

## Distinct cross-shelf gradient in mesophotic reef fish assemblages in subtropical eastern Australia

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### Supplement.

Table S1. Summary of predatory and scavenging reef fish species abundance within each location and reef band. Family and latitudinal affiliation derived from [www.fishbase.org](http://www.fishbase.org) (Froese & Pauly 2013).

Species	Common name	Family	Latitudinal Affiliation	Seaway				Tweed			Total
				33m	49m	63m	80m	33m	49m	63m	
<i>Acanthopagrus australis</i>	Yellowfin Bream	Sparidae	Temperate	16	4	0	0	3	2	0	25
<i>Achoerodus viridis</i>	Eastern Blue Groper	Labridae	Subtropical	0	0	0	0	1	0	0	1
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	Clupeidae	Tropical	0	1	0	0	0	0	0	1
<i>Aptychotrema rostrata</i>	Eastern Shovelnose Ray	Rhinobatidae	Temperate	0	0	0	1	0	0	0	1
<i>Atractoscion aequidens</i>	Teraglin	Sciaenidae	Tropical	4	0	0	0	0	0	0	4
<i>Atypichthys strigatus</i>	Australian Mado	Kyphosidae	Subtropical	65	40	76	4	9	96	101	391
<i>Aulostomus chinensis</i>	Chinese Trumpetfish	Aulostomidae	Tropical	1	0	0	0	0	0	0	1
<i>Bodianus bilunulatus</i>	Saddleback Pigfish	Serranidae	Tropical	0	0	1	0	0	0	0	1
<i>Bodianus frenchii</i>	Foxfish	Serranidae	Subtropical	1	2	5	0	1	2	1	12
<i>Bodianus izuensis</i>	Striped Pigfish	Serranidae	Subtropical	0	0	2	3	0	1	1	7
<i>Bodianus perditio</i>	Goldspot Pigfish	Serranidae	Subtropical	1	4	0	0	0	5	3	13
<i>Bodianus unimaculatus</i>	Pigfish	Serranidae	Temperate	0	1	5	7	0	0	4	17
<i>Caesioperca lepidoptera</i>	Butterfly Perch	Serranidae	Temperate	0	1	0	0	0	1	0	2
<i>Caesioperca rasor</i>	Barber Perch	Serranidae	Temperate	0	0	0	0	0	1	2	3
<i>Cantheschenia grandisquamis</i>	Largescale Leatherjacket	Monacanthidae	Temperate	1	4	0	0	1	1	0	7
<i>Canthigaster callisterna</i>	Clown Toby	Tetraodontidae	Temperate	0	2	0	2	0	0	2	6
<i>Caprodon longimanus</i>	Long-finned Perch	Serranidae	Subtropical	0	1	0	0	0	0	0	1
<i>Carangoides chrysophrys</i>	Longnose trevally	Carangidae	Tropical	0	0	0	0	0	1	0	1
<i>Carangoides fulvoguttatus</i>	Turrum	Carangidae	Tropical	0	0	8	1	2	0	0	11
<i>Caranx ignobilis</i>	Giant Trevally	Carangidae	Tropical	0	1	2	0	0	0	0	3
<i>Centroberyx affinis</i>	Eastern Nannygai	Berycidae	Subtropical	0	0	2	0	0	0	2	4
<i>Centropyge tibicen</i>	Keyhole Angelfish	Pomacanthidae	Tropical	2	0	0	0	1	0	0	3
<i>Chaetodon guentheri</i>	Gunther's Butterflyfish	Chaetodontidae	Tropical	16	28	8	8	1	9	2	72
<i>Chaetodontoplus meredithi</i>	Queensland Yellowtail Angelfish	Pomacanthidae	Subtropical	0	5	0	0	0	0	0	5

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				33m	49m	63m	80m	33m	49m	63m	
<i>Cheilodactylus fuscus</i>	Red Morwong	Cheilodactylidae	Temperate	1	4	0	0	3	4	1	13
<i>Cheilodactylus vestitus</i>	Crested Morwong	Cheilodactylidae	Subtropical	2	1	0	0	2	1	0	6
<i>Chelmonops truncatus</i>	Eastern Talma	Chaetodontidae	Temperate	0	1	0	0	4	2	1	8
<i>Choerodon cephalotes</i>	Grass Tuskfish	Labridae	Tropical	1	0	0	0	0	0	0	1
<i>Choerodon cyanodus</i>	Blue Tuskfish	Labridae	Subtropical	0	1	2	0	0	0	0	3
<i>Choerodon monostigma</i>	Dark-spot Tuskfish	Labridae	Tropical	0	1	0	0	0	0	0	1
<i>Choerodon venustus</i>	Venus Tuskfish	Labridae	Subtropical	0	6	7	2	0	4	7	26
<i>Chromis abyssicola</i>	Deepsea Puller	Pomacentridae	Subtropical	0	0	0	11	0	0	0	11
<i>Chromis hypsilepis</i>	One-Spot Puller	Pomacentridae	Subtropical	0	0	0	0	0	1	0	1
<i>Chromis mirationis</i>	Japanese Chromis	Pomacentridae	Subtropical	0	0	0	4	0	0	0	4
<i>Coris picta</i>	Comb Wrasse	Labridae	Subtropical	4	1	0	12	4	2	1	24
<i>Damsel sp. 1</i>		Pomacentridae		0	1	0	0	0	0	0	1
<i>Decapterus russelli</i>	Indian Scad	Carangidae	Tropical	444	0	0	0	0	0	0	444
<i>Diploprion bifasciatum</i>	Barred Soapfish	Serranidae	Tropical	1	0	0	0	0	0	0	1
<i>Echeneis naucrates</i>	Shark Sucker	Echeneidae	Subtropical	0	0	0	0	1	0	0	1
<i>Enoplosus armatus</i>	Old Wife	Enoplosidae	Temperate	4	1	0	0	0	1	0	6
<i>Fistularia commersonii</i>	Smooth Flutemouth	Fistulariidae	Tropical	2	0	0	0	0	0	0	2
<i>Glaucosoma scapulare</i>	Pearl Perch	Glaucosomatidae	Tropical	0	0	13	0	0	3	4	20
<i>Gymnocranius audleyi</i>	Collared Large-eye Bream	Lethrinidae	Subtropical	0	0	1	0	1	1	0	3
<i>Gymnothorax cribroris</i>	Sieve Moray	Muraenidae	Temperate	1	0	0	0	0	0	0	1
<i>Gymnothorax prasinus</i>	Green Moray	Muraenidae	Temperate	4	0	0	0	0	0	0	4
<i>Gymnothorax prionodon</i>	Sawtooth Moray	Muraenidae	Temperate	0	1	2	3	0	0	5	11
<i>Heniochus diphreutes</i>	Schooling Bannerfish	Chaetodontidae	Subtropical	1	0	0	0	1	0	0	2
<i>Hypoplectrodes maccullochi</i>	Halfbanded Seaperch	Serranidae	Subtropical	1	4	3	0	3	3	1	15
<i>Kyphosus sydneyanus</i>	Silver Drummer	Kyphosidae	Temperate	0	0	0	1	0	0	0	1
<i>Kyphosus vaigiensis</i>	Brassy Drummer	Kyphosidae	Tropical	0	0	0	0	8	0	0	8
<i>Latropiscis purpurissatus</i>	Sergeant Baker	Aulopidae	Subtropical	0	0	1	0	0	1	2	4
<i>Leatherjacket sp. 1</i>		Monacanthidae		0	1	0	0	0	0	0	1
<i>Lethrinidae or Serranidae sp. 1</i>				0	0	0	0	1	0	0	1
<i>Lutjanus adetii</i>	Hussar	Lutjanidae	Subtropical	0	0	3	0	0	1	2	6
<i>Lutjanus quinquelineatus</i>	Fiveline Snapper	Lutjanidae	Tropical	0	0	0	0	1	0	0	1
<i>Lutjanus russellii</i>	Moses Snapper	Lutjanidae	Tropical	0	0	1	0	0	0	0	1
<i>Mecaenichthys immaculatus</i>	Immaculate Damsel	Pomacentridae	Subtropical	3	1	0	0	1	1	1	7
<i>Meuschenia trachylepis</i>	Yellowfin Leatherjacket	Monacanthidae	Tropical	2	0	1	0	0	0	0	3
<i>Microcanthus strigatus</i>	Stripey	Kyphosidae	Tropical	4	0	0	0	0	1	0	5
<i>Monacanthus chinensis</i>	Fanbelly Leatherjacket	Monacanthidae	Tropical	1	0	0	0	0	0	0	1
<i>Naso maculatus</i>	Scribbled unicornfish	Acanthuridae	Tropical	0	0	1	0	0	0	0	1
<i>Nelusetta ayraud</i>	Ocean Jacket	Monacanthidae	Subtropical	0	2	1	0	0	6	0	9
<i>Nemadactylus douglasii</i>	Grey Morwong	Cheilodactylidae	Temperate	0	0	0	2	0	2	1	5
<i>Notolabrus gymnogenis</i>	Crimsonband Wrasse	Labridae	Temperate	3	1	0	0	4	2	0	10
<i>Ophthalmolepis lineolata</i>	Maori Wrasse	Labridae	Subtropical	0	0	0	0	1	0	1	2
<i>Orectolobus maculatus</i>	Spotted Wobbegong	Orectolobidae	Temperate	2	0	0	1	0	0	0	3
<i>Orectolobus ornatus</i>	Ornate Wobbegong	Orectolobidae	Tropical	0	0	0	0	0	0	1	1
<i>Pagrus auratus</i>	Snapper	Sparidae	Subtropical	8	5	11	4	8	14	8	58

Species	Common name	Family	Latitudinal Affiliation	Seaway				Tweed			Total
				33m	49m	63m	80m	33m	49m	63m	
<i>Paracaesio xanthura</i>	False Fusilier	Lutjanidae	Tropical	0	1	3	13	0	5	0	22
<i>Parapercis sexlorata</i>	Sixstrap Grubfish	Pinguipedidae	Tropical	0	0	0	2	0	0	0	2
<i>Parapercis sp. 1</i>		Pinguipedidae		0	1	0	0	0	0	0	1
<i>Parapercis striticeps</i>	White-streaked Grubfish	Pinguipedidae	Subtropical	2	0	0	0	4	0	0	6
<i>Parma unifasciata</i>	Girdled Scalyfin	Pomacentridae	Temperate	2	0	0	0	0	0	0	2
<i>Parupeneus chrysopleuron</i>	Yellowstriped Goatfish	Mullidae	Tropical	0	0	0	0	0	2	0	2
<i>Parupeneus spilurus</i>	Blacksaddle Goatfish	Mullidae	Tropical	5	50	6	1	11	10	2	85
<i>Pelates sexlineatus</i>	Eastern Striped Grunter	Terapontidae	Tropical	1	0	0	0	0	0	0	1
<i>Pempheris affinis</i>	Blacktip Bullseye	Pempheridae	Temperate	9	0	0	0	2	1	0	12
<i>Pempheris analis</i>	Bronze Bullseye	Pempheridae	Temperate	0	0	0	1	0	0	0	1
<i>Petroscirtes fallax</i>	Yellow Sabretooth Blenny	Blenniidae	Tropical	0	1	0	0	0	0	0	1
<i>Plectorhinchus gibbosus</i>	Harry hotlips	Haemulidae	Tropical	1	0	0	0	0	0	0	1
<i>Priacanthus sp. 1.</i>		Priacanthidae		0	1	0	0	0	0	0	1
<i>Prionurus microlepidotus</i>	Australian Sawtail	Acanthuridae	Subtropical	2	0	0	9	11	12	0	34
<i>Pristipomoides filamentosus</i>	Crimson Jobfish	Lutjanidae	Tropical	0	0	0	26	0	0	0	26
<i>Pseudocaranx dentex</i>	Silver Trevally	Carangidae	Tropical	5	2	3	0	10	1	0	21
<i>Pseudolabrus guentheri</i>	Gunther's Wrasse	Labridae	Subtropical	4	1	0	0	4	0	0	9
<i>Pterois sp. 1</i>		Scorpaenidae		0	0	0	1	0	0	0	1
<i>Rhabdosargus sarba</i>	Tarwhine	Sparidae	Tropical	0	0	0	0	2	1	0	3
<i>Saurida gracilis</i>	Gracile lizardfish	Synodontidae	Tropical	1	0	0	0	0	0	0	1
<i>Scorpaena jacksoniensis</i>	Eastern Red Scorpionfish	Scorpaenidae	Temperate	10	2	3	0	7	4	3	29
<i>Scorpius lineolata</i>	Silver Sweep	Kyphosidae	Temperate	21	6	52	5	1	110	4	199
<i>Seriola dumerili</i>	Greater Amberjack	Carangidae	Subtropical	0	0	0	107	0	0	0	107
<i>Seriola rivoliana</i>	Alamaco Jack	Carangidae	Subtropical	0	0	1	0	0	0	0	1
<i>Siganus fuscescens</i>	Black Rabbitfish	Siganidae	Tropical	1	0	0	0	0	0	0	1
<i>Surgeonfish sp. 1</i>		Acanthuridae		0	1	0	0	0	0	0	1
<i>Thalassoma lunare</i>	Moon Wrasse	Labridae	Subtropical	0	0	0	0	1	0	0	1
<i>Thalassoma lutescens</i>	Sunset Wrasse	Labridae	Subtropical	0	0	0	0	3	0	0	3
<i>Thamnaconus modestoides</i>	Modest Filefish	Monacanthidae	Temperate	0	0	0	2	0	0	0	2
<i>Trygonorrhina fasciata</i>	Eastern Fiddler Ray	Rhinobatidae	Subtropical	0	1	2	0	0	0	0	3
<i>Upeneichthys lineatus</i>	Bluestriped Goatfish	Mullidae	Subtropical	3	2	0	0	0	1	0	6
<i>Wrasse sp. 1</i>		Labridae		1	0	0	0	0	0	0	1
<i>Wrasse sp. 2</i>		Labridae		0	0	0	2	0	0	0	2