

NATIONAL BIORESOURCE DEVELOPMENT BOARD

Dept. of Biotechnology
Government of India, New Delhi

For office use:

MARINE BIORESOURCES

FORMS DATA ENTRY: Form- 1(general)

Fauna: <input checked="" type="checkbox"/>	Flora	Microorganisms																		
General Category: Invertebrata (Zooplankton), Pelagic amphipoda																				
<p>Scientific name & Authority: <i>Streetsia challenger</i> Stebbing</p> <p>Common Name (if available):</p> <table border="0"> <thead> <tr> <th>Synonyms:</th> <th>Author(s)</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td><i>Streetsia challenger</i></td> <td>Stebbing</td> <td>1888 p.1603, pl.207</td> </tr> <tr> <td><i>Oxycephalus pronoides</i></td> <td>Bovallius</td> <td>1887,p.36</td> </tr> <tr> <td><i>Streetsia pronoides</i></td> <td>Bovallius</td> <td>1890,p.84, pl.3</td> </tr> <tr> <td><i>Streetsia carinata</i></td> <td>Bovallius</td> <td>1890,p. .87,pl.3</td> </tr> <tr> <td><i>Streetsia stebbingi</i></td> <td>Chevreur</td> <td>1900,p.161,pl.18,fig.4</td> </tr> </tbody> </table>			Synonyms:	Author(s)	Status	<i>Streetsia challenger</i>	Stebbing	1888 p.1603, pl.207	<i>Oxycephalus pronoides</i>	Bovallius	1887,p.36	<i>Streetsia pronoides</i>	Bovallius	1890,p.84, pl.3	<i>Streetsia carinata</i>	Bovallius	1890,p. .87,pl.3	<i>Streetsia stebbingi</i>	Chevreur	1900,p.161,pl.18,fig.4
Synonyms:	Author(s)	Status																		
<i>Streetsia challenger</i>	Stebbing	1888 p.1603, pl.207																		
<i>Oxycephalus pronoides</i>	Bovallius	1887,p.36																		
<i>Streetsia pronoides</i>	Bovallius	1890,p.84, pl.3																		
<i>Streetsia carinata</i>	Bovallius	1890,p. .87,pl.3																		
<i>Streetsia stebbingi</i>	Chevreur	1900,p.161,pl.18,fig.4																		
<p>Classification:</p> <table border="0"> <tr> <td>Phylum: Arthropoda</td> <td>Sub Phylum: Mandibulata</td> <td></td> </tr> <tr> <td>Super class:</td> <td>Class: Crustacea</td> <td>Sub- Class: Malacostraca</td> </tr> <tr> <td>Super Order: Peracarida</td> <td>Order: Amphipoda</td> <td>Sub Order: Hyperiidea</td> </tr> <tr> <td>Super Family: Platysceloide</td> <td>Family: Oxycephalidae</td> <td>Sub-Family</td> </tr> <tr> <td>Genus: <i>Streetsia</i></td> <td>Species: <i>challenger</i></td> <td></td> </tr> </table> <p>Authority: Stebbing</p> <p>Reference No.: Stebbing, T.R.R., 1888. report on the Amphipoda collected by H.M.S. "Challenger" during the years 1873-1876. <i>Report on the Scientific Results of the Voyage of H.M.S. "Challenger", Zoology, 29: 1-1737.</i></p>			Phylum: Arthropoda	Sub Phylum: Mandibulata		Super class:	Class: Crustacea	Sub- Class: Malacostraca	Super Order: Peracarida	Order: Amphipoda	Sub Order: Hyperiidea	Super Family: Platysceloide	Family: Oxycephalidae	Sub-Family	Genus: <i>Streetsia</i>	Species: <i>challenger</i>				
Phylum: Arthropoda	Sub Phylum: Mandibulata																			
Super class:	Class: Crustacea	Sub- Class: Malacostraca																		
Super Order: Peracarida	Order: Amphipoda	Sub Order: Hyperiidea																		
Super Family: Platysceloide	Family: Oxycephalidae	Sub-Family																		
Genus: <i>Streetsia</i>	Species: <i>challenger</i>																			
<p>Geographical Location: This species common in Mediterranean was found distributed in the warm waters of all the ocean, more widely then <i>S. steenstrupi</i> and <i>S. mindanaonis</i> between 40 degree n and 45 degree s.</p> <table border="0"> <tr> <td>Latitude: 20°W to 120°E</td> <td>Place: Indian Ocean</td> </tr> <tr> <td>Longitude: 30°N to 40 °S</td> <td>State:</td> </tr> </table>			Latitude: 20°W to 120°E	Place: Indian Ocean	Longitude: 30°N to 40 °S	State:														
Latitude: 20°W to 120°E	Place: Indian Ocean																			
Longitude: 30°N to 40 °S	State:																			

Environment

Freshwater: Yes/ No

Habitat: Marine

Salinity:33-35%

Brackish: Yes/No

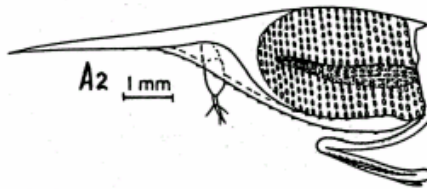
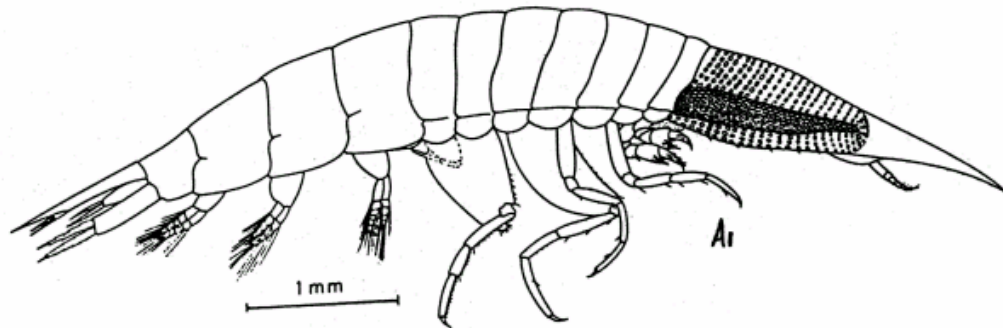
Migrations:

Temperature:20-28°C

Salt Water: Yes√/No

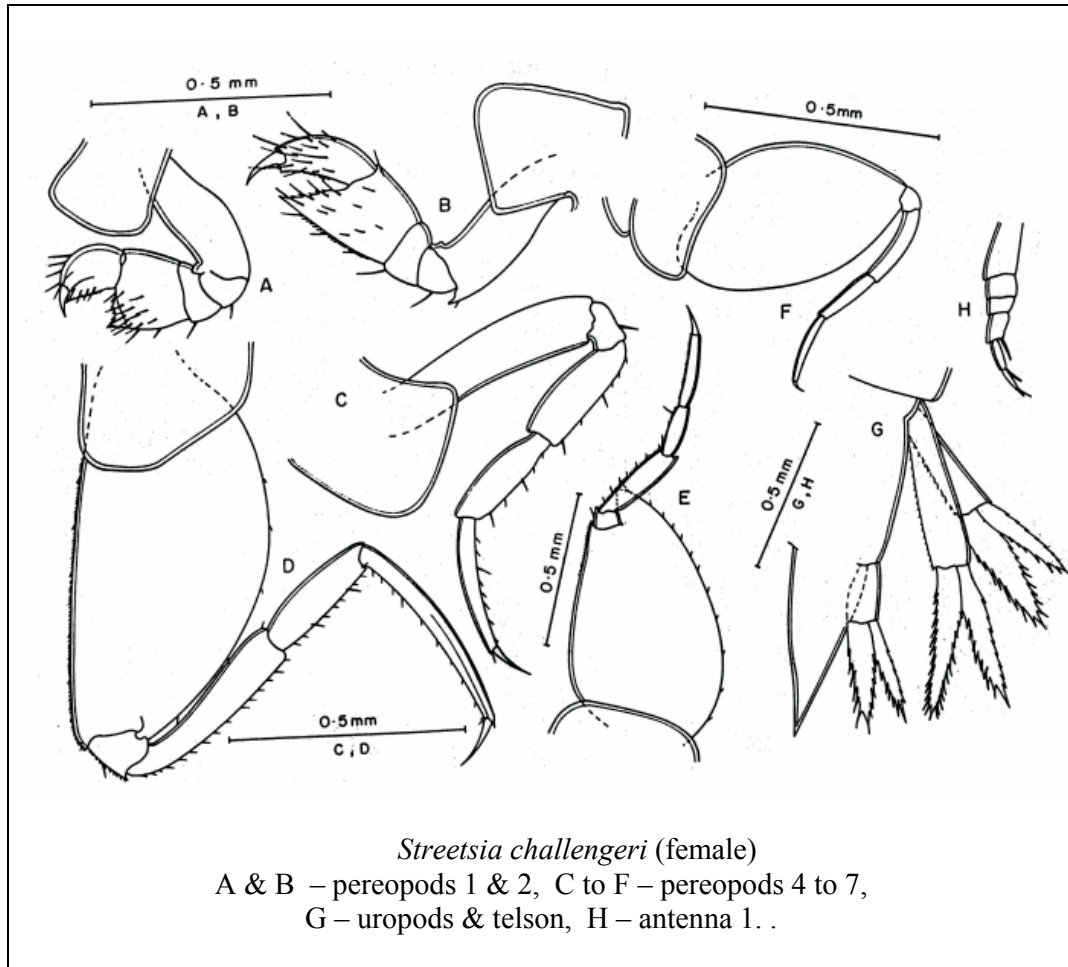
Depth range:0-200m

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



Streetsia challengerii

A1 – female, A2 – cephalon juvenile male.



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: Body elongated, cephalon regularly narrowing towards the tip of the rostrum, rostrum long with well-spaced spinnules. First three pleon segments successively becoming shallower backwards, their postero-lateral parts angular but not produced. Double pleon segment as long as telson. Carpus of perepod 1 long as broad, widening distal wards, its distal border nearly transverse, inner distal part expanded with feebly serrate borders and setose surface. Carpus of 2nd perepod broader than long, its inner and distal borders serrate, inner distal part drawn out into a triangular thumb terminating in a spine. Perepods 3 and 4 moderately flattened. Basis of 5th perepod with straight inner border and convex outer border; basis of 6th perepod with convex side narrowing distal wards, its lower distal part prolonged into a prominent conical process.

Sex attributes: Dimorphic

Male: The 1st 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: This species can be distinguished from its congeners by the conical prolongation of the inner distal part of the basis of the second pereopod and the extremely elongated telson which is clearly longer than the double pleon segment. But it should be pointed out that judging from IIOE collection these two characters are subject to some variations. Author's specimen from Bay of Bengal show a high degree of armature on the carpus of the preopod one and two than those from other parts of the Indian Ocean.

Size and age:

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

Ref. No.:

Male 8.0 to 19.54, Female 3.0 to 20.7, Juvenile 3.49 to 7.2

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 relation ships:

<p>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.</p>
<p>SPAWNING INFORMATION: Locality: Main Ref: Season: Fecundity: Comment:</p>
<p>MAJOR PUBLICATIONS (INDIAN): (Include review articles, monographs, books etc.)</p> <p>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.</p> <p>Nair, K.K.C. and K.V. Jayalakshmy, 1992. Distribution of oxycephalidae (Hyperidea – 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.</p> <p>Nair, K.K.C (1995) Taxonomic Features And Identification Of Oxycephalidae, <i>Mahasagar</i>, Vol.28. No 1&2.</p> <p>LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.)</p> <p style="padding-left: 40px;">Dr.K.K.C.Nair Scientist-In-Charge R.C. of NIO, Post Box-1616 Kochi – 682 014</p> <p style="padding-left: 40px;">Dr. N. Krishna pillai “Radhika” 65- Champaka Nagar Bakery Junction Trivandrum-695 001</p> <p>ACKNOWLEDGMENT: (List of persons who contributed, modified or checked information)</p>