



 **ATLAS of LIVING AUSTRALIA**
sharing biodiversity knowledge

Atlas Gaps and Horizon

Lee Belbin

Stakeholder Report

Idea Themes

Using a design approach, the workshop participants worked in groups to identify themes that help address the challenges and opportunities. These were further divided into 3 broad categories:

1 Better Operation

1.1 Quality

1.2 Identify and Close Gaps

1.3 User and Usage Insights

2 Strategic approach

2.1 Business model, funding and operations

2.2 Connectivity

2.3 Policy Framework and insights

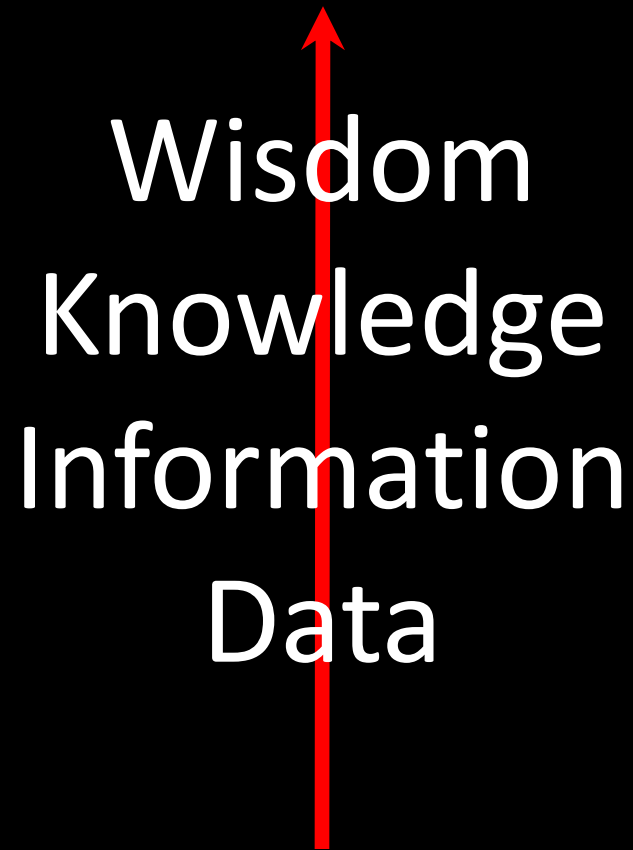
2.4 Taxonomy Australia

3 Extending impact

3.1 New users

3.2 Citizen Science

3.3 Mobile Tools



Names without NSL matches

ATLAS OF LIVING AUSTRALIA
sharing biodiversity knowledge

Species Locations Collections Mapping & analysis Data sets Blogs Get involved About

Home → Search the Atlas

Search for **Temnosewellia** did not match any documents


WIKISPICES
free species directory

Page Discussion

Temnosewellia

Taxonavigation [edit]


Taxonavigation: **Temnocephaloidea** [Expand]

Familia: Temnocephalidae
Genus: **Temnosewellia**
Species: *T. vietnamensis* ...

Name [edit]

Main page
Community portal
Templates
Recent changes
Random page
Help
Donate

Tools
What links here

 **GBIF.ORG**
Free and open access to biodiversity data

Data News Community


Search species

Temnosewellia

59 results for "Temnosewellia"

ACCEPTED GENUS
Temnosewellia Damborenea & Cannon, 2001

Animalia > Platyhelminthes > Neophora > Temnocephalida > Temnocephalidae

 **EOL**
Encyclopedia of Life

Search EOL

Become part of the EOL community
Join EOL
Already a member? Log in

Temnosewellia

learn more about names for this taxon

You've arrived here by searching for Temnosewellia. Click here to see other search results.

Overview Detail Data 2 Media 0 Maps Names Community Resources Literature Updates

EOL has no trait data

No one has contributed data records for Temnosewellia yet. [Learn how to contribute.](#)

Found in 3 classifications see all

Genus recognized by NCBI Taxonomy

- Cellular organisms
- Eukaryota
- Opisthokonta
- Metazoa
- Eumetazoa
- Platyhelminthes
- Platyhelminthes
- Temnocephala
- Temnocephala
- Temnosewellia
- Temnosewellia minor
- Temnosewellia

IUCN threat status: Not evaluated

Species Without Occurrences

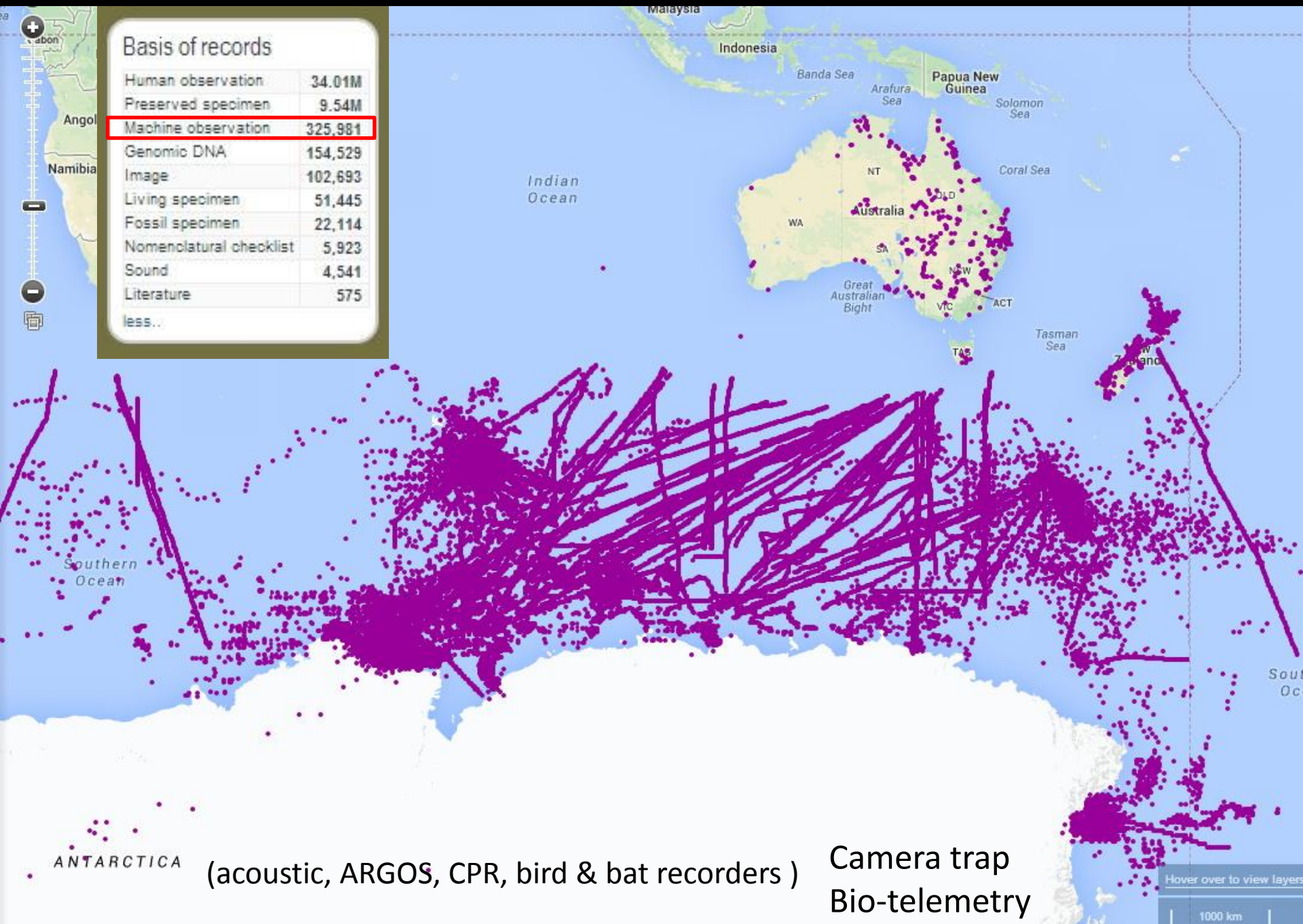
A screenshot of a table titled "National Species Lists" with four rows of data. The table is enclosed in a light green border.

National Species Lists	
Accepted names	195,424
Synonyms	146,974
Species names	152,080
Species with records	111,566

[http://bie.ala.org.au/ws/download?q=*&fields=scientificName,occurrenceCount&fq=-occurrenceCount:\[*%20TO%20*\]](http://bie.ala.org.au/ws/download?q=*&fields=scientificName,occurrenceCount&fq=-occurrenceCount:[*%20TO%20*])

Basis of records

Human observation	34.01M
Preserved specimen	9.54M
Machine observation	325,981
Genomic DNA	154,529
Image	102,693
Living specimen	51,445
Fossil specimen	22,114
Nomenclatural checklist	5,923
Sound	4,541
Literature	575
less..	



(acoustic, ARGOS, CPR, bird & bat recorders)

Camera trap
Bio-telemetry

Hover over to view layers

1000 km



Tracking Data Structure

OzTrack

Back to project ▾

Home Projects About

Animals Analysis History

Select all

Annabelle 🔍 ↕

Detections 🗑️

Dates: 2011-04-19 - 2011-09-24 Detections: 1013
Mean per day: 6.4 Max per day: 18

Download: [KML](#) [SHP](#)

Trajectory 🗑️

Dates: 2011-04-19 - 2011-09-24 Distance: 45,597 km
Mean step length: 0.045 km Mean step speed: 0.012 km/h

Download: [KML](#) [SHP](#)

Start and End Points 🗑️

Dates: 2011-04-19 - 2011-09-24

Dooley 🔍 ▾

M2 🔍 ▾

Tracking juvenile

AODN Australian Ocean Data Network Portal Home

Map Layer Chooser

Map Layers Add WMS Servers

- Observation Data
 - Australian Antarctic Division (AAD)
 - Australian Institute of Marine Science (AIMS)
 - Bureau of Meteorology (BOM)
 - Coastal Watch
 - CSIRO Marine and Atmospheric Research
 - DSEWPAC
 - Defence Science and Technology Organisation (DSTO)
 - e-Atlas
 - Institute for Marine and Antarctic Studies (IMAS)
 - Integrated Marine Observing System (IMOS)
 - Animal Tagging and Monitoring (AATAMS)
 - Acoustic tag receivers
 - AATAMS Satellite and Archival Tags
 - Satellite tracked CTD tags
 - Australian Fur Seal CTD Profiles
 - New Zealand Fur Seal CTD Profiles
 - Weddell Seal CTD Profiles
 - Southern Elephant Seal CTD Profiles
 - Australian Sea Lion CTD Profiles
- Argo Floats
- Autonomous Underwater Vehicle (AUV)
- Deep Water Moorings (ABOS)
- National Mooring Network (ANMN)
- Ocean Gliders (ANFOG)
- Ocean Radar (ACORN)
- Satellite Remote Sensing (SRS)
- Ships of Opportunity (SOOP)
- Wireless Sensor Network (FAIMMS)

AATAMS

'Absences'

(5834 ...)



'Invasiveness'



There is no equivalent to conservation status for alien invasive species:
A 'Black List'

Add facet

Facet: State conservation (unprocessed) [Facet Fields and definitions](#)

Legend

	class	count
<input type="checkbox"/>	Not listed as endangered	44860820
<input type="checkbox"/>	Vulnerable	747665
<input type="checkbox"/>	Endangered	342403
<input type="checkbox"/>	Rare	258213
<input type="checkbox"/>	Least Concern	228978
<input type="checkbox"/>	Near Threatened	220055
<input type="checkbox"/>	Endangered Populations	166221
<input type="checkbox"/>	Critically Endangered	43420
<input type="checkbox"/>	Presumed Extinct	35071
<input type="checkbox"/>	Poorly Known	30538
<input type="checkbox"/>	Extinct or Endangered	29128
<input type="checkbox"/>	Priority Four	25585
<input type="checkbox"/>	Priority Three	24656
<input type="checkbox"/>	Priority Two	12124
<input type="checkbox"/>	Priority One	10595
<input type="checkbox"/>	Listed under FFG Act	7807
<input type="checkbox"/>	vulnerable	5590
<input type="checkbox"/>	Data Deficient or Delisted	4818
<input type="checkbox"/>	Extinct	855

Navigation: << < 1 / 2 > >> [1 - 19 / 29]

Select all Clear selection

Collections



Australian Government
Department of the Environment

Contacts

- State & Territory weed contacts
- National weeds management facilitator

Error 404

Sorry, the page you are looking for was not found

The page could not be found because:

- It may have been moved or deleted by us
- You may have typed in an incorrect address (URL). Please try again

Try to find the information using:

- the [site index](#); or
- the [search](#) option on this page; or
- our [advanced search](#)

If you still cannot find the information, please [contact us](#).

ATLAS of LIVING AUSTRALIA
sharing biodiversity knowledge

Macropus rufus

Map options: Delete all Show all Hide all

Layer name: Macropus rufus

Display as: Density grid Points

Facet: User defined colour

Capacity: 100%

Size: 3

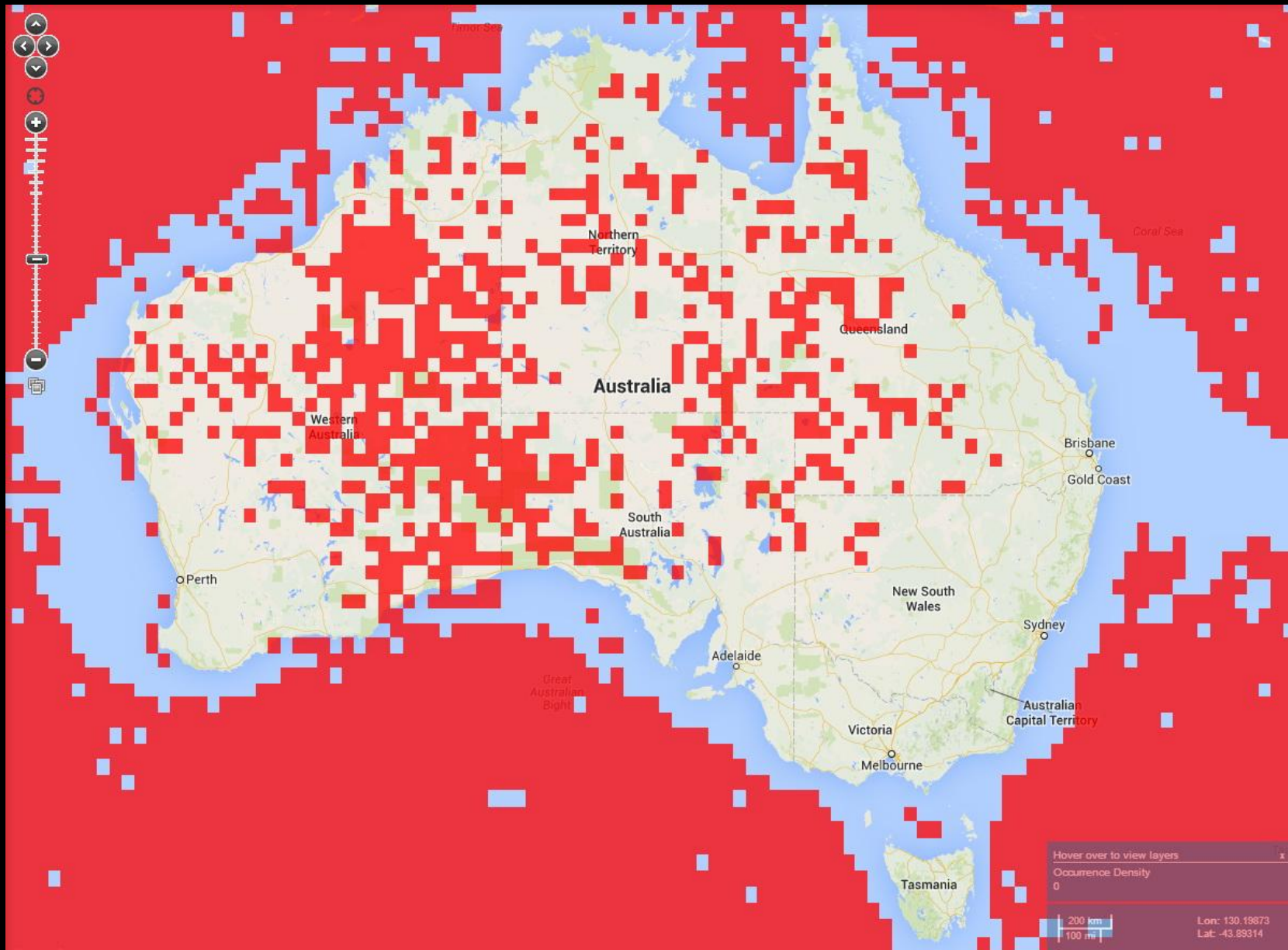
Display spatial uncertainty as a circle

Animation: [show](#)

Quick links

- View metadata for "Macropus rufus"
- Download all records for "Macropus rufus"
- Produce scatterplot for "Macropus rufus"
- Generate prediction for "Macropus rufus"
- Produce points to grid for "Macropus rufus"
- Produce GDM using species "Macropus rufus"
- Display facet of "Macropus rufus"

Unsampled areas



100-250m Terrestrial Environmental Layers



Add to Map ▾ Tools ▾ Import ▾ Export ▾ Help ▾

- National Dynamic Land Cover
- Euclidean Distance to the Australian Coastline
- Euclidean Distance to Coast (metres)

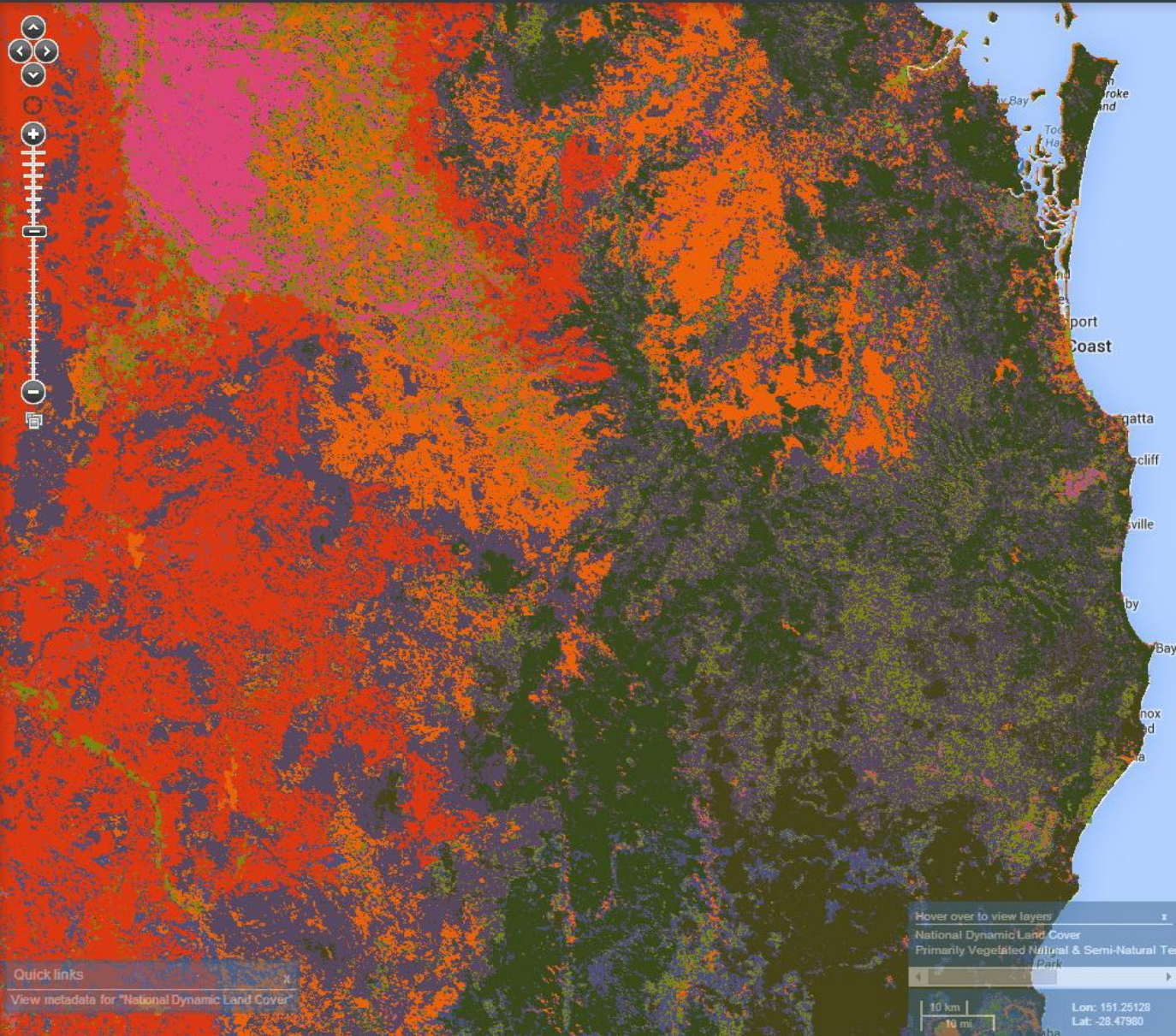
Map options Delete all Show all Hide all

National Dynamic Land Cover

Layer name: National Dynamic Land Cover Rename

Opacity: 100%

- Artificial surfaces
- Bare areas
- Water
- Water brine
- Cultiv herb irrigated
- Cultiv herb irr pasture
- Cultiv herb irr sugar
- Cultiv herb rainfed
- Cultiv herb rainfed pasture
- Cultiv herb rainfed sugar
- Aquatic vegetation
- Nat herb forbs open
- Nat herb forbs sparse
- Nat herb closed tussock grass
- Nat herb open alpine
- Nat herb open hummock grass
- Nat herb open sedge
- Nat herb open tussock grass
- Nat herb scattered
- Nat herb scattered tussock grass
- Nat herb sparse
- Nat herb sparse hummock grass
- Nat herb sparse tussock grass
- Nat shrubs closed
- Nat shrubs open
- Nat shrubs open chenopods
- Nat shrubs scattered
- Nat shrubs scattered chenopod
- Nat shrubs sparse
- Nat shrubs sparse chenopod
- Nat trees closed
- Nat trees open
- Nat trees scattered
- Nat trees sparse



Quick links x

[View metadata for "National Dynamic Land Cover"](#)

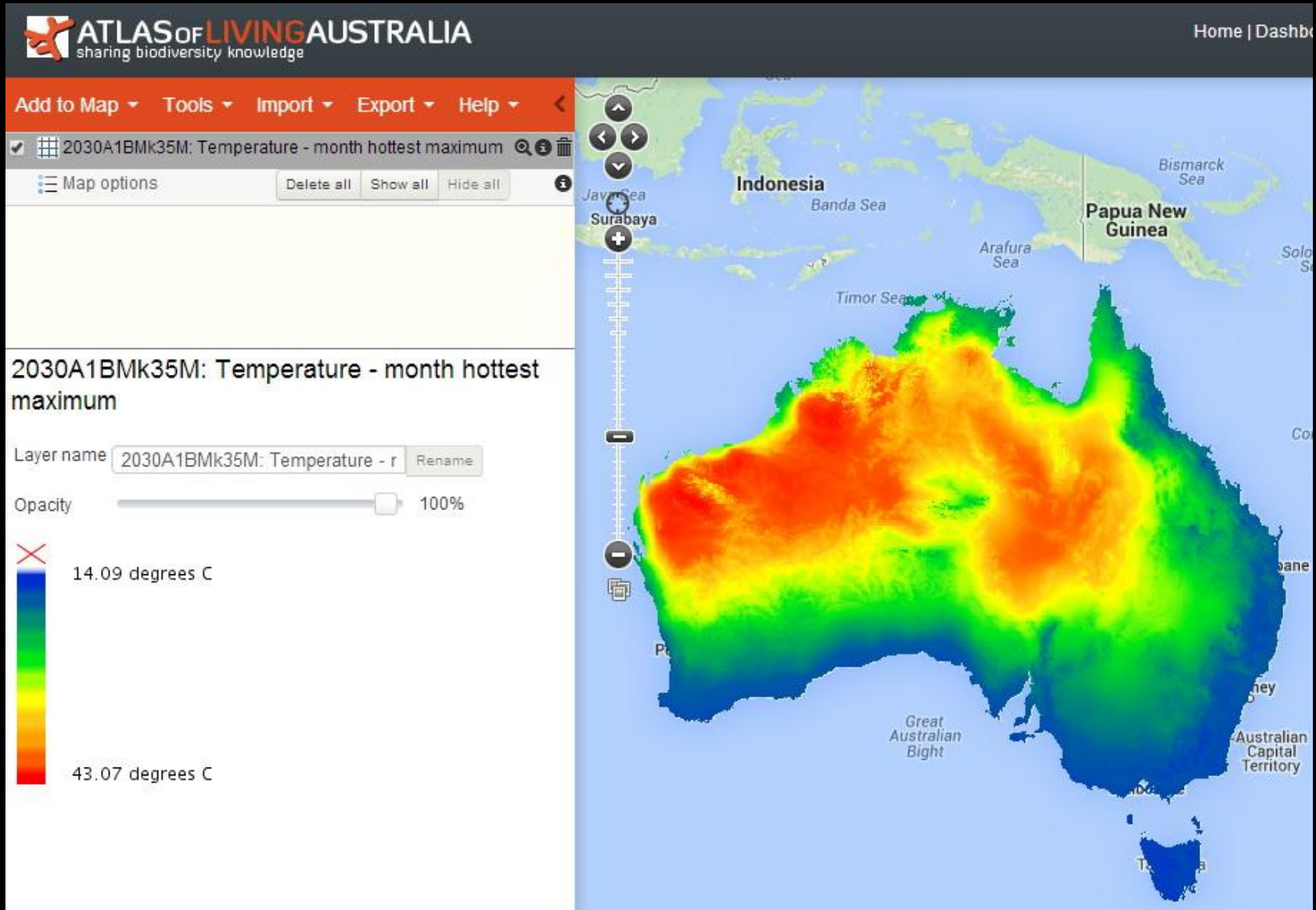
Hover over to view layers

- National Dynamic Land Cover
- Primarily Vegetated National & Semi-Natural Terrestrial
- National Park

10 km 10 mi

Lon: 151.25128
Lat: -28.47980

More Climate Scenarios

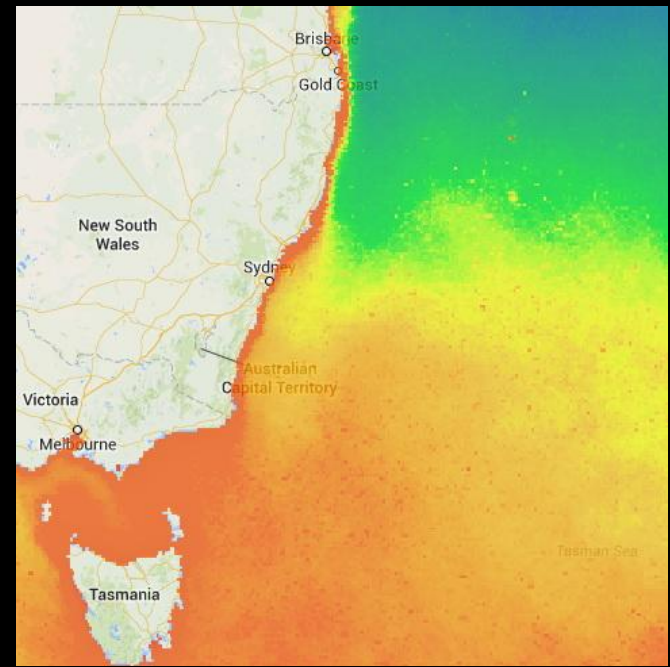
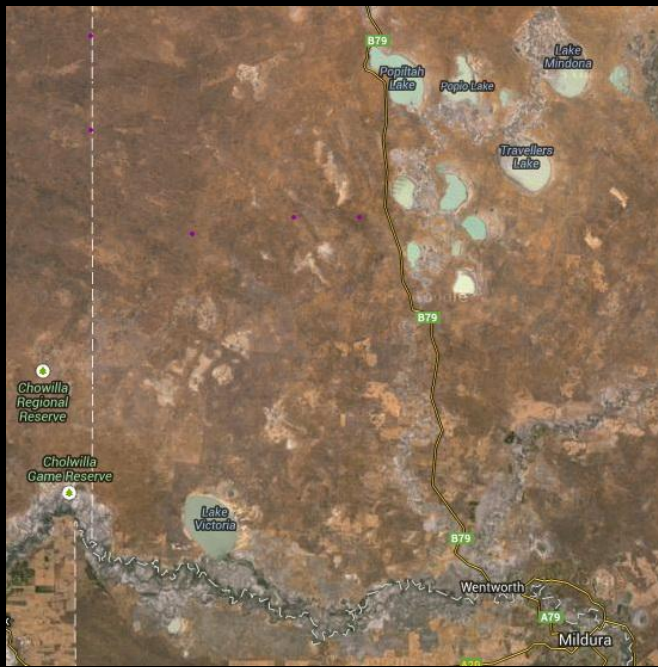


Environmental conditions



Freshwater – 0 !

Marine – 12e, 8c



A List of Freshwater Species



Indigenous Knowledge



Site Survey Images



Panoramio



Einer der breitesten Bäume die ich bisher
gesehen habe
by Steffen H

User Profiles and Workflows

Occurrence downloads by user type

Education	17,803 events	180.07M records
Government	6,380 events	141.39M records
Other	41,784 events	654.20M records
Unspecified	26,827 events	843.56M records
TOTAL	92,794 events	1.82B records

Occurrence downloads by reason

Scientific research	33,585 events	367.50M records
Ecological research	20,846 events	364.02M records
Conservation management/planning	6,744 events	145.96M records
Education	6,666 events	79.82M records
Environmental impact, site assessment	3,801 events	112.69M records
Systematic research	1,510 events	19.18M records
Other scientific research	567 events	4.32M records
Collection management	451 events	41.46M records
Biosecurity management, planning	406 events	9.08M records
Other	18,218 events	675.20M records
TOTAL	92,794 events	1.82B records
more/less...		

ALA citations

Citation	Rights	More Information	Records in Download
Records provided by OZCAM (Online Zoological Collections of Australian Museums) Provider, accessed through ALA website		http://collectionsalaorg.au/public/show/dp20	2913
Records provided by the Australian National Wildlife Collection, CSIRO, http://www.csiro.au/ , accessed through ALA website	Creative Commons Attribution 30 Australia (CC BY) Data is available under the Creative Commons Attribution 30 Australia license Sound files associated with specimen records are not available for download and re-use Please contact the Australian National Wildlife Collection for more information	http://collectionsalaorg.au/public/show/dr341	2913
Records provided by Commonwealth Scientific and Industrial Research Organisation, accessed through ALA website		http://collectionsalaorg.au/public/show/in6	2913

Occurrence records

50,155,464

records in total.

We estimate the number of potential duplicate records to be 6,599,837.

Data sets

763

Harvested websites	110
Occurrence record sets	333
Document sets	19
Uploaded record sets	45

Most recently added dataset is *Queensland Wildlife Data - trial*

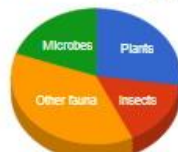
Basis of records

Human observation	37.15M
Preserved specimen	9.66M
Machine observation	325,981
Genomic DNA	154,529
Image	102,866
Living specimen	51,445
Fossil specimen	22,114

more..

Collections

147



Records by date

Latest record	25 May 2014
Last image added	18 May 2013
1600s	24
1700s	8,357
1800s	362,218
1900s	24.34M
2000s	20.54M

National Species Lists

Accepted names	195,424
Synonyms	146,974
Species names	152,080
Species with records	111,566

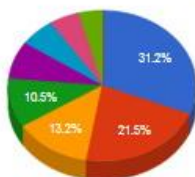
Spatial layers

413

Contextual layers	87
Environmental/gridded layers	326
Terrestrial layers	376
Marine layers	25

more..

Records by state and territory



- New South Wales
- Victoria
- Queensland
- South Australia
- Western Australia
- Northern Territory
- Tasmania
- Australian Capital Territory
- VIC

Identify Life

Identification keys:



532

Most recorded species

<i>Cracticus tibicen</i> - Australian Magpie	625064
<i>Grallina cyanoleuca</i> - Magpie-lark	493013
<i>Rhipidura (Sauloprocta) leucophrys</i> - Willie Wagtail	461175
<i>Malurus (Malurus) cyaneus</i> - Superb Fairy-wren	374274
<i>Eolophus roseicapillus</i> - Galah	366458
<i>Zosterops lateralis</i> - Silveryeye	356918

all lifeforms ▼

Type specimens

141,016

Holotypes	26103
Lectotypes	785
Neotypes	159
Isotypes	6
Types with images	5289

more..

Barcode of life



DNA barcode data

Records	606,922
Species	37,557
Countries	220
Institutions	790

Biodiversity heritage library



Pages	38.43M
Volumes	104,461
Titles	55,000

Biodiversity volunteer portal

Specimen labels transcribed	26,058
Fieldnotes pages transcribed	2,869
Volunteers	467
Projects active	42
Projects completed	15

Conservation status

Status	# species
Endangered	3783
Near Threatened	5673
Least Concern/Unknown	475
Listed under FFG Act	11
Extinct	192
Parent Species (Unofficial)	0

Records by data provider

Bird life Australia	12.58M
Office of Environment and...	6.94M
Australia's Virtual Herbarium	4.96M
OZCAM (Online Zoological...	3.43M
Eremaea	3.29M
South Australia, Department of...	1.73M
Department of Natural...	1.58M

more..

Records by institution

Australian Museum	1.12M
Centre for Australian National...	944,631
Royal Botanic Gardens Melbourne	850,587
Western Australia, Department...	752,671
Queensland Museum	734,730
The Royal Botanic Gardens &...	704,937
Department of Environment,...	660,185

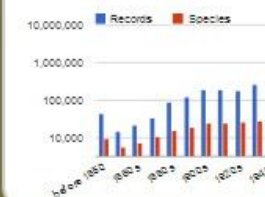
more..

Records by lifeform

Algae	45,973	FernsAndAllies	390,558
Amphibians	426,924	Fish	1,298,574
Angiosperms	10,775,712	Fungi	324,843
Animals	36,666,878	Gymnosperms	70,024
Arthropods	2,030,822	Insects	1,271,348
Bacteria	37,372	Mammals	1,626,123

more/less...

Records and species by decade



Occurrence tree

- Kingdoms
- ANIMALIA - 36866378
- Plantae - 11500059
- Fungi - 324843
- Protozoa - 151981
- PROTISTA - 86049
- Chromista - 51543
- Bacteria - 37372
- Animalia - 8378
- Viruses - 98

Occurrence downloads by reason

Scientific research	33,604 events	367.52M records
Ecological research	20,851 events	354.02M records
Conservation management/planning	6,755 events	146.83M records
Education	6,672 events	80.05M records
Environmental impact, site assessment	3,802 events	112.69M records
Systematic research	1,510 events	19.18M records
TOTAL	92,956 events	1.87B records

more/less...

Occurrence downloads by user type

Education	17,803 events	180.07M records
Government	6,382 events	141.40M records
Other	41,806 events	855.31M records
Unspecified	26,965 events	889.79M records
TOTAL	92,956 events	1.87B records

Species Images

40,983

Species with images	40983
Subspecies with images	2367
Taxa with images from Biodiversity Volunteer Portal	768
Taxa with images from citizen science	6215
Images viewed	10.41M

Functions Services




Champions

[Biodiversity Volunteer Portal](#) » Honour Board - Top 20 volunteers for All Time

Honour Board - Top 20 volunteers for All Time

Volunteer	Tasks completed
Megan Edey	17273
Baz Walter	12860
Helen Woods	10626
Teresa Van Der Heul	8302
Jim Richardson	5933
Reiner Richter	5220
Joy Pagon	4383
Grahame Parsons	3976
Geoffrey Berry	3725
Diana Gershwin	3420



'Friends of The Atlas'

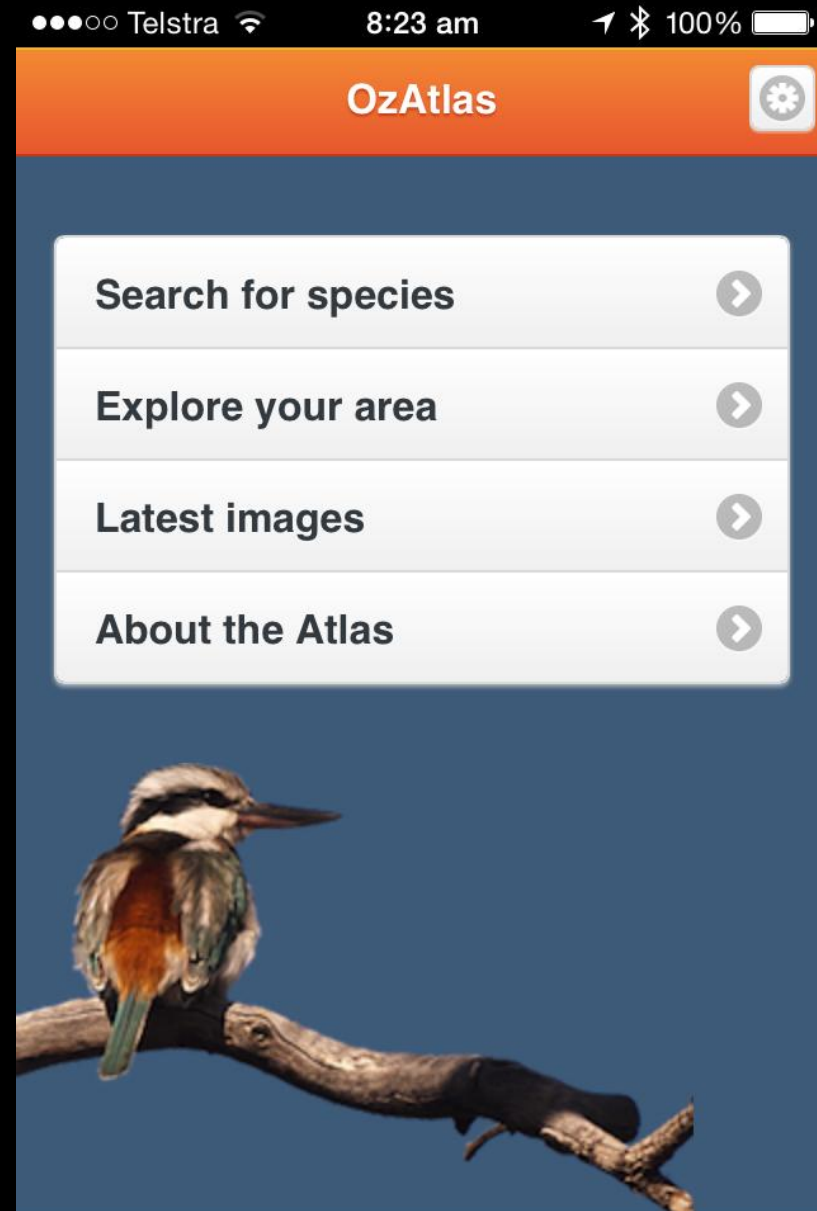


Communications!




Mobile

- Multiple observations at a point
- Offline recording and sync
- Time of observation (EXIF)
- Coordinate uncertainty





Links to Keys?





Home Keys Central My IdentifyLife Key to All Life Login


Search Contribute View: [All] [Most Recent] [Most Popular]


LUCID  **Fruits and Seeds of the Cerrado Attractive to Wildlife**
Key for species of Brazilian Cerrado that produce diaspores eaten and dispersed by native fauna. [Details ...](#)

HTML  **Key to species of Syntactus Förster known in Oriental and Eastern Palaearctic Regions**
A new species, *Syntactus julianicus* Sun & Sheng, sp.n. belonging to the tribe Pionini of the subfamily Ctenopelmatinae (Hymenoptera, Ichneumonidae), collected from Jiangxi Province, China, is reported. Illustrations of the new species and *Syntactus delusor* (Linnaeus, 1758), *Syntactus minor* (Holmgren, 1857) and *Syntactus varius* (Holmgren, 1858) are provided. A key to the species of *Syntactus* known from the Oriental and Eastern Palaearctic Regions is given. [Details ...](#)

HTML  **Key to the species of the genus Cheylostigmaeus**
Key to the species of the genus *Cheylostigmaeus* by Willmann, C. [Details ...](#)

HTML  **Key to the species of the genus Cheylostigmaeus**
Key to the species of the genus *Cheylostigmaeus* by Willmann, C. [Details ...](#)

LUCID  **Interactive Key to the Ferns of the Hawaiian Islands**
The Interactive Key to the Ferns of the Hawaiian Islands is an electronic, web-based diagnostic key designed for efficient and easy identification of Hawaiian ferns. The interactive key was created using Lucid v3.5 software. The interactive key treats all 204 currently recognized native and naturalized Hawaiian fern taxa. Nomenclature has been updated to comply with the most recent taxonomic treatments. Nearly all taxa are accompanied with images showing the general plant form and further diagnostic characters. Diagnostic characters and character states are accompanied with images or illustrations along with definitions. A glossary and fact sheets are accessed within the key. Fact sheets include species descriptions, distributions, Hawaiian names, and synonyms. [Details ...](#)

HTML  **Key to the species of the genus Cheylostigmaeus**
Key to the species of the genus *Cheylostigmaeus* by Willmann, C. [Details ...](#)

Identify Life

Identification keys:



532

Expose (more) Fields



occurrence_status_s	count
present	7651316
Present	4352874
common	9843
occasional	6195
Current	6101
abundant	5403
absent	5264
rare	4379
Not current	4090
breeding	772
Absent	570
Locally Extinct	147
unknown	121
uncommon	55
Abundant (found w/ little searching)	51
Abundant (found easily)	41
moderately common	32
Rare (only 1 or 2 found after intensive search)	28
Frequent (found with some searching)	25
Frequent (found w/ some searching)	13

occurrence_status_s	count
Exsitu	12
Introduced	11
Feeding	9
Rare (1-2 found)	9
Not Found (not present during search)	8
Young attached to mother	7
Courting or mating	6
Other	6
probably breeding	5
Common	3
Extant	3
Moderately common	3
translocation	3
Grooming	2
not found	2
Courting or Mating	1
Medium	1
Not Found (none present)	1
Rare (only 1 or 2)	1
Sleeping	1
Translocation	1
locally extinct	1



Comprehensive Area Reports



Area: 10,393 km ²	Area Endemicity: 0.128	Species: 525	Occurrences: 423,191
Ecoregions: 2	Lifeforms: 12	DNA sequences: 5	Endemic species: 1,002
Invasive Species: 17	Iconic species: 5	Migratory Species: 82	Threatened Species: 21
Expert distributions: 3	Checklist Areas: 1	Checklist Species: 31	Documents: 2
Gazetteer points: 124	Ecosystems Services: \$824m		

Dynamic Land Cover Classes

The Dynamic Land Cover Dataset is the first nationally consistent and thematically comprehensive land cover reference for Australia. It provides a base-line for reporting on change and trends in vegetation cover and extent. Information about land cover dynamics is essential to understanding and addressing a range of national challenges such as drought, salinity, water availability and ecosystem health. The data is a synopsis of land cover information for every 250m by 250m area of the country from April 2000 to April 2008. The classification scheme used to describe land cover categories in the Dataset conforms to the 2007 International Standards Organisation (ISO) land cover standard (19144-2). The Dataset shows Australian land covers clustered into 34 ISO classes. These reflect the structural character of vegetation, ranging from cultivated and managed land covers (crops and pastures) to natural land covers such as closed forest and open grasslands. [Ref1]

Australia's Dynamic Land Cover: <http://www.ga.gov.au/earth-observation/landcover.html>

“National Dynamic Land Cover” layer: Classification: Vegetation; Type: Contextual (polygonal);

Metadata contact organisation: Geoscience Australia (GA).

<http://spatial.ala.org.au/ws/layers/view/more/dlcmv1>

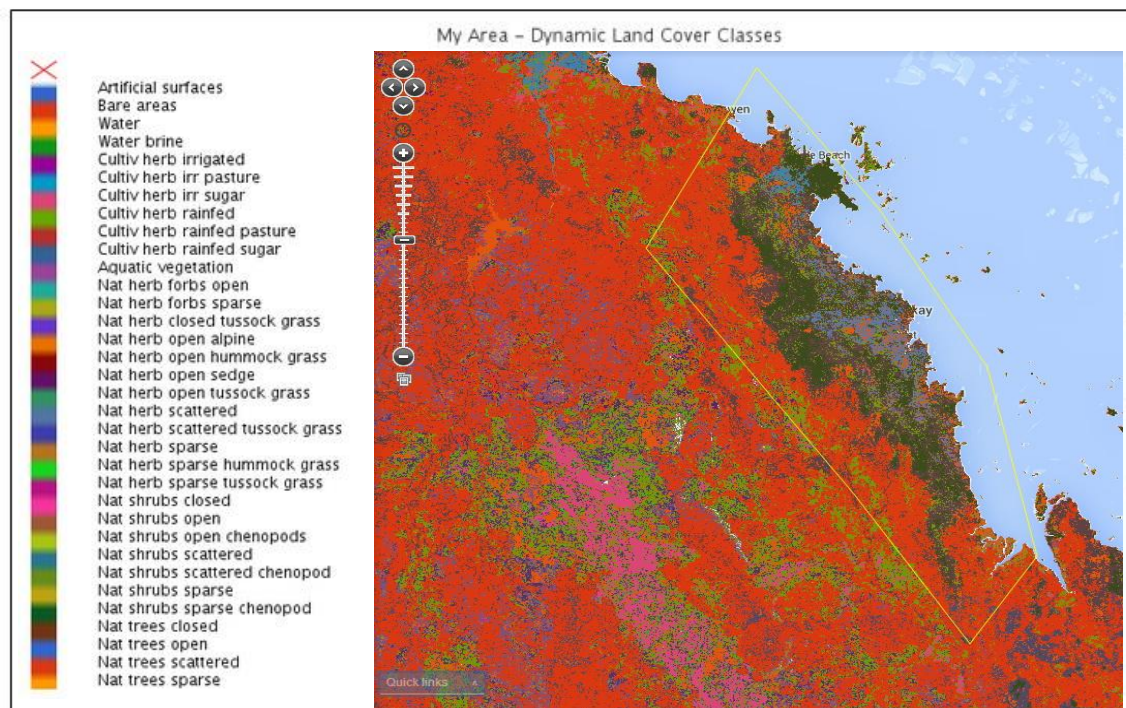


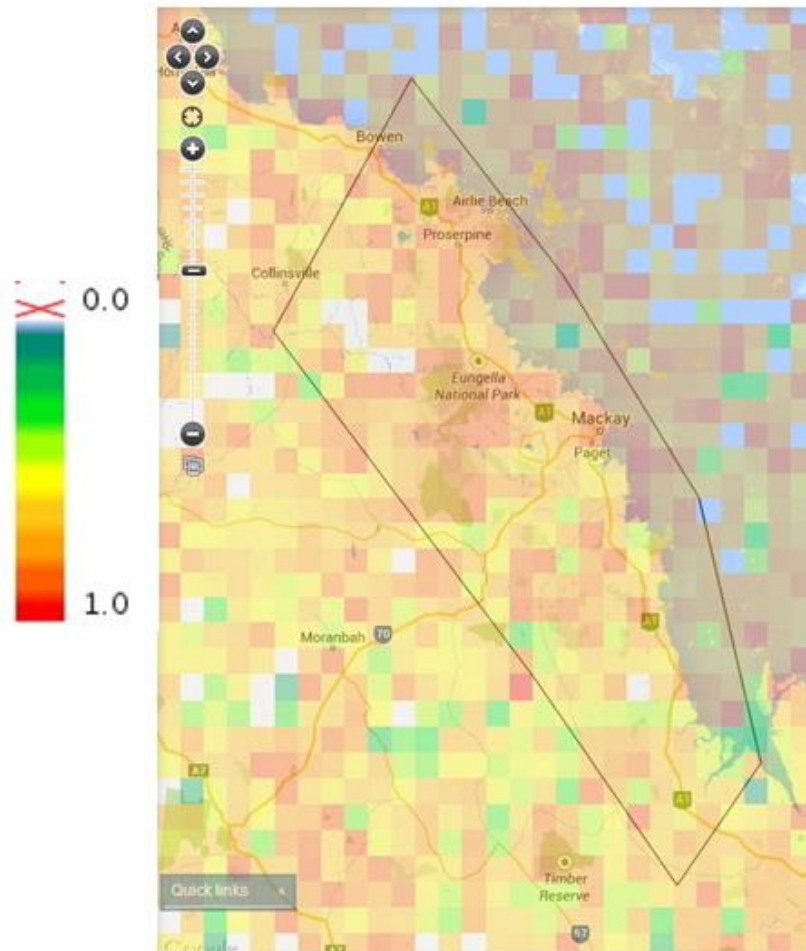
Figure 2: Map of “My Area” with National Dynamic Land Cover classes

Area Endemicity

Area endemicity: **0.583**

Endemicity for the area of interest is calculated using the corrected weighted endemism index developed by Crisp *et al.* (2001). This index measures the proportion of endemic species found in a grid cell. Centres of endemism can then be identified by running spatial autocorrelation analyses. The corrected weighted endemism index is not related to species richness (counting the number of species in a grid cell. [Ref6]).

Crisp *et al.* (2001): <http://onlinelibrary.wiley.com/doi/10.1046/j.1365-2699.2001.00524.x/full>



HPC?

- Expose an ALA 'data cube'?
- Generalised Dissimilarity Modelling
- Pre-processing or on-the-fly cross tabulations
- Prediction
- Indexing?




Export of Point Data in GIS Formats



The screenshot displays the ATLAS of Living Australia web interface. At the top, the logo reads "ATLAS of LIVING AUSTRALIA" with the tagline "sharing biodiversity knowledge". Below the logo is a navigation bar with "Add to Map", "Tools", "Import", "Export", and "Help" menus. A layer list on the left shows "Macropus rufus", "My Area: Murchison", and "IBRA 7 Regions", each with a checkbox and icons for search, info, and delete. Below the list are "Map options", "Delete all", "Show all", and "Hide all" buttons. The "My Area: Murchison" section includes a "Layer name" field with "My Area: Murchison" and a "Rename" button. A "Facet" color palette is shown with a "more" link and a purple circle. An "Opacity" slider is set to 60%. On the right, a map of Australia shows orange points and a purple shaded area in the Murchison region. The map includes navigation controls and labels for "Timor Sea" and "Great Australian Bight".

Export Layers




ATLAS of LIVING AUSTRALIA
sharing biodiversity knowledge

[Home](#) | [Log out](#) |

[Species](#) | [Locations](#) | [Collections](#) | **[Mapping & analysis](#)** | [Data sets](#) | [Blogs](#) | [Get involved](#) | [About the Atlas](#)

[Home](#) : [Mapping & analysis](#) : Spatial Layers

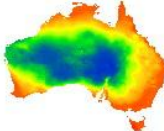
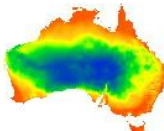
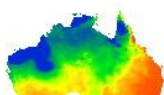
Spatial layers

Following are a list of ALA Spatial web services.

413 layers found.

Show entries

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Classification 1	Classification 2	Display name ▲	Short name ▼	Description ▼	Type ▼	Metadata contact organization ▼	Keywords ▼	Preview ▼
Climate	Precipitation	2030A1BMk35M: Aridity index - annual mean	2030A1BMk35M _arid_mean	Mean annual aridity index - future climate scenario for 2030 A1B emissions CSIRO Mk3.5 GCM medium climatic sensitivity - OZCLIM + ANUCLIMv5.1	Environmental (gridded)	CSIRO Ecosystem Sciences	evaporation, rain, precipitation, GDM-Ready, 2030-centred	 Click to view this layer
Climate	Precipitation	2030A1BMk35M: Aridity index - month max	2030A1BMk35M _arid_max	Maximum month aridity index - future climate scenario for 2030 A1B emissions CSIRO Mk3.5 GCM medium climatic sensitivity - OZCLIM + ANUCLIMv5.1	Environmental (gridded)	CSIRO Ecosystem Sciences	evaporation, rain, precipitation, GDM-Ready, 2030-centred	 Click to view this layer
Climate	Precipitation	2030A1BMk35M: Aridity index - month min	2030A1BMk35M _arid_min	Minimum month aridity index - future climate scenario for 2030 A1B emissions CSIRO Mk3.5 GCM	Environmental (gridded)	CSIRO Ecosystem Sciences	evaporation, rain, precipitation, GDM-Ready, 2030-centred	

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Questions?

...

and I'd value feedback on
feature and data **priorities**



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