

## Part 7

### Fishes of Ashmore Reef and Cartier Island

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#### Abstract

A preliminary list of fishes contains 569 species in 226 genera and 74 families, including 12 new records for Australia. The fauna is similar to that of other outer shelf reefs such as Rowley Shoals, Scott, and Seringapatam, but has a stronger Indonesian element. The overall composition is typical of coral reefs throughout the tropical Indo-Pacific region.

#### Background and discussion

The present paper reports the first comprehensive fish collections from Ashmore Reef and nearby Cartier Island. The only previous collections were those of McCosker, who visited Ashmore Reef in 1972-1973 aboard the research vessel *Alpha Helix*. The only published results from that expedition appeared in Dunson's (1975) *Biology of Sea Snakes*. About 45 species were included in a list of gut content items found in sea snakes. According to McCosker (pers. comm.) these specimens and a small collection of other reef fishes were deposited at the Scripps Institute of Oceanography, La Jolla, California.

The author made 20 fish collections at Ashmore Reef and another five at Cartier Island during September 1986. These efforts yielded a total of 1710 specimens which have been deposited at the Western Australian Museum. Collections were made primarily while SCUBA diving using a chemical ichthyocide (powdered rotenone). A few specimens were also obtained by spearing and with hook and line. Details of the various collecting stations are presented elsewhere in this volume. In addition a number of records were added on the basis of underwater observations utilising snorkel and SCUBA equipment.

The faunal composition of Ashmore-Cartier reefs is similar to that of Rowley Shoals and Scott-Seringapatam reefs. Allen and Russell (1986) listed 688 species from the latter areas, which occupy similar offshore positions, about 700 and 240 km respectively southwest of Ashmore Reef. The main differences in the faunas of these areas seem to be related to habitat differences. Rowley Shoals and Scott-Seringapatam are more oceanic and have better developed and steeper outer reef drop-offs. Hence, they tend to have richer outer slope faunas. In contrast, the outer reef at Ashmore does not fall away steeply to deep water, but usually slopes gradually to 12-15 m depth ending in a rubble or sand bottom. However, there is a steep drop from 10 to 25 m depth on the northern side (stations 8 and 11). Perhaps the most interesting habitat at Ashmore Reef is the extensive, well developed shallow lagoon system.

The total known fish fauna of the North-West Shelf reefs (Rowley Shoals, Scott-Seringapatam, and Ashmore-Cartier) is presently about 833 species. The distribution of fishes

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**Table 1.** Most speciose families at Ashmore Reef-Cartier I. compared with Rowley Shoals and Scott-Seringapatam Reefs.

Family	Ashmore-Cartier	Scott Seringapatam	Rowley Shoals
Gobiidae	66	50	47
Pomacentridae	66	47	46
Labridae	54	45	45
Apogonidae	36	27	25
Chaetodontidae	24	24	23
Acanthuridae	21	20	19
Muraenidae	19	15	12
Serranidae	18	21	24
Scorpaenidae	16	7	6
Blenniidae	15	18	21
Holocentridae	14	15	18
Scaridae	13	13	12
Lutjanidae	12	11	12
Balistidae	11	11	10
Pomacanthidae	11	12	9

within this area is presented in Table 1. About 25% of the species are shared between the three main reef complexes. Each area has a significant number (10-21%) of fishes that were not collected at other reefs, although additional work will probably reveal that the fauna is more uniformly distributed.

The composition of the outer shelf fauna, at least at the species, genus, and family level (particularly the latter two) is generally similar to that of other reef areas in the tropical Indo-West Pacific, for example Christmas Island, Indian Ocean (Allen and Steene 1979) and the Capricorn-Bunker Group on the southern Great Barrier Reef (Russell 1983).

The most speciose families at Ashmore-Cartier (Table 2) are generally the same as those which are well represented at other areas. There is no indication of endemism at the Ashmore-

**Table 2.** Distribution of Northwest Shelf reef fishes (categories are mutually exclusive).

Distribution	No. Species	% of Shelf Fauna
Rowley Shoals, Scott-Seringapatam Reefs and Ashmore Reef-Cartier I	217	26.05
Ashmore-Cartier only	180	21.60
Rowley Shoals only	110	13.20
Scott-Seringapatam only	88	10.56
Ashmore Reef-Cartier I. and Scott-Seringapatam Reefs	90	10.80
Rowley Shoals and Ashmore Reef-Cartier I.	82	9.84
Rowley Shoals and Scott-Seringapatam Reefs	66	7.92
<b>Total Fauna</b>	<b>833</b>	

Cartier complex, which is not surprising in view of the relatively short distance (150 km) from the Indonesian islands. It is unlikely that an undescribed species of *Notograptus* (Notograptidae) presently known only from Ashmore Reef is endemic. Further collecting at Indonesia will probably reveal its occurrence there. In summary, the fish fauna of Ashmore-Cartier reefs is typically Indo-West Pacific in composition with strong affinities to the Indonesia province. It contains several species which are typically Indo-Malaysian, and not previously known from Australian seas. Some examples include *Labracinus cyclophthalmus* (Pseudochromidae), *Pseudochromis melanotenis* (Pseudochromidae), *Apogon chrysopomus* (Apogonidae), *Paraglyphidodon oxyodon* (Pomacentridae), and *Ecsenius trilineatus* (Blenniidae).

The list of species presented below contains fishes collected or observed during the 1986 expedition and also those recorded by McCosker (1974). As a result of recent collections at Ashmore Reef by B.C. Russell and H.A. Larson of the Northern Territory Museum additional new records were added. In addition, Larson (1990) reported three species of gobiids (*Pleurosicya*) from Ashmore Reef. The present work also contains a summary of the fishes previously reported from Scott-Seringapatam Reefs and Rowley Shoals.

### Acknowledgements

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## List of Fishes

## Key to symbols:

- numbers = sampling stations at Ashmore Reef (See Figure 2)  
 C1-C5 = Cartier Island (See Figure 3)  
 \* = new record for Australia  
 L = recorded by Larson (1990)  
 M = recorded by McCosker (in Dunson 1975)  
 v = visual records  
 + = recorded from Rowley Shoals or Scott-Seringapatam (Allen and Russell 1986)  
 DFH = refers to species identification numbers used by Dr D.F. Hoese for some gobiids.  
 - = not recorded

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
HEMISCYLLIIDAE			
<i>Chiloscyllium</i> sp.	-	+	-
<i>Hemiscyllum trispeculare</i> Richardson, 1843	C2	-	-
ORECTOLOBIDAE			
<i>Orectolobus wardi</i> Whitley, 1939	C2	-	-
STEGASTOMATIDAE			
<i>Stegasoma fasciatum</i> (Hermann, 1783)	v	-	-
GINGLYMOSTOMATIDAE			
<i>Nebrius ferrugineus</i> (Lesson, 1830)	-	+	+
CARCHARHINIDAE			
<i>Carcharhinus amblyrhynchos</i> (Bleeker, 1856)	-	+	+
<i>Galeocerdo cuvier</i> (Müller & Henle, 1837)	v	-	+
HEMIGALEIDAE			
<i>Triaenodon obesus</i> (Rüppell, 1835)	v	+	+
DASYATIDIDAE			
<i>Dasyatis kuhlii</i> (Müller & Henle, 1841)	v	+	-
<i>Taeniura lymna</i> (Forsskal, 1775)	v	+	-
<i>T. melanospilos</i> Bleeker, 1853	-	-	+
MYLOBATIDAE			
<i>Rhinoptera neglecta</i> Ogilby, 1912	v	-	+
MOBULIDAE			
<i>Manta birostris</i> (Walbaum, 1792)	-	-	+
MORINGUIDAE			
<i>Moringua abbreviata</i> Loveridge, 1925	-	-	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>M. javanica</i> (Kaup, 1856)	8,16	-	-
<i>M. microchir</i> Bleeker, 1853	10,14,16	-	-
<i>M. sp.</i>	-	+	+
<b>XENCONGRIDAE</b>			
<i>Kaupichthys</i> sp.	-	+	-
<i>K. brachychirus</i> Shultz, 1953	-	+	-
<i>K. hypoproroides</i> (Stromann, 1896)	-	-	+
<b>MURAENIDAE</b>			
<i>Anarchias allardicei</i> Jordan & Starks, 1906	-	-	+
<i>A. seychellensis</i> Smith, 1962	-	-	+
<i>Echidna polyzona</i> (Richardson, 1845)	3	-	-
<i>E. unicolor</i> Schultz, 1953	-	-	+
<i>Enchelycore bayeri</i> (Schultz, 1952)	-	+	+
<i>Gymnomuraena zebra</i> (Shaw, 1797)	-	+	-
<i>Gymnothorax buroensis</i> (Bleeker, 1857)	2,10	-	+
<i>G. chilospilos</i> Bleeker, 1865	-	+	+
<i>G. enigmaticus</i> McCosker & Randall, 1982	3	+	-
<i>G. firmbriatus</i> (Bennett, 1831)	7	+	-
<i>G. flavimarginatus</i> (Rüppell, 1828)	3	+	+
<i>G. gracilicaudus</i> Jenkins, 1902	10,16	-	-
<i>G. javanicus</i> (Bleeker, 1865)	v	+	-
<i>G. margaritophorus</i> (Bleeker, 1865)	10	+	+
<i>G. melanospilos</i> (Bleeker, 1855)	-	+	-
<i>G. melatremus</i> Schultz, 1953	C3	+	-
<i>G. monochrous</i> (Bleeker, 1856)	18	-	+
<i>G. rueppelliae</i> (McClelland, 1845)	3	+	-
<i>G. undulatus</i> (Lacepède, 1803)	16	+	+
<i>G. zonipectus</i> Seale, 1906	5	+	+
<i>Gymnothorax</i> sp.	3	-	-
<i>Siderea picta</i> (Ahl, 1789)	C2	+	+
<i>Uropterygius concolor</i> Rüppell, 1838	8	-	-
* <i>U. kamar</i> McCosker & Randall, 1977	8	-	-
<i>U. marmoratus</i> (Lacepède, 1803)	8	-	-
<i>Uropterygius</i> sp.	10	+	-
<b>CONGRIDAE</b>			
<i>Ariosoma</i> sp.	M	-	-
<i>Conger cinereus</i> Rüppell, 1828	3,16,C2	-	-
<i>Congrina</i> sp.	M	-	-
* <i>Gnathophipis</i> sp.	14	-	-
<i>Taenioconger haasi</i> (Klausewitz & Eibl- Eibesfeldt, 1959)	C1	-	-
<b>OPHICHTHIDAE</b>			
<i>Brachysomophis crocodilinus</i> (Bennett, 1833)	-	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Callechelys marmoratus</i> (Bleeker, 1852)	14	-	+
<i>C. melanotaenia</i> (Bleeker, 1864)	C2	-	-
<i>Leiuranus semicinctus</i> (Lay & Bennett, 1839)	12,14	+	+
<i>Muraenichthys gymnotus</i> Bleeker, 1864	16	+	-
<i>M. thompsoni</i> Jordan & Richardson, 1908	14	-	-
<i>Myrichthys maculosus</i> (Cuvier, 1817)	-	+	-
<i>Myrophis uropterus</i> Temminck & Schlegel, 1842	-	-	+
<i>Ophichthus cephalazona</i> (Bleeker, 1886)	14	-	-
<i>O. melanochir</i> (Seale, 1917)	M	-	-
<i>Phyllophichthus xenodontus</i> Gosline, 1951	-	+	-
<i>Schismorhynchus labialis</i> (Seale, 1917)	14	-	-
<b>CLUPEIDAE</b>			
<i>Amblygaster leiogaster</i> (Valenciennes, 1847)	2	-	-
<i>Spratelloides gracilis</i> (Temminck & Schlegel, 1846)	-	+	-
<b>SYNODONTIDAE</b>			
<i>Saurida gracilis</i> (Quoy & Gaimard, 1824)	18,C3	+	+
<i>Synodus binotatus</i> Schultz, 1953	17	+	-
<i>S. englemanni</i> Schultz, 1953	15	+	+
<i>S. jaculum</i> Russell & Cressy, 1979	8	+	-
<i>S. rubromarmoratus</i> Russell & Cressy, 1979	-	+	-
<i>S. variegatus</i> (Lacepède, 1803)	2,5,12,20,C2	+	+
<b>PLOTOSIDAE</b>			
<i>Plotosus lineatus</i> (Thünberg, 1787)	-	+	+
<b>GOBIESOCIDAE</b>			
<i>Diademichthys lineatus</i> (Sauvage, 1883)	6	+	+
<i>Discotrema crinophila</i> Briggs, 1976	8	-	-
<b>ANTENNARIIDAE</b>			
<i>Antennarius analis</i> (Gosline, 1957)	C1	-	+
<i>A. coccineus</i> (Lesson, 1829)	-	-	+
<i>A. dorhensis</i> Bleeker, 1859)	14	-	+
<i>A. pictus</i> (Shaw & Nodder, 1794)	16	-	-
<i>Histrio histrio</i> (Linnaeus, 1758)	-	-	+
<b>BROTULIDAE</b>			
<i>Brotula multibarbat</i> (Temminck & Schlegel, 1846)	-	-	+
<b>BYTHITIDAE</b>			
<i>Brosomphyciops pautzki</i> Schultz, 1953	-	-	+
<i>Brotulina</i> sp.	13	-	-
<i>Ogilbia</i> sp. 1	10	-	+
<i>Ogilbia</i> sp. 2	2	-	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<b>CARAPIDAE</b>			
<i>Carapus homei</i> (Richardson, 1844)	6	-	-
<b>EXOCOETIDAE</b>			
<i>Cheilopogon atrisignis</i> (Jenkins, 1904)	-	+	-
<i>C. sp.</i>	-	+	-
<i>Cypselurus hexazona</i> ? (Bleeker, 1853)	-	-	+
<b>HEMIRAMPHIDAE</b>			
<i>Hemirhamphus far</i> (Forsskål, 1775)	2	-	-
<i>Hyporhamphus quoyi</i> (Valenciennes, 1847)	-	+	-
<b>BELONIDAE</b>			
<i>Platybelone argalus</i> (Lesuer, 1821)	v	+	-
<i>Strongylura incisa</i> (Valenciennes, 1846)	-	+	-
<i>Tylosaurus appendiculatus</i> (Kluzinger, 1871)	-	+	-
<i>T. crocodilus</i> (Lesuer, 1821)	-	+	+
<b>ATHERINIDAE</b>			
<i>Atherina sp.</i>	-	+	-
<i>Hypoatherina barnesi</i> Schultz, 1953	-	-	+
<i>H. ovalua</i> (Herre, 1935)	-	-	+
<i>Pranesus endrachtensis</i> (Quoy & Gaimard, 1824)	-	-	+
<i>Stenatherina temminckii</i> ? (Bleeker, 1852)	-	+	-
<b>HOLOCENTRIDAE</b>			
<i>Myripristis adusta</i> Bleeker, 1853	v	+	+
<i>M. berndti</i> Jordan & Evermann, 1902	16	+	+
<i>M. kuntee</i> Valenciennes, 1831	-	-	+
<i>M. murdjan</i> (Forsskål, 1775)	5	-	+
<i>M. pralinia</i> Cuvier, 1829	7	+	+
<i>M. violacea</i> Bleeker, 1851	11	+	+
<i>M. vittata</i> Valenciennes, 1831	2	-	+
<i>Neoniphon argenteus</i> (Valenciennes, 1831)	5	+	+
<i>N. opercularis</i> (Valenciennes, 1831)	-	+	+
<i>N. sammara</i> (Forsskål, 1775)	v	+	+
<i>Sargocentron caudimaculatum</i> (Rüppell, 1835)	5	+	+
<i>S. cornutum</i> (Bleeker, 1853)	-	+	+
<i>S. diadema</i> (Lacepède, 1802)	v	+	+
<i>S. lepros</i> (Allen & Cross, 1983)	-	-	+
<i>S. microstomus</i> (Günther, 1859)	-	+	+
<i>S. praslin</i> (Lacepède, 1802)	12	+	-
<i>S. punctatissimum</i> (Cuvier, 1829)	C1	+	+
<i>S. spiniferum</i> (Forsskål, 1775)	v	+	+
<i>S. tieroides</i> (Bleeker, 1853)	5	-	-
<i>S. tiere</i> (Cuvier, 1829)	-	-	+
<i>S. violaceus</i> (Bleeker, 1853)	-	+	-

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<b>AULOSTOMIDAE</b>			
<i>Aulostomus chinensis</i> (Linnaeus, 1766)	v	+	+
<b>FISTULARIIDAE</b>			
<i>Fistularia commersoni</i> Rüppell, 1835	v	+	-
<b>SOLENOTOMIDAE</b>			
<i>Solenostomus paradoxus</i> (Pallas, 1870)	-	-	+
<b>SYNGNATHIDAE</b>			
<i>Bhanotia fasciolata</i> (Dumeril, 1870)	-	+	-
<i>Choeroichthys brachysoma</i> (Bleeker, 1855)	2,18	+	+
<i>Corythoichthys amplexus</i> Dawson & Randall, 1975)	-	+	-
<i>C. flavofasciatus</i> (Rüppell, 1833)	-	+	+
<i>C. intestinalis</i> (Ramsay, 1881)	-	-	+
<i>C. schultzi</i> Herald, 1953	-	-	+
<i>Cosmocampus banneri</i> (Herald & Randall, 1972)	-	-	+
<i>Doryrhamphus dactyliophorus</i> (Bleeker, 1853)	-	+	+
<i>D. negrosensis</i> Herre, 1934	-	-	+
<i>Halicampus dunckeri</i> (Chabanaud, 1929)	12	-	+
<i>H. macrorhynchus</i> Bamber, 1915	-	-	+
<i>H. nitidus</i> (Günther, 1873)	-	+	+
<i>Syngnathoides biaculeatus</i> (Bloch, 1785)	16	-	-
<b>SCORPAENIDAE</b>			
<i>Amblyapistus taenionotus</i> (Cuvier, 1829)	16	-	-
<i>Dendrochirus biocellatus</i> (Fowler, 1935)	8	+	-
<i>D. zebra</i> (Cuvier, 1829)	C2	-	-
* <i>Parascorpaena mcadamsi</i> (Fowler, 1938)	17	-	-
* <i>P. mossambica</i> (Peters, 1855)	1,3,20	-	-
<i>P. picta</i> Cuvier, 1829)	-	+	-
<i>Pterois antennata</i> (Bloch, 1787)	5	+	+
<i>P. radiata</i> Cuvier, 1829	7	+	+
<i>P. volitans</i> (Linnaeus, 1758)	5	-	-
<i>Scorpaenodes albaiensis</i> Evermann & Seale, 1907	11	+	+
<i>S. guamensis</i> (Quoy & Gaimard, 1824)	3,5,11,16, 18,Ce	-	+
<i>S. kelloggi</i> (Jenkins, 1903)	7	-	-
<i>S. parvipinnis</i> (Garrett, 1863)	17	-	-
<i>S. varipinnis</i> Smith, 1957	13	-	-
<i>Scorpaenopsis diabolus</i> Cuvier, 1829	-	-	+
<i>S. macrochir</i> Ogilby, 1910	-	-	+
<i>S. venosus</i> (Cuvier, 1829)	17	-	-
<i>S. sp.</i>	5	-	-
<i>Sebastapistes cyanostigma</i> (Bleeker, 1856)	-	+	-
<i>Taenianotus triacanthus</i> Lacepède, 1802	-	+	-



	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<b>CARACANTHIDAE</b>			
<i>Caracanthus unipinnis</i> (Gray, 1831)	10	+	+
<b>PLATYCEPHALIDAE</b>			
<i>Thysanophrys chiltoni</i> Schultz, 1966	7,10,13,17	+	+
<i>T. otaitensis</i> (Parkinson, 1829)	10,C2	-	+
<b>SERRANIDAE</b>			
<i>Aethaloperca rogaa</i> (Forsskål, 1775)	5	+	+
<i>Anyperodon leucogrammicus</i> (Valenciennes, 1828)	v	+	+
<i>Cephalopholis argus</i> Bloch & Schneider, 1801	3	+	+
<i>C. leopardus</i> (Lacepède, 1802)	5	+	+
<i>C. miniata</i> (Forsskål, 1775)	v	+	+
<i>C. sexmaculata</i> Rüppell, 1828	11	-	-
<i>C. spiloparaea</i> (Valenciennes, 1828)	-	-	+
<i>C. urodeta</i> (Schneider, 1801)	v	+	+
<i>Epinephelus fasciatus</i> (Forsskål, 1775)	16	-	+
<i>E. faveatus</i> (Valenciennes, 1828)	-	+	-
<i>E. hexagonatus</i> (Bloch & Schneider, 1801)	-	-	+
<i>E. lanceolatus</i> (Bloch, 1790)	-	-	+
<i>E. maculatus</i> (Bloch, 1790)	v	+	-
<i>E. melanostigma</i> Schultz, 1953	v	-	+
<i>E. merra</i> Bloch, 1793	16	+	+
<i>E. microdon</i> (Bleeker, 1856)	v	+	+
<i>E. ongus</i> (Bloch, 1790)	-	+	+
<i>E. spilotoceps</i> Schultz, 1953	-	+	-
<i>E. tukula</i> Morgans, 1959	-	+	+
<i>Gracila albimarginata</i> (Fowler & Bean, 1930)	-	+	+
<i>Liopropoma mitratum</i> Randall & Taylor, 1988	-	-	+
<i>L. multilineatum</i> Randall & Taylor, 1988	-	-	+
<i>L. susumi</i> (Jordan & Seale, 1906)	5,13	-	+
<i>Plectranthias longimanus</i> (Weber, 1913)	-	+	-
<i>Plectropomus areolatus</i> (Rüppell, 1830)	-	+	+
<i>P. laevis</i> (Lacepède, 1802)	-	+	+
<i>P. leopardus</i> (Lacepède, 1802)	v	+	-
<i>P. oligocanthus</i> (Bleeker, 1854)	-	+	-
<i>Pseudanthias dispar</i> (Herre, 1955)	v	-	-
<i>P. lori</i> Randall & Lubbock, 1981	-	-	+
<i>P. pleurotaenia</i> (Bleeker, 1875)	+	-	-
<i>P. sheni</i> Randall & Allen, 1989	-	+	+
<i>P. squamipinnis</i> (Peters, 1855)	5	-	-
<i>P. tuka</i> (Herre & Montalban, 1927)	5,C1	+	+
<i>Variola louti</i> (Forsskål, 1775)	v	-	-
<b>GRAMMISTIDAE</b>			
<i>Belonoperca chabanaudi</i> Fowler & Bean, 1930	-	+	-
<i>Grammistes sexlineatus</i> (Thünberg, 1792)	v	+	-

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Grammistops ocellatus</i> Schultz, 1953	13	-	-
<b>PSEUDOCROMIDAE</b>			
<i>Congrogadus subducens</i> (Richardson, 1843)	18	-	-
* <i>Labracinus cyclophthalmus</i> (Müller & Troschel, 1849)	2,10,15	-	-
<i>Pseudochromis bitaeniatus</i> (Fowler, 1931)	-	+	-
<i>P. fuscus</i> (Müller & Troschel, 1849)	2,7,8,10	+	+
<i>P. marshallensis</i> Schultz, 1953	5	-	-
* <i>P. melanotaenia</i> Bleeker, 1863	3	-	-
<i>P. paccagnellae</i> Axelrod, 1973	8,11	+	+
<i>P. tapeinosoma</i> Bleeker, 1853	3,16	+	+
<i>Pseudochromis</i> sp.	5,10,13	+	-
<i>Pseudoplesiops rosae</i> Schultz, 1943	7,10,13,C1	+	+
<i>P. typus</i> Bleeker, 1858	2	+	+
<i>P. sp. 1</i>	-	+	-
<i>P. sp. 2</i>	-	-	+
<i>P. sp. 3</i>	-	-	+
<b>PSEUDOGRAMMATIDAE</b>			
<i>Aporops bilinearis</i> Schultz, 1943	-	-	+
<i>Pseudogramma polyacantha</i> (Bleeker, 1856)	2	+	+
<b>PLESIOPIDAE</b>			
<i>Plesiops cephalotaenia</i> Inger, 1955	5,10	-	+
<i>P. coeruleolineatus</i> Rüppell, 1835	v	-	+
<i>Plesiops</i> sp.	2,5,10	+	+
<b>PRIACANTHIDAE</b>			
<i>Heteropriacanthus cruentatus</i> (Lacepède, 1800)	v	-	+
<i>Priacanthus macracanthus</i> Cuvier, 1829	-	+	-
<b>APOGONIDAE</b>			
<i>Apogon aureus</i> (Lacepède, 1802)	3,8,11	-	-
<i>A. bandanensis</i> Bleeker, 1854	18	+	-
* <i>A. chrysopomus</i> Bleeker, 1854	2,C1	-	-
<i>A. chrysotaenia</i> Bleeker, 1851	v	-	-
<i>A. coccineus</i> Rüppell, 1835	-	+	+
<i>A. compressus</i> (Smith & Radcliffe, 1911)	18	+	+
<i>A. crassiceps</i> Garman, 1903	3,5	-	+
<i>A. cyanosoma</i> Bleeker, 1853	v	+	-
<i>A. exostigma</i> Jordan & Starks, 1906	5,11,18	+	+
<i>A. fragilis</i> Smith, 1961	C1	-	-
<i>A. guamensis</i> Valenciennes, 1832	12,16	-	-
<i>A. kallopterus</i> Bleeker, 1856	11	+	+
<i>A. leptacanthus</i> Bleeker, 1856	-	+	+
<i>A. melas</i> Bleeker, 1848	8	-	+
<i>A. nigrofasciatus</i> Schultz, 1953	-	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>A. novemfasciatus</i> Cuvier, 1828	C2	-	+
<i>A. savayensis</i> Günther, 1871	v	+	+
<i>A. semilineatus</i> ? Schlegel, 1846	-	+	-
<i>A. taeniophorus</i> Regan 1908	-	+	-
<i>A. timorensis</i> Bleeker, 1873	12	-	-
<i>A. trimaculatus</i> Cuvier, 1828	11,12	+	+
* <i>A. sp.</i>	11,12	-	-
<i>Apogonichthys ocellatus</i> (Weber, 1913)	C2	-	+
<i>A. perdix</i> Bleeker, 1854	16	-	-
<i>Archamia fucata</i> (Cantor, 1850)	7	+	-
<i>A. dispilus</i> Lachner, 1951	5	-	-
<i>A. zosterophora</i> (Bleeker, 1856)	v	+	-
<i>Cercamia cremia</i> (Allen, 1987)	v	+	+
<i>Cheilodipterus artus</i> ? Smith, 1961	18	+	+
<i>C. macrodon</i> Lacepède, 1802	5,11,13,15,C1	+	+
<i>C. quinquelineata</i> Cuvier, 1828	v	+	+
<i>C. singapurensis</i> Bleeker, 1859	-	+	+
<i>Foa brachygramma</i> (Jenkins, 1903)	14	+	+
<i>Fowleria abocellata</i> Goren & Karplus, 1980	-	+	+
<i>F. aurita</i> (Valenciennes, 1831)	10	+	+
<i>F. marmorata</i> (Alleyne & Macleay, 1877)	14	-	+
<i>F. punctulata</i> (Rüppell, 1832)	v	-	+
<i>F. variegata</i> (Valenciennes, 1832)	12,14,15,18	-	-
<i>Gymnapogon urospilotus</i> Lachner, 1953	v	-	-
* <i>G. vanderbilti</i> (Fowler, 1938)	C3	-	-
<i>G. sp.</i>	-	-	+
<i>Neamia octospina</i> Smith & Radcliffe, 1912	-	+	-
<i>Pseudamia gelatinosa</i> Smith, 1955	15,18,C1	+	+
<i>Pseudamia sp.</i>	v	+	-
<i>Pseudamiops sp.</i>	C3	-	-
<i>Rhabdamia cypselurus</i> Weber, 1909	5	+	-
<i>R. gracilis</i> (Bleeker, 1856)	-	-	+
<i>Siphamia tubulata</i> (Weber, 1909)	-	-	+
<i>S. sp.</i>	-	+	-
MALACANTHIDAE			
<i>Hoplolatilus starcki</i> Randall & Dooley, 1974	-	-	+
<i>Malacanthus brevirostris</i> Guichenot, 1848	v	+	-
<i>M. latovittatus</i> (Lacepède, 1798)	v	-	+
CARANGIDAE			
<i>Carangoides compressus</i> ? (Day, 1870)	-	+	-
<i>C. ferdau</i> (Forsskål, 1775)	v	+	+
<i>C. fulvoguttatus</i> (Forsskål, 1775)	v	-	-
<i>C. plagiotaenia</i> Bleeker, 1857	8	-	-
<i>Caranx ignobilis</i> (Forsskål, 1775)	v	+	+
<i>C. lugubris</i> Poey, 1861	-	-	+
<i>C. melampygus</i> Cuvier, 1833	v	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Elegatis bipinnulatus</i> (Quoy & Gaimard, 1825)	v	-	+
<i>Scomberoides lysan</i> (Forsskål, 1775)	-	+	-
<i>Seriola dumerili</i> (Risso, 1810)	-	-	+
CAESIONIDAE			
<i>Caesio caerulea</i> Lacepède, 1802	v	+	-
<i>C. cuning</i> (Bloch, 1791)	8	-	-
<i>C. lunaris</i> Cuvier, 1830	v	-	+
<i>Caesio teres</i> Seale, 1906	v	+	+
<i>Pterocaesio diagramma</i> (Bleeker, 1865)	13	-	-
<i>P. pisang</i> (Bleeker, 1853)	-	+	-
<i>P. tile</i> (Cuvier, 1830)	v	-	+
LUTJANIDAE			
<i>Aphareus furca</i> (Lacepède, 1802)	-	+	+
<i>Aprion virescens</i> Valenciennes, 1830	v	-	+
<i>Lutjanus biguttatus</i> (Valenciennes, 1830)	-	+	-
<i>L. bohar</i> (Forsskål, 1775)	v	+	+
<i>L. decussatus</i> (Cuvier, 1828)	5	+	+
<i>L. fulviflamma</i> (Forsskål, 1775)	v	-	-
<i>L. fulvus</i> (Schneider, 1801)	14	-	-
<i>L. gibbus</i> (Forsskål, 1775)	20	+	+
<i>L. kasmira</i> (Forsskål, 1775)	8	+	+
<i>L. monostigma</i> (Cuvier, 1828)	14, C2	+	+
<i>L. quinquelineatus</i> (Bloch, 1790)	8	-	+
<i>L. rivulatus</i> (Cuvier, 1828)	v	+	+
<i>L. russelli</i> (Bleeker, 1849)	-	+	-
<i>Macolor macularis</i> Fowler, 1931	v	-	+
<i>M. niger</i> (Forsskål, 1775)	v	-	+
<i>Paracaesio xanthurus</i> (Bleeker, 1869)	-	+	-
<i>Symphorichthys spilurus</i> (Günther, 1874)	-	+	+
NEMIPTERIDAE			
<i>Pentapodus emeryi</i> (Richardson, 1843)	v	+	-
<i>Scolopsis affinis</i> Peters, 1876	8	+	-
<i>S. bilineatus</i> (Bloch, 1793)	5	+	+
<i>S. lineatus</i> Quoy & Gaimard, 1824	v	+	+
<i>S. margaritifera</i> (Cuvier, 1830)	v	+	-
<i>S. trilineatus</i> Kner, 1868	3	+	+
<i>S. xenochrous</i> Günther, 1872	v	-	-
GERREIDAE			
<i>Gerres oyena</i> (Forsskål, 1775)	14	-	+
HAEMULIDAE			
<i>Plectorhynchus chaetodontoides</i> Lacepède, 1800	v	+	+
<i>P. lineatus</i> (Linnaeus, 1758)	v	-	-
<i>P. orientalis</i> (Bleeker, 1793)	v	-	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<b>LETHRINIDAE</b>			
<i>Gnathodentex aurolineatus</i> Lacepède, 1802	v	+	+
<i>Gymnocranius grandoculus</i> (Valenciennes, 1830)	C1	+	-
<i>Lethrinus atkinsoni</i> Seale, 1909	-	+	-
<i>L. obsoletus</i> (Forsskål, 1775)	16	+	-
<i>L. olivaceus</i> Valenciennes, 1830	v	+	+
<i>L. rubrioperculatus</i> Sato, 1978	4	+	-
<i>L. sp.</i>	-	+	+
<i>Monotaxis grandoculis</i> (Forsskål, 1775)	13	+	+
<b>MULLIDAE</b>			
<i>Mulloides flavolineatus</i> (Lacepède, 1802)	14	+	+
<i>M. vanicolensis</i> (Valenciennes, 1831)	v	-	+
<i>Parupeneus barberinoides</i> (Bleeker, 1852)	v	-	-
<i>P. barberinus</i> (Lacepède, 1802)	3	+	+
<i>P. bifasciatus</i> (Lacepède, 1801)	v	+	+
<i>P. cyclostomus</i> (Lacepède, 1802)	v	-	+
<i>P. indicus</i> (Shaw, 1803)	v	-	-
<i>P. multifasciatus</i> Bleeker, 1873	2	+	+
<i>Upeneus tragula</i> Richardson, 1846	v	+	-
<b>KYPHOSIDAE</b>			
<i>Kyphosus bigibbus</i> Lacepède, 1801	v	-	-
<i>K. cinerascens</i> (Forsskål, 1775)	v	-	-
<b>PEMPHERIDAE</b>			
<i>Parapriacanthus ransonneti</i> Steindachner, 1870	5,C1	+	+
<i>Pempheris oualensis</i> (Cuvier, 1831)	13	+	+
<b>EPHIPPIDAE</b>			
<i>Platax batavianus</i> Cuvier, 1831	-	+	-
<i>P. orbicularis</i> (Forsskål, 1775)	v	+	-
<i>P. teire</i> (Forsskål, 1775)	v	-	+
<b>CHAETODONTIDAE</b>			
<i>Chaetodon adiergastos</i> Seale, 1910	v	+	+
<i>C. auriga</i> Forsskål, 1775	3	+	+
<i>C. baronessa</i> Cuvier, 1831	v	+	-
<i>C. bennetti</i> Cuvier, 1831	v	+	+
<i>C. citrinellus</i> Cuvier, 1831	v	+	+
<i>C. ephippium</i> Cuvier, 1831	v	+	+
<i>C. kleinii</i> Bloch, 1790	5	+	+
<i>C. lineolatus</i> Cuvier, 1831	v	-	+
<i>C. lunula</i> Lacepède, 1803	C2	+	+
<i>C. melannotus</i> Schneider, 1801	2	+	+
<i>C. meyeri</i> Schneider, 1801	v	+	-

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>C. ornatissimus</i> Cuvier, 1831	v	+	+
<i>C. pelewensis</i> Kner, 1868	-	+	-
<i>C. punctatofasciatus</i> Cuvier, 1831	5	+	+
<i>C. rafflesi</i> Bennett, 1830	v	+	-
<i>C. semeion</i> Bleeker, 1855	v	+	+
<i>C. speculum</i> Cuvier, 1831	v	+	+
<i>C. trifascialis</i> Quoy & Gaimard, 1824	15	+	+
<i>C. trifasciatus</i> Park, 1797	2	+	+
<i>C. ulietensis</i> Cuvier, 1831	v	+	+
<i>C. unimaculatus</i> Bloch, 1787	-	-	+
<i>C. vagabundus</i> Linnaeus, 1758	3	+	-
<i>Coradion altivelis</i> McCulloch, 1916	-	+	-
<i>C. chrysozonus</i> Cuvier, 1831	v	-	-
<i>Forcipiger flavissimus</i> Jordan & McGregor, 1898	17	+	+
<i>Hemitaenichthys polylepis</i> (Bleeker, 1857)	-	-	+
<i>Heniochus acuminatus</i> (Linnaeus, 1758)	-	-	+
<i>H. chrysostomus</i> Cuvier, 1831	v	+	+
<i>H. singularis</i> Smith & Radcliffe, 1911	-	-	+
<i>H. varius</i> (Cuvier, 1829)	v	+	+
<b>POMACANTHIDAE</b>			
<i>Apolemichthys trimaculatus</i> (Lacepède, 1831)	v	+	+
<i>Centropyge bicolor</i> (Bloch, 1798)	8	+	+
<i>C. bispinosus</i> (Günther, 1860)	8	+	+
<i>C. eibli</i> Klausowitz, 1963	-	-	+
<i>C. flavicauda</i> Fraser-Brunner, 1933	17	+	-
<i>C. nox</i> (Bleeker, 1853)	-	+	-
<i>C. tibicen</i> (Cuvier, 1831)	11	+	-
<i>C. vroliki</i> (Bleeker, 1853)	5	+	-
<i>Genicanthus lamarck</i> Lacepède, 1798	v	-	-
<i>G. melanospilos</i> (Bleeker, 1857)	-	-	+
<i>Pomacanthus imperator</i> (Bloch, 1787)	v	+	-
<i>P. navarchus</i> Cuvier, 1831	v	+	+
<i>P. semicirculatus</i> Cuvier, 1831	v	-	-
<i>P. sexstriatus</i> Cuvier, 1831	-	+	+
<i>P. xanthometopon</i> (Bleeker, 1853)	-	+	+
<i>Pygoplites diacanthus</i> (Boddaert, 1772)	5	+	+
<b>POMACENTRIDAE</b>			
<i>Abudefduf septemfasciatus</i> (Cuvier, 1830)	C2	-	-
<i>A. sexfasciatus</i> Lacepède, 1802	v	-	-
<i>A. sordidus</i> Forsskal, 1775	v	-	-
<i>A. vaigiensis</i> (Quoy & Gaimard, 1825)	13,20	+	+
<i>Acanthochromis polyacantha</i> (Bleeker, 1855)	8	-	-
<i>Amblyglyphidodon aureus</i> (Cuvier, 1830)	8	+	+
<i>A. curacao</i> (Bloch, 1787)	2	-	+
<i>A. leucogaster</i> (Bleeker, 1847)	8	+	-

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<i>Amphiprion clarkii</i> (Bennett, 1830)	12	+	+
<i>A. melanopus</i> Bleeker, 1852	6	-	-
<i>A. ocellaris</i> (Cuvier, 1830)	2,3,16	+	-
<i>A. perideraion</i> Bleeker, 1855	15	-	+
<i>A. sandaracinos</i> Allen, 1972	v	-	+
<i>Chromis alpha</i> Randall, 1988	v	+	+
<i>C. amboinensis</i> (Bleeker, 1873)	5	-	+
<i>C. analis</i> (Cuvier, 1830)	-	-	+
<i>C. atripectoralis</i> Welander & Schultz, 1951	v	+	+
<i>C. aripes</i> Fowler & Bean, 1928	5	+	+
<i>C. elerae</i> Fowler & Bean, 1928	-	-	+
<i>C. lepidolepis</i> Bleeker, 1877	5	-	+
<i>C. margaritifer</i> Fowler, 1946	v	+	+
<i>C. ternatensis</i> (Bleeker, 1856)	v	+	+
<i>C. vanderbilti</i> Fowler, 1941	-	+	-
<i>C. viridis</i> (Cuvier, 1830)	v	+	+
<i>C. weberi</i> Fowler, & Bean, 1928	5	+	+
<i>C. xanthochira</i> (Bleeker, 1851)	8	-	-
<i>C. xanthura</i> (Bleeker, 1854)	5,8	+	+
<i>Chrysiptera biocellatus</i> (Quoy & Gaimard, 1824)	12	+	+
<i>C. caruleolineata</i> (Allen, 1973)	-	-	+
<i>C. cyanea</i> (Quoy & Gaimard, 1824)	3	+	+
<i>C. glauca</i> (Cuvier, 1830)	3	-	+
<i>C. hemicyanea</i> (Weber, 1913)	2	+	+
<i>C. leucopoma</i> (Lesson, 1830)	3	+	+
<i>C. rex</i> (Snyder, 1909)	v	+	-
<i>C. rollandi</i> (Whitley, 1961)	2	-	-
<i>C. talboti</i> (Allen, 1975)	5	-	-
<i>Dascyllus aruanus</i> (Linnaeus, 1758)	v	+	+
<i>D. melanurus</i> Bleeker, 1854	v	-	-
<i>D. reticulatus</i> (Richardson, 1846)	C3	+	+
<i>D. trimaculatus</i> (Rüppell, 1928)	C3	+	+
<i>Dischistodus chrysopoecilus</i> (Schlegel & Müller, 1839)	12	-	-
<i>D. melanotus</i> (Bleeker, 1858)	v	-	-
<i>D. perspicillatus</i> (Cuvier, 1830)	v	+	+
<i>D. prosopotaenia</i> (Bleeker, 1852)	v	+	+
<i>Hemiglyphidodon plagiometopon</i> (Bleeker, 1852)	v	+	+
<i>Lepidozygus tapeinosoma</i> Bleeker, 1856	11	-	-
<i>Neoglyphidodon melas</i> (Cuvier, 1830)	v	+	-
<i>N. nigroris</i> (Cuvier, 1830)	2	+	-
<i>N. oxyodon</i> (Bleeker, 1857)	3,16	-	-
<i>Neopomacentrus azyrson</i> (Bleeker, 1877)	13	-	-
<i>Plectroglyphidodon dickii</i> (Lienard, 1839)	v	+	+
<i>P. imparipennis</i> (Vaillant & Sauvage, 1875)	-	+	-
<i>P. johnstonianus</i> Fowler, & Ball, 1924	v	+	+

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<i>P. lacrymatus</i> (Quoy & Gaimard, 1824)	v	+	+
<i>P. leucozona</i> (Bleeker, 1859)	20	+	-
<i>Pomacentrus alexanderae</i> Evermann & Seale, 1907	5	+	-
<i>P. amboinensis</i> Bleeker, 1868	5	+	-
<i>P. bankanensis</i> Bleeker, 1853	v	+	+
<i>P. chrysurus</i> Cuvier, 1830	3	+	-
<i>P. coelestis</i> Jordan & Starks, 19011	7	-	+
<i>P. grammorhynchus</i> Fowler, 1918	v	-	+
<i>P. lepidogenys</i> Fowler & Bean, 1928	7	+	-
<i>P. molluccensis</i> Bleeker, 1853	v	+	+
<i>P. nagasakiensis</i> Tanaka, 1917	2,3	+	+
<i>P. nigromarginatus</i> Allen, 1973	-	-	+
<i>P. pavo</i> (Bloch, 1878)	-	+	+
<i>P. philippinus</i> Evermann & Seale, 1907	5,13	+	+
<i>P. reidi</i> Fowler, & Bean, 1928	8	+	-
<i>P. vaiuli</i> Jordan & Seale, 1906	v	+	+
<i>Pomachromis richardsoni</i> (Snyder, 1909)	-	+	+
<i>Stegastes albifasciatus</i> (Schlegel & Müller, 1839)	v	+	-
<i>S. fasciolatus</i> (Ogilby, 1889)	v	-	+
<i>S. lividus</i> (Bloch & Schneider, 1801)	v	+	+
<i>S. nigricans</i> (Lacepède, 1802)	v	+	+
<b>CIRRHITIDAE</b>			
<i>Cirrhitichthys oxycephalus</i> (Bleeker, 1855)	v	+	-
<i>Oxycirrhitis typus</i> Bleeker, 1857	11	+	-
<i>Paracirrhites arcatus</i> (Cuvier, 1829)	v	+	+
<i>P. forsteri</i> (Schneider, 1801)	v	+	+
<b>SPHYRAENIDAE</b>			
<i>Sphyraena flavicauda</i> Rüppell, 1838	v	-	-
<i>S. barracuda</i> (Walbaum, 1792)	-	+	+
<b>MUGILIDAE</b>			
<i>Liza vaigiensis</i> (Quoy & Gaimard, 1825)	v	-	-
<b>LABRIDAE</b>			
<i>Anampses caeruleopunctatus</i> Rüppell, 1828	v	-	+
<i>A. melanurus</i> Bleeker, 1857	-	+	-
<i>A. neoguinaicus</i> Bleeker, 1878	-	-	+
<i>A. twistii</i> Bleeker, 1856	v	-	-
<i>Bodianus axillaris</i> (Bennett, 1831)	v	+	+
<i>B. diana</i> (Lacepède, 1802)	8	+	-
<i>B. mesothorax</i> Schneider, 1801	v	-	-
<i>Cheilinus celebicus</i> Bleeker, 1853	2	+	+
<i>C. chlorurus</i> (Bloch, 1791)	10,12,16	+	-
<i>C. diagrammus</i> (Lacepède, 1802)	8	+	+



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<i>C. fasciatus</i> (Bloch, 1791)	8	+	+
<i>C. trilobatus</i> Lacepède, 1802	2	+	+
<i>C. undulatus</i> Rüppell, 1835	v	+	+
<i>C. unifasciatus</i> Streets, 1878	v	-	+
<i>Cheilio inermis</i> Forsskal, 1775	16	-	-
<i>Cirrhitlabrus cyanopleura</i> (Bleeker, 1851)	5	+	+
<i>C. sp.</i>	-	+	-
<i>C. exquisitus</i> Smith, 1957	C3	-	+
<i>Conniella apterygia</i> Allen, 1983	-	+	+
<i>Coris aygula</i> Lacepède, 1802	v	+	+
<i>C. gaimard</i> (Quoy & Gaimard, 1824)	v	+	+
<i>C. schroederi</i> (Bleeker, 1858)	8	+	-
<i>Cymolutes praetextatus</i> (Quoy & Gaimard, 1824)	14	-	+
<i>Epibulus insidiator</i> (Pallas, 1770)	18	+	+
<i>Gomphosus varius</i> Lacepède, 1802	v	+	+
<i>Halichoeres biocellatus</i> Schultz, 1960	-	-	+
<i>H. chrysus</i> Randall, 1980	C1	+	-
<i>H. hartzfeldi</i> Bleeker, 1852	C4	-	-
<i>H. hortulanus</i> (Lacepède, 1802)	v	+	+
<i>H. margaritaceus</i> (Valenciennes, 1839)	3	+	+
<i>H. marginatus</i> Rüppell, 1835)	3	+	+
<i>H. melanurus</i> Bleeker, 1853	2	+	-
<i>H. melasmopomus</i> Randall, 1980	-	-	+
<i>H. nebulosus</i> Valenciennes, 1839	v	-	-
<i>H. ornatissimus</i> (Garrett, 1863)	C4	-	-
<i>H. prosopion</i> Bleeker, 1853	v	+	-
<i>H. scapularis</i> Bennett, 1832	14	-	-
<i>H. trimaculatus</i> Griffith, 1834	14	+	+
<i>Hemigymnus fasciatus</i> Bloch, 1792	v	+	-
<i>H. melapterus</i> Bloch, 1791	v	+	+
<i>Hologymnosus doliatus</i> Lacepède, 1801	v	-	-
<i>Labrichthys unilineatus</i> (Guichenot, 1847)	v	+	+
<i>Labroides dimidiatus</i> (Valenciennes, 1839)	v	+	+
<i>L. bicolor</i> Fowler & Bean, 1928	13	-	+
<i>L. pectoralis</i> Randall & Springer, 1975	-	+	+
<i>Labropsis manabei</i> Schmidt, 1930	-	+	-
<i>L. xanthonota</i> Randall, 1981	-	-	+
<i>Macropharyngodon meleagris</i> (Valenciennes, 1839)	-	+	-
<i>M. ornatus</i> Randall, 1978	15, C1	-	+
<i>Novaculichthys taeniourus</i> (Lacepède, 1802)	3, 16	+	-
<i>Pseudocheilinus evanidus</i> Jordan & Evermann, 1902	5	+	+
<i>P. hexataenia</i> (Bleeker, 1857)	2	+	+
<i>P. octotaenia</i> Jenkins 1899	15	-	+
<i>Pseudocoris yamashiroi</i> (Schmidt, 1930)	C4	+	+
<i>Pseudodax moluccanus</i> (Valenciennes, 1840)	v	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Pteragogus cryptus</i> Randall, 1981	-	-	+
<i>Stethojulis bandanensis</i> (Bleeker, 1851)	3	+	+
<i>S. interrupta</i> (Bleeker, 1851)	3	-	-
<i>S. strigiventer</i> (Bennett, 1832)	12,16	+	+
<i>Thalassoma amblycephalum</i> (Bleeker, 1856)	v	+	+
<i>T. hardwickei</i> (Bennett, 1830)	v	+	+
<i>T. janseni</i> Bleeker, 1856	v	-	-
<i>T. lunare</i> (Linnaeus, 1758)	v	+	-
<i>T. quinquevittatum</i> (Lay & Bennett, 1839)	3	+	+
<i>T. trilobarum</i> (Lacepède, 1801)	-	+	+
<i>Wetmorella albofasciata</i> Schultz & Marshall, 1954	2	-	+
<i>W. nigropinnata</i> (Seale, 1901)	-	+	+
<i>Xyrichtys</i> sp.	-	-	+
SCARIDAE			
<i>Bolbometopon muricatum</i> (Valenciennes, 1840)	-	-	+
<i>Calotomus carolinus</i> (Valenciennes, 1839)	16	+	-
<i>Cetoscarus bicolor</i> (Rüppell, 1828)	8	+	+
<i>Hipposcarus longiceps</i> (Bleeker, 1862)	v	+	+
<i>Scarus bleekeri</i> (de Beaufort, 1940)	v	+	-
<i>S. fasciatus</i> Valenciennes, 1839	-	-	+
<i>S. flavipectoralis</i> Schultz, 1958	-	+	-
<i>S. forsteni</i> (Bleeker, 1861)	v	+	-
<i>S. frenatus</i> Lacepède, 1802	v	+	+
<i>S. globiceps</i> Valenciennes, 1840	-	-	+
<i>S. microrhinos</i> Bleeker, 1854	v	+	+
<i>S. niger</i> , Forsskål, 1775	2	+	-
<i>S. oviceps</i> Valenciennes, 1839	v	-	+
<i>S. prasiognathus</i> Valenciennes, 1840	-	-	+
<i>S. psittacus</i> Forsskål, 1775	-	+	+
<i>S. rubroviolaceus</i> Bleeker, 1849	v	+	+
<i>S. scaber</i> Valenciennes, 1840	v	+	-
<i>S. schlegeli</i> (Bleeker, 1861)	v	-	-
<i>S. sordidus</i> Forsskål, 1775	v	+	+
MUGILOIDIDAE			
<i>Parapercis clathrata</i> Ogilby, 1911	v	-	+
<i>P. cylindrica</i> (Bloch, 1792)	16	-	-
<i>P. hexophthalma</i> (Cuvier, 1829)	7	+	-
<i>P. multiplicata</i> Randall, 1984	C3	-	-
<i>P. schauinslandi</i> ? (Steindachner, 1900)	-	-	+
<i>P. sp.</i>	-	+	-
CREEDIIDAE			
<i>Limnichthys donaldsoni</i> Schultz, 1960	-	-	+
BLENNIIDAE			
<i>Aspidontus taeniatus</i> Quoy & Gaimard, 1834	8	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Atrosalarias fuscus</i> (Rüppell, 1835)	7,18	+	+
<i>Cirripectes castaneus</i> Valenciennes, 1836	-	-	+
<i>C. polyzona</i> (Bleeker, 1868)	-	-	+
<i>C. stigmaticus</i> Strasburg & Schultz, 1953	-	+	-
<i>Ecsenius bicolor</i> (Day, 1888)	5,11	+	+
<i>E. alleni</i> Springer, 1988	-	+	+
<i>E. schroederi</i> McKinney & Springer, 1976	-	+	+
* <i>E. trilineatus</i> Springer, 1972	C1	-	-
<i>E. yaeyamaensis</i> (Aoyagi, 1954)	2	-	-
<i>Enchelyurus kraussi</i> (Klunzinger, 1871)	-	-	+
<i>Exallias brevis</i> (Kner, 1868)	-	+	-
<i>Glyptoparus delicatulus</i> Smith, 1959	-	-	+
<i>Istiblennius chrysopilus</i> (Bleeker, 1857)	-	-	+
<i>I. edentulus</i> Bloch & Schneider, 1801	C2	+	-
<i>I. lineatus</i> (Valenciennes, 1836)	C2	-	-
<i>I. periophthalmus</i> (Valenciennes, 1836)	3,16	+	+
<i>Meiacanthus atrodorsalis</i> Günther, 1877	11	+	+
<i>M. ditrema</i> Smith-Vaniz, 1976	-	+	+
<i>M. grammistes</i> (Valenciennes, 1836)	13	+	+
<i>Nannosalarias nativitatus</i> (Regan, 1909)	-	-	+
<i>Petroscirtes breviceps</i> (Valenciennes, 1836)	-	-	+
<i>P. xestus</i> Jordan & Seale, 1906	-	-	+
<i>Plagiotremus laudandus</i> (Whitley, 1961)	5	+	+
<i>P. rhinorhynchus</i> (Bleeker, 1852)	5	+	+
<i>P. tapeinosoma</i> (Bleeker, 1857)	v	+	+
<i>Salarias fasciatus</i> (Bloch, 1786)	-	+	+
<i>S. sinuosus</i> Snyder, 1908	3	-	-
<i>S. sp. 1</i>	3	+	-
<i>S. sp. 2</i>	-	+	-
NOTOGRAPTIDAE			
* <i>Notograptus sp.</i>	3,10	-	-
TRIPTERYGIIDAE			
<i>Enneapterygius pusillus</i> ? (Rüppell, 1835)	-	-	+
<i>E. sp. 1</i>	2,16	-	-
<i>E. sp. 2</i>	3,16,20	-	-
<i>E. sp. 3</i>	3,16	-	-
<i>E. sp. 4</i>	13	-	-
<i>E. sp. 5</i>	7	-	-
<i>Helcogramma trigloides</i> ? (Bleeker, 1858)	-	+	+
<i>H. sp. 1</i>	2,8,15	-	-
<i>H. sp. 2</i>	5,10,13	-	-
<i>H. sp. 3</i>	-	+	-
<i>Norfolkia springeri</i> ? Clark, 1979	-	-	+
<i>N. sp.</i>	-	+	-
New genus and species	-	+	+

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<b>CALLIONYMIDAE</b>			
<i>Callionymus delicatulus</i> Smith, 1963	2,12	-	-
<i>C. sp. 1</i>	C3	-	-
<i>C. sp. 2</i>	-	+	-
<i>C. sp. 3</i>	-	+	-
<i>Diplogrammus xenicus</i> (Jordan & Thompson, 1914)	-	-	+
<i>Synchiropus splendidus</i> (Herre, 1927)	-	-	+
<i>S. stellatus</i> Smith, 1963	-	-	+
<b>GOBIIDAE</b>			
<i>Amblyeleotris fasciata</i> (Herre, 1953)	6,C4	-	-
<i>A. guttatus</i> Fowler, 1938	-	+	-
<i>A. steinitzi</i> Klauswitz, 1974	-	-	+
<i>A. wheeleri</i> (Polunin & Lubbock, 1977)	-	+	-
<i>A. sp.</i>	-	+	-
<i>Amblygobius decussatus</i> (Bleeker, 1855)	-	+	-
<i>A. nocturnus</i> (Herre, 1945)	-	-	+
<i>A. phalaena</i> (Valenciennes, 1837)	16	-	+
<i>A. rainfordi</i> (Whitley, 1940)	2,15	+	+
<i>Asterropteryx semipunctatus</i> Ruppell, 1830	-	+	+
<i>A. spinosus</i> (Goren, 1981)	2	-	+
<i>A. sp.</i>	-	+	-
<i>Bathygobius cyclopterus</i> (Valenciennes, 1837)	12	-	-
<i>B. padangensis</i> (Bleeker, 1851)	14,C2,12	-	+
<i>Bryaninops natans</i> Larson, 1986	-	+	+
<i>B. nexus</i> Larson, 1987	-	+	+
<i>B. yongei</i> (Davis & Cohen, 1968)	-	+	-
<i>Cabillus tongarevae</i> (Fowler, 1927)	3	-	-
<i>C. sp.</i>	-	-	-
<i>Callogobius centrolepis</i> Weber, 1909	13	-	-
<i>C. maculipinnis</i> (Fowler, 1918)	-	-	+
<i>C. sclateri</i> (Steindachner, 1880)	8,10	-	+
<i>C. plumatus</i> (Smith, 1959)	-	-	+
<i>C. sp. (DFH-5)</i>	-	-	+
<i>C. sp. (DFH-6)</i>	-	-	+
<i>C. sp. (DFH-7)</i>	-	-	+
<i>C. sp. (DFH-11)</i>	-	-	+
<i>C. sp.</i>	-	+	-
<i>Cryptocentrus cinctus</i> (Herre, 1936)	2	-	-
<i>C. strigiliceps</i> (Jordan & Seale, 1906)	v	-	-
<i>Ctenogobiops aurocingulus</i> (Herre, 1935)	-	-	+
<i>C. crocineus</i> Smith, 1959	11	+	-
<i>C. feroculus</i> Lubbock & Polunin, 1977	2	-	+
<i>C. pomastictus</i> Lubbock & Polunin, 1977	2	+	-
<i>Discordipinna griessingeri</i> Hoese and Fourmanoir, 1978	-	+	-
<i>Eviota afelei</i> Jordan & Seale, 1906	3	-	-

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>E. cometa</i> Jewett & Lachner, 1983	-	+	-
<i>E. distigma</i> Jordan & Seale, 1906	18	-	-
<i>E. herrei</i> Jordan & Seale, 1906	-	+	-
<i>E. infulata</i> (Smith, 1956)	-	+	+
<i>E. lachdeberei</i> Giltay, 1933	-	+	+
<i>E. latifasciata</i> Jewett & Lachner, 1983	2	-	-
<i>E. melasma</i> Lachner & Karanella, 1980	2,7	+	-
<i>E. nebulosa</i> Smith, 1958	17	-	-
<i>E. nigriventris</i> Giltay, 1933	-	+	+
<i>E. pellucida</i> Larson, 1976	-	-	+
<i>E. prasina</i> (Klunzinger, 1871)	16	-	-
<i>E. prasites</i> Jordan & Seale, 1906	-	+	-
<i>E. punctulata</i> Jewett & Lachner, 1983	2	-	-
<i>E. queenslandica</i> Whitley, 1932	3	-	-
<i>E. sigillata</i> Jewett & Lachner, 1983	-	+	-
<i>E. smaragdus</i> Jordan & Seale, 1906	-	+	-
<i>E. sparsa</i> Jewett & Lachner, 1983	5,8	-	-
<i>E. spilota</i> Lachner & Karanella, 1980	2,18	+	-
<i>E. zonura</i> Jordan & Seale, 1906	3,20	-	-
<i>E. sp.</i> 1	8	-	-
<i>E. sp.</i> 2	17	-	-
<i>E. sp.</i> 3	-	+	-
<i>E. sp.</i> 4	-	+	-
<i>Exyrias bellissimus</i> (Smith, 1959)	2	-	+
<i>Fusigobius duospilus</i> Hoese & Reader, 1985	-	-	+
<i>F. neophytes</i> (Günther, 1877)	v	+	+
<i>F. sp.</i> (DFH sp. 4)	11,13,C1	-	-
<i>F. sp.</i> (DFH sp. 3)	-	-	+
<i>F. sp.</i> (DFH sp. 8)	11	-	-
<i>F. sp.</i>	C1	-	-
<i>Gnatholepis cauerensis</i> (Bleeker, 1853)	14,C2	-	-
<i>G. scapulostigma</i> Herre, 1953	11	-	+
<i>G. sp.</i>	-	+	-
<i>Gobiodon albofasciatus</i> Sawada & Arai, 1972	-	-	+
<i>G. citrinus</i> (Rüppell, 1838)	18	-	-
<i>G. okinawae</i> Sawada, Arai & Abe, 1973	10	+	+
<i>G. quinquestrigatus</i> (Valenciennes, 1837)	-	-	+
<i>G. sp.</i> 1	-	-	+
<i>G. sp.</i> 2	-	+	-
<i>G. sp.</i> 3	-	+	-
<i>G. sp.</i> 4	-	+	-
<i>Gobiopsis angustifrons</i> Lachner & McKinney, 1978	15	-	-
<i>Istigobius decoratus</i> (Herre, 1927)	2,12,13	-	-
<i>I. goldmanii</i> (Bleeker, 1852)	3	-	-
<i>I. ornatus</i> (Rüppell, 1830)	-	-	+
<i>I. rigilius</i> (Herre, 1953)	-	-	+
<i>I. sp.</i>	-	+	-

	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Lotilia graciliosa</i> Klausewitz, 1960	-	-	+
<i>Macrodontogobius wilburi</i> Herre, 1936	2,18	+	+
<i>Oplopomops diacanthus</i> Schultz, 1943	18	-	-
<i>Paragobiodon echinocephalus</i> Rüppell, 1830	-	+	+
<i>P. melanosomus</i> (Bleeker, 1852)	-	+	-
<i>P. modestus</i> (Regan, 1908)	7	-	-
<i>P. xanthosomus</i> (Bleeker, 1852)	16	+	-
<i>P. sp. 1</i>	10	-	-
<i>P. sp. 2</i>	10	-	-
<i>P. sp. 3</i>	10	-	-
<i>P. sp. 4</i>	2	-	-
<i>Pleurosicya coerulea</i> Larson, 1990	L	+	+
<i>P. elongata</i> Larson, 1990	L	-	-
<i>P. fringilla</i> Larson, 1990	L	+	-
<i>P. labiata</i> (Weber, 1913)	L	-	-
<i>P. plicata</i> Larson, 1990	-	+	-
<i>P. prognatha</i> Goren, 1984	-	+	+
<i>Priolepis cinctus</i> (Regan, 1908)	-	+	-
<i>P. semidoliatus</i> (Valenciennes, 1837)	3,C2,11,15	+	-
<i>Signigobius biocellatus</i> Hoese & Allen, 1977	2,18	-	-
<i>Sueviota lachneri</i> Larson	14	-	-
<i>Trimma emeryi</i> Winterbottom, 1984	-	-	+
<i>T. eviotops</i> Schultz, 1945	2,7	-	-
<i>T. fraena</i> Winterbottom, 1983	18	-	-
<i>T. naudei</i> Smith, 1956	5,8,13	-	-
<i>T. okinawae</i> (Aoyagi, 1949)	5,7,8	+	+
<i>T. sheppardi</i> Winterbottom, 1983	9	-	-
<i>T. striata</i> (Herre, 1945)	2,8	-	-
<i>T. tevegae</i> Cohen & Davis, 1969	-	-	+
<i>T. winchi</i> Winterbottom, 1983	-	-	+
<i>T. sp. 1</i>	8	-	-
<i>T. sp. 2</i>	8	-	-
<i>T. sp. 3</i>	8	-	-
<i>T. sp. 4</i> (DFH-2)	-	+	-
<i>T. sp. 5</i> (DFH-4)	-	-	+
<i>T. sp. 6</i> (DFH-9)	-	+	-
<i>T. sp. 7</i>	-	-	+
<i>T. sp. 8</i>	-	-	+
<i>T. sp. 9</i>	-	-	+
<i>T. sp. 10</i>	-	+	-
<i>T. sp. 11</i>	-	+	-
<i>Trimmatom nanus</i> ? Winterbottom & Emery, 1981	-	+	-
<i>Valenciennesa longipinnis</i> (Lay & Bennett, 1839)	14	-	+
<i>V. puellaris</i> Tomiyama, 1936	13	-	-
<i>V. strigata</i> (Broussonet, 1782)	10	+	-
<i>Vanderhorstia</i> sp.	-	-	+

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<b>ELEOTRIDAE</b>			
<i>Calumia profunda</i> Larson & Hoese, 1980	-	-	+
<i>Xenisthmus clarus</i> (Jordan & Seale, 1906)	16	-	-
<i>X. polyzonatus</i> (Klunzinger, 1871)	8,15,17	-	-
<i>X. sp. 1</i>	-	-	+
<i>X. sp. 2</i>	-	-	+
<b>KRAEMERIDAE</b>			
<i>Kraemeria samoensis</i> Steindachner, 1906	14	-	-
<b>MICRODESMIDAE</b>			
<i>Gunnelichthys copleyi</i> (Smith, 1951)	12	-	-
<i>G. irideus</i> Smith, 1958	-	+	-
<i>G. pleurotaenia</i> Bleeker, 1858	-	-	+
<i>Nemateleotris magnifica</i> Fowler, 1938	11	+	+
<i>Ptereleotris evides</i> (Jordan & Hubbs, 1925)	v	+	+
<i>P. heteroptera</i> (Bleeker, 1855)	C3	+	-
<i>P. microlepis</i> (Bleeker, 1849)	-	+	-
<i>P. zebra</i> (Fowler, 1938)	v	-	+
<b>ACANTHURIDAE</b>			
* <i>Acanthurus bariene</i> Lesson, 1830	8	-	-
<i>A. blochi</i> Valenciennes, 1835	v	+	+
<i>A. dussumieri</i> Valenciennes, 1835	-	+	+
<i>A. lineatus</i> (Linnaeus, 1758)	v	+	+
<i>A. nigricans</i> (Linnaeus, 1758)	v	+	+
<i>A. nigricaudus</i> Duncker & Mohr, 1929	10,20	-	+
<i>A. nigrofuscus</i> (Forsskål, 1775)	-	+	+
<i>A. olivaceus</i> Bloch & Schneider, 1801	v	+	+
<i>A. pyroferus</i> Kittlitz, 1834	v	+	-
<i>A. thompsoni</i> (Fowler, 1923)	-	+	+
<i>A. triostegus</i> (Linnaeus, 1758)	3	+	+
<i>A. xanthopterus</i> Valenciennes, 1835	14	+	+
<i>Ctenochaetus binotatus</i> Randall, 1955	15	+	+
<i>C. striatus</i> (Quoy & Gaimard, 1824)	v	+	+
<i>C. strigosus</i> (Bennett, 1828)	v	+	-
<i>Naso brevirostris</i> (Valenciennes, 1835)	16	+	+
<i>N. hexacanthus</i> (Bleeker, 1855)	v	+	+
<i>N. lituratus</i> (Bloch & Schneider, 1801)	v	+	+
* <i>N. maculatus</i> Randall & Struhsaker, 1981	v	-	-
<i>N. tuberosus</i> Lacepède, 1801	v	-	-
<i>N. unicornis</i> Forsskål, 1775	v	+	+
<i>N. vlamingii</i> Valenciennes, 1835	v	+	+
<i>Zebrasoma scopas</i> Cuvier, 1829	5	+	+
<i>Z. veliferum</i> Bloch, 1797	v	+	+
<b>ZANCLIDAE</b>			
<i>Zanclus cornutus</i> Linnaeus, 1758	v	-	+

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<b>SIGANIDAE</b>			
<i>Siganus argenteus</i> (Quoy & Gaimard, 1824)	v	-	-
<i>S. doliatus</i> Cuvier, 1830	v	+	+
<i>S. fuscescens</i> (Houttyn, 1782)	-	+	-
<i>S. puellus</i> (Schlegel, 1852)	v	+	+
<i>S. punctatissimus</i> Fowler & Bean, 1929	v	+	-
<i>S. unimaculatus</i> (Evermann & Seale, 1907)	-	-	+
<i>S. vulpinus</i> (Schlegel & Müller, 1844)	v	+	+
<b>SCOMBRIDAE</b>			
<i>Acanthocybium solandri</i> (Cuvier, 1831)	-	+	+
<i>Grammatorcynus bilineatus</i> (Quoy & Gaimard, 1824)	-	+	-
<i>Gymnosarda unicolor</i> (Rüppell, 1836)	v	+	+
<i>Scomberomorus commerson</i> (Lacepède, 1800)	-	-	+
<i>Thunnus albacares</i> (Bonnaterre, 1788)	-	-	+
<b>ISTIOPHORIDAE</b>			
<i>Istiophorus platypterus</i> (Shaw and Nodder, 1792)	v	-	+
<b>NOMEIIDAE</b>			
<i>Psenes cyanophrys</i> Valenciennes, 1833	-	-	+
<b>BOTHIDAE</b>			
<i>Bothus mancus</i> Broussonet, 1782	3	+	+
<i>B. pantherinus</i> (Rüppell, 1828)	3,14	-	-
<b>PLEURONECTIDAE</b>			
<i>Samariscus triocellatus</i> Woods, 1960	13	-	+
<b>SOLEIDAE</b>			
<i>Aesopia heterorhinos</i> (Bleeker, 1856)	12	-	+
<i>Liachirus whitleyi</i> Chabanaud, 1950	-	-	+
<i>Soleichthys</i> sp.	14	-	-
<i>Synaptura aspilus</i> Bleeker, 1852	2	-	-
<b>BALISTIDAE</b>			
<i>Balistapus undulatus</i> (Park, 1797)	3	+	+
<i>Balistoides conspicillum</i> (Bloch & Schneider, 1801)	v	+	-
<i>Melichthys niger</i> (Bloch, 1786)	-	+	+
<i>M. vidua</i> (Solander, 1844)	-	+	+
<i>Odonus niger</i> Rüppell, 1836	v	-	+
<i>Pseudobalistes flavimarginatus</i> (Rüppell, 1828)	v	+	-
<i>P. fuscus</i> (Bloch and Schneider, 1801)	-	+	+
<i>P. viridescens</i> (Bloch & Schneider, 1801)	v	+	+



	Ashmore Reef/ Cartier I.	Scott/ Seringapa- tam	Rowley Shoals
<i>Rhinecanthus aculeatus</i> (Linnaeus, 1758)	v	+	+
<i>R. rectangulus</i> (Bloch & Schneider, 1801)	v	+	+
<i>R. verrucosus</i> (Linnaeus, 1758)	14	-	-
<i>Sufflamen bursa</i> (Bloch & Schneider, 1801)	v	+	+
<i>S. chrysoptera</i> (Bloch & Schneider, 1801)	v	+	+
<i>S. fraenatus</i> Latreille, 1804	v	-	-
<b>MONACANTHIDAE</b>			
<i>Amanses scopas</i> Cuvier, 1829	v	-	-
<i>Cantherhines dumerilii</i> Hollard, 1854	v	+	-
<i>C. pardalis</i> Rüppell, 1837	C3	+	-
<i>Oxymonacanthus longirostris</i> Bloch & Schneider, 1801	v	+	-
<i>Paraluteres prionurus</i> Bleeker, 1851	v	-	-
<i>Pervagor melanocephalus</i> (Bleeker, 1853)	8	-	-
<i>P. nigrolineatus</i> (Herre, 1927)	-	+	+
<b>OSTRACIIDAE</b>			
<i>Ostracion cubicus</i> Linnaeus, 1758	3	+	+
<i>O. meleagris</i> Shaw, 1796	-	+	+
<i>O. solorensis</i> Bleeker, 1853	-	-	+
<b>TETRAODONTIDAE</b>			
<i>Arothron hispidus</i> (Linnaeus, 1758)	-	+	-
<i>A. meleagris</i> (Bleeker, 1853)	-	+	-
<i>A. nigropunctatus</i> (Bloch & Schneider, 1801)	v	+	+
<i>A. stellatus</i> (Schneider, 1801)	v	-	-
<i>Canthigaster bennetti</i> (Bleeker, 1854)	16	-	-
<i>C. janthinoptera</i> (Bleeker, 1855)	16	-	+
<i>C. solandri</i> (Richardson, 1844)	v	+	+
<i>C. valentini</i> (Bleeker, 1853)	8	+	+
<b>DIODONTIDAE</b>			
<i>Diodon hystrix</i> Linnaeus, 1758	v	+	+
<i>D. liturosus</i> Shaw, 1806	-	-	+