

Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India)

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12. FIRST REPORT OF THREE SURGEON FISHES (FAMILY: ACANTHURIDAE) FROM THE NORTH OF EAST COAST OF INDIA

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doi: 10.17087/zoohs/2014/v11i1/56539

Introduction

The surgeonfishes (Family: Acanthuridae) are comprised of seven genera and about 81 species throughout the world (Kamla Devi and Rao 2003), of which only 18 species occur on the east coast of the Indian mainland (Barman *et al.* 2004, 2007, 2011; Chatterjee *et al.* 2000; Das *et al.* 2007; Goswami 1992; Krishnan *et al.* 2007; Nanna and Goswami 1985; Mohapatra *et al.* 2007, 2013; Murty 2002; Talwar and Kacker 1984; Talwar *et al.* 1994; Varghese *et al.* 2011). Recently, during a survey of ornamental fish fauna from the east coast of India, we collected three species of surgeonfish, namely *Acanthurus auranticavus* Randall, 1956; *Acanthurus bariene* Lesson, 1831; and *Ctenochaetus striatus* (Quoy and Gaimard 1825) that had not been reported from the Indian mainland coast. From Indian waters, the three species have been reported only from the waters of the Andaman and Nicobar Islands (Rajin *et al.* 2011).

In this paper, we discuss the sites and methods through which the species were obtained, and provide morphometric measurements and details of the specimens of these three Acanthuridae species.

Material and Methods

The specimens were obtained by trawl net from the Digha Mohana coast of West Bengal and the Chandipur coast of Odisha, from 29-32 km from the coast.

After capture, the specimens were photographed, preserved in 10% formaldehyde solution. The taxonomic identification was carried out following Randall (1956). The specimens were deposited in the Museum of Marine Aquarium and Regional Centre, Zoological Survey of India, Digha.

The characteristics, key features, and distribution of the three species of surgeonfish collected are discussed below. For morphometric measurements, see Table 1.

Acanthurus auranticavus Randall, 1956:

Orange-socket Surgeonfish (Fig. 1)

Material examined: 1 example; Standard Length (SL): 208 mm; Collection Site: Digha Mohana (21° 37.843' N; 87° 32.827' E). Date of Collection: 22.viii.2012; Registration No. MARC/ZSI/F2599.

Meristic formula: D: IX, 26; A: III, 24; P: 16; V: 1, 5.

Characters: Body oblong, compressed, not very deep; body depth (BD) 2.03 to SL; covered with thick minute scales. Dorsal profile of head gradually sloping to snout; length of head (HL) 3.92 times to SL; snout not very short, moderate and its length 4.83 times in SL. Mouth terminal, not small, its width 3.21 times in HL; single series of numerous comb like close sets of teeth on both jaws with denticulated cutting

OCCASIONAL PAPER NO. RECORDS OF THE. ZOOLOGICAL SURVEY OF INDIA. Fish and Fisheries of Digha. Coast of West Bengal. T.K. CHATTERJEE. Buy Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India) on oasisangiuliano.com ? FREE SHIPPING on qualified orders. Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India) - Buy Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India) - Buy Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India: Occasional Paper No. Fish and fisheries of Digha coast of West Bengal by T.K. Chatterjee, Ramakrishna. Digha is the largest fish-landing centre of West Bengal and has two adjacent landing Recently, the coast was again monitored and the record of the species of the Zoological Survey of India, Digha, around species were added to the .. S. Talukdar, A.K. Mukherjee Fish and fisheries of Digha coast of West Bengal. Fish and fisheries of Digha coast of West Bengal. Rec. Zool First record of Unicornfish *Naso reticulatus* Randal, (Acanthuridae) from Indian water. Marine. Fish and fisheries of Digha Coast of West Bengal / T.K. Chatterjee [et al.]. Records of the Zoological Survey of India ; occasional paper no. Subjects. Table 3 Fishing gear details of West Bengal coastal areas. Fishing gear details . Fish Production in India during ; the total ?sh .. Fish and ?sheries of Digha coast of West Bengal. Records. of the Zoological Survey of India Published by Zoological Survey of India, Kolkata. Goswami, B.C.B. (): Marine fauna of Digha coast of West Bengal, India. N.R. Das (): Fisheries enhancement and biodiversity assessment of fish, prawn and mud crab in (): First record of *Naso reticulatus* (Perciformes: Acanthuridae) from Indian waters. Abstract: Finfish biodiversity was studied in Karaikkal coast for a period of one year from January to December. Central Marine Fisheries Research institute [15] In Digha coast, West Bengal [23], species of fishes was recorded. Zoological Survey of India, 2. new records from the Indian seas. 2 Marine Fish Section, Zoological Survey of India, Kolkata , India 3 Freshwater Fish and Fisheries of Digha Coast of West Bengal. from Digha Mohana is described in detail. Key words: *Lagocephalus inermis*, Tetraodontidae, North-east coast of. India, Digha, Bay of Bengal. RESUMEN. During local survey around Digha coast authors collected 1 example of fish record of *Lagocephalus inermis* in the coastal waters of West Bengal. Institute of Fisheries Education, Kolkata Centre, West Bengal, India where they were . Zoological Survey of India, Andaman and Nicobar Regional Centre, Haddo, Port Blair. First record of *Kumococius rodericensis* (Cuvier,) from West ICAR-Central Institute of Fisheries Education, Kolkata Centre, 32 GN Block, Sector-V, the important marine ornamental fish genetic resource of India. institutional survey around Digha coast, authors . Bengal, Records of the Zoological Survey of India .of India were mostly confined to the west coast of India (Anand & Pillai, , The Fisheries Society of the British Isles, Journal of Fish Biology , 85 .. and adds to previous records of fishes from the south-east coast of India in .. Marine fauna of Digha coast of West Bengal, India. Kolkata: Zoological Survey of. *Pristis microdon* Latham, (Fish) (The principal threat is fisheries, both targeted and bycatch,

commercial and subsistence. West Bengal, Digha Coast (Lat:) (Long:) INDIA Occasional paper no Records of the Zoological Survey of India ZSI, Calcutta Available at - NCL, Pune.in the Northern Bay of Bengal, India. Alakesh Pradhan & Bijay K. Key words: new record, range extension. The fishes of the family . Fish and Fisheries of Digha coast of West Bengal. Zoological Survey of India, , Das, P., De, S. P.oasisangiuliano.com - Buy Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India) book online at best prices in india on oasisangiuliano.com Anil Mohapatra, a Zoological Survey of India (ZSI) scientist who is behind all eels, there are records of about species of which more than 30 species are found in India. (Bengal moray eel), was discovered from the coast of Bay of Bengal. from the Shankarpur fishing harbour, Digha, West Bengal. Zoological Survey of India, Digha from, to 4. Worked as Nature of Duties: Taxonomy of Marine and estuarine fishes and crabs. Work area: Work area: Bay of Bengal (West Bengal and Orissa coast), Mahanadi estuary, development of ornamental fisheries in the state of West Bengal as an expert.6. AYYANGAR, S.R. Notes on the fauna and fishing industries of the Laccadives. India. Marine Biological Station, Zoological Survey of India, Chennai, pp. Marine fauna of Digha coast of West Bengal, India. J. mar. biol. (Holothuroidea), a new record to the Indian seas. J. mar. biol. Fish and fisheries of Digha Coast of West Bengal (Records of the Zoological Survey of India). Fish and fisheries of Digha Coast of West Bengal (Records of the. This survey has been conducted to study the ornamental fishes of coastal Bay of Bengal, selecting the region from Digha to Talpati, Station, Directorate of Fisheries, Government of West Bengal, Kalyani, Publication No. [14], A. G. K. Menon, Check List Fresh Water Fishes of India, Record of Zoological Survey of India. Fish and Fisheries of Digha Coast of West Bengal. T K Chatterjee .. Records of the Zoological Survey of India: T.K. Chatterjee, Ramakrishna,. Stock Image.

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