

FISH COLLECTED DURING THE CORINDON II AND IV EXPEDITIONS

by

P. FOURMANOIR ¹⁾

INTRODUCTION

The check-list of the fish collected during the CORINDON expeditions (COR. II: 20 sampling stations in the Makassar Strait; COR. IV: 7 stations in Piru and Ambon Bay in the Moluccas) ²⁾ is composed out of 110 species. Most of them are coming from depths between 250 m and 600 m; a dozen of species were found at less deep stations; two Apodes, of which one is the very rare *Promyllantor*, were collected at a 1000 m depth.

The Ophidiiformes, the Pleuronectiformes and the Peristediidae are making a very interesting collection because of their great number of species.

Among the Percophidae, *Bembrops filifera* is reported for the first time outside its location in Hawaii; *Acanthaphrites grandisquamis* was known before only in the Arafura Sea and in the south of the China Sea. One will notice the big size of the *Polyipnus spinifer* and *Astronesthes luicifer* specimens.

The collection has been divided between the National Museum of Natural History of Paris and the Lembaga Oseanologi Nasional of Jakarta, excepting two or three species represented by a single specimen. So the only specimen of *Branchiostegus* is in Paris, while the rare *Psychrolutes inermis* is in Jakarta.

¹⁾ Marine biologist from GRSTOM, Laboratoire d'ichtyologie generale du Museum National d'Histoire Naturelle, 57, rue Cuvier, Paris, 75005.

²⁾ The detailed check-list of the stations can be found in the Report on the Corindon Cruises by M.K. MOOSA.

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HALOSAURIDAE

Aldrovandia mediorostris (Gunther)

COR. II; st. 280: 1 sp. 430 mm.

Inf. G.R. 18. Fins yellowish.

Aldrovandia rostrata (Gunther)

COR. II; st. 280: 1 sp. about 420 mm (the posterior part of the tail is broken).

Inf. G.R. 14. Fins dark.

ALEPOCEPHALIDAE

Alepocephalus (Lloydiella) bicolor Alcock

COR. IV; st. III 1: 2 sp. 154, 170 mm; st. III 2: 1 sp. 210 mm.

D. 21; A 28; 1. L. 63 (sp. 210 mm).

Alepocephalus (Lloydiella) sp.

COR. II; st. 280: 1 sp. 270 mm; st. 281: 1 sp. 221 mm.

D. 22-24; A, 30-32; P. 10; 1. L. 86-90; inf. G.R. 11.

The species has similarities to *Conocara macropterus* (Vaillant 1888); (D. 19; A. 34; P. 9; 1. L. 85).

ARGENTINIDAE

Nansenia sp.

COR. II; st. 276; 1 sp. 180 mm.

D. 10; A. 8; P. .15; inf. G.R. 17 - Height of body 24 mm, head length 40. mm.

Related to *N. ardesiana* Jordan & Thompson, from Japan.

CHLOROPHTALMIDAE

Chlorophtalmus albatrossis Jordan & Starks

COR. IV; st. IV 1: 1 sp. 145 mm; st. V 2: 1 sp. 76 mm.

1. L. 55-56; inf. G.R. 17.

Chlorophtalmus sp.

COR. IV; st. V 1: 1 sp. 69 mm.

D. 10; A. 8; P. 18. 1. L. 45; inf. G.R. 16 - Snout length 4.1 mm, diameter of orbit 5.5 mm.

The tips of the dorsal and ventral fins are black. Superior caudal lobe with the first outer ray transparent, followed by two black rays. The two outer inferior caudal rays are only half-length black.

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Chlorophthalmus acutifrons Hiyama

COR. II; st. 271: 1 sp. 157 mm. — COR. IV; st. V 2: 2 sp. 120, 174 mm.
1. L. 52-53; inf. G.R. 14.

ASTRONESTHIDAE

Astronesthes lucifer Gilbert

COR. IV; st. I 2: 1 sp. 137 mm.

D. 12; A. 19; P. 6; V. 7; G.R. 18 — Height of body 14; head length 20.5; orbit 6; upper jaw 14.5; interorbital width 7; barbel 12; snout length 4; tip of snout to dorsal origin 51, to ventrals 44.5 origin of D. to base of caudal fin 48.

Photophores: Op 2, Br 18; Is 8, PV 21 VAV 19, AC 2 + 7, C4 (ventral row); OV 17, VAL 21 (lateral row).

Maxillary comblike teeth 24, mandibular teeth 8.

MYCTOPHIDAE

Diaplys suborbitalis Weber

COR. IV; st. I 2: 2 sp. 63, 74 mm (5).

The two specimens (typical S.E. Asia form) have 29 gillrakers (10 + 1 + 18). Comments have been made (chiefly from Japan) of special abundance in continental waters and paucity far at sea (KAWAGUCHI & SHIMIZU 1978). Adult females have not been found near the surface.

Diaplys garmani Gilbert

COR. IV; st. IV 1: 4 ♀ 56, 59, 61, 63 mm; 2 ♂ 55, 56 mm.

NEOSCOPELIDAE

Neoscopelus porosus Arai

COR. IV; st. I 1: 2 sp. 120, 132 mm; st. III 1: 3 sp. 73, 89, 104 mm;
st. III 2: 2 sp. 120, 130 mm.

Neoscopelus microchir Matsubara

COR. II; st. 274: 3 sp. 70, 75, 120 mm.

STERNOPTYCHIDAE

Polyipnus spinifer Borodinula

COR. IV; st. IV 1: 4 sp. 51, 54, 66, 69 mm.

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CEPOLIDAE

Sphenanthias pectinifer Myers

COR. II; st. 273: 1 sp. 102 mm, st. 271: 1 sp. 98 mm.

D. 27; 1. L. 28; 32 ser. of scales; G.R. 18 + 27.

Sphenanthias sp.

COR. II; st. 271: 1 sp. 47 mm.

D. 25 (III, 22); A. I, 15; P. 21; 1. L. about 33; tot. G.R, 40.

The dorsal fin has a black margin between the first and the sixth ray. The species differs from *S. sibogae* in the coloration of the dorsal and more scales.

CHAMPSODONTIDAE

Champsodon vorax Gunther

COR. II; st. 267: 10 sp. 73-90 mm.

SYNODONTIDAE

Harpadon microchir Gunther

COR. IV; st. 11:1 sp. 275 mm; st. I 2: 2 sp. 250, 280 mm.

Saurida longimanus Norman

COR. II; st. 295: 1 sp. 114 mm.

Saurida tumbil (Bloch)

COR. II; st. 201: 1 sp. 430 mm.

PEGASIDAE

Pegasus papilio Gilbert

COR. II; st. 292: 1 sp. 42 mm.

ZEIDAE

Cyttopsis cypho (Fowler) COR.

II; st. 271: 4 sp. 70 mm.

DIRETMIDAE

Diretmus argenteus Johnson

COR. II; st. 276: 1 sp. 90 mm.

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TRACHICHTHYIDAE

Paratrachichthys latus Fowler

COR. II; st. 267: 3 sp. 35, 38, 39 mm.

D. III, 15; A. II, 9; P. 12.

Hoplostethiis sp.

COR. II; st. 271: 1 sp. 90 mm.

D. VI, 13; A. III, 10; P. 14; G.R. 20.

The average G.R. number is 24 in *H. mediterraneus*, the Makassar specimen has only 20 gill rakers.

POLYMIXIIDAE

Polymixia berndti Gilbert

COR. II; st. 271; 1 sp. 103 mm.

D. V, 30; A. IV, 15; 1. L. 33; scales ser. 60; G.R. 4 + 1 + 7.

CHEILODIPTERIDAE

Bathysphyraenops declivifrons Fedoryako

COR, IV; st. I 1: 1 sp. 54 mm; st. I 2: 2 sp. 54 mm, 2 sp. 58, 59 mm.

APOGONIDAE

Apogon catalai Fourmanoir

COR. II; st. 292: 1 sp. 42 mm.

Apogon quadrifasciatus Cuvier

COR. II; st. 203: 2 sp. 64 mm.

Jaydia smithi Kotthaus

COR. II; st. 295: 1 sp. 50 mm.

Jaydia queketti (Gilchrist)

COR. II; st. 203: 3 sp. 72, 82, 100 mm.

Synagrops japonicus Steindacmier

COR. II; st. 271: 2 sp. 88, 92 mm - COR. IV; st. V 1: 3 sp. 60, 63, 67 mm;
st. V 2: 1 sp. 100 mm.

Synagrops philippinensis (Gunther)

COR. II, st. 273: 1 sp. 66 mm — COR. IV; st, V 1: 2 sp. 61, 66 mm.

SERRANIDAE

Chelidoperca hirundinacea (Valenciennes)

COR. II; st. 273: 1 sp. 63 mm.

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Pseudanthias (elongtus Franz ?)

COR. II; st. 206: 1 sp. 79 mm.

Plectranthias japonicus Steindachner

COR. II; st. 273: 1 sp. 62 mm — COR. IV; st. V 2: 1 sp. 59 mm.

NEMIPTERIDAE

Scolopis tosensis Kamohara COR.

II; st. 273: 1 sp. 52 mm.

LUTJANIDAE

Tropidinius argyrogrummicus Valenciennes

COR. II; st. 271: 2 sp. 82, 175 mm; st. 273: 3 sp. 125, 143, 163 mm.

EMMELICHTHYIDAE

Emmelichthys nitidus nitidus Richardson

COR. II; st. 273: 2 sp. 112, 113 mm

D. XI, I 10; A. III, 9; 1. L. 89; G.R. 10 + 1 + 25.

BRANCHIOSTEGIDAE

Branchiostegus wardi Whitley

COR. II; st. 273: 1 sp. 164 mm.

NOMEIDAE

Cubiceps squamiceps (Lloyd)

COR. II; st. 246: 1 sp. 136 mm.

Ariomma indica (Day) COR. II; st.

240: 1 sp. 173 mm.

GEMPYLIDAE

Neoepinnula orientalis (Gilchrist & Bonde)

COR. II; st. 274: 1 sp. 153 mm.

OPHIDIIDAE (NEOBYTHITINAE)

Glyptophidium argenteum Alcock

COR. II; st. 240: 10 sp. 210-250 mm.

Glyptophidium sp.

COR. II; st. 240: 12 sp.

D. 142-148; A. 114-122; P. 22-23; inf. G.R. 16-17, tot. G.R. 24-25.

Neobythites steatiticus Alcock

COR. II; st. 273: 1 sp. 132 mm.

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Homostolus acer Smith & Radcliffe

COR. IV; st. I 1 : 2 sp. 155, 160 mm; st. I 2 : 1 sp. 147 mm.

Monomitopus garmani (Smith & Radcliffe)

COR. II; st. 200: 1 sp. 197 mm.

D. 97; P. 32; C. 8; tot, G.R. 22 (inf. 16).

Monomitopus sp.

COR. II; st. 240: 1 sp. 135 mm.

Neobythites longipes Smith & Radcliffe

COR. IV; st. I 2: 2 sp. 191, 192 mm.

Neobythites fasciatus Smith & Radcliffe

COR. II; st. 246: 2 sp. 25, 164 mm — COR. IV; st. I 2: 1 sp. 147 mm;
st. III 1: 1 sp. 150 mm.

Lamprogrammus macropterus Smith & Radcliffe

COR. II; st. 231: 1 sp. 460 mm (Head 100, Depth 100)

D. about 115; P. 21; C. 8; G.R. 16.

Dicrolene tristis Smith & Radcliffe

COR, II; st. 200: 2 sp. 125, 162 mm.

BYTHITIDAE (BYTHITINAE)

Dicplacanthopoma brunnea Smith & Radcliffe

COR. IV; st. IV 1: 1 sp. 168 mm.

CARAPIDAE (PYRAMODONTINAE)

Pyvamodon ventraMs (Smith & Radcliffe) COR,

II; st. 267: 1 sp. 120 mm.

PLATYCEPHALIDAE

Elates ransonetti (Steindachner)

COR. II; st. 203: 1 sp. 95 mm.

Platycephalus sculptus (Günther)

COR. II; st. 206: 1 sp. 115, 120 mm.

HOPlichthyIDAE

Hoplichthys prosemwn (Fowler)

COR. IV; st. V 2: 2 sp. 140, 149 mm.

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MUGILOIDIDAE

Parapercis alboguttata (Gunther)

COR. II; st. 267: 1 sp. 128 mm.

D. V, 22; A. 19; P. 18; 1. L. 63; G.R. 8 rud. + 13.

Palatine teeth absent, IVth dorsal spine the longest.

PERCOPHIDAE

Bembrops eaiMmucula Steindachner

COR. II; st. 267: 3 sp. 105, 125, 135 mm.

Bembrops filifera Gilbert

COR. II; st. 271: 1 sp. 165 mm.

D. VI, 15; A. 17; P. 27; 1. L. 65-66.

Chrionema chryseres Gilbert

COR. IV; st. V 2: 1 sp. 172 mm.

Acanthaphrites grandisquamis Gunther (Fig. 1-3)

COR. IV; st.-V 2: 3 sp. 79, 101, 124 mm.

D. V. 22-23: A. 28-29: P. 20-21; V. 6; 1. L. 34-36; depth 8. 2.

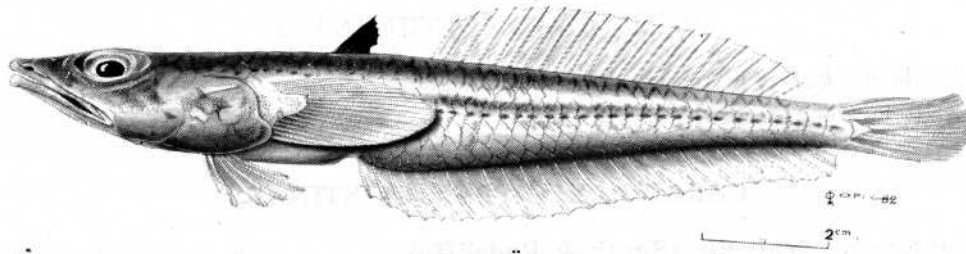


Figure 1. *Acanthaphrites grandisquamis* Gunther.
Lateral view. L.S. 124 mm.

Body moderately elongated. Snout short, notched and spinous. Maxillary reaching middle of eye. Opercular flap well developed, covering the origin of inferior pectoral rays. Upper margin with a strong spine. Maxillary teeth, 3-4 rows of about 56 villiform teeth. Each lateral portion of vomer with a small patch of 5-8 teeth.

Last dorsal ray small, last anal ray minute at a short distance of origin of caudal. Scales of lateral line with four or five deep indentations. The other scales, a little ctenoid, more or less square. Nine scales before dorsal origin. Cheeks scaly.

Coloration in formaline: First dorsal black, about a dozen of irregular, grey-olive cross bands, not extending beyond lateral line.

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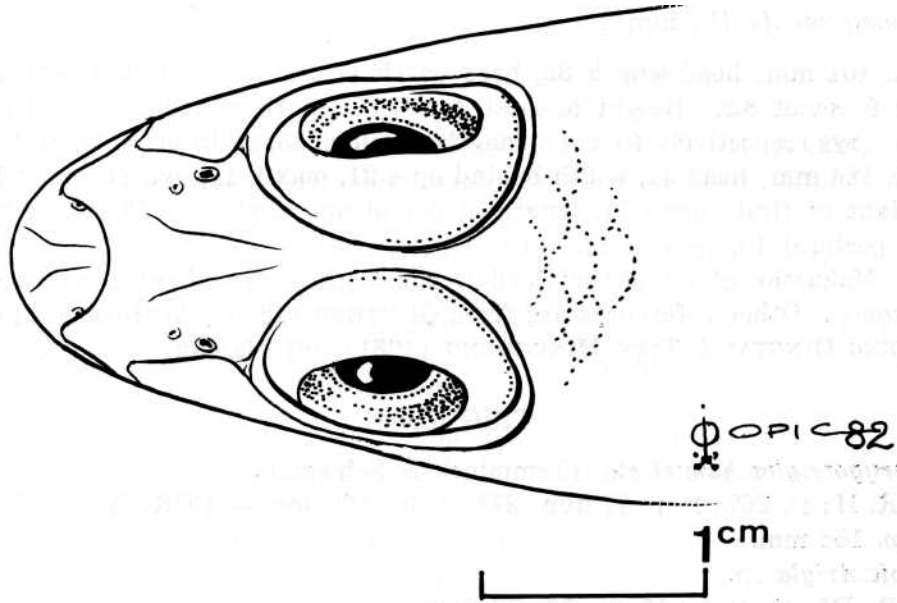


Figure 2. *Acanthaphrites grandisquamis* Günther.
Head, dorsal view.

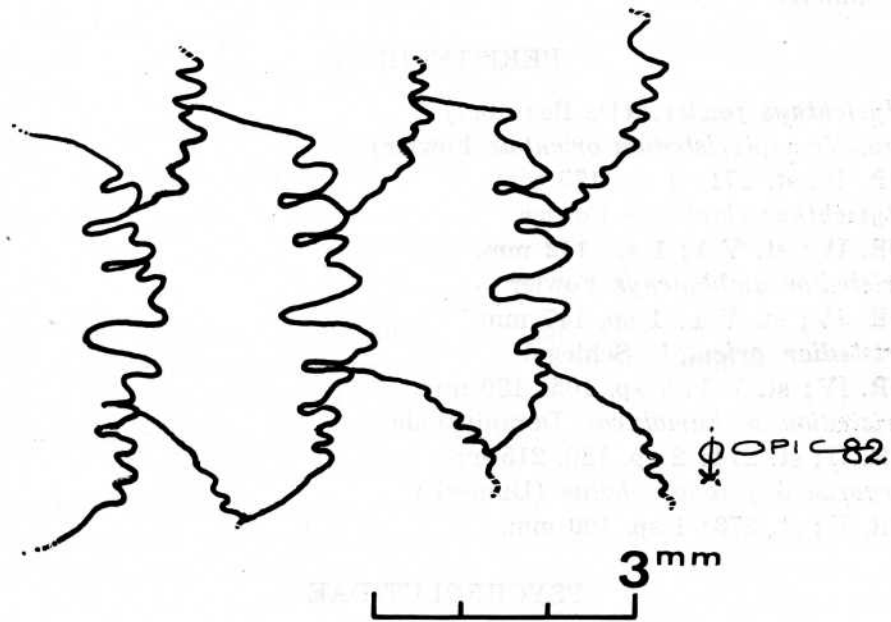


Figure 3. *Acanthaphrites grandisquamis* Günther.
12th, 13th and 14 th lateral line scales, left side.

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Measurements (in mm):

S.L. 101 mm; head length 32, head width behind eyes 15, maxillary 13, eye 9, snout 8.5. Height of first dorsal 9, length of middle dorsal and anal rays respectively 10 and 8, length of caudal 15, pectoral 14, ventral 10. S.L. 124 mm; head 41, width behind eyes 21, maxil. 18, eye 11, snout 11. Height of first dorsal 11, length of dorsal and anal rays 13, 10, caudal 20, pectoral 19, ventral 14.

Makassar Strait is the third localization of *Acanthaphrites grandisquamis*. Other references are from GUNTHER (1880), Arafura Sea and CHENG QINGTAI & TIAN MINGCHENG (1981), off Hainan.

TRIGLIDAE

Pterygotriglia hemisticta (Temminck & Schlegel)

COR. II; st. 267: 1 sp. 77 mm; 271: 1 sp. 120 mm — COR. IV; st. V 2: 1 sp. 155 mm.

Lepidotrigla sp.

COR. IV; st. V 1: 10 sp. 68-73 mm.

D. VIII, 11; A. 12; 1. L. 52 - 53; rostral spines a little diverging¹, as long as diameter of eye.

PERISTEDIIDAE

Satyrichthys fowleri (De Beaufort)

(syn. *Nemapteristedion orientate* Fowler)

COR. II; st. 271: 1 sp. 175 mm.

Satyrichthys clavilapis Fowler

COR. IV; st. V 1: 1 sp. 142 mm.

PeHstedion amblygenys Fowler

COR. IV; st. V 1: 1 sp. 147 mm.

Peristedion orientalis Schlegel

COR. IV; st. V 1: 7 sp. 105-130 mm.

PeHstedion pothumaluva Deraniyagala

COR. II; st. 214: 2 sp. 180, 215 mm.

Gargariscus pHonocephalus (Dumeril)

COR. II; st. 273: 1 sp. 100 mm.

PSYCHROLUTIDAE

Psychrolutes inermis (Vaillant)

COR. II, st. 214: 1 sp. (L.O.N. Ichthyological Laboratory, Jakarta).

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CEPHALACANTHIDAE

Cephalacanthus orientalis (Cuvier)

COR. II; st. 203: 1 sp. 52 mm.

SCORPAENIDAE

Pterois volitans Linne

COR. II; st. 295: 1 sp. 85 mm.

Dendrochirus bellus (Jordan & Hubbs)

COR. II; st. 203: 1 sp. 57 mm; st. 295: 1 sp. 90 mm.

Neocentropogon aeglefinus (Weber)

COR. II; st. 273: 3 sp. 64, 66, 73 mm.

Minous coccineus Alcock

COR. II; st. 295: 2 sp. 53, 79 mm.

Scorpaena sp.

COR. II; st. 295: 3 sp. 43, 71, 73 mm.

Setarches longimanus Alcock

COR. II; st. 267: 1 sp. 92 mm.

Setarches guentheri Johnson

COR. II; st. 269: 1 sp. 60 mm; st. 27: 2 sp. 59 mm; st. 273: 1 sp. 62 mm;

COR. IV; st. V 1: 35 sp. 36-52 mm.

Lioscorpius longiceps Gunther

COR. IV; st. V 2: 2 sp. 36, 38 mm.

Erisphex potti (Steindachner)

COR. IV; st. V 1: 1 sp. 30 mm.

URANOSCOPIBAE

Uranoscopus japonicus Houttuyn

COR. II; st. 267: 1 sp. 90 mm; st. 271: 1 sp. 200 mm.

Uranoscopus oligialepis Bleeker

COR. II; st. 295: 1 sp. 70 mm.

CALLIONYMIDAE

Synchiropus altivelis (Temminck & Schlegel)

COR. II; st. 271: 3 sp. 75, 90, 95 mm.

Callionymus octostigmatus Fricke

COR. II; st. 205: 3 sp. 25, 27, 43 mm.

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BOTHIDAE

Chascanopsetta lugubris Alcock

COR. IV; st. V 1: 1 sp. 200 mm; st. V 2: 1 sp. 148 mm.

Laeops gracilis Fowler

COR. IV; st. V 1: 2 sp. 97, 115 mm.

D. 109; A. 93; P. 14; 1. L. 98 (sp. 97 mm).

D. 104; A. 91; 1. L. 95 (sp. 115 mm).

Arnoglossus sp.

COR. II; st. 271: 2 sp. 150, 164 mm.

D. 110; A. 86; 1. L. 77; P. 21 (sp. 164 mm).

D. 107; A. 83; 1. L. 80; P. 15 (sp. 150 mm).

Arnoglossus elongatus Weber

COR. II; st. 271: 2 sp. 123, 125 mm.

D. 102; P. 12; 1. L. 65.

PLEURONECTIDAE

Poecilopsetta plinthus (Jordan & Starks)

COR. II; st. 271: 1 sp. 93 mm.

Poecilopsetta praelonga Alcock

COR. II; st. 271: 1 sp. 90 mm.

Samariscus huysmani Weber

COR. II; st. 215: 2 sp. 75, 92 mm.

Brachypleura novaezeekmdiae Giinther

COR. II; at. 203: 3 sp. 82, 85, 86 mm.

SOLEIDAE

Aseraggodes filiger Weber

COR. II; st. 203: 3 sp. 65 mm.

Achirus hartzfeldi Bleeker

COR. II; st. 258: 1 sp. 85 mm.

Heteromycteris hartzfeldi (Bleeker)

COR. II; st. 258: 1 sp. 85 mm.

Heteromycteris japonicus (Temminck & Schlegel)

COR. II; st. 258: 1 sp. 83 mm.

Zebrias zebra (Bloch)

COR. II; st. 203: 1 sp. 90 mm; st. 295: 1 sp. 235 mm.

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CYNOGLOSSIDAE

Symphurus sp.

COR. II; st. 269: 1 sp. 103 mm.

D. 87; Gaud. 13; 1. L. 90.

Apparently near *S. gilesi*.

Cynoglossus sp.

COR. II; st. 271: 1 sp. 122 mm.

D. 97; Caud. 10; middle 1. L. 76, 11 scales between the two 1. L.

Apparently near *C. cynoglossus*, but it is a little more elongated and dorsal and anal fins are much darker.

ONCHOCEPHALIDAE

Halieuta, stellata (Vahl.)

COR. II; st. 267: 1 sp. 90 mm; st. 273: 1 sp. 85 mm.

Dibranchius infranudus De Beaufort & Briggs

COR. II; st. 276: 1 sp. 52 mm.

CHAUNACIDAE

Choimmx fimbriatus Hilgendorf

COR. IV; st. I 2: 1 sp. 88 mm.

SYNAPHOBRANCHIDAE

Ilyophis brunneus Gilbert

COR. II; st. 231: 1 sp. 475 mm.

Total 1. L. pores 130, preanal 1. L. pores 34.

CONGRIDAE

Promyllantor pwpureus Alcock

COR. II; st. 281: 1 sp. 450 mm.

Bathymyrus japonicus

COR. II; st. 271: 2 sp. 300 mm.

Congrina sp.

COR. II; st. 271: 1 sp. 350 mm; st. 273: 1 sp. 380 mm.

SIMENCHELYDAE

Symenchelis parasiticus Gill

COR. II; st. 280: 1 sp. 165 mm

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MACROURIDAE

Coelorhynchus argus Weber

COR. IV; st. V 1: 1 sp. 118 mm.

Hymenocephalus striatissimtis Smith & Radcliffe

COR. IV; st. V 2: 3 sp. 110, 115, 125 mm.

Mataeocephalus nigrescens Smith & Radcliffe

COR. II; st. 240: 1 sp, 170 mm.

Coryphaenoides microps (Smith & Radcliffe)

COR. IV; st. I 1: 5 sp. 170 -190 mm; st. III 1: 3 sp.140, 150, 182 mm;

st. III 2: 3 sp. 210 mm.

Gadomus introniger Gilbert & Hubbs

COR. II; st. 280: 2 sp. 300, 390 mm.

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