

**CLUPISOMA BASTARI SP. NOV. (PISCES : SCHILBEIDAE) FROM BASTAR,  
MADHYA PRADESH, INDIA**

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**ABSTRACT**

A new species of schilbeid fish, *Clupisoma bastari*, from Indravati river at Lohandigura, Bastar District, Madhya Pradesh, India, is described and illustrated. A key to the species of *Clupisoma* Swainson is also included in the paper.

**Order SILURIFORMES**

**Suborder SILUROIDEI**

**Super Family SILUROIDAE**

**Family SCHILBEIDAE**

**Genus Clupisoma Swainson**

***Clupisoma bastari* sp. nov.**

(Figs. 1 and 2)

**Material :** 2 exs., Indravati River (a tributary of Godavari River) at Lohandigura, 33 kms west of Jagdalpur, Bastar District, Madhya Pradesh.

**Diagnostical Characters :** A *Clupisoma* with abdominal edge keeled from vent to thorax. Maxillary barbels extend upto anal base. Anal fin with 52-54 rays.

**Description :** B 6 ; D-1/7-8 ; P-1/10-12 ; V-6 ; A 52-54. Body elongate, compressed, abdominal edge keeled from vent to thorax,

Head short, bluntly pointed, width 1.4 to 1.7 in its length, head length 4.4-4.7, depth 6.4 to 6.7 in standard length ; covered with soft skin. Snout bluntly pointed, 2.5 to 3 in head 1.0 to 1.4 in eye. Eyes large, visible from ventral surface, ventrolateral, with adipose lids, in the middle of head, above angle of mouth, 3.0 to 3.5 in head, 1.0 to 1.5 in interorbital width ; mouth subterminal, crescentic, gape of mouth 1.9 to 2.3 in width of head, upper jaw slightly longer ; maxillary barbels extending to anal fin base, outer and inner mandibular barbels longer than head, nasal barbels extend upto middle of eye. Teeth villiform in bands in both jaws ; vomeropalatine band interrupted in middle. Median longitudinal groove on the head extend to hind border of eye. Occipital process long, pointed, extending to basal bone of dorsal, 4.0 to 4.8 times as long as wide at its base. Dorsal fin 1.2 to 1.3 in head with a strong spine serrated internally and finely serrated externally, 1.3 to 1.4 in head, insertion 1.0 to 1.8 eye diameter behind head, adipose dorsal above the last quarter of anal base, 1.4 to 1.6 eye diameter before last

anal ray. Pectoral fins 1.1 to 1.2 in head, not reaching pelvic insertion with a spine serrated internally and finely serrated externally. Pelvic fins 2.2 to 2.4 in head, nearly reaching anal insertion, 2.6 to 3.4 eye diameter from pectoral base, insertion 0.5 to 0.55

deeply forked, lobes equal, 1.2 to 1.4 in head, 4.4 to 4.7 in total length, least height of caudal peduncle 1.4 to 1.7 its length. Lateral line extending to caudal base. Skin smooth, dark above lighter below.

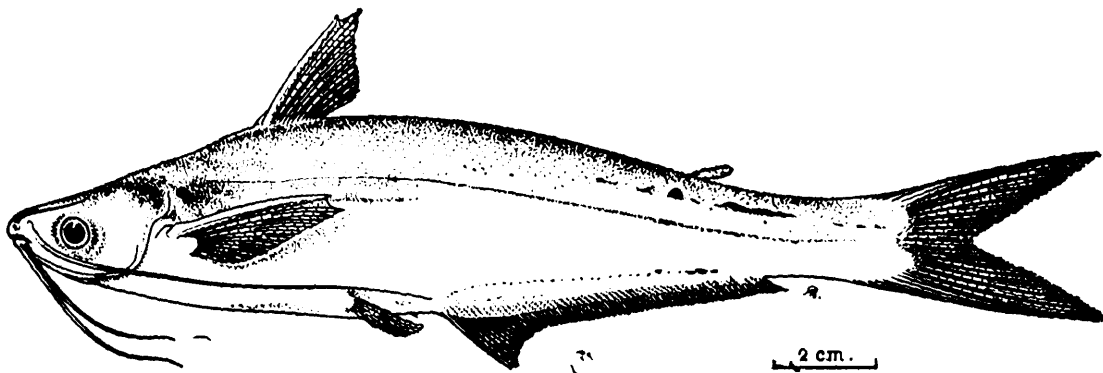


Fig. 1. *Clupisoma bastari* sp. nov.

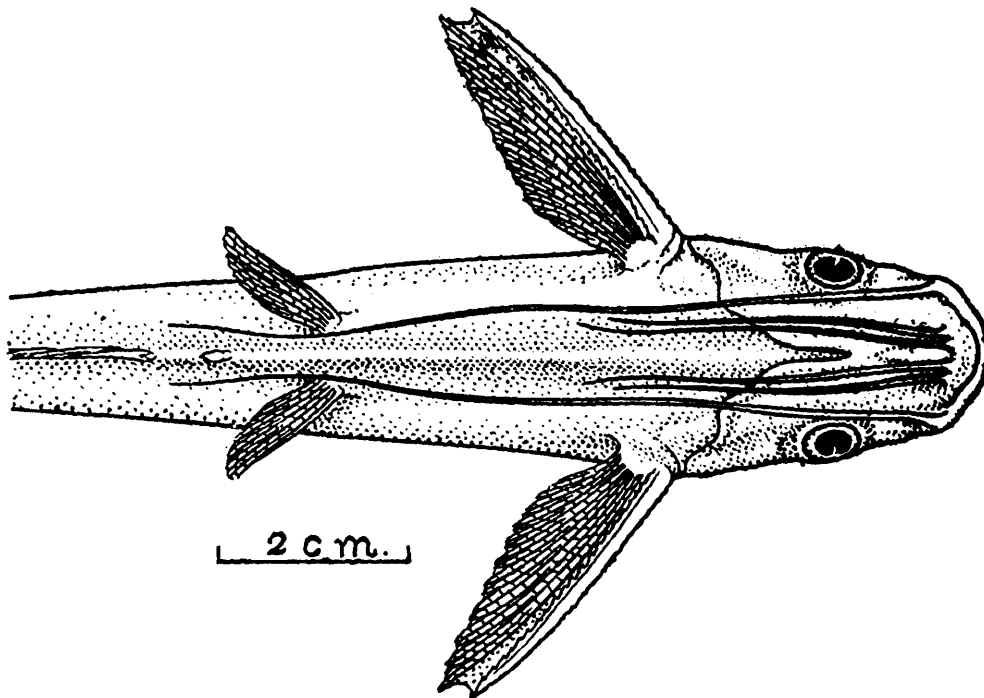


Fig. 2. Ventral view of *Clupisoma bastari* sp. nov. showing the abdominal keel.

in eye diameter behind last dorsal ray, nearer to anal origin than to pectoral base. Anal fin long with 52 to 54 rays, its base 2.55 to 2.65 in standard length, insertion 1.3 to 1.8 eye diameter behind pelvic origin. Caudal fin

*Type specimens* : Deposited in the Zoological Survey of India, Calcutta. *Holotype* : Reg. No. FF. 1324, 175 mm in standard length ; from Indravati River (a tributary of Godavari River) at Lohandigura, 33 km West

Table 1. Comparison of *C. bastari* with related species

Sl. No.	Characters	<i>C. garua</i>	<i>C. montana</i>	<i>C. prateri</i>	<i>C. naziri</i>	<i>C. bastari</i>
1.	Length of head contained	5.50-6.00, length of caudal 4.50 and height of body 5.50-7.00 times in total length.	6.01, length of caudal 5.91 and height of body 5.45 in total length.	7.10, length of caudal 6.92 and height of body 5.51 in total length.	5.65-6.34 length of caudal 4.71-5.35 and height of body 5.76-6.34 in total length.	4.46-6.34 length, of caudal 4.38-4.72 and height of body 5.61 to 6.58 in total length.
2.	Diameter of eye contained	3.50-4.00 in length of head. 1.00-1.50 in length of snout and 2.50 in interorbital space.	4.70-4.80 in length of head, 1.80 in length of snout and 2.00 in interorbital space.	3.10 to 3.50 in length of head, 1.10-1.50 in length of snout and 1.20 to 1.40 in interorbital space.	4.80-6.00 in length of head 2.00-2.64 in length of snout and 2.36-2.75 in interorbital space.	3.00-3.50 in length of head, 1.00-1.50 in length of snout and 1.00-1.50 in interorbital space
3.	Nasal barbel	not reaching eye, maxillary barbel reach to the end of pelvic, mandibular barbels as long as head.	extending middle of eye, maxillary barbel extend beyond pectoral base, mandibular barbel not reaching pectoral base.	extending middle of eye, maxillary barbel extending middle of pelvic mandibular barbel reaching pectoral base.	extending behind the eye, maxillary barbel extend upto base of pelvic or little beyond mandibular barbel slightly short of head, reaching pectoral base.	extending middle of eye, maxillary barbel extend upto anal base, mandibular barbel extend beyond pectoral base.
4.	Gape of mouth	4.00 in length of head.	3.21 in length of head.	3.23 in length of head.	2.00 to 3.11 in length of head.	2.71 to 4.00 in length of head.
5.	Abdominal edge	keeled between pelvic and vent.	rounded.	keeled throughout.	rounded.	keeled from vent to thorax.
6.	Anal fin with	29-36 rays.	41-43 rays.	40-44 rays.	40-47 rays	52-54 rays
7.	Length of pelvic in head	1.8.	1.8-1.9.	1.4.	2.0-1.45	2.2-2.4
8.	Anal insertion	2.4 in eye diameter behind pelvic fin.	3 in eye diameter behind pelvic fin.	2.8 in eye diameter behind pelvic fin.		1.3-1.8 in eye diameter behind pelvic fin.
9.	Caudal peduncle	2 in its length.	1.8-1.9 in its length.	2 in its length.	1.2 in its length.	1.4-1.7 in its length.

of Jagdalpur, Bastar District, Madhya Pradesh 7.vii.1978. A. K. Karmakar Coll., Paratypes : Reg. No. FF 1325, 1 ex, 180 mm in standard length ; taken along with Holotype in the same date.

**Affinity :** *Clupisoma bastari*, in having 52-54 anal rays, significantly differs from *C. montana*, *C. garua*, *C. prateri* and *C. naziri*, in which there are 41-43 rays, 29-36 rays, 40-44 rays and 40-47 rays respectively. This new species also differs in having the maxillary barbels extending up to anal fin insertion. The maxillary barbels extending upto middle of pelvic in *C. prateri*, in *C. montana* it extends beyond pectoral base, in *C. naziri* the maxillary barbels extend upto base of pelvic or little beyond and in *C. garua* the maxillary barbel reaches the outer margin of pelvic fin. In having the abdominal edge keeled from vent to thorax, it differs from *C. montana* and *C. naziri* where abdominal edges are rounded. It comes in between *C. garua* and *C. prateri* where the abdominal edge is keeled between pelvic and vent and abdominal edge keeled throughout.

Key to the species of *Clupisoma*

1. Abdominal edge keeled either throughout or between pelvic and vent, or between vent and thorax, maxillary barbel extending beyond pectoral base or to the base of anal ; pectoral reaching or not reaching pelvic origin..... 3
- Abdominal edge rounded .... 2

2. maxillary barbel not extending beyond base of pectoral, pectoral reaching pelvic. Anal rays 41-43. ... .. *C. montana* Hora

- Maxillary barbel extending upto or behind the base of pelvic fin. Pectoral may or may not reach pelvic. Anal rays 40-47. .... *C. naziri* Mirza & Awan

3. Abdominal edge keeled throughout, pectoral reaching pelvic origin, maxillary barbel not reaching ventral, anal 40-44 ..... *C. prateri* Hora

- Abdominal edge keeled from vent to thorax ; pectoral not reaching pelvic origin, maxillary barbel reaching anal base, anal 52-54 ..... *C. bastari* sp. nov.

- Abdominal edge keeled between pelvic and ventral, pectoral not reaching pelvic origin, maxillary barbel reaching ventral, anal 29-36 ..... *C. garua* (Ham.)

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