

**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 amphipod		
Scientific name & Authority: <i>Oxycephalus longipes</i> Spandl 1927		
Common Name ( if available) :		
Synonyms:	Author( s)	Status
<i>Oxycephalus longipes</i>	Spandl	1927,p.181
Classification:		
Phylum: Arthropoda	Sub Phylum: Mandibulata	
Super class:	Class: Crustacea	Sub- Class: Malacostraca
Super Order: Peracarida	Order: Amphipoda	Sub Order: Hyperiiidea
Super Family: Platysceloidea	Family: Oxycephalidae	Sub-Family:
Genus: <i>Oxycephalus</i>	Species: <i>longipes</i>	
Authority: Spandl		
Reference No.: Spandal, H., 1927. Die Hyperiidien (Exkl. Hyperiiidea Gammaroidea und Phronimidae) der Dutchen Sudpolar- Expedition 1901-1903. <i>Deutsche sudpolar Expedition</i> 1901- 1903, <b>19</b> , Zoology, <b>11</b> : 145-287.		
Geographical Location: Originally recorded from the tropical part of Atlantic. Adult females are recoded for the first time from the Indian Ocean .		
Latitude: 09°10'N	Place: Southern Bay of Bengal	
Longitude: 85°13'E	State: Indian Ocean	

Environment

Fresh water : Yes/ No

Brackish : Yes/ No

Salt water : Yes✓/ No

Habitat : Marine

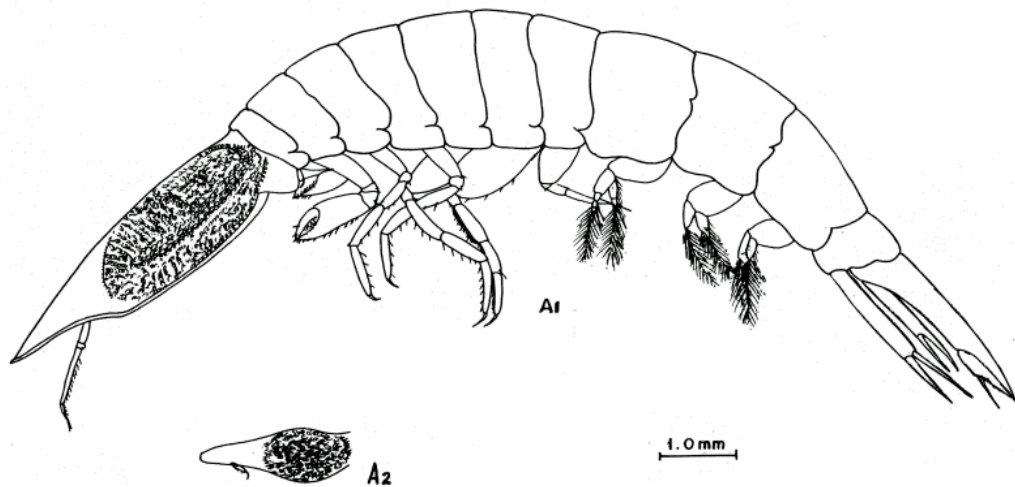
Migrations : Vertical

Depth range :0-200m

Salinity :33-35%

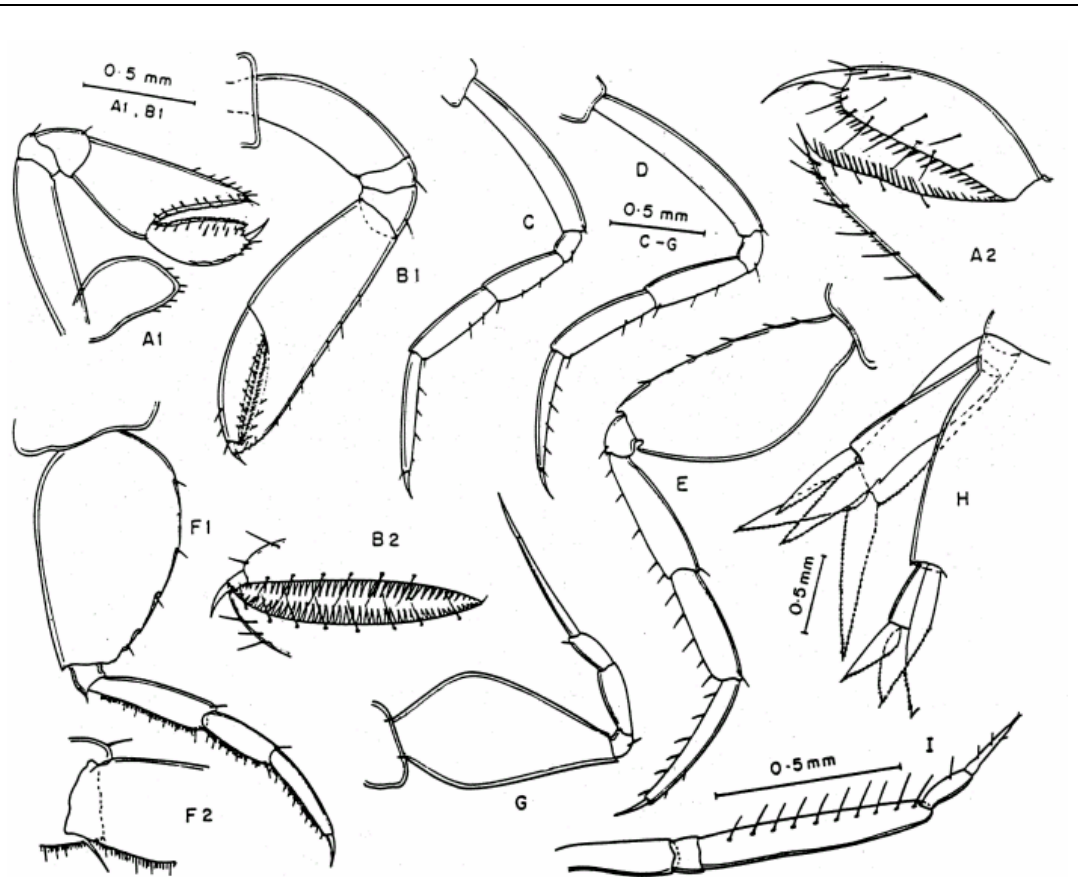
Temperature : 20-28°C

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



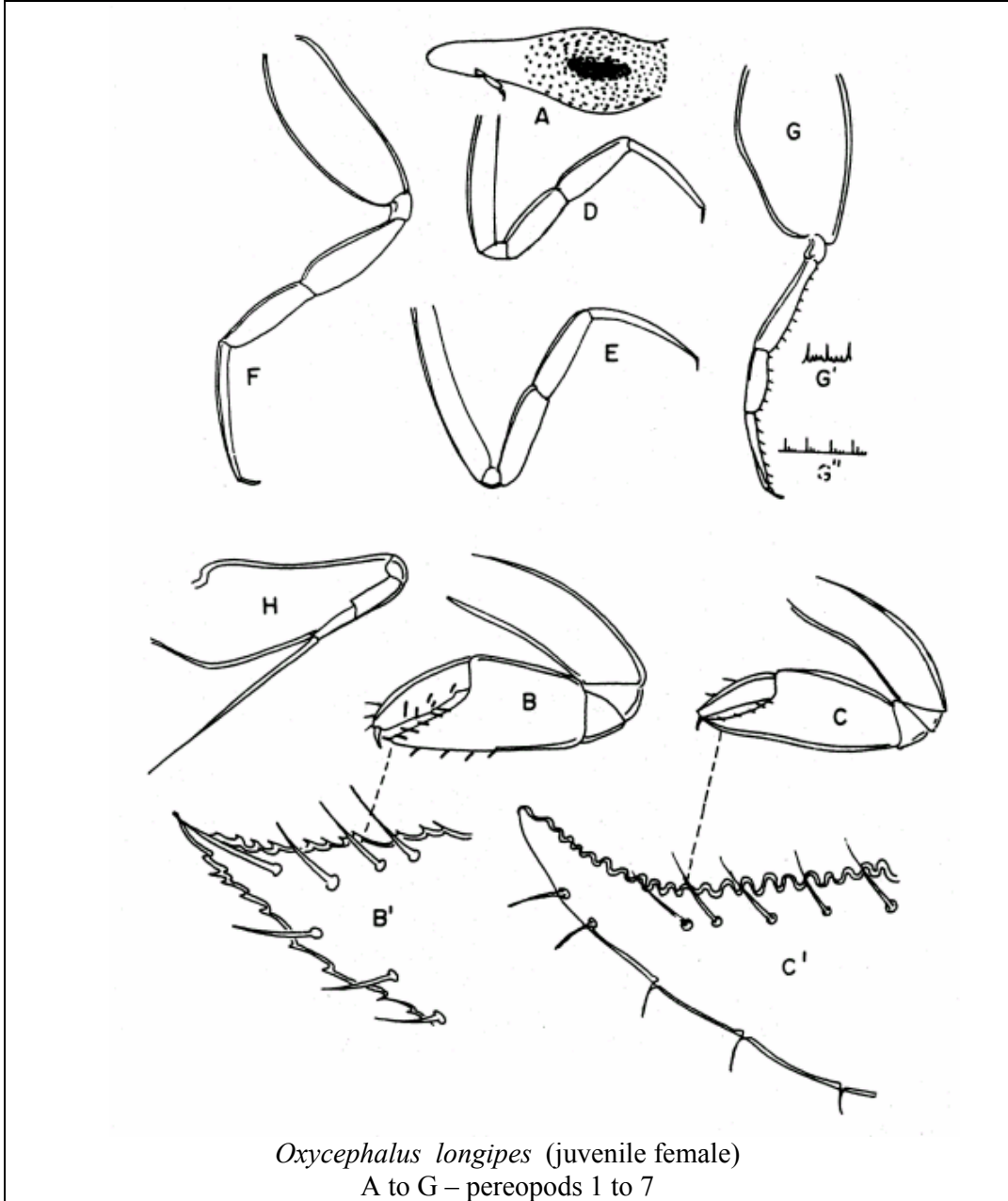
*Oxycephalus longipes*

A – adult female, B – cephalon (juvenile female)



*Oxycephalus longipes* (female)

A1 & A2 - pereopods 1, B1 & B2 - Pereopod 2, C to E - pereopods 3 to 5,  
 F1 & F2 - pereopod 6, G - pereopod 7, H - Uropods & telson, I - antenna 1.



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: Body moderately deep and elongated. Cephalon parallel sided for more than two thirds of its length and as long as pereon, rostrum short. First antenna in female six segmented with elongated peduncle, third peduncular segment with ten stiff setae. Carpus of perepod 1 broad and internally produced, cutting edges of carpus and propodus with a sharp row of spines; carpus of perepod 2 much longer than the rest of the limb, thumb like process clearly shorter than the segment proper, cutting edges of carpus and propodus with sharp denticulate spines. Third and 4<sup>th</sup> perepods sub-similar. Perepod 5,basis enlarged, inner convex and smooth. Perepod 6,basis nearly conical. Perepod 7, broadest at one-third distance from the base and further on steadily narrows, propodus extremely elongated and ends in a long dactylus. Uropods flattened; outer borders of protopod of the first uropod unarmed; endopod of first uropod does not reach the tip of telson. Telson roughly triangular and narrows the tip, the distal one- third of the borders serrated.

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 : Since its inception by Spandl, it has never been recorded from anywhere else. But Semanova in Vinogradov, *et al* has treated this species as valid. On the other hand from the illustrations of Spandl, the figure of cephalon shows signs of immaturity. However, the spindle shaped propodus of the seventh pereopod marks it distinct from other species of the genus except in the case of *O. latirostris*. The record of adult females from the Bay of Bengal and south east Indian Ocean (Nair , 1998) confirms its validity.

Size and age :

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

Ref. No.:

Average length (mm) male / female – 19.5, 15 )

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 relational ships:

Eggs and larvae: 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 Electrophoresis:	Ref. No.     Ref. No. Ref. No.
SPAWNING INFORMATION: Locality: Season: Fecundity: Comment:	Main Ref:
MAJOR PUBLICATIONS (INDIAN): (Include review articles, monographs, books etc.)  Nair, K.K.C, 1998. " <i>Oxycephalus longipes</i> Spandl, 1997- A valid species of the genus oxycephalus (Amphipoda, Hyperiidea, Oxycephalidae)." <i>Crustaceana</i> <b>71</b> , 5, 481-486.  Pillai, N.K., 1966a. Pelagic Amphipoda in the collections of the Central Marine Fisheries Research Institute, India, Part 1, Oxycephalidae. In <i>Proceedings of the Symposium on Crustacea, I. Marine. Biological. Association of India</i> : 169-204.  Nair, K.K.C. and K.V. Jayalakshmy, 1992. Distribution of oxycephalidae Hyperiidea Amphipoda) in the Indian Ocean – A Statistical Study. <i>Oceanography of the Indian Ocean</i> , Oxford and IBH Publications, 201-210. Ed. By B.N. Desai.	
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ACKNOWLEDGEMENT: (List of persons who contributed, modified or checked information)	