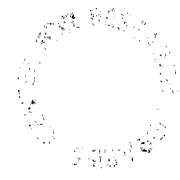
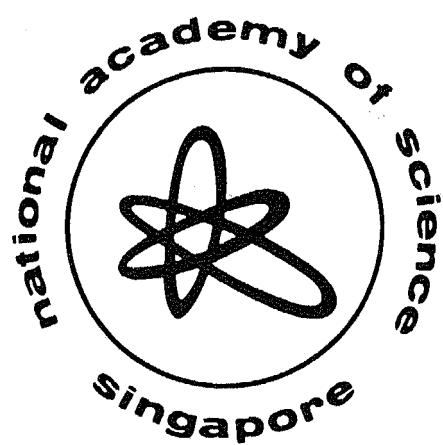


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# JOURNAL OF THE SINGAPORE NATIONAL ACADEMY OF SCIENCE



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# TYPE SPECIMENS OF FISHES IN THE NATIONAL MUSEUM, SINGAPORE

Eric R. Alfred

National Museum, Singapore

The origins of the ichthyological collection in the National Museum, Singapore, date from 1883-1887 when T.I. Rowell, Principal Civil Medical Officer, Singapore, prepared a named collection of skins representing some 40 species. Although of little significance, they were of some use since they formed the basis of Maxwell's account of the Malayan fishes (1922).

In 1895, R. Hanitsch was appointed Curator and Librarian. He served in this capacity until 1919 and during his term of office augmented the collection to 228 species (Hanitsch, 1901 & 1904). Of these, the fresh-water fishes had been identified by G. Duncker during his expedition to the Malay Peninsula and Singapore in 1900 (Duncker, 1904).

Following Hanitsch's retirement, little was added to the named collection until M.W.F. Tweedie was appointed Assistant Curator in 1932. From then until his retirement as Director in 1957, Tweedie made many significant collections (partly listed in Tweedie, 1936 & 1940). Much of this material was identified with the assistance of L.F. de Beaufort, S.L. Hora, F.P. Koumans, J.D.F. Hardenberg, J.R. Norman, A. Fraser-Brunner and A.W.C.T. Herre. During this period, additions to the collection were also made by Herre during his expeditions to Malaya and Singapore in 1934, 1937 and 1940 (Herre, 1934, 1936, 1937 & 1940). A number of new species were described and most of the types were deposited in Museums elsewhere. Some of the supposed types that were retained (Tweedie, 1936 & 1940), are topotypes which were collected and identified with the primary types.

Since the writer took charge as Curator of Zoology in August 1957, the ichthyological collection has been augmented to over 900 species, and the collection has been re-labelled, catalogued and arranged following the method described by Myers and Storey (1956, System followed in filing specimens of recent fishes in the Natural History Museum of Stanford University. Circular No. 6, Stanford University). The most significant recent additions are the collections of the Fisheries Vessel *Manihine* from the Malacca Straits and South China Sea.

The present list comprises the material which accords with the definition of type specimens in the International Code of Zoological Nomenclature, 2nd edition, 1964, articles 71-75. The following abbreviations are used: BM = British Museum (Natural History), London; FMNH = Field Museum of Natural History, Chicago; NMS = National Museum, Singapore; RMNH = Rijksmuseum van Natuurlijke Historie, Leiden; SU = Natural History Museum, Stanford University; USNM = U.S. National Museum, Washington; ZMA = Zoologisch Museum, Amsterdam; ZMH = Zoologisches Staatinstitut und Zoologisches Museum, Hamburg; ZSI = Zoological Survey of India, Calcutta.

## Family BAGRIDAE

*Leiocassis chaseni* De Beaufort

De Beaufort, 1933, Bull. Raffles Mus., 8: 34.

*Holotype*, NMS 290, Ulu Jelai, Pahang, Malaya, collected by A.D. Machado, February 1910, caudal fin broken, standard length 85 mm.

## Family SILURIDAE

*Wallagonia tweediei* Hora & Misra

Hora and Misra, In: Hora and Gupta, 1941, Bull. Raffles Mus., 17: 18-21, fig. 2.

*Holotype*, NMS 350, (plaster cast with head and fins built-in), Kuala Tahan, Pahang, Malaya, collected

*Journal of the Singapore National Academy of Science, Vol. 2. No. 2.*

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50.0-65.1 mm  
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by M.W.F. Tweedie, 1940, total length 143 cm., standard length 134 cm. ZSI F13365/1, (right anterior gill arch).

### Family AKYSIDAE

#### *Parakysis verrucosa* Herre

Herre, 1940, Bull. Raffles Mus., 16: 11-13, Pl. 6.

*Paratype*, NMS 1066, Mawai District, Johore, Malaya, collected by A.W.C.T. Herre, February 27, 1937, total length 32.4 mm., standard length 25.7 mm.

Holotype and paratypes in SU, paratype in BM.

#### *Akysis hendricksoni* Alfred

Alfred, 1966, Copeia, 1966 (3): 467-470, fig. 1.

*Holotype*, NMS 1414, Trengganu River, Kuala Brang, Trengganu, Malaya, collected by J.R. Hendrickson, T. Selvarajah and E.R. Alfred, July 8, 1958, total length 30.6 mm., standard length 23.3 mm.

*Paratype*, NMS 1416, same data as holotype, total length 32.8 mm. standard length 24.5 mm.

Paratype in BM.

### Family GASTROMYZONTIDAE

#### *Glaniopsis hanitschi* Boulenger

Boulenger, 1899, Ann. Mag. Nat. Hist., (7) 4: 228-229.

*Syntypes* (7), NMS 1497, Kadamaian River, 2,100 feet, Mount Kinabalu, Borneo, collected by R. Hanitsch, March 26, 1899, caudal fins broken, standard length 45.8-76.6 mm.

Syntypes in BM.

### Family HOMALOPTERIDAE

#### *Homaloptera leonardi* Hora

Hora, 1941, Bull. Raffles Mus., 17: 61-63, pl. 5, figs. 5 & 6.

*Paratype*, NMS 1753, Kuala Tahan, King George V National Park, Pahang, Malaya, collected by G.R. Leonard, 1939, total length 64.6 mm., standard length 50.0 mm.

Holotype and paratypes in ZSI.

#### *Homaloptera ogilviei* Alfred

Alfred, 1967, Copeia, 1967 (3): 587-591, figs. 1-4.

*Holotype*, NMS 1555, River Jelai, 14th mile Tampin to Kuala Pilah Road, Negri Sembilan, Malaya, collected by E.R. Alfred, September 5, 1960, total length 41.8 mm., standard length 32.1 mm.

*Paratype*, NMS 1556, same data as holotype, total length 47.6 mm., standard length 37.0 mm.

*Paratypes* (2), NMS 1553, River Tok Dor, Kampong Tok Dor, Trengganu, Malaya, collected by E.R. Alfred, August 4, 1966, total length 44.0-57.7 mm., standard length 34.2-45.9 mm.

*Paratype*, NMS 1557, River Muar, Kuala Pilah, Negri Sembilan, Malaya, collected by P.Y. Berry, June 25, 1960, total length 56.2 mm., standard length 44.2 mm.

*Paratype*, NMS 1559, Kluang, Johore, Malaya collected by M.W.F. Tweedie, August 1957, total length 52.9 mm., standard length 42.5 mm.

*Paratype*, NMS 1558, Chegar Sireh, River Tahan, King George V National Park, Pahang, Malaya, collected by E.R. Alfred, March 3, 1958, total length 38.0 mm., standard length 30.0 mm.

*Paratypes* (2), NMS 1554, River Perak, Kuala Kangsar, Perak, Malaya, collected by E.R. Alfred, September 7, 1960, total length 48.2-49.8 mm., standard length 37.1-39.8 mm.

Paratypes in BM, RMNH, USNM and ZSI.

#### *Homaloptera nigra* Alfred

Alfred, 1969, Zool. Meded., 43 (18): 217-219, figs. 1b & 2b, pl. 1, figs. 1 & 2.

*Holotype*, NMS 2009, Chegar Sireh, River Tahan, King George V National Park, Pahang, Malaya, collected E.R. Alfred, March 3, 1958, total length 67.5 mm., standard length 53.0 mm.

*Paratypes* (5), NMS 1548, same data as holotype, total length 56.2-? mm., standard length 46.3-77.4 mm.

*Paratypes* (6), NMS 1550, Kuala Tahan, Pahang, Malaya, collected by C.S. Ogilvie, 1949, total length 50.0-65.1 mm., standard length 40.0-50.7 mm.

Paratypes in BM, RMNH, SU and ZSI.

*Homaloptera nebulosa* Alfred

Alfred, 1969, Zool. Meded., 43 (18): 227-229, fig. 1h, pl. 1, figs. 3 & 4.

*Holotype*, NMS 2020, River Sok, Kampong Sok, Kelantan, Malaya, collected by E.R. Alfred, August 5, 1966, total length 31.4 mm, standard length 24.5 mm.

*Paratype*, NMS 1959, same data as holotype, total length 28.5 mm., standard length 22.3 mm.

Paratypes in BM, RMNH and SU.

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**Family COBITIDAE**

*Acanthopthalmus kuhlii malayanus* Tweedie

Tweedie, 1956, Bull. Raffles Mus., 27: 58, pl. 6a.

*Paratypes* (2), NMS 1444, near Kuala Tahan, Pahang, Malaya, collected by M.W.F. Tweedie, March 1955, total length 55.7-63.3 mm., standard length 49.4-56.5 mm.

Holotype and paratypes in BM.

1937

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*Acanthopthalmus mariae* Inger & Chin

Inger and Chin, 1962, Fieldiana: Zoology, 45: 118-119, fig. 56.

*Paratypes* (5), NMS 941, Small tributary of Kinabatangan River, Deramakot, Kinabatangan District, Sabah, collected by R.F. Inger and Chin Phui Kong, May 2, 1956, total length 47.6-60.1 mm., standard length 42.4-54.5 mm.

Holotype and paratypes in FMNH.

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*Acanthopthalmus (Cobitophis) muraeniformis* De Beaufort

De Beaufort, 1933, Bull. Raffles Mus., 8: 32.

*Syntypes* (2), NMS 1052, Thomson Road, Singapore, collected by R. Hanitsch, May 16, 1912, total length 45.3-51.0 mm., standard length 39.0-44.5 mm.

*Syntypes* in ZMA.

M.W.F

Punti

*Acanthopthalmus pahangensis* De Beaufort

De Beaufort, 1933, Bull. Raffles Mus., 8: 31-32.

*Holotype*, NMS 490, Pahang River, off Mentakab, Pahang, Malaya, collected by Fisheries Department, Malaya, May 30, 1929, total length 44.1 mm., standard length 36.6 mm.

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*Lepidocephalus furcatus* De Beaufort

De Beaufort, 1933, Bull. Raffles Mus., 8: 32-33.

*Syntypes* (3), NMS 1445, Bukit Merah Reservoir, Perak, Malaya, collected by Fisheries Department, Malaya, July, 18, 1925, total length 21.4-31.8 mm., standard length 18.2-25.0 mm.

*Syntypes* in BM and ZMA.

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**Family CYPRINIDAE**

*Barbus lineatus* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 180, pl. 2, fig. 14.

*Paratype*, NMS 2311, Muar River, Tebing Tinggi, Johore, Malaya, collected by G. Duncker, 1900, total length 34.4 mm., standard length 24.5 mm.

Lectotype and paratypes in ZMH, paratypes in BM and ZMA.

Rasbor

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length 41

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*Barbus pahangensis* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 179, pl. 1, fig. 4.

*Paratype*, NMS 914, Pahang River above Kuala Kitchal, 88-120 kilometers from the mouth, Pahang, Malaya, collected by G. Duncker, 1900, caudal fin broken, standard length 105 mm.

Holotype and paratypes in ZMH, paratypes in BM and ZMA.

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43.4 mm.

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*Barbus soroides* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 178-179, pl. 1, fig. 7.

*Paratype*, NMS 913, Eastern slope of Sanka Dua Pass, in the source zone of the Pahang Rivers, 2,000 ft. above sea level, Pahang, Malaya, collected by G. Duncker, 1900, total length 133 mm., standard length 99.9 mm.

Holotype and paratypes in ZMH, paratypes in BM.

*Lissochilus hendersoni* Herre

Herre, 1940, Bull. Raffles Mus., 16: 9-10, pl. 4.

*Paratype*, NMS 617, fresh water creek, Penang Island, Malaya, collected by A.W.C.T. Herre, March 19, 1937, total length 78.1 mm., standard length 61.0 mm.

Holotype and paratypes in SU, paratypes in ZSI.

*Paracrossochilus acerus* Inger & Chin

Inger and Chin, 1962, Fieldiana: Zoology, 45: 100-104, fig. 47.

*Paratypes* (5), NMS 942, unnamed tributary of Baleh River, 10 kilometers from Sungei Dapu, Third Division, Sarawak, collected by R.F. Inger and Chin Phui Kong, August 5, 1956, total length 46.5-79.2 mm., standard length 36.9-65.4 mm.

Holotype and paratypes in FMNH.

*Puntius binotatus banksi* Herre

Herre, 1940, Bull. Raffles Mus., 16: 31-32.

*Syntypes* (20), NMS 349, pond in Botanic Gardens, Singapore, collected by A.W.C.T. Herre and M.W.F. Tweedie, March 1937, total length 43.4-79.7 mm., standard length 32.0-58.5 mm.

*Syntypes* in SU.

*Puntius birtwistlei* Herre

Herre, 1940, Bull. Raffles Mus., 16: 32.

*Syntype*, NMS 555, Chenderoh Dam, Perak, Malaya, collected by A.W.C.T. Herre and W.W.F. Tweedie, March 18, 1937, total length 280 mm., standard length 205 mm.

*Syntypes* in SU.

*Rasbora dorsiocellata* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 182, pl. 1, fig. 2.

*Paratypes* (3), NMS 2315, Kuala Jelai, Negri Sembilan, Malaya, collected by G. Duncker, 1900, total length 19.5-21.8 mm., standard length 15.1-16.5 mm.

Lectotype and paratypes in ZMH, paratypes in ZMA.

*Rasbora heteromorpha* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 182-183, pl. 1, fig. 5.

*Paratypes* (6), NMS 2314, 2-3 mile stone, Semenyih to Beranang road, Selangor, Malaya, collected by G. Duncker, 1900, total length 24.0-33.6 mm., standard length 18.1-23.4 mm.

Lectotype and paratypes in ZMH, paratypes in ZMA.

*Rasbora maculata* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 182, pl. 1, fig. 6.

*Paratypes* (6), NMS 2313, Bukit Terah, Bandar Maharani, Johore, Malaya, collected by G. Duncker, 1900, total length 16.8-19.5 mm., standard length 13.8-15.4 mm.

Lectotypes and paratypes in ZMH, paratypes in ZMA.

*Rasbora vulgaris* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 181-182.

*Paratypes* (6), NMS 2312, Kuala Lumpur, Selangor, Malaya, collected by G. Duncker, 1900, total length 41.4-81.0 mm., standard length 29.5-60.0 mm.

Lectotype and paratypes in ZMH, paratypes in BM.

## Family ANABANTIDAE

*Osphromenus malayanus* Duncker

Duncker, 1904, Mitt. Naturh. Mus. Hamburg, 21: 163-164, pl. 1, fig. 8.

*Paratype*, NMS 2310, Kuala Lumpur, Selangor, Malaya, collected by G. Duncker, 1900, total length 43.4 mm., standard length 32.3 mm.

Lectotype and paratypes in ZMH, paratypes in BM.

*Parosporomenus paludicola* Tweedie

- Tweedie, 1952, Bull. Raffles Mus., 24: 69-71, fig. 2.  
*Paratypes* (8), NMS 301, near Merchang, Trengganu, Malaya, collected by M.W.F. Tweedie, August 13, 1950, total length 26.6-31.0 mm., standard length 20.3-23.6 mm.  
*Paratypes* (4), NMS 302, stream near Kuala Brang, Trengganu, Malaya, collected by M.W.F. Tweedie, August 16, 1950, total length 21.2-34.7 mm., standard length 18.2-27.7 mm.  
Holotype and paratypes in BM.

Hora,

Family GOBIIDAE

*Gobiella birtwistlei* Herre

- Herre, 1934, Bull. Raffles Mus., 9: 85-86.  
*Syntypes* (31), NMS 225, brackish water tidal creeks, Singapore, collected by A.W.C.T. Herre and M.W.F. Tweedie, March 18, 1934, total length 16.8-30.6 mm., standard length 14.3-25.7 mm.  
*Syntypes* in BM, SU, ZMH and ZSI.

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*Brachygobius xanthomelas* Herre

- H Herre, 1937, Bull. Raffles Mus., 13: 43-44, pl. 4.  
*Paratypes* (4), NMS 2134, Mawai District, Johore, Malaya, collected by A.W.C.T. Herre and M.W.F. Tweedie, March 20, 1934, total length 14.5-18.7 mm., standard length 11.7-15.4 mm.  
Holotype and paratypes in SU.

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*Ctenogobius kranjiensis* Herre

- Herre, 1940, Bull. Raffles Mus., 16: 22-23, pl. 17.  
*Paratype*, NMS 224, Kranji River, Singapore, collected by A.W.C.T. Herre and M.W.F. Tweedie, March 10, 1937, total length 34.2 mm., standard length 23.6 mm.  
Holotype and paratypes in SU.

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*Vaimosa perakensis* Herre

- Herre, 1940, Bull. Raffles Mus., 16: 21-22, pl. 16.  
*Paratypes* (50), NMS 255, Lake above Chenderoh Dam, Perak, Malaya, collected by A.W.C.T. Herre and M.W.F. Tweedie, March 19, 1937, total length 14.3-30.4 mm., standard length 10.9-24.8 mm.  
Holotype and paratypes in SU.

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