

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>Microconchoecia curta</i> (Lubbock), 1860 Common Name (if available):		
Synonyms	Author(s)	Status
<i>Conchoecia curta</i>	Lubbock	1860
<i>Microconchoecia clausii</i> var. <i>similis</i>	Claus	1891
<i>Conchoecia curta</i>	Muller	1906
<i>Conchoecia curta</i>	Skogsberg	1920
<i>Conchoecia curta</i>	Deevey	1968
<i>Microconchoecia curta</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>Microconchoecia</i>	Species: <i>curta</i>	
Authority: Lubbock		
Reference No. Lubbock, J., 1860. On some oceanic Entomostraca collected by Captain Toynbee. <i>Trans. Linn. Soc. London.</i> 23 : 173-197.		
Geographical Location: Recorded from the Atlantic, Pacific and Indian Oceans. In the Indian Ocean found off Somali and Arabian coast, off south west coast of India and southern Bay of Bengal.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity : 32.0-36.9 ‰

Brackish : Yes/ No

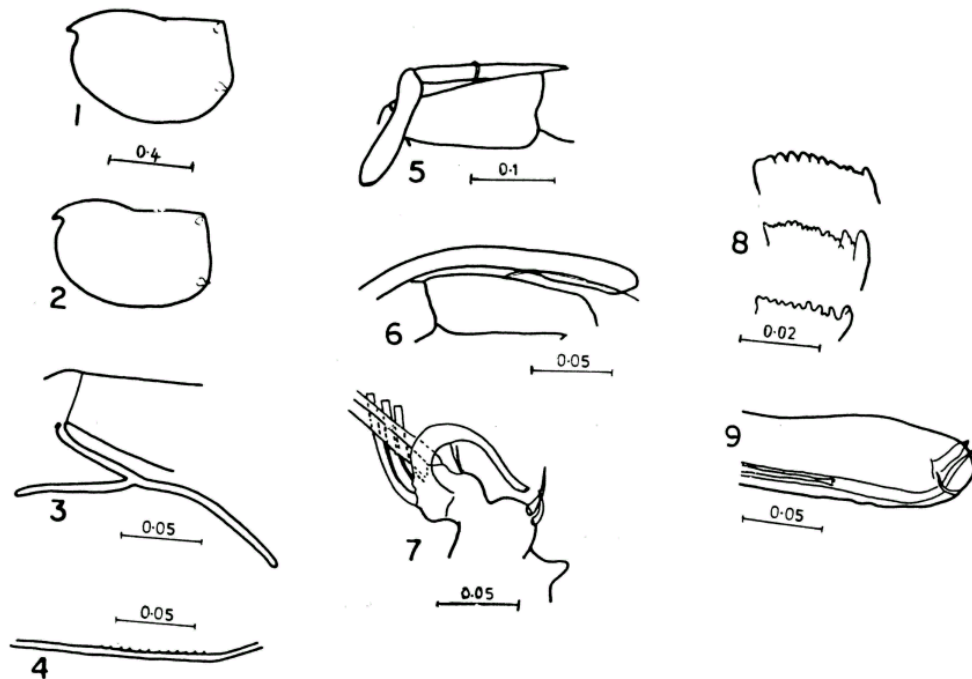
Migrations :

Temperature : 11.5-30.5 °C

Salt water : Yes ✓ / No

Depth range :

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



Microconchoecia curta (Figs. 1-9)

Fig. 1. Male – carapace, lateral view Fig. 2. Female – carapace, lateral view

Fig. 3. Male- 'a' bristle of first antenna

Fig. 4. Male – armature of 'e' bristle of first antenna

Fig. 5. Male – frontal organ Fig. 6. Female – frontal organ

Fig. 7. Male – endopod of right second antenna

Fig. 8. Male – tooth-lists of mandible Fig. 9. Male – copulatory limb

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 0.7 to 0.9 mm. Height two-third of its length. Postero-dorsal corner distinct. Postero-ventral corner rounded. Carapace reticulated. Right asymmetric gland opens on the posterior margin dorsally of the posero-ventral corner, left one on the usual place.

First antenna:- Male: The hyaline 'a' bristle is forked. The 'b', 'd' and 'e' bristles equally long. The 'e' bristle with 13 spinules. The 'b' and 'd' bristles with a few spines.

Female: The dorsal bristle of the second segment only slightly shorter than this segment.

Second antenna:- Male: Protopodite about half as long as shell. Subequal 'a' and 'b' bristles very much curved. The 'g' bristle is longer than 'f' bristle and flattened distally. The 'h' bristle has a little swollen base of spinous nature. Right clasping organ curved with a broad base and narrow distal end.

Mandible:- Toothed edge of pars incisiva of coxale with 10-12 teeth. Distal tooth list with 2 large teeth, one of wich is serrate and about 15 small teeth. Proximal tooth list with about 10-12 irregular teeth decreasing in size. Masticatory pad divided into 2 (or 3) ridgesd; 2 spines also present at its base. Two bristles of the 2nd endopodite segment comparatively long. Second and third segment with group of hairs.

Maxilla:- Basale without any bristle. First endopodite segment with 6 anterior and 4 posterior bristles.

Copulatory limb:- It has a rounded end with the pointed appendage protruding out.

Furca:- Claws bare. Unpaired bristles absent.

Frontal organ:- Male: Shaft reaches about the distal end of the second segment of first antenna. Capitulum somewhat narrow at the middle and has a rounded end.

Female: Not separated into shaft and capitulum and is only as long as the first antenna. It has a rounded end.

Sex attributes:

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

Only one species of the genus *Microconchoecia* is present in the International Indian Ocean Expedition collections. The unique feature of having forked bristle on the first antenna, makes *Microconchoecia*, a well defined genus.

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:	
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, 184pp.</i> 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.	
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