

## List of the freshwater fishes presently known from the island of Fernando Poo

by

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Freshwater fishes have been collected on the island of Fernando Poo at different times. A first important collection was made by Mr. F. Newton in 1893—1894. A report on this collection was published by B. Osorio (1895) who listed five species from freshwater and many other marine species. A second important collection was made by Mr. E. Seimund in 1902—1903 and contained seven species of freshwater fishes. No special report was made on it, but the specimens are listed by G. A. Boulenger in his "Catalogue of the Freshwater Fishes of Africa". During a 1962—1963 mainly mammalogical and ornithological expedition Prof. M. Eisentraut also collected seven species of fishes, six of them not present in the Seimund collection. During a one week exploration of the island, in December 1964, we had opportunity to collect twenty species of fishes, twelve of them not previously recorded from the island. A full report on these two recent collections will be published later elsewhere, but it was thought useful to give by now the complete list of the fishes already collected on Fernando Poo.

The total number of fish species known at present from the freshwaters of the island numbers twenty-five. (In this number the species listed by B. Osorio are not taken into account, as the names used by this author require some further examination.) These species can be classified into different ecological categories (see G. Myers, 1949, but somewhat modified).

A. Typical freshwater fishes, strictly intolerant to salt water.

*Alestes longipinnis* (Gthr., 1864)

*Clarias walkeri* Gthr., 1896 (syn. *C. poensis* Blgr., 1909)

*Malapterurus electricus* (Gmelin, 1789)

*Barbus batesii* Blgr., 1903

*Barbus callipterus* Blgr., 1907

*Barbus camptacanthus* (Blkr., 1863)

*Barbus trispilos* (Blkr., 1863)

B. Typical freshwater fishes, but supporting an accidental stay in brackish or salt water.

*Epiplatys sexfasciatus* Gill, 1862

*Aphyosemion bivittatum* Lönnb., 1895

*Aphyosemion cameronensis* (Blgr., 1903)

*Haplocheilichthys spilauchena* A. Dum., 1859

*Procatopus nototaenia* Blgr., 1904

*Pelmatochromis nigrofasciatus* (Pelleg, 1900)

C. Marine fishes entering freely into freshwaters at various times of their life, or even reproducing in freshwater.

*Syngnathus ansorgii* Blgr., 1910

*Microphis smithii* A. Dum., 1870

*Mugil falcipinnis* Cuv. et Val., 1836

*Eleotris monteiri* O'Shaugh., 1875

*Gobius guineensis* Ptrs., 1876

*Gobius soporator* Cuv. et Val., 1837

*Nematogobius ansorgii* Blgr., 1910

*Lentipes bustamantei* Greeff, 1884

*Sicydium* sp. (aff. *breifililis* Ogilv., 1884). The specific status of this species will be precised in a later paper.

D. Marine fishes supporting an accidental stay in freshwater.

*Gerres melanopterus* Blkr., 1863

*Lutjanus goreensis* Cuv. et Val., 1830)

E. Shore-fishes, typical for and restricted to the tidal coast-zone.

*Periophthalmus koelreuteri* (Pallas, 1770)

From the above mentionned list of species and from their classification into ecological groups, two main conclusions seem possible.

1. The absence of endemic freshwater fishes on the island. This confirms the absence of endemic species and the very low degree of sub-specific endemism also stated in reptiles (only one endemic subspecies, according to R. Mertens, 1865) and in birds and mammals (about 30 % endemic subspecies, according to M. Eisentraut, 1965). This also points to a recent connection of the island with the African continent.

2. Research for the zoogeographical affinities of the island should be based essentially on the fishes of group A, and to a less extent also on the species of group B. The present list of species indicates a rather natural relationship with the lowland forested area of Nigeria and Cameroon, but also gives some arguments which support a rather strong relationship with the hilly forested area of South Cameroon.

#### References

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