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# **Short Communication**

# First report of a fish of the family Aploactinidae from West Bengal coast

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#### **Abstract**

The species i.e., *Cocotropus roseus* Day, 1875 have been reported for the first time from West Bengal coast on the basis of eight specimens collected from Shankarpur fishing harbour. The specimens were collected during winter along with some specimens of genus *Minous*.

Keywords: Cocotropus roseus, East Coast of India, New Record

# Introduction

The fishes of the family Aploactinidae are bottom dwellers and inhabit mostly shallow waters of rocky reefs and soft bottom trawling grounds in tropical to temperate Indo-Pacific waters (Poss and Eschmeyer, 1978; Imamura and Shinohara, 2008). The family Aploactinidae contains 17 genera and 48 species worldwide, 4 genera and 6 species from Indian waters (Gopi and Mishra, 2015). The genus Cocotropus Kaup, 1858 is having the maximum numbers of species (16-species) among all other genus reported in the family (Prokofive, 2010; Froese and Pauly, 2015). During the survey around Digha and adjacent areas of West Bengal coast on the ornamental fauna, eight specimens of velvet fish or Aploactinid fish were collected and subsequently identified as Cocotropus roseus Day, 1875. This present study reports first occurrence of family Aploactinidae along the West Bengal coast as well as reports the species Cocotropus roseus Day, 1875 from West Bengal coastal waters.

#### Material and Methods

Eight examples (33.9-51.4 mm) of *Cocotropus roseus* Day, 1875 were collected from Shankarpur fishing harbor where generally fishermen used to operate trawl net. Photograph was taken in fresh condition for observing

proper coloration. Method for measurement and count followed Imamura and Shinohara (2003). The specimens were deposited in Museum of MARC, ZSI, Digha with Regn no. F3482 and F3495. The abbreviation SL and HL represents standard length and head length respectively.

#### Results

Characters: D: XIV, 9; A: II, 7; P: 13; V: I, 3. Small sized fishes with body moderately and head strongly compressed (Figure 1); head length 34.85%-36.07% of SL. Scales absent and lateral line tube: 10-11. Dorsal fin origin vertical to middle of the eye, mouth oblique, lower jaw slightly longer than upper jaw; villiform teeth present on jaws and vomer but absent in palatines. Snout short, eye placed high up and its diameter 16.82%-17.03% of HL. Interorbital ridge converge posterior. Preorbital with two blunt spines, longer spine backwardly directed and reaches to the eyes, small spine also backwardly directed. Preopercular spine 4; opercular spine 3; a rough ridge passes across the suborbital region. Papilla present on lower jaw. Gill rakers 1+7, gill membrane free from isthmus. Dorsal fin single, continuous and dorsal fin origin vertical to middle of the eye. Anus just before origin of anal fin. Pectoral fin as long as head and reach upto the anus opening; ventral fin short reaching halfway to anus; caudal fin rounded.

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*Colour:* Body pinkish in colour with numerous grey spots; ventral part whitish. Edges of dorsal and anal fin whitish; pectoral and anal fin reddish; ventral fin whitish.

Distribution: Western Indian Ocean: India (Imamura and Shinohara, 2003) and Maldives (Randall and Anderson, 1993). In Indian coast this species was reported from Andhra Pradesh (Barman et al., 2004) and Coromandel coast (Type locality).



**Figure 1.** Cocotropus roseus Day, 1875 (42.4 mm SL).

## **Discussions**

Cocotropus roseus Day, 1875 was originally described by Day (1875) from Coromandel coast. This Least Concerned (LC) species mainly found in winter in the West Bengal coast along with species of genus Minous. Several studies (Manna and Goswami, 1985; Goswami, 1992; Talwar et al.,1992; Chatterjee et al., 2000; Das et al., 2007, Yennawar et al., 2015, Yennawar et al., 2017) have been carried out on Marine ichthyofauna diversity of West Bengal coast but the species of the family Aploactinidae has not yet been reported by any of the reports. This study first time reports family Aploactinidae along with species Cocotropus roseus Day, 1875 from west Bengal coast.

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