

**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 : Invertebrata (Zooplankton), Pelagic amphipods		
Scientific name & Authority: <i>Oxycephalus clausi</i> Bovallius, 1887. Common Name ( if available) :		
Synonyms:	Author(s)	Status
<i>Oxycephalus clausi</i>	Bovallius	1887 a, p. 35
<i>Oxycephalus tuberculatus</i>	Bate	1862, p.343, pl.54, fig.5
<i>Oxycephalus piscator</i>	Claus	1879 b, p.190
<i>Oxycephalus erythraeus</i>	Cecchini	1929, p.6
<i>Oxycephalus mancinni</i>	Cecchini	1929, p.7
Classification:		
Phylum: Arthropoda	Sub- Phylum: Mandibulata	
Super class:	Class: Crustacea	Sub- Class: Malacostraca
Super Order: Peracarida	Order: Amphipoda	Sub Order: Hyperidea
Super Family: Platysceloidea	Family: Oxycephalidae	Sub-Family:
Genus: <i>Oxycephalus</i>	Species: <i>clausi</i>	
Authority: Bovallius		
Reference No : Bovallius, C., 1887a. Systematical list of the Amphipoda Hyperidea. <i>Bihang till Kungliga Sevenska Vetenskapsakademiens Handlingar.</i> , <b>11</b> (16): 1-50.		
Geographical Location: A very widely distributed species, commonly seen in the world oceans including the Mediterranean and the Red Sea . Its geographical limits varied between 43 N and 41 47'S. In the Indian Ocean its distribution ranged from		
Latitude: 25°W to 120°E	Place:	
Longitude: 30°N to 40°S	State:	

Environment

Freshwater: Yes/ No

Habitat: Marine

Salinity:33-35%

Brackish : Yes/No

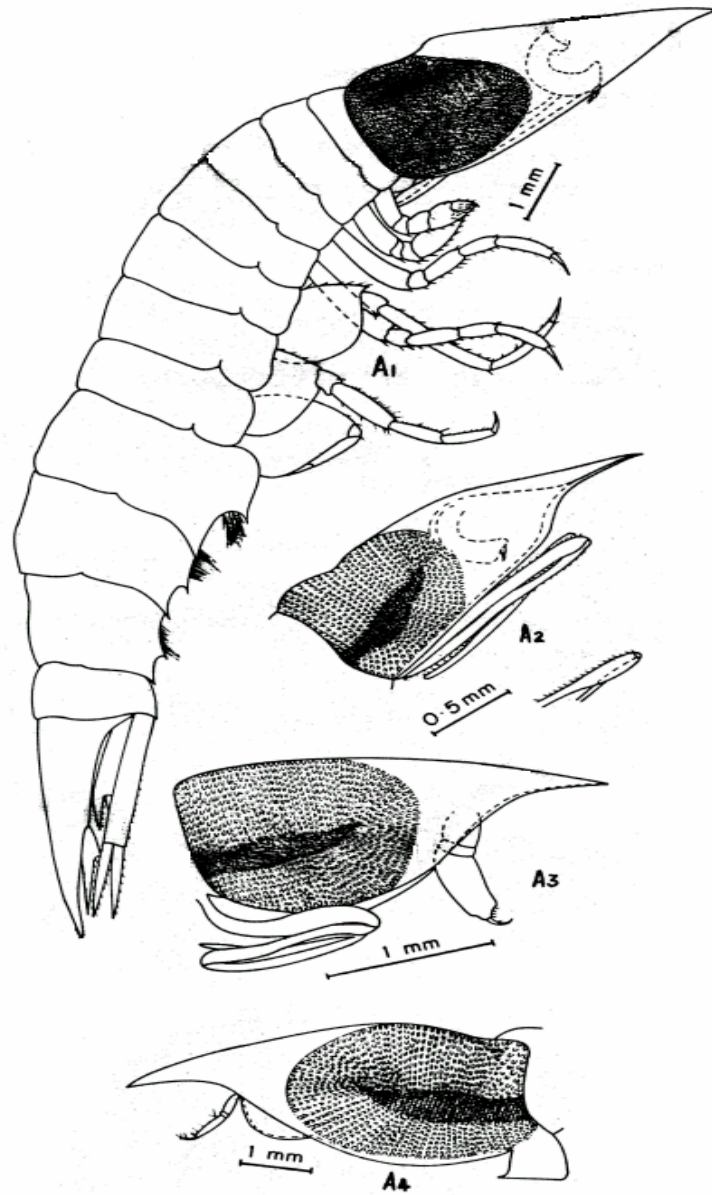
Migrations:

Temperature:20-28°C

Salt Water : Yes√/No

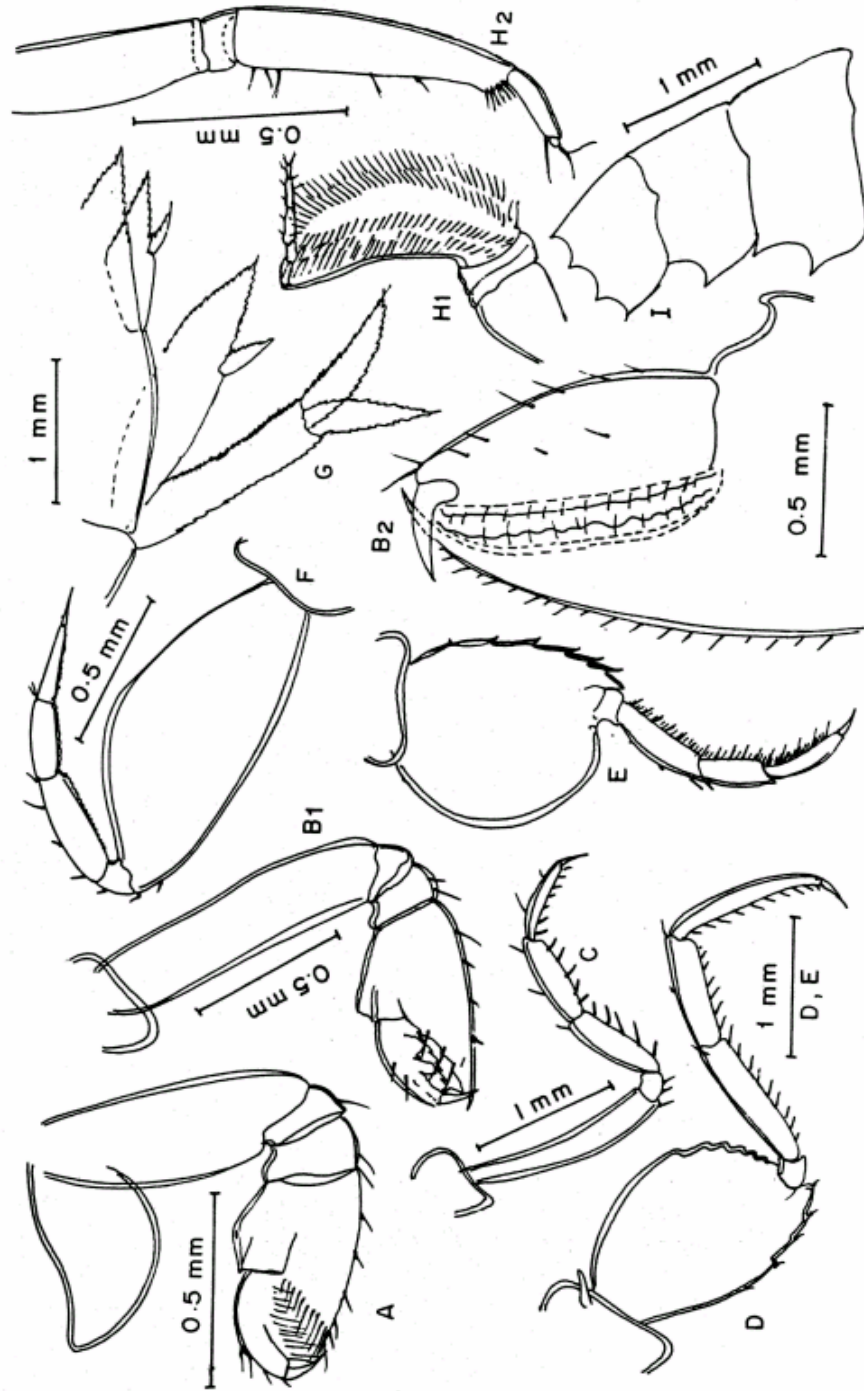
Depth range: 0-200

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



*Oxycephalus clausi*

A1 - adult male, A2 – cephalon (adult male),  
A3 – cephalon (juvenile male), A4 – cephalon (adult female).



*Oxycephalus clausi*

A, B1 & B2 – pereopods 1 and 2, C to F – pereopods 4 to 7,  
 G – Uropods and telson, H 1 – antenna 1, I – abdomen.  
 H 2 – antenna 2 (female).

DATA ENTRY FORM: Form -2 (Fish/ Shell fish/ Others ) Ref. No.:  
(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: Rostrum prominent. Carpus of pereopods 1&2 with outer distal tooth, cutting edge of the chela of pereopod 2 with high blunt teeth on the thumb and low cusps on the movable finger. Basis of pereopod 5 enlarged, clearly longer than broad, basis of 6<sup>th</sup> pereopod as long as broad and nearly circular. Pereopod 7 with elongate ovate basis. First 3 pleon segments regularly decreasing in depth backwards, each segment postero – laterally produced into a pair of sharp processes with border between the processes deeply concave.

Sex attributes : Dimorphic

Male: The 1<sup>st</sup> segment of the flagellum of antenna 1 in males has a characteristic projection in the distal part of the anterior margin.

Female: First antenna reduced, second absent.

Descriptive characters:

Meristic characteristics:

Feeding habit: Feeds on micro zooplankton

Main food:

Feeding type:

Additional remarks: The most diagnostic character of *O. clausi* is the presence of two spines separated by a deep concavity at the postero – lateral corner of pleon segments one to three . Equally characteristic is the presence of a blunt projection (male) or a strong spine (female) on the outer distal part of the carpus of pereopods one and two , particularly the latter and the strongly dentate cutting edge of the chela of the second pereopod of the females.

Size and age :

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

Ref. No.:

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

Ref. No.:

Male 8.28-34, Female 7.04-36.8, Juvenile 1.98to 7.6

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

Ref. No.:

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

Ref. No.:

Longevity (y) (wild) : (captivity)

Ref. No.:

Length/ weight relation ships:

Eggs and larvae : Ref.No.:  
Eggs are stored in the brood pouch and fully developed juveniles hatch out from the brood pouch.  
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.)

Pillai, N.K., 1966a. Pelagic Amphipoda in the collections of the Central Marine Fisheries Research Institute, India, Part 1, Oxycephalidae. In *Proceedings of the Symposium on Crustacea, I. Marine. Biological. Association of India*: 169-204.

Nair, K.K.C. and K.V. Jayalakshmy, 1992. Distribution of oxycephalidae (Hyperiidia – Amphipoda) in the Indian Ocean – A Statistical Study. *Oceanography of the Indian Ocean*, Oxford and IBH Publications, 201-210. Ed. By B.N. Desai.

Nair, K.K.C., 1992. Distribution, ecology and polymorphic behaviour of the genus *Oxycephalus* ( Hyperiidia, Oxycephalidae) in the Indian ocean. In: *Oceanography of the Indian Ocean*, edited by B.N.Desai, Oxford and IBH, New Delhi, 129- 142

Nair, K.K.C (1995) Taxonomic Features And Identification Of Oxycephalidae, *Mahasagar*, Vol.28. No 1&2.

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