

**Netuma bilineata** (Valenciennes, 1840)

det. PK. LPPL JIF 202 (TGT2250) 06° 25'S., 105° 34'E. Areas A, B, C.

## PLOTOSIDAE

**Euristhmus lepturus** (Günther, 1864)

det. PK. CSIRO CA1092 14° 09'S., 128° 19'E. Area C.

**Euristhmus nudiceps** (Günther, 1880)

det. PK. CSIRO CA1821 13° 16'S., 127° 05'E. Area C.

**Plotosus lineatus** (Thunberg, 1787)

det. PK. LPPL JIF8 (TGT3020) 08° 43'S., 115° 16'E. Areas B, C. This species has been called *Plotosus anguillaris* (Bloch).

## AULOPIDAE

**Hime diactithrix** (Prokofiev, 2008)

det. M. Gomon. AMS 1.22807-034 18° 32'S., 118° 17'E. Area C. Sexual dimorphism is apparent, the shape of the dorsal fin in the male (voucher spec.) being diagnostic.

## SYNODONTIDAE

### Subfamily Synodontinae

**Synodus hoshinonis** Tanaka, 1917

det. R. Cressey. USNM 264322 (TGT2535) 03° 45'S., 101° 54'E. Area A, C.

**Synodus indicus** (Day, 1873)

det. R. Cressey. USNM 264332 (TGT2602) 08° 33'S., 114° 31'E. Areas A, B, C.

**Synodus jaculum** Russell & Cressey, 1979

det. R. Cressey. NTM S.10744-003 (TGT940) 08° 30'S., 116° 42'E. Areas B, C.

**Synodus kaianus** (Günther, 1880)

No figure voucher. Our material (e.g. NTM S.10760-001 (TGT1724) from 08° 58'S., 116° 34'E.) determined by R. Cressey. Areas B, C.

**Synodus macrocephalus** Cressey, 1981

det. R. Cressey. USNM 235455 (TGT3092) 08° 57'S., 116° 28'E. Areas A, B.

**Synodus macrops** Tanaka, 1917

det. R. Cressey. USNM 235456 (TGT3215) 09° 01'S., 116° 18'E. Areas B, C.

**Synodus oculus** Cressey, 1981

det. B. C. Russell. NTM S.10743-002 (TGT3162) 08° 27'S., 117° 47'E. Area B.

**Synodus rubromarmoratus** Russell & Cressey, 1979

No figure voucher. Our material determined by R. Cressey (e.g. USNM 264327 (TGT2281B) from 05° 13'S., 105° 44'E.). Areas A, B.

**Synodus sagineus** Waite, 1905

det. PK. AMS 1.22831-040 20° 00'S., 117° 16'E. Area C.

**Synodus tectus** Cressey, 1981

det. R. Cressey. NTM S.10740-002 (TGT1632) 08° 57'S., 116° 17'E. Area B.

**Synodus usitatus** Cressey, 1981

No figure voucher. Our specimen determined by R. Cressey (BMNH 1984.1.1.29 (TGT(PJPW)380) from 04° 23'S., 102° 17'E.). Area A.

**Synodus variegatus** (Lacepède, 1803)

det. R. Cressey. NTM S.10748-016 (TGT3036) 08° 43'S., 115° 16'E. Conspecific material is NTM S.10758-001 (TGT1877) from 08° 58'S., 116° 13'E. Areas B, C.

**Trachinocephalus trachinus** (Temminck & Schlegel, 1846)

det. PK. LPPL JIF5 (TGT2361) 01° 59'S., 99° 26'E. Areas A, B, C.

### Subfamily Harpadontinae

**Harpadon microchir** Günther, 1878

det. R.J. Schmitz. BMNH 1984.1.1.30 (PJPW133) 08° 43'S., 114° 15'E. Area A.

**Harpadon nehereus** (Hamilton, 1822)

det. R.J. Schmitz. BMNH 1984.1.1.31 (TGT (PJPW) 502) 07° 52'S., 109° 04'E. Area A.

**Harpadon translucens** Saville-Kent, 1889

det. CSIRO. CSIRO CA2704 13° 25'S., 126° 19'E. Area C.

**Harpadon mortenseni** Hardenberg, 1933

det. PK. BMNH 1984.1.1.32 (TGT (PJPW) 812) 08° 43'S., 114° 15'E. Area A.

**Harpadon sp cf nehereus** Hamilton, 1822

det. PK. Specimen lost. (TGT1553 from 08° 17'S., 119° 45'E.). Area B.

**Saurida gracilis** (Quoy & Gaimard, 1824)

det. R. Waples. NTM S.10733-021 (TGT1077) 08° 46'S., 115° 10'E. Areas B, C.

**Saurida longimanus** Norman, 1939

det. TGT & PK. NTM S.10761-005 (TGT3164) 08° 27'S., 117° 47'E. Areas B, C.

**Saurida micropectoralis** Shindo & Yamada, 1972

det. R. Cressey. BMNH 1984.1.1.33 (TGT1325) 08° 46'S., 118° 17'E. Areas A, B, C.

**Saurida nebulosa** Valenciennes, 1850

det. H.K. Larson. NTM S.10749-001 (TGT1805) 08° 48'S., 116° 43'E. Area B.

**Saurida tumbil** (Bloch, 1795)

det. TGT & PK. LPPL JIF6 (TGT2384) 01° 20'S., 98° 35'E. Areas A, B, C.

**Saurida macrolepis** Tanaka, 1917

det. TGT & PK. LPPL JIF7 (TGT2248) 06° 25'S., 105° 34'E. Conspecific material at USNM 264323 (TGT2541) 03° 45'S., 101° 54'E. Areas A, B, C.

**Saurida wanieso** Shindo & Yamada, 1972.

det. TGT & PK. NTM S.11029-002 (TGT2253) 05° 13'15"S., 105° 44'E. Area A.

**Saurida elongata** (Temminck & Schlegel, 1846)

det. PK. CSIRO CA2956 19° 10'S., 117° 49'E. Area C. Area C.

**CHLOROPHTHALMIDAE****Chlorophthalmus acutifrons** Hiyama, 1940

det. M. Gomon. NTM S.10760-011 (TGT 1723) 08° 58'S., 116° 34'E. Area B.

**Chlorophthalmus sp. 1 cf albatrossis** Jordan & Starks, 1904

det. M. Gomon. WAM P.26270-019 15° 30'S., 120° 58'E. Areas A, B, C.

**Chlorophthalmus sp. 2 cf albatrossis** Jordan & Starks, 1904

det. M. Gomon. NTM S.10998-012 (TGT2534) 01° 25'S., 100° 19'E. Area A.

**Chlorophthalmus corniger** Alcock, 1894

No figure voucher. Our material determined by D.M. Cohen (BMNH 1984.1.1.34 from 08° 43'S., 114° 15'E.). Area A. C. *bicornis* Norman is a synonym.

**Chlorophthalmus vityazi** Kobylansky, 2013

det. M. Gomon. NTM S.10998-014 (TGT2511) 01° 25'S., 100° 19'E. Conspecific material at NTM S.10760-012 (TGT1728) 08° 58'S., 116° 34'E. Areas A, B, C.

**Chlorophthalmus nigromarginatus** Kamohara, 1953

det. M. Gomon. AMS 1.21835-007 09° 21'S., 133° 12'E. Area C.

**PARAULOPIDAE****Paraulopus oblongus** (Kamohara, 1953)

det. PK. NTM S.10760-014 (TGT1722) 08° 58'S., 116° 34'E. Area B. Conspecific material is NTM S.10998-015 (TGT2513) det. M. Gomon. 01° 25'S., 100° 19'E. Area A.

**Paraulopus brevirostris** (Fourmanoir, 1981)

det. M. Gomon. NTM S.10752-012 (TGT3216) 09° 01'S., 116° 34'E. Areas B, C.

**MYCTOPHIDAE****Benthoosema fibulatum** (Gilbert & Cramer, 1897)

No figure voucher. Our material determined by J. Paxton, N. Merrett & J. Badcock (e.g. BMNH 1984.1.1.35 (PJPW212) from 08° 45'S., 114° 15'E.). Area A.

**Benthoosema pterotum** (Alcock, 1890)

No figure voucher. Our material determined by J. Paxton & J. Badcock (e.g. AMS 1.24316-001 (no field number)). Area A.

**Diaphus chrysohynchus** Gilbert & Cramer, 1897

No figure voucher. Our material (e.g. AMS 1.24311-001 (TGT3204A) from 09° 01'S., 116° 18'E.). determined by J. Paxton. Area B.

**Diaphus coeruleus** (Klunzinger, 1871)

No figure voucher. Our material (e.g. BMNH 1984.1.1.36 (PJPW 29) from 08° 49'S., 114° 27'E.). determined by P.A. Hulley & J. Paxton. Areas A, B.

**Diaphus effulgens** (Goode & Bean, 1896)

No figure voucher. J. Paxton determined our material (AMS I. 24312-001 (TGT1747) from 08° 58'S., 116° 34'E.). Area B.

**Diaphus fragilis** Tåning, 1928

No figure voucher. J. Paxton determined our material (AMS I. 24313-002 (TGT1690) from 08° 32'S., 115° 53'E.). Area B.

**Diaphus garmani** Gilbert, 1906

No figure voucher. Our material determined by J. Paxton, J. Badcock & P.A. Hulley (e.g. BMNH 1984.1.1.37 (TGT1690 in part) from 08° 32'S., 115° 53'E.). Areas A, B.

**Diaphus lucidus** (Goode & Bean, 1896)

No figure voucher. Our material determined by N. Merrett, J. Paxton & J. Badcock (e.g. BMNH 1984.1.1.38 (PJPW 120 in part) from 08° 45'S., 114° 17'E.). Area A.

**Diaphus signatus** Gilbert, 1908

No figure voucher. Our material determined by P.A. Hulley (BMNH 1984.1.1.39 (no field number) from 08° 45'S., 114° 17'E.). Area A.

**Diaphus splendidus** (Brauer, 1904)

No figure voucher. Our material determined by J. Paxton (AMS I. 24316-002 (no field number)). Area A.

**Diaphus suborbitalis** Weber, 1913

No figure voucher. Our material determined by N. Merrett, J. Paxton & J. Badcock (e.g. BMNH 1984.1.1.40 (PJPW 141 in part) from 08° 45'S., 114° 17'E.). Area A.

**Diaphus watasei** Jordan & Starks, 1904

No figure voucher. Our material determined by J. Paxton, J.B. Hutchins & J. Badcock (e.g. WAM P.26270-007 from 15° 30'S., 120° 58'E.). Areas A, C.

**\*Diaphus sp. A.**

No figure voucher. J. Paxton determined our material (AMS I.24314-001 (TGT3204B) from 09° 01'S., 116° 18'E.). Area B.

**\*Diaphus sp. B.**

No figure voucher. J. Paxton determined our material (AMS I. 24314-002 (TGT3204) 09° 01'S., 116° 18'E.). Area B.

**\*Diaphus sp. C.**

No figure voucher. Our material determined by J. Paxton (AMS I. 24338-003 (TGT1678) from 08° 30'S., 117° 46'E.). Area B.

**Lampadena luminosa** (Garman, 1899)

No figure voucher. N. Merrett determined our material (BMNH 1984.1.1.41 (PJPW120 in part) from 08° 45'S., 114° 12'E.). Area A.

**Lampanyctus lineatus** Tåning, 1928

No figure voucher. J. Badcock & J. Paxton determined our material (e.g. BMNH 1984.1.1.42 (TGT (PJPW) 818b) from 08° 43'S., 114° 15'E.). Area A.

**Dasyscopelus asper** (Richardson, 1845)

No figure voucher. J. Badcock determined our material (BMNH 1984.1.1.43 (TGT (PJPW) 436) from 05° 56'S., 104°22'E.). Area A.

**Dasyscopelus brachygnathos** (Bleeker, 1856)

No figure voucher. J. Paxton & N. Merrett determined our material (e.g. BMNH 1984.1.1.44 (PJPW 120 in part) from 08° 45'S., 114° 17'E.). Area A.

**Myctophum fissunovi** Becker & Borodulina, 1971

No figure voucher. P.A. Hulley determined our material (e.g. BMNH 1984.1.1.45 (PJPW 141 in part) from 08° 45'S., 114° 17'E.). Area A.

**Notoscopelus resplendens** (Richardson, 1845)

No figure voucher. J. Paxton & N. Merrett determined our material (e.g. BMNH 1984.1.1.46 (PJPW 120 in part) from 08° 45'S., 114° 17'E.). Area A.

**Scopelopsis multipunctatus** Brauer, 1906

No figure voucher. Our material determined by J. Badcock, N. Merrett & J. Paxton (e.g. BMNH 1984.1.1.47 (PJPW 120 in part) from 08° 45'S., 114° 17'E.). Area A.

**NEOSCOPELIDAE****Neoscopelus microchir** Matsubara, 1943.

det. P.A. Hulley & PK. NTM S. 10998-016 (TGT2532) 01° 25'S., 100° 19'E. Areas A, C.

**PARALEPIDIDAE****Lestrolepis japonica** (Tanaka, 1908)

det. H. Ho & PK. BMNH 1984.1.1.49 (PJPW43) 08° 45'S., 114° 17'E. Areas A, B.

**Lestidium longilucifer** Ho, Graham & Russell 2020

det. H. Ho. BMNH 1984.1.1.48 (no field number). Area A.

**Lestidiops mirabilis** (Ege, 1933)

No figure voucher. Our specimen (BMNH 1984.1.1.50 (PJPW211) from 08° 45'S., 114°17'E.) determined by A. Post. Area A.

**Lestidium sp. cf prolixum** Harry, 1953

det. H. Ho & PK. BMNH 1984.1.1.51 (TGT (PJPW780)) 08° 32'S., 114° 30'E. Area A.

**Stemonosudis retrodorsalis** Ho, Russell, Graham & Psomadakis, 2019

det. H. Ho. BMNH 1981.11.30:1 (PJPW113) 08° 44'S., 114° 16'E. Area A. Paratype.

## POLYMIXIIDAE

**Polymixia berndti** Gilbert, 1905

det. PK. NTM S.10760-010 (TGT1741) 08° 58'S., 116° 34'E. Areas A, B, C.

## MORIDAE

**Dr T. Arai received specimens of our Physiculus species in 1983 and assigned NSMT catalogue numbers to them. When undertaking our revision however, we were informed by the NSMT fish collection manager that Dr Arai (who has passed away) did not deposit the specimens in the NSMT collection.**

\***Lepidion sp cf inosimae** Günther, 1887

No figure voucher. PK determined our material (BMNH 1984.1.1.55 and 1984.1.1.56 (TGT(PJPW) 448 and 508) from 08° 02'S., 109° 03'E.). Area A. There are eight known species of *Lepidion* Swainson; and in the absence of our examining the BMNH specimens we suggest that they could be of *L. inosimae* (Günther, 1887). That species has been recorded from the northwestern Indian Ocean (Vinu et al, 2016), southern Japan, New Zealand, southeastern Australia, New Caledonia, Papua New Guinea (Fricke et al., 2019) and Hawaii (Mundy et al., 2005). *Diagnosis*: The genus *Lepidion* Swainson is characterised by an elongated first dorsal ray, the ventral fin comprised of several rays, and an emarginate anal fin. [*L. inosimae* diagnosis: A species of *Lepidion* with more than 200 oblique scale rows in longitudinal series, and teeth on vomer in a rounded patch: Paulin & Roberts, 1997].

**Physiculus sp. 1**

det. PK. NSMT P.22055 (TGT1729) from 08° 58'S., 116° 34'E. Area B.

\***Physiculus roseus** Alcock, 1891

No figure voucher. Survey material determined by D.M. Cohen (WAM P.26209-011 from 18° 18'S., 118° 08'E.). Area C.

*Diagnosis*: First ray of dorsal fin prolonged. Life colour uniform rose-red. Anus  $\frac{1}{3}$  to  $\frac{2}{5}$  distance from anal fin origin to ventral fin base. 7 rays in ventral fin. Ventral light organ with 2 black dermal windows. Snout mostly scaled. Chin barbel stout. Eye  $\frac{1}{4}$  to  $\frac{1}{3}$  of HL; interorbital  $\frac{1}{5}$  HL. D. 6-7; 63-65. Lower GR 13-15.

**Physiculus sp. 2**

det. PK. NSMT P.22058 (TGT3208) from 09° 01 'S., 116° 18'E. Area B.

**Physiculus longifilis** Weber, 1913

det. PK. based on Paulin, 1989. NSMT P.22054 (TGT1661) from 08° 30'S., 117° 46'E. Area B.

## BREGMACEROTIDAE

**Bregmaceros sp cf japonicus** Tanaka, 1908

det T. Ozawa & PK. CSIRO CA1139 12° 27'S., 124° 27'E. Areas B, C. *B. japonicus* Tanaka and *B. atlanticus* (Goode & Bean) are distinguished from other *Bregmaceros* spp by the nearly uniform dark pigmentation over much of the body (Torii et al. 2003:43).

**Bregmaceros nectabanus** Whitley, 1941

det. H-C. Ho. NTM S.10998-003 (TGT2521) 01° 25'S., 100° 19'E. Area A.

**Bregmaceros pseudolanceolatus** Torii, Javonillo & Ozawa, 2004

det. H-C. Ho. CSIRO CA1101 14° 00'S., 128° 24'E. Areas B, C.

**Bregmaceros mccllellandi** Thompson, 1840

det. T. Ozawa & PK. NTM S.11016-001 (TGT2477) 00° 04'S., 99° 01'E. Areas A, C.

**Bregmaceros anchovia** Ho, Endo & Lee, 2020

det. H-C. Ho. NTM S.10824-005 (TGT2375) 01° 59'S., 99° 26'E. Area A. Paratype.

## MACROURIDAE

**Coelorinchus argentatus** Smith & Radcliffe, 1912

No figure voucher. Our material (e.g. WAM P.26270-015 from 15° 30'S., 120° 58'E.) determined by T. Iwamoto. Areas A, C.

**Coelorinchus kamoharai** Matsubara, 1943

No figure voucher. Our specimen determined by T. Iwamoto (BMNH 1984.1.1.58 (TGT (PJPW) 481) from 07° 55'S., 109° 42'E.). Area A.

**Coelorinchus maculatus** Gilbert & Hubbs, 1920

det. T. Arai & PK. WAM P.21650-001 (in part) 13° 28'S., 123° 09'E. Drawing of preserved specimen by T. Arai. Area C.

**Coelorinchus acutirostris** Smith & Radcliffe, 1912

det. T. Iwamoto. WAM P.26209-003 18° 18'S., 118° 08'E. Drawing of preserved specimen by T. Arai. Area C.

**Coelorinchus sp. 1**

det. N. Nakayama. CSIRO CA1134 10° 27'S., 119° 57'E. Area C. Drawing of preserved specimen by T. Arai.

**Coelorinchus posteromaculatus** Nakayama, Prokofiev & Kawai, 2020

det. N. Nakayama. NSMT-P 22052 (TGT1458) from 08° 58'S., 116° 05'E. Area B. Drawing of preserved specimen by T. Arai. Holotype: AMS I.44527-001 from 08° 97'S., 116° 08'E. 66.4 mm HL. 211+ mm TL.

**Coelorinchus pardus** Iwamoto & Williams, 1999

det. T. Iwamoto. NSMT-P 23029 from 09° 32'S., 133° 10'E. Area C. Drawing of preserved specimen by T. Arai.

**Coelorinchus thurla** Iwamoto & Williams, 1999

det. T. Iwamoto. WAM P.26270-016 15° 30'S., 150° 58'E. Drawing of preserved specimen by T. Arai. Area C. Paratype.

**Hymenocephalus heterolepis** (Alcock, 1889)

det. T. Iwamoto. BMNH 1984.1.1.59 (TGT (PJPW) 461) 07° 55'S., 109° 42'E. Specimen missing. Area A. Drawing of preserved specimen by T. Arai.

**Hymenocephalus longibarbis** (Günther, 1887)

No figure voucher. Our material determined by T. Arai (WAM P.25395-002 from 17° 30'S., 119° 00'E.). Area C.

**OPHIDIIDAE****Brotula multibarbata** Temminck & Schlegel, 1846

No figure voucher. Specimen determined by J.B. Hutchins (WAM P.26263-002 from 17° 56'S., 119° 56'E.). Area C.

**Glyptophidium macropus** Alcock, 1894

det. J.G. Nielsen. ZMUC P77737 (TGT1448) 08° 56'S., 116° 24'E. Area B.

**Glyptophidium oceanium** Smith & Radcliffe, 1913

det. J.G. Nielsen. ZMUC P77751 (TGT2518) 01° 25'S., 100° 19'E. Areas A, C.

**Hoplobrotula armata** (Temminck & Schlegel, 1846)

No figure voucher. Our material determined by J.G. Nielsen (e.g. CSIRO CA3730 from 09° 09'S., 131° 48'E.). Area C.

**Hypopleuron caninum** Smith & Radcliffe, 1913

det. J.G. Nielsen. ZMUC P77752 (TGT2519) 01° 25'S., 100° 19'E. Area A.

**Neobythites longipes** Smith & Radcliffe, 1913

det. J.G. Nielsen. ZMUC P77740 (TGT1718) 08° 58'S., 116° 34'E. Area B.

**Neobythites macrops** Günther, 1887

No figure voucher. Our material (BMNH 1983.1.1.57 (TGT(PJPW)453) from 07° 55'S., 109° 42'E.) determined by J.G. Nielsen. Area A.

**Neobythites malayanus** Weber, 1913

det. J.G. Nielsen. ZMUC P77742 (TGT1897) 08° 27'S., 117° 47'E. Area B.

**Neobythites purus** Smith & Radcliffe, 1913

No figure voucher. Our material (ZMUC P77757 from 9° 09'S., 131° 48'E.) determined by J.G. Nielsen. Area C.

**\*Neobythites neocaledoniensis** Nielsen, 1997

Our specimen (ZMUC P77743 (TGT1684) from 08° 32'S., 115° 53'E.) identified by J.G. Nielsen. Area B. *Diagnosis*: Body dusky yellow, fins darker with no distinct ocelli or bands. Snout equals eye diameter; opercular spine strong; two preopercular spines; lateral line distinct. D 103. A 87. P 26. V 2. GR (long) 11. Pseudobranchial filaments 4.

**Neobythites lombokensis** Uiblein & Nielsen, 2018

det. J.G. Nielsen. ZMUC P77744 (TGT1717) 08° 58'S., 116° 34'E. Area B. Holotype.

**Ophidion muraenolepis** Günther, 1880

det. J.G. Nielsen. ZMUC P77747 (TGT3188) 09° 01'S., 116° 18'E. Areas B, C.

**Sirembo imberbis** (Temminck & Schlegel, 1846)

det. PK. CSIRO CA1103 12° 21'S., 129° 02'E. Area C.

**Sirembo jerdoni** (Day, 1888)

det. J.G. Nielsen. ZMUC P77746 (TGT2468) 00° 04'S., 99° 01'E. Areas A, B, C.

**Sirembo amaculata** (Cohen & Nielsen, 1982)

det. J.N. Nielsen. AMS I.22805-020 18° 28'S., 118° 15'E. Area C.

**CARAPIDAE****Encheliophis gracilis** (Bleeker, 1856)

det. PK. CSIRO CA2309 20° 45'S., 115° 59'E. Area C.

**\*Onuxodon margaritiferae** (Rendahl, 1921)

No figure voucher. J.B. Hutchins determined our Survey material (e.g. WAM P.26188-030 from 20° 21'S., 115° 53'E.). Area C. *Diagnosis*: body very compressed, moderately deep. The maxillary is not hidden by skin and there are 2 or more rows of jaw teeth (anterior ones caninoid) separated by a wide gap anteriorly. Colour: translucent pink, tail tip black.

**BATRACHOIDIDAE****Batrachomoeus occidentalis** Hutchins, 1976

det. J.B. Hutchins. CSIRO CA1819 18° 29'S., 119° 20'E. Area C.

**Batrachomoeus trispinosus** (Günther, 1861)

det. J.B. Hutchins. CSIRO B.3860 11° 29'S., 134° 25'E. Area C.

**Halophryne diemensis** (LeSueur, 1824)

det. J.B. Hutchins. CSIRO CA1774 20° 09'S., 116° 07'E. Area C.

**\*Halophryne ocellatus** Hutchins, 1974

Survey specimens determined by J.B. Hutchins (e.g. WAM P.26191-001 from 20° 09'S., 116° 31'E.). Area C. *Diagnosis*: Many small ocelli on the body; no skin ridges on the head and anterior body portion.

**LOPHIIDAE****Lophiodes gracilimanus** (Alcock, 1899)

det. J.H. Caruso. BMNH 1984.1.1.53 (no field number). Area A.

**\*Lophiodes mutilus** (Alcock, 1894)

No figure voucher. Our specimen BMNH 1984.1.1.54 (PJPW2035) probably from southern Java, determined by J.H. Caruso. Area A. *Diagnosis*: Illicium pale; peritoneum black. Third dorsal fin spine reaches soft dorsal fin at least; less than 6 spines in spinous dorsal fin; pectoral fin 15-18.

**Lophiomus setigerus** (Vahl, 1797)

det. J.H. Caruso on photo. Specimen lost (TGT1752) 08° 58'S., 116° 34'E. Conspecific specimen NTM S.10758-003 from 08° 58'S., 116° 13'E. Areas A, B, C.

**ANTENNARIIDAE****Antennarius commerson** (Anonymous in Lacepède (e Commerson) 1798)

det. TGT & T.W. Pietsch. LPPL JIF10 (TGT1770) 08° 56'S., 116° 33'E. Area B.

**Antennarius hispidus** (Bloch & Schneider, 1801)

det. PK. CSIRO CA1689 20° 03'S., 116° 10'E. Areas B, C.

**Antennarius pictus** (Shaw, 1794)

det. T.W. Pietsch on photo. Specimen lost (TGT980) 08° 30'S., 116° 42'E. Areas B, C.

**Antennarius striatus** (Shaw, 1794)

det. PK. CSIRO CA2314 20° 40'S., 116° 00'E. Area C.

**Lophiocharon trisignatus** (Richardson, 1844)

det. PK. CSIRO CA2313 19° 29'S., 115° 59'E. Area C.

**Tathicarpus butleri** Ogilby, 1907

det. CSIRO. CA 1397 10° 50'S., 131° 07'E. Area C.

**TETRABRACHIIDAE****Tetrabrachium ocellatum** Günther, 1880

det. PK. Specimen lost. 12° 24'S., 137° 48'E. Area C. Conspecific material from Survey area determined by T.W. Pietsch is WAM P.26130-001 from 14° 00'S., 126° 36'E.

**CHAUNACIDAE****Chaunax gomoni** Ho, Kawai & Satria, 2015

det. H. Ho. NTM S.10998-010 (TGT2531) 01° 25'S., 100° 19'E. Areas A, B, C.

**OGCOCEPHALIDAE**

A note about *Halieutaea*: Even with the assistance of experts we are unable to place the correct identities on some of the material caught in the Survey mainly because of the variety of characteristics used to define species.

**Halieutaea sp. 1**

det. H. Ho. CSIRO CA1394 from 10° 02'S., 130° 05'E. Area C. This species belongs in the *H. coccinea* group. (pers. comm. H. Ho September 2019).

**Halieutaea coccinea** Alcock, 1889

det. PK. NTM S.11117-002 (no field number) 08° 01'S., 109° 27'E. Area A. Drawing of preserved specimen.

**Halieutaea fumosa** Alcock, 1894

det. PK. NTM S. 10761-010 (TGT3152J) 08° 27'S., 117° 47'E. Areas B, C.

**Halieutaea indica** Annandale & Jenkins, 1910

det. PK. NTM S. 11001-005 (TGT2556) 03° 07'S., 101° 20'E. Area A.

**Halieutaea sp. 2**

det. PK. NTM S.10995-005 (TGT2610) 08° 33'S., 114° 31'E. Areas A, B, C.

**Halieutaea sp. 3**

det. PK. NTM S.10999-002 (TGT2457) 00° 25'S., 98° 40'E. Area A.

**Malthopsis kobayashii** Tanaka, 1916

det. PK. NTM S.10760-013 (TGT1711) 08° 58'S., 116° 34'E. Areas B, C.

**VELIFERIDAE****Velifer sp.**

det. PK. WAM P.26194-010 19° 26'S., 116° 31'E. Areas B, C. In all of our material, the lateral line count (59-63) is consistently below that stated for *V. hypselopterus* Bleeker (70-72).

**TRACHIPTERIDAE****Desmodema polystictum** (Ogilby, 1898)

det. PK. NTM S.11036-001 (TGT1560) 08° 03'S., 108° 39'E. Area B. (photo of preserved voucher: PK 5).

**\*Trachipterus trachipterus** (Gmelin, 1789)

No figure voucher. Our Survey material determined by P. Whitehead (BMNH 1984.1.1.62 (TGT (PJPW) 834) from 08° 43'S., 114° 15'E.). Area A. *Diagnosis*: No scales on body; anus near middle of body. Anal fin absent; upper lobe of caudal fin well-developed and upturned, lower lobe reduced to stump in adults. Greatest body depth immediately behind head; caudal peduncle depth contained less than twice in body depth at level of 10<sup>th</sup> lateral line spine before tail tip. Body silvery fawn, with 2-5 large dark blotches along side.

**ATELEOPODIDAE****Ateleopus japonicus** Bleeker, 1853

det. P. Whitehead. BMNH 1984.1.1.52 (TGT (PJPW) 355) 00° 50'S., 98° 32'E. Area A. We have two other specimens (TGT1562, NTM S.11036-002 from 08° 03'S., 108° 39'E.) which may be conspecific. Area B.

**\*MELAMPHAIDAE****\*Scopelogadus mizolepis** (Günther, 1878)

No figure voucher. Our specimen (BMNH 1984.1.1.60 (TGT (PJPW) 177) from 08° 45'S., 114° 17'E.) determined by P. Whitehead. Area A. *Diagnosis* (family): small fishes with body deep or somewhat elongate. Head large with thin bones and mucous cavities; fine jaw teeth, no palatine teeth. Short dorsal fin with few spines; ventral fin with one spine, 6 to 9 rays; caudal fin forked. *Diagnosis* (species): scales very large and cycloid, easily lost, 12-18 in lateral line. D II-III, 9-11. A I-II, 8. V. I, 7. Depth 3.5-3.7 in SL, head 2.5 in SL. Pectoral fin very long. Colour dark blue-grey or black.

**TRACHICHTHYIDAE****Aulotrachichthys latus** (Fowler, 1938)

No figure voucher. Our material determined by M.F. Gomon (e.g. NMV A3270 (TGT1884) from 08° 27'S., 117° 47'E.). Area B.

**Aulotrachichthys sp.**

det. M.F. Gomon. NTM S. 10752-009 (TGT3190A) 09° 01'S., 116° 18'E. Areas B, C?

**\*Hoplostethus ravurictus** Gomon, 2008

No figure voucher. M. Gomon determined our material (WAM P.26209-015 from 18° 18'S., 118° 08'E.). Area C. Paratype. *Diagnosis*: D VI, 13-14. A 111, 9. Total G.R. 18-20. 15 abdominal scutes between ventral fin bases and anus, which is just before anal fin origin. Vertical soft fins rounded. Eye 7.6-8.5 in SL; body depth 1.9-2 in SL.

**MONOCENTRIDAE****Monocentris japonica** (Houttuyn, 1782)

det. CSIRO. CSIRO CA1807 09° 40'S., 135° 00'E. Areas A, B, C.

**HOLOCENTRIDAE****Myripristis berndti** Jordan & Evermann, 1903

det. TGT. BPBM 29389 (TGT2190) 08° 43'S., 115° 16'E. Areas A, B.

**Myripristis kuntee** Cuvier, 1831

det. TGT & PK. BPBM 29388 (TGT2180). 08° 43'S., 115° 16'E. Area B.

**Myripristis botche** Cuvier, 1829

det. PK. CSIRO CA1545 from 20° 10'S., 115° 15'E. Areas B, C. Conspecific material at LPPL JIF12 (PAN 9) 08° 31'S., 115° 32'E.

**Neoniphon opercularis** (Valenciennes, 1831)

det. TGT. LPPL JIF11 (TGT1224) 08° 10'S., 114° 54'E. Area B.

**Ostichthys acanthorhinus** Randall, Shimizu & Yamakawa, 1982

det. J. Randall. BMNH 1982.4.6.25-26 (TGT1464) 08° 58'S., 116° 05'E. Areas A, B.

**Ostichthys japonicus** (Cuvier, 1829)

det. LPPL JIF13 (TGT3000) 08° 25'S., 117° 48'E. Areas B, C.

**Ostichthys kaianus** (Günther, 1880)

det. J. Randall. AMS I.22807-052 18° 32'S., 118° 17'E. Area C.

**Sargocentron caudimaculatum** (Rüppell, 1838)

Specimen lost. det. J. Randall on photo. (TGT1012) 08° 43'S., 115° 16'E. Area B.

**Sargocentron diadema** (Lacepède, 1802)

det. J. Randall. BMNH 1984.1.1.61. (TGT(PJPW)347) 02° 35'S., 99° 56'E. Area A.

**Sargocentron punctatissimum** (Cuvier, 1829)

det. TGT & PK. LPPL JIF14 (PAN2) 08° 31'S., 115° 32'E. Area B.

**Sargocentron rubrum** (Forsskål, 1775)

det. CSIRO. CSIRO CA1816 20° 12'S., 115° 19'E. Areas B, C.

**Sargocentron spiniferum** (Forsskål, 1775)

det. TGT. LPPL JIF15 (BZ01) 06° 10'S., 104° 38'E. Areas A, B.

**ZEIDAE****Zenopsis conchifer** (Lowe, 1852)

det. TGT. LPPL JIF16 (TGT (PJPW) 390) 01° 48'S., 99° 21'E. Area A.

**Zenopsis nebulosa** (Temminck & Schlegel, 1845)

det. TGT. NTM S.10752-010 (TGT3229) 09° 01' S., 116° 18'E. Areas B, C.

**Zeus faber** Linnaeus, 1758

det. CSIRO. Specimen lost. (Conspecific material determined by CSIRO is CA250 from 19° 58'S., 115° 12'E.). Area C.

**PARAZENIDAE****Cyttopsis cypho** (Fowler, 1934)

det. TGT. NTM S.10998-011 (TGT2529) 01° 25'S., 100° 19'E. Areas A, B, C.

**ZENIONTIDAE****Zenion sp.**

det. D. Bray. NTM S.10998-007 (TGT2522) 01 ° 25'S., 100° 19'E. Area A.

**\*GRAMMICOLEPIDIDAE****\*Xenolepidichthys dalglesihi** Gilchrist, 1922

det. J. Paxton. AMS 1.22825-012 18° 43'S., 117° 20'E. Area C. *Diagnosis* (family): Body oval or oblong-shaped, strongly compressed. Body, cheeks and operculum covered with vertically-elongated scales. Mouth very small. A row of small spines along each side of vertical fin bases. Two dorsal fins: V-VII; 27-34. A II, 27-39. First anal spine greatly elongated in juveniles. *Diagnosis* (species): body very deep and compressed; no spiny scutes on of sides body; dorsal fin spines plus rays 32-34. Silvery body with round black spots, caudal margin black. Reference: Heemstra 1986.

**ANTIGONIIDAE****Antigonia capros** Lowe, 1843

det. P. Zehren. NTM S.10760-015 (TGT1742) 08° 58'S., 116° 34'E. Areas A, B.

**Antigonia rubescens** (Günther, 1860)

det. P. Zehren. NTM S.11034-002 (TGT2330) 02° 42'S., 99° 56'E. Areas A, B, C.

**Antigonia rubicunda** Ogilby, 1910

det. P. Zehren. NTM S.11116-004 (no field number). Areas A, B, C.

**Antigonia malayana** Weber, 1913

det. P. Zehren. NTM S.11042-001 (TGT2288) 05° 35'S., 102° 25'E. Area A.

**FISTULARIIDAE****Fistularia commersonii** Rüppell, 1838

No figure voucher. Our material determined by G. Leyland (e.g. CSIRO CA1547 from 19° 52'S., 115° 54'E.). Area C.

**Fistularia petimba** Lacepède, 1803

det. TGT. LPPL JIF17 (TGT2232) 06° 13'S., 105° 44'E. Areas A, B, C.

**CENTRISCIDAE****\*Centriscus cristatus** (De Vis, 1885)

No figure voucher. Our specimen determined by J.B. Hutchins (WAM P.26188-034 from 20° 21'S., 115° 53'E.). Area C. *Diagnosis*: body depth 4.6-5 in SL., interorbital convex and not grooved. D III, 12. A 13-14. P.12. First dorsal spine not jointed, fused with body armour.

**Centriscus scutatus** Linnaeus, 1758

det. PK. NTM S.10749-007 (TGT1812) 08° 48'S., 116° 43'E. Areas A, B, C.



**SYNGNATHIDAE****Halicampus macrorhynchus** Bamber, 1915

No figure voucher. Our specimen (apparently lost (TGT1883) from 08° 27'S., 117° 47'E.) determined by C.E. Dawson. Area B.

**Haliichthys taeniophora** Gray, 1859

No figure voucher. Our material (e.g. CSIRO CA1811 from 19° 52'S., 118° 12'E.) determined by R. Kuitert. Area C.

**Hippocampus angustus** Günther, 1870

No figure voucher. Our material (e.g. CSIRO CA2184 from 20° 30'S., 115° 34'E.) determined by W. White. Area C.

**Hippocampus spinosissimus** Weber, 1913

det. R. Kuitert. NTM S.10749-006 (TGT1813). 08° 48'S., 116° 43'E. Areas B, C.

**Solegnathus lettiensis** Bleeker, 1860

No figure voucher. C.E. Dawson determined our material on photo of lost CSIRO specimen from 19°54'S., 116° 02'E. Another example is WAM P.26194-001 from 19° 26'S., 116° 31'E. Area C.

**Trachyrhamphus bicoarctata** (Bleeker, 1857)

No figure voucher. Our material (e.g. NTM S. 11085-001 from 19° 57'S., 116° 17'E.) determined by C.E. Dawson Area C.

**APISTIDAE****Apistops caloundra** (de Vis, 1886)

det. PK. CSIRO CA1618 14° 08'S., 138° 34'E. Area C.

**Apistus carinatus** (Bloch & Schneider, 1801)

det. PK. LPPL JIF19 (TGT1198) 08° 47'S., 118° 25'E. Areas A, B, C.

**NEOSEBASTIDAE****Neosebastes occidentalis** Motomura, 2004

det. H. Motomura. CSIRO CA1388 21° 27'S., 114° 15'E. Area C. Paratype.

**SCORPAENIDAE****Brachypterois serrulifer** Fowler, 1938

det. PK. NTM S.11016-003 (TGT2465) 00° 04'S., 99° 01' E. Area C.

**Dendrochirus brachypterus** (Cuvier, 1829)

det. CSIRO. CSIRO CA1836. 20° 09'S., 116° 07'E. Areas B, C.

**Dendrochirus zebra** (Cuvier, 1829)

det. PK. CSIRO CA1303 19° 52'S., 118° 12'E. Areas B, C.

**Ebosia bleekeri** (Döderlein, 1884)

det. TGT. ANSP 152033 (TGT3189) 09° 01'S., 116° 18'E. Area B.

**Neomerinthe amplisquamiceps** (Fowler, 1938)

det. PK. AMS 1.22805-012 18° 28'S., 118° 15'E. Area C. Our material is not clearly different to *N. procurva* q.v.(the pectoral fin count is 20, for example).

**Neomerinthe megalepis** (Fowler, 1938)

det. L-C Chen. CAS 54544 (TGT2469) 00° 04'S., 99° 01'E. Area B.

**Neomerinthe procurva** Chen, 1981

det. L-C Chen. CAS 54545 (TGT3203) 09° 01'S., 116° 18'E. Area B.

**Neomerinthe erostris** (Alcock, 1896)

det. L-C. Chen. SDSU 83-16(TGT2317) 03° 24'S, 100° 33'E. Area A.

**Parascorpaena aurita** (Rüppell, 1838)

det. M. Matsunuma. NTM S. 10748-018 (TGT1016) 08° 43'S., 115° 16'E. Area B. Conspecific material is SDSU 83-13; (no field number).

**Pontinus macrocephalus** (Sauvage, 1882)

det. W.N. Eschmeyer. ANSP 152032 (TGT1750) 08° 58'S., 116° 34'E. Area B.

**Pterois antennata** (Bloch, 1787)

det. PK. LPPL JIF22 (TGT1544) 08° 22'S., 117° 15'E. Area B.

**Pterois paucispinula** Matsunuma & Motomura, 2014

det. M. Matsunuma. NTM S.10621-001 from 19° 57'S., 116° 17'E. Areas B, C.

**Pterois radiata** Cuvier, 1829

det. PK. LPPL JIF23 (PAN43) 08° 31'S., 115° 32'E. Area B.

**Pterois russelii** Bennett, 1831

det. PK. LPPL JIF24 (TGT2622) 08° 42'S., 115° 05'E. Areas B, C.

**Pterois volitans** (Linnaeus, 1758)

det. TGT. LPPL JIF25 (TGT1339I) 08° 46'S., 118° 17'E. Areas B, C.

**Rhinopias frondosa** (Günther, 1892)

det. TGT. ANSP 152031 (TGT3277I) 10° 55'S., 122° 43'E. Area B.

**Scorpaena neglecta** Temminck & Schlegel, 1843

det. PK. AMS 1.22821-048 18° 16'S., 118° 12'E. Area C.

**Scorpaena onaria** Jordan & Snyder, 1900

det. PK. AMS 1.22807-037 18° 32'S., 118° 17'E. Area C.

**Scorpaenodes evides** (Jordan & Thompson, 1914)

det. PK. WAM P.26191-007 20° 09'S., 116° 31'E. Area C.

**Scorpaenodes smithi** Eschmeyer & Rama Rao, 1972

det. PK. Specimen lost. 20° 15'S., 115° 59'E. Area C. (Conspecific Survey material at CSIRO). A catalogued example from the Survey area is BMNH 1933.8.11.4 from 11° 59'S., 126° 38'E.

**Scorpaenopsis neglecta** Heckel, 1837

det. PK. WAM P.26230-017 19° 01'S., 119° 25'E. Area C.

**Scorpaenopsis oxycephalus** (Bleeker, 1849)

det. PK. NTM S.10734-014 (TGT1227) 08° 10'S., 114° 15'E. Areas A, B, C.

**Scorpaenopsis venosa** (Cuvier, 1829)

det. W.N. Eschmeyer. CAS 54542 20° 15'S., 116° 02'E. Area C.

**SEBASTIDAE****Sebastes vibrantus** Morishita, Kawai & Motomura 2018.

det. H. Motomura. SDSU 83-14 (TGT1751) 08° 58'S., 116° 34'E. Area B.

**SETARCHIDAE****Ectreposebastes imus** Garman, 1899

det. W.N. Eschmeyer. BMNH 1984.1.1.63 (TGT (PJPW) 824) 08° 43'S., 114° 15'E. Area A.

**Lythrichthys cypho** (Fowler, 1938)

det. H. Wada. NTM S.10998-005 (TGT2523) 01° 25'S., 100° 19'E. Conspecific material at WAM P.26209-008. Areas A, C.

**Lythrichthys dentatus** Wada, Kai & Motomura, 2021

det. H. Wada. CSIRO CA1584. 10° 02'S., 130° 03'E. Areas A, C. Holotype.

**Setarches guentheri** Johnson, 1862

det. H. Wada. WAM P.26209-008 18° 18'S., 118° 08'E. Area C.

**SYNANCEIDAE****Erosa erosa** (Cuvier, 1829)

det. J.B. Hutchins. WAM P.26197-021 20° 05'S., 117° 05'E. Area C.

**Inimicus cuvieri** (Gray, 1835)

det. PK. LPPL JIF20 (TGT1394) 08° 46'S., 115° 02'E. Area B.

**Inimicus didactylus** (Pallas, 1769)

det. TGT. LPPL JIF21 (TGT2366) 01° 59'S., 99° 26'E. Areas A, C.

**Inimicus sinensis** (Valenciennes, 1833)

det. W.N. Eschmeyer. BMNH 1984.1.1.64 (TGT (PJPW) 711) 08° 25'S., 114° 25'E. Areas A, C.

**Minous groeneveldi** Matsumura & Motomura, 2018

det. PK. NTM S.11031-002 (TGT2621) 08° 42'S., 115° 05'E. Area B. Holotype.

**Minous pictus** Günther, 1880

det. M. Matsunuma. CSIRO CA1679 19° 29'S., 115° 59'E. Area C.

**Minous roseus** Matsunuma & Motomura, 2018

det. M. Matsunuma. CSIRO CA1844 20° 09'S., 116° 07'E. Area C. Holotype.

**Minous versicolor** Ogilby, 1910

det. PK. CSIRO CA1300 20° 31'S., 116° 00'E. Area C.

**Synanceia verrucosa** Bloch & Schneider, 1801

det. TGT. LPPL JIF18 (TGT1020) 08° 43'S., 115° 16'E. Area B.

**TETRAROGIDAE****\*Ablabys taenianotus** (Cuvier, 1829)

No figure voucher. Our specimen determined by PK (CSIRO uncatatalogued from 20° 50'S., 116° 27'E.). Area C.

*Diagnosis:* D XVII, 7-8. A III, 5. Head naked, small embedded scales on body. Dorsal fin begins above eyes, anterior spines (except first) much longer than posterior ones and not removed from rest of fin; membrane extends to spine tips; dorsal, anal and pectoral rays branched. Body tan or brown, streaked dark brown; pectoral fin barred brown.

**Cottapistus cottoides** (Linnaeus, 1758)

det. S.G. Poss. UMMZ 212292 (TGT3245) 08° 24'S., 116° 01'E. Areas B, C.

**Liocranium pleurostigma** (Weber, 1913)

det. H. Motomura. CSIRO CA1730 19° 38'S., 118° 40'E. Area C.

**Neocentropogon aeglefinus** (Weber, 1913)

det. PK. ANSP 152034 (TGT3144) 08° 27'S., 117° 47'E. Areas B, C.

**Neocentropogon trimaculatus** Chan, 1966

det. S.G. Poss. CAS 54602 (TGT3195) 09° 01'S., 116° 18'E. Areas B, C.

**Paracentropogon longispinis** (Cuvier, 1829)

det. S.G. Poss. ANSP 153167 (TGT2119) 08° 46'S., 115° 10'E. Areas B, C.

**Snyderina yamanokami** Jordan & Starks, 1901

det. S.G. Poss UMMZ 212291 (TGT3192) 09° 91'S., 116° 18'E. Area B.

**Richardsonichthys leucogaster** (Richardson, 1848)

det PK. CSIRO B.2984 20° 50'S., 116° 27'E. Area C.

**TRIGLIDAE****Lepidotrigla sp cf japonica** Bleeker, 1854

det. M. Gomon. Specimen lost. 19° 44'S., 116° 02'E. Area C. (Conspecific Survey material determined by CSIRO: CA1423 from 20° 48'S., 116° 00'E.). This species is an Australian-Indonesien endemic that will be described in a forthcoming review of Australian species (pers. comm. M. F. Gomon.) Another specimen is NTM S.11013-004 (TGT1797) 08° 40'S., 116° 37'E. Area B.

**Lepidotrigla sp. 1**

This specimen represents an undescribed Australian endemic species distributed off the northern Western Australia. (pers. comm M.F. Gomon) CSIRO CA1627 10° 02'S., 130° 03'E. Area C.

**\*Lepidotrigla sp 2**

M.F. Gomon informed us (October 2019) that this specimen represents another undescribed long-finned species in the complex endemic to Western Australia. Area C, northwest of Dampier (NMVA 1950 from 19° 60'S., 115°59'E.).  
*Diagnosis:* D IX, 14. A 14. L. lat. 59. Pectoral fin long, to 13-14<sup>th</sup> dorsal fin ray. Prominent broad rostral spine with many small adjacent ones. Scales weakly attached; breast and anterior 1/3 of belly naked. Pectoral fin mostly black with obvious pale spots (preserved colour).

**Lepidotrigla spiloptera** Günther, 1880

det. M.F. Gomon. NTM S.10752-015 (TGT3198) 09° 01'S., 116° 18'E. Areas A, B, C.

**Lepidotrigla maculapinna** Gomon & Kawai, 2018

det. M.F. Gomon. NTM S.10999-004 (TGT2460) 00° 25'S., 98° 40'E. Areas A, B, C. Paratype.

**Lepidotrigla macracaina** Gomon & Kawai, 2018

det. M.F. Gomon. NTM S.10995-006 (TGT2594) 08° 33'S., 114° 31'E. Areas A, B.

**Lepidotrigla russelli** del Cerro & Lloris, 1995

det. M.F. Gomon. CSIRO CA1114 14° 03'S., 124° 05'E. Area C.

**Lepidotrigla tanydactyla** Gomon & Kawai, 2018

det. M.F. Gomon. NTM S.10761-009 (TGT3147) 08° 27'S., 117° 47'E. Area B. Paratype.

**Lepidotrigla venusta** Fowler 1938

det. M. Gomon. AMS 1.22830-007 19° 19'S., 117° 13'E. Areas B, C.

**Pterygotrigla (Parapterygotrigla) multiocellata** (Matsubara, 1937)

det. PK. AMS 1.22807-029 18° 32'S., 118° 17'E. Area C.

**Pterygotrigla (Parapterygotrigla) macrorhynchus** Kamohara, 1936

det. T. Kawai. NTM S.10998-018 (TGT2510) 01° 25'S., 100° 19'E. Areas B, C.

**Pterygotrigla (Otohime) draiggoch** Richards, Yato & Last, 2003

det. PK. NTM S.10760-016 (TGT1737) 08° 58'S., 116° 34'E. Areas A, B, C.

**Pterygotrigla (Bovitrigla?) leptacanthus** (Günther, 1880)

det. PK. CSIRO CA1632 10° 02'S., 130° 03'E. Area C.

**Pterygotrigla (Pterygotrigla) ryukyuensis** Matsubara & Hiyama, 1932

det. PK & TGT. NTM S.10998-007 (TGT2525) 01° 25'S., 100° 19'E. Areas A, B.

## PERISTEDIIDAE

**Gargariscus prionocephalus** (Dumeril, 1869)

det. PK. CSIRO CA3724 10° 02'S., 130° 03'E. Area C.

**Peristedion liorhynchus** Günther, 1872

det. PK. AMS 1.22807-028 18° 32'S., 118° 17'E. Areas B, C.

**Satyrichthys laticeps** (Schlegel, 1852)

det. PK & T. Kawai. NTM S.10760-017 (TGT1740) 08° 58'S., 116° 34'E. Areas B, C. (Conspecific material is WAM P.26209-019 from 18° 18'S., 118° 08'E.).

**Satyrichthys moluccense** (Bleeker, 1850)

det. T. Kawai & PK. NTM S.10999-005 (TGT2456) 00° 25'S., 98° 40'E. Areas A, C.

\***Scalicus orientalis** (Fowler, 1938)

No figure voucher. PK has determined our material from northwestern Australia (e.g. WAM P.26209-009 from 18° 18'S., 118° 08'E.). Area C. *Diagnosis*: D<sub>2</sub> 21-22. A 20-22. Lower GR 18-20. 3 or 4 simple lip barbels and 3-4 simple chin barbels on each side of lower jaw. Second row of body scutes 34-36. Probably red in life, upper body spotted, fins marbled brown.

**Satyrichthys rieffeli** (Kaup, 1859)

det. T. Kawai. NTM S.10751-006 (TGT1681) 08° 30'S., 117° 46'E. Areas A, B, C.

**Satyrichthys welchi** (Herre, 1925)

det. PK & T. Kawai. Specimen lost. 09° 52'S., 129° 12'E. Conspecific Survey material (CA353) determined by CSIRO. Area C.

## APLOACTINIDAE

**Erisphex aniarus** (Thompson, 1967)

det. S.G. Poss. CAS 54596 10° 02'S., 120° 03'E. Areas B, C.

\* **Erisphex philippinus** (Fowler, 1938)

No figure voucher. Our specimen determined by S.G. Poss (CAS 54604 from 08° 36'S., 114° 41'E.). Area A. *Diagnosis* (in part by Poss): D. XI-XII, 14-16. A 1-11, 13-15. P 12-13. A single, continuous dorsal fin beginning above eye; ventral fin base just before pectoral fin base. Two sharp lachrymal spines. Body and fins tan, with scattered dark spots and markings; fin margins dark, edges white.

\* **Kanekonia queenslandica** Whitley, 1952

No figure voucher. Our specimen determined by S.G. Poss (CAS 54853 from 20° 58'S., 115° 55'E.). Area C. *Diagnosis* (in part by Poss): D XII-XIII, 8-10. A 1-11, 8-9. P 12-16. A single, continuous dorsal fin beginning above hind part of eye; ventral fin base under or just behind pectoral fin base; lachrymal and preoperculum spines blunt. Head large, 2.5-3.5 in SL; interorbital ridges thick, fused in middle of interorbital. Body thickset, its depth 2.5-2.7 in SL; skin prickly. Body and fins red-olive; red blotch on spinous dorsal fin extending onto back; ventral and caudal fins dark pink.

\***Paraploactis pulvinus** Poss & Eschmeyer, 1978

No figure voucher. Our specimen determined by S.G. Poss (CAS 54852 from 20° 39'S., 115° 58'E.). Area C. *Diagnosis*: D XIII-XIV, 9-10. A I, 8-9. P 14. VI, 3. A single continuous dorsal fin, first 3 spines longer than remainder; ventral fin base just behind pectoral fin base. Knobs, spines and ridges on head, interorbital ridges diverging strongly posteriorly; snout very steep with many cirri; large fleshy pad on isthmus  $\frac{1}{2}$ - $\frac{3}{4}$  as wide as long. Skin roughened and knobby. Body tan with dark banding on fins.

## PLATYCEPHALIDAE

**Cociella punctata** (Cuvier, 1829)

(A) det. L.W. Knapp NTM S.10733-014 (TGT1288) 08° 46'S., 115° 10'E. (B). det. L.W. Knapp. BMNH 1984.1.1.65 (TGT1393) 08° 46'S., 115° 02'E. This is the colour form *guttata* Cuvier, 1829. Area B.

**Cymbacephalus nematophthalmus** (Günther, 1860)

det. PK. CSIRO CA1160 12° 30'S., 130° 05'E. Area C.

**Elates ransonnettii** (Steindachner, 1876)

det. TGT. USNM 264801 (TGT2233) 06° 13'15"S., 105° 44'E. Areas A, C.

**Grammoplites scaber** (Linnaeus, 1758)

det. PK. NTM S.10734-016 (TGT1033) 08° 10'S., 114° 54'E. Area B.

**Cymbacephalus bosschei** (Bleeker, 1860)

det. PK. CSIRO CA1862 14° 32'S., 136° 06'E. Area C.

**Inegocia harrisii** (McCulloch, 1914)

det. CSIRO CA1215 13° 25'S., 126° 19'E. Area C.

**Inegocia japonica** (Cuvier, 1829)

det. PK. CSIRO CA1221 19° 38'S., 119° 31'E. Areas B, C.

**Onigocia macrocephala** (Weber, 1913)

det. H. Imamura. NTM S.10739-003 (TGT1781) 08° 57'S., 116° 08'E. Areas B, C.

**Onigocia sp**

det. H. Imamura. Specimen lost. 19° 38'S., 119° 31'E. (Conspecific Survey material determined by CSIRO is CA1867 from 20° 40'S., 116° 00'E.). Area C.

**Onigocia spinosa** (Temminck & Schlegel, 1843)

det. H. Imamura. Specimen lost. 11° 01'S., 128° 37'E. (Conspecific Survey material determined by CSIRO is CA1876 from 20° 16'S., 116° 02'E.). Area C.

**\*Onigocia pedimacula** (Regan, 1908)

No figure voucher. Our material determined by L.W. Knapp. NTM S.11086-001 20° 15'S., 116° 02'E. Area C. *Diagnosis*: no cirrus on upper surface of eye; iris lappet scalloped; 2 pairs of nasal spines; 14-16 spines on suborbital ridge; 3 preocular spines. 30-32 scales in longitudinal series.

**Platycephalus endrachtensis** Quoy & Gaimard, 1825

det. H. Imamura. NTM S.10733-044 (TGT1289) 08° 46'S., 115° 10'E. Areas B, C. Conspecific Survey material (USNM 264795) determined by L.W. Knapp. Our material showed some differences in gill raker count and head proportions to eastern Australian populations.

**Platycephalus westraliae** (Whitley, 1938)

det. H. Imamura. CSIRO CA1162. 20° 45'S., 115° 32'E. Area C.

**Ratabulus fulviguttatus** Imamura & Gomon, 2010

det. M. Gomon. Specimen lost. 10° 02'S., 130° 03'E. Area C. Conspecific Survey material determined by M. Gomon (e.g. AMS 1.22805-013 from 18° 25'S., 118° 15'E.).

**Rogadius pristiger** (Cuvier, 1829)

det. H. Imamura. NTM S.11013-001 (TGT1798) 08° 40'S., 116° 37'E. Areas B, C.

**Sorsogona tuberculata** (Cuvier, 1829)

det. PK. NTM S.11013-002 (TGT1799) 08° 40'S., 116° 37'E. Areas B, C.

**Rogadius welanderi** (Schultz, 1966)

det. L.W. Knapp. USNM 264803 (TGT3030) 08° 43'S., 115° 16'E. Area B.

**Insiadiator macracanthus** (Bleeker, 1869)

det. L.W. Knapp. CSIRO B.2126 13° 29'S., 129° 01'E. Areas A, B, C.

**Kumococius rodericensis** (Cuvier, 1829)

det. AMS. 1.21842-032 10° 35'S., 133° 45'E. Other examples from Survey Area C.

**Cociella hutchinsi** Knapp, 1996

det. L.W. Knapp. CSIRO CA1865 09° 16'S., 135° 00'E. Area C. Holotype.

**Rogadius patriciae** Knapp, 1987

det. L. W. Knapp WAM P.26230-006 19° 07'S., 119° 25'E. Area C.

**Sunagocia otaitensis** (Cuvier, 1829)

det. L.W. Knapp. NTM S.10734-015 (TGT1221). 08° 10'S., 114° 54'E. Areas A, B.

**BEMBRIDAE****Bembras megacephala** Imamura & Knapp, 1998

det. PK. USNM 264796 (TGT1726) 08° 58'S., 116° 34'E. Areas B, C. Paratype.

**PLECTROGENIIDAE****Bembradium sp.**

det. PK. NTM S.10760-004 (TGT1710) 08° 58'S., 116° 34'E. Area B. We remain unsure whether our material truly belongs in *B. roseum* Gilbert because of certain differences (such as the lower 10 pectoral fin rays being thickened (not in *B. roseum*), and the lower number of serrae (11-12) on the suborbital ridge (18-20 in the type of *B. roseum*; although Ms Saki Kishimoto has recorded 3-14 serrae; pers comm 2020). There are three known species of *Bembradium* Gilbert: *roseum* Gilbert (Madagascar to Japan, Indonesia, Hawaii, New Caledonia, Chile); *furici* Fourmanoir & Rivaton (south-west Pacific); and *magnoculum* Kishimoto, Kawai, Tashiro & Aungtonya, 2019 (Andaman Sea to Thailand).

**HOPlichthyIDAE****Hoplichthys gilberti** Jordan & Richardson, 1908

det. PK. No figure voucher; 160 mm SL specimen from Lombok, Lesser Sunda Islands, USNM 264804; and AMS I.34494-002 from south-east of Lombok, determined by M. McGruther. Area B.

**Hoplichthys imamurai** Nagano, McGruther & Yabe, 2013

det. Y. Nagano. AMS 1.22807-040. 18° 39'S., 117° 53'E. Areas A, B, C. Holotype.

## DACTYLOPTERIDAE

**Dactyloptena macracantha** (Bleeker, 1855)

det. W.N. Eschmeyer. CAS 53136 (TGT2464) 00° 04'S., 99° 01'E. Areas A, B, C.

**Dactyloptena orientalis** (Cuvier, 1829)

det. W.N. Eschmeyer. CAS 53138 (TGT2603) 08° 33'S., 114° 31'E. Areas A, B, C.

**Dactyloptena papilio** Ogilby, 1910

det. G. Leyland. Specimen lost. (no field number). (Conspecific Survey material determined by CSIRO is CSIRO CA1714 from 13° 06'S., 125° 03'E.). Area C.

**Dactyloptena peterseni** (Nyström, 1887)

No figure voucher. det. CSIRO (e.g. CSIRO CA1720 from 19° 40'S., 116° 12'E.). Areas B, C.

## PEGASIDAE

**Pegasus volitans** Linnaeus, 1758

det. CSIRO. Specimen lost. (no field number). (Conspecific Survey material is CSIRO CA2139 from 16° 56'S., 140° 10'E.). Area C.

**Eurypegasmus draconis** (Linnaeus, 1766)

det. PK. CSIRO CA1427 20° 39'S., 115° 58'E. Area C.

## ACROPOMATIDAE

1. Recognition of this family, also SYNAGROPIDAE and MALAKICHTHYIDAE, follows Ghedotti et al., 2018. Dr Artem Prokofiev (pers comm., November 2021) has advised however, that distinction of these families and other genera variously placed within the Acropomatiformes relies largely on molecular data; and that SYNAGROPIDAE and MALAKICHTHYIDAE should be placed within the ACROPOMATIDAE sensu Johnson, 1984.

2. We recommend readers consult Ghedotti et al (2018), Schwarzahans & Prokofiev (2017), Betancur et al (2017), Yamanoue (2016) and Johnson (1984) for discussion on this matter.

**Acropoma leobergi** Prokofiev, 2018

det. A. Prokofiev. LPPL JIF44 (TGT3158) 08° 27'S., 117° 47'E. Areas A, B, C.

**Doederleinia berycoides** (Hilgendorf, 1879)

det. PK. Specimen lost. 10° 02'S., 130° 03'E. Areas A, B, C. (Conspecific Survey material is CSIRO CA346 from 18°33'S., 118° 00'E.).

## SYNAGROPIDAE

**Synagrops japonicus** (Döderlein, 1883)

det. PK. WAM P.26209-020 18° 18'S., 118° 08'E. Areas A, B, C.

**Parascombrops philippinensis** (Günther, 1880)

det. PK. NTM S.10998-007 (TGT2524) 01° 25'S., 100° 19'E. Areas B, C.

## MALAKICHTHYIDAE

**Malakichthys elegans** Matsubara & Yamaguti, 1943

det. K. Mochizuki & TGT. NTM S.10998-019 (TGT2517) 01° 25'S., 100° 19'E. Areas A, C.

**Malakichthys griseus** Döderlein, 1883

No figure voucher. det. Matsuura. WAM P.26208-019 18° 22'S., 118° 03'E. Area C.

\***Malakichthys levis** Yamanoue & Matsuura, 2002

No figure voucher. Material determined by Y. Yamanoue. CSIRO CA1391, CA333 and CA1389, north of NW Cape, Western Australia. Area C. *Diagnosis*: No paired spines on chin near symphysis; D X, 9-10. GR on lower arm 20–23; Tr above 5-7; A III, 8; P 14; L. lat. 49-53; body depth 26-35% SL.

## CENTROGENYIDAE

**Centrogenys vaigiensis** (Quoy & Gaimard, 1824)

det. PK. CSIRO CA1577 11° 53'S., 131° 15'E. Area C.

## SERRANIDAE

Arrangement within this family follows Parenti & Randall, 2020.

### Subfamily Serraninae

**Chelidoperca flavolineata** Matsunuma, Tan & Peristiwady, 2020

det. M. Matsunuma. NTM S. 10752-016 (TGT3217) 09° 01 'S., 116° 18'E. Areas A, B, C.

**Chelidoperca stella** Matsunuma & Motomura, 2016

det. M. Matsunuma. CSIRO CA887 19° 40'S., 116° 12'E. Area C.

## Subfamily Epinephelinae

### **Aethaloperca rogae** (Fabricius, 1775)

det. J. Randall on photo. Specimen lost (no field number). Area A.

### **Anypserodon leucogrammicus** (Valenciennes, 1828)

det. TGT. LPPL JIF26 (TGT3323) 10° 18'S., 120° 22'E. Area B.

### **Cephalopholis argus** Schneider, 1801

det. TGT. LPPL JIF27 (TGT3316) 10° 18'S., 120° 22'E. Area B.

### **Cephalopholis boenak** (Bloch, 1790)

det J.B. Hutchins. WAM. P.26188-012 20° 21'S., 115° 53'E. Areas A, B, C.

### **Cephalopholis miniata** (Forsskål, 1775)

det. J. Randall. NTM S.10734-018 (TGT1264) 08° 10'S., 114° 54'E. Areas A, B.

### **Cephalopholis sexmaculata** (Rüppell, 1830)

det. J. Randall. NTM S.10748-019 (TGT1024) 08° 43'S., 115° 16'E. Area B.

### **Cephalopholis sonnerati** (Valenciennes, 1828)

det. J. Randall. NTM S.10734-017 (TGT1039) 08° 10'S., 114° 54'E. Area B.

### **Cephalopholis urodeta** (Forster, 1801)

det. J. Randall. LPPL JIF28 (TGT1021) 08° 43'S., 115° 16'E. Area B.

### **Chromileptes altivelis** (Valenciennes, 1828)

det. TGT. LPPL JIF29 (TGT921) 08° 30'S., 116° 42'E. Area B.

### **Epinephelus amblycephalus** (Bleeker, 1857)

det. J.B. Hutchins. WAM P.26251-001 16° 03'S., 120° 58'E. Areas A, B, C.

### **Epinephelus areolatus** (Forsskål, 1775)

det. TGT. LPPL JIF30. (TGT2593) 08° 33'S., 114° 31'E. Areas A, B, C.

### **Epinephelus bleekeri** (Vaillant, 1878)

det. J. Randall. BPBM 29372 (TGT3256) 09° 01'S., 116° 18'E. Areas A, B.

### **Epinephelus coeruleopunctatus** (Bloch, 1790)

det. J. Randall. LPPL JIF31 (TGT910) 08° 43'S., 115° 16'E. Area B.

### **Epinephelus cyanopodus** (Richardson, 1846)

det. J. Randall on photo. Specimen lost. (TGT1120) 08° 28'S., 119° 08'E. Area B.

### **Epinephelus epistictus** (Temminck & Schlegel, 1843)

det. J. Randall on photo. Specimen lost. (TGT1120) 08° 28'S., 119° 08'E. Area B.

### **Epinephelus fasciatus** (Forsskål, 1775)

det. J. Randall. LPPL JIF33 (TGT3174) 08° 43'S., 115° 16'E. Areas A, B, C.

### **Epinephelus heniochus** Fowler, 1904

det. PK. NTM S.10998-006 (TGT2536) 03° 45'S., 101° 54'E. Areas A, C.

### **Epinephelus latifasciatus** (Temminck & Schlegel, 1843)

det. J. Randall. No figure voucher. AMS 1.22805-025 from 18° 28'S., 118° 15'E.). Area C.

### **Epinephelus longispinis** (Kner, 1864)

det. J. Randall on photo. Specimen lost. (TGT997) 08° 30'S., 116° 42'E. Areas A, B.

### **Epinephelus maculatus** (Bloch, 1790)

det. CSIRO. CSIRO CA893 11° 22'S., 125° 17'E. Areas B, C.

### **Epinephelus magniscuttis** Postel, Fourmanoir & Guézé, 1963

det. J. Randall & PK. CSIRO CA2280 10° 19'S., 129° 57'E. Area C.

### **Epinephelus malabaricus** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF34 (TGT2392) 01° 57'S., 99° 26'E. Areas A, B, C.

### **Epinephelus melanostigma** Schultz, 1953

det. J. Randall. BPBM 28950 (TGT1539) 08° 06'S., 115° 16'E. Area B.

### **Epinephelus polyphkadion** (Bleeker, 1849)

det. J. Randall. LPPL JIF35 (TGT1416) 08° 03'S., 110° 05'E. Areas B, C.

### **Epinephelus multinotatus** (Peters, 1876)

det. Randall. CSIRO CA898, 20° 08'S., 117° 03'E. Area C. *E. rankini* Whitley is a synonym (Parenti & Randall, 2020)

### **Epinephelus ongus** (Bloch, 1790)

det. J. Randall. NTM S.11011-003 (TGT3314) 10° 18'S., 120° 22'E. Area B.

### **Epinephelus poecilonotus** (Temminck & Schegel, 1843)

det. J. Randall on photo. Specimen lost (no field number). Area A.

**Epinephelus quoyanus** (Valenciennes, 1830)

det. J. Randall. BPBM 28953 (TGT1038) 08° 10'S., 114° 54'E. Areas A, B, C.

**Epinephelus radiatus** (Day, 1868)

det. J. Randall. AMS 1.22828-025 19° 19'S., 117° 12'E. Area C.

**Epinephelus retouti** Bleeker, 1868

det. J. Randall. NTM S.10734-019 (TGT1052) 08° 10'S., 115° 54'E. Area B.

**Epinephelus rivulatus** (Valenciennes, 1830)

det. J. Randall on photo. Specimen (A) lost. The survey caught two colour variants. (TGT995) 08° 30'S., 116° 42'E. Area B.

**Epinephelus sexfasciatus** (Valenciennes, 1828)

det. PK. CSIRO CA883 18° 53'S., 120° 49'E. Area C.

**Epinephelus tauvina** (Fabricius, 1775)

det. TGT. LPPL JIFJ6 (TGTJ142) 08° 37'S., 118° 02'E. Areas B, C.

**Epinephelus undulosus** (Quoy & Gaimard, 1824)

det. J. Randall. LPPL JIF37 (TGTJ257) 09° 01'S., 116° 18'E. Areas A, B.

**Epinephelus stictus** Randall & Allen, 1987

det. J. Randall on photo. Specimen lost (est. at 380 mm SL). Conspecific material is WAM P.28277-001. Juveniles of this species have also been obtained (CSIRO collection, AS4/80 and AS5/80 cruises). Area C.

**\*Plectropomus leopardus** (Lacepède, 1802)

No figure voucher. Specimen lost. det. J. Randall on photo (TGT1000) from 08° 30'S., 116° 42'E. Area B. *Diagnosis*: head and body with small blue spots; no spots on lower part of body, 2 or more on pectoral fin base; 2 or 3 spots on inner pectoral fin base. Gill rakers long; hind anal fin margin convex. 16 rays in pectoral fin.

**Plectropomus maculatus** (Bloch, 1790)

det. CSIRO. CSIRO CA2251 20° 15'S., 115° 56'E. Areas B, C.

**Plectropomus pessuliferus** (Fowler, 1904)

det. D.F. Hoese. AMS 1.24048-001 (TGT2439) 00° 20'N., 98° 33'E. Area A.

**Variola albimarginata** Baissac, 1953

det. J. Randall. NTM S.11038-001 (TGT3001) 08° 30'S., 117° 58'E. Areas B, C.

**Variola louti** (Fabricius, 1775)

det. TGT. NTM S.10771-002 (TGT2402) 00° 35'N., 97° 55'E. Areas A, B, C.

**Diploprion bifasciatus** Cuvier, 1828 (Tribe Diploprionini)

det. CSIRO. Specimen lost. 19° 59'S., 117° 24'E. Area C. No other specimens were obtained on the Survey.

**Grammistes sexlineatus** (Thunberg, 1792) (Tribe Grammistini)

det. TGT. LPPL JIF38 (TGT1048) 08° 46'S., 115° 10'E. Area B.

**Subfamily Anthiadae****Pseudanthias gibbosus** (Klunzinger, 1884)

det. TGT. BPBM 29352 (TGT2597) 08° 33'S., 114° 31'E., Areas A, B. Conspecific material from the survey determined by P.C. Heemstra.

**Pseudanthias rubrizonatus** (Randall, 1983)

Voucher (A) det. J. Randall. RUSI 19988 (TGT1373 in part) (male) 08° 46'S., 115° 02'E. Voucher (B) det. A.C. Gill on photo. RUSI 19987 (TGT3228) (female) 09° 01'S., 116° 18'E. Area B.

**Pseudanthias squamipinnis** (Peters, 1855)

det. P.C. Heemstra. NTM S.11011-002 (TGT3294) 10° 55'S., 122° 43'E. Area B.

**Odontanthias rhodopeplus** (Günther, 1872)

det. P.C. Heemstra on photo. Specimens lost (no field number). Area A.

**Plectranthias japonicus** (Steindachner, 1883)

det. J. Randall. BPBM 28951 (TGT3149) 08° 27'S., 117° 47'E. P.C. Heemstra has determined duplicate material from the Survey (RUSI 20016).

**Plectranthias ferrugineus** Gill, Pogonoski, Moore & Johnson, 2021

No figure voucher. det. H. Wada. RUSI 19990 (TGT3126) from 08° 37'S., 118° 02'E.). Area B. Drawing of preserved specimen. 61 mm SL when caught.

**Selenanthias analis** Tanaka, 1918

det. PK. AMS 1.22807-039 18° 32'S., 118° 17'E. Area C.

**\*Pseudanthias lunulatus** (Kotthaus, 1973)

Unphotographed specimen (RUSI 20015, (PJPW33) from south Java. Area A. det. P.C. Heemstra. *Diagnosis*: First dorsal spine shorter than 2<sup>nd</sup> spine, body depth 2.6-2.9 in SL; tail lunate. Pinkish orange with a yellow, violet-edged stripe from upper lip through eye to pectoral fin base, leading edge of ventral fin white. D X, 15-16. A III, 7. P 17-18. GR: 9-10 + 22-25. L. lat. 38-43.

\***Anthias sp.** Unphotographed specimen (RUSI 19989, TGT1373 in part, from 08° 46'S., 115° 02'E.) Area B. det. P.C. Heemstra.



**CALLANTHIIDAE**

**Callanthias sp cf australis** Ogilby, 1899

det. W.D. Anderson to genus on photo. Specimen lost. Area A.

**Callanthias sp cf japonicus** Franz, 1910

det. W.D. Anderson to genus on photo; PK on photo. Specimen lost. Area A. Anderson et al (2015) cited Kuitert's (2004:10) remark that a population of *Callanthias* off northwestern Australia appeared to be *C. japonicus*.

**PSEUDOCROMIDAE**

**Pseudochromis steenei** Gill & Randall, 1992

det. J. Randall. NTM S.11035-001 (TGT3246) 08° 24'S., 116° 01'E. Areas B, C. Paratype.

**Congrogadus spinifer** (Borodin, 1933)

det. R. Winterbottom on photo. CSIRO CA1542 12° 37'S., 129° 48'E. Area C.

**Congrogadus subducens** (Richardson, 1843)

det. R. Winterbottom on photos and notes. Specimen lost. 20° 28'S., 115° 32'E. Area C.

**GLAUCOSOMATIDAE**

**Glaucosoma buergeri** Richardson, 1845

det. CSIRO. CSIRO CA959 19° 40'S., 116° 12'E. Area C.

**Glaucosoma magnificum** (Ogilby, 1915)

det. CSIRO. Specimen lost. 13° 30'S., 125° 41'E. (Conspecific survey material determined by CSIRO is CA1098 from 13° 38'S., 124° 30'E). Area C.

**TERAPONTIDAE**

**Pelates quadrilineatus** (Bloch, 1790)

det. TGT & PK. NTM S.10733-003 (TGT1282) 08° 46'S. 115° 10'E. Areas B, C.

**Terapon jarbua** (Fabricius, 1775)

det. TGT. LPPL JIF40 (TGT2614) 08° 42'S., 115° 05'E. Areas A, B, C.

**Terapon puta** Cuvier, 1829

det. TGT. NTM S.10744-006 (TGT926) 08° 30'S., 116° 42'E. Area B.

**Terapon theraps** Cuvier, 1829

det. TGT. LPPL JIF39 (TGT2213) 06° 20'30"S., 109° 10'E. Areas A, B, C.

**BANJOSIDAE**

**Banjos banjos brevispinis** Matsunuma & Motomura, 2017

det. G. Hardy. NMNZ P.015089 (TGT3199) 09° 01'S., 116° 18'E. Areas B, C. Paratype.

**PRIACANTHIDAE**

**Cookeolus japonicus** (Cuvier, 1829)

det. W. Starnes. USNM 263762 (TGT1414) 08° 01'S., 116° 18'E. Areas A, B, C

**Priacanthus blochii** Bleeker, 1853

det. W. Starnes. USNM 263758 (TGT2531) 01° 25'S., 100° 19'E.

**Heteropriacanthus carolinus** (Cuvier, 1829)

det. W. Starnes on photo. NTM S.10732-007 (PAN20) 08° 31'S., 115° 32'E. Areas A, B, C.

**Priacanthus hamrur** (Fabricius, 1775)

det. W. Starnes. USNM 263761 (TGT2414) 00° 35'N., 97° 55'E. Areas A, B, C.

**Priacanthus macracanthus** Cuvier, 1929

det. W. Starnes. USNM 263759 (TGT2557) 03° 07"S., 101° 20'E. Areas A, B, C.

**Priacanthus tayenus** Richardson, 1846

det. TGT. LPPL JIF207 (TGT2587) 07° 58'S., 109° 20'E. Areas A, B, C.

**Priacanthus sagittarius** Starnes, 1988

det. W. Starnes. USNM 263757 (TGT2291) 04° 07'S., 101° 04'E. Areas A, B, C. Paratype.

**Priacanthus fitchi** Starnes, 1988

det. W. Starnes. USNM 263760 (TGT2454). 00° 25'ES, 98° 40'E. Areas A, B, C. This species has only been caught below 170 m. Paratype.

**Pristigenys nipponia** (Cuvier, 1829)

det. CSIRO. CSIRO B.2174. 09° 57'S., 129° 25'E. Areas A, C.

## APOGONIDAE

### **Ozichthys albimaculosus** (Kailola, 1976)

det. PK. WAM P.26567-001 13° 14'S., 127° 53'E. Area C.

### **Ostorhinchus apogonoides** (Bleeker, 1856)

det. PK. WAM P.28134-002 (TGT2309) 03° 24'S., 100° 33'E. Area A.

### \***Ostorhinchus atrogaster** (Smith & Radcliffe, 1912)

No figure voucher. G.R. Allen determined our specimens from 19° 57'S., 116° 17"E. WAM P.28306-001. *Diagnosis*: Seven dorsal fin spines; caudal fin forked. Preoperculum margin serrate, ridge and suborbital smooth. Total GR 20-24, rakers slender; palatine teeth present. Body cream with silvery band from head to tail base; brown band from snout to eye, mouth cavity dark grey or black. Area C.

### **Ostorhinchus aureus** (Lacepède, 1802)

det. G.R. Allen. WAM P.28045-002 (TGT1590) 08° 06'S., 115° 16'E. Areas B, C.

### **Apogonichthyoides brevicaudatus** (Weber, 1909)

det. PK. WAM P.26252-001 19° 03'S., 120° 23'E. Areas B, C.

### **Jaydia carinata** (Cuvier, 1828)

det. PK. CSIRO CA1599 19° 14'S., 116° 10'E. Area C.

### **Fibramia lateralis** (Valenciennes, 1832)

det. T. Fraser. WAM P.28044-002 (TGT1028) 08° 46'S., 115° 10'E. Area B.

### **Apogonichthyoides timorensis** (Bleeker, 1854)

det. PK. WAM P.28090-001 (TGT2311) 03° 24'S., 100° 33'E. Area B.

### **Jaydia smithi** Kotthaus, 1970

det. O. Gon. NTM S.10996-003 (TGT2308) 03° 24'S., 100° 33'E. Areas A, B, C.

### **Ostorhinchus hartzfeldii** (Bleeker, 1852)

det. G.R. Allen. Specimen lost. 12° 37'S., 129° 48'E. (Conspecific Survey material determined by G.R. Allen is WAM P.26197-015 from 20° 05'S., 117° 05'E.). Area C.

### **Ostorhinchus hoevenii** (Bleeker, 1854)

det. G.R. Allen. WAM P.28046-001 (TGT1051) 08° 10'S., 114° 54'E. Area B.

### **Ostorhinchus sp. 1**

det. T. Fraser. CSIRO CA 1572 15° 32'S., 124° 02'E. Area C.

### **Ostorhinchus moluccensis** (Valenciennes, 1832)

det. G.R. Allen. WAM P.28044-004 (TGT1049) 08° 46'S., 115° 10'E. Area B.

### **Apogonichthyoides atripes** (Ogilby, 1916)

det. PK. CSIRO CA 1617 12° 18'S., 129° 18'E. Areas B, C.

### **Ostorhinchus nigrocincta** (Smith & Radcliffe, 1912)

det. PK. WAM P.28134-003 (TGT2310) 03° 24'S., 100° 33'E. Areas A, B.

### **Ostorhinchus novemfasciatus** (Cuvier, 1828)

det. G.R. Allen. WAM P.28047-001 (TGT3017) 08° 43'S., 115° 16'E. Areas B, C.

### **Jaydia poeciloptera** (Cuvier, 1828)

det. PK. Specimen lost. 10° 41'S., 127° 42'E. Areas A, B, C.

### **Ostorhinchus fasciatus** (Shaw, 1790)

det. TGT. LPPL JIF41 (TGT2160) 08° 46'S., 115° 13'E. Areas A, B, C.

### **Ostorhinchus taeniophorus** (Regan, 1908)

det. O. Gon. WAM P.28044-005 (TGT1044) 08° 46'S., 115° 10'E. Area B.

### **Ostorhinchus semilineatus** (Temminck & Schlegel, 1843)

det. PK. NTM S.10824-006 (TGT2365) 01° 59'S., 99° 26'E. Areas A, B, C.

### **Ostorhinchus septemstriatus** (Günther, 1880)

det. PK. WAM P.26188-013 20° 21'S., 115° 53'E. Areas B, C.

### **Ostorhinchus sp. 2**

det. O. Gon. Specimen lost (no field number). (Conspecific Survey material is CSIRO CA2895 from 19° 37'S., 117° 33'E.). Area C.

### **Ostorhinchus chrysopomus** (Bleeker, 1854)

det. PK. WAM P.28044-001 (TGT1065) 08° 46'S., 115° 10'E. Area B.

### \***Apogon sp.**

No figure voucher. G.R. Allen determined our material (e.g. WAM P.26197-013 from 22° 55'S., 117° 05'E.). *Diagnosis*: seven dorsal spines; serrated preopercular margin, ridge and suborbital; total GR 17-18; buccal cavity charcoal, 2 dark lines on head, dark spot at caudal fin base. Areas B, C.

**\*Paxton concilians** Baldwin & Johnson, 1999

No figure voucher. det. C. Baldwin & G.D. Johnson (WAM P.26197-019 from 20° 05'S., 117° 05'E.). *Diagnosis*: Bright yellow head, body and fins, outer 1/3 of dorsal fin black. Body naked. Mouth very large, teeth on jaws and vomer caninoid. Dorsal fin with 3 spines, anal with 18-19 rays. 11 formed gill rakers. 20 pectoral rays. Gill opening wide; caudal fin truncate. Area C.

**Taeniamia fucata** (Cantor, 1849)

det. G.R. Allen on photo. BMNH 1984.1.1.66 (TGT 1403) 08° 46'S., 115° 02'E. Areas A, B.

**Cheilodipterus isostigma** (Schultz, 1940)

det. G.R. Allen. NTM S.10733-019 (TGT1064) 08° 46'S., 115° 10'E. Area B.

**Cheilodipterus macrodon** (Lacepède, 1802)

det. PK. LPPL JIF42 (TGT1589) 08° 06'S., 115° 16'E. Area B.

**\*Foa fo** Jordan & Seale, 1905

det. PK. WAM P.28043-003 (TGT1621) 07° 16'S., 118° 12'E. Area B. *Diagnosis*: Lateral line not complete, ending before soft dorsal fin, with 8-12 pored scales. Seven dorsal fin spines; caudal fin rounded. Palatine teeth present; preopercular ridge and margin entire. Body mottled brownish with five darker bars: first before dorsal fin, second from middle of spinous dorsal, third from middle of soft dorsal fin, fourth behind soft dorsal fin, last across peduncle; gill rakers and rudiments usually 13-15; body scales margins uniform to pale edging; whitish spot in axil of pectoral fin, another behind soft dorsal fin; spinous dorsal fin mostly dark brown. Total GR 13-15.

**Gymnapogon sagittarius** Yoshida, Kawai & Motomura, 2019

det. H. Motomura. WAM P.28134-001 (TGT2313) 03° 24'S., 100° 33'E. Area B.

**Pseudamia gelatinosa** Smith, 1956

det. H.K. Larson. NTM S.10824-001 (TGT2370) 01° 59'S., 99° 26'E. Area B.

**Rhabdamia gracilis** (Bleeker, 1856)

det. PK. WAM P.28137-001 (TGT2283) 06° 07'S., 102° 25'E. Areas A, B, C.

**Siphamia fuscolineata** Lachner, 1953

det. PK. WAM P.28136-001 (TGT2374) 01° 59'S., 99° 26'E. Area B.

**Siphamia roseigaster** (Ramsay & Ogilby, 1887)

det. PK. Specimen lost (was 50 mm SL). 15° 30'S., 124° 01'E. (Conspecific Survey material determined by CSIRO is CSIRO B.2052 from 13° 25'S., 126° 19'E.). Area C.

**Siphamia tubifer** Weber, 1909

det. G.R. Allen. WAM P.28050-001 (TGT1647) 08° 57'S., 116° 17'E. Areas B, C.

**\*Jaydia argyrogaster** (Weber, 1909)

No figure voucher. Our material determined by O. Gon. (e.g. WAM P.26212-007 19° 14'S., 118° 22'E.). Area C. *Diagnosis*: D VII; I, 9. A ii, 8. P. 15-16. Caudal fin truncate. Three or 4 rows of dusky golden or bronze blotches on sides; all except pectoral fins dark.

**Sphaeramia orbicularis** (Cuvier, 1828)

det. TGT. LPPL JIF43 (TGT2154) 08° 46'S., 115° 13'E. Area B.

**SILLAGINIDAE****Sillago burrus** Richardson, 1842

det. TGT & R.J. McKay. NTM S.10754-002 (TGT1179) 08° 48'S., 118° 57'E. Areas A, B.

**Sillago robusta** Stead, 1908

det. R.J. McKay. CSIRO CA1312 17° 25'S., 121° 50'E. Area C.

**Sillago sihama** (Fabricius, 1775)

det. R.J. McKay QM I. 20280 (TGT1084) 08° 46'S., 115° 10'E. Areas B, C.

**Sillago vittata** McKay, 1985

det. R.K. McKay. CSIRO CA1342 17° 25'S., 121° 50'E. Area C.

**\*Sillago asiatica** McKay 1982

No figure voucher. Our specimen determined by R.J. McKay (BMNH 1980.10.27:1-2 (PJPW2008) from 08°32'S., 116° 52'E.). *Diagnosis*: Swim bladder with anterolateral extensions recurved posteriorly; no dark mark on pectoral fin base. Head and body pale yellowish brown; fins hyaline, margins of unpaired fins finely spotted brown; upper and lower margins of caudal fin dark brown. D2 20-21. As 21-23. L. lat. 67-70. Area B.

**Sillago ingenuua** McKay, 1985

det. R.J. McKay. CSIRO CA1940 13° 29'S., 129° 01'E. Area C.

**\*Sillago lutea** McKay, 1985

No figure voucher. R.J. McKay has determined this species among Survey material (e.g. QM 1.20305 from 11° 47'S., 136° 16'E.; WAM P.14261-001). *Diagnosis*: Swim bladder without posteriorly recurved anterolateral extensions; no dark mark on pectoral fin base. First dorsal fin membrane tipped black. D2 20-22. A2 21-24. L. lat. 67-72. Area C. Paratype.

**LOBOTIDAE**

**Hapalogenys dampieriensis** Iwatsuki & Russell 2006

det. Y. Iwatsuki. CSIRO CA1552. 19° 34'S., 116° 09'E. Area C. Paratype.

**LATILIDAE (=Branchiostegidae)**

**Branchiostegus sawakinensis** Amirthalingam, 1969

det. PK. WAM P.26201-001 19° 05'S., 117° 37'E. Area C. Paratype.

**Branchiostegus australiensis** Dooley & Kailola, 1988

det. J.K. Dooley on photo. Specimen lost, which was 240 mm SL when caught. Area A.

**Branchiostegus gloerfelti** Dooley & Kailola, 1988

det. J.K. Dooley on photo. Specimen lost. Area A.

**Branchiostegus australiensis** Dooley & Kailola, 1988

det. J.K. Dooley. WAM P.27217-004 26° 21'S., 112° 35'E. Area C. Drawing made from a colour transparency of the specimen, which was 265 mm SL when caught. Holotype.

\***Branchiostegus gloerfelti** Dooley & Kailola, 1988

No figure voucher. det J.K. Dooley. (WAM P.28304-001 (PJPW2071) from 00° 22'S., 98° 44'E.). Area A. Holotype.

**MALACANTHIDAE**

**Malacanthus brevirostris** Guichenot, 1848

No figure voucher. Our 2 juvenile specimens (BMNH 1984.4.11.7-8; (PJPW2043)) from 08° 32'S., 114° 27'E. determined by J.K. Dooley. Area A. (Photo supplied by N. Rau of a Philippines specimen).

**Malacanthus latovittatus** (Lacepède, 1801)

det. TGT. LPPL JIF45 (TGT3033) 08° 43'S., 115° 16'E. Area B.

**LACTARIIDAE**

**Lactarius lactarius** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF46 (TGT2503) 00° 19'S., 99° 38'E. Areas A, B, C.

**RACHYCENTRIDAE**

**Rachycentron canadum** (Linnaeus, 1766)

det. CSIRO. CSIRO CA1054 13° 18'S., 128° 21'E. Areas B, C.

**ECHENEIDAE**

**Echeneis naucrates** Linnaeus, 1758

det. J.B. Hutchins. WAM P.26220-006 16° 30'S., 122° 09'E. Areas A, B, C.

**Remora remora** (Linnaeus, 1758)

det. TGT. NTM S.10730-003 (TGT1501) 08° 57'S., 116° 26'E. Area B. Drawing of preserved specimen.

**CARANGIDAE**

**Alectis ciliaris** (Bloch, 1787)

det. TGT. LPPL JIF192 (TGT2360) 01° 59'S., 99° 26'E. Areas A, B, C.

**Scyris indica** Rüppell, 1830

det. TGT. Specimen lost (no field number) (TGT1191) 08° 47'S., 118° 48'E. Areas A, B, C.

**Alepes djedaba** (Fabricius, 1775)

det. W. Smith-Vaniz. LPPL JIF193 (TGT1764) 08° 34'S., 116° 47'E. Areas A, B.

**Alepes melanoptera** (Swainson, 1839)

det. W. Smith-Vaniz. ANSP 152028 (TGT2496) 00° 19'S., 99° 38'E. Area A.

**Alepes apercna** Grant, 1987

det. S. Kimura on photo. LPPL JIF217 (TGT1167) 08° 28'S., 119° 08'E. Area B.

**Atule mate** (Cuvier, 1833)

det. W. Smith-Vaniz. ANSP 152029 (TGT2433) 00° 51'N., 97° 58'E. Areas A, B, C.

**Flavocarax bajad** (Fabricius, 1775)

det. W. Smith-Vaniz. ANSP 152114 (TGT3002) 08° 43'S., 115° 16'E. Area B.

**Turrum coeruleopinnatum** (Rüppell, 1830)

det. W. Smith-Vaniz. LPPL JIF173 (TGT2396) 00° 35'N., 97° 55'E. Area A.

**Platycarax chrysophrys** (Cuvier, 1833)

det. TGT. LPPL JIF174 (TGT2245) 06° 25'S., 105° 34'E. Areas A, B, C.

**Carangichthys dinema** (Bleeker, 1851)

det. TGT. Specimen lost (no field number) 00° 14'S., 99° 34'E. Areas A, B.

**Kaiwarinus equula** (Temminck & Schlegel, 1844)

det. J.B. Hutchins. WAMP P.26182-010 21° 25'S., 114° 18'E. Area C.

**Ferdauia ferdau** (Fabricius, 1775)

det. W. Smith-Vaniz. LPPL JIF175 (TGT3041) 08° 35'S., 117° 59'E. Area B.

**Tururum fulvoguttatum** (Forsskål, 1775)

det. TGT. Specimen lost (TGT1158) 08° 28'S., 119° 08'E. Areas A, B, C.

**Tururum gymnostethus** (Cuvier, 1833)

det. J. Gunn. Specimen lost (no field number). Area C.

**Atropus hedlandensis** (Whitley, 1934)

det. W. Smith-Vaniz. LPPL JIF176 (TGT2243) 06° 25'S., 105° 34'E. Areas A, B, C.

**Carangichthys humerosus** (McCulloch, 1915)

det. J. Gunn. CSIRO CA1058 15° 31'S., 124° 02'E. Area C.

**Platycaranx malabaricus** (Bloch & Schneider, 1801)

det. W. Smith-Vaniz. LPPL JIF177 (TGT2236) 06° 25'S., 105° 34'E. Areas A, B.

**Ferdauia orthogrammus** (Jordan & Gilbert, 1882)

det. W. Smith-Vaniz. LPPL JIF204 (TGT3301) 10° 55'S., 133° 43'E. Areas B, C.

**Craterognathus plagiotaenia** (Bleeker, 1857)

det. TGT. LPPL JIF178 (TGT2397) 00° 35'N., 97° 58'E. Area A.

**Platycaranx talamparoides** (Bleeker, 1852)

det. TGT. LPPL JIF179 (TGT2237) 06° 25'S., 105° 34'E. Areas A, B, C.

**Alepes kleinii** (Bloch, 1793)

det. TGT. LPPL JIF216 (TGT2120) 08° 46'S., 115° 10'E. Areas A, B, C.

**Caranx bucculentus** Alleyne & Macleay, 1877

det. J. Gunn. CSIRO CA1061 13° 18'S., 128° 21'E. Area C.

**Caranx ignobilis** (Forsskål, 1775)

det. TGT. LPPL JIF180 (TGT3136) 08° 37'S., 118° 02'E. Areas A, B, C.

**Caranx lugubris** (Poey, 1860)

det. J. Gunn. Specimen lost (no field number). Area C. Est. 400 mm SL when caught.

**Caranx melampygus** Cuvier, 1833

det. W. Smith-Vaniz. LPPL JIF181 (TGT2395) 00° 35'N., 97° 55'E. Areas A, B, C.

**Pantolabus radiatus** (Macleay, 1881)

det. J. Gunn. Specimen lost (no field number) Conspecific Survey material determined by J. Gunn: CSIRO CA1062 from 11° 04'S., 130° 37'E. Area C.

**Caranx heberi** (Bennett, 1830)

det. W. Smith-Vaniz. LPPL JIF182 (TGT1040) 08° 46'S., 115° 10'E. Areas A, B.

**Caranx sexfasciatus** Ouoy & Gaimard, 1825

det. J. Gunn. Specimen lost (no field number). Areas A, B, C.

**Caranx tille** Cuvier, 1833

det. TGT. LPPL JIF183 (TGT2244) 01° 59'S., 99° 26'E. Areas A, B, C.

**Decapterus kurroides** Bleeker, 1855

det. W. Smith-Vaniz. ANSP 152025 (TGT2589) 08° 33'S., 114° 31'E. Areas A, C.

**Decapterus macarellus** Cuvier, 1833

det. W. Smith-Vaniz. ANSP 152023 (TGT2270) 06° 07'S., 104° 39'E. Areas A, B, C.

**Decapterus macrosoma** Bleeker, 1851

det. W. Smith-Vaniz. ANSP 152027 (TGT2272) 06° 07'S., 104° 39'E. Areas A, C.

**Decapterus russelli** (Rüppell, 1830)

det. W. Smith-Vaniz. ANSP 152030 (TGT2271) 06° 07'S., 104° 39'E. Areas A, C.

**Elagatis bipinnulata** (Ouoy & Gaimard, 1825)

det. J. Gunn. CSIRO CA2472 11° 01'S., 141° 36'E. Areas A, B, C.

**Gnathanodon speciosus** (Forsskål, 1775)

det. TGT. LPPL JIF184 (TGT3109) 08° 57'S., 116° 28'E. Areas A, B, C.

**Megalaspis cordyla** (Linnaeus, 1758)

det. TGT. LPPL JIF185 (TGT2246) 06° 25'S., 105° 34'E. Areas A, B, C.

**Parastromateus niger** (Bloch, 1795)

det. TGT. LPPL JIF48 (TGT2221) 06° 13'S., 105° 44'E. Areas A, C.

**Scomberoides commersonnianus** Lacepède, 1801

det. TGT. Specimen lost (no field number) 03° 14'S., 101° 25'E. Areas A, C.

**Scomberoides tala** (Cuvier, 1832)

det. TGT. LPPL JIF186 (TGT1181) 08° 47'S., 118° 48'E. Areas A, B, C.

**Scomberoides tol** (Cuvier, 1832)

det. TGT & PK. LPPL JIF218 (TGT1260) 08° 46'S., 115° 10'E. Areas A, B, C.

**Selar boops** (Cuvier, 1933)

No figure voucher (was 180 mm SL when caught). Photo supplied by John Marek. Conspecific material from Survey determined by PK & TGT (e.g. LPPL JIF219 (TGT1831) from 08° 58'S., 116° 13'E). Areas A, B, C.

**Selar crumenophthalmus** (Bloch, 1793)

det. TGT. LPPL JIF187 (TGT2612) 08° 42'S., 115° 05'E. Areas A, B, C.

**Selaroides leptolepis** (Cuvier, 1833)

det. W. Smith-Vaniz. ANSP 152026 (TGT2426) 00° 51'N., 97° 58'E. Areas A, B, C.

**Seriola dumerili** (Risso, 1810)

det. W. Smith-Vaniz & TGT. LPPL JIF188 (TGT3139) 08° 37'S., 118° 02'E. Areas A, C.

**Seriola rivoliana** Valenciennes, 1833

det. J. Gunn. CSIRO CA2467 19° 01'S., 117° 58'E. Areas B, C.

**Seriolina nigrofasciata** (Rüppell, 1829)

det. TGT. LPPL JIF189 (TGT2443) 00° 20'N., 98° 33'E. Areas A, B, C.

**Atropus aurochs** (Ogilby, 1915)

det. J. Gunn. Specimen lost. 13°18'S., 128° 21'E. Conspecific Survey material determined by J. Gunn: CSIRO CA2497 from 11° 01'S., 132° 01'E. Area C.

**Atropus mentalis** (Cuvier, 1833)

det. TGT. LPPL JIF190 (TGT1372) 08° 46'S., 115° 02'E. Areas A, B, C.

**Uraspis uraspis** (Günther, 1860)

det. TGT. LPPL JIF191 (TGT2436) 00° 20'N., 98° 33'E. Areas A, C.

**MENIDAE****Mene maculata** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF49 (TGT2223) 06° 13'S., 105° 44'E. Areas A, B, C.

**LEIOGNATHIDAE****Gazza rhombea** Kimura, Yamashita & Iwatsuki, 2000

det. S. Kimura. NTM S.11040-001 (TGT2504) 00° 19'S., 99° 38'E. Areas A, B.

**Gazza minuta** (Bloch, 1795)

det. J. Seigel. NTM S.11031-003 (TGT2615) 08° 42'S., 115° 05'E. Areas A, B, C.

**Photopectoralis aureus** (Abe & Haneda, 1972)

det. S. Kimura. NTM S.11000-004 (TGT2381) 01° 20'S., 98° 35'E. Area A.

**Equulites klunzingeri** (Steindachner, 1898)

det. S. Kimura. NTM S.10750-003 (TGT1443) 08° 56'S., 116° 24'E. Area B.

**Photopectoralis bindus** (Valenciennes, 1835)

det. J. Seigel. NTM S.10733-042 (TGT2108) 08° 46'S., 115° 10'E. Areas A, B, C.

**Nuchequula glenysae** Kimura, Kimura & Ikejima, 2008

det. S. Kimura. Specimen lost. Other material determined by CSIRO, e.g. CSIRO B.2179 (Paratype) from 14° 20'S., 136° 10'E. Area C.

**Nuchequula gerreoides** (Bleeker, 1851)

det. G. Jones. BMNH 1984.1.1.67 (TGT (PJPW) 735) 08° 38'S., 114° 18'E. Areas A, B, C. We found that in Australian waters *N. gerreoides* lacks the typical golden-yellow blotch on the breast which is so characteristic of the material obtained in Indonesia.

**Equulites elongatus** (Günther, 1874)

det. J. Seigel. NTM S. 10824-007 (TGT2378) 01° 59'S., 99° 26'E. Areas A, C.

**Leiognathus equula** (Forsskål, 1775)

det. TGT. NTM S.11003-003 (TGT2238) 06° 25'S., 105° 34'E. Areas A, B, C. *L. equula* is the largest of the leiognathids and is often caught at sizes 15-20 cm.

**Aurigequula fasciata** (Lacepède, 1803)

det. J. Seigel. NTM S.11003-002 (TGT2234) 06° 25'S., 105° 34'E. Areas A, B, C.

**Equulites sp. cf leuciscus** Günther, 1860

det. S. Kimura. NTM S.11041-001 (TGT2350) 01° 34'S., 98° 44'E. Areas A, B, C. This is an adult, in which the second dorsal fin spine is more elongate.

**Photolateralis moretoniensis** (Ogilby, 1912)

No figure voucher. Our Survey material determined by G. Jones (e.g. CSIRO CA440 from 16° 09'S., 122° 33'E.). Area C.

**Eubleekeria rapsoni** (Munro, 1964)

det. J. Seigel. NTM S.10733-043 (TGT2107 08° 46'S., 115° 10'E. Areas A, B.

**Aurigequula longispinis** (Valenciennes, 1835)

det. TGT. NTM S.11007-004 (TGT2437) 00° 20'N., 98° 33'E. Areas A, B, C.

**Eubleekeria jonesi** (James, 1971)

det. S. Kimura. NTM S.11007-003 (TGT2418) 00° 51 'N., 97° 58'E. Areas A, B, C.

**Photolateralis stercorarius** (Evermann & Seale, 1907)

det. J. Seigel. NTM S.10735-007 (TGT1402) 08° 46'S., 115° 02'E. Area A.

**Deveximentum indicium** (Monkolprasit, 1973)

det. J. Seigel. LPPL JIF215 (TGT3306) 10° 55'S., 122° 43'E. Conspecific material TGT3306A, same data, LACM 43591-1. Area B.

**Deveximentum insidiator** (Bloch, 1787)

det. J. Seigel. NTM S.11005-004 (TGT2208) 05° 20'S., 109° 10'E. Areas A, B, C.

**Deveximentum megalolepis** (Mochizuki & Hayashi, 1989)

det. S. Kimura. NTM S.11005-003 (TGT2209) 05° 20'S., 109° 10'E. Areas A, B, C.

**BRAMIDAE****Brama dussumieri** Cuvier, 1831

det. PK. NTM S.11119-001 (no field number) 08° 36'S., 113° 53'E. Area A. Drawing of preserved specimen.

**Taractes rubescens** (Jordan & Evermann, 1887)

det. PK & TGT. LPPL JIF50 (TGT2125) 10° 30'S., 117° 45'E. Area B.

**SYMPHYSANODONTIDAE****Symphysanodon maunaloae** Anderson, 1970

det. W.D. Anderson. GMBL 81-158 (TGT1721) (A. Female) 08° 58'S., 116° 34'E. (B. Male) RUSI 20017 (TGT1713A) 08° 58'S., 116° 34'E. Area B.

**Symphysanodon typus** Bleeker, 1877

No figure voucher. Photo supplied by W.D. Anderson who also determined our specimen (GMBL 81-162 (TGT1461)) from 08° 58'S., 116° 05'E.). Area B.

**EMMELICHTHYIDAE****Erythrocles schlegelii** (Richardson, 1846)

det. PK. BMNH 1984.1.1.68 (TGT (PJPW) 846) 08° 33'S., 114° 31'E. Area A. Drawing of preserved specimen.

**LUTJANIDAE****Aphareus rutilans** Cuvier, 1830

det. W.D. Anderson. GMBL 81-163 (TGT3259) 09° 01'S., 116° 18'E. Area B.

**Aprion virescens** Valenciennes, 1830

det. TGT. LPPL JIF51 (TGT2257) 05° 13'S., 104° 38'45"E. Areas A, B.

**Etelis carbunculus** Cuvier, 1828

det. J.B. Hutchins. WAM P.26288-004 16° 21'S., 120° 51'E. Areas B, C.

**Etelis radiosus** Anderson, 1981

No figure voucher. Photo supplied by W.D. Anderson who determined our specimen (BMNH 1981.10.30.1 (TGT (PJPW) 827) from 08° 43'S., 114° 15'E. Area A.

**Lipocheilus carnolabrum** (Chan, 1970)

No figure voucher. Our material determined by J.B. Hutchins (WAM P.26288-002 from 16° 21'S., 120° 51'E.) and PK (CSIRO CA3546 from 18° 41'S., 117° 54'E.). Area C.

**Lutjanus argentimaculatus** (Forsskål, 1775)

det. TGT. LPPL JIF52 (TGT2299) 03° 24'S., 100° 33'E. Areas A, B, C.

**Lutjanus bengalensis** (Bloch, 1790)

det. G.R. Allen on photo. BMNH 1984.1.1.71 (TGT (PJPW) 311) 00° 50'S., 98° 32'E. Areas A, B.

**Lutjanus bitaeniatus** (Valenciennes, 1830)

det. G.R. Allen on photo. BMNH 1984.1.1.72 (TGT (PJPW) 398) 05° 34'S., 102° 19'E. Areas A, B, C.

**Lutjanus bohar** (Fabricius, 1775)

det. TGT. LPPL JIF53 (TGT2298) 03° 24'S., 100° 33'E. Areas A, B, C.

**Lutjanus bouton** (Lacepède, 1802)

det. J. Marek on photo. Specimen lost. Catch coordinates lost. Area A.

**Lutjanus carponotatus** (Richardson, 1842)

det. J.B. Hutchins. WAM P.26252-003 19° 03'S., 120° 23'E. Area C.

**Lutjanus decussatus** (Cuvier, 1828)

det. TGT. NTM S.11017-001 (TGT3024) 08° 46'S., 115° 10'E. Areas A, B.

**Lutjanus erythropterus** Bloch, 1790

det. TGT. LPPL JIF68 (TGT2258) 06° 13'S., 104° 38'45"E. Areas A, B, C.

**Lutjanus fulviflamma** (Forsskål 1775)

det. TGT. LPPL JIF69 (TGT1060) 08° 46'S., 115° 10'E. Area B.

**Lutjanus fulvus** (Forster, 1801)

det. G.R. Allen on photo. LPPL JIF214 (TGT1015) 08° 43'S., 115° 16'E. Area B. Our specimen has a poorly-developed preopercular notch and the suborbital is rather narrow.

**Lutjanus gibbus** (Forsskål, 1775)

det. CSIRO. Specimen lost (no field number). Areas B, C.

**Lutjanus johnii** (Bloch, 1792)

det. TGT. Specimen lost (no field number). Areas A, B, C.

**Lutjanus lemniscatus** (Valenciennes, 1828)

det. TGT. LPPL JIF54 (TGT3186) 08° 58'S., 116° 31'E. Areas A, B, C.

**Lutjanus lunulatus** (Park, 1797)

det. TGT. BPBM 29338 (TGT2398) 00° 35'N., 97° 55'E. Area A.

**Lutjanus lutjanus** Bloch, 1790

det. TGT. LPPL JIF55 (TGT2359) 01° 59'S., 99° 26'E. Areas A, B, C.

**Lutjanus xanthopinnis** Iwatsuki, Tanaka & Allen, 2015

det. TGT based on authors. LPPL JIF56 (TGT915) 08° 30'S., 116° 42'E. Areas A, B.

**Lutjanus malabaricus** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF57 (TGT2385) 01° 20'S., 98° 35'E. Areas A, B, C. This species is sometimes called *L. sanguineus* (Cuvier) but that species is confined to the Red Sea and western Indian Ocean (Allen & Talbot, 1985).

**Lutjanus monostigma** (Cuvier, 1828)

det. TGT. LPPL JIF58 (TGT2405) 00° 35'N., 97° 55'E. Areas A, B.

**Lutjanus quinquelineatus** (Bloch, 1790)

det. TGT. BPBM 29339 (TGT2404) 00° 35'N., 97° 55'E. Areas A, B, C.

**Lutjanus rivulatus** (Cuvier, 1828)

det. TGT. LPPL JIF60 (TGT2344) 01° 59'S., 99° 26'E. Areas A, C.

**Lutjanus russellii** (Bleeker, 1849)

det. G.R. Allen on photo. LPPL JIF61 (TGT2400) 00° 35'N., 97° 55'E. Areas B, C.

**Lutjanus sebae** (Cuvier, 1816)

det. TGT. LPPL JIF62 (TGT2297) 03° 24'S., 100° 33'E. Areas A, B, C.

**Lutjanus timoriensis** (Ouoy & Gaimard, 1824)

det. TGT. LPPL JIF63 (TGT2368) 01° 59'S., 99° 26'E. Areas A, B.

**Lutjanus vitta** (Ouoy & Gaimard, 1824)

det. TGT. LPPL JIF64 (TGT2446) 00° 21'N., 98° 38'E. Areas A, B, C.

**Macolor niger** (Forsskål, 1775)

No figure voucher. Photo of a New Guinea specimen supplied by PK (photo 3). TGT determined our material (LPPL JIF59 (TGT1354) from 08° 31'S., 115° 32'E.). Area B.

**Paracaesio kusakarii** Abe, 1960

det. W. D. Anderson. GMBL 81-163 (TGT3258) 09° 01 'S., 116° 18'E. Area B.

**Paracaesio xanthurus** (Bleeker, 1869)

det. W.D. Anderson, GMBL 83-33 (TGT2377) 01° 59'S., 99° 26'E. Areas A, B.

**Pinjalo pinjalo** (Bleeker, 1850)

det. PK. LPPL JIF65 (TGT1127) 08° 28'S., 119° 08'E. Areas A, B.

**Pinjalo lewisi** Randall, Allen & Anderson, 1987

det. PK. NTM S.11116-002 (TGT1922) 08° 46'S., 115° 02'E. Area B. Drawing of the preserved specimen. Paratype.

**Pristipomoides filamentosus** (Valenciennes, 1830)

det. W.D. Anderson. GMBL 81-167 (TGT3264) 09° 01'S., 116° 18'E. Area B.



**Pristipomoides multidens** (Day, 1871)

det. TGT. LPPL JIF66 (TGT2600) 08° 42'S., 115° 05'E. Areas A, B, C.

**\*Pristipomoides sieboldii** (Bleeker, 1855)

No figure voucher. Our juvenile material determined by W.D. Anderson (GMBL 81-171). Area B. *Diagnosis*: DX, 11; A III, 8. L. lat. 71-74; total GR 28-32; diamond shaped patch of teeth on vomer. Violet body and fins, rows of blue spots on back and orange margin to dorsal and caudal fins.

**Pristipomoides typus** Bleeker, 1852

det. TGT. LPPL JIF205 (TGT2333) 02° 42'S., 99° 56'E. Areas A, B, C.

**Symphorichthys spilurus** (Günther, 1874)

det. TGT. LPPL JIF70 (TGT3255) 09° 01'S., 116° 18'E. Area B.

**Symphorus nematophorus** (Bleeker, 1860)

det. TGT. LPPL JIF71 (TGT1484) 08° 57'S., 116° 26'E. Areas B, C.

**CAESIONIDAE****Caesio caerulea** Lacepède, 1801

det. K. Carpenter. BPBM 29366 (TGT1573) 08° 06'S., 115° 16'E. Area A.

**Caesio cuning** (Bloch, 1791)

det. K. Carpenter. BPBM 29378 (TGT2172) 08° 46'S., 115° 10'E. Areas A, B.

**Caesio lunaris** Cuvier, 1830

det. K. Carpenter. BPBM 29334 (PAN 22) 08° 31'S., 115° 32'E. Area B.

**Caesio teres** Seale, 1906

det. K. Carpenter. BPBM 29367 (TGT1581) 08° 06'S., 115° 16'E. Area B.

**Caesio xanthonota** Bleeker, 1853

det. K. Carpenter. BPBM 29375 (TGT2401) 00° 35'N., 97° 55'E. Areas A, B.

**Dipterygonotus balteatus** (Valenciennes, 1830)

det. K. Carpenter. BPBM 29376 (TGT2283) 06° 07'S., 104° 39'E. Areas A, B, C.

**Gymnoaesio gymnoptera** (Bleeker, 1856)

det. K. Carpenter. BPBM 293n (TGT2293) 03° 34'S., 100° 41'E. Areas A, B.

**Pterocaesio chrysozona** (Cuvier, 1830)

det. J.B. Hutchins. WAM P.26191-003. 20° 09'S., 116° 31'E. Areas A, C.

**Pterocaesio digramma** (Bleeker, 1864)

det. K. Carpenter. BPBM 29341 (TGT962) 08° 30'S., 116° 42'E. Areas B, C.

**Pterocaesio pisang** (Bleeker, 1853)

det. G.R. Allen. BPBM 29342 (TGT939) 08° 30'S., 116° 42'E. Areas A, B.

**Pterocaesio tessellata** Carpenter, 1987

det. K. Carpenter. BPBM 29368 (TGT1582) 08° 06'S., 115° 16'E. Areas A, B.

**NEMIPTERIDAE****Nemipterus balinensis** (Bleeker, 1858)

det. B.C. Russell. NTM S.10824-002 (TGT2362) 01° 59'S., 99° 26'E. Areas A, B, C.

**Nemipterus bathybius** Snyder, 1911

det. B.C. Russell. NTM S.10999-001 (TGT2459) 00° 25'S., 98° 40'E. Areas A, B, C.

**Nemipterus furcosus** (Valenciennes, 1830)

det. B.C. Russell. NTM S.11018-001 (TGT2276) 05° 07'S., 104° 39'E. Areas A, B, C.

**Nemipterus hexodon** (Quoy & Gaimard, 1824)

det. B.C. Russell. NTM S.10754-001 (TGT1188) 08° 47'S., 118° 48'E. Areas B, C.

**Nemipterus isacanthus** (Bleeker, 1873)

det. B.C. Russell on photo. Specimen lost. 13° 22'S., 124° 48'E. (Conspecific material from near Survey area determined by CSIRO: CSIRO CA3736 from 10° 19'S., 133° 05'E.) Area C.

**Nemipterus japonicus** (Bloch, 1791)

det. B.C. Russell. NTM S.11003-001 (TGT2240) 06° 25'S., 105° 34'E. Areas B, C.

**Nemipterus marginatus** (Valenciennes, 1830)

det. B.C. Russell. NTM S.11005-001 (TGT2205) 05° 20'S., 109° 10'E. Areas A, B, C.

**Nemipterus zysron** (Bleeker, 1856)

det. B.C. Russell. NTM S.11001-001 (TGT2551) 03° 07'S., 101° 20'E. Areas B, C.

**Nemipterus mesoprion** (Bleeker, 1853)

det. B.C. Russell. NTM S.11007-001 (TGT2435) 00° 51'N., 97° 58'E. Areas A, B.

**Nemipterus nematophorus** (Bleeker, 1854)

No figure voucher. Photo of New Guinea specimen supplied by PK. Specimens from Area A determined by TGT & PK (e.g. NTM S.11016-002 (TGT2486) from 00° 04'S., 99° 01'E.) (photo: PK 6).

**Nemipterus nematopus** (Bleeker, 1851)

det. B.C. Russell. NTM S.10731-005 (TGT1129) 08° 28'S., 119° 08'E. Areas B, C.

**Nemipterus peronii** (Valenciennes, 1830)

det. B.C. Russell. NTM S.10731-003 (TGT1131) 08° 28'S., 119° 08'E. Areas A, B, C.

**Nemipterus tambuloides** (Bleeker, 1853)

det. B.C. Russell. NTM S.11000-001 (TGT2379) 01° 20'S., 98° 35'E. Areas A, B, C.

**Nemipterus sugillatus** Russell & Ho, 2017

det. B.C. Russell. NTM S.11004-001 (TGT2573) 07° 59'S., 108° 58'E. Areas A, C. Paratype.

**Nemipterus gracilis** (Bleeker, 1873)

det. B.C. Russell. NTM S.11000-002 (TGT2380) 01° 20'S., 98° 35'E. Conspecific material determined by B. Russell at NTM as S.11006-001 (TGT1841) 08° 56'S., 116° 24'E. Areas A, B, C.

**Nemipterus balinensoides** (Popta, 1918)

det. B.C. Russell. NTM S.11001-002 (TGT2560) 03° 07'S., 101° 20'E. Conspecific material at NTM S.10733-006 (TGT1013) 08° 43'S., 115° 16'E. Areas A, B.

**Nemipterus thosaporni** Russell 1991

No figure voucher. Photo supplied by B.C. Russell who identified our specimen (NTM S.10744-005 (TGT928) from 08° 30'S., 116° 42'E.). Area B. Paratype.

**Parascolopsis eriomma** (Jordan & Richardson, 1909)

det. B.C. Russell. NTM S.10995-001 (TGT2592) 08° 33'S., 114° 31'E. Areas A, C.

**Parascolopsis inermis** (Temminck & Schlegel, 1843)

det. B.C. Russell. NTM S.10752-005 (TGT3197) 09° 01'S., 116° 18'E. Area B.

**Parascolopsis tosensis** (Kamohara, 1938)

det. B.C. Russell. NTM S.10760-003 (TGT1732) 08° 58'S., 116° 34'E. Areas A, B.

**Parascolopsis tanyactis** Russell, 1986

det. B.C. Russell. NTM S.10739-002 (TGT1782) 08° 57'S., 116° 08'E. Areas A, B, C. Paratype.

**Parascolopsis qantasi** Russell & Gloerfelt-Tarp, 1984

det. B.C. Russell. NTM S.10997-001 (TGT2323) 03° 24'S., 100° 33'E. Areas A, C. Holotype.

**Pentapodus caninus** (Cuvier, 1830)

det. B.C. Russell. NTM S.10660-001 (no field number) 08° 08'S., 114° 32'E. Area B.

**Pentapodus emeryii** (Richardson, 1843)

det. TGT & PK. NTM S.10731-004 (TGT1136) 08° 28'S., 119° 08'E. Area B. Juveniles lack the filamentous extensions to the upper and lower caudal lobes typical of adults (e.g. NTM S.10744-006 (TGT977)).

**Pentapodus nagasakiensis** (Tanaka, 1915)

det. CSIRO. AMS 1.22831-033 20° 00'S., 117° 16'E. Areas B, C.

**Pentapodus porosus** (Valenciennes, 1830)

det. CSIRO. Specimen lost (no field number) (Conspecific material from Survey determined by B.C. Russell: CSIRO CA2523 from 20° 14'S., 115° 52'E.). Area C.

**Pentapodus setosus** (Valenciennes, 1830)

det. B.C. Russell. NTM S.10749-004 (TGT1808) 08° 48'S., 116° 43'E. Areas A, B.

**Pentapodus trivittatus** (Bloch, 1791)

det. B.C. Russell. NTM S.10733-020 (TGT1275) 08° 46'S., 115° 10'E. Area B.

**Pentapodus vitta** Ouoy & Gaimard, 1824

det PK. CSIRO CA2515 20° 39'S., 116° 45'E. Area C.

**Scolopsis affinis** Peters, 1877

det. B.C. Russell. NTM S.10763-002 (TGT1693) 08° 32'S., 115° 55'E. Area B.

**Scolopsis aurata** (Park, 1797)

det. B.C. Russell. NTM S.10771-001 (TGT2408) 00° 35'N., 97° 55'E. Area A.

**Scolopsis bilineata** (Bloch, 1793)

No figure voucher. B.C. Russell supplied the photo and identified our material (e.g. NTM S.10732-001 (PANG) 08° 31'S., 115° 32'E.). Area B.

**Scolopsis ciliata** (Lacepède, 1802)

det. B.C. Russell. NTM S.10733-005 (TGT1042) 08° 46'S., 115° 10'E. Area B.

**Scolopsis lineata** Ouoy & Gaimard, 1824

det. B.C. Russell. NTM S.11002-001 (TGT1541) 08° 22'S., 117° 15'E. Area B.

**Scolopsis margaritifera** (Cuvier, 1830)

det. B.C. Russell. NTM S.10747-006 (TGT3327) 10° 18'S., 120° 22'E. Area B.

**Scolopsis monogramma** (Cuvier, 1830)

No figure voucher. Photo of New Guinea specimen supplied by PK (photo 7). Russell determined our material. Areas A, B, C. This species has been called *S. regina* Whitley in Australian waters.

**Scolopsis taenioptera** (Cuvier, 1830)

det. B.C. Russell. NTM S.11014-001 (TGT2219) 06° 13'S., 105° 44'E. Areas A, B, C.

**Scolopsis trilineata** Kner, 1868

det. B.C. Russell. NTM S.10733-007 (TGT1069) 08° 46'S., 115° 10'E. Area B.

**Scolopsis vosmeri** (Bloch, 1792)

det. B.C. Russell. NTM S.10733-011 (TGT1011) 08° 43'S., 115° 16'E. Areas A, B, C.

**GERREIDAE****Gerres erythrourus** (Bloch, 1791)

det. D.J. Woodland. NTM S.10733-016 (TGT1068) 08° 46'S., 115° 10'E. Area B. (Note: Chakraborty et al (2006) suggest that two species are included under this name.)

**Gerres longirostris** (Lacepède, 1801)

det. D.J. Woodland on photo. Specimen lost (no field number). Area A.

**Gerres filamentosus** Cuvier, 1829

det. D.J. Woodland. NTM S.10733-017 (TGT1072) 08° 46'S., 115° 10'E. Areas A, B, C.

**Gerres oyena** (Fabricius, 1775)

det. PK. NTM S.11007-002 (TGT2429) 00° 51'N., 97° 58'E. (TGT1067) 08° 46'S., 115° 10'E. Conspecific material at NTM S.10733-015. Areas B, C.

**Pentaprion longimanus** (Cantor, 1849)

det. D.J. Woodland on photo. BMNH 1984.1.1:73 (TGT (PJPW) 783) 08° 37'S., 115° 59'E. Areas A, B, C.

**HAEMULIDAE****Diagramma pictum** (Thunberg, 1792)

det. R.J. McKay. Specimen lost. 13° 55'S., 124° 33'E. (Conspecific material determined by CSIRO is CSIRO CA1649 from 19° 34'S., 120° 03'E.). Areas A?, B?, C.

**Diagramma punctatum** Cuvier, 1830

det. TGT. NTM S. 11037-001 (TGT2444) 00° 20'N., 98° 33'E. Conspecific material from the Survey determined by R.J. McKay. Area A. (Note: lower caudal lobe damaged on voucher).

**Plectorhinchus chrysotaenia** (Bleeker, 1855)

det. TGT. BPBM 29335 (TGT1351) 08° 31'S., 115° 32'E. Area B.

**Plectorhinchus chaetodonoides** Lacepède, 1801

det. R.J. McKay on photo. Specimen lost (no field number). Area A.

**Plectorhinchus chubbi** (Regan, 1919)

det. R.J. McKay. LPPL JIF74 (TGT900) 08° 43'S., 115° 16'E. Area B.

**Plectorhinchus flavomaculatus** (Cuvier, 1830)

det. R.J. McKay. Specimen lost (TGT1368) 08° 46'S., 115° 02'E. Areas A, B, C.

**Plectorhinchus gibbosus** (Lacepède, 1802)

det. J.B. Hutchins. WAM P.26218-004 18° 10'S., 121° 17'E. Areas A, B, C.

**Plectorhinchus lineatus** (Linnaeus, 1758)

det. TGT. LPPL JIF75 (TGT922) 08° 30'S., 116° 42'E. Area B.

**Plectorhinchus lessonii** (Cuvier, 1830)

det. TGT. BPBM 29350 (TGT2123) 08° 46'S., 115° 10'E. Area B.

**Plectorhinchus albovittatus** (Rüppell, 1838)

det. R.J. McKay. BPBM 29349 (TGT1239) 08° 49'S., 115° 15'E. Area B. (Note: voucher is a juvenile specimen)

**Plectorhinchus vittatus** (Linnaeus, 1758)

det. TGT. BPBM 29336 (TGT1357) 08° 31'S., 115° 32'E. Area B.

**Diagramma melanacrum** Johnson & Randall, 2001

det. R.J. McKay. QM I. 20291 (TGT3251) 08° 24'S., 116° 01'E. Area B. Holotype.

**Plectorhinchus polytaenia** (Bleeker, 1853)

det. TGT. LPPL JIF72 (TGT3239) 09° 01'S., 116° 18'E. Area B.

**Pomadasyus argenteus** (Forsskål, 1775)

det. TGT. BPBM 29343 (TGT929) 08° 30'S., 116° 42'E. Areas A, B, C. The lower GR count distinguishes this species from the similarly-coloured Western Indian Ocean species *P. multimaculatus* (Playfair) and *P. commersonnii* (Lacepède).

**Pomadasys argyreus** (Valenciennes, 1833)

det. PK. LPPL JIF73 (TGT2226) 06° 13'15"S., 105° 44'E. Areas A, B, C.

**Pomadasys furcatus** (Bloch & Schneider, 1801)

det. PK. BPBM 29348 (TGT3028) 08° 43'S., 115° 16'E. Area B.

**Pomadasys kaakan** (Cuvier, 1830)

det. TGT. NTM S.11014-002 (TGT2225) 06° 13'15"S., 105° 44'E. Areas A, B, C. Conspecific material determined by R.J. McKay.

**Pomadasys maculatus** (Bloch, 1793)

det. TGT. BPBM 29351 (TGT2239) 06° 25'S., 105° 34'E. Areas A, B, C.

**Pomadasys sp.**

det. R.J. McKay. BMNH 1984.1.1.78 (TGT (PJPW) 606) 08° 37'S., 115° 59'E. Area A. This is the '*P. fisheri*' of McKay.

**LETHRINIDAE****Gnathodentex aureolineatus** (Lacepède, 1802)

det. PK. NTM S.10771-003 (TGT2413) 00° 35'S., 97° 55'E. Area A.

**Gymnocranius elongatus** Senta, 1973

det. TGT. NTM S.11018-004 (TGT2285) 06° 07'S., 104° 39'E. Areas A, B, C.

**Gymnocranius griseus** (Temminck & Schlegel, 1843)

det. TGT. LPPL JIF195 (TGT2369) 01° 59'S., 99° 26'E. Areas A, B, C.

**Gymnocranius grandoculis** (Valenciennes, 1830)

det. TGT. LPPL JIF196 (TGT2332) 02° 42'S., 99° 56'E. Areas A, B, C.

**Gymnocranius sp.**

det. TGT. NTM S.10771-004 (TGT2403) 00° 35'S., 97° 55'E. Area A.

**Lethrinus nebulosus** (Forsskål, 1775)

det. CSIRO. Specimen lost. 19° 59'S., 117° 24'E. (Conspecific Survey material determined by CSIRO is CSIRO CA935 from 12° 37'S., 129° 48'E.). Area C.

**Lethrinus conchyliaius** (Smith, 1959)

det. M. Walker on photo. LPPL JIF197 (TGT1054) 08° 10'S., 114° 54'E. Areas A, B.

**Lethrinus microdon** Valenciennes, 1830

det. TGT. LPPL JIF198 (TGT2410) 00° 35'S., 97° 55'E. Conspecific material determined by M. Walker at WAMRL Leth Bali 6/83 (TGT2443) 00° 20'S., 98° 33'E. Areas A, B, C.

**Lethrinus laticaudis** Alleyne & Macleay, 1877

det. CSIRO. Specimen lost. 19° 59'S., 117° 24'E. Areas B, C.

**Lethrinus harak** (Fabricius, 1775)

det. M. Walker on photo. BMNH 1984.1.1.113 (no field number) 03° 35'S., 100° 38'E. Area A.

**Lethrinus erythropterus** Valenciennes, 1830

det. M. Walker on photo. Specimen lost (TGT930) 08° 30'S., 116° 42'E. Areas A, B.

**Lethrinus lentjan** (Lacepède, 1802)

det. M. Walker. WAMRL Leth Bali 6/83 (TGT2406) 00° 35'S., 97° 55'E. Areas A, C.

**Lethrinus atkinsoni** Seale, 1910

det. CSIRO. Specimen lost (no field number) Conspecific Survey material determined by M. Walker (e.g. TGT (PJPW) 386), BMNH uncat., from 01° 48'S., 99° 21'E.). Areas A, C.

**Lethrinus miniatus** (Forster, 1801)

det. CSIRO. CSIRO CA980. 20° 10'S., 115° 15'E. Area C.

**Lethrinus genivittatus** Valenciennes, 1830

det. CSIRO. Specimen lost. 19° 59'S., 117° 24'E. Areas A, B, C.

**Lethrinus ornatus** Valenciennes, 1830

det. TGT. LPPL JIF199 (TGT2399) 06° 25'S., 105° 34'E. Areas A, B.

**Lethrinus rubrioperculatus** Sato, 1978

det. M. Walker. WAMRL Leth Bali 10/83 (TGT2320) 03° 24'S., 100° 33'E. Areas A, B, C.

**Lethrinus semicinctus** Valenciennes, 1830

det. CSIRO. CSIRO CA948. 09° 52'S., 129° 12'E. Areas B, C.

**Lethrinus variegatus** Valenciennes, 1830

det. CSIRO. CSIRO CA968 20° 10'S., 115° 15'E. Areas B, C.

**Lethrinus sp.**

det. TGT. WAMRL Leth Bali 7/83 (TGT2411) 00° 35'S., 97° 55'. Areas A, B. This is the '*Maldive Emperor*' (refer Carpenter, 2001:3046). There is additional material (TGT2411 and TGT1053) at the NTM as S.10734-021.

**Monotaxis grandoculis** (Forsskål, 1775)

det. TGT. LPPL JIF200 (PAN 40) 08° 31'S., 115° 32'E. Areas A, B.

**Wattsia mossambica** (Smith, 1957)

det. PK on photo. Specimen lost (no field number). Area A.

**SPARIDAE****Argyrops bleekeri** Oshima, 1927

det. Y. Iwatsuki. LPPL JIF76 (TGT2572) 07° 59'S., 108° 58'E. Areas A, B, C.

**\*Argyrops notialis** Iwatsuki & Heemstra, 2018

No figure voucher. Our material from Western Australia (e.g. CSIRO CA1375) re-determined based on Iwatsuki & Heemstra, 2018. Additional material is AMS I.22830-014, from 175 km NW of Port Hedland. *Diagnosis*: D XI, 10; A III, 8; P 16; L. lat. 50-51; lower GR 15-17. First dorsal fin spine very small, 2<sup>nd</sup>-5<sup>th</sup> spines very elongate and flattened (juveniles), becoming shorter and reaching to 1<sup>st</sup> dorsal fin ray in adults, 2<sup>nd</sup> spine reaching further. Eye diameter less than suborbital depth; pupil diameter subequal to or less than preorbital length; rear margin of upper jaw reaches a vertical beyond anterior rim of pupil. Body pinkish red with faint reddish bars across back; fins reddish hyaline. Area C.

**Dentex spariformis** Ogilby, 1910

det. Y. Iwatsuki. NTM S.10752-008 (TGT3196) 09° 01'S., 116° 18'E. Areas A, B, C. Additional material is AMS I.22807-036, in part, 210 mm SL from 18° 32' S, 118° 17' E, determined by A. Hay & K. Graham.

**Evynnis tumifrons** (Temminck & Schlegel, 1843)

No figure voucher. Our material (e.g. BMNH 1984.1.1.74 (PJPW 170) from 08° 32'S., 114° 30'E.) determined based on Iwatsuki et al., 2007. Area A. *E. japonica* Tanaka is a synonym (Iwatsuki et al., 2007).

**Pagrus auratus** (Forster, in Bloch & Schneider, 1801)

det. TGT & PK. Specimen lost (no field number). Based on Taniguchi et al. (1986) and earlier deliberations, Paulin (1990) confirmed that *auratus* Forster is a senior synonym of *Pagrus major* (Temminck & Schlegel, 1843). This species has been recorded (as *P. auratus*) from Bali (Carpenter, 2001) and Dr Y. Iwatsuki has identified material collected north of Darwin (pers. comm., 2019). It is regrettable that this single specimen trawled off south Sumatra, was lost. Area A.

**SCIAENIDAE****Argyrosomus amoyensis** (Bleeker, 1863)

No figure voucher. Our material determined by E. Trewavas (BMNH 1984.1.1.75 (TGT (PJPW) 747) from 08° 45'S., 115° 05'E.). Area A.

**Atrobucca brevis** Sasaki & Kailola, 1988.

det. PK. CSIRO CA1422 15° 53'S., 124° 02'E. Area C.

**Atrobucca nibe** (Jordan & Thompson, 1911)

det. E. Trewavas. BMNH 1984.1.1.76 (TGT1440) 08° 56'S., 116° 24'E. Area B.

**Johnius (Johnieops) borneensis** (Bleeker, 1851)

det. PK. CSIRO CA2010 15° 32'S., 124° 02'E. Areas A, B, C.

**Johnius (Johnius) amblycephalus** (Bleeker, 1855)

det. PK. LPPL JIF77 (TGT (PJPW) 720) 08° 43'S., 115° 00'E. Areas A, B, C.

**\*Johnius (Johnius) belangerii** (Cuvier, 1830)

No figure voucher. E. Trewavas tentatively identified our 126 mm SL specimen as this species (BMNH 1984.1.1.77 (TGT (PJPW) 479) from 07° 49'S., 108° 54'E.). Area A. *Diagnosis*: D VIII-X, I, 26-30; GR. 2-5 + 5-10. Tr above 6-11. Swim bladder hammer-shaped with 11 to 13 pairs of swim bladder appendages; pores of snout 5 + 5. Snout abrupt and steeply curved, slightly projecting in front of upper jaw. Ctenoid scales on head and upper part of body Head 3-3.8 in SL; second anal spine 7.1-12.5 in HL; eye 3.7-4.8 in HL. Body dark grey-bronze over head and back, fins dark brown or black; young specimens with dark vertical bars on back.

**Johnius (Johnius) laevis** Sasaki & Kailola, 1991

det. PK. CSIRO B.1972 13° 25'S., 126° 19'E. Areas A, C.

**Johnius (Johnius) macropterus** (Bleeker, 1853)

det. PK. NTM S.10992-011 (TGT3081) 08° 57'S., 116° 28'E. Area B.

**Otolithes ruber** (Bloch & Schneider, 1801)

det. P. Whitehead. Specimen lost (no field number). Areas A, B.

**Nibea soldado** (Lacepède, 1802)

det. PK. NTM S.11030-001 (TGT2201) 06° 42'S., 109° 05'E. Area A.

**Pennahia macrocephalus** (Tang, 1937)

det. PK. NTM S.10992-008 (TGT3072) 08° 57'S., 116° 28'E. Areas A, B.

**Pennahia anea** (Bloch, 1793)

det. PK. NTM S.10733-012 (TGT2170) 08° 46'S., 115° 10'E. Areas A, B.

**Pennahia pawak** (Lin, 1940)

det. PK. NTM S.11029-001 (TGT2252) 06° 13'S., 105° 44'E. Area A.

**Protonibea diacanthus** (Lacepède, 1802)

det. J.B. Hutchins. WAM P.26484-001 20° 47'S., 116° 46'E. Areas B, C.

## MULLIDAE

### **Mulloidichthys flavolineatus** (Lacepède, 1801)

det. TGT & PK. LPPL JIF78 (TGT1580) 08° 06'S., 115° 16'E. Area B.

### **Parupeneus barberinoides** (Bleeker, 1852)

det. TGT. Specimen lost. (TGT974) 08° 30'S., 116° 42'E. Area B.

### **Parupeneus barberinus** (Lacepède, 1801)

det. TGT. LPPL JIF79 (TGT1097) 08° 46'S., 115° 10'E. Areas A, B.

### **Parupeneus crassilabris** (Valenciennes, 1831)

det. F. Uiblein. LPPL JIF80 (PAN34) 08° 31'S., 115° 32'E. Area B.

### **Parupeneus chrysopleuron** (Temminck & Schlegel, 1843)

det. CSIRO. AMS 1.21949-002 08° 53'S., 135° 15'E. Areas B, C.

### **Parupeneus cyclostomus** (Lacepède, 1801)

det. J. Randall. LPPL JIF81 (TGT3013) 08° 48'S., 116° 43'E. Areas A, B. This species is often misidentified because its colour changes with growth.

### **Parupeneus indicus** (Shaw, 1803)

det. TGT. LPPL JIF82 (TGT3272) 08° 46'S., 115° 10'E. Areas A, B, C.

### **Parupeneus macronemus** (Lacepède, 1801)

det. TGT. LPPL JIF83 (TGT2307) 03° 24'S., 100° 33'E. Areas A, B.

### **Parupeneus heptacantha** (Lacepède, 1802)

det. TGT & PK. LPPL JIF84 (TGT (PJPW) 610) 08° 25'S., 114° 25'E. Areas A, C.

### **Parupeneus pleurostigma** (Bennett, 1831)

det. F. Uiblein. LPPL JIF85 (TGT963) 08° 30'S., 116° 42'E. Area B.

### **Parupeneus rubescens** (Lacepède, 1801)

det. TGT & PK. LPPL JIF86 (TGT3320) 10° 18'S., 120° 22'E. Areas B, C.

### **Parupeneus janseni** (Bleeker, 1856)

det. PK. NTM S.11018-002 (TGT2277) 06° 07'S., 104° 39'E. Area A.

### **Parupeneus multifasciatus** (Quoy & Gaimard, 1825)

det. F. Uiblein on photo. Specimen lost. (TGT960) 08° 30'S., 116° 42'E. Area B. This species is very similar to *P. trifasciatus* (Lacepède) which ranges from southern Japan to western Indonesia, Seychelles to South Africa.

### **Upeneus australiae** Kim & Nakaya, 2002

det. PK based on Kim & Nakaya 2002. Specimen lost (no field number). (Conspecific material determined by CSIRO is CA3042 from 20° 07'S., 118° 02'E.). Area C.

### **Upeneus torres** Uiblein & Gledhill, 2014

det. F. Uiblein. NTM S.10995-003 (TGT2591) 08° 33'S., 114° 31'S. Areas A, B, C.

### **Upeneus moluccensis** (Bleeker, 1855)

det. TGT. LPPL JIF87 (TGT2432) 00° 51'N., 97° 58'E. Areas A, B, C.

### **Upeneus quadrilineatus** Cheng & Wang, 1963

det. TGT & PK. NTM S.10748-012 (TGT1017) 08° 43'S., 115° 16'E. Areas A, B.

### **Upeneus sulphureus** Cuvier, 1829

det. TGT. LPPL JIF88 (TGT2224) 06° 13'15"S., 105° 44'E. Areas A, B, C.

### **Upeneus sundaicus** Bleeker, 1855

det. CSIRO. CSIRO CA2036 12° 30'S., 130° 05'E. Area C.

### **Upeneus tragula** Richardson, 1846

det. F. Uiblein. LPPL JIF89 (TGT1061) 08° 46'S., 115° 10'E. Conspecific Survey material determined by PK. and CSIRO (e.g. CA2057 from 21° 00'S., 115° 40'E.). Areas A, B.

### **Upeneus vittatus** (Forsskål, 1775)

det. TGT. LPPL JIF90 (TGT2545) 03° 07'S., 101° 20'E. Areas A, B.

### **Upeneus guttatus** (Day, 1868)

det. F. Uiblein. NTM S.11033-001 (TGT2389) 01° 57'S., 99° 26'E. Areas A, C. Conspecific material is NTM S.11018-002. This species is often mistaken for *U. japonicus* (Houttuyn) which is distributed from east Malaysia to Philippines, South Korea, Peter the Great Bay and Japan.

### **Upeneus subvittatus** (Temminck & Schlegel 1843)

det. F. Uiblein. NTM S.11001-003 (TGT2546) 03° 07'S., 101° 20'E. Area A.

**PEMPHERIDAE**

**Parapriacanthus ransonneti** Steindachner, 1870

det. PK. NTM S.10996-002 (TGT2312) 03° 24'S., 100° 33'E. Areas A, B, C.

**Pempheris molucca** Cuvier, 1829

det. R. Jubb. NTM S.11089-001 (TGT (PJPW) 653) 08° 41'S., 114° 34'E. Area A.

**Pempheris vanicolensis** Cuvier, 1831

det. R. Jubb. NTM S.10732-005 (PAN5) 08° 31'S., 115° 32'E. Areas A, B.

**KYPHOSIDAE**

**Kyphosus cinerascens** (Forsskål, 1775)

det. TGT. LPPL JIF91 (PAN24) 08° 31'S., 115° 32'E. Area B.

**Kyphosus vaigiensis** (Quoy & Gaimard, 1825)

No figure voucher. Photo of a New Guinea specimen supplied by PK (PK1 ). TGT & PK determined our Survey material (e.g. PAN25 (LPPL JIF92) from 08° 31'S., 115° 32'E.). Areas A, B.

**DREPANEIDAE**

**Drepane longimana** (Bloch & Schneider, 1801)

det. TGT. NTM S. 11016-005 (TGT2461) 00° 04'S., 99° 01 'E. Areas A, B.

**Drepane punctata** (Linnaeus, 1758)

det. TGT. LPPL JIF93 (TGT2247) 06° 25'S., 105° 34'E. Areas A, B, C.

**EPHIPPIDAE**

**Ephippus orbis** (Bloch, 1787)

det. TGT. NTM S. 11001-004 (TGT2552) 03° 07'S., 101° 20'E. Areas A, B.

**Platax batavianus** Cuvier, 1831

det. TGT. LPPL JIF94 (TGT2450) 00° 21'N., 98° 38'E. Areas A, B.

\***Platax orbicularis** (Forsskål, 1775)

No figure voucher. Specimen lost. TGT determined our material from 08° 46'S., 115° 02'E. Area A. *Diagnosis*: D. V, 35-39. A III 25-29, P 17-19. L. lat. 44-53. Snout convex before eye. Ventral fins black.

**Platax teira** (Fabricius 1775)

det. TGT. LPPL JIF95 (TGT2440) 00° 20'S., 98° 33'E. Areas A, C.

**Zabidius novemaculeatus** (McCulloch, 1916)

det. CSIRO. CSIRO CA1501. 17° 47'S., 121° 46'E. Area C.

**CHAETODONTIDAE**

**Chaetodon assarius** Waite, 1905

det. PK. CSIRO CA1677 19° 55'S., 116° 17'E. Area C.

**Chaetodon aureofasciatus** Macleay, 1878

det. PK. CSIRO CA2189 20° 39'S., 115° 58'E. Area C.

\***Chaetodon auriga** Forsskål, 1775

No figure voucher. Material at CSIRO from northwestern Australia (e.g. CA3031 from 19° 45'S., 117° 58'E.). Area C.

*Diagnosis*: Broad vertical white-edged band through eye; anteriorly descending oblique dark lines on back, last intersected by posteriorly-descending lines over sides and tail. Caudal fin yellow; large round black spot on soft dorsal fin.

**Chaetodon baronessa** Cuvier, 1829

det. TGT. NTM S.10732-006 (PAN33) 08° 31'S., 115° 32'E. Area B.

**Chaetodon citrinellus** Cuvier, 1831

det. TGT. LPPL JIF100 (TGT2102) 08° 43'S., 115° 16'E. Area B.

**Chaetodon decussatus** Cuvier, 1829

det. TGT. LPPL JIF101 (TGT1210) 08° 43'S., 115° 16'E. Area B.

**Chaetodon ephippium** Cuvier, 1831

det. TGT. LPPL JIF102 (TGT1099) 08° 46'S., 115° 10'E. Area B.

**Chaetodon guentheri** Ahl, 1923

det. P. Whitehead. NTM S.10747-007 (TGT3338) 10° 18'S., 120° 22'E. Areas A, B.

**Chaetodon kleinii** Bloch, 1790

det. TGT. LPPL JIF103 (TGT2105) 08° 43'S., 115° 16'E. Areas A, B.

**Chaetodon melannotus** Bloch & Schneider, 1801

det. TGT. LPPL JIF104 (TGT1545) 08° 22'S., 117° 15'E. Area B.

**Roa australis** Kuitert, 2004

det. TGT. CSIRO CA2188 13° 43'S., 124° 11 'E. Area C. Paratype.

**Chaetodon selene** Bleeker, 1853

det. TGT. LPPL JIF105 (TGT3227) 09° 01'S., 116° 18'E. Area B.

**Chaetodon trifascialis** Quoy & Gaimard, 1825

det. TGT. LPPL JIF107 (TGT1096) 08° 46'S., 115° 10'E. Area B.

**Chelmon marginalis** Richardson, 1842

det. R. Steene. CSIRO CA994 20° 15'S., 115° 56'E. Area C.

**Chelmon muelleri** Klunzinger, 1879

det. R. Steene. CSIRO CA995 13° 42'S., 125° 45'E. Area C.

**Coradion altivelis** McCulloch, 1916

No figure voucher. Our material determined by R. Steene (e.g. CSIRO CA2955 from 19° 02'S., 118° 36'E). Area C.

**Coradion chrysozonus** (Cuvier, 1831)

det. PK. CSIRO CA998 20° 21'S., 116° 22'E. Areas A, B, C.

**Heniochus acuminatus** (Linnaeus, 1758)

No figure voucher. R. Kuitert supplied the photograph of a specimen from eastern Australia. G.R. Allen determined our Survey material (e.g. LPPL JIF108 (TGT3121) from 08° 57'S., 116° 28'E.). Areas A, B.

**Heniochus chrysostomus** Cuvier, 1831

det. TGT. LPPL JIF109 (TGT1547) 08° 22'S., 117° 15'E. Area B.

**Heniochus diphreutes** Jordan, 1903

det. CSIRO. CSIRO CA1504 19° 05'S., 118° 46'E. Areas A, B, C.

**Heniochus singularis** Smith & Radcliffe, 1911

det. TGT. LPPL JIF96 (TGT1025) 08° 51'S., 115° 14'E. Area B.

**Parachaetodon ocellatus** (Cuvier, 1831)

det. CSIRO. Specimen lost. 14° 10'S., 124° 27'E. (Conspecific Survey material determined by CSIRO is CA997 from 20° 21 'S., 116° 22'E.). Areas B, C.

**POMACANTHIDAE****Apolemichthys trimaculatus** (Cuvier, 1831)

det. TGT. NTM S.10752-002 (TGT3231) 09° 01'S., 116° 18'E. Areas A, B, C.

**Chaetodontoplus duboulayi** (Günther, 1867)

det. CSIRO. Specimen lost (no field number). (Conspecific Survey material determined by CSIRO is CA2261 from 20° 10'S., 115° 15'E.). Area C.

**Chaetodontoplus melanosoma** (Bleeker, 1853)

det. TGT. NTM S.10744-002 (TGT951) 08° 30'S., 116° 42'E. Area B. Juvenile colouration.

**Chaetodontoplus personifer** (McCulloch, 1914)

det. CSIRO. CSIRO CA983 20° 12'S., 115° 19'E. Area C.

**Pomacanthus annularis** (Bloch, 1787)

det. TGT. Specimen lost. (TGT1365) 08° 46'S., 115° 02'E. Areas A, B.

**Pomacanthus imperator** (Bloch, 1787)

det. TGT. LPPL JIF97 (TGT3275) 10° 46'S., 122° 43'E. Areas B, C.

**Pomacanthus semicirculatus** (Cuvier, 1831)

det. TGT. LPPL JIF98 (TGT3237) 09° 01'S., 116° 18'E. Areas A, B.

**Pomacanthus sexstriatus** (Cuvier, 1831)

det. TGT. LPPL JIF99 (TGT3242) 09° 01 'S., 116° 18'E. Areas B, C.

**PENTACEROTIDAE****Histiopaterus typus** Temminck & Schlegel, 1844

det. CSIRO. CSIRO CA2257 09° 52'S., 129° 12'E. Areas A, C.

**POMACENTRIDAE****Abudefduf bengalensis** (Bloch, 1787)

det. CSIRO. CSIRO CA2897 20° 11 'S., 117° 13'E. Areas B, C.

**Abudefduf vaigiensis** (Quoy & Gaimard, 1825)

det. TGT. LPPL JIF 10 (TGT1576) 08° 06'S., 115° 16'E. Area B. Sometimes erroneously called *Abudefduf saxatilis* (Linnaeus), a species inhabiting Western Australian waters.



**Chromis sahalensis** Allen & Allen, 2021  
det. TGT. AMS 1.22801-019 19° 32'S., 118° 10'E. Area C.

**Pristotis obtusirostris** (Günther, 1862)  
det. TGT. LPPL JIF111 (TGT2337) 03° 24'S., 100° 33'E. Areas B, C.

## CIRRHITIDAE

**Cirrhitichthys aprinus** (Cuvier, 1829)  
det. TGT & PK. LPPL JIF113 (TGT3248) 08° 24'S., 116° 01'E. Areas B, C.

**Cirrhitichthys aureus** (Temminck & Schlegel, 1843)  
det. PK. NTM S.10736-005 (TGT1755) 08° 34'S., 116° 47'E. Area B.

**Cyprinocirrhites polyactis** (Bleeker, 1874)  
det. PK. NTM S.11015-001 (TGT1912), 07° 16'S., 118° 12'E. Area B. Drawing of preserved specimen.

**Paracirrhites forsteri** (Schneider, 1801)  
det. TGT. LPPL JIF112 (TGT1575) 08° 06'S., 115° 16'E. Area B.

## CEPOLIDAE

**Acanthocephala abbreviata** (Valenciennes, 1835)  
det. PK. ANSP 152037 (TGT917) 08° 30'S., 116° 42'E. Area B.

**Acanthocephala krusensternii** (Temminck & Schlegel, 1845)  
det. PK. ANSP 152036 (TGT2462) 00° 04'S., 99° 01'E. Areas A, C.

**Cepola schlegelii** Bleeker, 1854  
det. PK. NTM S.10999-003 (TGT2453) 00° 25'S., 98° 40'E. Area A.

**Owstonia sibogae** (Weber, 1913)  
det. W. Smith-Vaniz. ANSP 152642 (TGT1673) 08° 30'S., 117° 46'E. Area B.

**Owstonia nudibucca** Smith-Vaniz & Johnson, 2016  
det. W. Smith-Vaniz. ANSP 151993. No field number. 01° 22'S., 98° 37'E. Area A. Holotype.

## SPHYRAENIDAE

**Sphyraena barracuda** (Edwards, 1771)  
det. TGT. LPPL JIF209 (TGT2182) 08° 46'S., 115° 10'E. Area B.

**Sphyraena flavicauda** Rüppell, 1838  
det. PK. CSIRO CA1342 17° 25'S., 121° 50'E. Area C.

**Sphyraena forsteri** Cuvier, 1829  
det. TGT. LPPL JIF114 (TGT2412) 00° 35'N., 97° 55'E. Conspecific material determined by J.M. Rose. Areas A, B, C.

**Sphyraena pinguis** Günther, 1874  
det. TGT. LPPL JIF115 (TGT2484) 00° 04'S., 99° 01'E. Areas A, B, C.

**Sphyraena putnamae** Jordan & Seale, 1905  
det. TGT. LPPL JIF116 (TGT2228) 06° 13'S., 105° 44'E. Areas A, B, C.

\***Sphyraena stellata** Morishita & Motomura, 2020  
No figure voucher. Material from north-western Australia (e.g. CSIRO 50108-37382003) refers.) Area C. *Diagnosis*: body brown above, silvery below. One gill raker at angle of first gill arch; ventral fin inserted slightly before vertical through first dorsal fin origin; eye 4.9-6 in HL; HL 3-3.1 in SL; body depth less than 8 in SL. L. lat. 134-141. Two yellow stripes along sides; caudal fin grey. Clearly the naming of this species has removed confusion over the appropriate identity of the common, one-gilled, many-lateral line-scaled sphyraenid inhabiting Indonesian and northern Australian waters (and further afield). Previously it has been misidentified as either *S. acutipinnis* Day (endemic to the Arabian Sea), *S. africana* Gilchrist & Thomson (only in SW Indian Ocean) or *S. waitii* (eastern Australia and northern New Zealand) (H. Motomura, pers. comm. 2021).

## POLYNEMIDAE

**Filimanus perplexa** Feltes, 1991  
det. TGT. LPPL JIF117 (TGT1387) 08° 46'S., 115° 02'E. Area A.

**Polydactylus microstomus** (Bleeker, 1851)  
det. TGT. LPPL JIF118 (TGT2472) 00° 04'S., 99° 01'E. Areas A, B.

**Polydactylus multiradiatus** (Günther, 1860)  
det. PK. CSIRO CA1544 13° 02'S., 125° 07'E. Area C.

**Polydactylus nigripinnis** Munro, 1964  
No figure voucher. Photo of New Guinea specimen supplied by PK (PK4). Conspecific Survey material (e.g. CSIRO CA1806 from 13° 25'S., 126° 19'E.) determined by CSIRO. Area C.

**Polydactylus plebeius** (Broussonet, 1782)

det. R. Feltes. BMNH 1984.1.1.79 (TGT (PJPW) 764) 08° 36'S., 115° 00'E. Area A.

**Polydactylus sextarius** (Bloch & Schneider, 1801)

det. R. Feltes on photo. Specimen lost. Area A.

**Filimanus xanthonema** (Valenciennes, 1831)

det. R. Feltes. BMNH 1984.1.1.80 (TGT (PJPW) 475) 08° 02'S., 109° 03'E. Area A.

**LABRIDAE****Anampses lennardi** Scott, 1959

det. PK. AMS 1.22806-026 19° 29'S., 118° 22'E. Area C.

**Bodianus bilunulatus** (Lacepède, 1801)

det. M. Gomon. NTM S.10735-003 (TGT1363) 08° 46'S., 115° 02'E. Area B.

**Bodianus solatus** Gomon, 2006

det. M. Gomon. CSIRO C2172 from 20° 07'S., 115° 59'E. Area C. Paratype.

**Oxycheilinus bimaculatus** (Valenciennes, 1840)

No figure voucher. R. Kuitert lent a photo of this species and M. Gomon determined our material (e.g. BMNH 1984.1.1.81 (TGT969) from 08° 30'S., 116° 42'E.). Area B.

**Oxycheilinus orientalis** (Günther, 1862)

det. M. Gomon. BMNH 1984.1.1.82 (TGT1319) 08° 46'S., 118° 17'E. Area B.

**Cheilinus trilobatus** Lacepède, 1801

det. TGT. LPPL JIF119 (TGT909) 08° 10'S., 114° 54'E. Area B.

**Cheilio inermis** (Forsskål, 1775)

det. TGT. NTM S.10748-015 (TGT1004) 08° 43'S., 115° 16'E. Area B.

**Choerodon anchorago** (Bloch, 1791)

det. M. Gomon on photo. NTM S.10741-001 (TGT3011) 08° 43'S., 115° 16'E. Area B.

**Choerodon cephalotes** (Castelnau, 1875)

det. PK. CSIRO CA2144 19° 52'S., 118° 12'E. Area C.

**Choerodon monostigma** Ogilby, 1910

det. CSIRO. AMS 1.21842-029 10° 35'S., 133° 45'E. Area C.

**Choerodon robustus** (Günther, 1862)

det. M. Gomon on photo. Specimen lost (no field number). Area A.

**Choerodon schoenleinii** (Valenciennes, 1839)

det. CSIRO. Specimen lost (no field number). Areas A, B, C.

**Choerodon vitta** Ogilby, 1910

det. CSIRO. AMS 1.22831-028 20° 00'S., 117° 16'E. Area C.

**Choerodon zamboangae** (Seale & Bean, 1907)

det. PK & TGT. NTM S.10752-014 (TGT3238) 09° 01'S., 116° 18'E. Areas B, C.

**Choerodon cauteroma** Gordon & Allen, 1987

det. M. Gomon. CSIRO CA2155 20° 17'S., 116° 04'E. Area C.

**Choerodon sugillatum** Gomon, 1987

det. M. Gomon. CSIRO CA2168 12° 27'S., 124° 27'E. Area C.

**Cirrhilabrus filamentosus** (Klausewitz, 1976)

det. J. Randall. NTM S.10744-001 (TGT955) 08° 30'S., 116° 42'E. Area B.

**Epibulus insidiator** (Pallas, 1770)

det. TGT. NTM S.10757-001 (TGT1708) 08° 43'S., 115° 16'E. Area B.

**Halichoeres hartzfeldii** (Bleeker, 1852)

det. M. Gomon. BMNH 1984.1.1.84 (TGT935) 08° 30'S., 116° 42'E. Area B.

**Halichoeres margaritaceus** (Valenciennes, 1839)

det. J. Randall. LPPL JIF120 (TGT3063) 08° 43'S., 115° 16'E. Area B.

**Halichoeres nebulosus** (Valenciennes, 1839)

det. J. Randall. NTM S.10734-010 (TGT1219) 08° 10'S., 114° 54'E. Area B.

**Hemigymnus melapterus** (Bloch, 1791)

det. M. Gomon on photo. LPPL JIF121 (TGT1551) 08° 22'S., 117° 15'E. Area B.

**Hologymnotus rhodonotus** Randall & Yamakawa, 1988

det. J. Randall on photo. Specimen lost (TGT979) 08° 30'S., 116° 42'E. Area B.

**Labroides dimidiatus** (Valenciennes, 1839)

det. B.C. Russell. NTM S.10736-001 (TGT1757) 08° 34'S., 116° 47'E. Areas A, B.

**Leptojulius cyanopleura** (Bleeker, 1851)

det. J. Randall. AMS 1.22806-019 19° 29'S., 118° 22'E. Areas B, C.

**Novaculichthys taeniourus** (Lacepède, 1801)

det. J. Randall on photo. NTM S.10748-017 (TGT1003) 08° 43'S., 115° 16'E. Area B. This specimen is a juvenile.

**\*Paracheilinus carpenteri** Randall & Lubbock, 1981

No figure voucher. J. Randall determined our specimen (BMNH 1984.1.1.85 (TGT968) from 08° 30'S., 116° 42'E.). Area B. *Diagnosis*: D IX, 11. A III, 9. P 13-14. L. lat. 14-17 + 4-6. GR. 14-17. Mouth small, 3 pair of canine teeth anteriorly in upper jaw, one pair anteriorly in lower jaw. 2 to 4 rays of dorsal fin produced (in adults); caudal fin rounded. Lateral line interrupted. Body orange-pink, white below; 4 or 5 violet broken longitudinal stripes over head and body, 2 stripes under pectoral fin; fins orange and pink with blue bands.

**Pseudodax moluccanus** (Valenciennes, 1840)

det. G.R. Allen. BMNH 1984.1.1.86 (TGT (PJPW) 341) 01° 47'S, 98° 51'E. Area A.

**Pteragogus flagellifer** (Valenciennes, 1839)

det. J. Randall. BMNH 1984.1.1.87 (TGT975) 08° 30'S., 116° 42'E. Area B. (Fins damaged in our specimen).

**Stethojulis interrupta** (Bleeker, 1851)

det. J. Randall. LPPL JIF122 (TGT3061) 08° 43'S., 115° 16'E. Area B.

**\*Suezichthys soelae** Russell, 1985

No figure voucher. Our specimen determined by B.C. Russell (e.g. CSIRO CA2920 from 19° 55'S., 116° 28'E.). Area C. *Diagnosis*: D IX, 11. A III, 10. Tr. above 1½. Lateral line continuous and with less than 30 large scales. Head scaly except for snout, chin and preopercular flange. Two to three rows of cheek scales behind eye and 3 rows below eye. Preoperculum edge smooth; gill membranes free from isthmus. Lips moderately fleshy; teeth conical, 2 pair of large canines at front of upper jaw, a strong canine at angle of mouth. Body depth 4.3-5.1 in SL. A distinct brown band from middle of upper lip to front margin of eye; 7 pale bars across back; black spot on membrane between first 2 dorsal spines and 4-6 black spots on upper part of caudal fin.

**Choerodon typus** (Bleeker, 1856)

det. PK. NTM S.11016-004 (TGT2473) 00° 04'S., 99° 01'E. Areas A, C.

**Iniistius dea** (Temminck & Schlegel, 1845)

det. PK. CSIRO CA2145 19° 14'S., 118° 48'E. Areas B, C.

**Iniistius opalus** Fukui, 2018

det. Y. Fukui & PK. Specimen lost. 19° 47'S., 116° 33'E. (Conspecific material determined by CSIRO is CSIRO CA2974 from 19° 31'S., 118° 34'E.). Area C. Holotype.

**Iniistius pavo** (Valenciennes, 1840)

det. B.C. Russell. NTM S.10745-002 (TGT1888) 08° 24'S., 117° 52'E. Areas A, B.

**Iniistius pentadactylus** (Linnaeus, 1758)

det. J. Randall on photo. LPPL JIF123 (TGT1592) 08° 06'S., 115° 16'E. Area B.

**SCARIDAE****Calotomus spinidens** (Quoy & Gaimard, 1824)

det. J. Randall. NTM S.10734-007 (TGT1217) 08° 10'S., 114° 54'E. Area B. J. Randall (pers comm.) observed that our specimens differ from the recognised form of *C. spinidens* at least in having black spots in the region of the pectoral fin.

**Leptoscarus vaigiensis** (Quoy & Gaimard, 1824)

det. J. Randall. LPPL JIF124 (TGT3008) 08° 43'S., 115° 16'E. Area B.

**Scarus rivulatus** Valenciennes, 1840

det. TGT. LPPL JIF125 (TGT923) 08° 30'S., 116° 42'E. Area B.

**Scarus ghobban** Fabricius, 1775

det. CSIRO. Specimen lost. 12° 52'S., 125° 39'E. Areas A, B, C.

**OPISTOGNATHIDAE****Opistognathus castelnaui** Bleeker, 1859

det. W. Smith-Vaniz. NTM S.10762-001 (TGT1022) 08° 49'S., 115° 15'E. Area B.

**Opistognathus latitabundus** (Whitley, 1937)

det. W. Smith-Vaniz. AMS I. 21842-005. 10° 35'S., 133° 45'E. Area C.

## CHAMPSODONTIDAE

### *Champsodon nudivittis* (Ogilby, 1895)

det. PK, based on Nemeth, 1994. NTM S.10824-004 (TGT2376) 01° 59'S., 99° 26'E. Areas A, B.

### *Champsodon atridorsalis* Ochiai & Nakamura, 1964

det. PK, based on Nemeth, 1994. BMNH 1984.1.1.90 (TGT (PJPW) 781 in part) 09° 32'S., 114° 30'E. Areas A, B.

### *Champsodon vorax* Günther, 1867

det. PK, based on Nemeth, 1994. BMNH 1984.4.11.10 (TGT (PJPW) 363) 03° 51'S., 101° 55'E. Area A.

### *Champsodon longipinnis* Matsubara & Amaoka, 1964

det. PK. NTM S.11032-001 (TGT2577) 09° 01'S., 109° 11'E. Areas A, B, C.

## \*CHIASMODONTIDAE

**Moderate-sized, elongate fishes. Premaxilla and maxilla elongate and slender, firmly fused distally, extending well past posterior eye margin; head rough and pitted by sensory pores. Teeth long, on jaws and palatines; mouth and stomach very distensible. Two separate dorsal fins, first short with VII-XIII flexible spines, second long with 18-29 segmented rays; anal fin long with I spine and 17-29 segmented rays. Body in adults naked or covered with prickles, covered with spinoid scales in juveniles. Some genera have photophores; caudal fin forked.**

Four genera in the family; two species of one genus were obtained on the Survey.

### \* *Pseudoscopelus sagamianus* Tanaka, 1908

No figure voucher. det. PK based on Melo, 2010. BMNH 1984.1.1.93 (TGT (PJPW) 809) from 09° 43'S., 114° 15'E. and BMNH 1984.1.1.94 (PJPW 177) from 09° 33'S., 114° 37'E. Area A. *Diagnosis*: palatine teeth arranged in 2 or 3 series, rows of small mucous pores on head and belly appearing as dark streaks, snout short and rounded, and mouth cavity and gill arches entirely dark. D. VIII, 22-25. A. 20-25.

### \* *Pseudoscopelus* sp.

No figure voucher. Our material determined by T. Uyeno. (BMNH 1984.1.1.92 (PWPW2033) from 09° 43'S., 114° 15'E.). Area B. These are juvenile specimens.

## BEMBROPIDAE

### *Bembrops platyrhynchus* (Alcock, 1894)

det. PK. AMS 1.22808-051 17° 59'S., 118° 17'E. Area C.

### *Bembrops curvatura* Okada & Suzuki, 1952

det. PK & J.S. Nelson. NTM S.10740-004 (TGT1630) 09° 57'S., 116° 34'E. Area B.

### *Bembrops filiferus* Gilbert, 1905

det. PK & J.S. Nelson. AMS 1.22808-001 17° 59'S., 118° 17'E. Areas B, C.

### *Bembrops philippinus* Fowler, 1939

det. PK. NTM S.10998-002 (TGT2512) 01° 25'S., 100° 19'E. Area B.

### *Chrionema chlorotaenia* McKay, 1971

det. PK & J.S. Nelson. NTM S.10760-009 (TGT1727) 09° 58'S., 116° 34'E. Areas B, C. Our material shows quite some overlap with *C. chryseres* Gilbert.

## \*HEMEROCOETIDAE

This family is split off from the BEMBROPIDAE, and contains eight genera including *Acanthaphritis*, *Spinapsaron* and *Squamicroedia* (see e.g., Nelson, 1982; [www.fishbase.se](http://www.fishbase.se)). It is characterised by having a single spine on the operculum (2 in BEMBROPIDAE), upper and lower jaws equal in length (lower jaw longer in BEMBROPIDAE) and having 2 forward-directed spines on tip of snout. There are no keels on lateral line scales (scales keeled in BEMBROPIDAE).

### \* *Acanthaphritis barbata* (Okamura & Kishida, 1963)

No figure voucher. Our material determined by PK & J.S. Nelson (e.g. NTM S.11070-001 from 19° 29'S., 115° 59'E.). Area C. *Diagnosis*: Posterior dorsal rays elongate; barbel at tip of upper jaw. Bright yellow band from operculum to upper tail base; branchiostegals bright yellow; spinous dorsal fin black, and yellow streak on caudal fin. D V, 20-21. A 24-26.

## PINGUIPEDIDAE

### *Parapercis alboguttata* (Günther, 1872)

det. PK. CSIRO CA1801 19° 54'S., 116° 02'E. Area C.

### *Ryukyupercis gushikeni* (Yoshino, 1975)

det. PK & G. Stroud. AMS 1.22804-012 18° 57'S., 118° 12'E. Area C.

### *Parapercis muronis* (Tanaka, 1918)

det. J. Johnson. AMS 1.22807-038 18° 32'S., 118° 17'E. Area C.

### *Parapercis striolata* (Weber, 1913)

det. J. Johnson. CSIRO CA1441 10° 02'S., 130° 03'E. Areas A, C.

**Parapercis nebulosa** (Quoy & Gaimard, 1825)  
det. PK. Specimen lost. 19° 53'S., 118° 13'E. Area C.

**Parapercis sexfasciata** (Temminck & Schlegel, 1843)  
No figure voucher. Our specimen determined by J. Gomon (BMNH 1984.1.1.88 (TGT (PJPW) 560) from 08° 03'S., 110° 05'E.). Area A. *P. lutevittata* Liao, Cheng & Shao, 2022, known from Japan, Taiwan and Indonesia, is very similar to this species.

**Parapercis compressa** Randall, 2008  
det. J. Johnson. NTM S.10746-004 Holotype. (TGT1342) 08° 46'S., 118° 17'E. Area B.

\***Parapercis rubricaudalis** Johnson & Motomura, 2017  
No figure voucher. Our material determined by J. Johnson (e.g. CSIRO CA1772 from 19° 50'S., 116° 28'E. and CSIRO CA1791 from 20° 03'S., 115° 57'E.). Area C. *Diagnosis*: Posterior end of opercular ridge with two or three strong spines, margins of preopercle, subopercle and interopercle strongly serrated. Colouration of six broad irregular orange to reddish bands across body, and ventral fin and lower third of caudal fin crimson-red. D V; 21. A. I, 17. P 15-17. L. lat. 56-58.

## URANOSCOPIDAE

**A note about *Uranoscopus*: With support of experts we have tried to no avail to place the correct identities on the material caught in the Survey. Even recent literature on this family is conflicting with respect to characters used to define species, and maybe also growth-induced morphological changes.**

**Xenocephalus australiensis** (Kishimoto, 1989)  
det. PK. NTM S.10750-002 (TGT1450) 08° 56'S., 116° 24'E. Areas A, B.

**Ichthyoscopus fasciatus** Haysom, 1957  
det. PK. CSIRO CA1437 11° 04'S., 130° 36'E. Area C.

**Ichthyoscopus insperatus** Mees, 1960  
det. CSIRO. CSIRO CA1785 12° 17'S., 124° 04'E. Area C.

**Uranoscopus bicinctus** Temminck & Schlegel, 1843  
det. H. Kishimoto on photo. CSIRO CA 1780 19° 37'S., 117° 49'E. Area C.

**Uranoscopus cognatus** Cantor, 1849  
det. PK. CSIRO CA1567 13° 48'S., 124° 19'E. Areas A, B, C.

**Uranoscopus kaianus** Günther, 1880  
det. H. Kishimoto on photo and notes. BMNH 1984.1.1.89 (TGT (PJPW) 324) 08° 02'S., 109° 03'E. Areas A, B, C. This is not the same species as Weber's (1913) and de Beaufort & Chapman's (1951) *U. kaianus*.

**Uranoscopus sp. cf oligolepis** Bleeker, 1878  
No figure voucher. Our specimen (NTM S.11013-003 (TGT1788) from 08° 40'S., 116° 37'E.) determined by PK & TGT. Area B.

**Uranoscopus sp. cf brunneus** Fricke, 2018  
det. PK & TGT. IORD 83-408 (TGT2583) 07° 58'S., 109° 20'E. Conspecific Survey material is IORD 83-56. Areas A, B.

**Uranoscopus sp. cf japonicus** Houuttuyn, 1782  
det. PK. CSIRO CA1779 12° 52'S., 125° 38'E. Area C. This species is characterised by the white spots over upper head and nape.

**Uranoscopus sp. cf affinis** Cuvier, 1829  
det. PK. CSIRO CA2710 10° 50'S., 131° 07'E. Area C.

**Uranoscopus sp. cf arafurensis** Prokofiev, 2020  
det. R. Fricke. AMS 1.22821-03418° 10'S., 118° 18'E. Area C.

**Uranoscopus sp. cf kishimotoi** Fricke, 2018  
det. R. Fricke. IORD 83-54 (TGT3219) 09° 01'S., 116° 18'E. Area B.

\***Uranoscopus sp.**  
No figure voucher. Our specimen near Lombok Island. (IORD 83-55 (no field number) 08° 56'S., 116° 24'E.) Area B. This species is very similar to *U. japonicus* Houuttuyn but differs from it in having a larger tube on posterior nostril, embedded scales on nape and fewer vertebrae. *Diagnosis*: Upper head, back and upper sides variegated with dark brown lines, pale and dark blotches. First dorsal fin base white, rest of fin black. Humeral spine strong, exposed. Flap of tissue along inside of lower jaw broad and slightly rounded (with a large broad irregular filament in juveniles). Nape naked; spines on lower border of preoperculum; 8-10<sup>th</sup> pectoral fin rays longest, hind fin border emarginate above them. One pair of prepelvic spines plus anterior buckler. D IV; 13-14. A 14. P 18. Scale rows about 55 between head and tail base.

## BLENNIIDAE

**Xiphasia setifer** Swainson, 1839  
det. PK on photo. CSIRO CA2282 15° 16'S., 139° 00'E. Areas A, C. (Note: A second species *X. matsubarae* Okada & Suzuki, may occur in the area).

## AMMODYTIDAE

### **Bleekeria viridianguilla** (Fowler, 1931)

det. PK. CSIRO B. 3861 19° 05'S., 120° 31'E. (Conspecific material determined by PK: NTM S.10744-009 (TGT950) from 08° 30'S., 116° 42'E.) Areas B, C.

### **Bleekeria mitsukurii** (Jordan & Evermann, 1902)

det. PK. NTM S. 10744-007 (TGT949) 08° 30'S.; 116° 42'E. Areas B, C.

## GOBIIDAE

### **Oxyurichthys ophthalmonema** (Bleeker, 1856)

det. H. Larson. NTM S.10733-002 (TGT1076) 08° 46'S., 115° 10'E. Area B.

### **Obliquogobius yamadai** Shibukawa & Aonuma, 2007

det. H. Larson. NTM S.10998-001 (TGT2528) 01° 25'S., 100° 19'E. Area A. Paratype?

## ACANTHURIDAE

### **Acanthurus bariene** Lesson, 1831

det. J. Randall on photo. Specimen lost (no field number). Area A. Est. 300 mm SL when caught.

### **Acanthurus mata** (Cuvier, 1829)

det. TGT. LPPL JIF126 (TGT2371) 01° 59'S., 99° 26'E. Areas A, B.

### **Acanthurus dussumieri** Valenciennes, 1835

det. PK on photo. Specimen lost. (TGT1161) 08° 28'S., 119° 08'E. Areas A, B.

### **Acanthurus grammoptilus** Richardson, 1843

det. J. Randall. CSIRO CA1410 20° 12'S., 115° 19'E. Area C.

### **Acanthurus lineatus** (Linnaeus, 1758)

det. TGT. LPPL JIF127 (PAN39) 08° 31'S., 115° 32'E. Area B.

### **Acanthurus blochii** Valenciennes, 1835

det. J. Randall. LPPL JIF128 (TGT907) 08° 43'S., 115° 16'E. Area B.

### **Acanthurus olivaceus** Bloch & Schneider, 1801

det. TGT. LPPL JIF129 (TGT1361) 08° 46'S., 115° 02'E. Area B.

### **Acanthurus tennentii** Günther, 1861

det. J. Randall on photo. Specimen lost (no field number). Area A.

### **Acanthurus xanthopterus** Valenciennes, 1835

det. J. Randall on photo. LPPL JIF210 (TGT1034) 08° 10'S., 114° 54'E. Areas A, B.

### **Naso thynnoides** (Cuvier, 1829)

det. TGT. Specimen lost (no field number). Areas A, B.

### **Naso brachycentron** (Valenciennes, 1835)

det. TGT. LPPL JIF130 (TGT3175) 08° 58'S., 116° 31'E. Areas A, B.

### **Naso lituratus** (Forster, 1801)

det. TGT. Specimen lost (no field number). Area A.

### **Naso lopezi** Herre, 1927

det. PK on photo. Specimen lost. (TGT1406) 07° 55'S., 109° 42'E. Area A.

### **Naso mcdadei** Johnson, 2002

det. TGT. LPPL JIF133 (TGT2343) 01° 59'S., 99° 26'E. Areas A, B, C.

### **Naso unicornis** (Forsskål, 1775)

det. TGT. Specimen lost. (TGT3302) 10° 55'S., 122° 43'E. Areas A, B.

### **Naso reticulatus** Randall, 2001

det. J. Randall. LPPL JIF132 (TGT2265) 06° 13'S., 104° 38'E. Areas A, B.

## ZANCLIDAE

### **Zanclus cornutus** (Linnaeus, 1758)

det. PK. LPPL JIF134 (TGT1098) 08° 46'S., 115° 10'E. Areas B, C.

**SIGANIDAE*****Siganus argenteus*** (Quoy & Gaimard, 1825)

No figure voucher. Photo of 140 mm SL specimen from Mauritius (AMS 1.22388) supplied by D.J. Woodland who determined our specimen (BMNH 1984.1.1.95 (TGT(PJPW)333) from 03° 47'S., 101° 54'E.). Area A.

***Siganus canaliculatus*** (Park, 1797)

det. TGT. LPPL JIF135 (TGT2501) 00° 19'S., 99° 38'E. Areas A, B.

***Siganus corallinus*** (Valenciennes, 1835)

det. D.J. Woodland. LPPL JIF136 (TGT1438) 08° 56'S., 116° 24'E. Areas A, B.

***Siganus fuscescens*** (Houttuyn, 1782)

det. D.J. Woodland. Specimen lost (no field number). (Conspecific Survey material determined by CSIRO is CSIRO CA1406 from 20° 03'S., 116° 21'E.). Area C.

***Siganus guttatus*** (Bloch, 1787)

det. D.J. Woodland. LPPL JIF137 (TGT1018) 08° 45'S., 115° 17'E. Area B.

***Siganus punctatus*** (Schneider & Forster, 1801)

det. TGT & D.J. Woodland. LPPL JIF138 (TGT1430) 08° 56'S., 116° 24'E. Areas B, C.

***Siganus spinus*** (Linnaeus, 1758)

det. D.J. Woodland. NTM S.11044-001 (TGT1201) 08° 45'S., 115° 17'E. Area B.

***Siganus virgatus*** (Valenciennes, 1835)

det. D.J. Woodland. NTM S.10750-004 (TGT 1431) 08° 56'S., 116° 24'E. Area A.

**GEMPYLIDAE*****Gempylus serpens*** Cuvier, 1829

det. TGT & PK. NTM S.11118-001 (no field number) 08° 23'S., 109° 19'E. Area B. Drawing of preserved specimen.

***Lepidocybium flavobrunneum*** (Smith, 1843)

det. TGT. LPPL JIF171 (BZ12) 06° 10'S., 104° 38'E. Area A.

***Neopinnula orientalis*** (Gilchrist & von Bonde, 1924)

det. J.B. Hutchins. WAM P.26261-001 15° 15'S., 121° 29'E. Areas A, B, C.

***Promethichthys prometheus*** (Cuvier, 1832)

det. PK. LPPL JIF206 (TGT1784) 08° 57'S., 116° 08'E. Area B.

***Rexea prometheoides*** (Bleeker, 1856)

No figure voucher. Photo supplied by I. Nakamura, who identified our material (e.g. BMNH 1984.1.1.96 (TGT PJPW) 776) from 03° 88'S., 101° 95'E.). (Conspecific material NTM S.10752-013 (TGT3211A). Areas A, B, C.

**\* *Rexea nakamurai*** Parin, 1989

No figure voucher. det. N. Parin. NTM S.11039-002 (TGT1456) from 03° 88'S., 101° 95' E. Area A. *Diagnosis:* Body iridescent greyish brown, silvery grey below. Black patch over membrane between first 2 dorsal spines, fin margin black. Body moderately long, its depth about 6 in SL; naked except for rectangular patch of scales from below middle of soft dorsal fin to caudal peduncle. Two distinct lateral lines, upper from operculum along dorsal profile ending below posterior 1/3 of soft dorsal fin, lower line branching off upper line below 5<sup>th</sup> to 6<sup>th</sup> dorsal spine, running along lower sides. Base of first dorsal fin 2.2-2.6 longer than base of second dorsal fin+finlets. Ventral fin present as short spine (no rays) in young, absent in adults; 2 small finlets present behind each unpaired fin. D XVIII; I, 15-18 + 2. A I, 12-13 + 2. (voucher: 120 mm SL)

***Thyrsitoides marleyi*** Fowler, 1929

det. PK & TGT. LPPL JIF172 (no field number). Areas A, B.

**TRICHIURIDAE*****Benthodesmus vityazi*** Parin & Becker, 1970

det. PK. AMS 1.22810-027 18° 40'S., 116° 30'E. Area C.

***Tentoriceps cristatus*** (Klunzinger, 1884)

det. PK. NTM S.11034-001 (TGT2334) 02° 42'S., 99° 56'E. Areas A, B, C.

***Trichiurus lepturus*** Linnaeus, 1758

det. PK. NTM S.11005-005 (TGT2214) 06° 20'S., 109° 10'E. Areas A, B, C.

## SCOMBRIDAE

### **Gymnosarda unicolor** (Rüppell, 1836)

det. B.B. Collette on photo. Specimen lost (no field number). Area A.

### **Rastrelliger brachysoma** (Bleeker, 1851)

det. TGT. LPPL JIF141 (TGT2497) 00° 19'S., 99° 38'E. Areas A, B.

### **Rastrelliger kanagurta** (Cuvier, 1816)

det. TGT. LPPL JIF142 (TGT2116) 08° 46'S., 115° 10'E. Areas A, B, C.

### **Sarda orientalis** (Temminck & Schlegel, 1844)

det. B.B. Collette on photo. Specimen lost (no field number). Area A. 288 mm SL when caught.

### **Scomber australasicus** Cuvier, 1832

det. B.B. Collette. LPPL JIF143 (TGT3322) 10° 05'S., 119° 50'E. Areas A, B.

### **Scomberomorus commerson** (Lacepède, 1800)

det. PK. Specimen lost. 03° 45'S., 101° 55'E. Areas A, B, C.

### **Scomberomorus guttatus** (Bloch & Schneider, 1801)

det. B.B. Collette on photo. Specimen lost (no field number). Area A.

### **Scomberomorus munroi** Collette & Russo, 1980

det. PK. CSIRO CA1251 13° 16'S., 128° 21'E. Area C.

### **Scomberomorus queenslandicus** Munro, 1943

det. PK. CSIRO CA2196 13° 42'S., 125° 45'E. Area C.

## CENTROLOPHIDAE

### **Psenopsis humerosus** Munro, 1958

det. C. Karrer on photo, specimen lost 10° 02'S., 130° 03'E. Area C.

### **Psenopsis obscura** Haedrich, 1967

No figure voucher. C. Karrer has determined our material (BMNH 1984.1.1.98 and 1984.1.1.97 (PJPW21 and 124) from 08° 40'S., 115° 08'E.). Area A.

### **Psenopsis sp.**

Specimen lost (TGT1686) 08° 32'S., 115° 53'E. Areas A, B. Although this was the most common *Psenopsis* obtained during the Survey we were unable to determine its full identity. Parin & Piotrovsky (2004: 41) wondered if it could be *P. shojimai* Ochiai & Mori, 1965, which is known from Malaysia, Vietnam and Japan.

## NOMEIDAE

### \* **Cubiceps baxteri** McCulloch, 1923

No figure voucher. Our specimen determined tentatively by PK (CSIRO CA1982 from 19° 44'S., 117° 16'E.). Area C.  
*Diagnosis*: Predorsal scales extending onto snout, all of same size. Single rows of teeth on tongue, palate and vomer. Snout rounded, jaws terminal, predorsal profile gently convex. Body depth 25% SL. D X, I, 21-22. A III, 19-22. P 21.

### **Cubiceps pauciradiatus** Günther, 1872

det PK. NTM S.11117-001 (no field number) Area A. Drawing of preserved specimen. Conspecific material from Saleh Bay (08° 22'S., 117° 41'E., CSIRO H.5972-34, Area B) determined by C. Karrer. Drawing of preserved specimen.

### **Cubiceps whiteleggii** (Waite, 1894)

det. PK. NTM S.10998-013 (TGT2515) 01° 25'S., 100° 19'E. Areas A, B. Conspecific material determined by C. Karrer (e.g. NTM S.10769-001, Bali Strait, 08° 37'S., 114° 38'E. Area A).

### **Psenes arafurensis** Günther, 1889

No figure voucher. Our material determined by C. Karrer (e.g. BMNH 1984.1.1.99 (PJPW 199A) from 08° 49'S., 114° 17'E.). Areas A, B, C.

### **Psenes pellucidus** Lutken, 1880

No figure voucher. Our specimen (BMNH 1984.1.1.100 (PJPW2030) from 08° 49'S., 114° 17'E.) determined by C. Karrer. Area A.

### **Psenes sp. cf cyanophrys** Valenciennes, 1833

det. C. Karrer. BMNH 1984.1.1.101 (PJPW13) 08° 40'S., 115° 08'E. Area A. *Psenes cyanophrys* Cuvier is a deep-bodied species found extensively in the northern Indian Ocean, and extending into northern Australia (Parin & Piotrovsky, 2004).



**ARIOMMATIDAE**

**Ariomma brevimanus** Klunzinger, 1884

det. TGT & PK. NTM S.10761-004 (TGT3156) 08° 27'S., 117° 47'E. Areas A, B. Conspecific material in the BMNH from our Survey have been determined by C. Karrer (e.g. BMNH 1984.1.1.116 (TGT (PJPW) 302)).

**Ariomma indica** (Day, 1871)

det. TGT. NTM S.10733-018 (TGT2115) 08° 46'S., 115° 10'E. Areas A, B, C.

**Ariomma parini** Piotrovsky, 1987

det. PK. ZMH 4/84 10° 02'S., 130° 03'E. Area C.

**STROMATEIDAE**

**Pampus argenteus** (Euphrasen, 1788)

det. R.L. Haedrich. BMNH 1984.1.2.5 (TGT (PJPW) 754) 07° 55'S., 109° 42'E. Area A.

**Pampus sp cf candidus** Cuvier, 1833

det. TGT. LPPL JIF144 (TGT2220) 06° 13'15"S., 105° 44'E. Area A. This is the usual '*Pampus*' obtained in the Survey area.

**CALLIONYMIDAE**

**Callionymus meridionalis** Suwardji, 1965

det. R. Fricke. BMNH 1982.8.11 :1-2 (TGT1800) 08° 40'S., 116° 37'E. Area B.

**Callionymus moretonensis** Johnson, 1971

det. R. Fricke. CSIRO CA3532 13° 18'S., 128° 21'E. Area C.

**Callionymus semeiophor** Fricke, 1983

det. R. Fricke. NTM S.10764-001 (TGT3044) 08° 30'S., 117° 58'E. Area B. Paratype.

\* **Callionymus sublaevis** McCulloch, 1926

No figure voucher. Survey material determined by CSIRO, (e.g. CSIRO CA3070 from 18° 48'S., 118° 16'E.) Area C.

*Diagnosis*: D IV; 9½. A 9½. P (total) 19-20. Preopercular spine with tip bent inwards, one or 2 strong curved serrae on inner margin and an antrorse spine near base on outer margin. Only first upper pectoral ray undivided; first dorsal begins well behind gill opening; upper surface of head entirely smooth and covered by skin.

**Callionymus superbus** Fricke, 1983

det. R. Fricke. SMNS 8561 (TGT1220) 08° 10'S., 114° 54'E. Area B.

**Callionymus whiteheadi** Fricke, 1981

No figure voucher. Our material determined by R. Fricke (e.g. BMNH1980.11.25:2 (TGT (PJPW) 460) from 08° 43'S., 115° 07'E.). Area A.

\* **Callionymus belcheri belcheri** Richardson, 1844

No figure voucher. Our material determined by PK. e.g. CSIRO CA2141 from 19° 44'S., 116° 02'E. Area C. *Diagnosis*: D IV; 9½. A 9½. P (total) 18-20. Large preopercular spine with nearly straight tip turned slightly outwards and 7 to 11 strong serrae along inner margin which increase in size proximally and a basal antrorse spine on outer margin. Only first upper pectoral ray undivided; first dorsal fin origin well behind gill opening; no membrane behind 4th spine in first dorsal fin; caudal fin much shorter than body length. Two to 5 characteristic brown spots on sides immediately below lateral line from pectoral fin tip to tail base.

**Callionymus filamentosus** Valenciennes, 1837

det. R. Fricke. SMNS 8501 (TGT1578) 08° 06'S., 115° 16'E. Areas A, B.

**Callionymus goodladi** (Whitley, 1944)

det. T. Nakabo on photo. Specimen lost. 20° 30'S., 115° 36'E. (Conspecific Survey material determined by CSIRO, e.g. CSIRO CA1477 from 21° 00'S., 115° 40'E.). Area C.

**Callionymus grossi** Ogilby, 1910

det. T. Nakabo on photo. Specimen lost. 20° 58'S., 115° 55'E. (Conspecific Survey material determined by CSIRO, e.g. CSIRO CA2132 from 21° 00'S., 115° 46'E.). Area C.

**Callionymus japonicus** Houttuyn, 1782

det. R. Fricke. SMNS 8538 (TGT2607) 08° 33'S., 114° 31'E. Area A.

\* **Callionymus limiceps** Ogilby, 1908

No figure voucher. Survey material determined by PK from 11° 55'S., 131° 36'E. (Conspecific Survey material, CSIRO CA1364 from 17° 25'S., 121° 50'E., determined by CSIRO). Area C. *Diagnosis*. D IV; 9½. A 9½. P (total) 18-20. Preopercular spine with tip bent inwards, one to 2 strong curved serrae on inner margin and an antrorse spine near base on outer margin. Only first upper pectoral ray undivided, first dorsal fin origin well behind gill opening; all rays of first dorsal fin elongate in males, short in females; upper surface of head rugose.

**Callionymus australis** Fricke, 1983

det. R. Fricke. Specimen lost. 19° 55'S., 116° 00'E. (Conspecific Survey material is CSIRO CA2142 from 20° 03'S., 115° 57'E.). Area C.

**Dactylopus dactylopus** (Valenciennes, 1837)

det. PK. CSIRO CA2129 19° 37'S., 117° 49'E. Area C.

**Synchiropus altivelis** (Temminck & Schlegel, 1845)

det. R. Fricke. AMS I. 22828-011 19° 01'S., 117° 12'E. Areas A, C.

**Synchiropus rameus** (McCulloch, 1926)

det. R. Fricke. CSIRO CA2788 13° 02'S., 125° 07'E. Area C.

**DRACONETTIDAE****Centrodraco rubellus** Fricke, Chave & Suzumoto 1992

det. R. Fricke. SMNS 8525 (TGT1709) 08° 58'S., 116° 34'E. Area B. Paratype.

**\*Centrodraco insolitus** (McKay, 1971)

No figure voucher; material det. by R. Fricke. e.g. WAM P.25394-011, Rowley Shoals. Diagnosis: D spines stout, first spine longer than 2<sup>nd</sup> spine; dorsal rays filamentous in males; first dorsal pale and body plain; vertical dark lines on 2<sup>nd</sup> dorsal fin membrane; no dark streaks on upper caudal fin. D III, 13-14. A 13-14. P 20. Area C.

**PSETTODIDAE****Psettodes erumei** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF145 (TGT2417) 00° 51'N., 97° 58'E. Areas A, B, C.

**CITHARIDAE****Brachypleura novaezeelandiae** Günther, 1862

det. PK. CSIRO CA1575 12° 34'S., 128° 27'E. Area C.

**PARALICHTHYIDAE****Pseudorhombus argus** Weber, 1913

det. G. Leyland. CSIRO CA2907 20° 29'S., 116° 10'E. Area C.

**Pseudorhombus arsius** (Hamilton, 1822)

det. CSIRO. CSIRO CA2898 14° 08'S., 128° 34'E. Areas B, C.

**Pseudorhombus diplospilus** Norman, 1926

det. CSIRO. CSIRO CA3074 20° 05'S., 118° 02'E. Area C.

**Pseudorhombus dupliciocellatus** Regan, 1905

det. PK. LPPL JIF146 (TGT3222) 09° 01'S., 116° 18'E. Areas A, B, C.

**Pseudorhombus elevatus** Ogilby, 1912

det. PK. CSIRO CA2103 13° 38'S., 124° 30'E. Areas B, C.

**Pseudorhombus javanicus** (Bleeker, 1853)

det. D.A. Hensley. NTM S.11043-001 (TGT2152) 08° 46'S., 115° 10'E. Areas A, B.

**Pseudorhombus jenynsii** (Bleeker, 1855)

det. G. Leyland. CSIRO CA3008 20° 11'S., 117° 23'E. Area C.

**Pseudorhombus malayanus** Bleeker, 1865

det. D.A. Hensley. NTM S.11028-001 (TGT2586) 07° 58'S., 109° 20'E. Area A.

**Pseudorhombus neglectus** Bleeker, 1865

No figure voucher. Our specimen determined by K. Amaoka on photo (BMNH 1984.1.1.105, no field number). Area A.

**Pseudorhombus quinquocellatus** Weber & de Beaufort, 1929

det. I.S.R. Munro. CSIRO CA2075 19° 44'S., 116° 28'E. Area C.

**Pseudorhombus spinosus** McCulloch, 1914

det. PK. CSIRO CA2098 13° 29'S., 129° 01'E. Area C.

**Pseudorhombus triocellatus** (Bloch & Schneider, 1801)

det. K. Amaoka. BMNH 1984.1.1.107 (TGT (PJPW) 750) 08° 36'S., 115° 00'E. Area A.

**Pseudorhombus megalops** Fowler, 1934

det. K. Amaoka & D.A. Hensley. CSIRO CA2526 09° 29'S., 132° 00'E. Areas A, B, C.

**BOTHIDAE****Arnoglossus dalgleishi** (von Bonde, 1922)

det. K. Amaoka. BMNH 1984.1.1.103 (PJPW 28) 08° 48'S., 114° 29'E. Area A.

**Arnoglossus debilis** (Gilbert, 1905)

det. D.A. Hensley. NTM S.10760-007 (TGT1745) 08° 58'S., 116° 34'E. Area B.

**Arnoglossus elongatus** Weber, 1913

No figure voucher. Our material determined by K. Amaoka & D.A. Hensley (e.g. CSIRO CA2529 from 17° 49'S., 120° 18'E.). Area C.

**Arnoglossus japonicus** Hubbs, 1915

No figure voucher. Our material determined by K. Amaoka (e.g. CSIRO CA2532 from 19° 29'S., 115° 59'E.). Area C.

**Arnoglossus polyspilus** (Günther, 1880)

No figure voucher. Our material determined by D.A. Hensley (e.g. AMS 1.22807-026 (in part) from 18° 32'S., 118° 17'E.). Area C.

**Arnoglossus waitei** Norman, 1926

det. D.A. Hensley. CSIRO CA2531 13° 18'S., 128° 21'E. Area C.

**Asterorhombus intermedius** (Bleeker, 1865)

det. PK. CSIRO CA1484 20° 56'S., 115° 40'E. Area C.

**Bothus myriaster** (Temminck & Schlegel, 1846)

det. K. Amaoka. BMNH 1984.1.1.104 (TGT (PJPW) 694) 08° 26'S., 114° 29'E. Area A.

**Bothus pantherinus** (Rüppell, 1830)

det. PK. NTM S.10733-013 (TGT1100) 08° 46'S., 115° 10'E. Area B.

**Chascanopsetta lugubris** Alcock, 1894

det. K. Amaoka. BMNH 1984.1.1.106 (no field number). Area A.

**Crossorhombus azureus** (Alcock, 1889)

det. D.A. Hensley. AMS 1.22806-020 19° 30'S., 118° 18'E. Area C.

**Engyprosopon grandisquama** (Temminck & Schlegel, 1846)

det. PK. CSIRO CA3066 20° 39'S., 115° 58'E. Areas A, C.

**Engyprosopon maldivense** (Regan, 1908)

No figure voucher. Our material determined by D.A. Hensley (e.g. CSIRO CA2527 from 13° 06'S., 125° 03'E.).

**Engyprosopon latifrons** (Regan, 1908)

det. PK. CSIRO B.2178 20° 03'S., 115° 57'E. Area C.

**Engyprosopon oculus** (Amaoka & Arai, 1998)

det. D.A. Hensley. CSIRO CA2530 20° 39'S., 116° 45'E. Area C.

**Grammatobothus pennatus** (Ogilby, 1913)

No figure voucher. Specimens determined by PK (e.g. CSIRO B.2988 from 20° 03'S., 115° 57'E.). Area C.

**Grammatobothus polyophthalmus** (Bleeker, 1865)

det. PK. CSIRO CA1519 14° 01'S., 125° 34'E. Area C.

**Kamoharaia megastoma** (Kamohara, 1936)

det. CSIRO. Specimen lost (no field number) (Conspecific material AMS 1.22828-005 from 19° 04'S., 117° 05'E.). Area C.

**Laeops guentheri** Alcock, 1890

No figure voucher. Our material determined by D.A. Hensley (e.g. NTM S.10751-003 (TGT1674) from 08° 30'S., 117° 46'E.). Area B.

**Laeops parviceps** Günther, 1880

det. K. Amaoka. CSIRO CA2528 13° 16'S., 128° 21'E. Area C.

**Neolaeops microphthalmus** (von Bonde, 1922)

det. D.A. Hensley. NTM S.10998-004 (TGT2526) 01° 25'S., 100° 19'E. Area A. Our specimen came from a depth of 225-236m.

**Parabothus kiensis** (Tanaka, 1918)

det. D.A. Hensley. AMS 1.22807-026 (in part) 18° 32'S., 118° 17'E. Area C. Several specimens, others determined by K. Amaoka).

**Psettina gigantea** Amaoka, 1963

No figure voucher. Our specimens, determined by K. Amaoka & D.A. Hensley (e.g. CSIRO CA2533 19° 29'S., 115° 59'E.). Area C.

**Psettina iijimae** (Jordan & Starks, 1904)

No figure voucher. Our material determined by PK (e.g. CSIRO B.2989 from 20° 03'S., 115° 57'E.). Area C.

**POECILOPSETTIDAE****Poecilopsetta colorata** Günther, 1880

det. PK. NTM S.10760-008 (TGT1746) 08° 58'S., 116° 34'E. Area B.

**Poecilopsetta praelonga** Alcock, 1894

No figure voucher. Our material determined by K. Sakamoto (e.g. NTM S.10742-001 (no field number); also WAM P.26208-021 from 18° 22'S., 118° 03'E.). Areas A, B, C.

**RHOMBOSOLEIDAE****Psammodiscus ocellata** (Günther, 1880)

det. M. Arai. CSIRO CA1581 20° 53'S., 115° 48'E. Area C.

## SAMARIDAE

### *Samaris cristatus* Gray, 1831

det. K. Sakamoto. Specimen lost (no field number) (Conspecific Survey material determined by PK is WAM P.26200-007 from 19° 50'S., 117° 15'E.). Areas B, C.

### *Samariscus huysmani* Weber, 1913

det. S. C. Shen. BMNH 1984.1.1.108 (PJPW27) 08° 50'S., 114° 14'E. Area A.

## SOLEIDAE

### *Aesopia cornuta* Kaup, 1858

(A) det. PK. CSIRO CA2097 13° 16'S., 128° 21'E. (B) det. G. Leyland CSIRO CA1494 from 18° 34'S., 119° 53'E. Areas A, C. Note: Our single specimen (B) was paler in colour, had fewer body bars (11-12) and fewer fin rays D I + 65. A 51.

### *Aseraggodes cyaneus* (Alcock, 1890)

det. PK & L.-C. Shen. NTM S.10745-005 (TGT1889) 08° 30'S., 117° 46'E. Area B.

### *Dexillus muelleri* (Steindachner, 1879)

det. CSIRO. CSIRO CA2102 11° 52'S., 136° 10'E. Area C.

### *Pardachirus pavoninus* (Lacepede, 1802)

det. PK. LPPL JIF147 (TGT1030) 08° 43'S., 115° 16'E. Areas A, B, C.

### \* *Phyllichthys punctatus* McCulloch, 1916

This temperate water species, was occasionally obtained in the southern area of the Survey region (e.g. CSIRO CA1515). Area C. *Diagnosis*: Mouth slightly contorted; caudal fin joined to anal and dorsal fins; ventral fin on eyed side joined broadly to anal fin. Body and head on eyed side brown, densely marbled and spotted white or grey, fins brown.

### *Zebrias cancellatus* (McCulloch, 1916)

det. PK. CSIRO CA1517 19° 38'S., 119° 31'E. Area C.

### *Brachirus annularis* Fowler, 1934

det. AMS. AMS 1.22828-015 19° 01'S., 117° 12'E. Area C.

### *Zebrias craticulus* (McCulloch, 1916)

det. PK. CSIRO CA1533 19° 14'S., 118° 48'E. Area C.

### *Zebrias quagga* (Kaup, 1858)

det. PK. CSIRO CA1345 17° 25'S., 121° 50'E. Area C. This species was rarely obtained.

## CYNOGLOSSIDAE

### *Cynoglossus abbreviatus* (Gray, 1834)

No figure voucher. Our material (e.g. NTM S.11116-003 (TGT1927) from 01° 24'S., 100° 20'E.) determined by PK. Area A.

### *Cynoglossus arel* (Bloch & Schneider, 1801)

det. PK. NTM S.11028-002 (TGT2585) 07° 58'S., 109° 20'E. Areas A, B.

### *Cynoglossus kopsii* (Bleeker, 1851)

No figure voucher. Our material (CSIRO B.2987 from 20° 03'S., 115° 57'E.) determined by PK. Area C.

### \* *Cynoglossus macrophthalmus* Norman, 1926

No figure voucher. Our material (e.g. CSIRO CA2074 from 10° 50'S., 131° 07'E.) determined by PK. Area C. *Diagnosis*: Three lateral lines on eyed side; caudal with 10 rays; lateral line with 100 or more tubed scales; only one nostril on eyed side.

### *Paraplagusia longirostris* Chapleau, Renaud & Kailola, 1991

det. PK. CSIRO CA2094 13° 18'S., 128° 21'E. Area C. Paratype.

### \* *Cynoglossus sp. cf ogilbyi* Norman, 1926

No figure voucher. CSIRO specimens CA2109 from 11° 53'S., 131° 15'E., determined by PK. Area C. *Diagnosis*: 8-9 caudal fin rays. No lateral line on blind side, 2 on eyed side. Scales ctenoid on eyed side, cycloid on blind side. Two nostrils on eyed side; corner of mouth nearer to snout tip than to gill opening. D 117-122. A 92-96. Tr. 9-10. L. lat. 76-78. Eye 7-8.3 in HL; snout 3-3.3 in HL.

### \* *Cynoglossus sp. cf heterolepis* Weber, 1910

No figure voucher. Our material (e.g. CSIRO CA2718 from 09° 16'S., 135° 00'E.) determined by PK. Area C. *Diagnosis*: 10 caudal fin rays. No lateral line on blind side, 3 lateral lines on eyed side. Scales ctenoid on both sides of body. Second nostril on eyed side between eyes; corner of mouth much nearer to snout tip than to gill opening. D 112. A 88. Tr. above 12. L. lat. 72. Head and body dark brown or charcoal (eyed side), front of head and anterior dorsal fin rays white; fins black, edges white; gill cavity black.

### *Paraplagusia bilineata* (Bloch, 1787)

det. PK. AMS 1.21943-019 11° 24'S., 134° 54'E. Area C.

**TRIACANTHODIDAE**

**Atrophacanthus japonicus** (Kamohara, 1941)

det. TGT. USNM 265190 (TGT2289) 05° 35'S., 102° 25'E. Area A.

**Halimochirurgus centriscooides** Alcock, 1899

det. J.C. Tyler. BMNH 1984.1.1.109 (TGT (PJPW) 470) 07° 55'5., 109° 42'E. Area A.

**Macrorhamphosodes platycheilus** Fowler, 1934

det. TGT. NTM S.10998-009 (TGT2516) 01° 25'S., 100° 19'E. Area A.

**Triacanthodes ethiops** Alcock, 1894

det. TGT. NTM S.10761-003 (TGT3143) 08° 27'S., 117° 47'E. Areas B, C.

**Tydemanina navigatoris** Weber, 1913

det. J.C. Tyler. BMNH 1984.1.1.110 (TGT (PJPW) 515) 08° 02'5., 109° 03'E. Areas A, B.

**TRIACANTHIDAE**

**Pseudotriacanthus strigilifer** (Cantor, 1849)

det. TGT. LPPL JIF148 (TGT3334) 10° 18'5., 120° 22'1. Areas A, B, C.

**Triacanthus biaculeatus** (Bloch, 1786)

det. CSIRO. CSIRO CA1267 12° 43'5., 130° 00'E. Areas B, C.

**Triacanthus nieuhoofii** Bleeker, 1851

det. TGT. LPPL JIF149 (TGT2500) 00° 19'S., 99° 38'E. Areas A, B, C.

**Trixiphichthys weberi** (Chaudhuri, 1910)

det. TGT. LPPL JIF150 (TGT2547) 03° 07'S., 101° 20'E. Areas A, B, C.

**BALISTIDAE**

**Abalistes stellatus** (Anonymous, 1798)

det. TGT. LPPL JIF153 (TGT2286) 05° 07'S., 104° 39'E. Areas A, B, C. This species is sometimes called *A. stellaris* (Bloch & Schneider, 1801) (Parenti, 2021).

**Balistapus undulatus** (Park, 1797)

det. J.B. Hutchins on photo. LPPL JIF154 (TGT1036) 08° 10'S., 114° 54'E. Areas A, B.

**Balistoides conspicillum** (Bloch & Schneider, 1801)

det. TGT. Specimen lost. (TGT1349) 08° 31'S., 115° 32'E. Areas A, B, C.

**Balistoides viridescens** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF157 (TGT2262) 05° 13'S., 104° 38'E. Areas A, B.

**Canthidermis maculata** (Bloch, 1786)

det. TGT. BPBM 29346 (TGT1489) 08° 57'S., 116° 26'E. Area B. This is a juvenile specimen.

**Melichthys indicus** Randall & Klausewitz, 1973

det. TGT. BPBM 29337 (TGT2407) 00° 35'N., 97° 55'E. Area A.

**Odonus niger** (Rüppell, 1836)

det. TGT. LPPL JIF155 (TGT2266) 06° 13'S., 104° 38'E. Areas A, B.

**Pseudobalistes flavimarginatus** (Rüppell, 1829)

det. TGT. Specimen lost. (TGT3290) 10° 55'S., 122° 43'E. Areas A, B.

**Pseudobalistes fuscus** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF156 (TGT3240) 09° 01'S., 116° 18'E. Areas A, B, C.

**Rhinecanthus aculeatus** (Linnaeus., 1758)

det. TGT. LPPL JIF158 (TGT1014) 08° 43'S., 115° 16'E. Area B.

**Sufflamen fraenatum** (Latreille, 1804)

det. TGT. LPPL JIF159 (TGT2415) 00° 35'N., 97° 55'E. Areas A, B, C.

**Xanthichthys caeruleolineatus** Randall, Matsuura & Zama, 1978

det. TGT. BPBM 29340 (TGT (PJPW) 406) 06° 12'S., 104° 41'E. Area A.

**Xanthichthys lineopunctatus** (Hollard, 1854)

det. J.B. Hutchins. WAM P.26292-001 17° 20'S., 121° 04'E. Area C.

**MONACANTHIDAE**

**Acreichthys tomentosus** (Linnaeus, 1758)

det. J.B. Hutchins. WAM P.28199-001 (TGT1281) 08° 46'S., 115° 10'E. Area B.

**Aluterus monoceros** (Linnaeus, 1758)

det. TGT. LPPL JIF151 (TGT2261) 06° 13'S., 104° 38'45"E. Areas A, B, C.

**Aluterus scriptus** (Osbeck, 1765)

det. TGT. LPPL JIF152 (TGT3252) 09° 01'S., 116° 18'E. Areas A, B.

**Anacanthus barbatus** Gray, 1830

det. PK. Specimen lost (no field number) (Conspecific material CSIRO CA1418, from 20° 16'S., 116° 02'E.). Areas A, C.

**Cantherhines fronticinctus** (Günther, 1867)

det. J.B. Hutchins. WAM P.28198-001 (TGT2336) 03° 24'S., 100° 33'E. Area A.

**Cantherhines pardalis** (Rüppell, 1837)

det. J.B. Hutchins. WAM P.25826-008 21° 42'S., 114° 17'E. Areas B, C.

**Chaetodermis penicilligerus** (Cuvier, 1816)

det. CSIRO. Specimen lost (no field number). Area C.

**Eubalichthys caeruleoguttatus** Hutchins, 1977

det. CSIRO. CSIRO CA1272 19° 16'S., 118° 02'E. Area C.

**Monacanthus chinensis** (Osbeck, 1765)

det. CSIRO. WAM P. 2700-001 19° 38'S., 119° 31'E. Area C.

**\*Paramonacanthus pusillus** (Rüppell, 1829)

No figure voucher. A single specimen from 20° 03'S., 115° 57'E. (WAM P.26565-001) determined by J.B. Hutchins. Area C.

*Diagnosis:* D. I; 29. A. 28. Eye 3 in HL. Two rows of downwardly-directed spines on anterior face of dorsal spine; body scales with 4 or 5 spinules arising directly from basal plate; pelvic spine movable. Four dusky bands along body, dark checks below bases of dorsal and anal fins; 2 faint bands across caudal fin which sometimes upper lobe produced into a short filament; pelvic fin rudiment moveable.

**Arotrolepis filicauda** (Günther, 1880)

det. J.B. Hutchins. WAM P.26185-001 20° 52'S., 115° 10'E. Area C.

**Paramonacanthus oblongus** (Temminck & Schlegel 1850)

det. J.B. Hutchins. WAM P.26273-007 17° 15'S., 121° 38'E. Areas A, C. Body depth and colour pattern variable with size and sex.

**Pseudalutarius nasicornis** (Temminck & Schlegel, 1850)

det. TGT. BPBM 29345 (TGT1807) 08° 48'S., 116° 43'E. Areas A, B.

**Pseudomonacanthus elongatus** Fraser-Brunner, 1940

det. J.B. Hutchins. WAM P.26190-004 20° 35'S., 116° 15'E. Area C.

**Pseudomonacanthus macrurus** (Bleeker, 1856)

det. J.B. Hutchins on photo. BPBM 29344 (TGT961) 08° 30'S., 116° 42'E. Areas A, B.

**Pseudomonacanthus peroni** (Hollard, 1854)

det. CSIRO. CSIRO CA2203 20° 15'S., 115° 56'E. Areas B, C.

**Thamnaconus hypargyreus** (Cope, 1871)

det. J.B. Hutchins. WAM P. 26998-001 (no field number). (Conspecific Survey material determined by CSIRO: CSIRO CA3623 from 19° 52'S., 116° 39'E.). Area C.

**Thamnaconus modestoides** (Barnard, 1927)

det. J.B. Hutchins. WAM P.26265-002 17° 08'S., 121° 00'E. A rare species in Area C.

**Thamnaconus striatus** (Kotthaus, 1979)

det. J.B. Hutchins. WAM P.27001-001. 09° 52'S., 129° 12'E. (Conspecific Survey material determined by J.B. Hutchins: WAM P.26222-002 from 16° 50'S., 121° 01'E.). Areas B, C.

**Thamnaconus tessellatus** (Günther, 1880)

det. J.B. Hutchins. CSIRO CA2205 09° 52'S., 129° 12'E. Areas B, C.

**OSTRACIIDAE****Lactoria cornuta** (Linnaeus, 1758)

det. CSIRO. CSIRO CA2221 20° 08'S., 117° 03'E. Areas A, B, C.

**Lactoria diaphana** (Bloch & Schneider, 1801)

det. D. Clarke on photo. CSIRO CA2220 20° 10'S., 115° 15'E. Area C.

**Lactoria fornasini** (Bianconi, 1846)

det. PK and D. Clarke. NTM S.10744-008 (TGT981) 08° 30'S., 116° 42'E. Areas B, C.

**Ostracion cubicum** Linnaeus, 1758

det. K. Matsuura. LPPL JIF160 (TGT1002) 08° 43'S., 115° 16'E. Areas B, C.

**Ostracion nasus** Bloch, 1785

det. K. Matsuura on photo. Specimen lost (no field number). Areas A, C.

**Ostracion rhinorhynchus** Bleeker, 1851

det. K. Matsuura on photo. Specimen lost (no field number). Areas A, B, C.

**Tetrosomus gibbosus** (Linnaeus, 1758)

det. TGT. LPPL JIF161 (TGT2448) 00° 21'N., 98° 38'E. Areas A, B, C.

**Tetrosomus reipublicae** (Whitley, 1930)

det. TGT. NTM S.10995-004 (TGT2611) 08° 33'S., 114° 31'E. Areas A, B, C.

**TRIODONTIDAE****Triodon macropterus** Lesson, 1829

det. CSIRO. CSIRO CA801 09° 52'S., 129° 12'E. Areas B, C.

**TETRAODONTIDAE****Tylerius spinosissimus** (Regan, 1908)

det. G. Hardy. CSIRO CA1152 09° 52'S., 129° 12'E. Area C.

**Feroxodon multistriatus** (Richardson, 1854)

det. CSIRO. CSIRO CA1506 17° 50'S., 121° 41'E. Area C.

**Arothron hispidus** (Linnaeus, 1758)

det. K. Matsuura on photo. Specimen lost. Areas A, B.

**Arothron immaculatus** (Bloch & Schneider, 1801)

det. TGT. LPPL JIF166 (TGT2227) 06° 13'15"S., 105° 44'E. Areas B, C.

**Arothron manilensis** (Marion de Procé, 1822)

det. J. Randall. CSIRO CA2234 20° 28'S., 115° 32' E. Area C.

**Arothron stellatus** (Anonymous, 1798)

Two specimens selected to record variations: (A) det. TGT. LPPL JIF167 (TGT2268) 06° 07'S., 104° 39'E. (B) det. TGT. LPPL JIF165 (TGT1045) 08° 43'S., 115° 16'E. Areas A, B, C.

**Arothron caeruleopunctatus** Matsuura, 1994

det. K. Matsuura on photo. Specimen lost. Area B.

**Canthigaster compressa** (Marion de Procé, 1822)

det. PK. NTM S.10749-005 (TGT1816) 08° 48'S., 116° 43'E. Area B.

**Canthigaster axiologus** Whittler, 1931

det. PK. NTM S.10747-001 (TGT3312) 10° 18'S., 120° 22'E. Areas B, C.

**Canthigaster investigatoris** (Annandale & Jenkins, 1910)

No figure voucher. Gerry Allen tentatively determined our specimens PJPW141A and PJPW184A (BMNH 1984.1.1.111 and 1984.1.1.112) from 08° 49'S., 114° 30'E. Area A.

**Canthigaster rivulata** (Temminck & Schlegel, 1850)

det. PK. CSIRO CA2769 20° 24'S., 115° 44'E. Area C. All of our material displayed the barred caudal fin pattern.

**Chelonodontops patoca** (Hamilton, 1822)

det. CSIRO. CSIRO CA2768 11° 14'S., 130° 37'E. Area C.

**Lagocephalus cheesemanii** (Clarke, 1897)

det. PK. NMNZ P.015095 (TGT2117) 08° 46'S., 115° 10'E. Areas A, B.

**Lagocephalus inermis** (Temminck & Schlegel, 1850)

det. TGT. LPPL JIF162 (TGT2502) 00° 19'S., 99° 38'E. Areas A, B, C.

**Lagocephalus lagocephalus** (Linnaeus, 1758)

det. PK. NTM S.10740-001 (TGT1651) 08° 57'S., 116° 17'E. Areas A, B.

**Lagocephalus lunaris** (Bloch & Scheider, 1801)

det. TGT. LPPL JIF163 (TGT1027) 08° 43'S., 115° 16'E. Areas A, B, C.

**Lagocephalus sceleratus** (Gmelin, 1789)

det. G. Hardy. NMNZ P.015091 (TGT2559) 03° 07'S., 101° 20'E. Areas A, B, C.

**Lagocephalus spadiceus** (Richardson, 1845)

det. TGT. LPPL JIF164 (TGT2490) 00° 04'S., 99° 01'E. Areas B, C.

**Sphoeroides pachygaster** (Müller & Troschel, 1848)

det. G. Hardy. AMS 1.22807-017 18° 32'S., 118° 17'E. Areas A, B, C.

**Torquigener brevipinnis** (Regan, 1903)

det. G. Hardy. NMNZ P.014787 (TGT2267) 06° 07'S., 104° 39'E. Areas A, B.

**\*Torquigener hicksi** Hardy, 1983No figure voucher. Graham Hardy determined our material (e.g. NMNZ P.015094 (TGT1870) from 08° 58'S., 116° 13'E.). Area B, C. *Diagnosis*: spines on dorsal surface of body moderately sparse; few short spines but no papillae on front margin of and overlapping gill opening. Pale spots and dots on back, dark spots and brownish grey markings on cheeks and sides. Caudal peduncle length 3.8-4.3 in SL; interorbital 12.8 in SL.**Torquigener pallimaculatus** Hardy, 1983

det. G. Hardy. CSIRO CA2214 20° 15'S., 115° 59'E. Area C.

**Torquigener parcuspinus** Hardy, 1983

det. G. Hardy. NMNZ P.015092 (TGT2226) 06° 13'15"S., 105° 44'E. Areas A, B, C.

**Torquigener tuberculiferus** (Ogilby, 1912)

det. G. Hardy. NMNZ P.015093 (TGT1335) 08° 46'S., 118° 17'E. Area B.

**\*Torquigener whitleyi** (Paradice, 1927)

No figure voucher. PK determined other material from Area C (e.g. NTM S.11084-001 from 11° 40'S., 141° 48'E). Area C.  
*Diagnosis*: body before dorsal fin base densely spined; no papillae or spines overlapping gill opening edge. Back spotted dark brown with few thin oblique pale lines extending from midline of back down and forward. Caudal peduncle length 3.4-4.2 in SL.

**Torquigener gloerfelti** Hardy, 1984

det. G. Hardy. NMNZ P.014790 (TGT1392) 08° 46'S., 115° 02'E. Areas A, B. Holotype.

**Javichthys kailolae** Hardy, 1984

det. G. Hardy. NTM S.11004-002. (TGT2574) 07° 59'S., 108° 58'E. Area A. Paratype.

**DIODONTIDAE****Chilomycterus reticulatus** (Linnaeus, 1758)

Our material (e.g. AMS I. 22555-001 (TGT1370) from 08° 46'S., 115° 02'E.) determined by Jeff Leis who also determined our photographed specimen (B) TGT1657 (AMS I. 23671-001) from 08° 57'S., 116° 17'E. The young of *C. reticulatus* (our specimen TGT1370) are spotted over head, back and fins, these spots disappearing with age or grouping into vertical body bars (J. Leis, pers. comm., 1984). (A) Areas A, B.

**Cyclichthys hardenbergi** (de Beaufort, 1939)

det. J. Leis. AMS I. 23707-001. 11° 04'S., 130° 37'E. Area C.

**Cyclichthys orbicularis** (Bloch, 1785)

No figure voucher. Our specimen determined by J. Leis (e.g. AMS I. 23670-001 (TGT1509) 08° 57'S., 116° 26'E.). Areas B, C.

**Cyclichthys spilostylus** (Leis & Randall, 1982)

det. J. Leis on photo. LPPL JIF208 (TGT1656) 08° 57'S., 116° 17'E. Areas A, B, C.

**Diodon holocanthus** Linnaeus, 1758

det. TGT. LPPL JIF168 (TGT2301) 03° 24'S., 100° 33'E. Areas A, B, C.

**Diodon hystrix** Linnaeus, 1758

det. TGT. LPPL JIF169 (TGT2290) 04° 07'S., 101° 04'E. Areas A, B.

**Lophodiodon calori** (Bianconi, 1854)

det. PK. LPPL JIF170 (TGT3328) 10° 18'S., 120° 22'E. Areas B, C.

**Tragulichthys jaculiferus** (Cuvier, 1818)

det. J. Leis on photo. CSIRO CA2243. 11° 53'S., 131° 15'E. Area C.



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