ZOOLOGISCHE MEDEDEELINGEN

UITGEGEVEN DOOR

'S RIJKS MUSEUM VAN NATUURLIJKE HISTORIE

Deel XIII.	te LEIDEN	Aflevering 1—2.

I. — NOTE ON A COLLECTION OF FISHES FROM THE MOLUCCAS COLLECTED BY DR. F. KOPSTEIN.

BY F. P. KOUMANS.

This little collection was sent to the Leyden Museum January 20th 1925 by Dr. F. KOPSTEIN, who collected it on the isles Ambon, Haroekoe and Boeroe during 1922 and 1923.

It contains the following species:

Lutjanus argentimaculatus (Forsk.).

Lutjanus argentimaculatus Bleeker Atl. Ichth. VIII, p. 74.

Lutjanus argentimaculatus M. Weber Siboga Exp. Fische 1913, p. 252.

1 specimen $8^3/_4$ cm. Wae Memi Haroekoe Dec. 1923.

Ambassis buruensis Blkr.

Ambassis buruensis Bleeker Nat. Tijdschr. Ned. Ind. XI, 1856, p. 396.

Ambassis buroënsis Bleeker Atl. Ichth. VIII, p. 137.

Ambassis buruensis M. Weber & de Beaufort Fishes indo-austr. Arch. V, 1929, p. 417.

8 specimens 5—$7^3/_4$ cm. Wae Hatoe, Ambon Hitoe Febr. 1923.

1 specimen 4 cm. Ajer Larike, Ambon Hitoe March 17th 1923.

4 specimens $5^1/_2$—$7^1/_4$ cm. Wae Memi, Haroekoe Dec. 1923.

Ambassis urotaenia Blkr.

Ambassis urotaenia Bleeker Nat. Tijdschr. Ned. Ind. III, 1852, p. 257 Atl. Ichth. VIII, p. 135.

Ambassis urotaenia M. Weber & de Beaufort Fishes indo-austr. Arch. V, 1929, p. 404.

5 specimens 5—6 cm. Wae Hatoe, Ambon Hitoe Febr. 1923.

Apogon spec.

1 specimen 4 cm. with prey; bay of Ambon March 1922 without any trace of scales.

(30—IV—1930)

Kuhlia marginata (C. & V.).

Dules marginatus Cuvier & Valenciennes Hist. Nat. Poissons III 1829, p. 116; VII 1831, p. 474.

Moronopsis ciliatus Bleeker Atl. Ichth. VII, p. 120 (nec C. V.).

Kuhlia marginata M. Weber & de Beaufort Fishes indo-austr. Arch. V, 1929, p. 271.

2 specimens $6^1/_4$, $6^1/_2$ cm. Wae Hatoe, Ambon Hitoe Febr. 1923.

1 specimen $9^1/_2$ cm. Ajer Hatoe, Ambon Hitoe Febr. 1923.

4 specimens 2, $2^3/_4$, 8, $9^1/_4$ cm. Ajer Larike, Ambon Hitoe March 17th 1923.

2 specimens $7^1/_2$, 10 cm. Wae Memi, Haroekoe Dec. 1923.

Therapon cancellatus (C. & V.).

Datnia cancellata Cuvier & Valenciennes Hist. Nat. Poissons III 1829, p. 144.

Therapon (Datnia) cancellata Bleeker Atl. Ichth. VII, p. 116.

1 specimen $15^1/_2$ cm. Wae Memi, Haroekoe Dec. 1923.

This specimen is in its caracteristics standing between *Th. cancellatus* (C. V.) and *Th. rosenbergii* Blkr. which are probably the same species. See also DE BEAUFORT Bijdrage Dierk. 19e Afl. 1913, p. 118.

Therapon argenteus (C. & V.).

Datnia argentea Cuvier & Valenciennes Hist. Nat. Poissons III 1829, p. 139.

Therapon (Datnia) argenteus Bleeker Atl. Ichth. VII, p. 114.

2 specimens 9 cm. Wae Memi, Haroekoe Dec. 1923.

Toxotes jaculatrix (Pallas).

Toxotes jaculator Bleeker Atl. Ichth. IX, p. 4.

1 specimen $12^1/_2$ cm. Wae Memi, Haroekoe Dec. 1923.

Gobius (Glossogobius) giuris Ham. Buch.

Gobius (Glossogobius) giuris M. Weber Siboga exp. Fische 1913, p. 468.

3 specimens 5—$8^1/_2$ cm. Wae Hatoe, Ambon Hitoe Febr. 1923.

1 specimen 14 cm. Ajer Hatoe, Ambon Hitoe Febr. 1923.

1 specimen 5 cm. Ajer Larike, Ambon Hitoe March 17th 1923.

2 specimens $4^1/_4$, $6^1/_4$ cm. Wae Memi, Haroekoe Dec. 1923.

? *Gobius (Pseudogobius) javanicus* Blkr.

Gobius javanicus Bleeker Nat. Tijdschr. Ned. Ind. XI 1856, p. 88.

Gobius javanicus M. Weber Siboga exp. Fische 1913, p. 458.

6 specimens $2^1/_4$—$2^1/_2$ cm. Ajer Larike, Ambon Hitoe March 17th 1923.

2 specimens $4^1/_4$ cm. Wae Memi, Haroekoe Dec. 1923.

Gobius (Stenogobius) genivittatus C. & V.

Gobius genivittatus Cuvier & Valenciennes Hist. Nat. Poissons XII 1837, p. 64.

Gobius genivittatus Günther Fische der Südsee Journal Mus. Godeffroy XIII 1877, p. 170, t. 110, f. 2.

Gobius polyzona Bleeker Arch. neer. sc. ex. et nat. T. II 1867, p. 413; Recherches sur la faune de Madagascar 4e partie 1874, Leiden p. 55, t. 17, f. 1.

Gobius polyzona Sauvage Hist. Nat. des poissons, vol. XVI of Hist. de Madagascar par A. Grandidier 1891, p. 370, t. 40, f. 3.

2 specimens $5^3/_4$, 8 cm. Wae Memi, Haroekoe Dec. 1923.

These specimens agree with *G. genivittatus* in all points I could find, in comparing them with a specimen of *G. genivittatus* collected at Ceram of the British Museum, which MR. J. NORMAN kindly sent to me. They differ in some points from the description of *G. polyzona* given by Dr. BLEEKER in his works mentioned above.

The eye is 4 times in the length of the head, the maxillary $2^1/_2$ in the same length, extending only to the vertical from the anterior margin of the eye. The head is not quite violet colored, but shows only a broad vertical stripe from the eye to the margin of the prae-operculum behind the mouth [1]). A dark violet spot is on the base of each scale of the dorsal half of the body. Base of the pectoral above with a light spot (bluish) surrounded with dark violet [1]). The rays of the dorsal and anal fins are not colored [1]) but each membrane between the rays shows in the greater specimen a dark wrinkled stripe, in the smaller specimen each membrane between the rays shows two little dark spots which form with those of the other membranes two lines parallel to the dorsal profile. In the smaller specimen the dark cross stripes of the body are more indistinct.

I can not find points of difference between *Gobius polyzona* Blkr. and *G. genivittatus* C. V., therefore I consider *polyzona* as a synonym of *genivittatus*.

BLEEKER described *G. polyzona* from Madagascar. Prof. M. WEBER kindly informed me that hitherto *G. polyzona* had not been recorded from the Indo-Australian Archipelago.

G. genivittatus was recorded from Tahiti, Fidji, Sandwich (Hawaii), Samoa, Carolines, Navigator, Society Isl., New Hebrides, Ternate, Japan, Ceram and Ambon.

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1) In this respect they agree with the typical specimens of BLEEKER in the Leyden Museum, which show this now also in contrary of the descriptions and the figure.

BLEEKER has brought his *polyzona* into the genus *Stenogobius*, according the label on the bottle containing the types in the Leyden Museum.

JORDAN & EVERMANN (Bull. U. S. Fish. Comm. XXIII (1903) 1905, p. 492) have brought *G. genivittatus* into the genus *Awaous*. These genera are very alike, but *G. genivittatus* shows more likeness to *Stenogobius* as to *Awaous*.

In comparing the typical specimens of *G. polyzona* and those of Dr. KOPSTEIN with the specimen from Ceram of the British Museum and the description and figure of GÜNTHER in the „Fische der Südsee", I found the following measurements, which are expressed in % of the length, caudal fin excluded:

Measurements in % of length (caudal fin excluded):

Length in mm.	110	110	58	44	60	80
Depth of body	18,2	16,4	20,7	25	22,1	21,3
Depth of caudal peduncle	12,3	11,8	11,2	11,4	12,5	10
Length of head.	24,5	25,4	25,9	27,3	25	22,5
Length of snout	8,2	8,2	8,6	9,1	7,5	6,3
Width of interorbital space	3,2	3,2	3,5	3,4	3,3	—
Horizontal diameter of orbit	4,5	5	6	6,9	5	5,6
Distance snout-spinous dorsal	34,5	33,6	31,9	34,1	33,3	32,5
Distance snout-soft dorsal	53,6	52,7	51,7	53,4	50,4	51,3
Height of longest dorsal spines. . .	18,2	16,4	15,5	9,1	16,7	11,3
Height of longest dorsal rays. . . .	18,2	—	20,7	15,9	23,3	22,5
Distance snout-anal fin	55,5	55,5	56,9	56,8	50,5	52,5
Height of longest anal rays.	18,2	—	18,9	13,6	15,8	14,4
Length of caudal peduncle	15,5	15,5	15,5	15,9	15,8	17,5
Length of caudal fin.	37,3	27,3	36,2	27,3	31,7	27,5
Length of pectoral fin.	21,8	21,8	25,9	27,3	21,7	24,4
Length of ventral fin	24,5	24,5	24,1	25	23,3	23,2
Number of dorsal spines.	6	6	6	6	6	6
Number of dorsal rays	12	12	12	12	12	12
Number of anal rays	12	12	12	12	12	12
Number of pectoral rays	15	15	15	15	15	—
Number of scales in lateral series .	—	—	53	53	53	54
Number of scales in transverse series	—	—	11	11	11	10 ±
	BLEEKER types *polyzona*		KOPSTEIN		Brit. Mus.	fig. GTHR

Gobius (Rhinogobius) scapulopunctatus de Bfrt.

Gobius (Rhinogobius) scapulopunctatus de Beaufort Zool. Anz. Bd. 39 1912, p. 137. Bijdrage Dierkunde 19e afl. 1913, p. 140, fig. 5.

2 specimens 53 and 54 mm. river Wae Katin 800 m. Boeroe June 27th 1923.

I compared these specimens with the types of Prof. DE BEAUFORT, which are only 20—24 mm. and could not find differences of importance. Only the form of head in my specimens is a little more obtuse, the eye smaller, the snout as long as the eye, the maxillary reaching beyond the middle of the eye. The color of my specimens differs from that of the type. After staying 5 years in formol, the color is greyish, the outer margin of each scale is dark; a narrow dark transversal band on the dorsal half of the base of the pectoral fin. Two indistinct black bands on the first dorsal fin, the membrane between the rays of the second dorsal fin with black spots forming together two dark longitudinal bands; anal fin with a darker margin. Ventral fin in one specimen light in the other dark. I found the same number of scales in lateral series and number of spines and rays in dorsal and anal fins, but only 7 scales in a tranverse line.

Sicyopterus cynocephalus (C. & V.).

Sicydium cynocephalus Cuvier & Valenciennes Hist. Nat. Poissons XII 1837, p. 177.

Sicyopterus cynocephalus Bleeker Versl. Kon. Akad. Wet. Amsterdam (2) IX 1876, p. 275.

9 specimens 6—11 1/2 cm. Wae Memi, Haroekoe Dec. 1923.

Sicyopterus brevis de Bfrt.

Sicyopterus brevis de Beaufort Zool. Anz. Bd. 39 1912, p. 141; Bijdrage tot de Dierkunde 19e afl. 1913, p. 147.

1 specimen 3 cm. Ajer Larike, Ambon Hitoe, March 17th 1923.

Sicyopterus gymnauchen (Blkr.).

Sicydium gymnauchen Bleeker Act. Soc. Sc. Indo-Neerl. III 1858, p. 11.

Microsicydium gymnauchen Bleeker Versl. Akad. Amsterdam (2) IX 1876, p. 284.

Microsicydium gymnauchen M. Weber Abh. Senckenb. Naturf. Ges. 34 1911, p. 46.

Sicyopterus gymnauchen Koumans Zool. Med. XII Afl. 1—2 1929, p. 1—3 (*Microsicydium* to be rejected).

79 specimens 1,6—3 cm. Ambon Seri June 25th 1922. In a brook near the entrance in sea, on rocks out of the water.

Stiphodon elegans (Steind.).

Sicydium elegans Steindachner Sitz. ber. K. Akad. Wien 1879, p. 152.

Stiphodon semoni M. Weber Semons Forschungsreise V, p. 270.

Stiphodon elegans de Beaufort Bijdrage Dierkunde 19e afl. 1913, p. 143.
65 specimens 2,1—3,2 cm. Ajer Larike, Ambon Hitoe March 17th, 1923.

Eleotris (Ophiocara) cantoris Gthr.
Eleotris cantoris Günther Cat. of Fishes III 1861, p. 108.
1 specimen 14 cm. Wae Memi, Haroekoe Dec. 1923.

Eleotris (Ophiocara) hoedti Blkr.
Eleotris Hoedti Bleeker Nat. T. Ned. Ind. VI 1854, p. 496.
Ophiocara Hoedti Bleeker Versl. Akad. Amsterdam (2) XI 1877, p. 35.
Eleotris (Ophiocara) hoedti de Beaufort Bijdrage Dierkunde 19e afl. 1913, p. 135.
2 specimens $11^1/_2$, $12^1/_2$ cm. Ajer Hatoe, Ambon Hitoe Febr. 1923.
1 specimen 5 cm. Ajer Larike, Ambon Hitoe March 17th 1923.
1 specimen 11 cm. Wae Memi, Haroekoe Dec. 1923.

Eleotris (Culius) fusca (Bl. Schn.).
Culius fusca Bleeker Versl. Akad. Amsterdam (2) XI 1877, p. 40.
2 specimens $7^1/_2$, $9^1/_2$ cm. Ajer Hatoe, Ambon Hitoe Febr. 1923.
4 specimens $2^1/_2$, $3^1/_2$, $6^3/_4$, $7^1/_2$ cm. Ajer Larike, Ambon Hitoe March 17th 1923.

Mugil troscheli Blkr.
Mugil Troschelii Bleeker Nat. Tijdschr. Ned. Ind. XVI 1858—1859, p. 277.
Mugil troscheli M. Weber & de Beaufort Fishes indo-austr. Arch. IV 1922, p. 248.
1 specimen $7^1/_2$ cm. Wae Hatoe, Ambon Hitoe Febr. 1923.

Pomacentrus trilineatus C. & V.
Pomacentrus trilineatus Cuvier & Valenciennes Hist. Nat. Poissons V 1830, p. 428.
Pomacentrus (Pseudopomacentrus) trilineatus Bleeker Nat. Verh. Holl. Maat. Wet. Haarlem 3e verz. II 1878, p. 60.
1 specimen $9^3/_4$ cm. Wae Memi, Haroekoe Dec 1923.

Anguilla mauritiana Benn.
Anguilla mauritiana M. Weber & de Beaufort Fishes indo-austr. Arch. III 1916, p. 245.
1 specimen $24^1/_2$ cm. Wae Memi, Haroekoe Dec. 1923.

Doryichthys retzii (Blkr.).
Syngnathus Retzii Bleeker Act. Soc. Sc. Indo-Neerl. I 1856, p. 76.
Doryichthys retzii M. Weber & de Beaufort Fishes indo-austr. Arch. IV 1922, p. 52.
1 specimen $10^1/_4$ cm. Ajer Larike, Ambon Hitoe March 17th 1923.