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Protected Matters Search Tool

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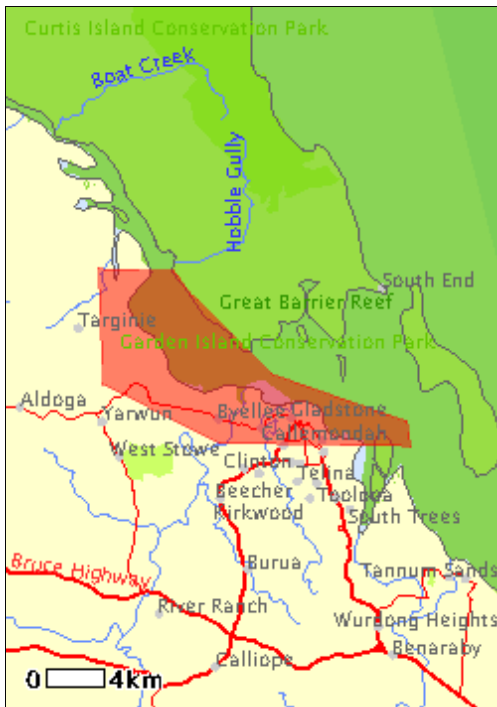
19 February 2009 18:12

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Information on the coverage of this report and qualifications on data supporting this report are contained in the [caveat](#) at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at <http://www.environment.gov.au/atlas> may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at <http://www.environment.gov.au/epbc/assessmentsapprovals/index.html>



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Search Type: Area

Buffer: 5 km

Coordinates: -23.8616,151.33, -23.8596,151.204, -23.821,151.127, -
 23.7445,151.124, -23.7459,151.174, -23.749,151.176, -
 23.7614,151.185, -23.7646,151.189, -23.8139,151.238, -
 23.8454,151.328



Report Contents: [Summary](#)

[Details](#)

- [Matters of NES](#)
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Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see <http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html>.

<u>World Heritage Properties:</u>	1
<u>National Heritage Places:</u>	1
Wetlands of International Significance: (Ramsar Sites)	None
Commonwealth Marine Areas:	None
<u>Threatened Ecological Communities:</u>	3
<u>Threatened Species:</u>	28
<u>Migratory Species:</u>	33

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage/index.html>.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Information on EPBC Act permit requirements and application forms can be found at <http://www.environment.gov.au/epbc/permits/index.html>.

<u>Commonwealth Lands:</u>	1
Commonwealth Heritage Places:	None
<u>Places on the RNE:</u>	4
<u>Listed Marine Species:</u>	72
<u>Whales and Other Cetaceans:</u>	11
Critical Habitats:	None
Commonwealth Reserves:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

<u>State and Territory Reserves:</u>	3
Other Commonwealth Reserves:	None
<u>Regional Forest Agreements:</u>	1

Details

Matters of National Environmental Significance

World Heritage Properties [[Dataset Information](#)]

[Great Barrier Reef QLD](#)

National Heritage Places [[Dataset Information](#)]

[Great Barrier Reef QLD](#)

Threatened Ecological Communities
[[Dataset Information](#)]

[Littoral Rainforest and Coastal Vine
Thickets of Eastern Australia](#)

[Semi-evergreen vine thickets of the
Brigalow Belt \(North and South\) and
Nandewar Bioregions](#)

[Weeping Myall Woodlands](#)

Status	Type of Presence
Critically Endangered	Community likely to occur within area
Endangered	Community likely to occur within area
Endangered	Community may occur within area

Threatened Species [[Dataset](#)

Information]	Status	Type of Presence
Birds		
Erythrotriorchis radiatus Red Goshawk	Vulnerable	Species or species habitat likely to occur within area
Geophaps scripta scripta Squatter Pigeon (southern)	Vulnerable	Species or species habitat likely to occur within area
Macronectes giganteus Southern Giant-Petrel	Endangered	Species or species habitat may occur within area
Pterodroma neglecta neglecta Kermadec Petrel (western)	Vulnerable	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe	Vulnerable	Species or species habitat may occur within area
Turnix melanogaster Black-breasted Button-quail	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat	Vulnerable	Species or species habitat may occur within area
Dasyurus hallucatus Northern Quoll	Endangered	Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale	Vulnerable	Breeding known to occur within area
Xeromys myoides Water Mouse, False Water Rat	Vulnerable	Species or species habitat likely to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle	Endangered	Breeding known to occur within area
Chelonia mydas Green Turtle	Vulnerable	Species or species habitat may occur within area
Dermochelys coriacea Leathery Turtle, Leatherback Turtle	Endangered	Species or species habitat may occur within area
Egernia rugosa Yakka Skink	Vulnerable	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle	Vulnerable	Species or species habitat may occur within area
Lepidochelys olivacea Pacific Ridley, Olive Ridley	Endangered	Species or species habitat may occur within area
Natator depressus Flatback Turtle	Vulnerable	Breeding known to occur within area
Paradelma orientalis	Vulnerable	Species or species habitat

Brigalow Scaly-foot likely to occur within area

Sharks

[*Pristis zijsron*](#) Vulnerable Species or species habitat may occur within area
Green Sawfish, Dindagubba,
Narrow snout Sawfish

[*Rhincodon typus*](#) Vulnerable Species or species habitat may occur within area
Whale Shark

Plants

[*Atalaya collina*](#) Endangered Species or species habitat likely to occur within area

[*Bosistoa selwynii*](#) Vulnerable Species or species habitat likely to occur within area
Heart-leaved Bosistoa

[*Bosistoa transversa*](#) Vulnerable Species or species habitat likely to occur within area
Three-leaved Bosistoa

[*Bulbophyllum globuliforme*](#) Vulnerable Species or species habitat likely to occur within area
Miniature Moss-orchid

[*Cupaniopsis shirleyana*](#) Vulnerable Species or species habitat likely to occur within area
Wedge-leaf Tuckeroo

[*Parsonsia larcomensis*](#) Vulnerable Species or species habitat likely to occur within area

[*Quassia bidwillii*](#) Vulnerable Species or species habitat likely to occur within area
Quassia

[*Taeniophyllum muelleri*](#) Vulnerable Species or species habitat may occur within area
Minute Orchid, Ribbon-root Orchid

Migratory Species [[Dataset Information](#)] Status Type of Presence

Migratory Terrestrial Species

Birds

[*Haliaeetus leucogaster*](#) Migratory Species or species habitat likely to occur within area
White-bellied Sea-Eagle

[*Hirundapus caudacutus*](#) Migratory Species or species habitat may occur within area
White-throated Needletail

[*Hirundo rustica*](#) Migratory Species or species habitat may occur within area
Barn Swallow

[*Merops ornatus*](#) Migratory Species or species habitat may occur within area
Rainbow Bee-eater

[*Monarcha melanopsis*](#) Migratory Breeding may occur within area
Black-faced Monarch

[*Monarcha trivirgatus*](#) Migratory Breeding likely to occur within

Spectacled Monarch		area
<i>Myiagra cyanoleuca</i> Satin Flycatcher	Migratory	Species or species habitat likely to occur within area
<i>Rhipidura rufifrons</i> Rufous Fantail	Migratory	Breeding may occur within area
Migratory Wetland Species		
Birds		
<i>Ardea alba</i> Great Egret, White Egret	Migratory	Species or species habitat may occur within area
<i>Ardea ibis</i> Cattle Egret	Migratory	Species or species habitat may occur within area
<i>Gallinago hardwickii</i> Latham's Snipe, Japanese Snipe	Migratory	Species or species habitat may occur within area
<i>Nettapus coromandelianus albipennis</i> Australian Cotton Pygmy-goose	Migratory	Species or species habitat may occur within area
<i>Numenius minutus</i> Little Curlew, Little Whimbrel	Migratory	Species or species habitat may occur within area
<i>Rostratula benghalensis s. lat.</i> Painted Snipe	Migratory	Species or species habitat may occur within area
Migratory Marine Birds		
<i>Apus pacificus</i> Fork-tailed Swift	Migratory	Species or species habitat may occur within area
<i>Ardea alba</i> Great Egret, White Egret	Migratory	Species or species habitat may occur within area
<i>Ardea ibis</i> Cattle Egret	Migratory	Species or species habitat may occur within area
<i>Macronectes giganteus</i> Southern Giant-Petrel	Migratory	Species or species habitat may occur within area
<i>Sterna albifrons</i> Little Tern	Migratory	Species or species habitat may occur within area
Migratory Marine Species		
Mammals		
<i>Balaenoptera edeni</i> Bryde's Whale	Migratory	Species or species habitat may occur within area
<i>Dugong dugon</i> Dugong	Migratory	Species or species habitat likely to occur within area
<i>Megaptera novaeangliae</i> Humpback Whale	Migratory	Breeding known to occur within area

<i>Orcaella brevirostris</i> Irrawaddy Dolphin	Migratory	Species or species habitat may occur within area
<i>Orcinus orca</i> Killer Whale, Orca	Migratory	Species or species habitat may occur within area
<i>Sousa chinensis</i> Indo-Pacific Humpback Dolphin	Migratory	Species or species habitat may occur within area
Reptiles		
<i>Caretta caretta</i> Loggerhead Turtle	Migratory	Breeding known to occur within area
<i>Chelonia mydas</i> Green Turtle	Migratory	Species or species habitat may occur within area
<i>Crocodylus porosus</i> Estuarine Crocodile, Salt-water Crocodile	Migratory	Species or species habitat likely to occur within area
<i>Dermochelys coriacea</i> Leathery Turtle, Leatherback Turtle	Migratory	Species or species habitat may occur within area
<i>Eretmochelys imbricata</i> Hawksbill Turtle	Migratory	Species or species habitat may occur within area
<i>Lepidochelys olivacea</i> Pacific Ridley, Olive Ridley	Migratory	Species or species habitat may occur within area
<i>Natator depressus</i> Flatback Turtle	Migratory	Breeding known to occur within area
Sharks		
<i>Rhincodon typus</i> Whale Shark	Migratory	Species or species habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species [[Dataset Information](#)]

Birds

	Status	Type of Presence
<i>Anseranas semipalmata</i> Magpie Goose	Listed - overfly marine area	Species or species habitat may occur within area
<i>Apus pacificus</i> Fork-tailed Swift	Listed - overfly marine area	Species or species habitat may occur within area
<i>Ardea alba</i>	Listed -	Species or species habitat may

Great Egret, White Egret	overfly marine area	occur within area
<i>Ardea ibis</i> Cattle Egret	Listed - overfly marine area	Species or species habitat may occur within area
<i>Gallinago hardwickii</i> Latham's Snipe, Japanese Snipe	Listed - overfly marine area	Species or species habitat may occur within area
<i>Haliaeetus leucogaster</i> White-bellied Sea-Eagle	Listed	Species or species habitat likely to occur within area
<i>Hirundapus caudacutus</i> White-throated Needletail	Listed - overfly marine area	Species or species habitat may occur within area
<i>Hirundo rustica</i> Barn Swallow	Listed - overfly marine area	Species or species habitat may occur within area
<i>Macronectes giganteus</i> Southern Giant-Petrel	Listed	Species or species habitat may occur within area
<i>Merops ornatus</i> Rainbow Bee-eater	Listed - overfly marine area	Species or species habitat may occur within area
<i>Monarcha melanopsis</i> Black-faced Monarch	Listed - overfly marine area	Breeding may occur within area
<i>Monarcha trivirgatus</i> Spectacled Monarch	Listed - overfly marine area	Breeding likely to occur within area
<i>Myiagra cyanoleuca</i> Satin Flycatcher	Listed - overfly marine area	Species or species habitat likely to occur within area
<i>Nettapus coromandelianus albipennis</i> Australian Cotton Pygmy-goose	Listed - overfly marine area	Species or species habitat may occur within area

<u><i>Numenius minutus</i></u> Little Curlew, Little Whimbrel	Listed - overfly marine area	Species or species habitat may occur within area
<u><i>Rhipidura rufifrons</i></u> Rufous Fantail	Listed - overfly marine area	Breeding may occur within area
<u><i>Rostratula benghalensis s. lat.</i></u> Painted Snipe	Listed - overfly marine area	Species or species habitat may occur within area
<u><i>Sterna albifrons</i></u> Little Tern	Listed	Species or species habitat may occur within area
Mammals		
<u><i>Dugong dugon</i></u> Dugong	Listed	Species or species habitat likely to occur within area
Ray-finned fishes		
<u><i>Acentronura tentaculata</i></u> Hairy Pygmy Pipehorse	Listed	Species or species habitat may occur within area
<u><i>Campichthys tryoni</i></u> Tryon's Pipefish	Listed	Species or species habitat may occur within area
<u><i>Choeroichthys brachysoma</i></u> Pacific Short-bodied Pipefish, Short- bodied Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys amplexus</i></u> Fijian Banded Pipefish, Brown-banded Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys flavofasciatus</i></u> Yellow-banded Pipefish, Network Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys haematopterus</i></u> Reef-top Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys intestinalis</i></u> Australian Messmate Pipefish, Banded Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys ocellatus</i></u> Orange-spotted Pipefish, Ocellated Pipefish	Listed	Species or species habitat may occur within area
<u><i>Corythoichthys paxtoni</i></u> Paxton's Pipefish	Listed	Species or species habitat may occur within area

<u><i>Corythoichthys schultzi</i></u> Schultz's Pipefish	Listed	Species or species habitat may occur within area
<u><i>Doryrhamphus excisus</i></u> Indian Blue-stripe Pipefish, Blue-stripe Pipefish	Listed	Species or species habitat may occur within area
<u><i>Festucalex cinctus</i></u> Girdled Pipefish	Listed	Species or species habitat may occur within area
<u><i>Filicampus tigris</i></u> Tiger Pipefish	Listed	Species or species habitat may occur within area
<u><i>Halicampus dunckeri</i></u> Red-hair Pipefish, Duncker's Pipefish	Listed	Species or species habitat may occur within area
<u><i>Halicampus grayi</i></u> Mud Pipefish, Gray's Pipefish	Listed	Species or species habitat may occur within area
<u><i>Halicampus nitidus</i></u> Glittering Pipefish	Listed	Species or species habitat may occur within area
<u><i>Halicampus spinirostris</i></u> Spiny-snout Pipefish	Listed	Species or species habitat may occur within area
<u><i>Hippichthys cyanospilos</i></u> Blue-speckled Pipefish, Blue-spotted Pipefish	Listed	Species or species habitat may occur within area
<u><i>Hippichthys heptagonus</i></u> Madura Pipefish, Reticulated Freshwater Pipefish	Listed	Species or species habitat may occur within area
<u><i>Hippichthys penicillus</i></u> Beady Pipefish, Steep-nosed Pipefish	Listed	Species or species habitat may occur within area
<u><i>Hippocampus bargibanti</i></u> Pygmy Seahorse	Listed	Species or species habitat may occur within area
<u><i>Hippocampus kuda</i></u> Spotted Seahorse, Yellow Seahorse	Listed	Species or species habitat may occur within area
<u><i>Hippocampus planifrons</i></u> Flat-face Seahorse	Listed	Species or species habitat may occur within area
<u><i>Hippocampus zebra</i></u> Zebra Seahorse	Listed	Species or species habitat may occur within area
<u><i>Lissocampus runa</i></u> Javelin Pipefish	Listed	Species or species habitat may occur within area
<u><i>Micrognathus andersonii</i></u> Anderson's Pipefish, Shortnose Pipefish	Listed	Species or species habitat may occur within area
<u><i>Micrognathus brevirostris</i></u> Thorn-tailed Pipefish	Listed	Species or species habitat may occur within area
<u><i>Nannocampus pictus</i></u>	Listed	Species or species habitat may

Painted Pipefish, Reef Pipefish		occur within area
<i>Solegnathus hardwickii</i> Pipehorse	Listed	Species or species habitat may occur within area
<i>Solenostomus cyanopterus</i> Blue-finned Ghost Pipefish, Robust Ghost Pipefish	Listed	Species or species habitat may occur within area
<i>Solenostomus paradoxus</i> Harlequin Ghost Pipefish, Ornate Ghost Pipefish	Listed	Species or species habitat may occur within area
<i>Syngnathoides biaculeatus</i> Double-ended Pipehorse, Alligator Pipefish	Listed	Species or species habitat may occur within area
<i>Trachyrhamphus bicoarctatus</i> Bend Stick Pipefish, Short-tailed Pipefish	Listed	Species or species habitat may occur within area
Reptiles		
<i>Acalyptophis peronii</i> Horned Seasnake	Listed	Species or species habitat may occur within area
<i>Aipysurus duboisii</i> Dubois' Seasnake	Listed	Species or species habitat may occur within area
<i>Aipysurus eydouxii</i> Spine-tailed Seasnake	Listed	Species or species habitat may occur within area
<i>Aipysurus laevis</i> Olive Seasnake	Listed	Species or species habitat may occur within area
<i>Astrotia stokesii</i> Stokes' Seasnake	Listed	Species or species habitat may occur within area
<i>Caretta caretta</i> Loggerhead Turtle	Listed	Breeding known to occur within area
<i>Chelonia mydas</i> Green Turtle	Listed	Species or species habitat may occur within area
<i>Crocodylus porosus</i> Estuarine Crocodile, Salt-water Crocodile	Listed	Species or species habitat likely to occur within area
<i>Dermochelys coriacea</i> Leathery Turtle, Leatherback Turtle	Listed	Species or species habitat may occur within area
<i>Disteira kingii</i> Spectacled Seasnake	Listed	Species or species habitat may occur within area
<i>Disteira major</i> Olive-headed Seasnake	Listed	Species or species habitat may occur within area
<i>Emydocephalus annulatus</i> Turtle-headed Seasnake	Listed	Species or species habitat may occur within area
<i>Eretmochelys imbricata</i>	Listed	Species or species habitat may

Hawksbill Turtle		occur within area
<i>Hydrophis elegans</i> Elegant Seasnake	Listed	Species or species habitat may occur within area
<i>Lapemis hardwickii</i> Spine-bellied Seasnake	Listed	Species or species habitat may occur within area
<i>Laticauda colubrina</i> a sea krait	Listed	Species or species habitat may occur within area
<i>Laticauda laticaudata</i> a sea krait	Listed	Species or species habitat may occur within area
<i>Lepidochelys olivacea</i> Pacific Ridley, Olive Ridley	Listed	Species or species habitat may occur within area
<i>Natator depressus</i> Flatback Turtle	Listed	Breeding known to occur within area
<i>Pelamis platurus</i> Yellow-bellied Seasnake	Listed	Species or species habitat may occur within area
Whales and Other Cetaceans [Dataset Information]	Status	Type of Presence
<i>Balaenoptera acutorostrata</i> Minke Whale	Cetacean	Species or species habitat may occur within area
<i>Balaenoptera edeni</i> Bryde's Whale	Cetacean	Species or species habitat may occur within area
<i>Delphinus delphis</i> Common Dolphin	Cetacean	Species or species habitat may occur within area
<i>Grampus griseus</i> Risso's Dolphin, Grampus	Cetacean	Species or species habitat may occur within area
<i>Megaptera novaeangliae</i> Humpback Whale	Cetacean	Breeding known to occur within area
<i>Orcaella brevirostris</i> Irrawaddy Dolphin	Cetacean	Species or species habitat may occur within area
<i>Orcinus orca</i> Killer Whale, Orca	Cetacean	Species or species habitat may occur within area
<i>Sousa chinensis</i> Indo-Pacific Humpback Dolphin	Cetacean	Species or species habitat may occur within area
<i>Stenella attenuata</i> Spotted Dolphin, Pantropical Spotted Dolphin	Cetacean	Species or species habitat may occur within area
<i>Tursiops aduncus</i> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin	Cetacean	Species or species habitat likely to occur within area
<i>Tursiops truncatus s. str.</i>	Cetacean	Species or species habitat may

Bottlenose Dolphin occur within area

Commonwealth Lands [[Dataset Information](#)]

Defence

Places on the RNE [[Dataset Information](#)]

Note that not all Indigenous sites may be listed.

Natural

[Balaclava Island and The Narrows QLD](#)

[Curtis Island \(part\) QLD](#)

[Garden Island Environmental Park QLD](#)

[Great Barrier Reef Region QLD](#)

Extra Information

State and Territory Reserves [[Dataset Information](#)]

Garden Island Conservation Park, QLD

Mackay/Capricorn Marine Park, QLD

Rodds Bay Dugong Protection Area, QLD

Regional Forest Agreements [[Dataset Information](#)]

Note that all RFA areas including those still under consideration have been included.

South East Queensland RFA, Queensland

Caveat

The information presented in this report has been provided by a range of data sources as [acknowledged](#) at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the *Environment Protection and Biodiversity Conservation Act 1999*. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under "type of presence". For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the [migratory](#) and [marine](#) provisions of the Act have been mapped.

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as [extinct or considered as vagrants](#)
- some species and ecological communities that have only recently been listed
- [some terrestrial species](#) that overfly the Commonwealth marine area
- migratory species that are very [widespread, vagrant, or only occur in small numbers](#).

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites;
- seals which have only been mapped for breeding sites near the Australian continent.

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgments

This database has been compiled from a range of data sources. The Department acknowledges the following custodians who have contributed valuable data and advice:

- [New South Wales National Parks and Wildlife Service](#)
- [Department of Sustainability and Environment, Victoria](#)
- [Department of Primary Industries, Water and Environment, Tasmania](#)
- [Department of Environment and Heritage, South Australia Planning SA](#)

- [Parks and Wildlife Commission of the Northern Territory](#)
- [Environmental Protection Agency, Queensland](#)
- [Birds Australia](#)
- [Australian Bird and Bat Banding Scheme](#)
- [Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [Queensland Herbarium](#)
- [National Herbarium of NSW](#)
- [Royal Botanic Gardens and National Herbarium of Victoria](#)
- [Tasmanian Herbarium](#)
- [State Herbarium of South Australia](#)
- [Northern Territory Herbarium](#)
- [Western Australian Herbarium](#)
- [Australian National Herbarium, Atherton and Canberra](#)
- [University of New England](#)
- Other groups and individuals

[ANUcliM Version 1.8, Centre for Resource and Environmental Studies, Australian National University](#) was used extensively for the production of draft maps of species distribution. Environment Australia is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

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