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A list of type specimens of fishes in the Zoological Museum, University of Amsterdam

1. Order *Mugiliformes*

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INTRODUCTION

In the earlier days the cataloguing and labeling of type specimens was rather careless, mostly with no mention that they were types. What we now term 'holotypes' were previously referred to merely as 'types', and both 'syntypes' and 'paratypes' were called 'cotypes'. Several of the original types were obscured in the files by writing them off as synonyms of other (earlier) species names, changing not only the generic, but even the specific names. Exchange of type material was extremely informal and often no record was made of the transfers.

I have started to compile a catalogue of the type material in the museum in 1952, shortly after I was put in charge of the fish collections. Demands for loan of paratypes urged me, however, to complete the cataloguing of some particular groups in advance of the intended catalogue, resulting in the present list of the order *Mugiliformes*.

This list cannot be considered complete and up to date, since more types might be found, and therefore the absence from this list must not be taken as evidence of the loss of type material. The types listed are all those upon which the descriptions of WEBER, WEBER & DE BEAUFORT, and DE BEAUFORT have been based. Type material obtained in exchange from other institutions is not included, if any such were available of this order.

TYPE DESIGNATION

When I had finished my pre-selection of the types, I was fortunate to have Prof. Dr. L. F. DE BEAUFORT, former director of the museum, look over the files to give his consent for each distinct action.

The type designation was performed according to the following definitional scheme.

- (1) holotype: the single specimen designated or indicated as 'the type' by the original author(s) at the time of the original publication.
Length, illustration to scale, or other distinguishing features, such as the generally (by the authors) adopted method of putting a string round the caudal peduncle, are regarded to be indication. Any illustration that appeared in contemporary publications, based on the same type material as described in the original publication, in which for financial or technical reasons no illustration was given, is regarded to be indicative of the holotype as to be an original indication.
- (2) lecto-holotype: a single specimen selected (in this paper) from a series of 'types', listed in the original publication, to be the holotype.
This selection has been performed only in cases that no holotype was previously determined or indicated.
- (3) paratype one of the specimens from a series of equal nomenclatorial rank which formed all or part of the material before the original author(s), not being the holotype or lecto-holotype.
Paratypes can be selected types of other taxonomic units.
- (4) lecto-paratype: any specimen of the original 'typical' series left after the lecto-holotype is designated.
- (5) type-locality: the restricted area from which the holotype (lecto-holotype) originates.

EXCHANGE OF TYPE MATERIAL

Type material includes the specimens sent in exchange to various institutions.

The institutions which received type specimen in exchange are summed up. The initials stand for: MG = Museum Genova, Italy; MLS = Marine Laboratory, Sydney (Australia); MW = Vienna Museum; NHML = British Museum (Natural History), London; NY = New York; RML = Leiden Museum; SUC = Stanford University, California.

ALFABETICAL LIST

- Atherinichthys nouhuysi** WEBER, 1910, Notes Leyden Museum, 32: 229—230; 1913, Nova Guinea, 9: 555—556, fig. 26.
- a. Holotype: 95 mm standard length (figured 1913), ZMA 103175; type-locality: Bibis (= van der Sande) river, N. Guinea. This specimen, though not listed among the original material, has been marked "type" by the author; it is the one illustrated in 1913.
Collector: H. A. LORENTZ, N. Guinea Expedition, September 10, 1909.
 - b. Paratypes: 12 ex., ZMA 103176, Alkmaar, Lorentz river, N. Guinea.
Collector: N. Guinea Expedition, September 20, October 4 and 6, 1909.
Exchange: NY 1, 1928.
 - c. Paratype: 1 ex, ZMA 103177, sidebranch to the right of Lorentz river, near Alkmaar.
Collector: N. Guinea Expedition, August 9, 1907.

- d. Paratypes: 8 ex, ZMA 103178, rivulet near Alkmaar, Lorentz river. Collector: N. Guinea Expedition, July 27, 1907.
- e. Paratype: 1 ex, ZMA 103179, Lorentz river, a little north of Alkmaar. Collector: N. Guinea Expedition, August 3, 1907.
- f. Paratype: 1 ex, ZMA 103180, Beaufort river, upstream the Bibis river, 140 m. Collector: N. Guinea Expedition, October 10, 1909.
- g. Paratypes: 9 ex, ZMA 103181, Lorentz river, south N. Guinea. Collector: Expedition GOOSZEN, brought back by N. Guinea Expedition, 1909.

Glossolepis incisus WEBER, 1908, Nova Guinea, 5: 241—242, pl. 11 fig. 7a, b, c.

- a. Holotype: 92 mm standard length (figured 1908), ZMA 103163; type-locality: Sentani lake.
- b. Paratypes: 7 ex, same data, ZMA 103165. Collector: N. Guinea Expedition, 1903. Exchange: MLS 1, 1959; RML 3, 1959.

Melanotaenia dumasii WEBER, 1908, Nova Guinea, 5: 240—241, pl. 11 fig. 1.

- a. Holotype: 73 mm standard length (figured 1908), ZMA 103112; type-locality: Wa Udu river, Urama tributary, south coast N. Guinea. Collector: N. Guinea Expedition, August 9, 1903.
- b. Paratypes: 3 ex, ZMA 103113, Wagami river. Collector: N. Guinea Expedition, August 13, 1909. Exchange: MLS 1, 1959.

Melanotaenia maculata WEBER, 1908, Nova Guinea, 5: 239—240, pl. 11, fig. 4.

- a. Holotype: 79 mm standard length (figured 1908), ZMA 103067; type-locality: mouth of Merauke river, ? brackish water, south N. Guinea.
- b. Paratypes: 12 ex, same data. Collector: Dr. J. W. R. KOCH, N. Guinea Expedition, 1903. Exchange: MW 1, 1928; NY 1, 1928; SUC 3, 1958; MLS 2, 1959; RML 1, 1959.

Melanotaenia multisquamata WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr. arch., 4: 290.

- a. Holotype: 97 mm standard length (string round caudal), ZMA 103166; type-locality: Pool at Doorman river, rotan bridge, Idenburg tributary.
- b. Paratypes: 22 ex. same data. Collector: Jhr. W. C. VAN HEURN, North N. Guinea Expedition, November 8, 1920. Exchange: MLS 5, 1959; SUC 5, 1959; RML 4, 1959.

Melanotaenia ogilbyi WEBER, 1911, Notes Leyden Museum, 32: 230—232; 1913, Nova Guinea, 9: 560—562, fig. 28; WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr. arch., 4: 293—294, fig. 78.

- a. Holotype: 51 mm standard length (figured 1913, 1922, string round caudal), ZMA 103110; type-locality: pool at Lorentz river, May 14, 1907.
- b. Paratypes: 6 ex, ZMA 103111, Sabang, Pandanus swamp at Lorentz river, July 10, 1907.
Collector: N. Guinea Expedition, 1907.
Exchange: NHML 1, 1928; MLS 2, 1959; SUC 1, 1959.

***Pseudomugil gertrudae* WEBER, 1911, Abh. Senckenb. Naturf. Ges., 34: 23—26, figs. 2, 3, and pl. 1, fig. 4.**

- a. Holotype: ♂, 25 mm standard length (figured 1911, string round caudal), ZMA 103196; type-locality: rivulet in sago forest at Ngai-guli, Terangan, Aru isl., fresh water.
- b. Paratypes: 4 ♂♂, 2 ♀♀, same data.
Collector: Dr. H. MERTON, February 18, 1908.

***Pseudomugil novae-guineae* WEBER, 1908, Nova Guinea, 5: 232—233, pl. 13, fig. 5.**

- a. Holotype: ♂, 29 mm standard length (figured 1908, string round caudal), ZMA 103197; type-locality: Wagami river, Urama tributary, south coast, western N. Guinea, fresh water.
- b. Paratypes: 2 ♀♀, same data.
Collector: N. Guinea Expedition, August 13, 1903.

***Rhombatractus affinis* WEBER, 1908, Nova Guinea, 5: 234—235, pl. 11, fig. 5.**

- a. Holotype: 116 mm standard length (figured 1908, piece of paper in mouth with notes), ZMA 103157; type-locality: Timena rivulet, Sentani lake, fresh water.
- b. Paratypes: 23 ex, same data.
Exchange: RML 2, 1928; MLS 4, 1959.
- c. Paratypes: 12 ex, ZMA 103158, Sekanto river, into Sentani lake.
- d. Paratypes: 65 ex, ZMA 103159, Wagami river, tributary of Urama river, south coast.
Collector: N. Guinea Expedition, 1903.
Exchange: MLS 10, 1959; SUC 8, 1959; RML 7, 1959.

***Rhombatractus catherinae* DE BEAUFORT, 1910, Zool. Anz., 36: 250—252; 1913, Bijdr. Dierk., afl. 19: 106—107, pl. 2, fig. 1.**

- a. Lecto-holotype: 90 mm standard length (out of 3 specimens of the same length) ZMA 103143; type-locality: rivulet entering Rabiai river, Waigeoe.
- b. Lecto-paratypes: 14 ex, same data.
Collector: L. F. DE BEAUFORT, December 31, 1909.
Exchange: NY 1, 1929; MLS 4, 1959; SUC 4, 1959; RML 4, 1959.
- c. Lecto-paratypes: 10 ex, ZMA 103144, Wai Semie, side branch of Kaiawat river, Waigeoe.
Collector: L. F. DE BEAUFORT, Januari 6, 1910.
- d. Lecto-paratypes: 226 ex, ZMA 103145, Wai Meniel rivulet, Waigeoe.

Collector: L. F. DE BEAUFORT, January 5, 1910.

Exchange: Bogor 3, 1915; NHML 2, 1928; MLS 50, 1959; SUC 40, 1959; RML 30, 1959.

Rhombatractus crassispinosus WEBER, 1913, Nova Guinea, 9: 567—568; WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr. arch., 4: 306, fig. 81.

a. Lecto-holotype: 104 mm standard length (finest specimen out of 3, apparently the one figured in 1922), ZMA 103104; type-locality: Kaiserin Augusta river, upstream in mountains, N. Guinea.

b. Lecto-paratypes: 2 ex, same data.

Collector: K. GJELLERUP, September 20, 1910.

Exchange: RML 1, 19??, Bogor 1, 19??.

c. Lecto-paratypes: 19 ex, ZMA 103106, Tawarin river, north N. Guinea.

Collector: North N. Guinea Expedition, 1903.

Exchange: NHML 1, 1928; NY 1, 1928; MLS 2, 1959; SUC 2, 1959; RML 2, 1959.

d. Lecto-paratypes: 2 ex, ZMA 103108, Upper Sermowai river, 400 m, at Walckenaer bend, north N. Guinea.

Collector: K. GJELLERUP, Juni 25, 1911,

Rhombatractus fasciatus WEBER, 1913, Nova Guinea, 9: 565—567.

a. Lecto-holotype: 108 mm standard length (largest, and first mentioned specimen), ZMA 103103; type-locality: mouth of Sermowai river, north N. Guinea.

Collector: K. GJELLERUP, May 15, 1911.

b. Lecto-paratypes: 3 ex, ZMA 103097, Buarin, side branch of upper Sermowai river near Walckenaer bend.

Collector: K. GJELLERUP, April 26, 1911.

Exchange: NHML 1, 1928; MLS 1, 1959.

c. Lecto-paratype: 1 ex, ZMA 103101, side-branch of Kaiserin Augusta river, opposite the central camp.

Collector: K. GJELLERUP, October 7, 1910.

d. Lecto-paratypes: 2 ex, ZMA 103100, river at Njao, north N. Guinea.

Collector: Dr. P. N. VAN KAMPEN, June 15, 1910.

Rhombatractus kochi WEBER, 1908, Nova Guinea, 5: 237—238, pl. 11, fig. 6.

a. Holotype: 106 mm standard length (figured 1908, string round caudal), ZMA 103151; type-locality: rivulet emptying into the mouth of the Merauke river, ? brackish water, south N. Guinea.

b. Paratypes: 5 ex, same data.

Collector: Dr. J. W. R. KOCH, N. Guinea Expedition, 1903.

Exchange: MLS 2, 1959.

c. Paratypes: 10 ex, ZMA 103128, rivulet in Etna bay, south N. Guinea,

Collector: Dr. J. W. R. KOCH, N. Guinea Expedition, 1903.

Exchange: MW 1, 1928; SUC 2, 1959, RML 2, 1959.

Rhombatractus lorentzi WEBER, 1908, Nova Guinea, 5: 236—237, pl. 11, fig. 2.

- a. Holotype: 96 mm standard length (figured 1908, string round caudal), ZMA 103146; type-locality: Tawarin river, north N. Guinea, fresh water.
- b. Paratypes: 60 ex, same data.
Collector: N. Guinea Expedition, June 20, 1903.
Exchange: MW 2, 1928; RML 1, 1928; NY 1, 1928; MLS 12, 1959; SUC 5, 1959.

Rhombatractus patoti WEBER, 1907, Zool. Anz., 32: 403—404.

- a. Lecto-holotype: 77 mm standard length (finest specimen out of three of the first mentioned sample), ZMA 103199; type-locality: west coast Terangan isl. Aru isl., fresh water, rivulet at Nigri Lama.
- b. Lecto-paratypes: 2 ex, same data.
Collector: W. F. TISSOT VAN PATOT, 1907.
Exchange: MLS 1, 1959.
- c. Lecto-paratypes: 4 ex, ZMA 103156, west coast Terangan isl, Aru isl., fresh water, rivulet near Kala Kalar, Teroenie.
Collector: W. F. TISSOT VAN PATOT, 1907.
Exchange: SUC 1, 1959; RML 1, 1959.

Rhombatractus praecox WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr.arch., 4: 298—299.

- a. Lecto-holotype: 46 mm standard length (finest specimen out of 36), ZMA 103142; type-locality: Pionierbivak, Mamberamo river, north N. Guinea.
- b. Lecto-paratypes: 14 ex, same data.
Collector: Jhr. W. C. VAN HEURN, December 19, 1920.
Exchange: MLS 9, 1959; SUC 4, 1959; RML 3, 1959.

Rhombatractus senckenbergianus WEBER, 1911, Abh. Senckenberg. Naturf. Ges., 34: 25—27, pl. 1, fig. 2.

- a. Holotype: 57 mm standard length (figured 1911, string round caudal), ZMA 103168; type-locality: fresh water, sago forest near Popdjetur, Terangan, Aru isl.
- b. Paratypes: 3 ex, same data.
Collector: Dr. H. MERTON, February 12, 1908.
- c. Paratypes: 8 ex, ZMA 103136, fresh water, sago forest near Ngaiguli, Terangan, Aru isl.
Collector: Dr. H. MERTON, February 18—24, 1908.

Rhombatractus sentaniensis WEBER, 1908, Nova Guinea, 5: 235—236, pl. 11, fig. 3.

- a. Lecto-holotype: 96 mm standard length (finest specimen out of 5 of the same length, apparently the one figured in 1908), ZMA 103093; type-locality: Sentani lake.

- b. Lecto-paratypes: 109 ex, same data.

Collector: N. Guinea Expedition, 1903.

Exchange: MW 1, 1928; RML 2, 1928; MHNG 2, 1928; NHML 2, 1928; NY 3, 1928; MLS 15, 1959; SUC 15, 1959; RML 10, 1959.

Rhombattractus vanheurni WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr. arch., 4: 299—300.

- a. Holotype: 135 mm standard length (largest specimen, about 160 mm total length, caudal lobes slightly damaged; note paper in jar with counts and measurements), ZMA 103137; type-locality: Prauwenvivak, Idenburg river; not Doorman river.

- b. Paratypes: 1 ex, ZMA 103138, 7 ex, ZMA 103162, 17 ex ZMA 103167, all same data. (no material from Doorman river).

Collector: Jhr. W. C. VAN HEURN, N. Guinea Expedition, September 1, 1920.

Exchange: from sample ZMA 103167, MLS 6, 1959; SUC 5, 1959; RML 2, 1959.

Telmatherina abendanoni WEBER, 1913, Bijdr. Dierk., 19: 208—209, fig. 6.

- a. Holotype: 71 mm standard length (figured 1913, string round caudal, note paper with counts and measurements), ZMA 103195; type-locality: Soroako at Matano lake, Celebes.

- b. Paratype: 46 mm standard length, same data.

Collector: E. C. ABENDANON, October 3—9, 1909, Celebes trip.

Telmatherina bonti WEBER & DE BEAUFORT, 1922, Fishes Indo-Austr. arch., 4: 280—281. (= *Telmatherina celebensis* (non BOULENGER) WEBER, 1913, Bijdr. Dierk., afl. 19: 206—207, fig. 5; the Towuti samples).

- a. Holotype: ♂ 63 mm standard length (figured 1913, string round caudal), ZMA 103194; type-locality: Tinampu at Towuti lake, Celebes, Pankilan of natives.

- b. Paratypes: 5 ♂ ♂, 3 ♀ ♀, same data.

- c. Paratypes: 2 juv (♀ ♀), ZMA 103193, same locality. Bonti of natives.

Collector: E. C. ABENDANON, October 15—31, 1909, Celebes trip.