Field Guide to fish (guya) of Orpheus Island (Goolboddi), Queensland

Artwork By Jordan Wyles, 2020

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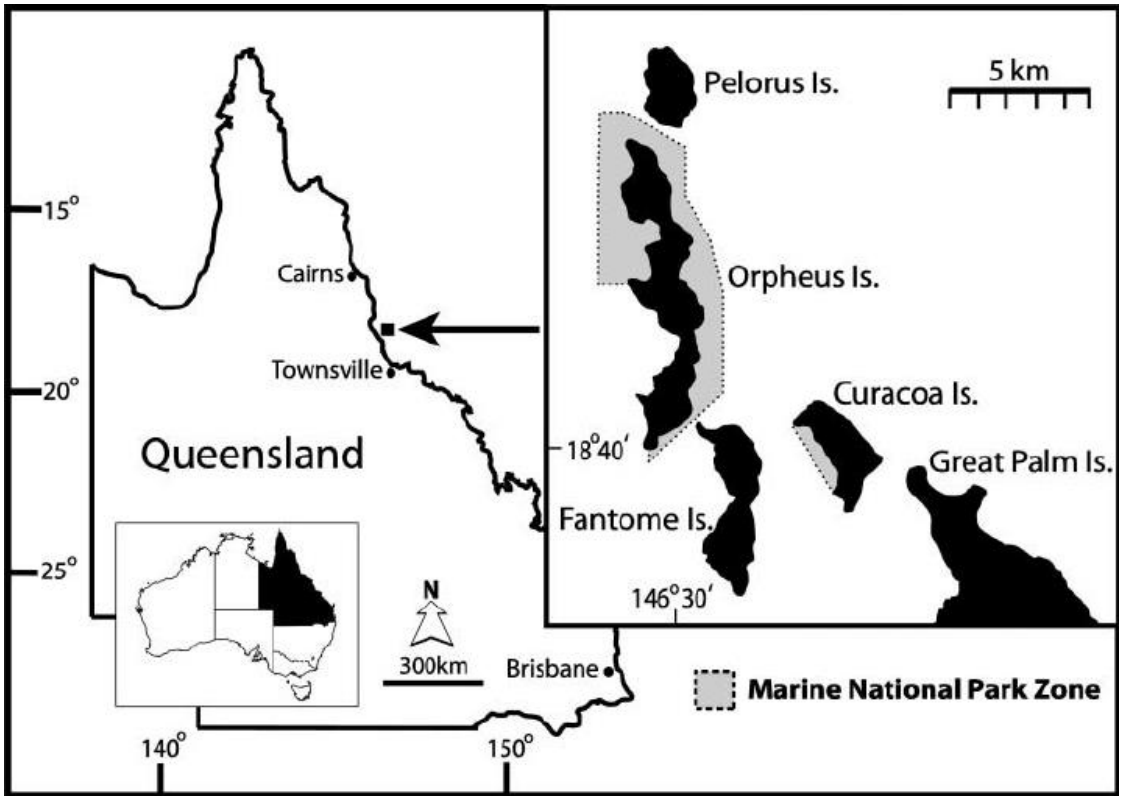
Reef Ecologic Pty Ltd

The purpose for this field guide is to increase the knowledge of fish species at Orpheus Island (Goolboddi) and to document changes over time. This field guide brings together multiple citizen science programs and several hundred divers, fishers, and citizen scientists to collaboratively deliver long-term reef health citizen science monitoring to the popular site.

The citizen science app iNaturalist is the primary tool that was used to create a project for citizen science at Orpheus Island (see map and link below).

https://www.inaturalist.org/projects/citizen-science-at-goolboodi-orpheus-island-and-marine-park

All observations are research grade standard, resulting in at least 2 or more independent experts which have verified the observations. This is a working document and iNaturalist continues to become more popular resulting in more observations and therefore more identifications. This should result in a greater number of species identified at Orpheus Island in the future.



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Further information: Dr Adam Smith, adam.smith@reefecologic.org, 0418726584

More details on iNaturalist and how to add observations of corals to this project

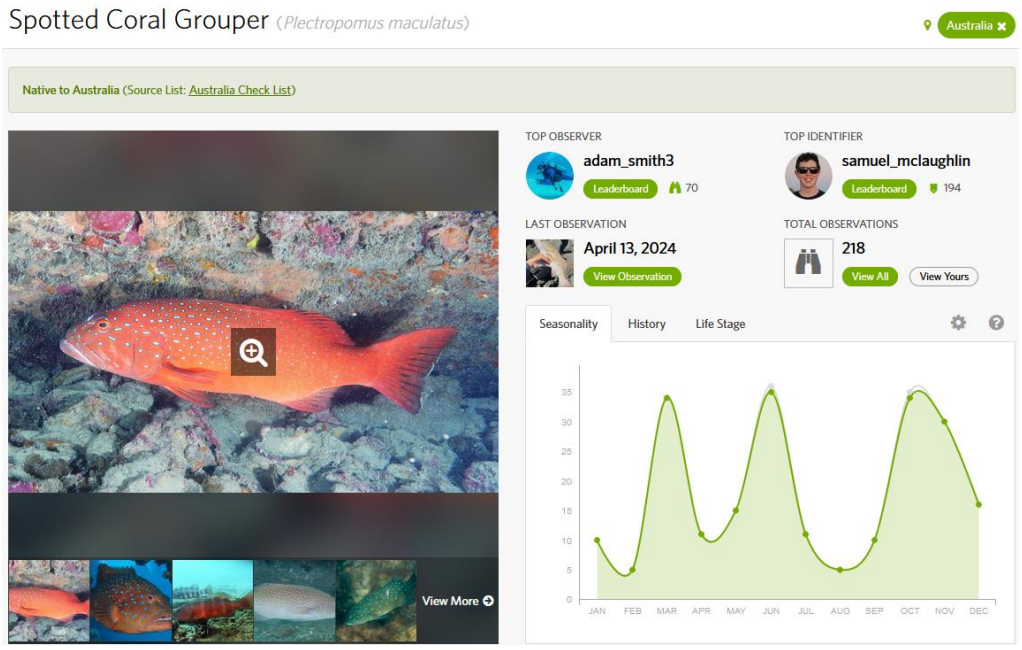
Sign on to iNaturalist:
https://www.inaturalist.org/signup

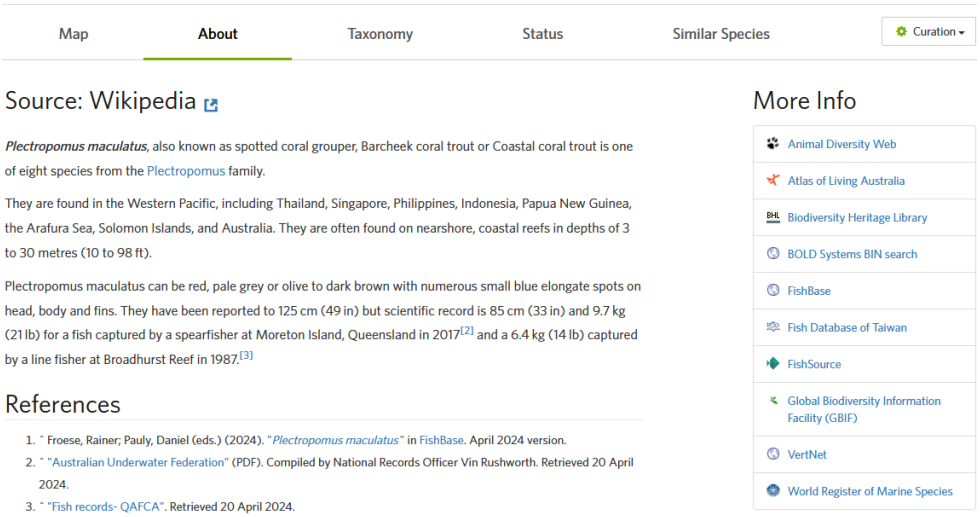
Quick guide to using iNaturalist:
https://reefecologic.org/wp-content/uploads/2023/12/iNaturalist-Guide-1.pdf

Detailed guide to using iNaturalist:
https://ala.org.au/publications/a-guide-to-inaturalist/

More detail on individual species

You can find more detail on many species, here is an example of the Spotted Coral Grouper:





Fish of Orpheus Island

Giant Moray
Gymnothorax javanicus [1]

Peppered Moray
Gymnothorax pictus [2]

Snowflake Moray
Echidna nebulosa [3]

Blacksaddle Snake Eel
Ophichthus cephalozona [2]

Mustache Conger
Conger cinereus [4]

Barred Mudskipper
Periophthalmus argentilineatus [5]

Whitebarred Goby
Amblygobius phalaena [6]

Pinkspot Shrimpgoby
Cryptocentrus leptocephalus [7]

Target Shrimpgoby
Cryptocentrus strigilliceps [8]

Goldstreaked Shrimpgoby
Ctenogobiops aurocingulus [9]

Goldmann's Sandgoby
Istigobius goldmanni [10]

Ornate Sandgoby
Istigobius ornatus [11]

Mural Glidergoby
Valenciennea muralis [12]

Twinspot Shrimpgoby
Vanderhorstia ambanoro [13]

Hairfin Goby
Yongeichthys nebulosus [14]

Four-eye Mini Dartgoby
Aioliops tetrophthalmus [15]

Twotone Dartfish
Ptereleotris evides [16]

Pearly Dartfish
Ptereleotris microlepis [17]

Sixband Angelfish
Pomacanthus sexstriatus [18]

Scribbled Angelfish
Chaetodontoplus duboulayi [19]

Queensland Yellowtail Angelfish
Chaetodontoplus meredithi [20]

Thread-finned Sea Perch
Symphorus nematophorus [21]

Mangrove Red Snapper
Lutjanus argentimaculatus [19]

Spanish Flag Snapper
Lutjanus carponotatus [22]

Blackspot Snapper
Lutjanus fulviflamma [23]

Onespot Snapper
Lutjanus monostigma [24]

Fiveline Snapper
Lutjanus quinquelineatus [17]

Speckled Snapper
Lutjanus rivulatus [14]

Moses' Snapper
Lutjanus russellii [20]

Red Emperor Snapper
Lutjanus sebae [25]

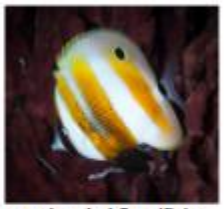
Scissor-tailed Fusilier
Caesio caerulaurea [17]

Yellowtail fusilier
Caesio cuning [17]

Doubleline Fusilier
Pterocaesio digramma [17]

Copperband Butterflyfish
Chelmon rostratus [26]

Highfin coralfish
Coradion altivelis [17]



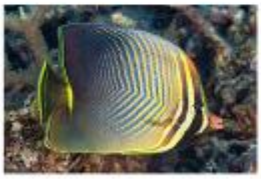
Orangebanded Coralfish
Coradion chrysozonus [10]

Longfin Bannerfish
Heniochus macrolepidotus [27]

Humphead Bannerfish
Heniochus varius [17]

Goldstripe Butterflyfish
Chaetodon aureofasciatus [28]

Threadfin Butterflyfish
Chaetodon auriga [29]



Eastern Triangle Butterflyfish
Chaetodon baronessa [30]

Saddle Butterflyfish
Chaetodon ephippium [30]

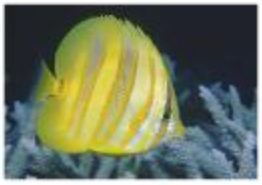
Lined Butterflyfish
Chaetodon lineolatus [31]

Redfin Butterflyfish
Chaetodon lunulatus [32]

Blackback Butterflyfish
Chaetodon melannotus [30]

Bluespot Butterflyfish
Chaetodon plebeius [6]

Lattice Butterflyfish
Chaetodon rafflesii [17]



Rainford's Butterflyfish
Chaetodon rainfordi [27]

Vagabond Butterflyfish
Chaetodon vagabundus [33]

Bluespine Unicornfish
Naso unicornis [22]

Dark Surgeonfish
Acanthurus blochii [22]

Eyestripe Surgeonfish
Acanthurus dussumieri [22]

Eyeline Surgeonfish
Acanthurus nigricauda [34]

Yellowfin Surgeonfish
Acanthurus xanthopterus [35]

Painted Sweetlips
Diagramma pictum [36]

Diagramma pictum labiosum
Diagramma pictum labiosum [37]

Harlequin Sweetlips
Plectorhinchus chaetodonoides [33]

Goldspotted Sweetlips
Plectorhinchus flavomaculatus [33]

Blubberlip
Plectorhinchus gibbosus [19]

Oblique-banded Sweetlips
Plectorhinchus lineatus [17]

Sombre Sweetlips
Plectorhinchus unicolor [37]

Humphead Batfish
Platax batavianus [40]

Round Batfish
Platax orbicularis [41]

Dusky Batfish
Platax pinnatus [17]

Longfin Batfish
Platax teira [42]

Bridled Monocle Bream
Scolopsis bilineata [17]

Pearly monocle bream
Scolopsis margaritifera [17]

Rainbow Monocle Bream
Scolopsis monogramma [23]

Thumbprint Emperor
Lethrinus harak [17]

grass emperor
Lethrinus laticaudis [33]

Orangestriped Emperor
Lethrinus obsoletus [17]

Longnose Emperor
Lethrinus olivaceus [17]

Barred Rabbitfish
Siganus doliatus [37]

Goldlined Rabbitfish
Siganus lineatus [17]

Foxface
Siganus vulpinus [43]

Barred Trevally
Ferdauia ferdau [27]

Bigeye Trevally
Caranx sexfasciatus [44]

Golden Trevally
Gnathanodon speciosus [8]

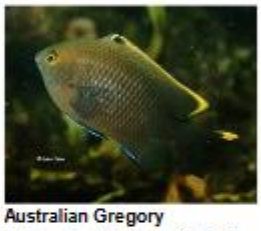
Great Barracuda
Sphyraena barracuda [45]

Black Sand Bass
Psammoperca datnioides [46]

Brassy Drummer
Kyphosus vaigiensis [47]

Red Squirrelfish
Sargocentron rubrum [21]

Dusky Gregory
Stegastes nigricans [17]



Australian Gregory
Plectroglyphidodon apicalis [33]

Humbug
Dascyllus aruanus [16]

Reticulated Damselfish
Dascyllus reticulatus [16]

Black-axil Chromis
Chromis atripectoralis [46]

Barrier Reef Chromis
Chromis nitida [33]

Blue-green Chromis
Chromis viridis [17]

Bengal Sergeant
Abudefduf bengalensis [19]

Scissortail Sergeant
Abudefduf sexfasciatus [48]

Indo-Pacific Sergeant Major
Abudefduf vaigiensis [30]

Whitley's Sergeant
Abudefduf whitleyi [45]

Ambon Damsel
Pomacentrus amboinensis [50]

Whitetail Damsel
Pomacentrus chrysurus [30]

Neon Damselfish
Pomacentrus coelestis [30]

Bluespot damsel
Pomacentrus grammorhynchus [53]

Lemon Damsel
Pomacentrus moluccensis [17]

Ward's Damsel
Pomacentrus wardi [19]

Chinese Demoiselle
Neopomacentrus bankieri [37]

Regal Demoiselle
Neopomacentrus cyanomos [17]

Onespot Demoiselle
Chrysiptera unimaculata [51]

Barrier Reef Anemonefish
Amphiprion akindynos [52]

Spine-cheek Clownfish
Amphiprion biaculeatus [32]

Blackback Anemonefish
Amphiprion melanopus [53]

White Damsel
Dischistodus perspicillatus [54]

Honeyhead Damsel
Dischistodus prosopotaenia [32]

Spiny Chromis
Acanthochromis polyacanthus

Staghorn Damsel
Amblyglyphidodon curacao [55]

Lagoon Damsel
Hemiglyphidodon plagiometopon [32]

Black Damsel
Neoglyphidodon melas [22]

Indo-Pacific Yellowtail Damsel
Neoglyphidodon nigroris [10]

Blue Scissortail
Assessor macneilli [33]

Smallspotted Combtooth Blenny
Ecsenius stictus [19]

Peacock Rockskipper
Istiblennius meleagris [56]

Seram blenny
Salarias ceramensis [57]

Breastspot Blenny
Salarias guttatus [30]

Brown Sabretooth Blenny
Petroscirtes lupus [58]

Narrow-banded Spanish Mackerel
Scomberomorus commerson [17]

Blue-eye Cardinalfish
Ostorhinchus compressus [17]

Cook's Cardinalfish
Ostorhinchus cookii [33]

Wolf Cardinalfish
Cheilodipterus artus [27]

Tiger Cardinalfish
Cheilodipterus macrodon [59]

Fiveline Cardinalfish
Cheilodipterus quinquelineatus [6]

Pajama Cardinalfish
Sphaeramia nematoptera [60]

Yellow Boxfish
Ostracion cubicum [30]

Lagoon Triggerfish
Rhinecanthus aculeatus [61]

Titan Triggerfish
Balistoides viridescens [30]

Whitebelly Toby
Canthigaster bennetti [33]

Narrowlined Puffer
Arothron manilensis [62]

Starry Puffer
Arothron stellatus [63]

Spotted Porcupinefish
Diodon hystrix [63]

Yellowfin Parrotfish
Scarus flavipectoralis [30]

Sixband Parrotfish
Scarus frenatus [51]

Bluebarred Parrotfish
Scarus ghobban [64]

Palenose Parrotfish
Scarus psittacus [65]

Surf Parrotfish
Scarus rivulatus [50]

Yellowbar Parrotfish
Scarus schlegeli [8]

Steephead Parrotfish
Chlorurus microrhinos [66]

Pacific Bullethead Parrotfish
Chlorurus spilurus [30]

Pacific Longnose Parrotfish
Hipposcarus longiceps [22]

Axilspot Hogfish
Bodianus axillaris [50]

Blackbelt Hogfish
Bodianus mesothorax [17]

Anchor Tuskfish
Choerodon anchorago [36]

Blue Tuskfish
Choerodon cyanodus [67]

Harlequin Tuskfish
Choerodon fasciatus [19]

Graphic Tuskfish
Choerodon graphicus [68]

Blackspot Tuskfish
Choerodon schoenleinii [19]

Floral Maori Wrasse
Cheilinus chlorourus [69]

Redbreast Maori Wrasse
Cheilinus fasciatus [70]

Napoleon Wrasse
Cheilinus undulatus [71]

Slingjaw Wrasse
Epibulus insidiator [23]

Linedcheek Wrasse
Oxycheilinus digramma [17]

Pastel-green wrasse
Halichoeres chloropterus [72]

Pinstriped Wrasse
Halichoeres melanurus [30]

Cloud Wrasse
Halichoeres nebulosus [27]

Bubblefin Wrasse
Halichoeres nigrescens [73]

Twotone Wrasse
Halichoeres prosopeion [74]

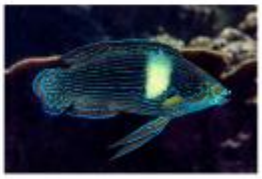
Moon Wrasse
Thalassoma lunare [33]

Blackbarred Wrasse
Thalassoma nigrofasciatum [75]

Batu Coris
Coris batuensis [17]

Blackback Wrasse
Anampses neoguinaicus [76]

Blackeye Thicklip
Hemigymnus melapterus [8]



Tubelip Wrasse
Labrichthys unilineatus [30]

Bluestreak Cleaner Wrasse
Labroides dimidiatus [33]

Redshoulder Wrasse
Stethojulis bandanensis [27]

Barred Soapfish
Diploprion bifasciatus [30]

Humpback Grouper
Chromileptes altivelis [37]

Whitespotted Grouper
Epinephelus coeruleopunctatus

Blacktip Grouper
Epinephelus fasciatus [78]

Flowery Rockcod
Epinephelus fuscoguttatus [17]

Honeycomb Grouper
Epinephelus merra [22]

Specklefin Grouper
Epinephelus ongus [79]

Longfin Rockcod
Epinephelus quoyanus [17]

Chocolate Grouper
Cephalopholis boenak [80]

Bluespotted Grouper
Cephalopholis cyanostigma [8]

Freckled Grouper
Cephalopholis microprion [17]

Slender Grouper
Anyperodon leucogrammicus [36]

Leopard Coralgrouper
Plectropomus leopardus [81]

Spotted Coral Grouper
Plectropomus maculatus [33]

Mozambique scorpionfish
Parascorpaena mossambica [82]

Common Lionfish
Pterois volitans [83]

Zebra Lionfish
Dendrochirus zebra [37]

Estuarine Stonefish
Synanceia horrida [84]

Southern Grubfish
Parapercis australis [23]

Nosestripe Sandperch
Parapercis lineopunctata [85]

Blacktail Grubfish
Parapercis queenslandica [86]

Dot-and-dash Goatfish
Parupeneus barberinus [87]

Cardinal Goatfish
Parupeneus ciliatus [30]

Yellowspot Goatfish
Parupeneus indicus [87]

Bluespotted Cornetfish
Fistularia commersonii [88]

Variegated Lizardfish
Synodus variegatus [22]

Squaretail Mullet
Ellochelon vaigiensis [89]

Blue-tail Mullet
Crenimugil buchanani [14]

Broad Cowtail Stingray
Pastinachus ater [44]

Coral Sea Maskray
Neotrygon trigonoides [90]

Reticulated Whipray
Himantura australis [37]

Pink Whipray
Pateobatis fai [44]

Mangrove Whipray
Urogymnus granulatus [91]

Giant Guitarfish
Glaucostegus typus [37]

Pigeye Shark
Carcharhinus amboinensis [92]

Spinner Shark
Carcharhinus brevipinna [93]

Bull Shark
Carcharhinus leucas [44]

Blacktip Reef Shark
Carcharhinus melanopterus [30]

Ornate Wobbegong
Orectolobus ornatus [19]

Epaulette Shark
Hemiscyllium ocellatum [94]

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