

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>Conchoecetta acuminata</i> Claus, 1891 Common Name (if available):		
Synonyms	Author(s)	Status
<i>Conchoecetta acuminata</i>	Claus	1891
<i>Conchoecia acuminata</i>	Muller	1906
<i>Conchoecia acuminata</i>	Skogsberg	1920
<i>Conchoecia acuminata</i>	Deevey	1968
<i>Conchoecetta acuminata</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>Conchoecetta</i>	Species: <i>acuminata</i>	
Authority: Claus		
Reference No. Claus, C., 1891. Die halocypriden des Atlantischen Ocean und Mittelmeeres – Wien.		
Geographical Location: Recorded from the Atlantic, Pacific and Indian Oceans. It is not common in the northern Indian Ocean.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity : 32.3-35.4‰

Brackish : Yes/ No

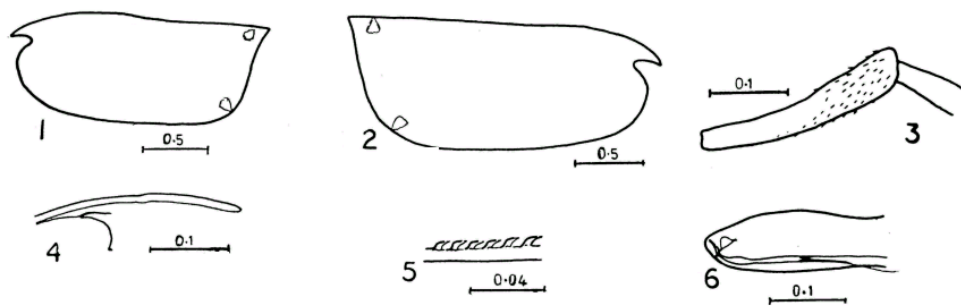
Migrations :

Temperature : 11.9-20.0°C

Salt water : Yes ✓ / No

Depth range :

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



Conchoecetta acuminata (Figs. 1-6)

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 antennae

Fig. 6. 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 2.0 to 2.2 mm in male and 2.4 to 2.8 mm in female. Height about 40% of length in male, only one-third of its length in female. In male posterior shell margin with a series of hairs. Postero-dorsal corner forms an acute angle. Asymmetric glands on the usual place.

First antenna:- Male: The 'e' bristle with about 20 pairs of spines having broad base and pointed tip.

Female: Dorsal bristle of the 2nd segment comparatively short.

Second antenna:- Male: Process mammillaris is not pointed. Distal two-third part of right clasping organ curved and at right angle to proximal part and straight in left clasping organ. The 'h', 'i' and 'j' bristles with uniform thickness.

Mandible:- Masticatory pad divided into 2 clear parts each provided with more than 6 thick and long spines. Pars incisive of coxale with 10 teeth. Distal tooth list with one large and 10 small teeth and proximal tooth list 10 teeth of varying size and shape.

Maxilla:- Basal bristle present. First endopodite segment with 5 bristles anteriorly, 3 posteriorly and one laterally. This segment possesses 5 or 6 short and sharp spines distally.

Fifth and sixth limbs do not show variation from the usual pattern.

Seventh limb:- Of the 2 sub-equal bristles, the longer one has a few short spines proximally.

Furca:- Claws gradually decrease in length, but the last 3 pairs are very thin. Unpaired bristle present behind the claws.

Copulatory limb:- Shape is somewhat similar to that of *P. decipiens* and *P. procera*.

Frontal organ:- Male: Shaft reaches the end of first antenna. Capitulus with a square out end and spines over the proximal half.

Female: Long and slender with uniform thickness but with a narrow end.

Sex attributes:

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

C. acuminata resembles *C. giesbrechti* in the shape of the shell. The female of the former species is distinguished by the acute angle of dorso-posterior corner and the pointed rostrum. The important differences between these 2 species is that the base of the 'h' bristle of second antennal endopodite is thin walled in *C. acuminata* and with a bulbous base in *C. giesbrechti*. Frontal organ in male has a square out end in *C. acuminata* whereas it is rounded in *C. giesbrechti*.

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.	
LIST OF INDIAN EXPERTS(Name, address, phone, fax, e-mail etc.)	
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: vijayalakshmi40@hotmail.com	
3. Dr. Rosamma Stephen Scientist, National Institute of Oceanography Regional Centre, Kochi – 682 014 Phone: 390814, Res – 203087 Email rosa@niokochi.org	
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