ADDITIONS AND REVISIONS TO THE CHECKLIST

HEXANCHIDAE ... SIX AND SEVEN-GILLED SHARKS*

Hexanchus griseus*
Squalus griseus Bonnaterre, 1788: 9 (Mediterranean Sea).
Rare? A mostly deepwater species. Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.21352). Cosmopolitan, in temperate and tropical seas.

SQUALIDAE ... DOGFISH SHARKS*

Dalatias licha*
Squalus licha Bonnaterre, 1788: 12 ("Le cap Bretan").
Rare? A deepwater species. Trawled in 262 m, 8 miles E.N.E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.20169). Cosmopolitan, in warm-temperate and tropical seas.

RHINOBATIDAE ... SHOVELNOSE AND SHARK RAYS

Rhina ancylostoma*
Rhina ancylostomus Bloch and Schneider, 1801: 352, pl.72. (Coromandel; Indian Sea).
Uncommon? Trawled in 22-28 m, 10 miles S.W. of Lady Elliott Island. Specimen not retained, photographic record only. Widespread in the tropical Indo-W. Pacific.

DASYATIDIDAE ... STINGAREES.

Urolophus* sp.
Rare? Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.21350) is not identifiable and possibly represents an undescribed species (P. Last pers. comm., 1986).

GYMNURIDAE ... RAT-TAILED RAYS*

Gymnura australis*
Pteroplatea australis Ramsay and Ogilby, 1886: 575 (Cape Hawke, N.S.W.).
Rare? Trawled in 36-42 m between reefs in the Bunker Group. A single specimen in the Queensland Museum (QM I.21310). Australia.

CHIMAERIDAE ... GHOST SHARKS*

Hydrolagus* sp.
Rare? Trawled in 335 m, 10 miles N.E. of Lady Musgrave Island. Three specimens in the Queensland Museum (QM I.21646, I.21647) possibly represent a new species according to Dr G. Hardy (National Museum of New Zealand) who is revising this genus.

MURAENIDAE ... MORAY EELS

Gymnomuraena zebra*
Gymnothorax zebra Shaw *in* Shaw and Nodder, 1797: pl.322 (Sumatra).
Uncommon.Recorded on the basis of an underwater photograph taken by R. Turnbull on the reef flat at Heron Island in 0.5-1 m. Widespread in the tropical Indo-W. Pacific.

Gymnothorax elegans*
Gymnothorax elegans Bliss, 1883: 60 (Mauritius).
Rare? Hook and line in 73 m, 9 miles E. of Lady Elliott Island. A single specimen in the Queensland Museum (QM I.21335). Previously known only from the W. Indian Ocean. A new record for Australia.

SYNODONTIDAE ... LIZARDFISHES

Synodus dermatogenys
Synodus dermatogenys Fowler, 1912: 566, fig. 3 (Hawaiian Is).
Synodus variegatus - Woodland and Slack-Smith, 1953: 23 (Heron I.).
This species was previously recorded as *Synodus variegatus*, but Waples and Randall (1988) have shown that the species commonly known as *S. variegatus* is *S. dermatogenys* Fowler, and the name *S. variegatus* (Lacepède) properly applies to *S. englemani* Schultz. Widespread in the tropical Indo-W. Pacific.

Synodus houlti
Synodus houlti McCulloch, 1921: 167 (Capricorn Group).
Synodus variegatus - Russell, 1983: 25 (in part) (Capricorn-Bunker Group).
This species was previously included as a synonym of *S. variegatus* (= *dermatogenys*). The holotype of *S. houlti*, however, differs from Hawaiian specimens of *S. dermatogenys* in having only 4 1/2 scale rows above the lateral line and a larger head (30.1% of SL) (Waples and Randall, 1988), and is here recognised as a distinct species. It is known thusfar only from the Great Barrier Reef.

Synodus variegatus
Salmo variegatus Lacepède, 1803: 157 (Mauritius).
Synodus englemani - Allen *et al.*, 1976: 380 (One Tree I.).
This species was previously recorded as *S. englemani* Schultz, but Waples and Randall (1988) have shown that the name *S. variegatus* Lacepède properly applies to this species and that *S. englemani* is a junior synonym. Widespread in the tropical Indo-W. Pacific.

GONORHYNCHIDAE ... RAT FISHES*

Gonorhynchus greyi*
Rhynchana greyi Richardson, 1845: 44 (W. Australia). Rare? Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. Two specimens in the Queensland Museum (QM I.21324). Temperate and subtropical Australia, and New Zealand.

LOPHIIDAE ... GOOSE FISHES*

Lophiomus setigerus*
Lophius setigerus Vahl, 1797: 214, pl.3, figs 5,6 (China Sea).
Common in deeper trawls. Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. An exclusively benthic species found at depths between 70-250 m. A single specimen in the Queensland Museum (QM I.21353). Widespread in the temperate and tropical Indo-W. Pacific.

OGCOCEPHALIDAE ... HANDFISHES*

Halieutaea brevicauda*
Halieutaea brevicauda Ogilby, 1910a: 138 (off Cape Moreton, Queensland).
Common in deeper trawls. Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. Six specimens in the Queensland Museum (QM I.21358). Temperate-tropical Australia.

MELANODIDAE ... MELANODIDS*

Euclichthys polynemus*
Euclichthys polynemus McCulloch, 1926: 174, pl.44, fig.2 (Great Australian Bight).
Rare? Trawled in 335 m, 10 miles N.E. of Lady Musgrave Island. Two specimens in the Queensland Museum (QM I.21648). Our placement of this genus in the Melanodidae rather than the Moridae follows the suggestion of Paulin (1983). Tropical-subtropical Australia and New Zealand.

HOLOCENTRIDAE ... SQUIRRELFISHES

Myripristis melanostictus*
Myripristis melanostictus Bleeker,1863: 237 (Ternate).
Uncommon? Trawled in 46-55 m, S.E. of Lady Elliott Island. A single specimen in the Queensland Museum (QM I.21304). Widespread in the tropical W. Pacific.

Sargocentron cornutum
Holocentrum cornutum Bleeker, 1853: 240 (Seram).
Sargocentron sp.- Russell, 1983: 31 (One Tree Island).
This species was previously recorded as *Sargocentron* sp. Widespread in the tropical W. Pacific.

CAPROIDIDAE ... BOARFISHES

Antigonia rhomboidea*
Antigonia rhomboidea McCulloch, 1915: 111, pl.18, fig.1 (Between Gabo I. and Cape Everard, Vic.).
Rare? Trawled in 195-205 m, E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.21325). Previously recorded only from southern and western Australia.

SYNGNATHIDAE ... PIPEFISHES

Halicampus dunckeri
Micrognathus dunckeri Chabanaud, 1929: 167 (Amboina).
Micrognathus dunckeri - Russell, 1983: 33 (Heron I.).
This species was previously recorded as *Micrognathus dunckeri*. Dawson (1985) placed it in the genus *Halicampus*.

Halicampus spinirostris
Micrognathus spinirostris Dawson and Allen, 1981: 65 (Western Australia; Sri Lanka).
Micrognathus spinirostris - Russell, 1983: 33 (One Tree I.).
This species was previously recorded from One Tree Island as *Micrognathus spinirostris*. Dawson (1985) placed it in the genus *Halicampus* and also recorded it from Heron Island.

Trachyrhamphus bicoarctatus
Syngnathus bicoarctata Bleeker, 1857a: 99 (Amboina).
Yozia bicoarctata - Woodland and Slack-Smith, 1963: 26 (Heron I.).
This species was previously recorded as *Yozia bicoarctata*. Dawson (1984) placed it in the genus *Trachyrhamphus*.

SCORPAENIDAE ... SCORPION FISHES

Neosebastes incisipinnis*
Neosebastes incisipinnis Ogilby, 1910a: 104 (Cape Moreton, Queensland).
Uncommon? Trawled in 36-42 m, between reefs in the Bunker and Capricorn Groups. Three specimens in the Queensland Museum (QM I.21326, I.21328). Queensland.

PSEUDOCHROMIDAE ... PYGMY GROUPERS

Cypho purpurascens
Nesiotes purpurascens De Vis, 1884: 453 (South Seas).
Pseudochromis mccullochi perpulcher - Whitley, 1959: 313 (Heron I.)
This species was previously recorded as *Pseudochromis mccullochi* Myers by Russell (1983), but A.C. Gill (pers. comm., 1989), who is revising the family, regards *mccullochi* as a synonym of *Cypho purpurascens*. Distributed throughout the tropical S.W. Pacific.

Ogilbyina novaehollandiae
Pseudochromis novae-hollandiae Steindachner, 1880: 160 (Port Denison, Queensland).
Pseudochromis novae-hollandiae - McCulloch, 1915a: 494 (Masthead I.).
This species was previously recorded as *Pseudochromis novaehollandiae* by Russell (1983), but A.C. Gill (pers. comm., 1989) places it to the genus *Ogilbyina*. Known only from S. Queensland.

Ogilbyina queenslandiae
Polyacanthus Queenslandiae Saville-Kent, 1893: 308, pl. xvi, fig. 8 (Adolphus I., Cape York).
Ogilbyina longipinnis - Woodland and Slack-Smith, 1963: 30 (Heron I.).
This species was previously recorded as *Pseudochromis longipinnis* (Ogilby) by Russell (1983), but A.C. Gill (pers. comm., 1989) regards *longipinnis* as a synonym of *Ogilbyina queenslandiae*. Known only from the Great Barrier Reef.

Ogilbyina velifera
Pseudochromis veliferus - Lubbock, 1980: 831 (Great Barrier Reef - One Tree I.).
This species was previously referred to the genus *Pseudochromis*, but A.C. Gill (pers. comm., 1989) places it in the genus *Ogilbyina*. Known only from the Great Barrier Reef.

Pseudochromis cyanotaenia
Pseudochromis cyanotaenia Bleeker, 1857b: 72 (Buru).
Pseudochromis (Assiculus) cyanotaenia - Woodland and Slack-Smith, 1963: 30 (Heron I.)
P. tapeinosoma - Russell, 1983: 44 (Capricorn-Bunker Group).
This species was previously misidentified as *P. tapeinosoma* Bleeker by Russell (1983), who regarded *P. cyanotaenia* as the male colour form of *P. tapeinosoma*. However, *P. tapeinosoma* is a closely related species that does not occur on the Great Barrier Reef (A.C. Gill pers. comm., 1989). Distributed throughout the tropical W. Pacific.

Pseudochromis quinquidentatus*
Pseudochromis (Leptochromis) quinquidentatus McCulloch, 1926: 190, pl.1 (off Cape Capricorn, Queensland).
Uncommon? Trawled in 36-42m, between reefs in the Capricorn Group.
This species occurs mainly in deep water (to 80m) between reefs. Three specimens in the Queensland Museum (QM I.21378) were identified by A.C. Gill (pers. comm., 1989). Known only from northern Australia.

Pseudoplesiops howensis*
Pseudoplesiops howensis Allen, 1987: 250 (Lord Howe I.; Capricorn Group).
Pseudoplesiops sp. 2 - Russell, 1983: 45 (One Tree I.; Fairfax Reef).
This species was previously recorded as a possibly undescribed species. Allen (1987) recently described it as *P. howensis*, recording it from Lord Howe I. and the Capricorn Group (Heron and One Tree Is).

Pseudoplesiops rosae*
Pseudochromis rosae Schultz, 1943: 117, fig. 11 (Rose I., Samoa).
Pseudochromis sp. 1 - Russell, 1983: 45 (One Tree I.).
This species was previously recorded as *Pseudochromis* sp. 1. Additional specimens collected at Heron Island (AMS I.15486-018) and at One Tree Island (AMS I.19338-029) have been subsequently identified by A.C. Gill (pers. comm., 1989) as *P. rosae*. Rare. Occurs in outer reef slope habitats in depths to 10m. Previously known only from Samoa. Distributed throughout the tropical W. Pacific.

Pseudoplesiops typus*
Pseudoplesiops typus Bleeker, 1858: 217 (Goram, Indonesia).
Rare? A single specimen (AMS IB 4065) collected at Heron I. by R.J. Slack-Smith has been identified by A.C. Gill (pers. comm., 1989) as *P. typus*. Widespread in the tropical W. Pacific, including N.W. Australia and Indonesia.

PRIACANTHIDAE ... BULLSEYES

Cookeolus boops*
Anthias boops Bloch and Schneider, 1801: 308 (Atlantic Ocean near St. Helena).
Rare? Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.21322). Circumtropical.

APOGONIDAE ... CARDINAL FISHES

Apogon fleurieu
Ostorhinchus fleurieu Lacepède, 1802: 23 (Pacific Ocean).
Apogon aureus - Woodland and Slack-Smith, 1963: 31 (Heron I.).
This species was previously recorded as *A. aureus* (Lacepède), but Gon (1987) recently has shown that *A. fleurieu* is a senior synonym an older name. Widespread in the tropical Indo-W. Pacific.

Apogon kallopterus
Apogon kallopterus Bleeker, 1856: 33 (Celebes, Manado).
Apogon kallopterus - Fraser and Lachner, 1985: 8 (One Tree I.).
Rare? Occurs in a range of habitats from tidepools to depths of 60 m. Widespread in the tropical Indo-W. Pacific.

Pseudamia gelatinosa
Pseudamia gelatinosa Smith, 1955: 690, pl.18A (Aldabra).
Pseudamia polystigma (*non* Bleeker).- Russell, 1983: 52 (One Tree I.; Wistari Reef).
Pseudamia gelatinosa - Randall, Lachner and Fraser, 1985: 9 (One Tree I.).
This species was previously misidentified as *P. polystigma*. In a recent revision of the genus *Pseudamia*, Randall, Lachner and Fraser (1985) clarified the previous confusion surrounding the name *P. polystigma*, and have identified specimens from One Tree I. as *P. gelatinosa*. Widespread in the tropical Indo-W. Pacific.

CARANGIDAE ... JACKS & TREVALLYS

Carangoides equula*
Caranx equula Schlegel *in* Temminck and Schlegel, 1844: 111, pl.lx, fig.1 (Japan).
Rare? Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. Two specimens in the Queensland Museum (QM I.21356). Widespread in the subtropical and tropical Indo-W. Pacific.

LUTJANIDAE ... SNAPPERS

Lutjanus adetii
Diacope adetii Castlenau, 1873: 111 (Noumea, New Caledonia).
Lutjanus amabilis - Ogilby, 1915: 21 (North West I.).
Lutjanus adetii - Allen and Talbot, 1985: 17 (Capricorn Group).
This species has been widely known as *L. amabilis*, under which name it was previously recorded from the Capricorn-Bunker Group. Allen and Talbot (1985), in a recent revision of the genus *Lutjanus*, however, have resurrected *L. adetii* (Castlenau) as an older name. Tropical-subtropical E. Australia, Lord Howe Island and New Caledonia.

Lutjanus rivulatus*
Diacope rivulata Cuvier *in* Cuvier and Valenciennes, 1828: 414, pl.38 (Coromandel and Malabar coasts and Pondicherry, India; Java; Red Sea).
Occasionally speared in the Capricorn-Bunker Group, but specimens not retained. Widespread in the tropical Indo-W. Pacific.

Lutjanus erythropterus*
Lutjanus erythropterus Bloch, 1790: 115, pl.249 (Japan).
Uncommon. Occasionally observed underwater with *L. malabaricus* swimming high over bommies at the base of reefs. Specimens speared but not retained. Widespread in the tropical Indo-W. Pacific.

Lutjanus vitta*
Serranus vitta Quoy and Gaimard, 1824: 315, pl.58, fig.3 (Waigiu).
Common. Frequently trawled between reefs in the Bunker and Capricorn Groups. Specimens not retained. Widespread in the tropical Indo-W. Pacific.

HAEMULIDAE ... SWEETLIPS

Plectorhinchus lineatus*
Perca lineata Linnaeus, 1758: 293 (no locality given).
Uncommon. Occurs in sheltered outer reef slope habitats, in 5-10 m. A specimen speared at Llewellyn Reef is in the Queensland Museum (QM I.11322). Widespread in the tropical Indo-W. Pacific.

MULLIDAE ... GOATFISHES

Mulloides flavolineatus
Mullus flavolineatus Lacepède, 1801: 384, 406 (Mauritius).
Mulloidichthys flavolineatus - Russell, 1983: 64 (Capricorn-Bunker Group).
This species was previously referred to the genus *Mulloidichthys*. However, Bauchot *et al*. (1985) have recognised the genus *Mulloides* as valid and relegate *Mulloidichthys* to its synonymy. Widespread in the tropical W. Pacific.

Mulloides vanicolensis*
Upeneus vanicolensis Valenciennes *in* Cuvier and Valenciennes, 1831: 521 (Vanicolo).
Uncommon? Occasionally speared. Two specimens in the Queensland Museum, from Fairfax Island (QM I.21302) and Hoskyn Island (QM I.21303). Widespread in the tropical W. Pacific.

EPHIPPIDAE ... BATFISHES

Platax batavianus*
Platax batavianus Cuvier *in* Cuvier and Valenciennes, 1831: 225 (Batavia).
Moderately common in outer reef slope habitats over large bommies, particularly at cleaning stations. Occasionally speared. This species was identified by Dr G.R. Allen (W.A. Museum) from an underwater photograph taken at Boult Reef. N. Australia and Indo-Malay archipelago.

SCARIDAE ... PARROTFISHES

Scarus altipinnis
Pseudoscarus altipinnis Steindachner, 1879: 18 (Kingsmill Is).
Scarus chlorodon (*non* Jenyns).- Goedon, 1974: 13 (Heron I.).
Scarus brevifilis - Russell, 1983: 104 (Heron I.).
Scarus altipinnis - Choat and Randall, 1986: 198 (Heron I.).
This species was previously recorded as *S. brevifilis* (Günther). Choat and Randall (1986) regard *S. brevifilis* as a synonym of *S.altipinnis* (Steindachner). Widespread in the tropical W. Pacific.

Scarus chameleon
Scarus chameleon Choat and Randall, 1986: 199, pl. 3C, 9D-H (Philippines, Belau, Fiji, Okinawa, Great Barrier Reef - Capricorn Group).
Scarus lunula (*non* Snyder).- Goedon, 1974: 13 (Heron I.).
Scarus sp.1.- Russell, 1983: 107 (Heron I.).
This species was previously recorded as an undescribed species of *Scarus*. Widespread in the tropical W. Pacific and W. Australia.

Scarus forsteni
Pseudoscarus forsteni Bleeker, 1861: 238 (Celebes and Moluccas).
Scarus lepidus (*non* Jenyns).- Choat and Robertson, 1975: 264 (Heron I.).
Scarus tricolor (*non* Bleeker).- Russell, 1983: 106 (Heron I.).
Scarus forsteni - Choat and Randall, 1986: 204 (One Tree I.).
This species was previously recorded as *Scarus tricolor* (Bleeker). Choat and Randall (1986) regard *S. tricolor* as distinct from *S. forsteni* (Bleeker) and use the latter name for Great Barrier Reef specimens. Widespread in the tropical W. Pacific.

Scarus frontalis
Scarus frontalis Valenciennes *in* Cuvier and Valenciennes, 1840: 280 (Caroline Is).
Scarus frontalis - Choat and Randall, 1986: 206 (Heron I.).
Rare. Choat and Randall (1986) record this species from Heron Island on the basis of a colour photograph taken by J.H. Choat in 1967. Widespread in the tropical W. Pacific.

MUGILOIDIDAE ... GRUBFISHES

Parapercis nebulosa*
Percis nebulosus Quoy and Gaimard, 1825: 349 (Sharks Bay, W. Australia).
Uncommon? Trawled in 26-42 m, between reefs in the Bunker and Capricorn Groups. A single specimen in the Queensland Museum (QM I.21347). This species inhabits sedimentry substrata often near reefs, usually in depths of 15-58 m (Randall and Stroud, 1985). Eastern and western Australia. Records of this species from elsewhere represent misidentifications of *P. robinsoni* Fowler (Randall and Stroud, 1985).

URANOSCOPIDAE ... STARGAZERS

Uranoscopus* sp.
Rare? Trawled in 195-200 m, 10 miles E. of Lady Musgrave Island. A single specimen in the Queensland Museum (QM I.21355) appears to be an undescribed species of *Uranoscopus* (H. Kishimoto pers. comm., 1986).

BLENNIIDAE ... BLENNIES

Cirripectes chelomatus
Cirripectes chelomatus Williams and Maugé, 1983: 1140 (E. Australia; Lord Howe I.; New Caledonia; Loyalty Is; Tonga Is; Vanuatu; Papua-New Guinea; Fiji).
Cirripectes sp.- Russell, 1983: 114 (Capricorn-Bunker Group).
This species was previously recorded as an undescribed species of *Cirripectes*. The holotype (AMS I.21495-027) was collected from Lady Musgrave Reef and several paratypes were also collected from Heron Island and One Tree Island. Occurs in depths to 16 m. Widespread in the tropical S.W. Pacific.

Ecsenius stictus
Ecsenius stictus Springer, 1988: 74, fig. 38, pl. 9 (One Tree I., Great Barrier Reef).
Ecsenius yaeyamensis - Springer, 1971: 32 (One Tree I.).
This species was previously recorded as *Ecsenius yaeyamensis* (Aoyagi), but in a recent paper, Springer (1988) describes Great Barrier Reef specimens as a new species, *E. stictus*. Restricted to the Great Barrier Reef.

Parablennius tasmanianus
Blennius tasmanianus Richardson, 1849: 129 (Van Dieman's Land).
Blennius intermedius - Whitley, 1926: 234 (North West I.).
Pictiblennius intermedius - Bath, 1977: 205 (Masthead I.).
Parablennius tasmanianus intermedius - Bath and Hutchins, 1986: 179 (Masthead I.)
This species was previously recorded as *Parablennius intermedius* (Ogilby). Bath and Hutchins (1986), however, relegate *intermedius* to a subspecies of *P. tasmanianus* (Richardson). Widespread in E. Australia from Torres Strait to Victoria.

TRIPTERYGIIDAE ... TRIPLE FINS

Helcogramma springeri
Helcogramma springeri Hadley Hansen, 1986: 345, Fig. 16 (Indonesia; Philippines; New Guinea; New Hebrides; Solomon Is; Queensland).
Helcogramma sp. - Russell, 1983: 119 (One Tree I.).
This species was previously recorded as an undescribed species of *Helcogramma*. Hadley Hansen (1983) included several paratypes from One Tree I. in her description of *H. springeri*. Widespread in the tropical W. Pacific.

CHAMPSODONTIDAE ... SABRE GILLS*

Champsodon arafurensis?*
Champsodon arafurensis Regan, 1908: 245 (Arafura Sea; Ki Is).
Rare? Trawled in 195-205 m, 10 miles E. of Lady Musgrave Island. Two specimens in the Queensland Museum (QM I.21357) are provisionally identified as *C. arafurensis* Regan. The specimens measure 121 and 134.5 mm SL and are characterised by having a naked belly, premaxillary with a shallow double notch anteriorly, indistinct dark blotches midlaterally, and a dark blotch at the base of the caudal fin. Arafura Sea and Indonesia.

CALLIONYMIDAE ... DRAGONETS

Synchiropus rameus*
Callionymus (Calliurichthys) rameus McCulloch, 1926: 201, pl.3 (Off Cape Capricorn, Queensland).
Rare? Trawled in 46-55 m, S.E. of Lady Elliott Island. A single specimen in the Queensland Museum (QM I.21340). N. Australia.