



Australian Government

Department of Climate Change, Energy,
the Environment and Water

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. Please see the caveat for interpretation of information provided here.

Report created: 02-Feb-2023

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Summary

Matters of National Environment 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](#).

| | |
|---|------|
| World Heritage Properties: | None |
| National Heritage Places: | None |
| Wetlands of International Importance (Ramsar) | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 10 |
| Listed Threatened Species: | 59 |
| Listed Migratory Species: | 14 |

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. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

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.

| | |
|---|------|
| Commonwealth Lands: | 9 |
| Commonwealth Heritage Places: | 1 |
| Listed Marine Species: | 20 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Australian Marine Parks: | None |
| Habitat Critical to the Survival of Marine Turtles: | None |

Extra Information

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

| | |
|---|------|
| State and Territory Reserves: | 2 |
| Regional Forest Agreements: | None |
| Nationally Important Wetlands: | None |
| EPBC Act Referrals: | 11 |
| Key Ecological Features (Marine): | None |
| Biologically Important Areas: | None |
| Bioregional Assessments: | 1 |
| Geological and Bioregional Assessments: | None |

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[[Resource Information](#)]

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.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

| Community Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|---------------------------|---------------------------------|
| Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion | Endangered | Community may occur | In feature area within area |
| Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland | Endangered | Community may occur | In feature area within area |
| Coastal Upland Swamps in the Sydney Basin Bioregion | Endangered | Community may occur | In buffer area only within area |
| Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion | Critically Endangered | Community may occur | In feature area within area |
| Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest | Critically Endangered | Community likely to occur | In feature area within area |
| Elderslie Banksia Scrub Forest in the Sydney Basin Bioregion | Critically Endangered | Community may occur | In buffer area only within area |
| River-flat eucalypt forest on coastal floodplains of southern New South Wales and eastern Victoria | Critically Endangered | Community may occur | In feature area within area |
| Shale Sandstone Transition Forest of the Sydney Basin Bioregion | Critically Endangered | Community likely to occur | In feature area within area |
| Upland Basalt Eucalypt Forests of the Sydney Basin Bioregion | Endangered | Community may occur | In buffer area only within area |
| Western Sydney Dry Rainforest and Moist Woodland on Shale | Critically Endangered | Community likely to occur | In feature area within area |

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|-----------------|---------------------|---------------|---------------|
|-----------------|---------------------|---------------|---------------|

BIRD

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Anthochaera phrygia Regent Honeyeater [82338] | Critically Endangered | Foraging, feeding or related behaviour likely to occur within area | In feature area |
| Botaurus poiciloptilus Australasian Bittern [1001] | Endangered | Species or species habitat known to occur within area | In feature area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |
| Callocephalon fimbriatum Gang-gang Cockatoo [768] | Endangered | Species or species habitat known to occur within area | In feature area |
| Calyptorhynchus lathami lathami South-eastern Glossy Black-Cockatoo [67036] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Dasyornis brachypterus Eastern Bristlebird [533] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Erythrorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Falco hypoleucos Grey Falcon [929] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Grantiella picta Painted Honeyeater [470] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Hirundapus caudacutus White-throated Needletail [682] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Lathamus discolor Swift Parrot [744] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area | In feature area |
| Pycnoptilus floccosus Pilotbird [525] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area | In feature area |
| FISH | | | |
| Macquaria australasica Macquarie Perch [66632] | Endangered | Species or species habitat known to occur within area | In feature area |
| FROG | | | |
| Heleioporus australiacus Giant Burrowing Frog [1973] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Litoria aurea Green and Golden Bell Frog [1870] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Litoria littlejohni Littlejohn's Tree Frog, Heath Frog [64733] | Endangered | Species or species habitat likely to occur within area | In buffer area only |
| Litoria watsoni Watson's Tree Frog [91509] | Endangered | Species or species habitat may occur within area | In buffer area only |
| Mixophyes balbus Stuttering Frog, Southern Barred Frog (in Victoria) [1942] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| INSECT | | | |
| Austrocordulia leonardi Sydney Hawk Dragonfly [84741] | Endangered | Species or species habitat known to occur within area | In feature area |

MAMMAL

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|---|-----------------|
| Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184] | Endangered | Species or species habitat known to occur within area | In feature area |
| Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050] | Endangered | Species or species habitat may occur within area | In feature area |
| Notamacropus parma Parma Wallaby [89289] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Petauroides volans Greater Glider (southern and central) [254] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Petrogale penicillata Brush-tailed Rock-wallaby [225] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104] | Endangered | Species or species habitat known to occur within area | In feature area |
| Pseudomys novaehollandiae New Holland Mouse, Pookila [96] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Pteropus poliocephalus Grey-headed Flying-fox [186] | Vulnerable | Foraging, feeding or related behaviour known to occur within area | In feature area |
| PLANT | | | |
| Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] | Vulnerable | Species or species habitat known to occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|---------------------|
| Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] | Vulnerable | Species or species habitat likely to occur within area | In buffer area only |
| Allocasuarina glareicola [21932] | Endangered | Species or species habitat may occur within area | In feature area |
| Caladenia tessellata Thick-lipped Spider-orchid, Daddy Long-legs [2119] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Cryptostylis hunteriana Leafless Tongue-orchid [19533] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Cynanchum elegans White-flowered Wax Plant [12533] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Genoplesium baueri Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Grevillea parviflora subsp. parviflora Small-flower Grevillea [64910] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Haloragis exalata subsp. exalata Wingless Raspwort, Square Raspwort [24636] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Leucopogon exolasius Woronora Beard-heath [14251] | Vulnerable | Species or species habitat likely to occur within area | In buffer area only |
| Melaleuca deanei Deane's Melaleuca [5818] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Persicaria elatior Knotweed, Tall Knotweed [5831] | Vulnerable | Species or species habitat likely to occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|--|---------------------|
| Persoonia bargoensis Bargo Geebung [56267] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Persoonia hirsuta Hairy Geebung, Hairy Persoonia [19006] | Endangered | Species or species habitat known to occur within area | In feature area |
| Persoonia nutans Nodding Geebung [18119] | Endangered | Species or species habitat may occur within area | In feature area |
| Pimelea curviflora var. curviflora [4182] | Vulnerable | Species or species habitat may occur within area | In buffer area only |
| Pimelea spicata Spiked Rice-flower [20834] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Pomaderris brunnea Rufous Pomaderris, Brown Pomaderris [16845] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Pomaderris cotoneaster Cotoneaster Pomaderris [2043] | Endangered | Species or species habitat may occur within area | In feature area |
| Pterostylis saxicola Sydney Plains Greenhood [64537] | Endangered | Species or species habitat likely to occur within area | In feature area |
| Pultenaea aristata [18062] | Vulnerable | Species or species habitat likely to occur within area | In buffer area only |
| Rhizanthella slateri Eastern Underground Orchid [11768] | Endangered | Species or species habitat may occur within area | In feature area |
| Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|---------------------|
| Syzygium paniculatum Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307] | Vulnerable | Species or species habitat likely to occur within area | In feature area |
| Thelymitra kangaloonica Kangaloon Sun Orchid [81861] | Critically Endangered | Species or species habitat likely to occur within area | In buffer area only |
| Thesium australe Austral Toadflax, Toadflax [15202] | Vulnerable | Species or species habitat likely to occur within area | In feature area |

REPTILE

| | | | |
|--|------------|--|-----------------|
| Delma impar Striped Legless Lizard, Striped Snake-lizard [1649] | Vulnerable | Species or species habitat may occur within area | In feature area |
| Hoplocephalus bungaroides Broad-headed Snake [1182] | Vulnerable | Species or species habitat likely to occur within area | In feature area |

Listed Migratory Species [[Resource Information](#)]

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|-----------------|
| Migratory Marine Birds | | | |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area | In feature area |

Migratory Terrestrial Species

| | | | |
|--|------------|---|-----------------|
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat may occur within area | In feature area |
| Hirundapus caudacutus White-throated Needletail [682] | Vulnerable | Species or species habitat known to occur within area | In feature area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area | In feature area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat may occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|--|-----------------|
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area | In feature area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area | In feature area |
| Migratory Wetlands Species | | | |
| Actitis hypoleucos Common Sandpiper [59309] | | Species or species habitat may occur within area | In feature area |
| Calidris acuminata Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area | In feature area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area | In feature area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area | In feature area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat known to occur within area | In feature area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area | In feature area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat likely to occur within area | In feature area |

Other Matters Protected by the EPBC Act

Commonwealth Lands [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

| Commonwealth Land Name | State | Buffer Status |
|---|-------|---------------|
| Communications, Information Technology and the Arts - Telstra Corporation Limited | | |

| Commonwealth Land Name | State | Buffer Status |
|--|-------|---------------------|
| Commonwealth Land - Australian Telecommunications Commission [12199] | NSW | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12156] | NSW | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [12119] | NSW | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [12157] | NSW | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [12200] | NSW | In buffer area only |

Unknown

| | | |
|-----------------------------|-----|---------------------|
| Commonwealth Land - [12918] | NSW | In buffer area only |
| Commonwealth Land - [15679] | NSW | In buffer area only |
| Commonwealth Land - [15678] | NSW | In buffer area only |
| Commonwealth Land - [15677] | NSW | In buffer area only |

Commonwealth Heritage Places

[[Resource Information](#)]

| Name | State | Status | Buffer Status |
|---|-------|--------------|---------------------|
| Indigenous | | | |
| Cubbitch Barta National Estate Area | NSW | Listed place | In buffer area only |

Listed Marine Species

[[Resource Information](#)]

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|---------------------|--|-----------------|
| Bird | | | |
| Actitis hypoleucos | | | |
| Common Sandpiper [59309] | | Species or species habitat may occur within area | In feature area |
| Apus pacificus | | | |
| Fork-tailed Swift [678] | | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Bubulcus ibis as Ardea ibis | | | |
| Cattle Egret [66521] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Calidris acuminata | | | |
| Sharp-tailed Sandpiper [874] | | Species or species habitat known to occur within area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|---|-----------------------|--|-----------------|
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Calidris melanotos Pectoral Sandpiper [858] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425] | | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat known to occur within area overfly marine area | In feature area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species habitat known to occur within area | In feature area |
| Hirundapus caudacutus White-throated Needletail [682] | Vulnerable | Species or species habitat known to occur within area overfly marine area | In feature area |
| Lathamus discolor Swift Parrot [744] | Critically Endangered | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area overfly marine area | In feature area |

| Scientific Name | Threatened Category | Presence Text | Buffer Status |
|--|-----------------------|--|-----------------|
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat known to occur within area overfly marine area | In feature area |
| Neophema chrysostoma Blue-winged Parrot [726] | | Species or species habitat may occur within area overfly marine area | In feature area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area | In feature area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area overfly marine area | In feature area |
| Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area overfly marine area | In feature area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat likely to occur within area overfly marine area | In feature area |

Extra Information

| State and Territory Reserves | | | [Resource Information] |
|------------------------------|-------------------------|-------|--|
| Protected Area Name | Reserve Type | State | Buffer Status |
| Dharawal | State Conservation Area | NSW | In buffer area only |
| Dharawal | National Park | NSW | In buffer area only |

| EPBC Act Referrals | | | | | [Resource Information] |
|--------------------|-----------|------------------|-------------------|---------------|--|
| Title of referral | Reference | Referral Outcome | Assessment Status | Buffer Status | |
| Controlled action | | | | | |

| Title of referral | Reference | Referral Outcome | Assessment Status | Buffer Status |
|--|--------------|---|-----------------------------|---------------------|
| Controlled action | | | | |
| Construction of a ventilation shaft and access Road to service underground operations | 2010/5722 | Controlled Action | Post-Approval | In buffer area only |
| Extension of Underground Mining Operations at The Bulli Seam Operations | 2010/5350 | Controlled Action | Post-Approval | In feature area |
| Mt Gilead residential development, NSW | 2015/7599 | Controlled Action | Post-Approval | In buffer area only |
| Mt Gilead Stage 2 Residential Development | 2019/8587 | Controlled Action | Further Information Request | In feature area |
| Residential Development, St Helens Park, NSW | 2009/5015 | Controlled Action | Further Information Request | In buffer area only |
| Not controlled action | | | | |
| Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia | 2015/7522 | Not Controlled Action | Completed | In feature area |
| INDIGO Central Submarine Telecommunications Cable | 2017/8127 | Not Controlled Action | Completed | In feature area |
| Realignment of Link Road and residential development adjacent to Camden Bypass | 2005/2181 | Not Controlled Action | Completed | In buffer area only |
| Not controlled action (particular manner) | | | | |
| INDIGO Marine Cable Route Survey (INDIGO) | 2017/7996 | Not Controlled Action (Particular Manner) | Post-Approval | In feature area |
| Referral decision | | | | |
| Northern Expansion of the Camden Gas Project | 2012/6638 | Referral Decision | Completed | In buffer area only |
| Residential development, Lot 61 off Appin Road, Mt Gilead | 2016/7830 | Referral Decision | Completed | In buffer area only |
| Bioregional Assessments | | | | |
| SubRegion | BioRegion | Website | Buffer Status | |
| Sydney | Sydney Basin | BA website | In feature area | |

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

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

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-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, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact us](#) page.

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