

NATIONAL BIORESOURCE DEVELOPMENT BOARD

Dept. of Biotechnology
Government of India, New Delhi

For office use:

MARINE BIORESOURCES

FORMS DATA ENTRY: Form- 1(general) Ref. No.:
(please answer only relevant fields;add additional fields if you require)

Fauna : <input checked="" type="checkbox"/>	Flora	Microorganisms
General Category : Invertebrate (zooplankton) Ostracoda		
Scientific name & Authority : <i>Metaconchoecia rotundata</i> (Muller), 1890 Common Name (if available):		
Synonyms	Author(s)	Status
<i>Conchoecia rotundata</i>	Muller	1890
<i>Conchoecia rotundata</i>	Deevey	1968
<i>Metaconchoecia rotundata</i>	Poulsen	1973
Classification:		
Phylum: Arthropoda	Sub- Phylum	
Super class	Class: Crustacea	Sub- Class: Ostracoda
Order: Myodocopa	Sub Order: Halocypridina	
Super Family:	Family: Halocyprididae	Sub-Family: Conchoecinae
Genus: <i>Metaconchoecia</i>	Species: <i>rotundata</i>	
Authority: Muller		
Reference No. Muller, G.W., 1890. Uber Halocypriden. <i>Zool. Jb. Abt. System.</i> , 5 : 253-280.		
Geographical Location: Recorded from the Atlantic, Pacific and Indian Oceans. The species observed in the entire Arabian sea, Red sea and in the Bay of Bengal.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity : 31.1-37.4 ‰

Brackish : Yes/ No

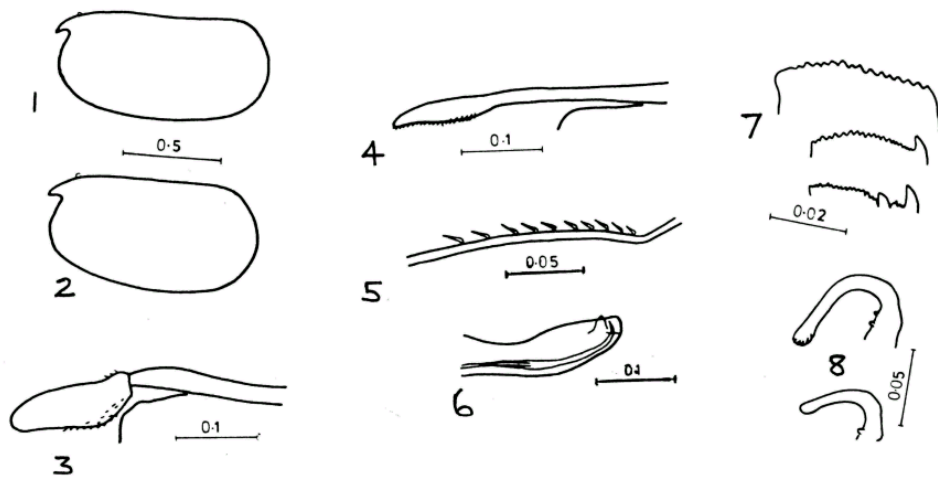
Migrations :

Temperature : 10.1-30.5 °C

Salt water : Yes ✓ / No

Depth range :

Picture (scanned images or photographs of adult / larval stages)



Metaconchoecia rotundata (Figs. 1-8)

Fig. 1. Male – carapace, lateral view

Fig. 2. Female – carapace, lateral view

Fig. 3. Male – frontal organ

Fig. 4. Female – frontal organ

Fig. 5. Male – armature of 'e' bristle of first antenna

Fig. 6. Male – copulatory limb

Fig. 7. Male – tooth-lists of mandible

Fig. 8. Male – right and left clasping organs

DATA ENTRY FORM: Form- 2(Fish / shellfish / others)
(please answer only relevant fields ; add additional fields if you require)
Form –1 Ref.No.:

IMPORTANCE

Landing statistics (t/y) : from to Place : Ref . No. :
Main source of landing: Yes/ No Coast: east/ west
Importance to fisheries:
Main catching method :
Used for aquaculture : yes/ never/ rarely
Used as bait : yes/no/ occasionally
Aquarium fish : yes/ no/ rarely
Game fish : yes/ no
Dangerous fish : poisonous/ harmful/ harmless
Bioactivity : locally known/ reported/ not known Details:
Period of availability : Throughout the year – yes/ no If no, months:

SALIENT FEATURES :

Morphological:

Diagnostic characteristics:

Carapace:- Length 0.9 to 1.1 mm. Height 46% of length in male and 53% in female. Posterior and ventral margins and the corners rounded. Right asymmetric gland opens close to the postero-dorsal corner and the left one just behind the rostrum.

First antenna:- Male: The 'a' bristle curved proximally and only a little shorter than the limb. The 'b' and 'd' bristles shorter than 'e' bristle. The 'e' bristle furnished with 10-11 pairs of proximally pointing spines decreasing in length distally. The 'e' bristle is distinctly bent distally to its armature.

Second antenna:- Male: Protopodite about 50% of carapace length. The 'a' and 'b' bristles of endopodite are longer and less curved than in female. The 'c' and 'd' bristles extremely short. The 'f' and 'g' bristles 3 times as long as the irregularly curved 'h', 'i' and 'j' bristles and have their distal half a little flattened and hyaline. In female these 5 bristles are more or less of the same length.

Mandible:- Toothed edge of coxale with about 15 teeth with the anterior one flattened. Remaining teeth are rather small and of different shape and size. Distal tooth list with one large and about 20 small teeth. Proximal tooth list has 2 or 3 large teeth with smaller teeth in between them posteriorly and about 15 smaller ones.

Maxilla:- There is no basal bristle. Endopodite with 4 bristles anteriorly, three posteriorly and one laterally.

Copulatory organ:-Posterior margin is convex and the tip is obliquely rounded.

Furca:- Unpaired bristle present behind the furcal claws.

Frontal organ:- Male: Shaft ends level with the end of the first antenna. Capitulum is deep with its proximal one-fourth part, bent at an angle with the distal part. The tip is rounded. Hairs present, throughout ventrally and only few are present dorso-proximally.

Female: Frontal organ is long and straight, capitulum, has hairs ventrally and the distal end is slightly bent downwards and has a rounded tip.

Sex attributes:

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks: What Muller (1906) described as *Conchoecia rotundata* was later on found to consist of 3 different species. From its, Iles (1963) separated *C. skogsbergi* and *C. teretivalvata*. The species *M. rotundata* can be identified by considering mainly the armature of the 'e' bristle of first antenna and its relative length with 'b' and 'd' bristles.

Size and age:

Maximum length (cm) (male / female/ unsexed)

Ref. No.:

Average length (cm) (male / female / unsexed)

Ref. No.:

Maximum weight : (g) (male / female / unsexed)

Ref. No.:

Average weight : (g) (male / female / unsexed)

Ref. No.:

Longevity (y) (wild) : (captivity)

Ref. No.:

Length / weight relationships:

Eggs and larvae:	Ref.
No.Characteristics:	
Abundance:	
Biochemical aspects:	
Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash	Ref. No.
Electrophoresis:	Ref. No.
SPAWNING INFORMATION:	
Locality:	Main Ref:
Season:	
Fecundity:	
Comment:	
<p>MAJOR PUBLICATIONS (INDIAN): (include review articles, monographs, books etc.) George Jacob, 1977. Studies on planktonic ostracods of the Northern Indian Ocean. <i>Ph.D Thesis, University of Cochin</i>, 184pp. George, J and Vijayalakshmi Nair, R., 1980. Planktonic ostracods of the northern Indian Ocean. <i>Mahasagar-Bull. Natn. Inst. Oceanogr.</i>, 13(1): 29-44. Rosamma Stephen and Meenakshikunjamma, P.P., 1996. Ostracods of Andaman Sea. <i>Proceedings of the Second Workshop on Scientific Results of FORV Sagar Sampada</i>, 197-203.</p>	
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<p>ACKNOWLEDGEMENT: (List of persons who contributed , modified or checked information)</p>	