

## Life on the edge: Coral reef fishes exhibit strong responses to a habitat boundary

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Table S1. Feeding guilds for the 51 fish species from 13 families included in surveys. Species were assigned to one of five feeding guilds based on published information about diet. Carnivores were defined as species that primarily consume macro invertebrates (e.g. crustaceans, echinoderms, gastropods) and/or fish. Omnivores were classified as species that consume both plant and animal material, and the category herbivore included species that primarily eat organic plant matter and/or detritus. Planktivores include species documented feeding primarily on plankton in the water column

Family	Species	Feeding guild	Reference
<b>Acanthuridae</b>			
	<i>Ctenochaetus striatus</i>	Herbivore	Choat et al. 2002, Wilson et al. 2008, Green & Bellwood 2009
	<i>Zebrasoma scopas</i>	Herbivore	Choat et al. 2002
<b>Balistidae</b>			
	<i>Balistapus undulatus</i>	Omnivore	Wilson et al. 2008, Pratchett et al. 2011
<b>Chaetodontidae</b>			
	<i>Chaetodon baronessa</i>	Corallivore	Berumen et al. 2005, Pratchett 2007, Wilson et al. 2008
	<i>Chaetodon kleinii</i>	Omnivore	Pratchett 2005, Pratchett et al. 2008
	<i>Chaetodon lunulatus</i>	Corallivore	Pratchett 2005, Wilson et al. 2008
	<i>Chaetodon vagabundus</i>	Omnivore	Anderson et al. 1981, Wilson et al. 2008
	<i>Heniochus varius</i>	Carnivore	Wilson et al. 2008, Nagelkerken et al. 2009
<b>Cirrhitidae</b>			
	<i>Paracirrhites forsteri</i>	Carnivore	Leray et al. 2012
<b>Labridae</b>			
	<i>Halichoeres hortulanus</i>	Carnivore	Elliott & Bellwood 2003, Wilson et al. 2008, Berkström et al. 2012
	<i>Halichoeres melanurus</i>	Carnivore	Pratchett et al. 2011, Berkström et al. 2012
	<i>Labroides</i> spp.	Carnivore	Pratchett et al. 2011
	<i>Pseudocheilinus hexataenia</i>	Carnivore	Elliott & Bellwood 2003, Wilson et al. 2008, Geange et al. 2011
	<i>Thalassoma lunare</i>	Carnivore	Elliott & Bellwood 2003, Berkström et al. 2012
<b>Lethrinidae</b>			
	<i>Monotaxis grandoculis</i>	Carnivore	Wilson et al. 2008

Family	Species	Feeding guild	Reference
<b>Lutjanidae</b>			
	<i>Lutjanus biguttatus</i>	Carnivore	McCoy et al. 2013
	<i>Lutjanus gibbus</i>	Carnivore	Wilson et al. 2008
	<i>Macolor niger</i>	Carnivore	Wilson et al. 2008
<b>Mullidae</b>			
	<i>Parupeneus barberinus</i>	Carnivore	Wahbeh & Ajiad 1985, Lukoschek & McCormick 2001, Wilson et al. 2008
	<i>Parupeneus multifasciatus</i>	Carnivore	Wilson et al. 2008
	<i>Parupeneus trifasciatus</i>	Carnivore	Horinouchi et al. 2012
	<i>Upeneus tragula</i>	Carnivore	Linke et al. 2001
<b>Nemipteridae</b>			
	<i>Scolopsis bilineata</i>	Carnivore	Boaden & Kingsford 2012
	<i>Scolopsis ciliata</i>	Carnivore	McCoy et al. 2013
	<i>Scolopsis lineata</i>	Carnivore	McCoy et al. 2013
<b>Pomacanthidae</b>			
	<i>Centropyge bicolor</i>	Herbivore	Green & Bellwood 2009
	<i>Centropyge vroliki</i>	Herbivore	Green & Bellwood 2009
	<i>Pygoplites diacanthus</i>	Carnivore	Durville et al. 2003, McCoy et al. 2013
<b>Pomacentridae</b>			
	<i>Abudefduf sexfasciatus</i>	Planktivore	Pratchett et al. 2011
	<i>Amblyglyphidodon curacao</i>	Planktivore	Pratchett et al. 2001
	<i>Amblyglyphidodon leucogaster</i>	Planktivore	Hamner et al. 1988
	<i>Chromis atripes</i>	Planktivore	Green & Bellwood 2009
	<i>Chromis lepidolepis</i>	Planktivore	Green & Bellwood 2009
	<i>Chromis margaritifer</i>	Planktivore	Kuo & Shao 1991, Green & Bellwood 2009
	<i>Chromis retrofasciata</i>	Planktivore	Gluckmann & Vanderwalle 1998, Green & Bellwood 2009
	<i>Chrysiptera rollandi</i>	Omnivore	Green & Bellwood 2009
	<i>Chrysiptera talboti</i>	Omnivore	Green & Bellwood 2009
	<i>Dascyllus aruanus</i>	Planktivore	Kuo & Shao 1991, Durville et al. 2003
	<i>Dascyllus melanurus</i>	Planktivore	Limbourn et al. 2007
	<i>Dascyllus reticulatus</i>	Planktivore	Kuo & Shao 1991, Pratchett et al. 2001
	<i>Dascyllus trimaculatus</i>	Planktivore	Frédérich et al. 2009
	<i>Neoglyphidodon nigroris</i>	Omnivore	Ceccarelli et al. 2001
	<i>Neopomacentrus azysron</i>	Planktivore	Ceccarelli et al. 2001, Pratchett et al. 2001
	<i>Pomacentrus amboinensis</i>	Omnivore	Ceccarelli et al. 2001, Pratchett et al. 2001
	<i>Pomacentrus coelestis</i>	Planktivore	Hamner et al. 1988, Kuo & Shao 1991
	<i>Pomacentrus lepidogenys</i>	Planktivore	Hamner et al. 1988
	<i>Pomacentrus moluccensis</i>	Planktivore	Pratchett et al. 2001
	<i>Pomacentrus nigromanus</i>	Omnivore	Froese & Pauly 2015
	<i>Pomacentrus smithi</i>	Planktivore	Froese & Pauly 2015
<b>Tetraodontidae</b>			
	<i>Canthigaster papua</i>	Omnivore	Frisch 2006
<b>Zanclidae</b>			
	<i>Zanclus cornutus</i>	Omnivore	McCoy et al. 2013

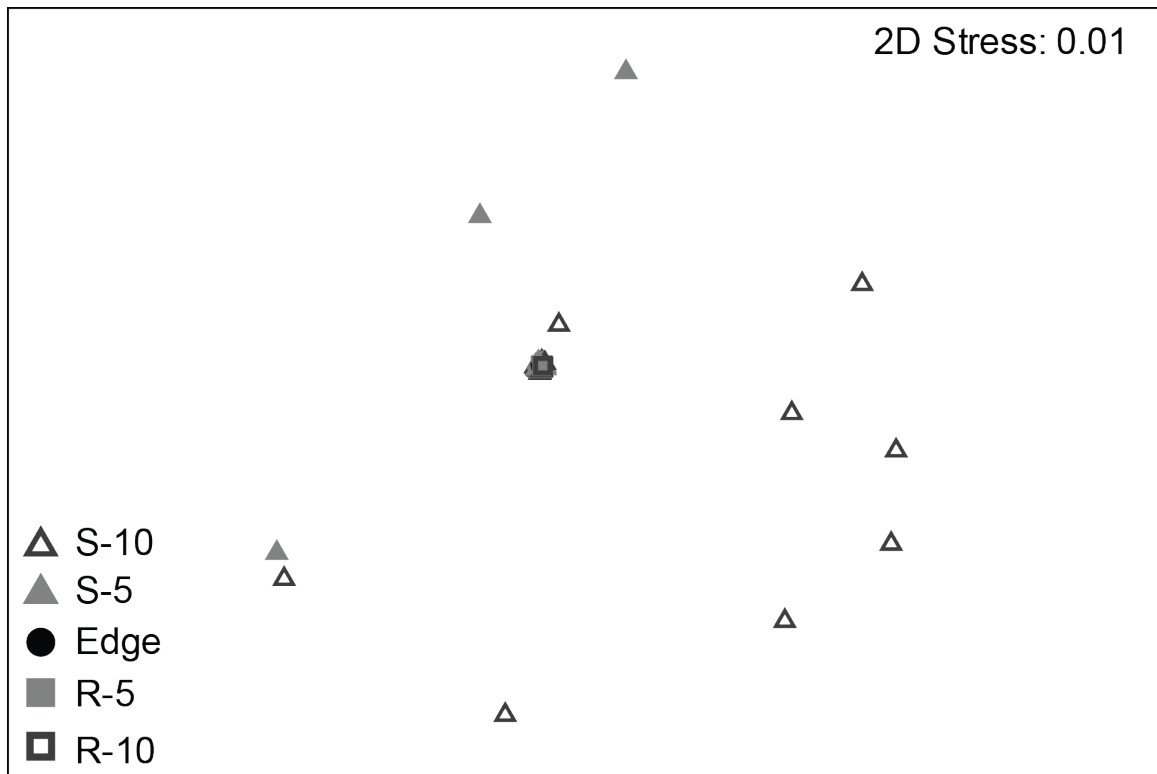


Fig. S1. Non-metric multi-dimensional scaling plot showing differences in fish communities with distance from the edge. Plot shows tight clustering of all 75 transects located on the edge and 5 or 10 m into reef transects. Fish communities on these transects were highly dissimilar to those 5 or 10 m into the sand

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