

TWO NEW SPECIES OF BARBUS FROM YUNNAN

by

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In our Yunnan-collection I have found two interesting fishes. One was collected from Yi-lon-hu of Shiping, another from Fu-shien-hu of Kiangchuan. They belong to the Genus *Barbus* and are considered to be new to Science. I take pleasure to name them after Messrs. C. T. Regan and J. R. Norman of the Museum of Natural History of London, who have studied some fishes of this province.

***Barbus normani* sp. nov.**

Description of a specimen from Shiping (Yi-lon-hu), Yunnan Province. No. 19324, in Zoological Museum of Fan Memorial Institute of Biology.

Length to caudal base 480 mm. Depth in length 4.6; head 4.6. Eye in head 7.5; snout 3; interorbital 3.2; pectoral 1.5; ventral 1.5; longest dorsal ray 1.2; longest anal ray 2; depth of caudal peduncle 1.8, its length 1.3.

D. 3/8.

A. 3/5.

Scales $90\frac{15\frac{1}{2}}{13}$

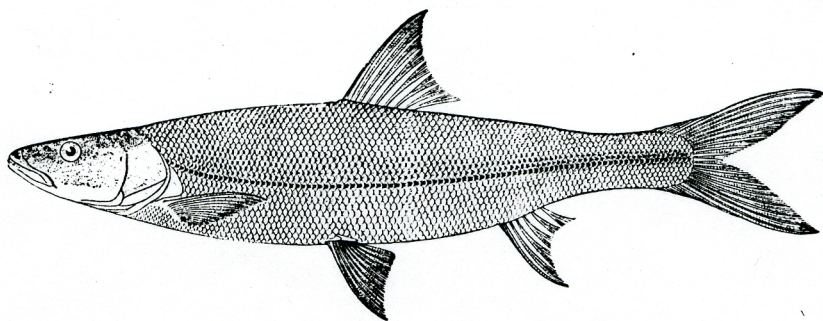


Fig. 1. *Barbus normani* sp. nov.

Body elongate, rather compressed, fusiform, deepest before dorsal origin; caudal peduncle long and much compressed; head rather long and pointed; eye moderate, lateral, situated at anterior half of head; nostrils nearer eye than tip of snout; mouth large, oblique; jaws equal; upper jaw with a cutting edge; a strong tubercle at the symphysis of lower jaw, which-fits into a depression on the lower side of the upper jaw; cleft of mouth extending to below anterior margin of eye; barbels absent; lateral line complete, nearly straight, in the middle of caudal peduncle; air-bladder very large, bipartite; pharyngeal teeth pointed, hooked, in 2 rows 5,3/3,5; scales rather small, 7 scales between lateral line and ventral base, a large scale at the base of ventral; dorsal without spinous rays, its origin nearer caudal base than tip of snout; ventral not reaching the vent, its origin opposite to that of dorsal; pectoral not reaching ventral, extending about half the distance from its origin to the origin of ventral; anal short; caudal deeply forked.

Color gray above, pale below, a black long band along lateral line; fins dusky.

This species differs from other chinese species of *Barbus* in having 90 rows of scales on the lateral line and the tubercle of the mouth.

Measurements of two examples are given as below:

| Number | Locality | Length to caudal base | Depth in length | Head in length | Scales |
|--------|---------------------|-----------------------|-----------------|----------------|-------------------|
| 09253 | Shiping (Yi-lon-hu) | 360 mm | 4.5 | 4.5 | $88\frac{15}{13}$ |
| 11052 | Shiping (Yi-lon-hu) | 430 mm | 4.3 | 4.3 | $90\frac{15}{13}$ |

***Barbus regani* sp. nov.**

Description of a specimen from Kiangchuan (Fu-shien-hu), Yunnan Province. No. 10393, in Zoological Museum of Fan Memorial Institute of Biology.

Length to caudal base 310 mm. Depth in length 4.5; head 3.2. Eye in head 6.3; snout 3.1; interorbital 5.1, pectoral 2.2, ventral 2.4; longest dorsal ray 2.3; longest anal ray 2.3; depth of caudal peduncle 2.7, its length 2.3.

D. 3/8.

A. 3/5.

Scales $55\frac{8\frac{1}{2}}{8\frac{1}{2}}$

Body elongate, rather compressed; caudal peduncle long and much compressed; snout long and pointed; mouth terminal, subvertical, much oblique, the lower maxillary beyond the upper one; two pairs of barbels; eye large, lateral, situated on anterior part of the head; gill-membranes joined to isthmus under posterior margin of eye; $4\frac{1}{2}$ gills; pharyngeal teeth pointed, hooked, in three rows, 5,3,1./1,3,5; lateral line complete, nearly straight, in middle of caudal peduncle; scales moderate, $5\frac{1}{2}$ rows between lateral line and ventral base, a large one at the base of ventral; air-bladder very large, bipartite; vent before anal; dorsal with third simple ray ossified and serrated, its origin nearer caudal base than tip of snout; pectoral not reaching ventral, extending about $\frac{3}{5}$ the

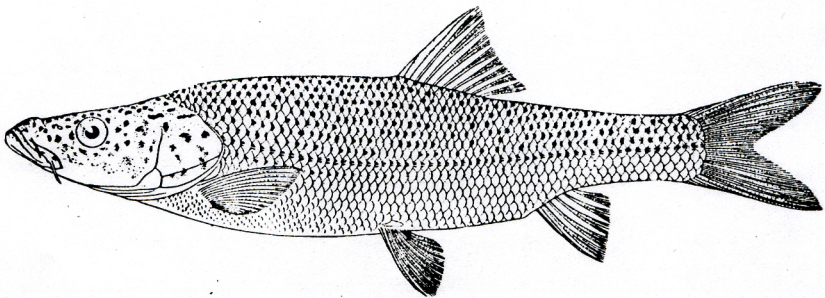


Fig. 2. *Barbus regani* sp. nov.

distance from its origin to the origin of anal; ventral not reaching the vent; anal short, without ossified rays; caudal forked.

Color in alcohol yellowish; the scales of upper part of body with black spots forming longitudinal series; fins dusky.

This species is allied to the preceding one but differs in having an osseous dorsal ray, fewer scales on lateral line, two pairs of barbels and different coloration.

Measurements of two specimens are given as below:

| Number | Locality | Length to caudal base | Depth in length | Head in length | Scales |
|--------|------------|-----------------------|-----------------|----------------|---------------------------------------|
| 10394 | Kiangchuan | 310 mm | 3.6 | 3.1 | $57\frac{9\frac{1}{2}}{9\frac{1}{2}}$ |
| 11066 | Kiangchuan | 220 mm | 3.6 | 3.1 | $59\frac{9\frac{1}{2}}{10}$ |