

**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>Platyconchoecia prosadena</i> (Muller), 1906 Common Name ( if available):		
Synonyms	Author( s)	Status
<i>Conchoecia prosadena</i>	Muller	1906
<i>Platyconchoecia prosadena</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>Platyconchoecia</i>	Species: <i>prosadena</i>	
Authority: Muller		
Reference No. Muller, G.W., 1906. Ostracoda. <i>Wiss. Ergebn Deutsch. Tiefsee-Exped.</i> , <b>8</b> : 29-154.		
Geographical Location: Recorded as a rare species from Atlantic, Pacific and Indian Oceans. These were also abundant in the Indian Ocean. In the IIOE collections mostly collected from the Bay of Bengal, except for a few stations in Arabian Sea.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine Salinity : 32.5-36.2‰

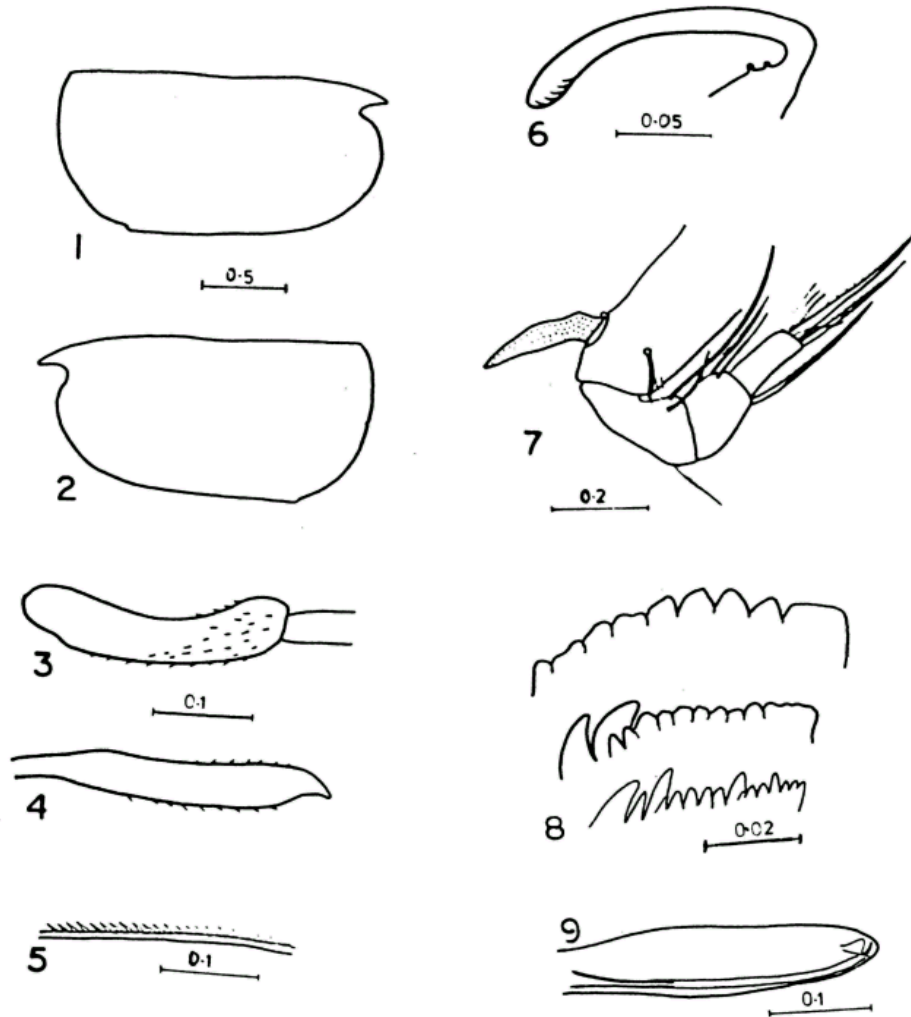
Brackish : Yes/ No

Migrations : Temperature : 12.1-29.7 °C

Salt water : Yes ✓ / No

Depth range :

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



*Platyconchoecia prosadena* (Figs. 1-9)

- 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 – right clasp organ          Fig. 7. Male – mandible  
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 of male 2.25 mm and female 2.5 mm. Height about half of its length. Antero-ventral and postero-ventral corners very much rounded. Right asymmetric gland opens on the ventral margin anteriorly of the postero-ventral corner on a distinct bulge. Lateral corner glands present.

First antenna:- Male 'e' bristle armed with about 10 pairs of spines distally and 10 spines in a single row proximally. Spines are proximally directed and placed at an acute angle with 'e' bristle.

Second antenna:- The 'h', 'i' and 'j' bristles with shafts. Right clasping organ is bent more than at right angle at its base and then curves smoothly ending in a slightly swollen, ridged rounded end. Two processes present on its inner side. The left clasping organ is straight beyond the angle.

Mandible:- Toothed edge of coxale with 9 teeth. Distal list with 2 large and about 12 smaller teeth. Proximal list with about 17 teeth, 2 large followed by 4 or 5 small teeth and then 2 large and the remaining smaller teeth. Exopod of the mandible is large and leaf-like with a pointed tip.

Sixth limb:- Endopod with one bristle, with swollen base.

Copulatory limb:- Long and slender with a narrow rounded end.

Furca:- Furcal claws suddenly decrease in length from fifth pair onward. The 7<sup>th</sup> and 8<sup>th</sup> pairs are exceptionally thin. Unpaired bristle absent. Usually 8 claws are present on a lamella. But in a male specimen, 9 claws were observed.

Frontal organ:- Male capitulum with narrow middle part and with a rounded end. Female capitulum with pointed, down turned tip, provided with only a few hairs.

Sex attributes:

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

The genus *Platyconchoecia* comprises of only one rare species viz. *P. prosadena*. The flattened exopodite of the mandible is a unique character along species of Conchoecinae, making the genus a well defined one.

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.	
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