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The Atlas of Living Australia

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Education Services Australia
Canberra, 21 December 2011



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



The Atlas of Living Australia Participants

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Tasmanian Museum
& Art Gallery



South Australian Museum

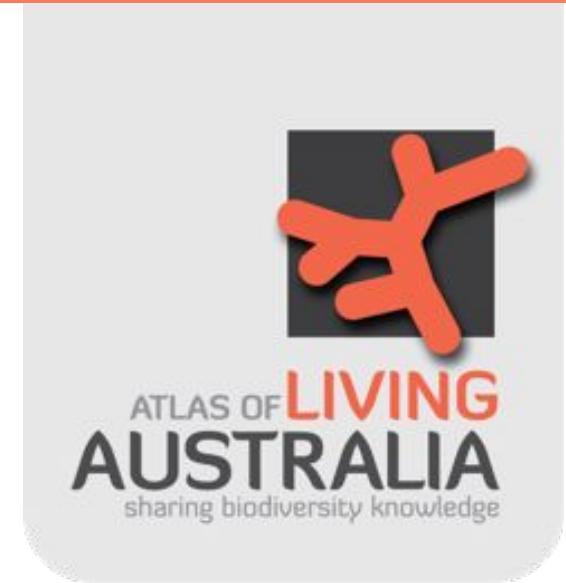


The Council of Heads of Australian
Faunal Collections (CHAFC)
The Council of Heads of Australian
Entomological Collections (CHAEC)



An Australian Government Initiative
National Collaborative Research
Infrastructure Strategy

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



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

ALA - current investment

- Australian Government funding
 - NCRIS 2006-2012: \$8.2M
 - EIF Super Science 2009-2012: \$30.0M
 - ALA partner in-kind contributions
- Mission
 - To develop an authoritative, freely accessible, distributed and federated biodiversity data management system

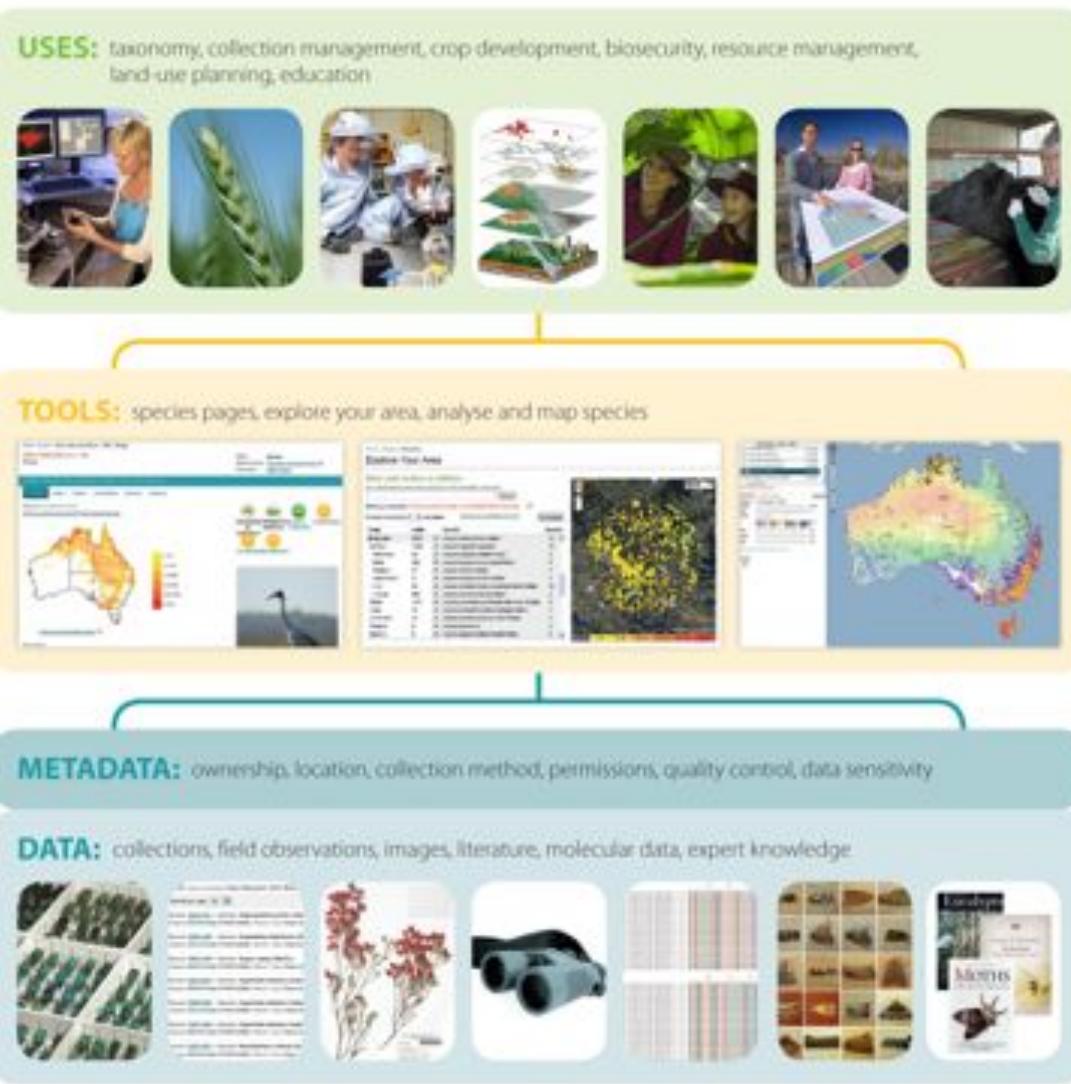
● Partners

- **Representative bodies:**
 - Council of Heads of Australasian Herbaria
 - Council of Heads of Australian Faunal Collections
 - Council of Heads of Australian Entomological Collections
 - Council of Heads of Australian Collections of Microorganisms
 - Council of Australasian Museum Directors
- **State museums:**
 - Australian Museum
 - Museum and Art Gallery of the Northern Territory
 - Museum Victoria
 - Queensland Museum
 - South Australian Museum
 - Tasmanian Museum and Art Gallery
 - Western Australian Museum
- **Government:**
 - CSIRO – lead agent
 - Department of Sustainability, Environment, Water, Population and Communities
 - Department of Agriculture, Fisheries and Forestry
- **Universities:**
 - Southern Cross University
 - University of Adelaide

Integrating it all



DIGITISATION



Public involvement

- Citizen science
- Volunteer portal
- Annotations

Links to international projects



Barcode
of Life

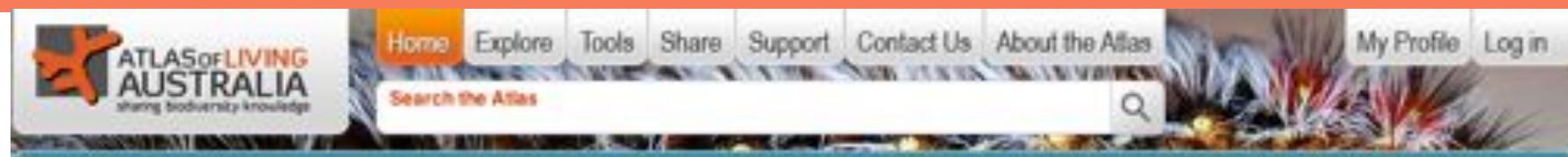


- Integrated picture of Australia's biodiversity
 - Plants, animals, microorganisms and molecular
 - Marine and terrestrial
 - Native and non-native.
- Information and tools to support
 - Species identification
 - Taxonomy and collection management
 - Education
 - 'Citizen or Community science'
 - Conservation and land-use management
 - Ecological and agricultural research
 - Biosecurity.

Data, Information and Tools

- 170,000 species pages
- Species biology, ecology, status
- 25 million+ occurrence records (distribution)
- Mapping tools
- Photos and images
- Names and classification
- Identification tools
- Heritage literature
- Data on biological collections
- Citizen science and education – add sightings & data
- Volunteer involvement.

Atlas Site Homepage



The Atlas has delivered essential infrastructure and a suite of powerful tools to support research, natural resource management, policy and education.

Get Started
with examples, forums, videos and frequently asked questions

Explore
information on species, maps, collections and regions

Share
sightings, photos and information

New & Noteworthy



[Volunteer Portal](#) [Natural History Collections](#) [Explore Your Area](#)



Australian Barcode of Life Network (ABOLN) /



About Identity Lite



GBIF

Atlas updates

6 DECEMBER, 2011 [Spatial Precision - What's this all about?](#)

6 DECEMBER, 2011 [EPA Conference busy with Atlas demonstrations](#)

[More updates](#)

About the Atlas

The Atlas of Living Australia is a national initiative focused on making Australia's biodiversity information more accessible and useable online. It is a partnership between CSIRO, Australian museums, herbaria and other biological collections, and the Australian Government. [Learn more »](#)

An Australian Government Initiative
National Collaborative Research Infrastructure Strategy

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Sharing biodiversity knowledge to shape our future

www.ala.org.au

170,000+ Species Pages

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Search the Atlas 

Logged in as donald.hobson@csiro.au

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

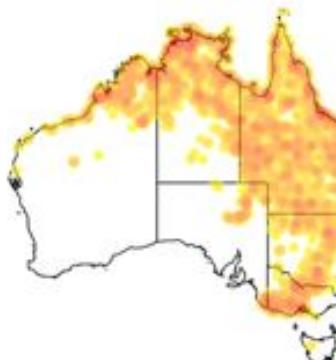
Grus rubicunda (Perry, 1810)
Brolga

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 

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 a little under 7 kg (15 lb), females a little under 6 kg (13 lb). ...

SOURCE: [Wikipedia](#) 

Recorded in Australia 

Terrestrial habitats 

IUCN 

SA 

VIC 

NSW 



Share
Sightings, photos and data for the **Brolga** 

26 Million+ Occurrence Records

[Home](#) > [Explore](#) > *Callocephalon fimbriatum* (Gang-gang Cockatoo)

Callocephalon fimbriatum (J. Grant, 1803)

Gang-gang Cockatoo

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

[Animals](#) | [Chordata](#) | [Aves](#) | [Psittaciformes](#) | [Cacatuidae](#) | [Callocephalon](#) | [Callocephalon fimbriatum](#)

[Overview](#) | [Gallery](#) | [Names](#) | [Classification](#) | [Records](#) | [Literature](#)

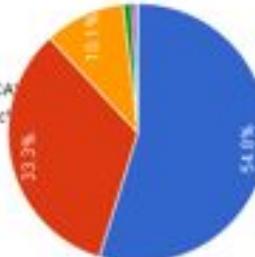
Occurrence Records

[View list of all 10,565 occurrence records for this taxon](#)

By Dataset

- BirdData: [5,842 records](#)
- DECCW Atlas of NSW Wildlife: [3,553 records](#)
- Eremaea: [1,074 records](#)
- Museum Victoria provider for OZCAM: [112 records](#)
- Australian National Wildlife Collection provider for OZCAM: [80 records](#)
- South Australia Fauna Observations: [11 records](#)
- Australian Museum provider for OZCAM: [4 records](#)
- Tasmanian Museum and Art Gallery provider for OZCAM: [4 records](#)
- Barcode of Life: [2 records](#)
- EOL Flickr Group: [1 records](#)
- Individual Sightings: [1 records](#)
- Western Australia Museum provider for OZCAM: [1 records](#)

- | | |
|--|-------|
| Bindata | 54.6% |
| DECCW Atlas of NSW Wildlife | 33.5% |
| Eremaea | 4.1% |
| Museum Victoria provider for OZCAM | 1.1% |
| Australian National Wildlife Collection provider for OZCAM | 0.1% |
| Other | 0.7% |



Share

Sightings, photos and data for the
Gang-gang Cockatoo



Map of Occurrence Records



[Interactive version of this map](#)

26 Million+ Occurrence Records

[Home](#) : [Explore](#) : [Occurrence Records](#)

Occurrence Records

[View as Map](#) [Download](#)

Refine results

10,665 results returned for species: **Callocephalon fimbriatum** : Gang-gang Cockatoo

Record Type

[Observation](#) (10,481)
[Specimen](#) (183)
[Unknown](#) (1)

Results per page

Sort by Sort order

Record: [180739974](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Western Australia Museum Provider For OZCAM Record Type: Specimen State: NSW

Specimen Type

[Not A Type](#) (580)
[Not Applicable](#) (1)

Record: [182031675](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 1987-01-26 State: VIC

Record: [182031676](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2001-04-29

Dataset

[Biodata](#) (5,842)
[DECCW Atlas Of NSW Wildlife](#) (3,553)
[Eremaea](#) (1,074)
[Museum Victoria Provider For OZCAM](#) (112)
[+ Show More](#)

Record: [182031677](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2004-01-13 State: NSW

Record: [182031678](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2003-09-22 State: VIC

Record: [182031679](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 1987-04-15 State: ACT

State/Territory

[New South Wales](#) (5,260)
[Victoria](#) (4,853)
[Australian Capital Territory](#) (341)
[South Australia](#) (133)
[+ Show More](#)

Record: [182031680](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2002-01-05 State: VIC

Record: [182031681](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2001-12-27 State: VIC

Biogeographic Region

[South Eastern Highlands](#) (3,057)
[Southern Basin](#) (2,714)
[South East Corner](#) (1,254)
[South East Coastal Plain](#) (1,116)
[+ Show More](#)

Record: [182031682](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 2002-10-31 State: VIC

Record: [182031683](#) — Species: Callocephalon fimbriatum | Gang-gang Cockatoo

Dataset: Eremaea Record Type: Observation Record Date: 1997-03-16 State: VIC

A Single Occurrence Record

[Home](#) : [Explore](#) : Occurrence Record - 180739974

Logged in as Donald.Hobson@csiro.au

Occurrence Record Details: 180739974

Dataset

[Annotate Dataset](#)
Data Provider OZCAM (Online Zoological Collections of Australian Museums) Provider

Data Set Western Australia Museum provider for OZCAM

Institution Western Australian Museum

Institution Code: "WAM"

Collection Western Australian Museum Bird Collection

Collection Code: "AVIF"

Catalogue Number 172

Basis of Record specimen

Supplied as: "PreservedSpecimen"

Comments [0 comments]

Possible Issues

Data validation tools identified the following possible issues:

- Miscellaneous issues: country inferred from coordinates

Location of record



Taxonomy

[Annotate Taxonomy](#)
Scientific Name *Callocephalon fimbriatum*
Taxon Rank Species

Common Name Gang-gang Cockatoo

Kingdom Animalia

Phylum Chordata

Class Aves

Order Psittaciformes

Family Cacatuidae
 Supplied as: "PSITTACIDAE"

Genus Callocephalon

Species photos and images



Diagnostic photos



200.060

Showing image 200.060

Species Names

[Home](#) : [Explore](#) : *Orthetrum caledonicum* (Brauer, 1865) : Blue Skimmer

Orthetrum caledonicum (Brauer, 1865)

Blue Skimmer

Rank:
Name source:
Data links:

Species:
[Australian Faunal Directory](#) 
[LSID](#) | [JSON](#)

[Animals](#) | [Arthropoda](#) | [Insecta](#) | [Odonata](#) | [Libellulidae](#) | [Orthetrum](#) | *Orthetrum caledonicum*

[Overview](#) | [Gallery](#) | **Names** | [Classification](#) | [Records](#) | [Literature](#)

Accepted Name

Orthetrum caledonicum (Brauer, 1865)

SOURCE: [Australian Faunal Directory](#) 

Synonyms

Libellula caledonica Brauer, 1865 Brauer, 1865

SOURCE: [Australian Faunal Directory](#) 

Orthetrum coeleste (Selys in Hagen, 1849) (Selys, 1849)

SOURCE: [Australian Faunal Directory](#) 

Common Names

Blue Skimmer

SOURCE: [Girraween National Park](#) 

SOURCE: [Australian Insect Common Names](#) 

SOURCE: [Department of Environment, Climate Change and Water](#) 

Blue Skimmer Dragonfly

SOURCE: [Australian Creatures](#) 

Is this a preferred common name for this species? [YES](#) | [NO](#)

Blue Skimmer Dragonfly - [Taxon](#)

Attributed: [Australian Creatures](#) 

Species Classification

Home · Explore · *Eremophila alternifolia* R.Br. · Narrow-leaf fuchsia bush

Eremophila alternifolia R.Br.

Narrow-leaf fuchsia bush

Rank	Species
Name source	Australian Plant Names Index 
Data links	LSID JSON

Plants · Magnoliopsida · Magnoliopsida · Lamiales · Myrsinaceae · *Eremophila* · *Eremophila alternifolia*

[Overview](#) [Gallery](#) [Names](#) [Classification](#) [Records](#)

Scientific Classification

- Kingdom: [Plantae](#)
- phylum: [Magnoliophyta](#)
- class: [Magnoliopsida](#)
- order: [Lamiales](#)
- family: [Myrsinaceae](#)
- genus: [Eremophila](#)
- ➔ species: ***Eremophila alternifolia*: Narrow-leaf fuchsia bush** 
 - variety: [Eremophila alternifolia var. *alternifolia*](#) 
 - variety: [Eremophila alternifolia var. *latifolia*](#) 

Identification Tools



The screenshot shows the IdentifyLife website homepage. At the top, there's a green banner with the "IdentifyLife" logo and a subtext "The beginning of science is to look at life in light of life". Below the banner are three main navigation icons: "Key Central" (with a magnifying glass icon), "My IdentifyLife" (with a globe icon), and "Key to All Life" (with a globe and plant icon). A descriptive text block follows, stating: "IdentifyLife is a global, collaborative project providing ways to identify the world's living organisms. The world is full of a vast array of extraordinary organisms, from the largest trees, mammals and fish to the tiniest diatoms, algae and bacteria. There is an enormous amount of information about these organisms and their lives, habits and characteristics. IdentifyLife is all about bringing people and the information about the world's living creatures together. Welcome to IdentifyLife." Below this text are five thumbnail images showing various biodiversity topics: "How do I identify a bird? (beginner)", "How can I identify a fish? (intermediate)", "How do I identify a plant? (beginner)", "How can I identify a butterfly? (intermediate)", and "How can I contribute to science?". At the bottom of the page, there are links for "IdentifyLife", "Help", "User Profiles", "Join the Science Society", and "About IdentifyLife".



Heritage Literature

The Biodiversity Heritage Library - Australia is the digital literature component of the Atlas of Living Australia. BHL-A also participates in the consortium of Biodiversity Heritage Libraries and affiliated literature digitisation projects around the world.

Search Our Collection 

Browse Our Collection  Title  Author  Map  Year

Featured Books



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[Developers Resources](#)[Licensing & Copyright](#)

Heritage Literature

Records of the Australian Museum

Volume 10 (1860-1861) Download Book

Bibliography My PDF My Paper Added Forum Details

Illustrations of the Diptera insects in the genus *Phytomyza*

Fig. 1. - *P. capricorni*, Wied., from the Maldives. 2.
3. - *P. conica*, Wied., from the Maldives. 2.
4. - *P. crenulata*, Wied., from the Maldives. 2.
5. - *P. disticha*, Wied., from the Maldives. 2.
6. - *P. elongata*, Targ., from the Maldives. 2.
7. - *P. elongata*, var., from the Maldives. 2.

H. M. Morris, A.R.

0 10% + 84 of 650 < >

Data on Biological 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 ALA partners are shown. Over time this list will expand to include all natural history collections in Australia.

[Map](#)
[List](#)

Click a button to only show those organisms.

All collections

Show all 141 collections.



Fauna

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



Insects

Insects, spiders, mites and some other arthropods.



Micro-organisms

Protozoa, bacteria, viruses, microfungi and microalgae.



Plants



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.



Data on Biological Collections



**ATLASofLIVING
AUSTRALIA** sharing biodiversity knowledge

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Search the Atlas

Home Explore Natural History Collections Australian Museum

Australian Museum

Acronym: AM LLSQ



Description

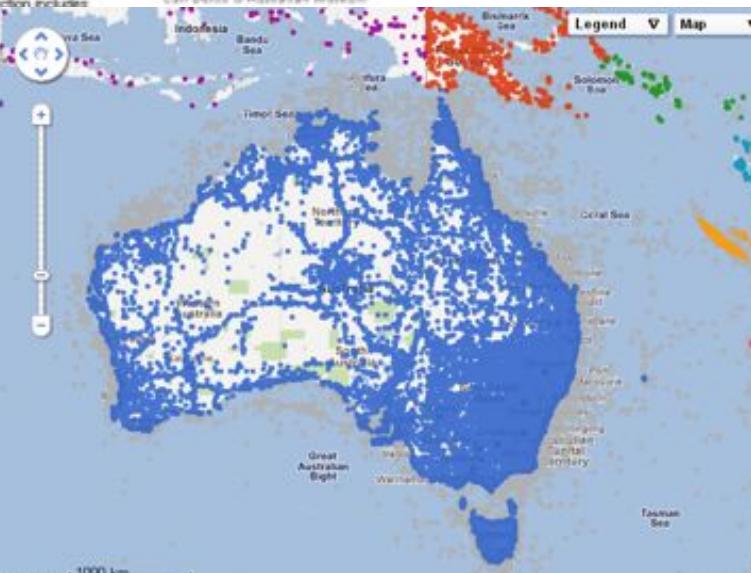
The Australian Museum is making a range of species information and data from its natural history collections available through the Atlas of Living Australia.

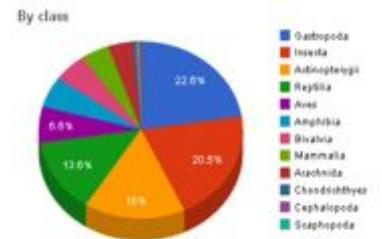
The Australian Museum has worked with Rio Tinto (<http://australianmuseum.net.au/our-corporate-partners>) to develop BioMaps (<http://www.biomeaps.net.au/biomaps2>), a set of tools for accessing, mapping and analysing Australian biodiversity data. The ALA is exploring ways to collaborate with the Australian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

Collections

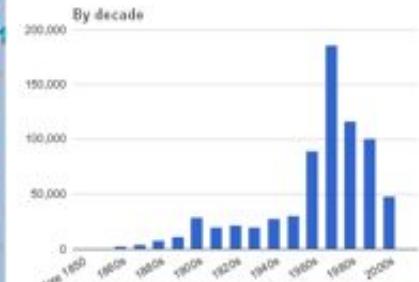
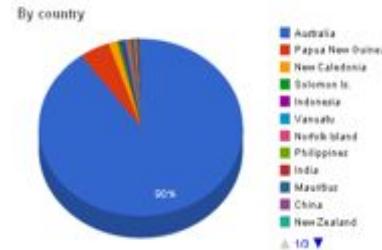
- Australian Museum Arachnology Collection:** The Australian Museum Arachnology collection includes arachnids (spiders and their relatives), myriapods (centipedes and millipedes) and the onychophorans (velvet worms), and landigrades (water bears). The Arachnida represent a large proportion of the collections, at about 95%.
- Australian Museum Entomology Collection:** In the insect (s.l.) collection, there is an emphasis on the South Wales fauna, although there are significant holdings from other states and regions. It has internationally significant holdings of aculeate Diptera, Psocoptera, and Chrysomelidae. Major Australian collections of Neuroptera, Megaloptera, Lepidoptera, and Coleoptera.
- 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 called molluscs. Molluscs include chitons, clams, mussels, snails, nudibranchs (sea slugs), tusk shells and squid.
- Australian Museum Mammalogy Collection:** The Australian Museum Mammalogy collection is one of the most comprehensive collections of Australian 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, *Lanepous* spp. Photo Carl Bentz © Australian Museum 2007
Carl Bentz © Australian Museum

A map of Australia and surrounding regions showing collection locations. The map is color-coded by state or territory. A legend indicates that red areas represent collections from Tasmania, green areas from Victoria, blue areas from New South Wales, and white areas from the Northern Territory. Numerous small dots representing individual collection records are scattered across the map, with a higher density in eastern Australia. The map also labels major bodies of water and some coastal cities.



[View all records](#)



Explore Your Area



ATLAS OF LIVING AUSTRALIA sharing biodiversity knowledge

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Home > Explore > Your Area

Explore Your Area

Enter your location or address

E.g. 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 podalyriifolia</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	1129	36. <i>Acanthiza reguloides</i> (Buff-rumped Thornbill)	1
Fungi	82	37. <i>Acanthopagrus australis</i> (Yellowfin Bream)	1
Chromista	0	38. <i>Acanthophis antarcticus</i> (Common Death Adder)	6
Protozoa	1	39. <i>Acanthopeltis pavia</i>	1
Bacteria	0	40. <i>Acanthorhynchus tenuirostris</i> (Eastern Spinebill)	1



Explore Your Area

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AUSTRALIA
Sharing biodiversity knowledge

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Explore Your Area

Enter your location or address

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

Showing records for: 3 Supplies Crail Dr, Marlborough NSW 2540, Australia

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

Group	Count	Species	Records
All Species	1296	24 Acanthophis antarcticus (Common Death Adder)	3
Animals	981	25 Acanthorhynchus tenuirostris (Eastern Spinetail)	46
Mammals	42	26 Accipiter fasciatus (Brown Goshawk)	3
Birds	225	27 Accipiter novaehollandiae (Grey Goshawk)	3
Reptiles	12	28 Arthroleptis stellatus (Coastal Skink)	1
Amphibians	14	29 Acrobates pygmaeus (Feathertail Glider)	2
Fish	58	30 Acrocephalus australis (Australian Reed-Warbler)	5
Insects	86	31 Acrosticta cygnula	1
Plants	309	32 Acridocarpus semiretusa (Honemato)	2
Fungi	34	33 Actinotus helianthii	3
Chromista	1	34 Actitis macularius (Dune Thistle)	3
Protozoa	0	35 Actitis hypoleucos (Common Sandpiper)	1
Bacteria	0	36 Acanthococcus australis	1
	37 Acanthococcus australis		1

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Regional information

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[Search the Atlas](#) 

[Home](#) > [Explore](#) > [Regions](#)

Select a region to explore

Select a region then explore occurrence records, images and documents associated with that region. [Show me how.](#)

Click on a region name to select an area.

- + States and territories
- + Local Government
- + Biogeographic Regions
- + Marine Regions
- Management Regions

- ACT
- Adelaide and Mount Lofty Ranges
- Albany-Bunbury
- Ashmore and Cartier Islands
- Arafurian
- Border Rivers-Maranoa-Galtonine
- Border Rivers-Gwydir
- Burdekin
- Burnett Mary
- Cape York
- Central West
- Christmas Island
- Cocos Keeling Islands
- Condamine
- Cooperative Management Area
- Corangamite
- Darwin City Catchment

- + Other Regions

Click on the map to select an area.

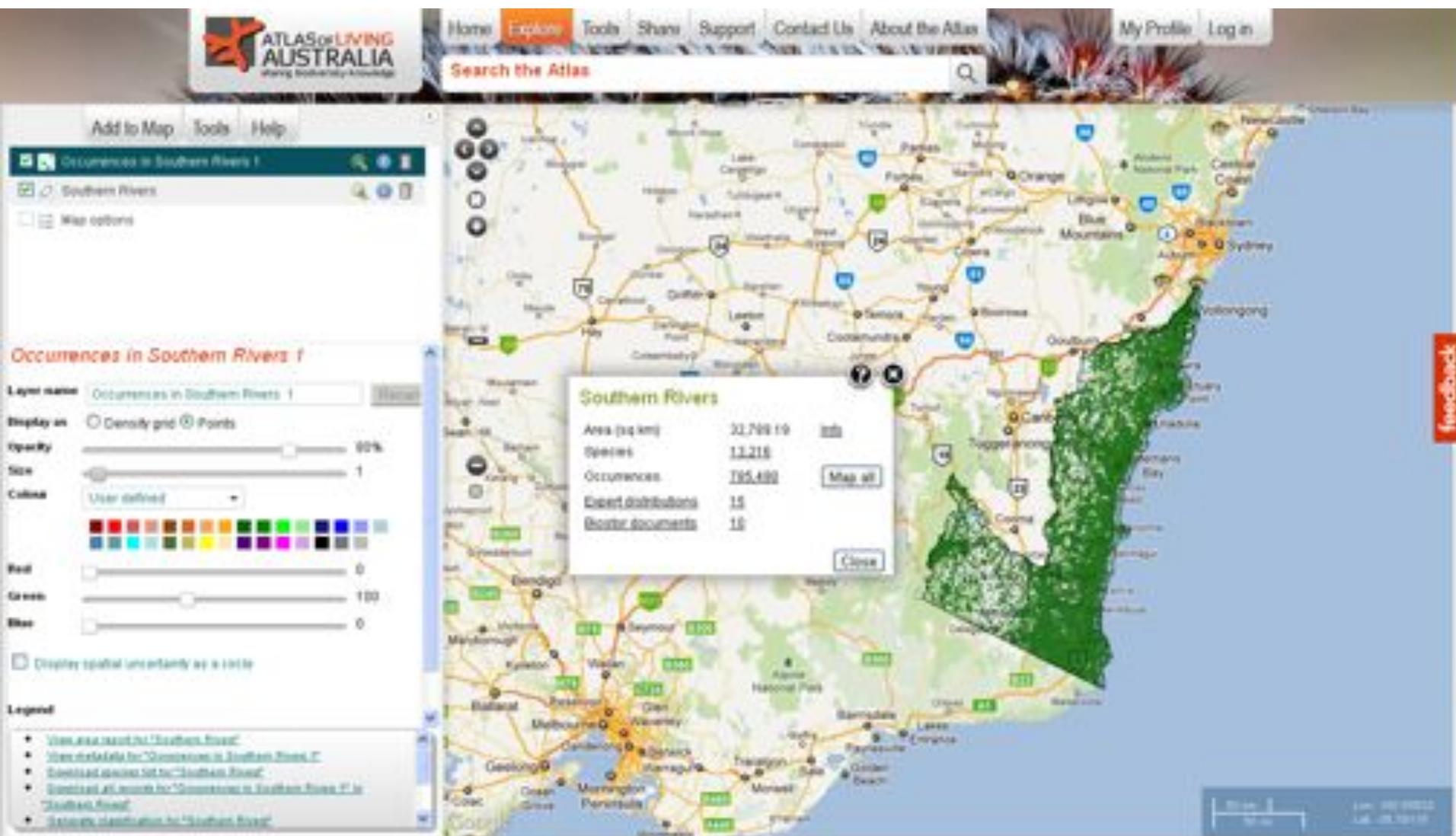
[Reset map](#) 



1000 km

All regions Selected region

Map Regional Information



Spatial Portal

- Integrating extensive biological and environmental data
- 350+ layers for mapping and analysis, including rainfall, temperature, substrate, hydrology, fire, political and vegetation
- A suite of tools that demonstrate the utility of integrated data
- Data upload and download
- Can be accessed through “map species” tab, or from within a species page, or directly at <http://spatial.ala.org.au/>

Spatial Portal

Add to Map Tools Import Export Help

Species Areas Layers

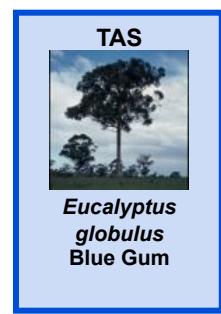
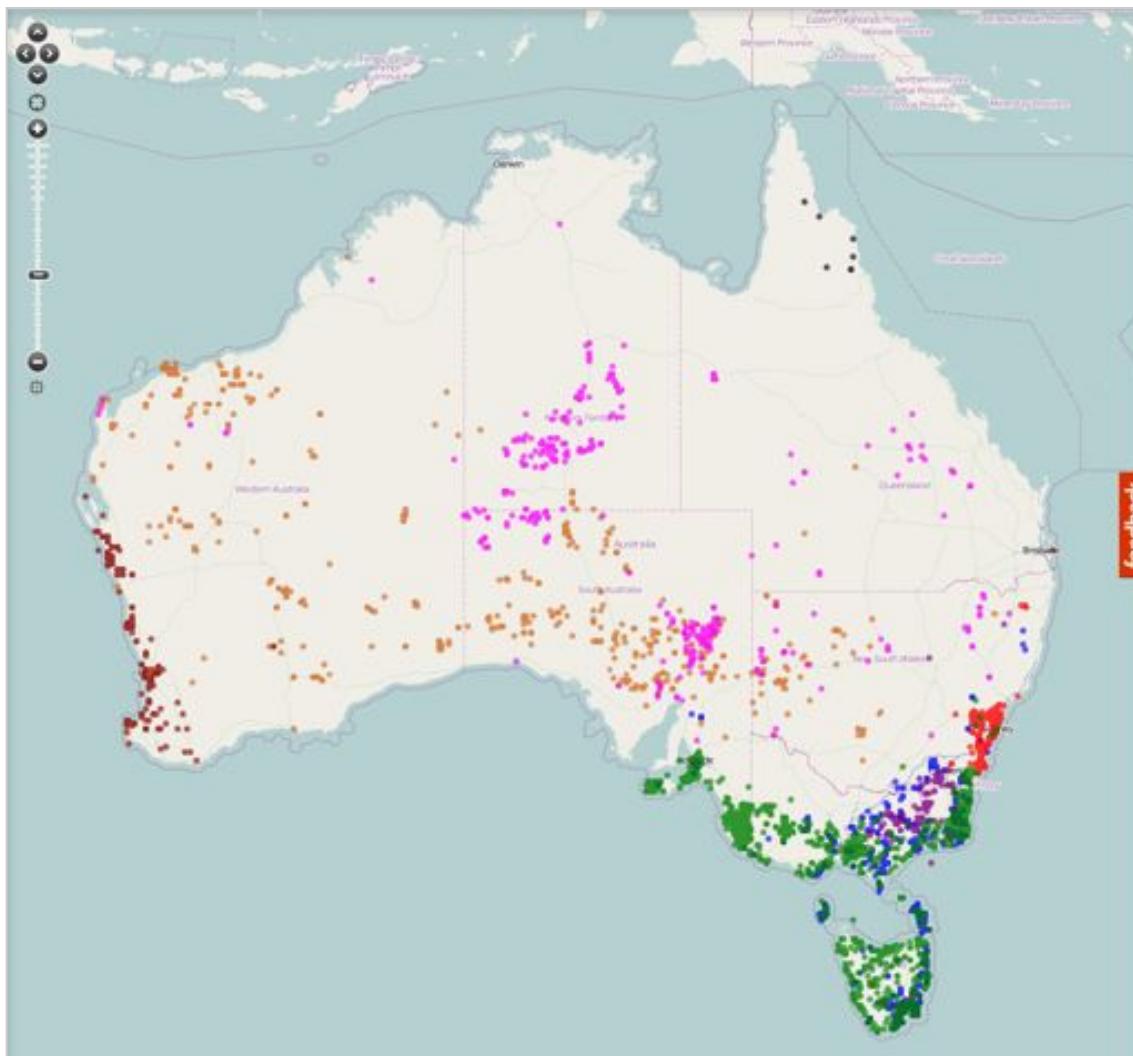
Map options

Base map Outline Minimal Normal Satellite

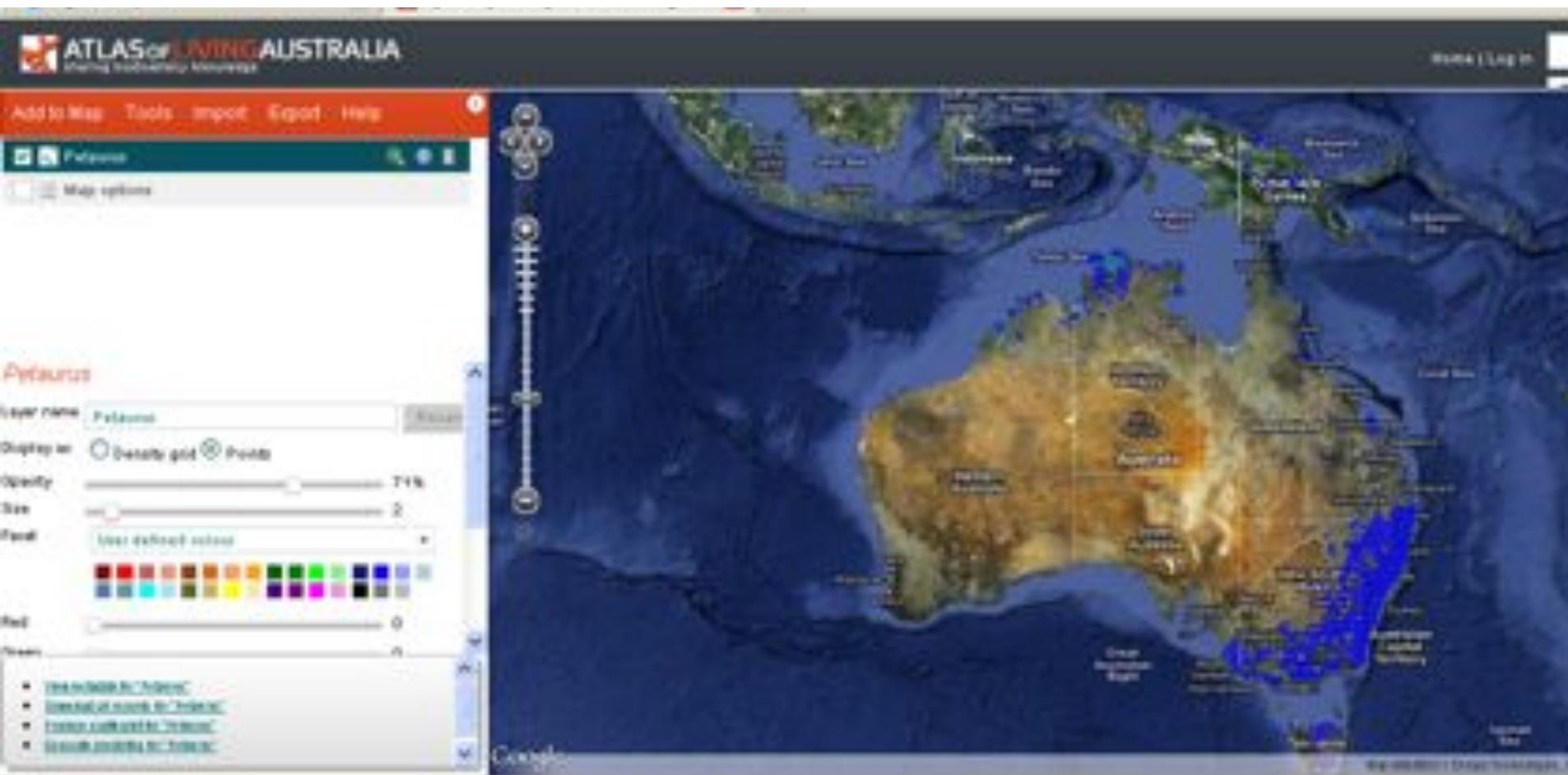
[Download map](#) [Reset map](#)



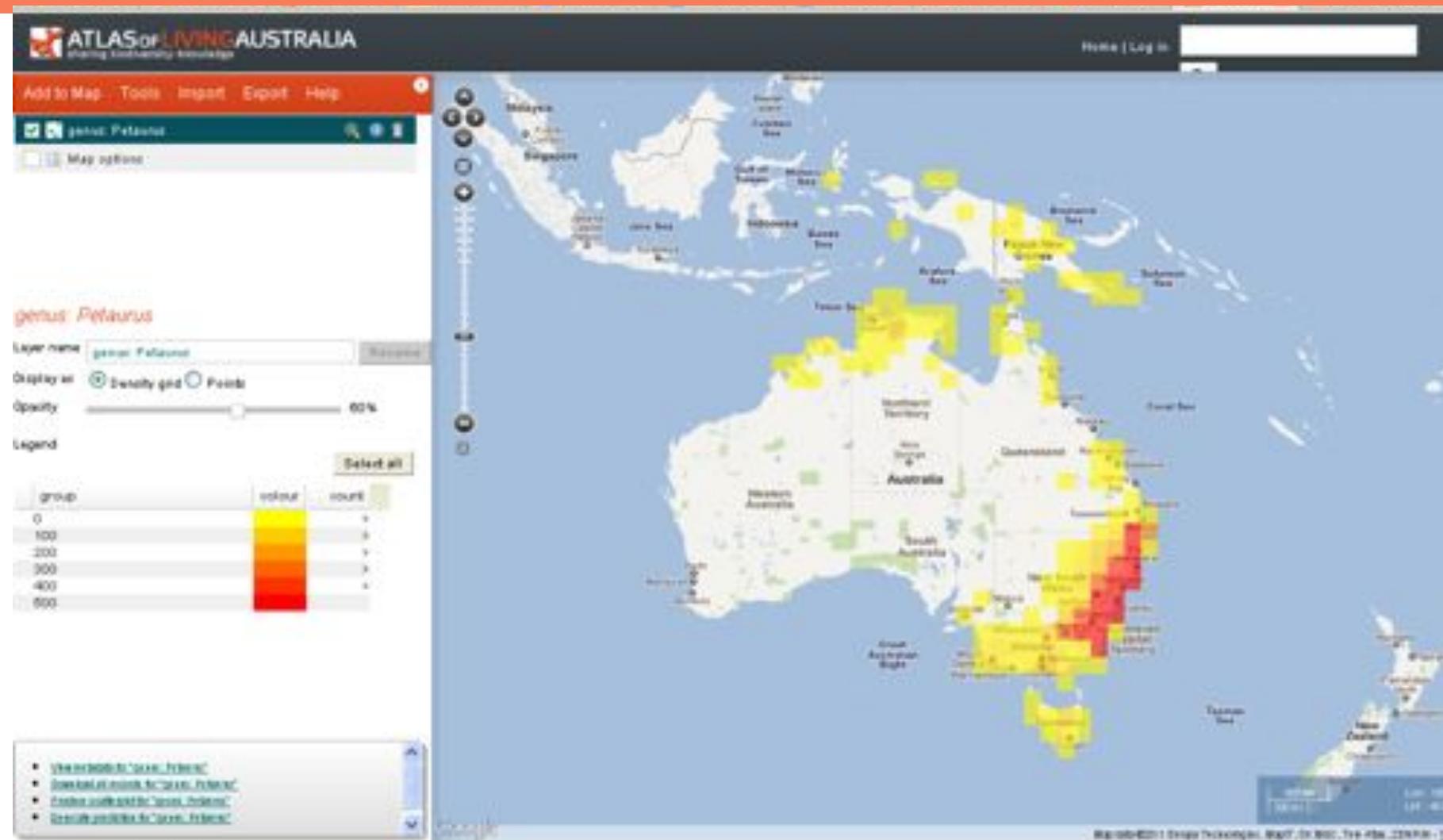
Where is Each Species Found?



Petaurus (4 species of Gliders)



Density Grid of Petaurus distribution



Data: 'Areas'

Add to Map Tools Help

-  Botanic gardens
-  Evaporation - variability
-  IBRA SE Hills
-  IBRA Sub Regions
-  QLD Museum
-  Petaurus
-  Map options

Botanic gardens

Layer name

Opacity

Colour 

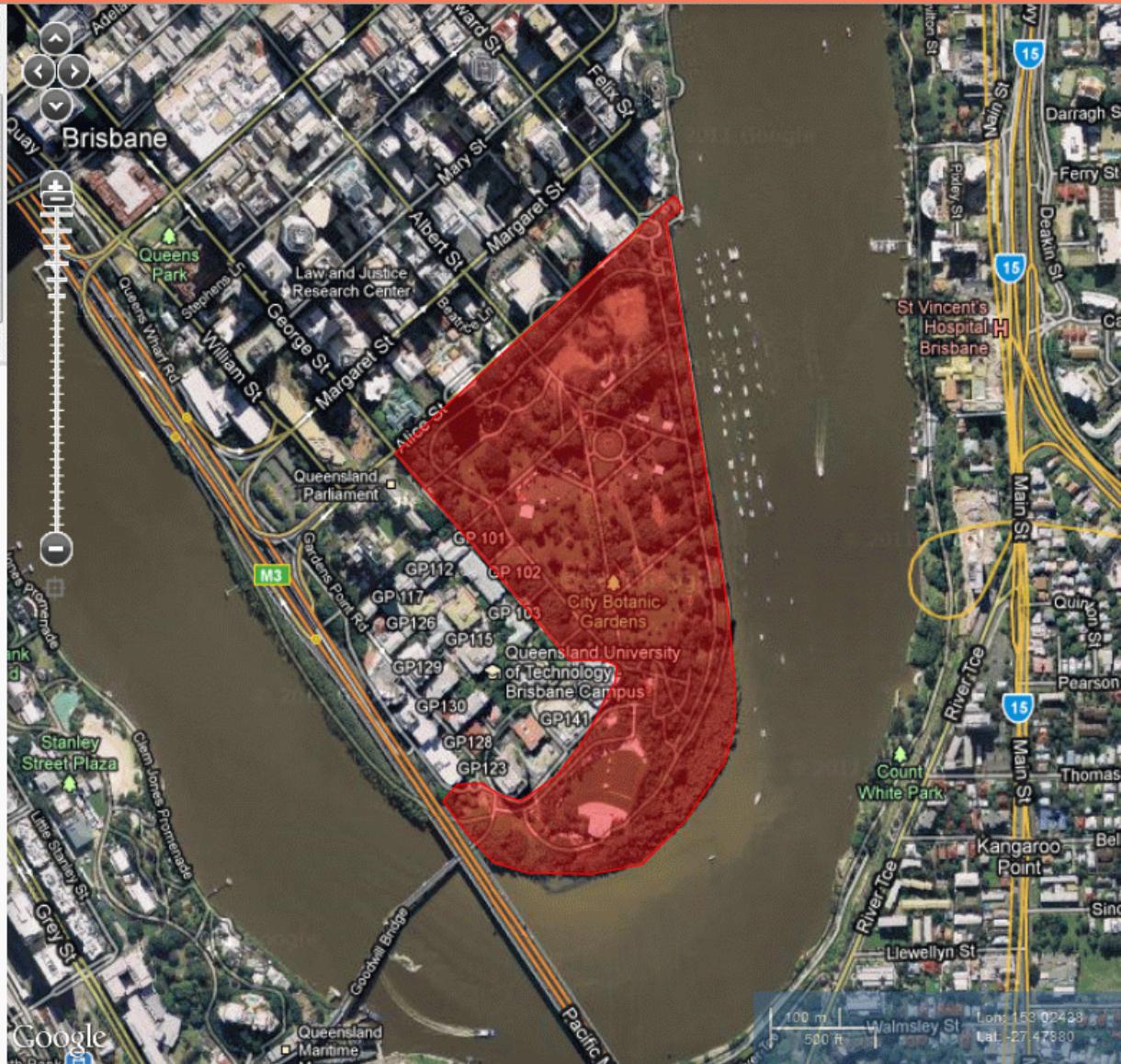
Red

Green

Blue

Legend 

- [View area report for "My Area 2"](#)
- [View metadata for "My Area 2"](#)
- [Download species list for "My Area 2"](#)
- [Download all records for "My Area 2"](#)
- [Generate classification for "My Area 2"](#)



Tools: Checklists

Species List Results Preview

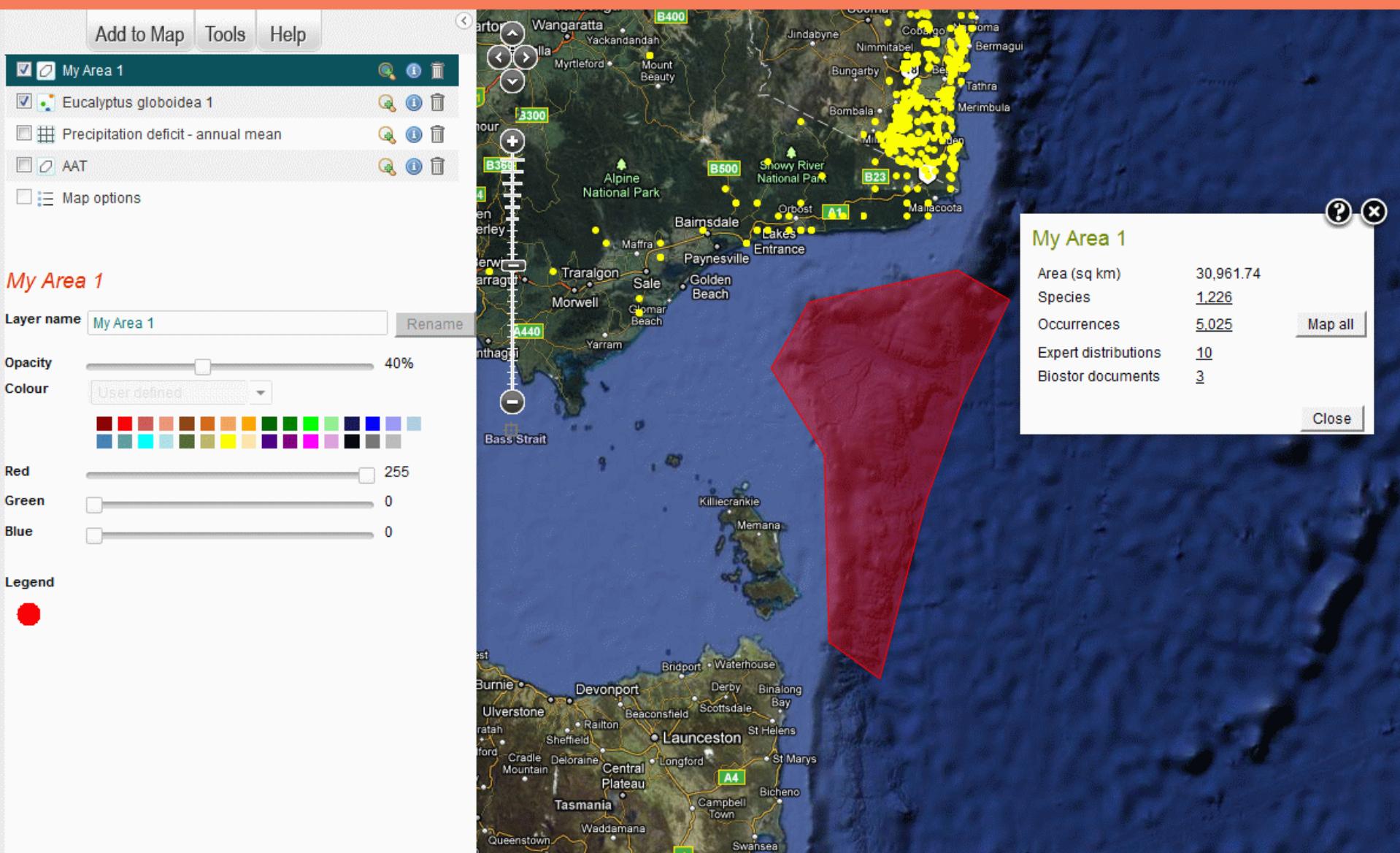
preview of all 72 species found

Family	Scientific name	Common name/s	Taxon rank	LSID	# Occurrences
Acanthizidae	<i>Gerygone levigaster</i>	Mangrove Gerygone	species	urn:lsid:biodiversity.org.au:afd.185e24073-ac91-5738028b1e7a	5
Acanthizidae	<i>Sericornis frontalis</i>	White-browed Scrubwren	species	urn:lsid:biodiversity.org.au:afd.1e984-4a23-9eb8-dc1d9e3a9ade	3
Accipitridae	<i>Elanus axillaris</i>	Black-shouldered Kite	species	urn:lsid:biodiversity.org.au:afd.1db94-4613-8828-f98fafadaa6d	1
Accipitridae	<i>Haliaeetus leucogaster</i>	White-bellied Sea Eagle, White-bellied Sea-Eagle, white-bellied sea-eagle, White-bellied Sea-eagle, White-bellied Sea-eagle; White-bellied Fish-eagle; White-bellied Sea Eagle	species	urn:lsid:biodiversity.org.au:afd.1c606-45d2-aae0-31ad5e7cf7a9	1
Accipitridae	<i>Haliastur indus</i>	Brahminy Kite, Red-backed Kite; Sea Eagle	species	urn:lsid:biodiversity.org.au:afd.1d52f4a10-9dae-2d85b126cc02	3
Accipitridae	<i>Haliastur sphenurus</i>	Whistling Kite	species	urn:lsid:biodiversity.org.au:afd.142a3-a822-828ee76b3335	1
Accipitridae	<i>Pandion cristatus</i>	Eastern Osprey	species	urn:lsid:biodiversity.org.au:afd.1a397-b3ade51d3308	1
Acrocephalidae	<i>Acrocephalus australis</i>	Australian Reed Warbler, Australian Reed-Warbler, Australian Reed-warbler, Australian Reed-warbler	species	urn:lsid:biodiversity.org.au:afd.14da6-bc79-68b778874f53	1

[Download](#)

[Close](#)

Tools: Area Reports



Data: 'Areas'

Add Area

Select method to define area.

Interact with the map

- Draw bounding box
- Draw polygon
- Draw point and radius
- Select area from polygonal layer

Searching

- Radius centered on street address
- Gazetteer polygon

Preset areas

- Box - Australia
- Box - World
- Box - Current View

Upload

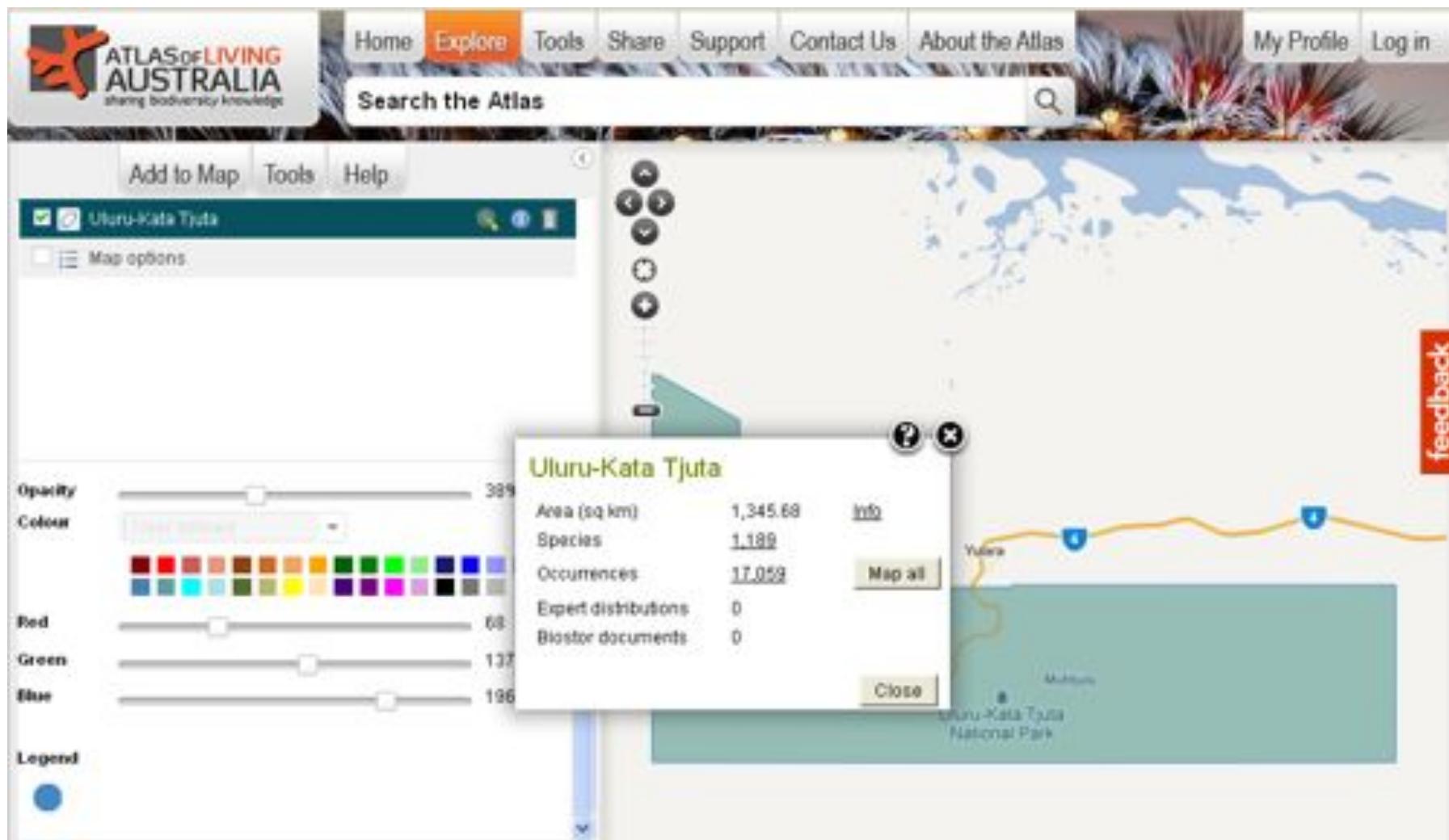
- Upload Shapefile
- Upload KML

Other

- Define environmental envelope
- Paste Well Known Text (WKT)

Cancel Next

Map Species – Define Area

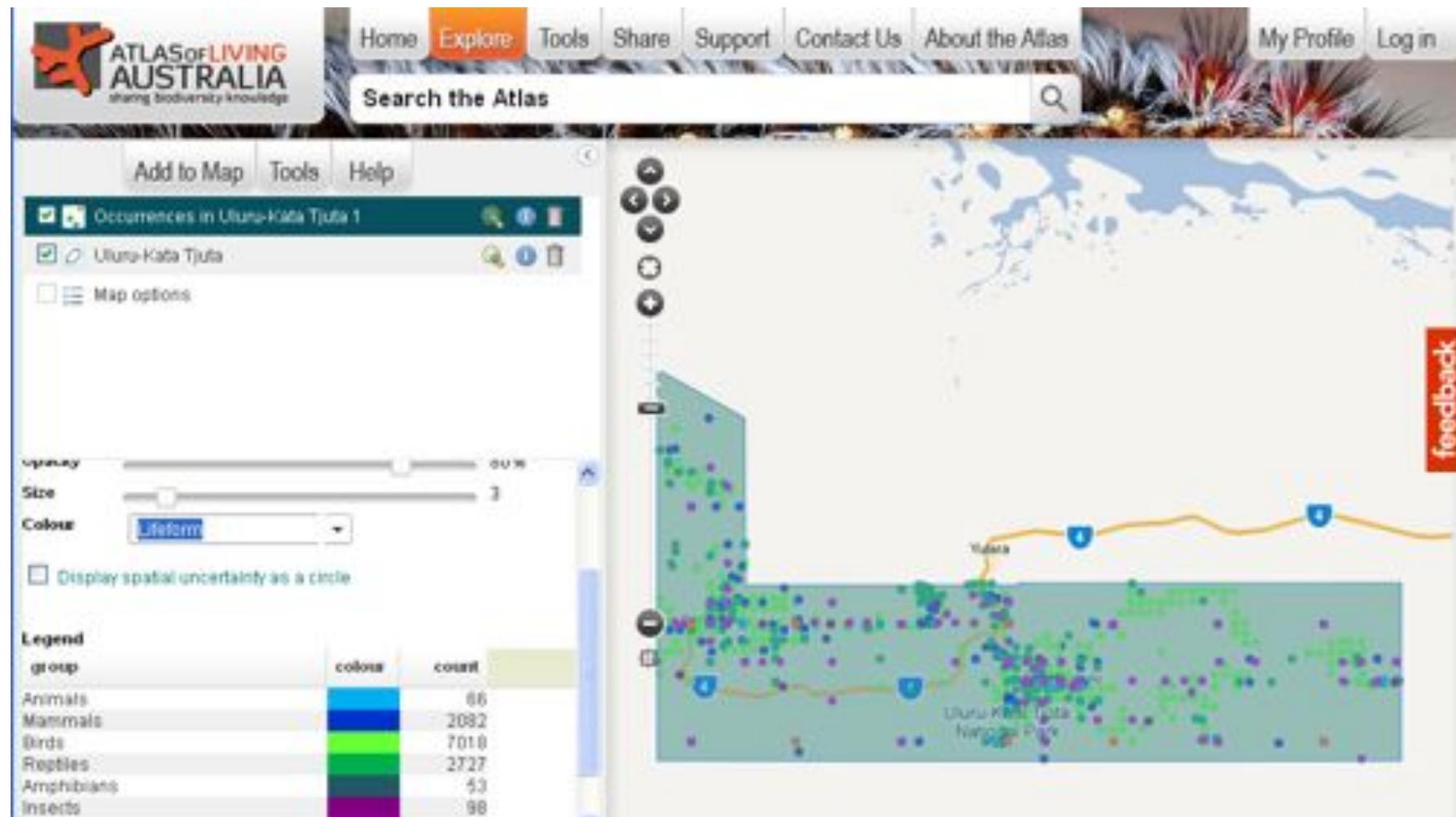


The screenshot shows the 'Explore' section of the Atlas of Living Australia. A search bar at the top contains the text 'Search the Atlas'. Below it, a navigation menu includes 'Home', 'Explore' (which is highlighted in orange), 'Tools', 'Share', 'Support', 'Contact Us', 'About the Atlas', 'My Profile', and 'Log in'. On the left, there's a sidebar with 'Add to Map', 'Tools', and 'Help' buttons, and a checked checkbox for 'Uluru-Kata Tjuta'. A 'Map options' button is also present. The main area features a map of Australia with a detailed view of the Uluru-Kata Tjuta region. A callout box for 'Uluru-Kata Tjuta' provides the following data:

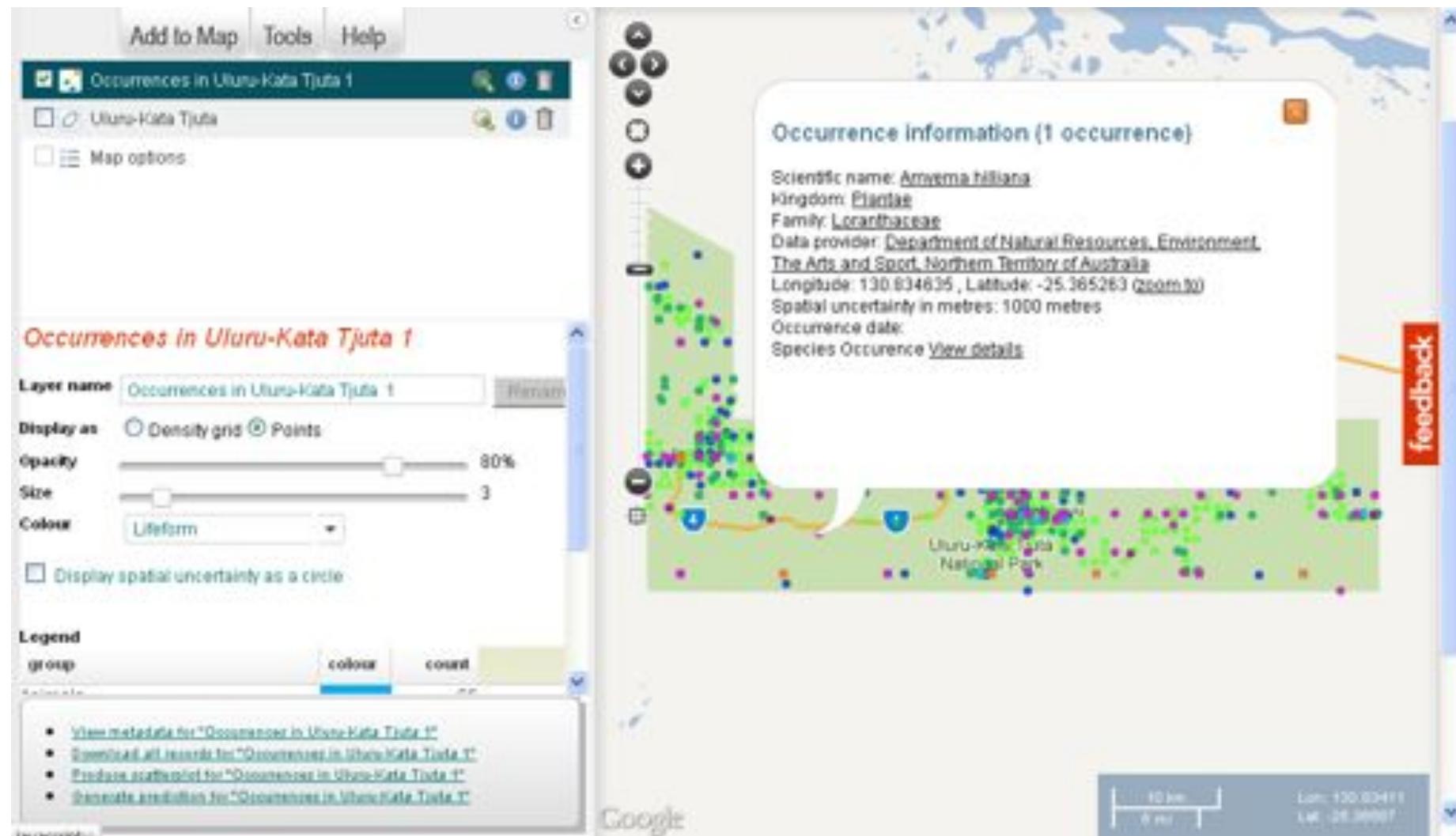
Uluru-Kata Tjuta	
Area (sq km)	1,345.68
Species	1,189
Occurrences	17,059
Expert distributions	0
Biotrop documents	0

Below the map, a green box indicates the location of 'Uluru-Kata Tjuta National Park'. The interface includes a 'feedback' button on the right and a legend at the bottom left.

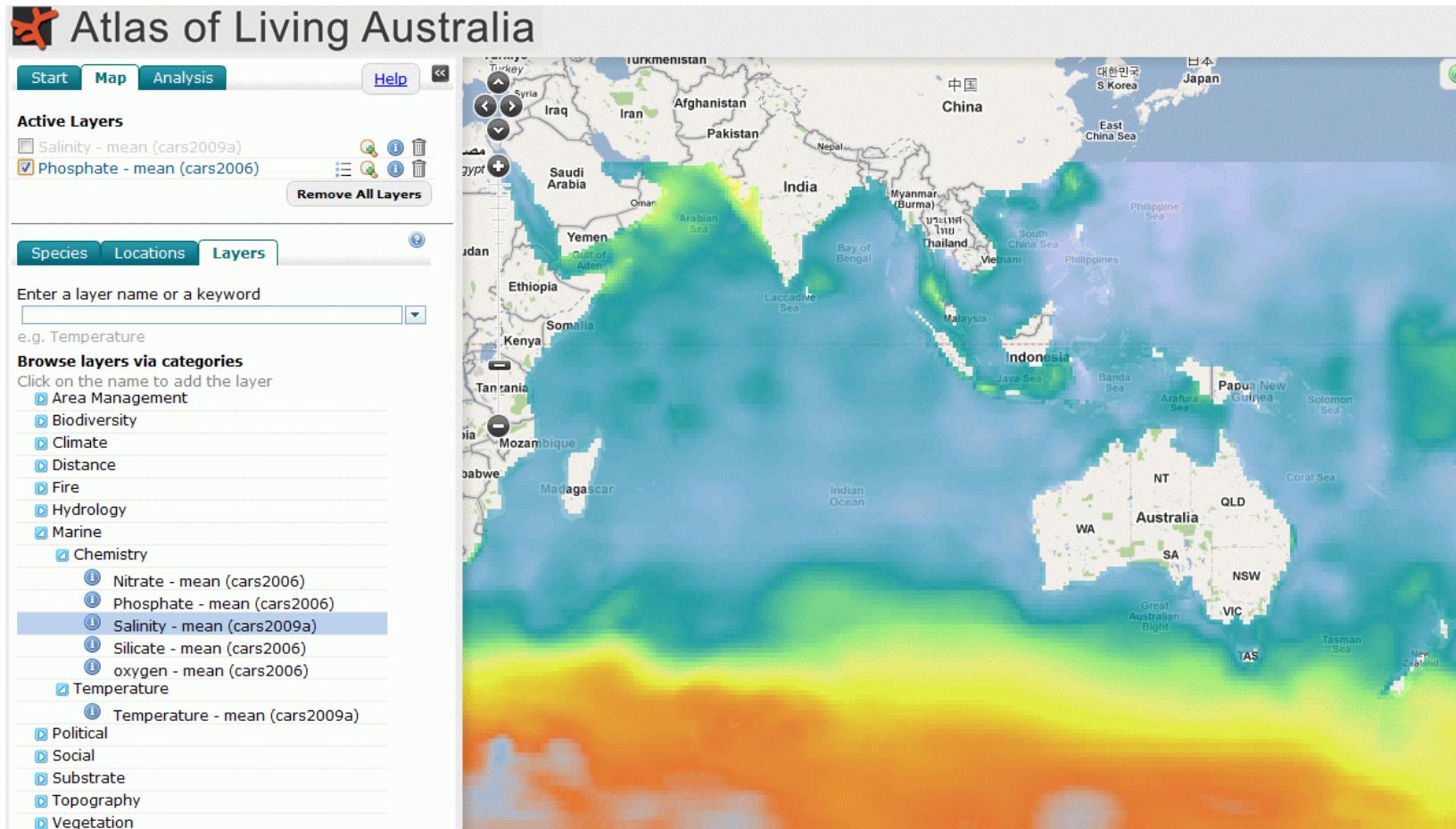
Map Species – All Species



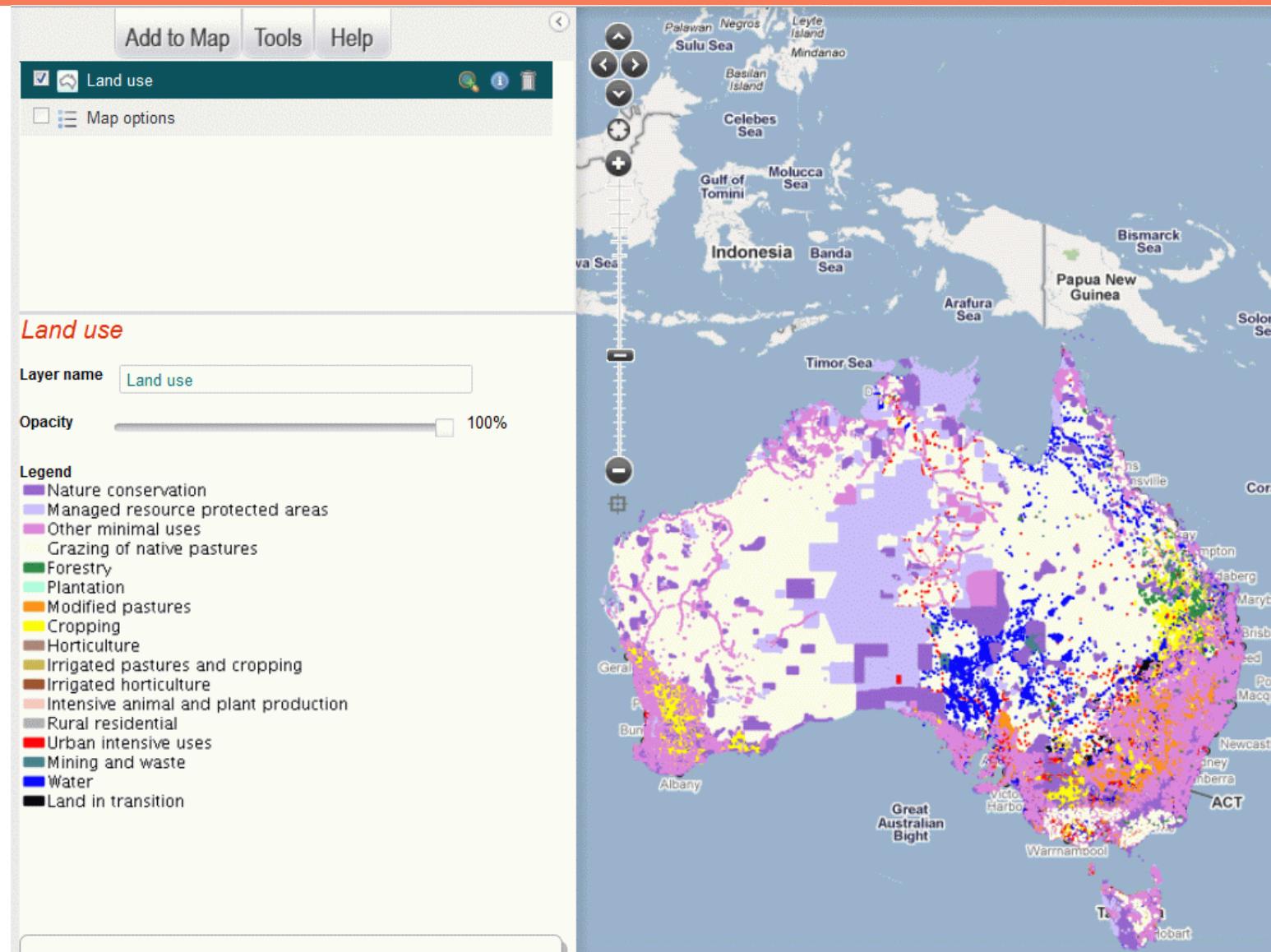
Click to See Occurrence Details



Add environmental layers: over 400 layers, preview @ <http://spatial.ala.org.au/layers>

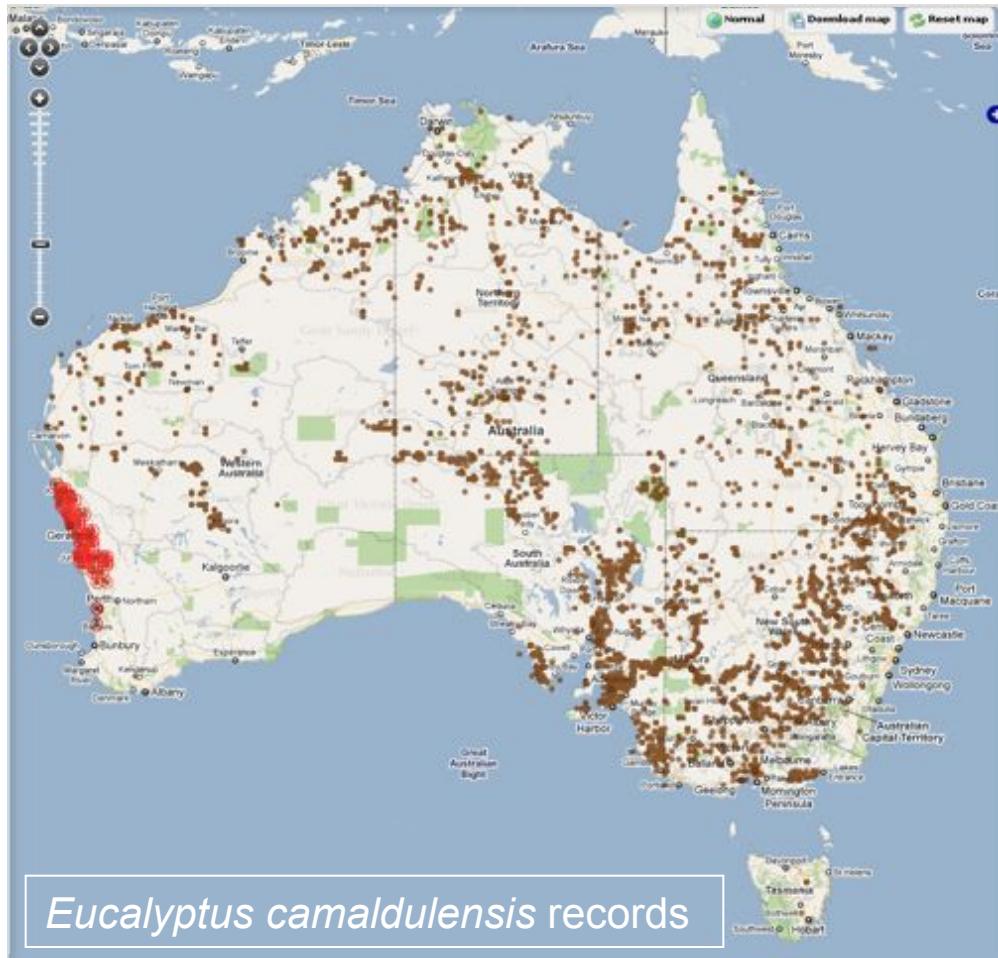


Data: 'Layers'



Tools: Environmental exploration

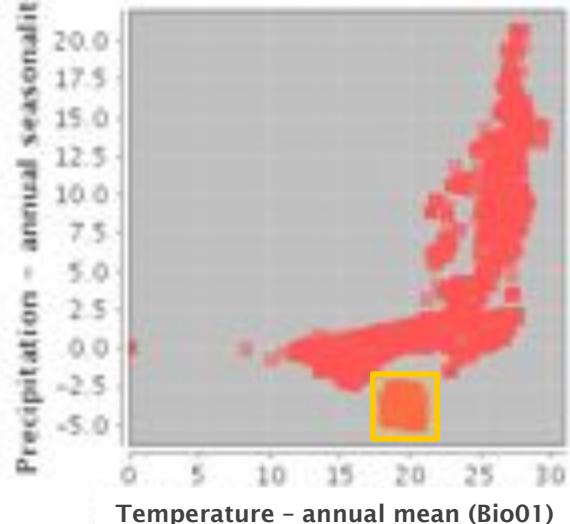
Scatterplots



Map localities onto environmental parameters



Eucalyptus camaldulensis

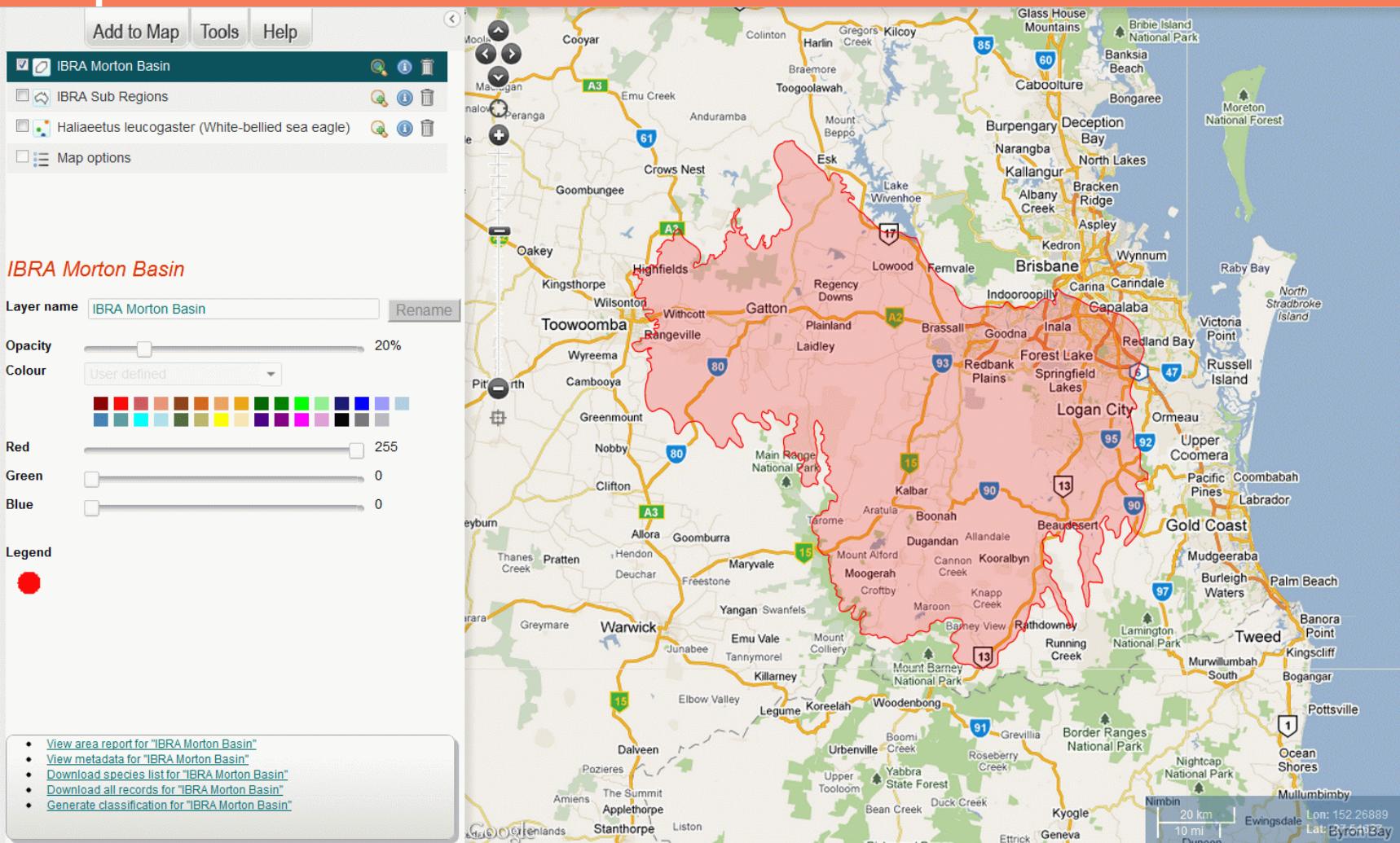


Select records by environmental envelope



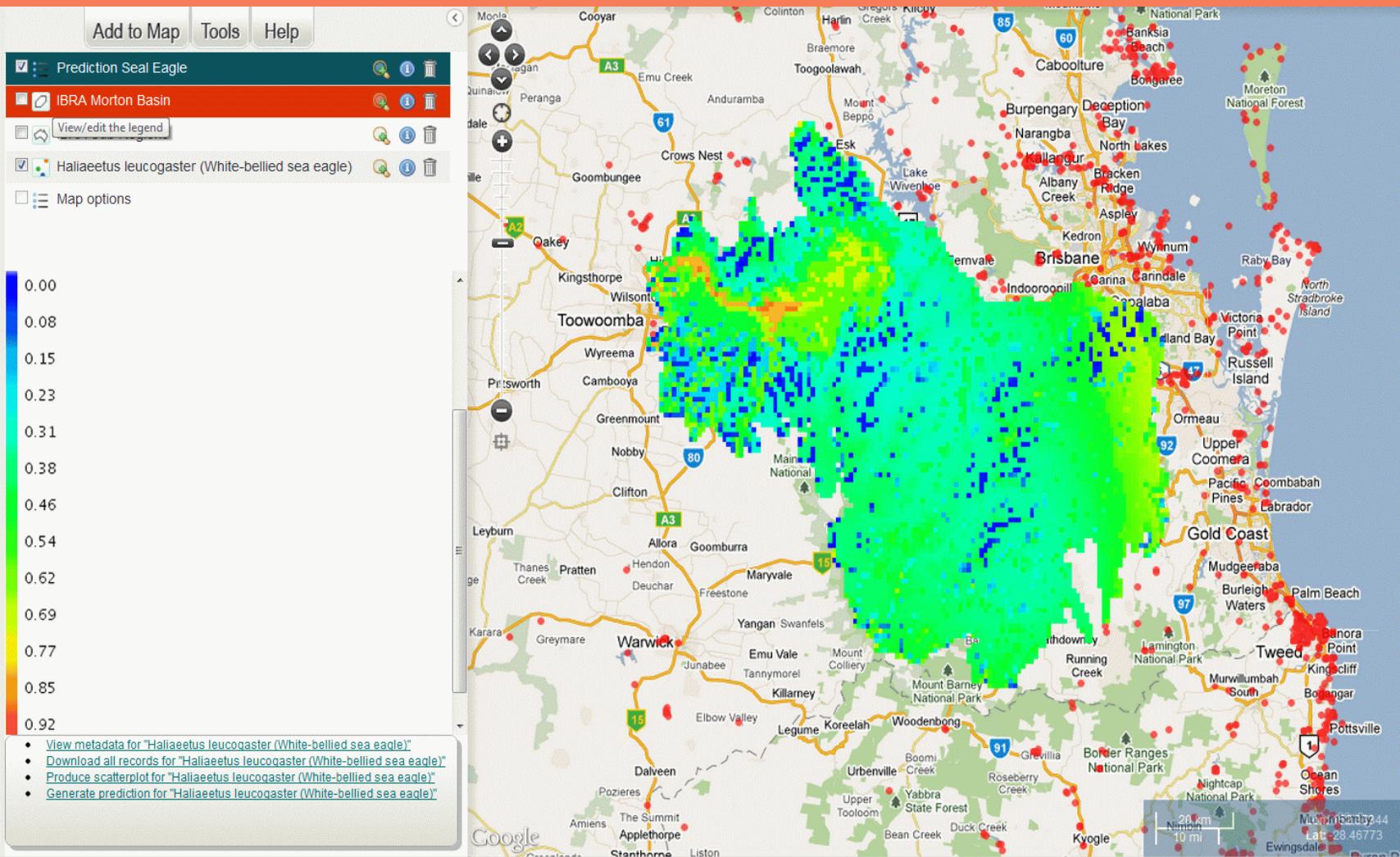
Links Environmental (2 variables) and geographic space

Tools: Prediction: where a species could occur



Uses MaxEnt model. Input: species occurrences and environmental parameters at those locations. Here used Aridity Index (annual mean), Radiation, Dist to water.

Tools: Prediction (niche modeling)



Output: A probability surface map

ALA December 2011

- Has delivered its core infrastructure and a range of powerful new tools.
- New software has been developed for recording and managing biodiversity data and photos in the field.
- ALA is being used in:
 - research projects
 - urban biodiversity surveys
 - museum outreach activities
 - science education
 - biosecurity monitoring
 - and natural resource management and reporting.

Add a Sighting


[Home](#) [Explore](#) [Tools](#) [Share](#) [Support](#) [Contact Us](#) [About the Atlas](#) [My Profile](#) [Log out](#)

Search the Atlas

Logged in as donald.hobson@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: -33.973061

Longitude: 150.874739

Coordinate: 500

Uncertainty in Meters:

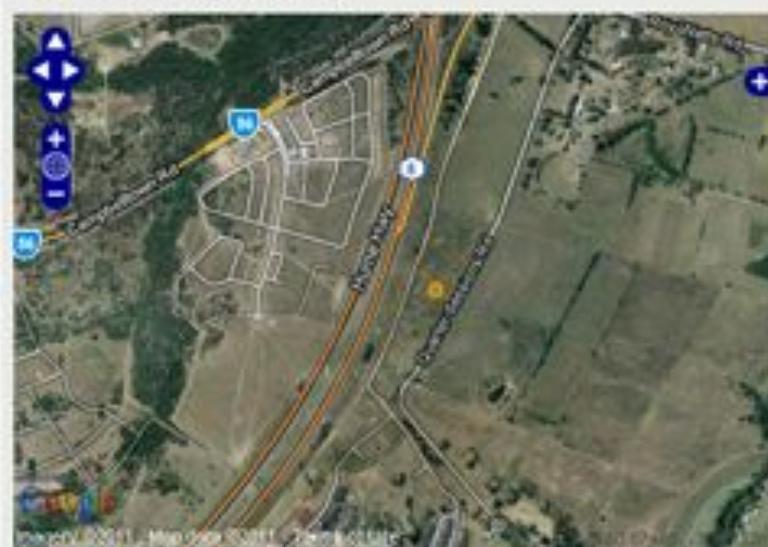
Additional Comments: Hovering and heading south

Media File: Choose File No file chosen Clear

Bookmarked locations:

Hume Highway, near South Western Motorway

Bookmark location Set as default



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

Projects Using ALA Software

- Biodiversity Snapshots – Museum Victoria and Vic Dep’t Education and Early Childhood Development
- Wild Backyards - Queensland Museum
- Birds Australia – Carnaby’s Black Cockatoo Recovery, Bird Atlas, Shorebirds 2020
- ClimateWatch – EarthWatch
- Great Eastern Ranges Initiative
- TeachWild, a nationwide marine debris project. CSIRO, universities, teachers, students and employees from Founding Partners Shell Australia and Earthwatch
- Atlas of Life in the Coastal Wilderness – Merimbula.

Other collaborative sites in development



- Great Eastern Ranges Initiative Southern Highlands Bird Survey Atlas of Living Australia
- Great Eastern Ranges Initiative Thurooona Threatened Species Project (Slopes to Summit) Squirrel Glider (*Petaurus norfolkensis*)
- Great Eastern Ranges Initiative Reptiles and Frogs of the Kosciuszko 2 Coast Region
- Great Eastern Ranges Initiative Birds of the Kosciuszko 2 Coast Region
- Great Eastern Ranges Initiative Plants of the Kosciuszko 2 Coast Region
- Great Eastern Ranges Initiative Hunter Region
- Wolli Creek Preservation Society
- WOMPA
- BIOSpace

Biodiversity Snapshots

MUSEUM VICTORIA

Biodiversity Snapshots

Sign In

Home Sign In Field Guide Education Program About Help

Welcome to Biodiversity Snapshots

Animals, such as mammals, birds and insects live all around us. But have you ever really looked at what's in your local area? And can you identify what you see?

Biodiversity Snapshots will help you to learn more about the animals around us every day by combining mobile technology and science. We provide you with a field guide, identification tool and way to record your observations all on a mobile device – your phone, netbook, or tablet. You make the observations and participate as a citizen scientist.

[Register Now](#)  [Take a tour](#) 

It's easy to participate...

- 1 [Register your school](#)
- 2 [Go outside!](#)
- 3 [Record your observations](#)

Enter class details and create logs for students.

Plan a field trip. Decide where you will look for animals and which animals you want to observe. Generate your mobile survey.

Look around. Be patient. Walk and take quietly. Look up into the trees and down into the leaf litter to find mammals, lizards, birds, butterflies, spiders and bugs.

Use the Field Guide and Help-Me-ID tool to identify the animals you see.

Latest Statistics

Total number of records	863
Number of species recorded	178
Number of species in field guide	650

Last Record

Was created on 08 Nov 2011 by Ecoline and was a *Caddisfly (Lepidoptera)* in the group Freshwater Invertebrates.



MUSEUM VICTORIA MELBOURNE MUSEUM SCIENCEWORKS IMMIGRATION MUSEUM ROYAL EXHIBITION BUILDING

MUSEUM VICTORIA

Home Visiting Collections & Research Education Discovery Centre About Us

Discovery Programs

For Teachers

Biodiversity Snapshots

Students will obtain first-hand experience of current environmental survey techniques and can prepare a report on their findings for the ResourceSmart Australian Sustainable Schools Initiative Victoria (AuSSI Vic) Biodiversity module, community wildlife projects and/or for a national biodiversity database. Surveys can be carried out in all regions of Victoria, focusing on school grounds or backyards, urban parks, bushland or coastal environments.

Biodiversity Snapshots is suitable for students in Years 3-10 investigating Biodiversity as part of Science or Integrated Mathematics, ICT and environmental science study.

Resource	Year Level	PDF Link
Primary education kit	3-6	PDF
Secondary education kit	7-10	PDF
Presentation tools		
Documentary making	3-10	PDF

[Get ADDON READER](#)

RELATED RESOURCES

- Education Kits
- WILD - Primary
- WILD - Secondary
- Minibeasts
- Insects and Spiders
- Education Programs
- Biodiversity Snapshots

Websites

- Biodiversity Snapshots
- Forest Secrets
- Bugs
- Victorian Spiders
- Climate Watch
- ResourceSmart AuSSI Vic
- LandTeam

RELATED EVENTS

Exhibitions

- WILD
- Bugs Ahoy!
- Forest Secrets

Citizen Science – Birds Australia



Birds Australia
CONSERVATION THROUGH KNOWLEDGE

search...

Home About BA Conservation Birds Media Publications Resources Support BA Contact Us

CALLING ALL CITIZEN SCIENTISTS

Contribute to conservation at Birds Australia's CITIZEN SCIENCE PORTAL

2011 Best Photo Competition
Are you Australia's best amateur bird photographer? Enter our competition and be in the running to win fabulous prizes.
[Read more...](#)

MERGER: Members Vote Yes
On 21 May the members of Birds Australia and Bird Observation & Conservation Australia took the historic decision to merge to form BirdLife Australia. [Read more...](#)

Latest news

- > Clive Minton wins prestigious Eisenmann Medal
02 Oct 2011
- > New Action Plan for Australian Birds
30 Sep 2011
- > 2011 Photo Competition
31 Aug 2011
- > National Protection for National Parks
28 July 2011

What's on...
Check out our Events Calendar

Where we work
Click on the map to see what we are doing for birds around Australia

Get involved!

- Become a member
- Volunteer
- Make a donation
- Renew your membership
- Give a gift membership
- Leave a bequest

Subscribe to e-News

EagleCAM >>

CITIZEN SCIENCE PORTAL

Birds Australia is the Australian partner of BirdLife International

Birds Australia
CONSERVATION THROUGH KNOWLEDGE

Home Sign In Review About Help

Welcome to Birds Australia's Citizen Science Portal

Sign In

This site is the Citizen Science Portal for [Birds Australia](#), where you can contribute your observations of native birds to a number of the Birds Australia projects that are using this site.

Initially this site was developed to support the Carnaby's Black-Cockatoo Tracker project, and the people who were recording on the old site can still record their information here, where the data will help inform the broader Birds Australia [Carnaby's Black-Cockatoo Recovery Project](#).

Since the project began, the team behind this site — from the [Atlas of Living Australia](#) — have been working with Birds Australia to add additional functionality and projects to this site. The various projects involved in the site will include nesting, roosting and general sighting forms that will enable community members to directly enter information into this online database and see their records build over time.

Supported By

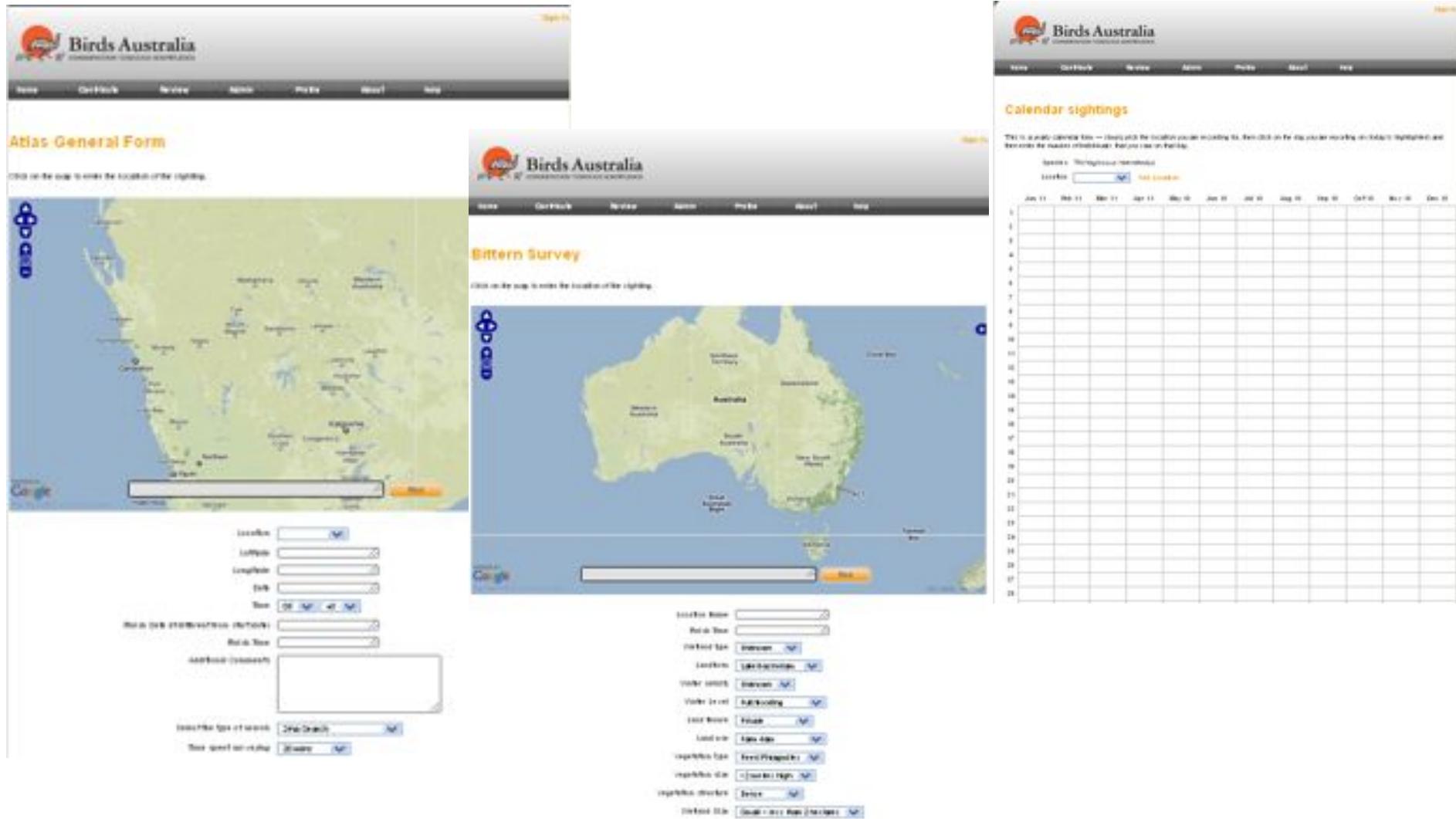
Latest Statistics

Number of users	1415
Total number of records	5209
Number of species recorded	4

The last sighting was a [Calyptorhynchus latirostris](#) in the group [Birds](#).

If you have sightings of other birds, you have several options:

Online Survey Forms



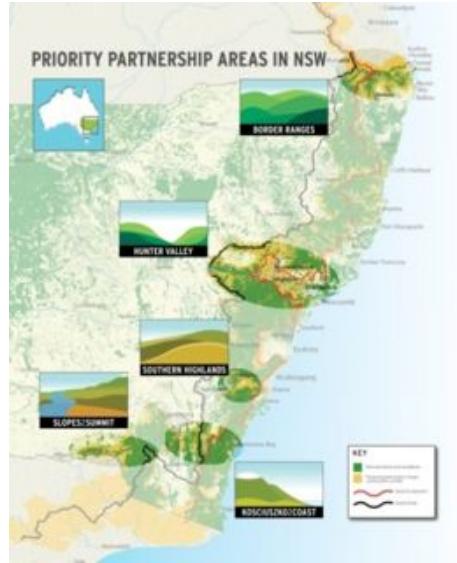
The image displays three screenshots of Birds Australia online survey forms:

- Atlas General Form:** Shows a map of Australia with a location marker. Below the map are fields for Location, Latitude, Longitude, Date, Time, and various bird survey methods like Water Survey, Bush Survey, and Forest Survey.
- Bittern Survey:** Shows a similar map of Australia with a location marker. Below the map are fields for Location Name, Bird Name, Water Survey, Bush Survey, Forest Survey, and specific bittern survey details like Water Level, Land Cover, and Nest Status.
- Calendar sightings:** A grid calendar for the year 2011. It includes a legend for 'Recent sightings' and 'Historical sightings'. The grid shows the number of sightings per day for each month.

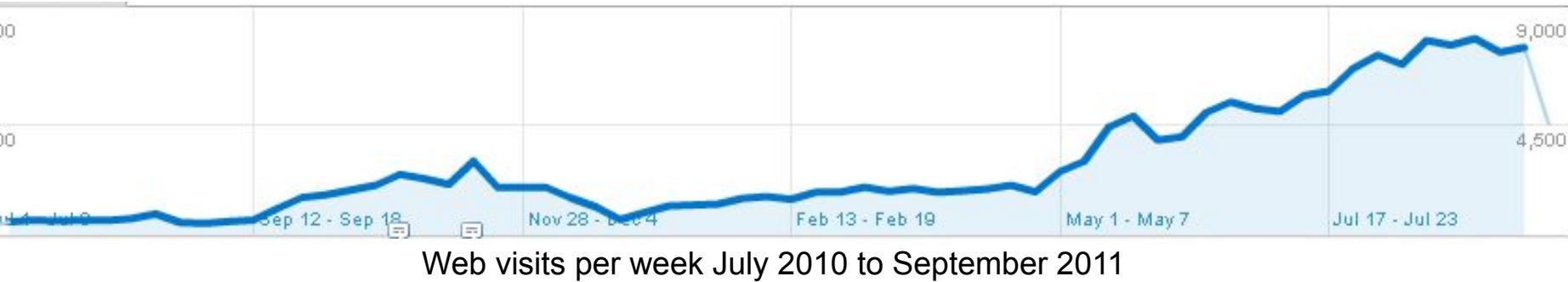
Tools: Web Services

A	B	C	D	E	F	G	
ID	Name	Type (e.g. Mapping, Species, etc)	Description	Example of Use	Source Code Location Link	Contact	
1	WS001	Autocomplete	JSON Web Service that returns a list of species/common names	Used to provide a list of scientific and common names that can be used to automatically complete a supplied partial name.	http://bie.ala.org.au/search/auto.json?q=Macropus%20ru&limit=5 http://bie.ala.org.au/search/auto.json?q=Red	http://code.google.com/p/ala-bie/source/browse/trunk/bie-webapp/src/main/java/org/ala/web/SearchController.java	Natasha Carter
2	WS002	Search	JSON & XML Web Services	Full text search on all Text	http://bie.ala.org.au/search.json?q=red+kangaroo http://bie.ala.org.au/search.json?q=red%20kangaroo&fq=australian%20species:recorded	http://code.google.com/p/ala-bie/source/browse/trunk/bie-webapp/src/main/java/org/ala/web/SearchController.java#185	Wai Man Mok
3	WS003	Species Page	JSON and JSONP (supports "callback" parameter)	Provides all available data for a given taxon concept. URI path must contain a valid identifier (usually an LSID).	http://bie.ala.org.au/species/urn:lsid:biodiversity.org.au:afd.taxon:aa745ff0-c776-4d0e-851d-369ba0e6f537.json http://bie.ala.org.au/species/urn:lsid:biodiversity.org.au:afd.taxon:aa745ff0-c776-4d0e-851d-369ba0e6f537.json?callback=123ABC	http://code.google.com/p/ala-bie/source/browse/trunk/bie-hbase/src/main/java/org/ala/dto/ExtendedTaxonConceptDTO.java	Nick dos Remedios
4	WS004	Species List for Region	JSON Web Service	Gives a list of species for a given region for a specific taxonomic group. Example groups: Birds, Frogs, Reptiles, Flowering Plants, Arthropods.	http://bie.ala.org.au/regions/taxa.json?regionType=state&regionName=Australia%20Capital%20Territory&higherTaxon=Aves&rank=class&withImages=true&start=1&limit=100		Dave Martin
5	WS005	Species Record near a point (INTERNAL USE ONLY)	JSON	Gives a list of species with a count of occurrences for a given latitude/longitude, restrict to a given taxon rank (para: and given value of rank and taxa), and radius (in km) area (circle shape). Radius is 5km.	http://biocache.ala.org.au/explore/species.json?latitude=-35.2832958&longitude=149.21678&radius=5.0&taxa=Aves&rank=class		Nick dos Remedios
6	Spatial Portal Services						
7	WS006	List Layers	JSON and XML	Lists layers for the ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/	http://spatial.ala.org.au/gazetteer/	Angus Macaulay
8	WS007	Show Layer Details	JSON and XML	Shows the layer details for the ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/state	http://spatial.ala.org.au/gazetteer/{layerName}	Angus Macaulay
9	WS008	List Layer Features	JSON and XML	Lists of layer entries for the ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/ibra/features	http://spatial.ala.org.au/gazetteer/{layerName}/features/{n}	Angus Macaulay
10	WS009	Show Layer Features	JSON and XML	The layer and ID that the feature belongs to for the ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/ibra/Australian Alps/ACT.json	http://spatial.ala.org.au/gazetteer/{layerName}/{fid}.json	Angus Macaulay
11	WS0010	Term Search	XML	The string(s) to search for (case insensitive, spaces represented using the character) - ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/search?q=Quenbeyan	http://spatial.ala.org.au/gazetteer/search?q={search term}	Angus Macaulay
12	WS0011	Point Search	XML	List of regions (IBRA, IMCRA, States and Territories, LGAs, ?) giving the latitude and longitude of the point (using decimal notation) that the point falls in to - ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/search?lon=148.866&lat=-36.170 or http://spatial.ala.org.au/gazetteer/latlon/-36.170,148.866	http://spatial.ala.org.au/gazetteer/search?lon={lon}&lat={lat} Alternate cacheable URL: http://spatial.ala.org.au/gazetteer/{layerName}/{lat},{lon}	Angus Macaulay
13	WS0012	Point Search + Radius	XML	List of regions (IBRA, IMCRA, States and Territories, LGAs, ?) giving the latitude and longitude of the point (using decimal notation) and radius of the point (in Kilometres) that the point falls in to - ALA Gazetteer Services	http://spatial.ala.org.au/gazetteer/search?lon=148.866&lat=-36.170&radius=30	http://spatial.ala.org.au/gazetteer/search?lon={lon}&lat={lat}&radius={radius}	Angus Macaulay
14	WS0013	Closest Feature Search	XML	The closest feature search returns the closest feature provided a point (Latitude/Longitude) and a radius. An optional count can be	http://spatial.ala.org.au/gazetteer/search?closestFeature=true&radius=50&lat=32.2622&lon=138.7476&layer=qaqaz	http://spatial.ala.org.au/gazetteer/search?closestFeature=true&lat={lat}&lon={lon}&radius={radius}&count={count}	Angus Macaulay

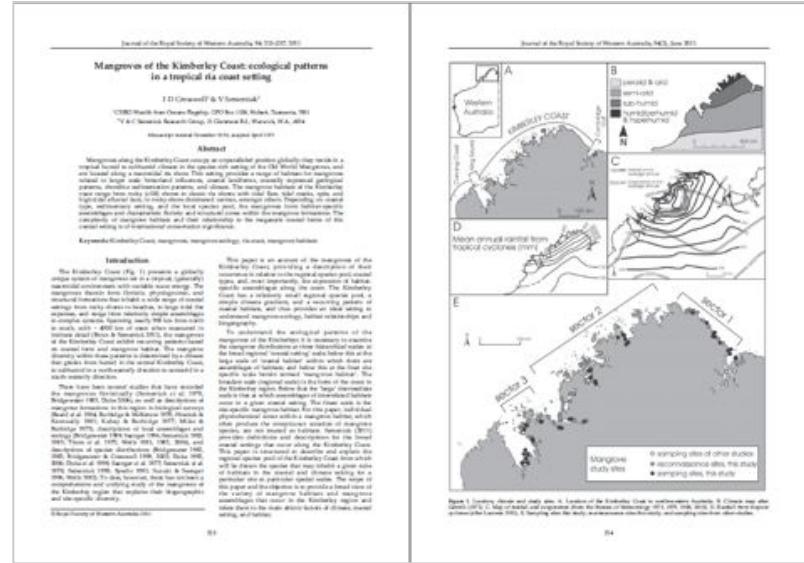
Adoption of ALA by users



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 coast setting - paper referencing data accessed through ALA



The Atlas of Living Australia Team – or some of it...

www.ala.org.au



ShapeCollage.com



An Australian Government Initiative
National Collaborative Research
Infrastructure Strategy