

## TWO NEW SPECIES OF BARBUS FROM YUNNAN

by

T. L. TCHANG

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

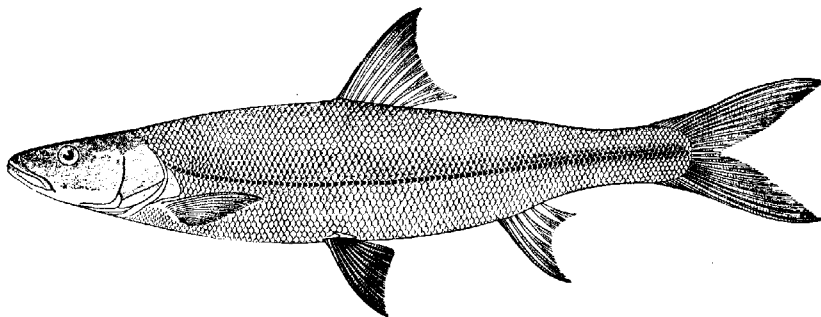


Fig. 1. *Barbus normani* sp. nov.

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	$88\frac{15\frac{1}{2}}{13}$
11052	Shiping (Yi-lon-hu)	430 mm	4.3	4.3	$90\frac{15\frac{1}{2}}{13}$

***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

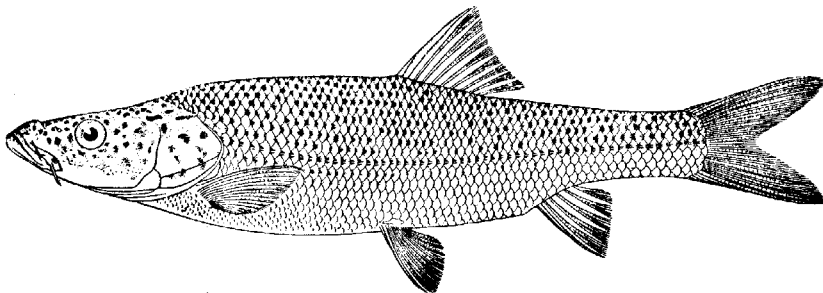


Fig. 2. *Barbus regani* sp. nov.

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	$59\frac{9\frac{1}{2}}{10}$

## 雲南魮屬兩新種

張春霖

本所雲南標本中，又有二種希奇之魚類，一種採自石屏之異龍湖，一種採自江川之撫仙湖，均隸魮屬。大英博物館 Norman 及 Regan 先生，曾研究雲南淡水魚類，故以其名名之。

### 乾條魮 *Barbus normani*

體長而微扁，梭形，背鰭之前部為體之最高處。頭長，其前端尖，目在頭之側面，中等大。鼻孔近於目。口斜而大，居頭之前端。上下顎等長，下顎之中間有一硬突起而上顎與之相當之位置處有一凹。無小鬚。側線完全。鰾大，分二部。喉齒尖而端作勾形，二行。鱗小，在側線上有鱗九十，側線與背鰭間有十五行半，側線與腹鰭間有七行，腹鰭基部有一較大之鱗。背鰭無硬刺，其基部距尾基較距吻端為近。腹鰭與背鰭相對。胸鰭不及腹鰭。臀鰭短。尾深叉狀。體上部灰色，下部淡黃，沿側線有黑斑一條。此種與中國魮屬其他種不同之點，為側線上有較多之鱗及口之形狀不同。採自雲南石屏異龍湖。

### 花魮 *Barbus regani*

體長而微扁。尾柄長而扁。吻長而尖。口頭之尖端微向上傾。下顎較上顎略長。小鬚兩對。目大，在頭之側面。喉齒尖而上端勾形，三行。側線完全。鱗中庸，五十五個沿側線上，八行半在背鰭與側線間，五行半居側線與腹鰭間，腹鰭基部有一大鱗片。鰾大。分二部。背鰭有硬刺，其第一刺距尾基之距離較近於距吻端之距離。胸鰭不及腹鰭。腹鰭不及臀鰭。尾叉狀。體色淡黃，上半部之鱗片上有黑點，此點排行成行，下半部無之。此種與前種相近，唯此種背鰭有硬刺，側線上之鱗片較少，有小鬚及體上半部有黑點成行為不同耳。採自雲南江川異仙湖。