

**NATIONAL BIORESOURCE DEVELOPMENT BOARD**

Dept. of Biotechnology  
Government of India, New Delhi

For office use:
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**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>Paraconchoecia procera</i> (Muller), 1894 Common Name ( if available):		
Synonyms	Author( s)	Status
<i>Conchoecia procera</i>	Muller	1894
<i>Conchoecia procera</i>	Deevey	1968a
<i>Conchoecia procera</i>	Angel	1971
<i>Paraconchoecia procera</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>Paraconchoecia</i>	Species: <i>procera</i>	
Authority: Muller		
Reference No. Muller, G.W., 1894. Die Ostracoden des Golfes von Neapel und der Angrenzenden Meerco-abschnitte. <i>Fauna Flora Golf. Neapel</i> , <b>21</b> : 1-404.		
Geographical Location: Reported from Atlantic, Indian and Pacific Oceans. In the Indian Ocean this species is distributed throughout the Arabian Sea and the Bay of Bengal as well as in the Red Sea.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity : 31.1-37.4‰

Brackish : Yes/ No

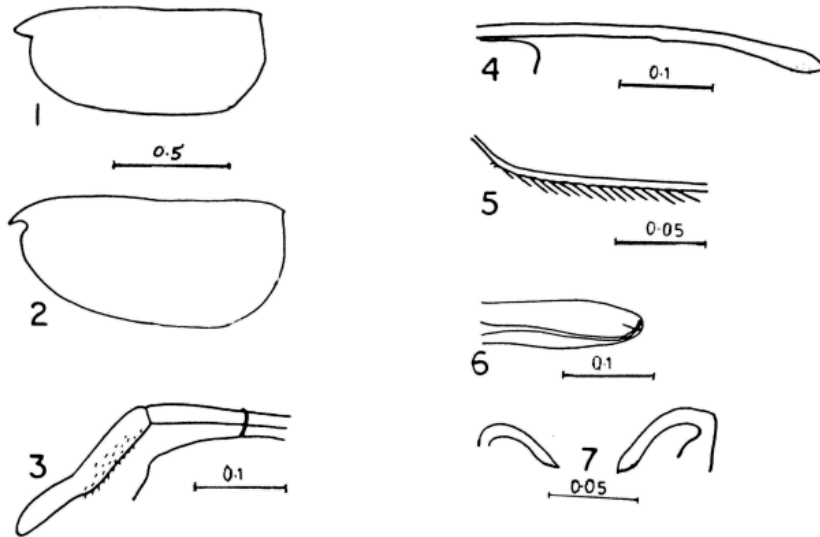
Migrations :

Temperature : 10.2-30.5°C

Salt water : Yes ✓ / No

Depth range :

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



*Paraconchoecia procera* (Figs. 1-7)

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 – left and right clasper

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:

Sex attributes:

Descriptive characters:

Carapace:- Length 0.95 to 1.05 mm in male and 1.05 to 1.15 mm in female. Height about 47% of length. Dorsal margin almost straight and posterior margin smoothly rounded. Postero-dorsal corner of right valve with a small spine, opening of the right asymmetric gland very prominent.

First antenna:- Male – The ‘a’ bristle as long as the limb itself and ‘c’ bristle very short. The ‘e’ bristle slightly longer than ‘b’ and ‘d’ bristles provided with 16 to 17 pairs of spines, decreasing in length proximally and 2 distally pointing spinules in addition to it. Relative length of the stem is about 36%. In female, stem is shorter, only one-third of the frontal organ.

Second antenna:- The ‘a’ bristle of endopodite half as long as ‘b’ bristle, both provided with hairs. The more curved right clasping organ and the smaller left clasping organ with a pointed lip.

Mandible:- Toothed edge of coxale with 10 teeth. Distal tooth list with 2 large and 10-12 smaller teeth and proximal tooth list one large and about 15 smaller teeth. First endopodite segment with one bristle on its ventral margin. Setation of the other segment is typical for the genus.

Maxilla:- First endopodite segment with 6 bristles on its anterior margin, 3 on its posterior margin and one laterally.

Fifth, 6<sup>th</sup> and 7<sup>th</sup> limbs are of usual type.

Caudal furca:- Claws gradually decreasing in length and with fine hairs, unpaired bristle absent.

Frontal organ:- Male – Shaft is as long as the first antenna. Capitulum slightly bent downwards , with small hairs proximally.

Female – The long capitulum, distal part of which is swollen and with a pointed end is not well differentiated from the shaft.

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

Angel (1971) described two species *Paraconchoecia microprocera* and *P. macroprocera* and shows that Muller might have confused *Paraconchoecia procera* with these 2 closely related species. The present identification of *P. procera* is based on the consideration of the important factors like size, shape of the frontal organ and the armature of the 'e' bristle.

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.
<b>SPAWNING INFORMATION:</b>	
Locality:	Main Ref:
Season:	
Fecundity:	
Comment:	
<b>MAJOR PUBLICATIONS (INDIAN):</b> (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> , <b>13</b> (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.	
<b>LIST OF INDIAN EXPERTS(Name, address, phone, fax, e-mail etc.)</b> 1. Dr. Jacob George Pulickal Soonoro Church Road Elamkulam Kochi – 682 020  2. Dr. Vijayalakshmi R. Nair HB/50, “Vijaya” South Bridge Avenue, Panampilly Nagar, Kochi - 682036 Tel: 0484 - 316999 Fax: 0484 - 324972 e – mail: <a href="mailto:vijayalakshmi40@hotmail.com">vijayalakshmi40@hotmail.com</a>  3. Dr. Rosamma Stephen Scientist, National Institute of Oceanography Regional Centre, Kochi – 682 014 Phone: 390814, Res – 203087 Email <a href="mailto:rosa@niokochi.org">rosa@niokochi.org</a>	
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