Protected Species ID Guide









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- Commonwealth Scientific and Industrial Research Organisation
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This guide has been compiled by Kathy Colgan of K Colgan and Associates.

Introduction

All the native species described in this guide are protected in Australia. This guide is for Commonwealth fishers to use when reporting protected species interactions to enable accurate identification of the species. This guide covers the range of protected species which fishers do or have the potential to interact with.

Protected species are an integral part of the ecosystems that support fisheries. Removing any part of an ecosystem can have severe consequences and can have implications for the fishery and its management if it is deemed to be occurring at an unacceptable level. AFMA, industry and scientists are working to minimise interactions with protected species in Commonwealth fisheries.

With AFMA's implementation of an ecosystem based approach to fisheries management, increased focus is being directed at reducing bycatch, a fundamental part being accurate reporting of protected species interactions.

As long as operators are fishing in accordance with their fishery's accredited management arrangements, it is not

an offence to interact with a protected species even if the animal dies. However, it is an offence not to report these interactions to DEH or AFMA.

Operators must report all interactions with protected species. An interaction is any contact operators and their fishing gear has with a protected species, including hooking it on a line, catching it in a net or even a collision with a boat.

All operators need to do is fill out the listed marine and threatened species form (or Wildlife reporting form) in your logbook and then submit it to AFMA. Under agreed reporting arrangements, AFMA will report interactions to DEH on the operator's behalf, by fishery, through periodic summary reports of interactions.

Under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act), animals that are classified as protected. These are divided into four different categories – threatened species, migratory species, marine species and all cetaceans.

For further information contact AFMA on 1300 723 621

Birds

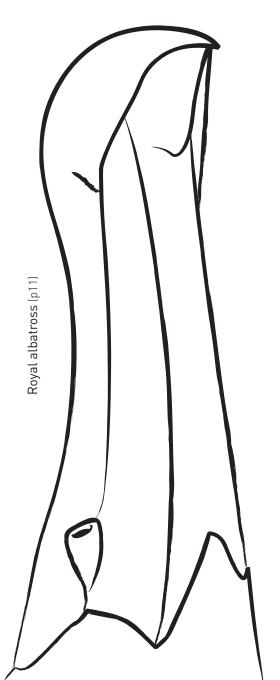
Albatrosses		
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Bill Guide

After Simpson & Day (1995), inside front and back cover Westland petrel (p22) After Slater (1970), p189-197 White-chinned petrel (p23) Wandering albatross (p12) Cape petrel (p20)

Bill Guide

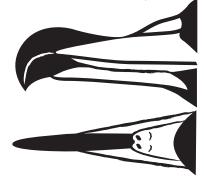
After Simpson & Day (1995), inside front and back cover After Slater (1970), p189-197



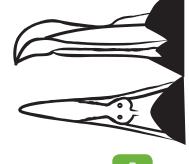
Great-winged petrel (p21)



Flesh-footed shearwater (p25)



Wedge-tailed shearwater (p27)

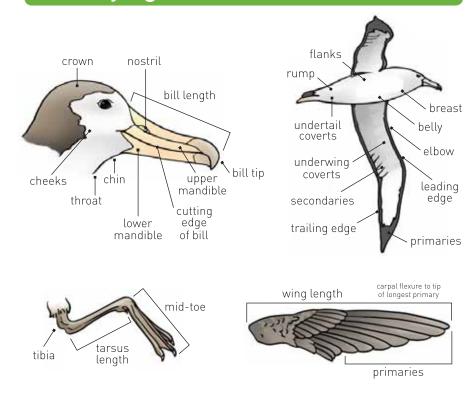


Bill Guide

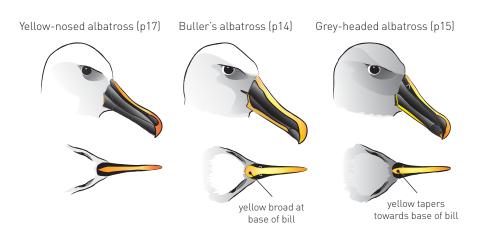
After Simpson & Day (1995), inside front and back cover After Slater (1970), p189-197 Giant petrel (p18,19) Black-browed albatross (p13) Buller's albatross (p14) Short-tailed shearwater (p26) storm petrel (p24) Wilson's

Bill Guide After Simpson & Day (1995), inside front and back cover After Slater (1970), p189-197 Grey-headed albatross (p15) Yellow-nosed albatross (p17) Shy albatross (p16) Yellow-nosed albatross **Grey-headed albatross** Shy albatross

Identifying Features of Albatross



After Onley & Bartle (1999), p19



After Onley & Bartle (1999), p35

Royal Albatross







Royal albatross Diomedea spp.

CAAB No: 40040005 FAO Code: DIP

- Very large birds
- Horn-coloured bills with a thin black line on the cutting edge
- Body, head and tail are white with variable dark spots on the crown, back and tip of tail
- Northern Royal has all black underwing
- Southern Royal upperwing gets whiter with age
- No black band on tip of tail, unlike Wandering albatross
- Length: 110 120cm, Wingspan: 320 340cm
- Similar species: Wandering and Amsterdam albatrosses

Wandering Albatross







Wandering albatross Diomedea exulans

CAAB No: 40040006 FAO Code: DIX



- Plain pink bill
- Plumage variable: become whiter with age; most retain brown crowns and a few dark tail feathers
- Even the palest birds usually have fine, grey, wavy lines on the white feathers
- Black band on tip of tail, unlike Royal albatross
- Juveniles are dark brown with white face, throat and underwing
- Length: 110 120cm, Wingspan: 320 340cm
- Similar species: Royal and Amsterdam albatrosses

Black-browed Albatross







Black-browed albatross

Thalassarche melanophrys / impavida

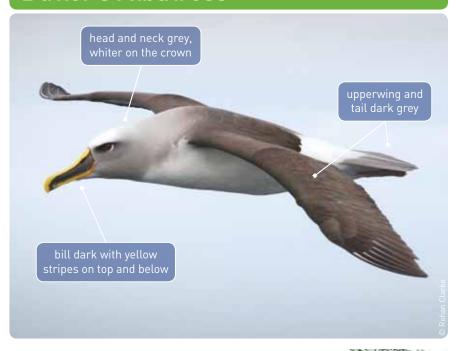
CAAB No: 40040007 FAO Code: DIM



- Head white with black patch around eyes
- Upperwing and uppertail black or brownish-black
- Underwing white with wide black margins
- Length: 85 90cm, Wingspan: 220 230cm
- Similar species: Grey-headed, Buller's and Yellow-nosed albatrosses
- New Zealand birds (impavida) have white eye, remaining birds (melanophrys) have black eye



Buller's Albatross







Buller's albatross Thalassarche bulleri

CAAB No: 40040001 FAO Code: DIB



- Broad yellow stripe on top of bill, rounded at base
- Head and neck grey, whiter on the crown
- Body white
- Upperwing and uppertail dark grey-brown
- Underwing white with clear black margins
- Length: 75 80cm, Wingspan: 205 215cm
- Similar species: Grey-headed, Salvin's and Yellow-nosed albatrosses

Grey-headed Albatross







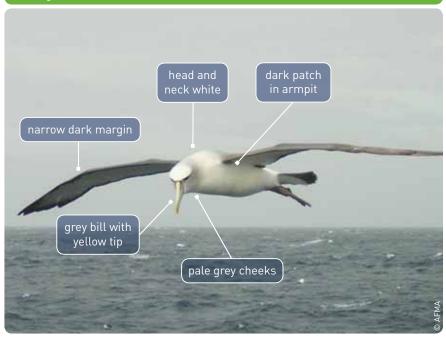
Grey-headed albatross *Thalassarche chrysostoma*

CAAB No: 40040004 FAO Code: DIC



- Bill dark with yellow stripes on top and below
- Stripe on top of bill tapers towards the base
- Head and neck grey no white cap
- Body white
- Upperwing and uppertail dark grey-brown
- Underwing white with smudgy black margins
- Length: 80 85cm, Wingspan: 215 225cm
- Similar species: Buller's, Yellow-nosed and Black-browed albatrosses

Shy Albatross







Shy albatross *Diomedea cauta*

CAAB No: 40040002 FAO Code: DCV



- Adults have a pale grey bill with a light yellow tip often with a dark smudge on the tip of the lower mandible
- Adults have a white head and neck with a pale grey wash on the cheeks
- Underparts white, underwing white with narrow dark margin and dark thumbprint under arm
- Juveniles have dark grey bills with blackish tips, grey necks and heads with whitish caps and a greyish collar
- Length: 95- 105cm, Wingspan: 250 260cm

Yellow-nosed Albatross







Yellow-nosed albatross Diomedea chlororhynchos/

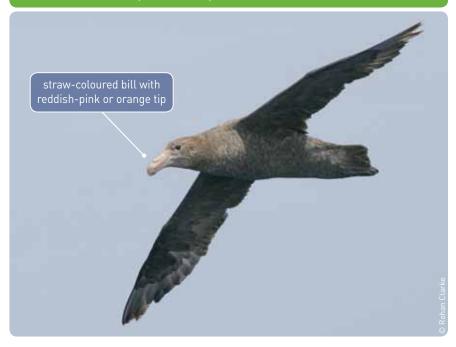
bassi

CAAB No: 40040003 FAO Code: DCR



- Black bill with yellow stripe on top only
- Indian Ocean bird (chlororhynchos) has white head
- Atlantic Ocean bird (bassi) has light grey head and neck which becomes whiter as feathers wear
- Black patch in front of eyes
- Body white, upperwing and uppertail grey-brown
- Underwing white with narrow black margins
- Length: 70 80cm, Wingspan: 200 210cm
- Similar species: Buller's, Grey-headed, Salvin's and Black-browed albatrosses

Northern (Hall's) Giant Petrel







Northern (Hall's) giant petrel

Macronectes halli

CAAB No: 40041008 FAO Code: MAH

- Large, straw-coloured bill, tipped reddish-pink or orange with a large single nostril-tube on top
- Adults have a dark crown, whitish face and throat
- Eyes pale grey
- Immature birds are a sooty-brown colour with dark brown eyes
- Much larger than other petrels and similar in size to a small albatross
- Length: 85 95cm, Wingspan: 160 200cm
- Similar species: Southern giant petrel and Sooty albatross

Southern Giant Petrel

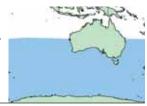






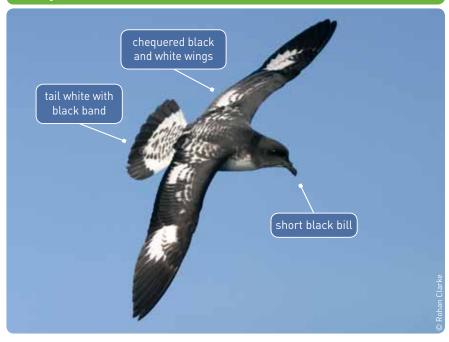
Southern giant petrel *Macronectes giganteus*

CAAB No: 40041007 FAO Code: MAI



- Largest petrel
- Large straw-coloured bill, greenish tip with a large single nostril-tube on top
- Adults are grey-brown with head, neck and breast mottled whitish
- Eyes pale grey
- Juveniles blackish-brown, with dark brown eyes
- 3% of the population are white with some dark feathers
- Length: 85 90cm, Wingspan: 190 200cm
- Similar species: Northern giant petrel and Sooty albatross

Cape Petrel





Cape petrel
Daption capense

CAAB No: 40041003 FAO Code: DAC



- Black and white petrel
- Bill black and short
- White underwings with narrow black margins
- Back wings and rump chequered black and white
- Tail white with a black band at the end
- Length: 35 40cm, Wingspan: 85 90cm
- Similar species: Antarctic petrel

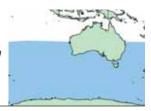
Great-winged Petrel





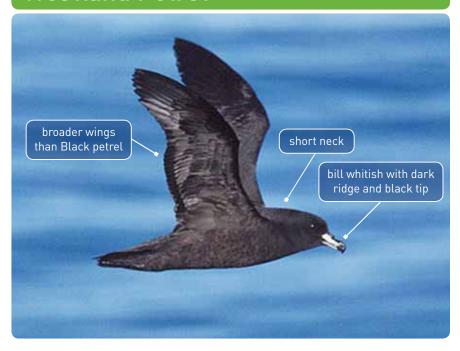
Great-winged petrel *Pterodroma macroptera*

CAAB No: 40041031 FAO Code: PDM



- Large, dark brown petrel
- Often with a pale patch around the black bill
- Short neck
- Long wings
- Can be confused with White-chinned petrel, but identifiable by bill colour
- Length: 40 45cm, Wingspan: 95 100cm
- Similar species: Sooty and Short-tailed shearwaters, White-chinned and Providence petrels

Westland Petrel





Westland petrel Procellaria westlandica

CAAB No: 40041021 FAO Code: PCW



- Bill whitish to yellow horn with dark ridge and cutting edge and dark tip
- Very similar to the Black petrel but larger, longer billed, short necked with broader wings
- Dark legs and black feet
- Is sometimes confused with the White-chinned petrel: White-chinned petrel has a pale, not a black tip to bill
- Length: 50 55cm, Wingspan: 135 140cm
- Similar species: White-chinned, Black and Greatwinged petrels and Flesh-footed shearwater

White-chinned Petrel





White-chinned petrel Procellaria aequinoctialis

CAAB No: 40041018 FAO Code: PRO



- Large blackish-brown petrel with pale bill and in some birds a small white patch on the chin
- Longish pale bill can be whitish, bluish, yellowish or greenish with a strongly hooked tip
- Underwing brown
- Black feet
- Can be confused with Great-winged petrel, but distinguishable by bill colour
- Length: 50 55cm, Wingspan: 135 140cm
- Similar species: Westland and Black petrels and Flesh-footed shearwater

Wilson's Storm Petrel





Wilson's storm petrel
Oceanites oceanus

CAAB No: 40042004 FAO Code: OCO



- Sooty black in colour
- Distinctive white rump
- Wings rounded
- Pale greyish crescent on the upper wing
- Long black legs and feet with yellow webs
- Very small compared to other petrels
- Length: 15 20cm, Wingspan: 38 43cm
- Similar species: other small storm petrels

Flesh-footed Shearwater





Flesh-footed shearwater Puffinus carneipes

CAAB No: 40041038 FAO Code: PFC



- Large, pale, flesh-coloured bill with blackish tip
- Large head, robust, blackish-brown
- Brown underwing
- Tail short, either square or weakly wedgeshaped
- Legs and feet pale pink
- Length: 40 45cm, Wingspan: 100 110cm
- Similar species: Wedge-tailed shearwater, White-chinned, Westland and Parkinson's petrels

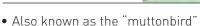
Short-tailed Shearwater





Short-tailed shearwater Puffinus tenuirostris

CAAB No: 40041047 FAO Code: PFT



- Also known as the muttonbild
- Bill slender and shorter than 3.5cm
- Dark smoky-brown with a paler throat
- Some have whitish underwing
- Tail short and rounded
- Often seen in huge groups of tens of thousands
- Length: 40 45cm, Wingspan: 95 100cm
- Similar species: Sooty, Flesh-footed and Wedge-tailed shearwaters

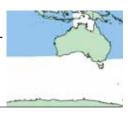
Wedge-tailed Shearwater





Wedge-tailed shearwater *Puffinus pacificus*

CAAB No: 40041045 FAO Code: PFZ



- Also known as the "muttonbird"
- Bill usually dark grey, some can have a pale horn with a black tip
- Has broad wings and flies close to the water
- Longish wedge-shaped tail, looks pointed in flight
- Feet flesh-coloured and do not extend beyond the tail in flight
- Length: 40 45cm, Wingspan: 100 105cm
- Similar species: Flesh-footed shearwater

Boobies





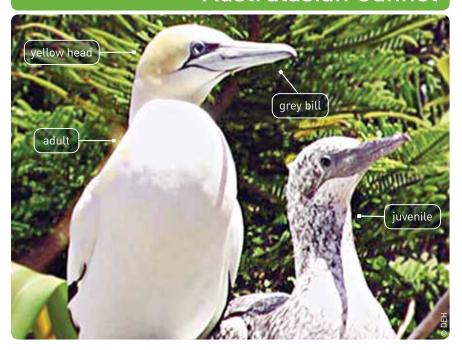


Boobies Sulidae CAAB No: 40047000



- Masked booby: white with dark brown flight feathers, bill yellow in males and dull greenyellow in females, eyes yellow, feet blue-grey or blue-green, length 74 - 86cm, wingspan 152 - 170cm
- Red-footed booby: distinguished by feet which vary in colour from flesh-pink to cherry-red, length 65 - 80cm, wingspan 140 - 152cm
- Brown booby: brown with white belly and underwing, length 65 75cm, wingspan 140 145cm

Australasian Gannet







Australasian gannet

CAAB No: 40047002 FAO Code: MVR



- Straight-billed birds that dive into the sea
- Grey bill
- Head yellow
- Adult body white
- Short black stripe in centre of throat
- Black feet, green on toes
- Juvenile body grey-brown
- Length: 80 85cm, Wingspan: 165 175cm

Frigatebirds





Frigatebirds Fregatidae CAAB No: 40050000



- strongly hooked at the tip
- Adult male has a red throat pouch that resembles a balloon when inflated
- Great frigatebird: mainly black, males have grey bill, black eye-ring and dull pink feet; females have dull pink bill, red eye-ring, length 85 - 100cm, wingspan 200 - 250cm
- Lesser frigatebird: similar to the Great frigatebird and have a small patch of white on the underwing, length 70 - 85cm, wingspan 180 - 190cm

Cormorants



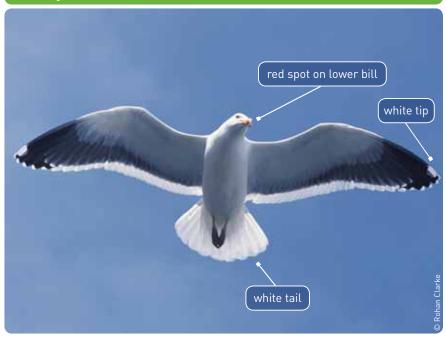


Cormorants Subfamily Phalacrocoracinae

CAAB No: 40048000

- Great (Black) cormorant: largest cormorant, dark horn, hooked bill, yellow throat pouch and face, length 70 95cm, wingspan 130 150cm
- Little black cormorant: small black body, dark grey slender bill, length 58 - 65cm, wingspan 80 - 100cm
- Black-faced cormorant: distinctive white breast, dark grey bill, black throat pouch and face, length 60 70cm, wingspan 100 110cm
- Pied cormorant: white breast, slender pale hooked bill, length 65 80cm, wingspan 120 150cm
- Little pied cormorant: stubby yellow-sided bill, white eyebrow extends to side of neck, length 55 - 65cm, wingspan 80 - 85cm

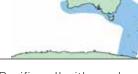
Kelp Gull





Kelp gull Larus dominicanus

CAAB No: 40128012 FAO Code: LDO



- Bill thinner than the Pacific gull with a red spot on the lower bill
- Body white
- White tips and spots on primary feathers
- Tail all white
- Legs green-grey to yellowish
- Juveniles are dark brown with a black beak
- Length: 55 60cm, Wingspan: 125 140cm
- Similar species: Pacific gull

Pacific Gull





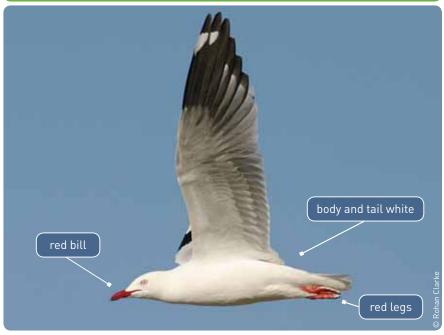
Pacific gull Larus pacificus

CAAB No: 40128014



- Thick yellow bill with a scarlet tip
- Body white
- Black upperwings and wingtips
- Tail white with a black horizontal band across it
- Yellow legs
- Juveniles are dark brown with a black beak
- Length: 55 70cm, Wingspan: 130 150cm
- Similar species: Kelp gull

Silver Gull





Silver gull Larus novaehollandiae CAAB No: 40128013



- Familiar Australian seagull
- Bill red
- Eyes white
- Body white with silver-grey upperwings
- Tail white
- Legs red
- Juveniles have black eyes, bill and legs with mottled brown upperwings
- Length: 35 45cm, Wingspan: 90 95cm
- Similar species: Black-billed gull from New Zealand

Antarctic (Great) Skua



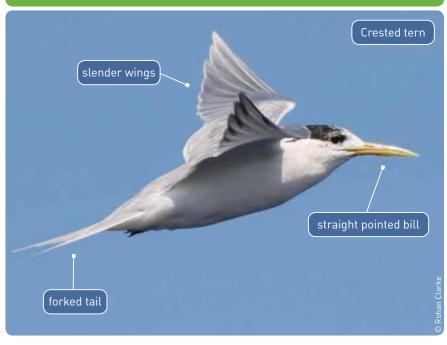


Antarctic (Great) skua Catharacta antarctica CAAB No: 40128004



- Similar in shape to a stout brown gull with a hooked black bill
- Head and body brown with variation in colour depending on when moulting has occurred; dark brown just after moult and paler with wear
- Wings broad with a large white patch
- Juveniles are darker brown, sometimes mottled with smaller white wing patches
- Length: 60 65cm, Wingspan: 145 150cm
- Similar species: South Polar skua

Terns





Terns
Laridae
CAAB No: 40128000



- Australia has 22 species of terns and noddies
- Terns are related to gulls but have straighter, more pointed bills, slender wings and more fragile legs
- Many terns have blackish bills in nonbreeding plumage, some becoming red in breeding plumage
- All are middle sized and white bellied in nonbreeding plumage and grey, white or pinkish in breeding plumage

Noddies





Noddies Laridae

CAAB No: 40128000



- A distinct group of terns; dark with pale caps
- Broader wings than other terns
- Tail broad and rounded with a notch
- Feet and legs more robust than other terns
- Generally tropical

Australian Pelican







Australian pelican Pelicanus conspicillatus CAAB No: 040046000



- and a pink throat pouch
- Long neck
- Black upperwing with white patch
- White underwing
- Tail white with black tip
- Short legs
- In juveniles the parts of the bird that will become black appear brown
- Length: 165 170cm, Wingspan: 250 260cm

Penguins







Penguins *Spheniscidae*



- Flightless southern hemisphere marine birds
- Readily recognised by their distinctive features
- All penguins have dark backs and white fronts
- Large webbed feet set far back on the body to enable them to walk upright
- Penguins feed underwater
- With the exception of the Little penguin, all species are rare around mainland Australia

Antarctic Prion





Antarctic prion
Pachyptila desolata
CAAB No: 40041011



- Grey crown
- Broad, white eyebrow emphasised by dark grey line through the eye, curving down the neck
- "M" band on the wing
- White sides to the head
- Very similar to other prions which differ mostly in the size and shape of their bills
- There are 5 other related species in the prion group
- Length: 25 30cm, Wingspan: 60 65cm

Tropicbirds







Tropicbirds *Phaethontidae*

CAAB No: 40045000



- Two species of Tropicbird occur: Red-tailed and White-tailed
- Red-tailed: the larger of the tropicbirds, body and wings white, sometimes with pink colouration, robust red bill, tail mainly white with two distinctive ribbon-like plumes, length 75 80cm, wingspan 105 110cm
- White-tailed: the smaller of the tropicbirds, yellow bill, black patch on white wing, longer white tail streamers, larger black comma-shaped eyebrow, length 75 80cm, wingspan 90 95cm

Mammals

Cetaceans (whales, dolphins, porpoises)

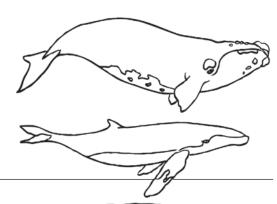
	Baleen Whales		
	Southern right whale	Eubalaena australis	46
	Humpback whale	Megaptera novaeangliae	47
	Toothed Whales		
	False killer whale	Pseudorca crassidens	48
	Killer whale	Orcinus orca	49
	Long-finned pilot whale	Globiocephala melas	50
	Short-finned pilot whale	Globiocephala macrohynchus	51
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	Leopard seal	Hydrurga leptonyx	63

Relative Sizes of Cetaceans

Baleen whales

Southern right whale (p46) up to 16m

Humpback whale (p47) up to 15m



Toothed whales

Sperm whale (p52) 11 - 18m

Killer whale (p49) 5.5 - 9.8m

Long-finned pilot whale (p50) 3.8 - 6m

False killer whale (p48) 4.3 - 6m

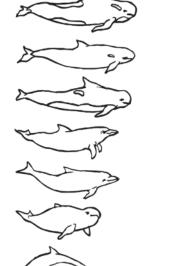
Short-finned pilot whale (p51) 3.6 - 6.5m

Bottlenose dolphin (p54) 1.9 - 3.9m

Indo-Pacific humpback dolphin (p55) 2 - 2.8m

> Snubfin dolphin (p56) 2.1 - 2.6m

Common dolphin (p53) 1.7 - 2.4m



Baleen and Toothed Whales



Baleen whales Mysticeti

- Whales with baleen plates instead of teeth
- Tail: broad flukes with distinct notch in the middle
- Some have callosites growths above the eye, by the blowhole and on the chin



Toothed whales

- Teeth
- Number of teeth vary from 2-250
- Single blowhole
- Except for the Sperm whale, toothed whales are smaller than most baleen whales
- Most toothed whales can swim quickly

Southern Right Whale



Southern right whale

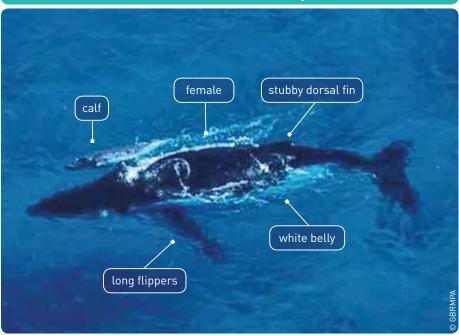
Eubalaena australis

CAAB No: 41110001 FAO Code: EUA



- Adults mainly black
- Large head with barnacle-like callosites
- Strongly arched mouth
- Blow is u-shaped
- Prominent splash guard
- Large, round body with no fin on back
- Paddle-shaped small flippers
- Black underneath tail
- Smooth trailing edges of fluke
- Adults grow up to 16m

Humpback Whale





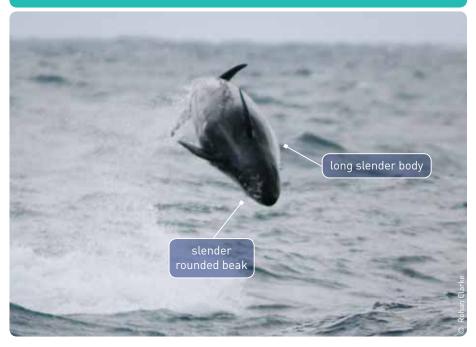
Humpback whale Megaptera novaeangliae

CAAB No: 41112006 FAO Code: HUW



- Head and flippers can have protuberances which make them look knobbly
- The blow is tall and bushy, wide relative to height
- Large stocky body with back and sides black or dark grey, belly usually white
- Low, stubby dorsal fin with hump
- Very long flippers, black on top and white on the underside
- Irregular, wavy edges on flukes (tail)
- Black and white underneath fluke
- Adults grow up to 15m

False Killer Whale







False killer whale Pseudorca crassidens

CAAB No: 41116013 FAO Code: FAW



- Uniform dark body colour
- Long slim body with slender and rounded beak
- Prominent dorsal fin with rounded tip
- Distinguishable "elbow" on flippers
- Can also occur with other cetaceans such as Bottlenose dolphins
- Often occurs in groups
- Adults grow up to 6m

Killer Whale





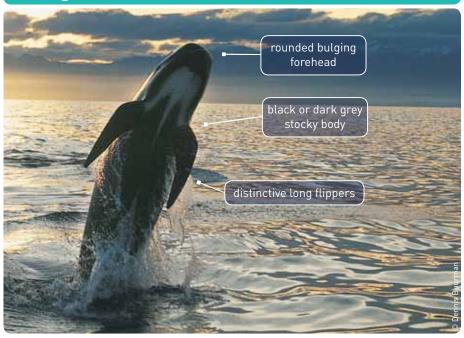


Killer whale Orcinus orca CAAB No: 41116011 FAO Code: KIW



- Clearly visible black and white pattern
- Robust, heavy body
- White patch behind each eye
- Dorsal fin very tall and triangular in adult males, smaller and swept back in females
- Grey saddle-patch behind the dorsal fin
- Large, paddle-shaped flippers
- Usually in groups
- Adults grow up to 10m

Long-Finned Pilot Whale





Long-finned pilot whale Globicephala melas

CAAB No: 41116004 FAO Code: PIW



- Black or dark grey
- Rounded, bulging forehead
- Dorsal fin sweeps backwards
- Often has a grey patch behind the dorsal fin
- Stocky but elongated body
- Distinctive very long flippers
- Often occurs in small groups of 10-50 animals, occasionally in large groups of up to 1000 or more
- Adults grow up to 7m

Short-Finned Pilot Whale



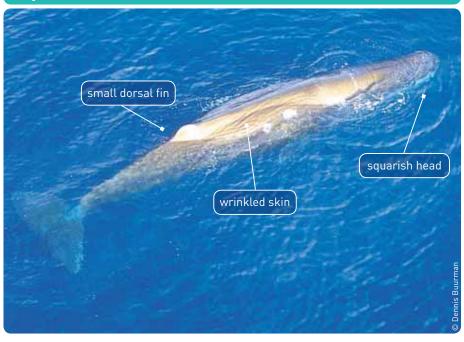
Short-finned pilot whale Globicephala macrorhynchus

CAAB No: 41116003 FAO Code: SHW



- Black or dark grey in colour
- Stocky but elongated body with bulging forehead
- Dorsal fin sweeps backwards
- The grey saddle-shaped marking behind the dorsal fin is not always present
- Similar to Long-finned pilot whale with shorter, slender, sickle-shaped flippers
- Occurs in groups of up to 30 animals, occasionally in very large groups of several hundred
- Found in tropical and temperate waters
- Adults grow up to 6m

Sperm Whale







Sperm whale *Physeter macrocephalus*

CAAB No: 41119003 FAO Code: SPW



- Squarish head
- Dark grey but can look reddish-brown in sunlight
- Small dorsal fin which can look more like a hump
- Bumps along the back between dorsal fin and tail
- Single blow hole on the left side of the snout
- Distinctive wrinkled skin
- Broad flukes (tail) raised on diving
- Can be found in groups
- Often motionless at surface, dives for long periods
- Adults grow up to 18m

Common Dolphin





Common dolphin *Delphinus delphis*

CAAB No: 41116001 FAO Code: DCO



- Dorsal surface of head, back and dorsal fin dark
- Prominent fin and beak
- Distinctive figure of eight pattern on sides
- White underside and lower sides
- Yellowish-tan patch on sides
- Dark line from flipper to beak or rostrum
- Very active, usually in large pods
- Adults grow up to 2m

Bottlenose Dolphin

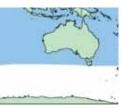




Bottlenose dolphin

Tursiops aduncus/T. truncatus

CAAB No: 41116019 FAO Code: DBO



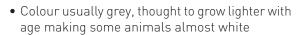
- Dark or light grey in colour
- Distinct beak with a sharp crease between the beak and forehead
- Rounded forehead
- Prominent dorsal fin sickle-shaped and curved backwards
- Usually seen in small groups
- Often bow-rides
- Adults grow up to 3.5m

Indo-Pacific Humpback Dolphin



Indo-Pacific humpback dolphin Sousa chinensis

CAAB No: 41116014 FAO Code: PHI



- Long slender beak
- Robust body
- Small fin sits on elongated hump
- Mostly comes to the surface only to breathe
- Usually occurs in small groups of 1-6
- Found in coastal waters
- Adults grow up to 3m



Snubfin Dolphin



Snubfin dolphin Orcaella heinsohni

CAAB No: 41116010 FAO Code: IRD



- Body often pale grey
- Distinctive large rounded melon (forehead) which overlaps the mouth
- Small dorsal fin with blunt, rounded tip
- Long, broad spatulate flippers
- Short dives
- Slow swimmer
- Found in coastal waters
- Adults grow up to 2.7m
- Previously known as the Irrawaddy dolphin

Dugong





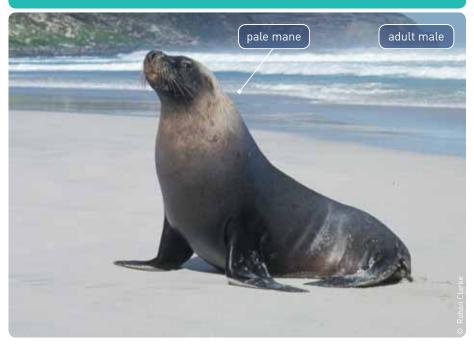


Dugong Dugong dugon CAAB No: 41206001 FAO Code: DUG



- Grey to bronze above
- Broad, rounded upper lip with bristles
- No dorsal fin
- Almost white on the underside
- Paddle-like forelimbs
- Flattened fluked tail
- Up to 3m in length
- Feed on aquatic vegetation and are found primarily in seagrass beds, in shallow coastal water and estuaries

Australian Sea Lion





Australian sea lion Neophoca cinerea CAAB No: 41131005



- Both sexes have stocky bodies, a large head and short narrow flippers
- Male is dark brown with pale coloured mane on the back of the neck
- Adult males up to twice the weight and length of females
- Females are silver-grey to fawn on the back and creamy coloured underneath
- Juveniles have a similar colouration to females

Australian Fur Seal







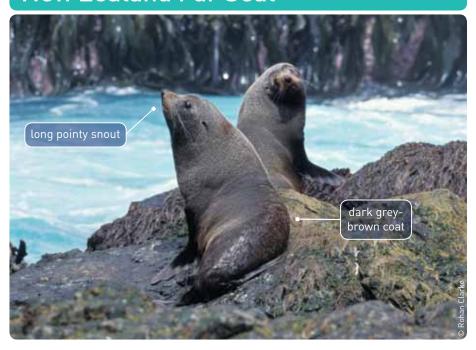
Australian fur seal Arctocephalus pusillus

CAAB No: 41131003 FAO Code: SEK



- head smaller and narrower
- Rounded snout (dog-like) and long backward sweeping facial whiskers
- Robust body covered in thick, brown layered hair, except on the front and back flippers
- Mature males carry a dark mane of coarse hair
- Dark grey-brown coat, adult females are paler on underside especially on throat and chest

New Zealand Fur Seal







New Zealand fur seal Arctocephalus forsteri

CAAB No: 41131001 FAO Code: SNZ

- Males reach 2.5m in length and may weigh 185kg
- Females reach 1.5m in length and may weigh 70kg
- Coat is dark grey-brown, paler on the under surface
- Adult males have a long upwards pointy snout with a conspicuous black tip
- Oar-shaped front flippers
- Fur colour when dry: males uniform dark grey to brown with pale muzzle; females brown to dark brown with greyish tones and a lighter brown muzzle

Sub-Antarctic Fur Seal







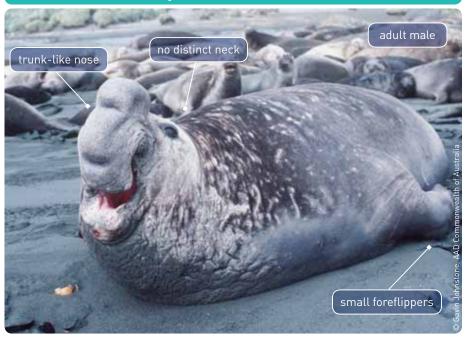
Sub-Antarctic fur seal *Arctocephalus tropicalis*

CAAB No: 41131004 FAO Code: SSF



- Similar to the New Zealand fur seal but has a two-tone coat
- Adult males have a tuft on the forehead
- Flippers short and broad
- Uncommon in Australian waters

Southern Elephant Seal





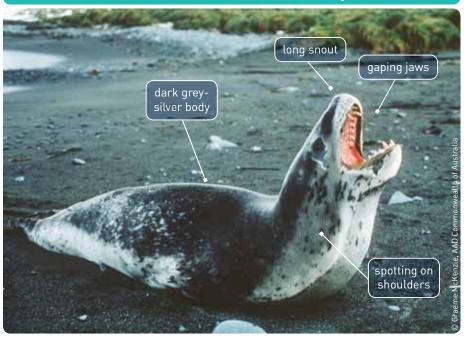


Southern elephant seal *Mirounga leonina*

CAAB No: 41136004 FAO Code: SES

- Dark grey or brown
- Large distinctive nose in males, especially mature males which have a trunk-like proboscis
- No obvious neck separating head from body in well-fed animals
- Largest species of seal: adult males can reach 4-5m in length, females 2-3m

Leopard Seal







Leopard seal *Hydrurga leptonyx*

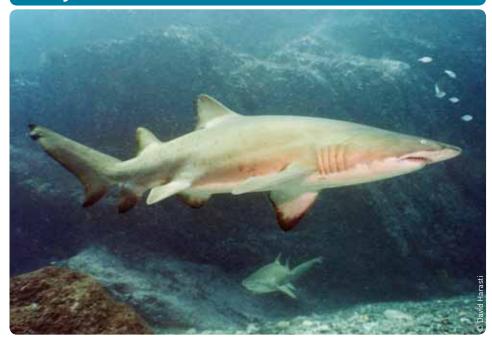
CAAB No: 41136001 FAO Code: SLP

- Large head, long snout and gaping jaws, giving the animal a reptilian appearance
- Long body, dark grey to silver with darker grey flippers and spotting on the shoulder area, throat and sides
- Member of the 'true seal' group, whose locomotion on land is a wriggling action a series of muscular body ripples

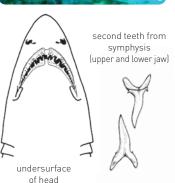
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Grey Nurse Shark







Grey nurse shark *Carcharias taurus*

CAAB No: 37008001 FAO Code: CCT



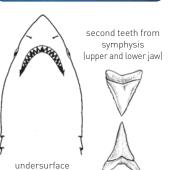
- Large stout body, coloured grey to grey-brown dorsally, with a paler off-white underbelly
- Cone-shaped snout
- May have reddish or brownish spots on tail fin and posterior half of body, particularly in juveniles
- Similarly sized first and second dorsal fins and an asymmetrical tail fin
- Adults grow to at least 3.6m

Line illustrations (underside of head and teeth) by Georgina Davis from Last, P.R. & Stevens, J.D. (1994)

Great White Shark







of head

Great white shark *Carcharodon carcharias*

CAAB No: 37010003 FAO Code: WSH



- Coloured blue-grey to grey-brown on the upper surface and white below
- Large serrated triangular teeth
- Moderately stout, torpedo-shaped body
- A distinctive lateral keel along the body midline immediately before a crescent-shaped tail
- Grow to at least 6m

Line Illustrations (underside of head and teeth) by Georgina Davis from Last, P.R. & Stevens, J.D. (1994)



Whale Shark







Whale shark Rhincodon typus CAAB No: 37014001

FAO Code: RHN



- Broad, flattened head
- Minute teeth
- Distinctive patterning of light spots and stripes over a dark background, fading to a light colour on the underside
- This natural camouflage allows it to 'blend' into its surroundings when viewed from any angle
- The largest living shark
- Adults grow up to 12m

Freshwater Sawfish





Freshwater sawfish Pristis microdon





- A highly modified ray
- Up to five sawfish species are found in Australia
- Found in fresh or brackish water in the rivers of northern Australia, sometimes more than 100km inland
- Not normally found in the sea
- Grows to at least 2.8m

Pipefish



Pipefish Syngnathidae CAAB No: 37282000



- A distinctive tube-like snout with no teeth
- Elongated bodies encased in bony rings
- Small pectoral fins and a single dorsal fin
- Found in sheltered areas in coral reefs, seagrass beds and sandy lagoons

Seadragons



Seadragons *Syngnathidae*



- Distinct from seahorses by their longer and unusually shaped bodies with spines and many leaf-like appendages
- They have long tails that can not be bent and longer snouts than seahorses
- Can be observed along reefs with kelp or along the edge of sand areas feeding on very small shrimp-like mysids and other small crustaceans
- Grow up to 45cm

Seahorses



Seahorses *Syngnathidae*CAAB No: 37282000



- Elongate bony bodies and long snouts
- Swim slowly upright in the water, or wrap their tails around objects such as seagrass fronds to hold them in place for feeding or for stabilisation during turbulent water conditions such as storms
- Use camouflage to blend in with surroundings before using an ambush predatory feeding behaviour on small crustaceans

Handfish





Handfish Brachionichthys CAAB No: 37209000



- Slow moving, bottom living fish
- Short rounded body, tapers towards the tail
- The body is covered with tiny spines
- Can grow to 150mm
- Spotted handfish: pinkish-white with orange spots
- Red handfish: red with pink areas, covered in fleshy wart-like papillae
- Ziebell's handfish: pinkish-white with purple/ brown spots and yellow fins (Waterfall Bay handfish may be a colour morph of this species)

Reptiles

Sea snakes

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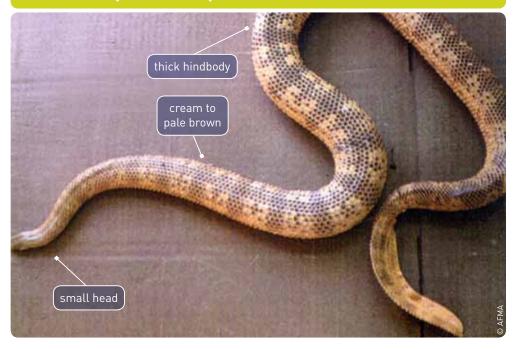
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Crocodiles

Saltwater crocodile	Crocodylus porosus	91

Peron's (Horned) Sea Snake



Peron's (Horned) sea snake Acalyptophis peronii



- Small head with horn-like processes
- Thin forebody, thick hindbody
- Cream to pale brown, some snakes have pale cross bands, broad across the back and tapering on the sides of the snake
- Bands can become obscure in older adults
- Length: 100 120cm

Dubois Sea Snake

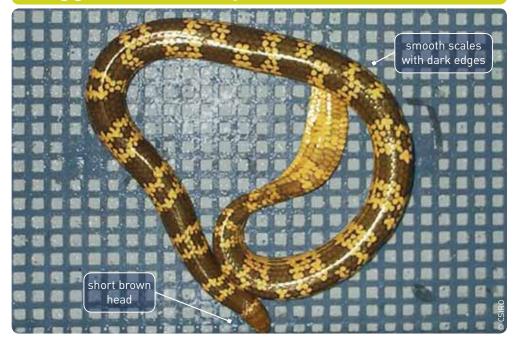


Dubois sea snake Aipysurus duboisii



- Very variable in colour and pattern, ranging from dark purplish-brown to uniform brown, to pale cream or salmon with dark cross bands
- Underside ranges from cream to uniform dark brown
- Smooth scales
- Length: 70 100cm

Stagger-banded (Eyedoux's) Sea Snake



Stagger-banded (Eyedoux's) sea snake Aipysurus eydouxii

inpysaras syacanii



- Short head, uniformly brown or with dark brown flecks
- Body scales are overlapping and smooth with dark edges
- Colour range cream, salmon or yellowish-brown to golden brown with dark cross bands
- Length: 90 105cm

Olive Sea Snake



Olive sea snake Aipysurus laevis



- Robust body and a distinctive head
- Body scales are smooth and overlapping
- Colouration is very variable ranging from dark brown or purplish-brown on the dorsal side fading to paler brown on the ventral side
- Most specimens have creamy white scales scattered over their body
- Length: 120 200cm

Stoke's Sea Snake



Stoke's sea snake Astrotia stokesii



- Large head and thick neck
- Very large with a very thick body
- Yellowish-brown to dark brown, with or without large blotches alternating with narrow bands
- Pattern very noticeable with juveniles and fading with adults
- Adult colour can vary from creamy-white to grey or almost black
- Length: 120 200cm

Hardwick's Sea Snake

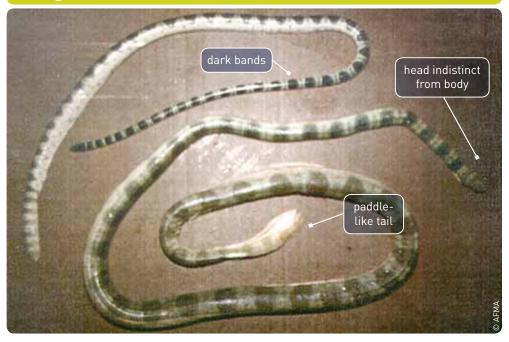


Hardwick's sea snake Lapemis hardwickii CAAB No: 39125031



- The head varies in colour from olive to black, there may be yellow patterns along the sides and across the mouth
- Upperbody olive-grey, underside yellowish-cream
- A zigzag line divides the body into an upper and lower half
- Some animals can have dark grey blotches on the dorsal side which can form bands around the whole body
- Colour variation in both juveniles and adults
- Length: 90 -110cm

Elegant Sea Snake

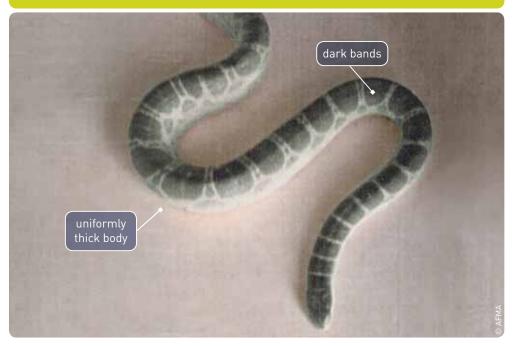


Elegant sea snake Hydrophis elegans



- Slender neck and forebody head is indistinct from body, becoming thicker towards a paddle-like tail
- Body scales smooth or with short keels
- Colour in adults is very variable ranging from pale grey to fawn to brown with a series of cross bars or blotches along the length of the snake
- Juvenile pale brown with black head and 35-55 blackish bands
- Very variable species where juveniles may differ markedly from adults
- Length: 170 200cm

Ornate Sea Snake

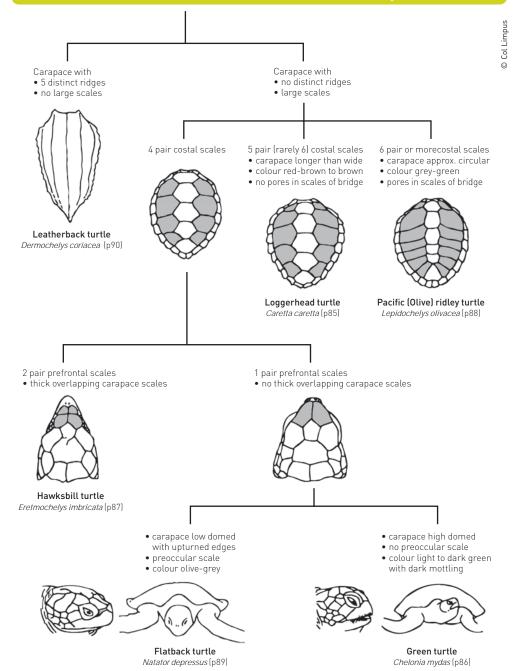


Ornate sea snake Hydrophis ornatus CAAB No: 39125028

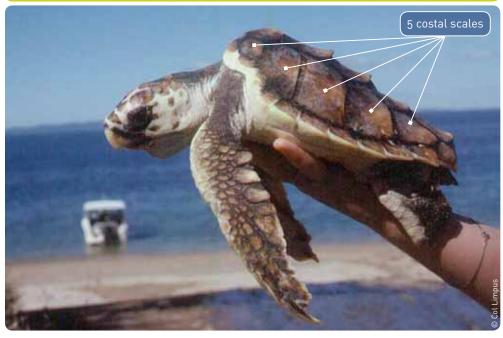


- Large head, uniformly thick body, indistinct neck
- Head may be grey to olive-green
- Grey to bluish-grey in colour with 30-60 dark bands or dorsal blotches which become less distinct with age
- Underside is cream or whitish
- Juvenile bands are sharper, sometimes forming complete rings
- Length: 100 150cm

Indo-Pacific Marine Turtle ID Key



Loggerhead Turtle









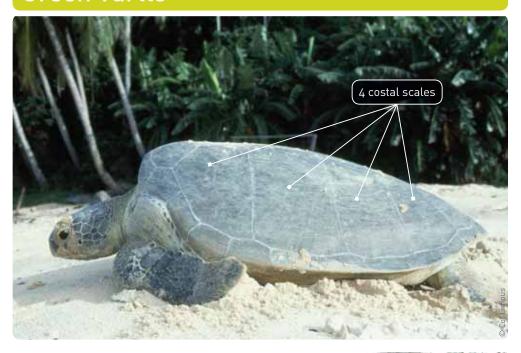
Loggerhead turtle Caretta caretta

CAAB No: 39020001 FAO Code: TTL



- Head can be very large especially in older turtles
- Shell heart-shaped
- Large carapace scales, not overlapping
- 5 pairs of costal scales
- No inframarginal pores (see p84)
- Dark brown to brown sometimes with darker spots
- Carapace length: 125 150cm

Green Turtle







Green turtle *Chelonia mydas*CAAB No: 39020002

FAO Code: TUG



- Snout not beak-like
- No preoccular scale
- 1 pair of prefrontal scales
- Large carapace scales, not overlapping
- 4 pairs of costal scales
- No inframarginal pores (see p84)
- Olive-green with brown, dark brown and black markings
- Underside cream
- Carapace length: 140 160cm

Hawksbill Turtle







Hawksbill turtle Eretmochelys imbricata

CAAB No: 39020003 FAO Code: TTH



- Upper jaw juts forward to form a beak-like snout
- 2 pairs of prefrontal scales
- Large, overlapping carapace scales
- 4 pairs of costal scales
- No inframarginal pores (see p84)
- Narrow heart-shaped shell
- Olive-green to brown with reddish-brown and black markings
- Underside whitish
- Carapace length: 90 110cm

Pacific (Olive) Ridley Turtle





Pacific (Olive) ridley turtle Lepidochelys olivacea

CAAB No: 39020004 FAO Code: LKV



- Snout not beak-like
- Nearly round shell, can be broad and heart-shaped
- Large carapace scales
- 6 or more pairs of costal scales
- Inframarginal pores
- Olive-grey to brown, often without any markings
- Underside whitish
- Carapace length: 55 75cm

Flatback Turtle





Flatback turtle Natator depressus

CAAB No: 39020005 FAO Code: FBT



- Snout not beak-like
- No preoccular scale
- 1 pair of prefrontal scales
- Carapace depressed with upturned edges
- Large carapace scales, not overlapping
- In adults the carapace is covered by thin fleshy skin
- 4 pairs of costal scales
- No inframarginal pores (see p84)
- Olive-grey to pale grey-green shell with no pattern
- Carapace length: 75 105cm

Leatherback Turtle





Leatherback turtle *Dermochelys coriacea*

CAAB No: 39021001 FAO Code: DKK



- Leathery carapace without large scales with 7 distinctive longitudinal ridges
- Front flippers very large in adults, with no claws
- Very dark grey to black, can have paler markings
- Can grow very large
- Carapace length: 170 290cm

Saltwater Crocodile



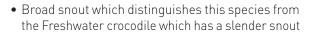




Saltwater crocodile Crocodylus porosus CAAB No: 39140002

FAO Code: CRH





• Grey to almost black with darker mottling



References

Birds

Garnett Stephen T. and Crowley Gabriel M. (2000). *The Action Plan for Australian Birds 2000*. Commonwealth of Australia, Canberra. 673 pp

Harrison Peter. (2003). *Seabirds of the World - A Photographic Guide*. Helm, London. 317 pp.

Onley Derek and Bartle Sandy. (1999). Identification of seabirds of the Southern Ocean, a guide for scientific observers aboard fishing vessels. Te Papa Press, Wellington. 81 pp

Pizzey Graham and Knight Frank. (2003). *The Field Guide to the Birds of Australia, (seventh edition)*. Harper Collins, Sydney. 576pp

Simpson Ken and Day Nicholas. (1995). *Field Guide to the Birds of Australia*. Viking O'Neil, Ringwood. 392 pp.

Slater Peter. (1970). *A Field Guide to Australian Birds, Non-Passerines*. Rigby Ltd, Adelaide. 428pp

The Australian Fisheries Management Authority (2006). Australian Fisheries Management Authority website, Canberra, viewed 11 October 2006, http://www.afma.gov.au.

Mammals

Bannister J.L., Kemper C.M., and Warneke R.M. (1996). *The Action Plan for Australian Cetaceans*. Australian Nature Conservation Agency, Canberra. 242pp.

Bryden M.M. (1995). Southern Elephant Seal *Mirounga leonina*, Grey 1827. In *The Mammals of Australia*. Strahan, R. (ed.) Reed Books, Chatswood. 686 pp

Bryden M.M., Marsh H. and Shaugnessy P.D. (1998). *Dugongs, Whales, Dolphins and Seals: A Guide to the Sea Mammals of Australasia.* Allen and Unwin, St Leonards.

Carwardine Mark. (1995). *Whales Dolphins and Porpoises*. Dorling Kindersley Limited, London. 256pp

Goldsworthy S.D. and Crawley M.C. (1995) New Zealand Fur-seal *Arctocephalus fosteri*, Lesson 1828. In *The Mammals of Australia*. Strahan R. (ed.). Reed Books, Chatswood. pp 675 - 677

Goldsworthy S.D. and Shaugnessy P.D. [1995] Antarctic Fur-seal *Arctocephalus gazella*, Peters 1875. In *The Mammals of Australia*. Strahan R. [ed.]. Reed Books, Chatswood. pp 678 - 680

Goldsworthy S.D. and Shaugnessy P.D. [1995] Subantarctic Fur-seal *Arctocephalus tropicalis*, Gray, 1872. In *The Mammals of Australia*. Strahan R. [ed.]. Reed Books, Chatswood. pp 683 – 684

King J.E. (1995). Leopard Seal *Hydrurga leptonyx*, de Blainville, 1820. Goldsworthy S.D and Shaugnessy P.D. (1995). In *The Mammals of Australia*. Strahan R. (ed.). Reed Books, Chatswood. pp 688 - 689

Marlow B. Australian Sea-lion *Neophoca cinera* (Peron 1816). In *The Mammals of Australia*. Strahan R. (ed.). Reed Books, Chatswood. pp 673 - 674

Mustoe S. and Ross G. [2004]. Search Australian Whales and Dolphins. Interactive CD Rom Identification Guide. APPEA.

Shaughnessy P.D. (1999). *The Action Plan for Australian Seals*. Environment Australia, Canberra. 62pp

Stewardson, C.L. and Knuckey, I.A. (2005). South East Trawl Fishery: Seal Bycatch-Guidelines for Reporting and Data Collection. Bureau of Rural Sciences. Canberra, 20 p.

Strahan R. (ed.). (1995). *The Mammals of Australia*. Reed Books, Chatswood. 756pp.

The Australian Museum (1983). *The Complete Book of Australian Mammals*, Strahan R. (ed.). Angus and Robertson.

Warneke R.M. (1995). Australian Fur-seal *Arctocephalus pusillus* (Schreber 1775). In *The Mammals of Australia*. Reed Books, Chatswood. pp680-682

The Australian Museum (2006). Australian Museum Online website, Sydney, viewed 11 October 2006, http://www.amonline.net.au/factsheets.

Fish

Department of Environment and Heritage (2005). *Recovery Plan for Four Species of Handfish*. Department of Environment and Heritage, Canberra.5pp.

Department of the Environment and Heritage (2005). *Issues Paper: Population Status of and Threats to Four Species of Handfish.*Department of the Environment and Heritage, Canberra. 30pp.

Daley R.K., Stevens J.D., Last P.R., Yearsley G.K. (2002). *Field Guide to Australian Sharks and Rays*. CSIRO Publications.

Ecocean (2006). *Ecocean website*, Australia, viewed 11 October 2006, http://www.ecocean.org.

Last, P.R & J.D Stevens (1994). *Sharks and Rays of Australia*. CSIRO Melbourne. 513pp + 84 colour plates.

The Department of Environment and Heritage (2006), *Department of Environment and Heritage website*, Canberra, viewed 11 October 2006, http://www.deh.gov.au/coasts/publications/index.html

Reptiles

Cogger Harold G. (1992). *Reptiles and Amphibians of Australia*. Reed International Books.

Wilson Steve and Swan Gerry. (2003). *A Complete Guide to the Reptiles of Australia.*New Holland Publishers (Australia) Pty Ltd.

James Cook University (2006). James Cook University website, Townsville, viewed 11 October 2006, http://www.jcu.edu.au/school/tbiol/zoology/herp/NthQLDHerps/NthQLDHerpssea%snakes.html.

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Protected species? Don't get caught just report!

As long as operators are fishing in accordance with their fishery's management arrangements, it is not an offence to interact with a protected species even if the animal dies. However, it is an offence NOT to report these interactions. All you need to do is fill out the appropriate section in your logbook and then submit it to AFMA.

- 1. Report any sightings, collisions or catch of protected species.
- 2. Fill in wildlife form in your logbook.
- 3. Submit this form to AFMA.

For more information contact AFMA Direct on 1300 723 621 or go to www.afma.gov.au