

APPENDIX 1

Table A1.1 Taxa counted during surveys of 50 reefs in the Cairns Section of the Great Barrier Reef in 1991, and the proportion of reefs in each shelf position in which they were recorded in each habitat

TAXON ↓ // HABITAT ⇒	SHELF POSITION					
	Inner-Shelf		Mid-Shelf		Outer-Shelf	
	Back	Front	Back	Front	Back	Front
CORAL TROUT						
All <i>Plectropomus</i> spp.	100	100	100.00	100.00	100.00	87.50
<i>P. leopardus</i>	25	50	100.00	100.00	100.00	54.17
<i>P. laevis</i>	0	0	27.27	22.73	66.67	79.17
<i>Plectropomus areolatus</i>	0	0	4.55	0.00	16.67	8.33
<i>P. maculatus</i>	75	75	0	0	0	0
SNAPPERS						
All Lutjanids	100	75	100.00	100.00	100.00	100.00
<i>L. carponotatus</i>	100	75	95.45	100.00	12.50	8.33
<i>L. fulviflamma</i>	50	25	54.55	72.73	33.33	54.17
<i>L. fulvus</i>	25	0	36.36	27.27	29.17	12.50
<i>L. vitta</i>	25	25	36.36	31.82	4.17	8.33
<i>L. lemniscatus</i>	25	50	22.73	22.73	8.33	0.00
<i>Lutjanus bohar</i>	0	0	77.27	95.45	95.83	100.00
<i>L. gibbus</i>	0	25	72.73	86.36	83.33	91.67
<i>L. quinquelineatus</i>	0	0	59.09	45.45	33.33	0.00
<i>L. russelli</i>	0	25	40.91	4.55	12.50	0.00
<i>L. monostigma</i>	0	0	18.18	0.00	20.83	12.50
<i>M. niger</i>	0	0	13.64	4.55	83.33	83.33
Other Lutjanids	0	0	4.55	0.00	0.00	0.00
<i>Macolor macularis</i>	0	0	0.00	4.55	37.50	41.67
<i>L. kasmira</i>	0	0	0.00	0.00	20.83	29.17
<i>L. biguttatus</i>	0	0	0.00	4.55	4.17	8.33
<i>L. rivulatus</i>	0	0	0.00	0.00	4.17	25.00
<i>Symphorichthys spilurus</i>	0	0	0.00	0.00	4.17	0.00
<i>L. semicinctus</i>	0	0	0.00	0.00	0.00	8.33
EMPERORS						
Total Lethrinids	50	0	90.91	95.45	100.00	91.67
<i>Lethrinus atkinsoni</i>	25	0	72.73	81.82	95.83	79.17
<i>L. obsoletus</i>	25	0	63.64	54.55	79.17	4.17
<i>L. harak</i>	25	0	27.27	22.73	0.00	0.00
<i>Monotaxis grandoculis</i>	0	0	100.00	90.91	100.00	100.00
<i>L. nebulosus</i>	0	0	22.73	22.73	25.00	8.33
<i>L. miniatus</i>	0	0	13.64	18.18	12.50	4.17
<i>L. ornatus</i>	0	0	9.09	13.64	8.33	29.17
<i>L. erythracanthus</i>	0	0	4.55	0.00	41.67	29.17
<i>L. xanthochilus</i>	0	0	0.00	9.09	20.83	45.83
<i>L. olivaceus</i>	0	0	0.00	9.09	0.00	0.00

Table A1.1 (continued)

TAXON ↓ // HABITAT ⇒	SHELF POSITION					
	Inner-Shelf		Mid-Shelf		Outer-Shelf	
	Back	Front	Back	Front	Back	Front
SURGEON FISH						
Total Acanthurids	100	100	92.00	96.00	100.00	100.00
Other Acanthurids	100	100	92.00	96.00	100.00	100.00
<i>Zebrasoma scopas</i>	0	100	72.00	76.00	100.00	100.00
<i>Acanthurus dussumieri</i>	0	0	24.00	24.00	33.33	66.67
BUTTERFLYFISH						
All Chaetodonts	100	100	100.00	100.00	100.00	100.00
<i>C. vagabundus</i>	100	75	90.91	95.45	87.50	70.83
<i>Chaetodon aureofasciatus</i>	100	100	81.82	77.27	0.00	0.00
<i>Chelmon rostratus</i>	75	50	45.45	27.27	4.17	0.00
<i>C. lineolatus</i>	75	50	40.91	40.91	33.33	25.00
<i>C. trifascialis</i>	50	50	100.00	100.00	100.00	95.83
<i>C. rainfordi</i>	50	50	100.00	81.82	16.67	8.33
<i>C. baronessa</i>	50	25	95.45	100.00	95.83	75.00
<i>C. auriga</i>	50	25	95.45	86.36	91.67	45.83
<i>C. melannotus</i>	50	50	81.82	63.64	87.50	87.50
<i>C. ephippium</i>	25	0	40.91	59.09	70.83	66.67
<i>C. rafflesi</i>	25	25	18.18	45.45	16.67	58.33
<i>C. plebeius</i>	0	50	95.45	95.45	100.00	91.67
<i>C. trifasciatus</i>	0	25	72.73	68.18	87.50	83.33
<i>C. citrinellus</i>	0	0	68.18	45.45	95.83	87.50
<i>C. kleinii</i>	0	0	63.64	45.45	66.67	62.50
<i>C. ulietensis</i>	0	0	45.45	22.73	91.67	70.83
<i>C. unimaculatus</i>	0	0	22.73	27.27	50.00	54.17
<i>C. speculum</i>	0	0	18.18	22.73	16.67	16.67
Other Chaetodonts	0	0	13.64	4.55	0.00	0.00
<i>C. bennetti</i>	0	0	9.09	0.00	20.83	4.17
<i>C. lunula</i>	0	0	9.09	9.09	0.00	0.00
<i>C. pelewensis</i>	0	0	4.55	4.55	83.33	79.17
<i>Forcipiger flavissimus</i>	0	0	0.00	0.00	66.67	66.67
<i>C. ornatissimus</i>	0	0	0.00	13.64	54.17	83.33
<i>C. flavirostris</i>	0	0	0.00	4.55	4.17	8.33
<i>C. reticulatus</i>	0	0	0.00	0.00	4.17	25.00
<i>C. meyeri</i>	0	0	0.00	0.00	0.00	8.33
<i>Hemitaurichthys polylepis</i>	0	0	0.00	0.00	0.00	45.83
DAMSELFISH						
<i>Pomacentrus moluccensis</i>	100	75	100.00	100.00	95.83	16.67
<i>Thalassoma lunare</i>	100	50	100.00	100.00	66.67	8.33
<i>Amblyglyphidodon curacao</i>	50	50	100.00	100.00	95.83	16.67
<i>Chrysiptera rollandi</i>	25	25	95.45	68.18	87.50	0.00
<i>Chromis atripectoralis</i>	25	25	95.45	68.18	79.17	25.00
<i>Plectroglyphidodon lacrymatus</i>	0	25	86.36	86.36	100.00	91.67
<i>Pomacentrus philippinus</i>	0	0	22.73	27.27	91.67	91.67
<i>Plectroglyphidodon dickii</i>	0	0	13.64	27.27	37.50	91.67
<i>Neoglyphidodon melas</i>	0	0	0.00	4.55	0.00	0.00

Table A1.1 (continued)

TAXON ↓ // HABITAT ⇒	SHELF POSITION					
	Inner-Shelf		Mid-Shelf		Outer-Shelf	
	Back	Front	Back	Front	Back	Front
BENTHOS						
Poritids	100	100	100.00	100.00	100.00	95.83
Other Hard Coral	100	100	100.00	100.00	100.00	100.00
Dead Corals	100	75	100.00	100.00	100.00	95.83
Soft Corals	100	75	100.00	100.00	100.00	100.00
Sponges	100	75	100.00	95.45	95.83	95.83
Acroporids – Other	75	75	100.00	100.00	100.00	100.00
<i>Drupella</i> Infestation	75	75	100.00	100.00	100.00	100.00
Acroporids – Plate	50	0	95.45	86.36	91.67	83.33
<i>Tridacna gigas</i>	75	50	86.36	86.36	79.17	16.67
<i>Linckia laevigata</i>	25	50	90.91	63.64	50.00	4.17
<i>Tridacna derasa</i>	25	0	72.73	77.27	91.67	4.17
<i>Acanthaster planci</i>	0	0	31.82	18.18	4.17	0.00

