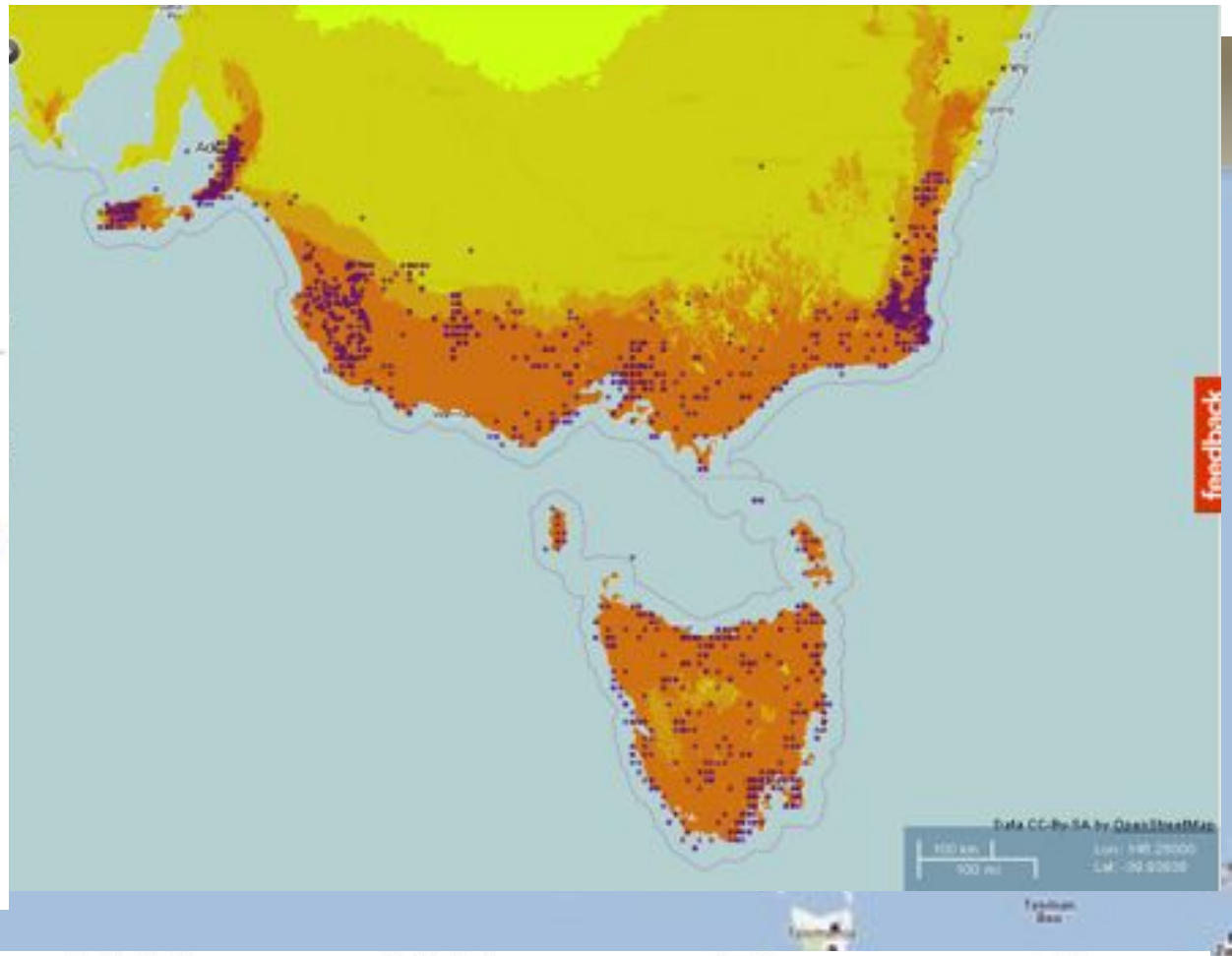
Model reference number: 1311909973484
Species: Epacris impressa (species)
Layers:

- Precipitation - annual (Bio12) (bioclim_bio12)
- Precipitation - annual seasonality (srain0)
- Temperature - annual mean (Bio01) (bioclim_bio1)
- Temperature - annual range (Bio07) (bioclim_bio7)
- Aspect (aspect)
- Elevation (elevation)

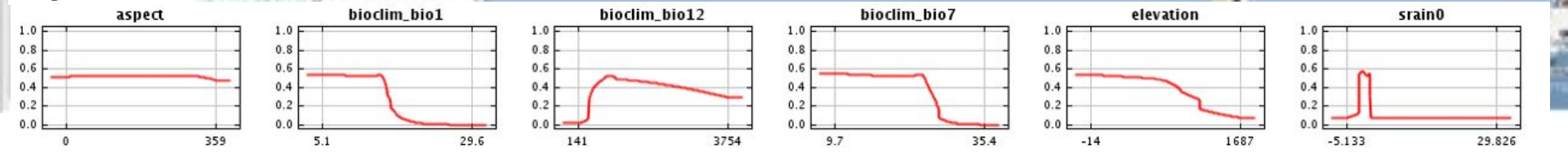
Analysis of omission/commission

The following picture shows the omission rate and predicted area as a function of the cumulative threshold. The omission rate is 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.

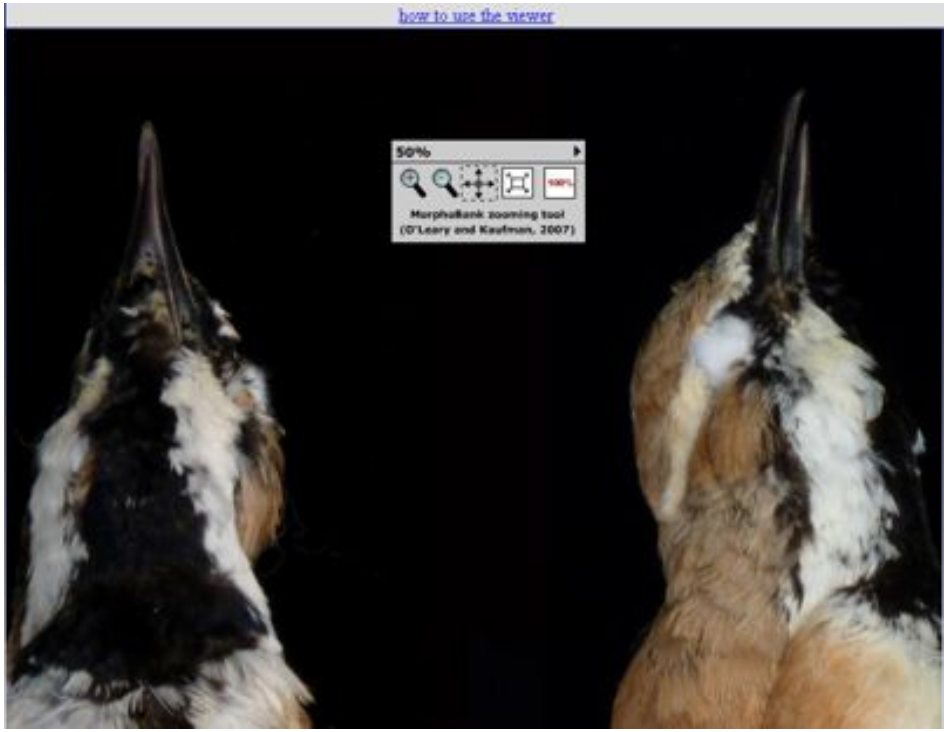




Response curves



Rich Data: Images



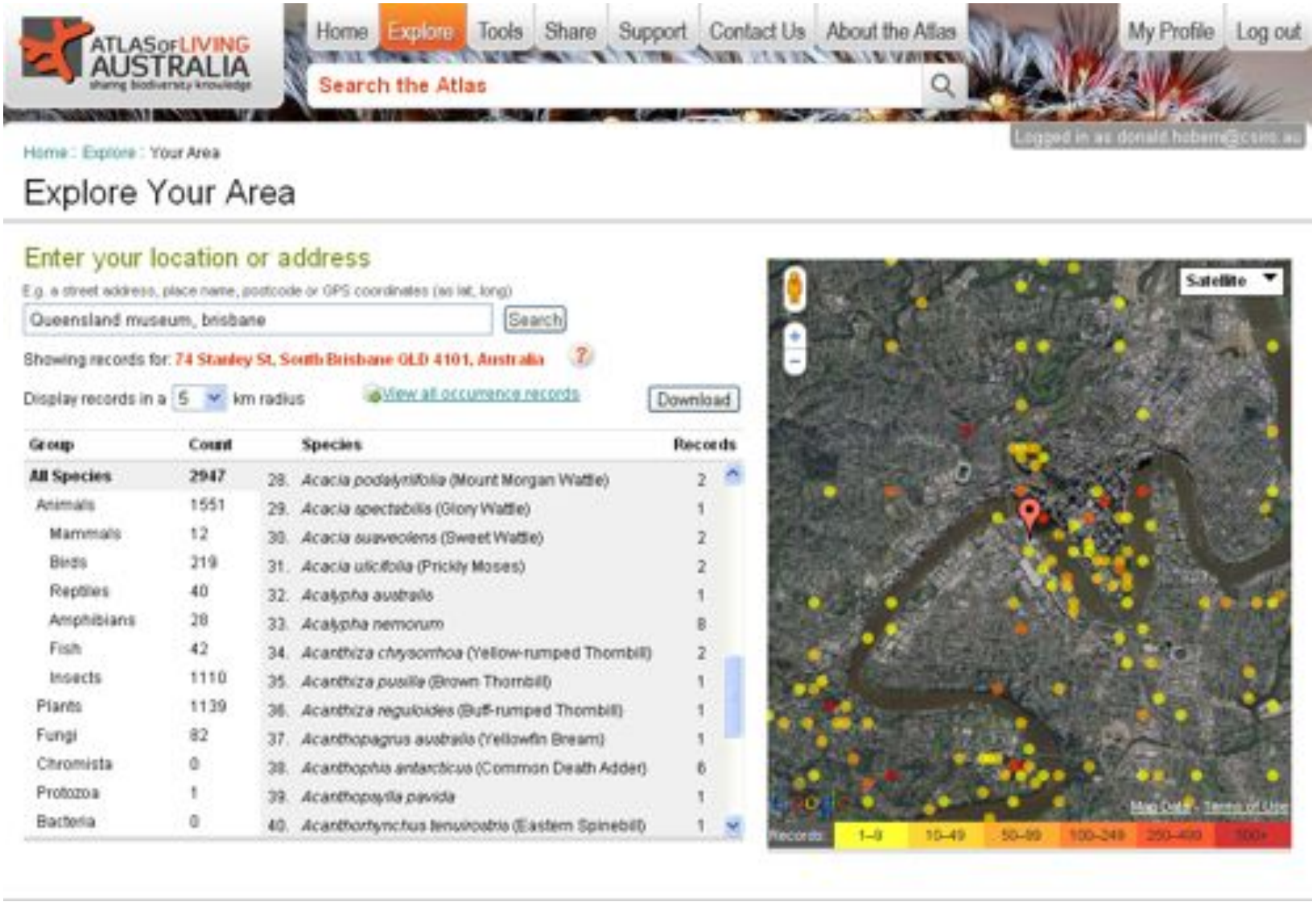
Rich Data: Literature

Rich Data: Identification tools

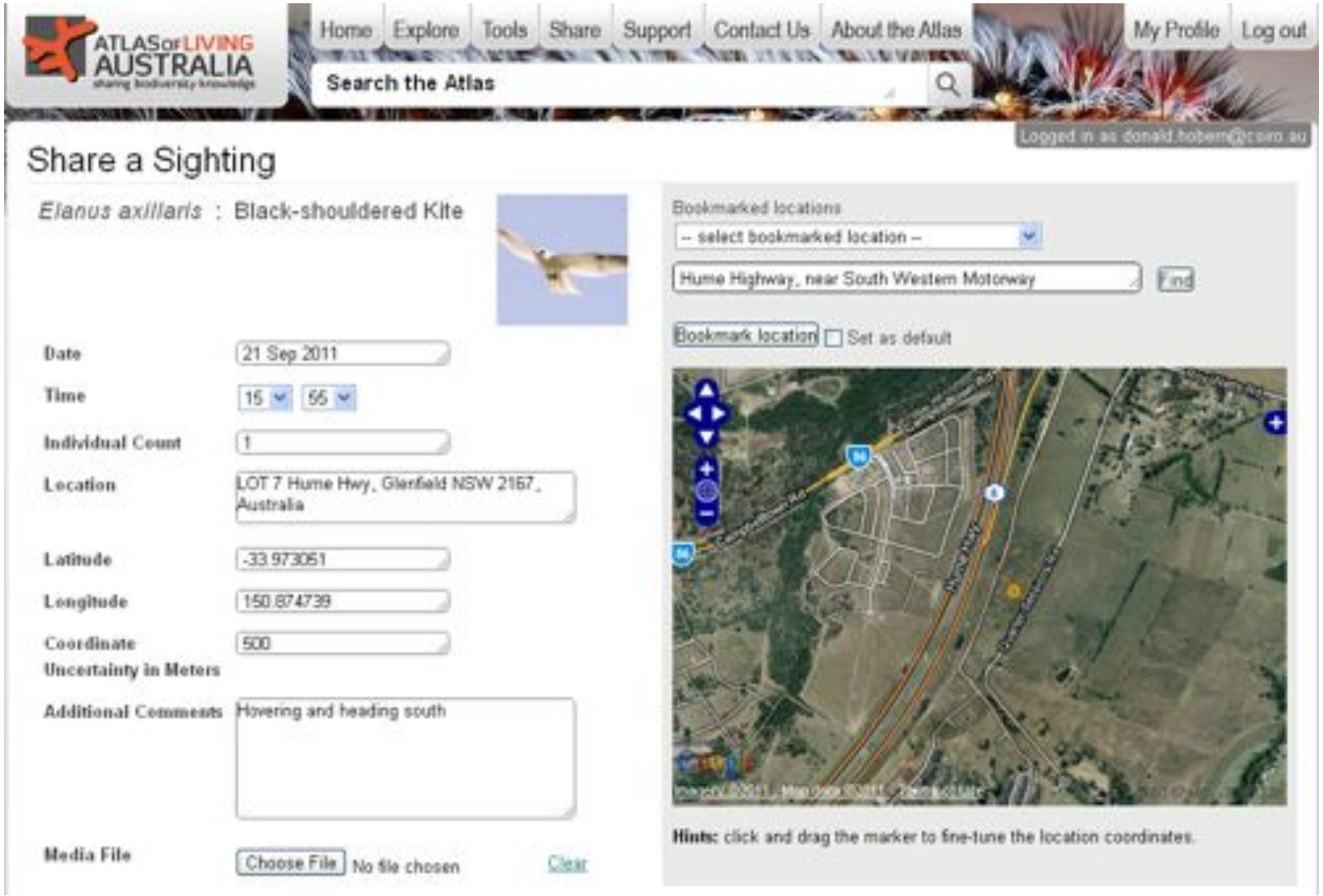
taxon	feature	state	value	inferred	certainty	frequency	created	creatednby
Acacia affin. trachycarpa	Phyllode midrib position	central	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Phyllode midrib position	markedly excentric	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Phyllode apex (pungency)	sharply pungent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Phyllode apex (pungency)	coarsely pungent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Phyllode apex (pungency)	not pungent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Phyllode base (decurrence)	continuous with branchlets	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Phyllode base (decurrence)	not continuous with branchlets	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Pulvinus (presence)	present	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Pulvinus (presence)	absent or very reduced	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Gland at apex of phyllodes	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Branchlet hairs (presence)	present	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Gland at apex of phyllodes	absent	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Gland connected to midrib by nerve (phyllodes)	yes	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Gland connected to midrib by nerve (phyllodes)	no	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Petiolar glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Petiolar glands (presence)	absent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Jugary glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Jugary glands (presence)	absent	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Jugary glands (position)	present between all pairs of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Jugary glands (position)	present between the lower pair(s) of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Jugary glands (position)	present between the upper pair(s) of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Branchlet hairs (orientation)	appressed	PRESENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:15	importer
Acacia affin. trachycarpa	Jugary glands (position)	present between only a few pair of pinnae	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer
Acacia affin. trachycarpa	Interjugary glands (presence)	present	ABSENT	FALSE	CERTAIN	FREQUENT	27/07/2011 0:16	importer

Species pages

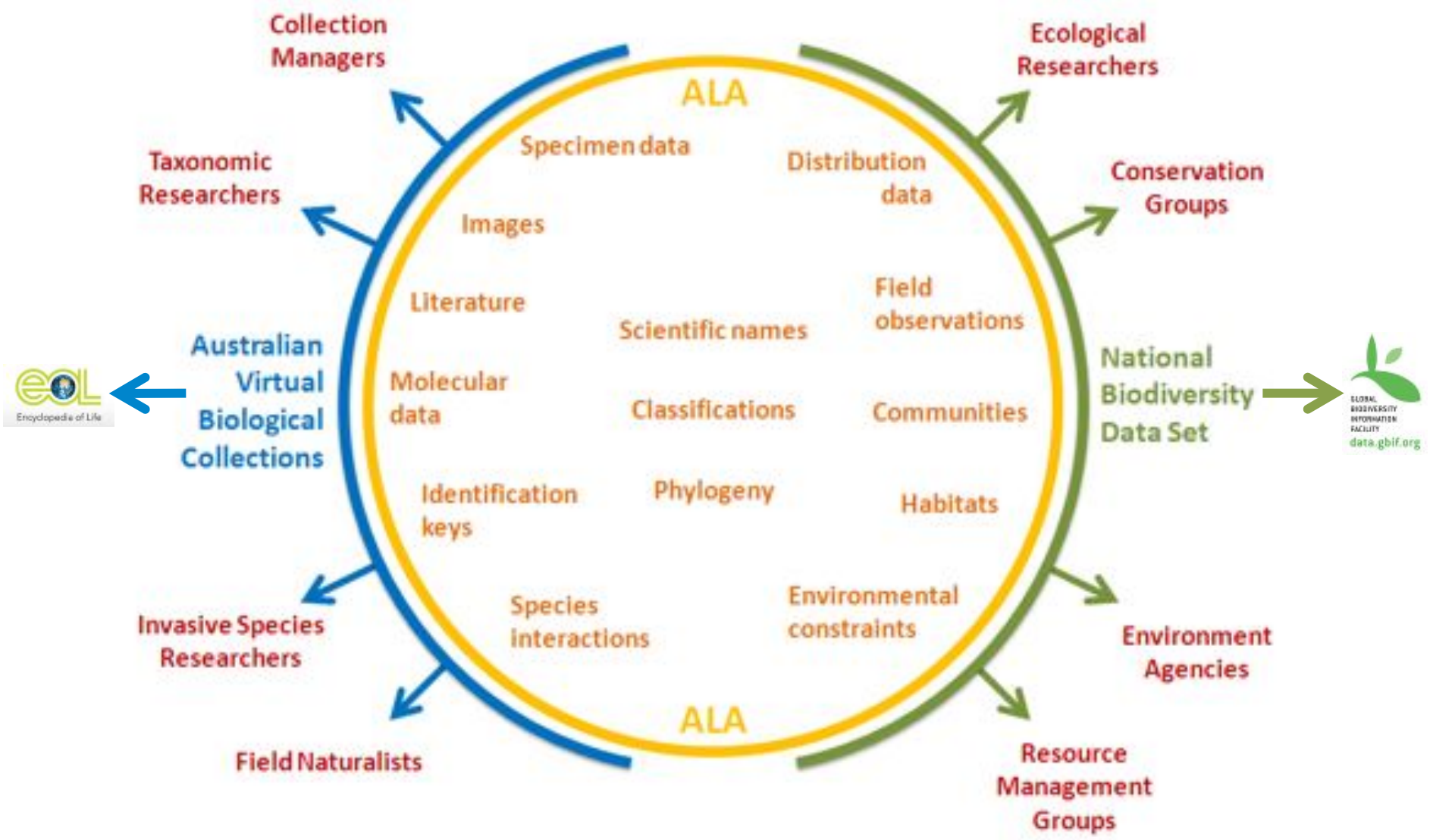
Regional summaries



Citizen science



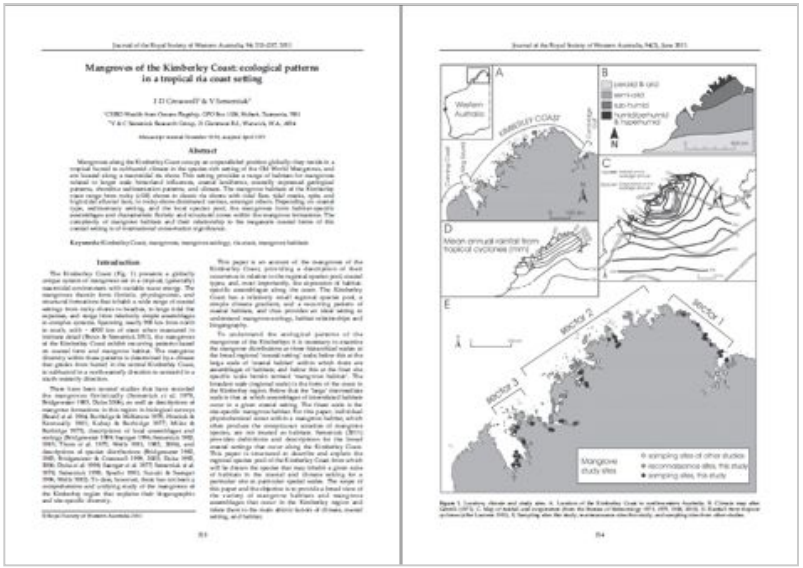
ALA and user communities



Adoption of ALA by users

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

Australian museum
nature culture discover

MUSEUMVICTORIA

Queensland Government

qm queensland museum
www.qm.qld.gov.au

Tasmanian Museum & Art Gallery

Tasmania
Explore the possibilities

Australian Government
Department of the Environment, Water, Heritage and the Arts

ABRS

CSIRO

Australian Government
Department of Agriculture, Fisheries and Forestry

THE UNIVERSITY OF ADELAIDE
AUSTRALIA

CHAH
Council of Heads of Australasian Herbaria

Southern Cross UNIVERSITY
A new way to think

South Australian Museum

MUSEUM AND ART GALLERY NORTHERN TERRITORY

Northern Territory Government

museum

ATLAS OF LIVING AUSTRALIA
sharing biodiversity knowledge

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)

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