

## APPENDIX 3

### Categories of Rare or Threatened fauna in Victoria

Threatened fauna (shorebirds and marine mammals) species identified in this report have been characterised according to the following threatened species categories.

#### **National Status: Environment Protection and Biodiversity Conservation Act (EPBC)**

The EPBC categories are based on the IUCN Red List categorisation (IUCN 1994). In order to qualify for a threat category, a taxon must meet one or more assessment criteria, based on features such as numbers of individuals and populations, previous or projected declines in numbers or habitat, extent of occurrence, area of occupancy and extreme fluctuations in numbers or habitat. Abbreviated definitions of the IUCN categories used in the EPBC list are as follows:

**End**     **Endangered:** A taxon is Endangered when it is facing a very high risk of extinction in the wild in the near future.

**Ext**     **Extinct:** A taxon is Extinct when there is no reasonable doubt that the last individual has died.

**Vul**     **Vulnerable:** A Taxon is Vulnerable when it is not Endangered but is facing a high risk of extinction in the wild in the medium-term future.

#### **State Status: Threatened Wildlife of Victoria (TWV)**

**Cen**     **Critically Endangered:** A taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future.

**End**     **Endangered:** A taxon is Endangered when it is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future.

**Ext**     **Extinct:** A taxon is Extinct in Victoria when there is no reasonable doubt that the last individual has died.

**Ins**     **Data Deficient:** A taxon is Data Deficient when there is inadequate information to make a direct or indirect assessment of its risk of extinction based on its distribution or population status. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future investigation will show that a threatened classification is appropriate.

**LR**     **Lower Risk - near threatened:** A taxon is Lower Risk - near threatened when it has been evaluated, does not satisfy the criteria for any of the threatened categories, but which is close to qualifying for Vulnerable. In practice, these species are most likely to move into a threatened category should current declines continue or catastrophes befall the species.

Vul Vulnerable: A Taxon is Vulnerable when it is not Critically Endangered or Endangered but is facing a high risk of extinction in the wild in the medium-term future.

End Endangered: A taxon is Endangered when it is facing a very high risk of extinction in the wild in the near future.

Ext Extinct: A taxon is Extinct when there is no reasonable doubt that the last individual has died.

Vul Vulnerable: A Taxon is Vulnerable when it is not Endangered but is facing a high risk of extinction in the wild in the medium-term future.

R/R Rare

Ins Data Deficient: A taxon is Data Deficient when there is inadequate information to make a direct or indirect assessment of its risk of extinction based on its distribution or population status. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future investigation will show that a threatened classification is appropriate.

In practice, these threat categories may include species whose populations are beginning to recover as a result of remedial action, but whose recovery is insufficient to justify their transfer to another category.

### **Flora and Fauna Guarantee Act (FFG)**

L Listed: A taxon is listed under the *Flora and Fauna Guarantee Act 1988*).

### **Treaties**

C CAMBA: A taxon is listed under the China Australia Migratory Bird Agreement, a treaty for the "protection of migratory birds and their environment" between China and the Government of Australia.

J JAMBA: A taxon is listed under the Japan Australia Migratory Bird Agreement, a treaty for the protection of migratory birds and birds in danger of extinction and their environment" between Japan and the Government of Australia.

**APPENDIX 4**

Ocean and Shorebirds with a threatened status or subject to international treaties recorded in Bass Strait (ARI 1999)

Common Name	Scientific Name	National Status	State Status	Treaties
Arctic Jaeger	<i>Stercorarius parasiticus</i>			J
Asian Dowitcher	<i>Limnodromus semipalmatus</i>			CJ
Australasian Gannet	<i>Morus serrator</i>		Vul	
Baird's Sandpiper	<i>Calidris bairdii</i>			J
Bar-tailed Godwit	<i>Limosa lapponica</i>			CJ
Black-tailed Godwit	<i>Limosa limosa</i>			CJ
Blue Petrel	<i>Halobaena caerulea</i>	Vul		
Broad-billed Sandpiper	<i>Limicola falcinellus</i>			CJ
Brown Booby	<i>Sula leucogaster</i>			CJ
Cape Gannet	<i>Morus capensis</i>		CEn	
Caspian Tern	<i>Sterna caspia</i>		Vul	CJ
Common Diving-Petrel	<i>Pelecanoides urinatrix</i>		LR	
Common Greenshank	<i>Tringa nebularia</i>			CJ
Common Noddy	<i>Anous stolidus</i>			CJ
Common Tern	<i>Sterna hirundo</i>			CJ
Crested Tern	<i>Sterna bergii</i>		LR	
Curlew Sandpiper	<i>Calidris ferruginea</i>			CJ
Dunlin	<i>Calidris alpina</i>			C
Dusky Moorhen	<i>Numenius madagascariensis</i>		LR	CJ
Fairy Prion	<i>Pachyptila turtur</i>	Vul	LR	
Fairy Tern	<i>Sterna nereis</i>		Vul	
Flesh-footed Shearwater	<i>Puffinus carneipes</i>			J
Gould's Petrel	<i>Pterodroma leucoptera</i>	End		
Great Frigatebird	<i>Fregata minor</i>			CJ
Great Knot	<i>Calidris tenuirostris</i>			CJ
Greater Sand Plover	<i>Charadrius leschenaultii</i>			CJ
Grey Phalarope	<i>Phalaropus fulicaria</i>			CJ
Grey Plover	<i>Pluvialis squatarola</i>			CJ
Grey-headed Albatross	<i>Diomedea chrysostoma</i>	Vul		
Grey-tailed Tattler	<i>Heteroscelus brevipes</i>			CJ
Gull-billed Tern	<i>Sterna nilotica</i>		End	
Hooded Plover	<i>Thinornis rubricollis</i>	Vul	End	
Kelp Gull	<i>Larus dominicanus</i>		CEn	
Leach's Storm-Petrel	<i>Oceanodroma leucorhoa</i>			CJ
Lesser Frigatebird	<i>Fregata ariel</i>			CJ
Lesser Sand Plover	<i>Charadrius mongolus</i>			CJ
Little Curlew	<i>Numenius minutus</i>			CJ
Little Ringed Plover	<i>Charadrius dubius</i>			C
Little Tern	<i>Sterna albifrons</i>	End	Vul	CJ
Long-tailed Jaeger	<i>Stercorarius longicaudus</i>			J
Long-toed Stint	<i>Calidris subminuta</i>		Ins	CJ
Marsh Sandpiper	<i>Tringa stagnatilis</i>			CJ
Northern Giant-Petrel	<i>Macronectes halli</i>		End	
Oriental Plover	<i>Charadrius veredus</i>			J
Pacific Golden Plover	<i>Pluvialis fulva</i>			CJ
Pacific Gull	<i>Larus pacificus</i>		LR	

Marine National Parks and Sanctuaries – Natural Values Study

Pectoral Sandpiper	<i>Calidris melanotos</i>		Ins	J
Pomarine Jaeger	<i>Stercorarius pomarinus</i>		Ins	CJ
Providence Petrel	<i>Pterodroma solandri</i>			J
Red Knot	<i>Calidris canutus</i>			CJ
Red-necked Phalarope	<i>Phalaropus lobatus</i>			CJ
Red-necked Stint	<i>Calidris ruficollis</i>			CJ
Royal Albatross	<i>Diomedea epomophora</i>	Vul		
Ruddy Turnstone	<i>Arenaria interpres</i>			CJ
Ruff	<i>Philomachus pugnax</i>			CJ
Sanderling	<i>Calidris alba</i>			CJ
Sharp-tailed Sandpiper	<i>Calidris acuminata</i>			CJ
Short-tailed Shearwater	<i>Puffinus tenuirostris</i>			J
Shy Albatross	<i>Diomedea cauta</i>	Vul		
Soft-plumaged Petrel	<i>Pterodroma mollis</i>	Vul		
Sooty Albatross	<i>Phoebastria fusca</i>	Vul		
Sooty Oystercatcher	<i>Haematopus fuliginosus</i>			
Sooty Shearwater	<i>Puffinus griseus</i>			CJ
Southern Giant-Petrel	<i>Macronectes giganteus</i>		End	
Streaked Shearwater	<i>Calonectris leucomelas</i>			CJ
Terek Sandpiper	<i>Xenus cinereus</i>			CJ
Wandering Albatross	<i>Diomedea exulans</i>	Vul	CEn	J
Wedge-tailed Shearwater	<i>Puffinus pacificus</i>			J
Whimbrel	<i>Numenius phaeopus</i>			CJ
Whiskered Tern	<i>Chlidonias hybridus</i>		LR	
White-faced Storm-Petrel	<i>Pelagodroma marina</i>		Vul	
White-tailed Tropicbird	<i>Phaethon lepturus</i>			CJ
White-winged Black Tern	<i>Chlidonias leucopterus</i>			CJ
Wilson's Storm-Petrel	<i>Oceanites oceanicus</i>			J
Wood Sandpiper	<i>Tringa glareola</i>			CJ
Yellow-nosed Albatross	<i>Diomedea chlororhynchos</i>			

## APPENDIX 5

### Preliminary checklist of fishes from Gabo Island. October 2000.

Prepared by Dr Mark Norman and Dustin Marshall Department of Zoology University of Melbourne  
(? = tentative identification)

<b>Family Heterodontidae</b> <i>Heterodontus portusjacksoni</i>	Port Jackson Shark
<b>Family Orectolobidae</b> <i>Orectolobus maculatus</i>	Wobbegong
<b>Family Scyliorhinidae</b> <i>Asymbolus</i> sp. <i>Cephaloscyllium nascione</i>	Unidentified catshark Draughtboard Shark
<b>Family Myliobatidae</b> <i>Myliobatis australis</i>	Southern Eagle Ray
<b>Family Ophichthidae</b> <i>Ophisurus serpens</i>	Giant Snake Eel
<b>Family Moridae</b> <i>?Pseudophycis bachus</i>	Red Cod
<b>Family Hemiramphidae</b> <i>Hyporhamphus melanochir</i>	Southern Sea Garfish
<b>Family Scorpaenidae</b> <i>? Scorpaena papi/losa</i>	Red Rock Cod
<b>Family Plesiopidae</b> <i>Trachinops taeniatus</i>	Yellow Hulafish
<b>Family Dinolestidae</b> <i>Dinolestes lewini</i>	Longtin Pike
<b>Family Carangidae</b> <i>Pseudocaranx dentex</i> <i>Trachurus declivis</i>	White Trevally Jack Mackerel
<b>Family Mullidae</b> <i>Upeneichthys lineatus</i>	Blue-lined Goatfish
<b>Family Pempheridae</b> <i>Pempheris multiradiata</i>	Common Bullseye
<b>Family Scorpidae</b> <i>Scorpis aequipinnis</i> <i>Scorpis lineolata</i>	Sea Sweep Silver Sweep
<b>Family Kyphosidae</b> <i>Kyphosus sydneyanus</i>	Silver Drummer
<b>Family Girellidae</b> <i>Girella elevata</i> <i>Girella tricuspidata</i> <i>Girella zebra</i>	Black Drummer Luderick Zebra Fish Mado
<b>Family Microcanthidae</b> <i>Atypich thys strigatus</i>	
<b>Family Chironemidae</b> <i>Chironemus marmoratus</i>	Kelpfish

**Family Aplodactylidae**

*Aplodactylus arctidens*  
*Crinodus lophodon*

Southern Sea Carp  
Rock Cale

**Family Cheilodactylidae**

*Cheilodactylus fuscus*  
*Cheilodactylus nigripes*  
*Cheilodactylus spectabilis*  
*Nemadactylus douglasi*

Red Morwong  
Magpie (Morwong) Perch  
Banded Morwong  
Blue Morwong

**Family Latrididae**

*Latridopsis forsteri*

Bastard Trumpeter

**Family Pomacentridae**

*Parma microlepis*

White Ear

**Family Labridae**

*Achoerodus viridis*  
*Eupetrichthys angustipes*  
*Notolabrus fucicola*  
*? Notolabrus gymnogenis*  
*Notolabrus tetricus*  
*Ophthalmolepis lineolata*  
*Pictilabrus laticlavus*

Eastern Blue Groper  
Snakeskin Wrasse  
Saddled Wrasse  
Crimson Banded Wrasse  
Bluethroat Wrasse  
Maori Wrasse  
Senator Wrasse

**Family Odacidae**

*Odax acroptilus*  
*Odax cyanomelas*

Rainbow Cale  
Herring Gale

**Family Monacanthidae**

*Eubalichthys bucephalus*  
*Meuschenia flavolineata*  
*Meuschenia freycineti*

Black Reef Leatherjacket  
Yellowstriped Leatherjacket  
Sixspined Leatherjacket

**Family Tetraodontidae**

*Tetractenos hamiltoni*

Common Toadfish

**Family Diodontidae**

*Dicotylichthys punctulatus*  
*Diodon nichthemerus*

Three-bar Porcupinefish  
Globefish

## APPENDIX 6

### Preliminary checklist of marine invertebrates from Gabo Island. October 2000.

Prepared by Dustin Marshall and Dr Mark Norman Department of Zoology University of Melbourne

#### **PHYLUM CNIDARIA**

##### Class Scyphozoa

##### **Order Semaestomae**

*Cyanea capillata* Lion's Mane Jellyfish

##### Class Hydrozoa

##### **Order Hydroida**

*Aequorea eurhodina* (moderate-size pale blue jellyfish)

*Turritopsis nutricula* (small pink jellyfish)

##### Class Anthozoa

##### **Order Actiniaria**

*Actinia tenebrosa* Waratah Anemone

*Anthothoe albocincta* (green and white striped anemone)

*Aulactinia veratra* (intertidal green anemone)

*Oulactis muscosa* Magpie Anemone

*Phlyctenactis tuberculosa* Wandering Anemone

##### **Order Corallimorpharia**

*Corynactis australis* Jewel Anemone

##### **Order Alcyonacea**

*Erythropodium hicksoni* (sheet soft coral)

#### **PHYLUM PLATYHELMINTHES**

*Thysanozoon* sp. (rough flatworm)

#### **PHYLUM ANNELIDA**

##### **Family Serpulidae**

*Galealaria caespitasa* Sydney Tube Coral

#### **PHYLUM ARTHROPODA**

##### **SUBPHYLUM CRUSTACEA**

##### Class Cirripedia

*Lepas australis* Gooseneck Barnacle

*Catomeras polymerus* (abundant barnacle)

*Tetraclitella purpurascens* (ribbed barnacle)

*Austromegabalanus nigrescens* Surf Barnacle

##### Class Malacostraca

##### **Order Decapoda**

##### **Family Rhynchocinetidae**

*Rhynchocinetes rugulosus* (blue-striped hinge-back shrimp)

##### **Family Palinuridae**

*Jasus verreauxi* Eastern Rock Lobster

##### **Family Portunidae**

*Ovalipes australiensis* Surf Crab

##### **Family Grapsidae**

*Cyclograpsus* sp. (shore crab)

#### **PHYLUM MOLLUSCA**

##### Class Polyplacophora

*Rhyssoplax calliozona* (chiton)

##### Class Gastropoda

##### **Family Haliotidae**

*Haliotis rubra* Blacklip Abalone

*Haliotis laevigata* Greenlip Abalone

##### **Family Fissurellidae**

*Scutus antipodes* Elephant Snail

<b>Family Patellidae</b> <i>Cellana tramoserica</i>	(large limpet)
<b>Family Trochidae</b> <i>Austrocochlea odontis</i>	(checked top shell)
<b>Family Neritidae</b> <i>Nerita atramentosa</i>	(black nerite)
<b>Family Muricidae</b> <i>Dicathais orbita</i> <i>Lepsiella vinosa</i>	Dog Winkle or Cartrut Shell (intertidal whelk)
<u>Class Bivalvia</u> <b>Family Mytilidae</b> <i>Mytilus edulis</i>	Blue Mussel
<u>Class Cephalopoda</u> <b>Family Sepiidae</b> <i>Sepia apama</i>	Giant Cuttlefish
<b>Family Loliginidae</b> <i>Sepioteuthis australis</i>	Southern Calamari Squid
<b>Family Argonautidae</b> <i>Argonauta argo</i> <i>Argonauta nodosa</i>	Greater Argonaut Knobbed Argonaut
<b>Family Octopodidae</b> <i>Octopus kaurna</i> <i>Octopus tetricus</i>	Southern Sand Octopus Common Sydney Octopus
<b>PHYLUM BRYOZOA</b> <i>Membranipora membranacea</i> <i>Tryphyllozoon moniliferum</i> <i>Celloporaria</i> sp.	(kelp bryozoan) Lace Bryozoan (purple or orange encrusting bryozoan)
<b>PHYLUM ECHINODERMATA</b> <u>Class Asteroidea</u> <i>Patriella exigua</i>	(little green sea star)
<u>Class Echinoidea</u> <i>Centrostephanus rogersii</i> <i>Helicidaris erythrogramma</i>	(common black sea urchin) (common pale sea urchin)
<b>PHYLUM CHORDATA</b> <u>Class Ascidiacea</u> <i>Pyura gibbosa</i> <i>Pyura stolonifera</i> <i>Amphicarpa meridiana</i> <i>Botrylloides leachi</i> <i>Clavelina</i> sp. <i>Herdmania momus</i>	Sea Tulip Cunjevoi (brown-grey colonial sea squirt) (brilliant blue and yellow colonial sea squirt) (transparent small colonial sea squirt with few dark blue spots) (large subtidal sea squirt)