

NATIONAL BIORESOURCE DEVELOPMENT BOARD

Dept. of Biotechnology
Government of India, New Delhi

For office use:

MARINE BIORESOURCES

FORMS DATA ENTRY: Form- 1(general)

Fauna: √	Flora	Microorganisms
General Category: Invertebrata (Zooplankton) Pelagic amphipod		
Scientific name & Authority: <i>Scypholanceola aestiva</i> (Stebbing, 1888) Common Name (if available): Synonyms: Author(s) Status <i>Scypholanceola aestiva</i> Stebbing 1888:1309 (part.) (Lanceola).-vanhoeffeni Woltereck 1909: 161, 1927:65 (part.) (Lanceola).-vanhoeffeni Pirlot 1939:8 (part).-clausi Woltereck 1909:161 - richardi Chevreux 1920:10,1935:135 - richardi Pirlot 1930:45		
Classification: Phylum: Arthropoda Sub- Phylum: Mandibulata: Super class: Class: Crustacea Sub- Class: Malacostraca Super Order: Peracarida Order: Amphipoda Sub Order: Hyperiidea Super Family: Lanceoloidea Family: Lanceolidae Sub-Family Genus: <i>Scypholanceola</i> Species: <i>aestiva</i> Authority: Stebbing Reference No.: Stebbing, T. R. 1888. Report on the Amphipoda collected by H.M.S. "Challenger" during the years 1873-76. <i>Rept. Sci. Res. "Challenger", Zool.</i> , vol. 29 (pt. 1-3), 1737 pp.		
Geographical Location: A widely distributed species, <i>S. aestiva</i> is known from various regions of the Atlantic Ocean (from 46°29' N, 5°18' W to 33°53' S, 9°26' E), from the Indian Ocean in its tropical parts, and from Atlantic waters right up to the coastal regions on the Davis Sea (65° S), In the Pacific Ocean it is common in the northern parts, including the Sea of Okhotsk and the Bering Sea; in the tropical regions it is not found in the western part of the ocean (south of 27-30° N) but is present in notal 50° S, 82° W0 and in Antartica waters (64° 03' S, 161° 51' E). It inhabits a wide range of meso-and bathypelagic depths. Found in sectional collections from depths greater than 500m to 2,000-3,500m but the highest frequency was recorded for the 1,000-1,500m layer.		
Latitude:	Place:	

Longitude:	State:
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Environment

Freshwater: Yes/ No

Habitat: Marine

Salinity:

Brackish: Yes/No

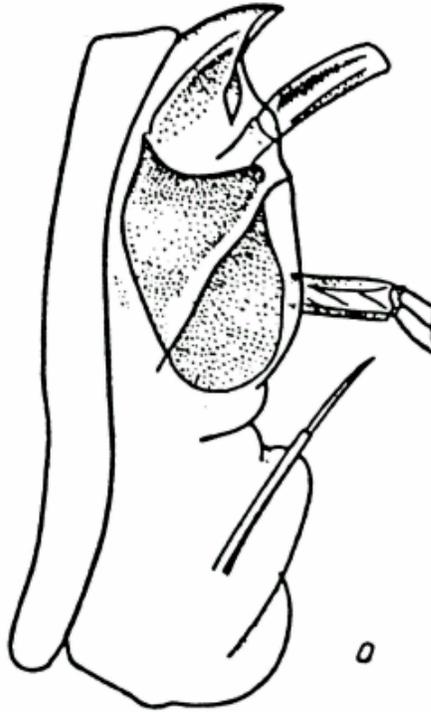
Migrations:

Temperature:

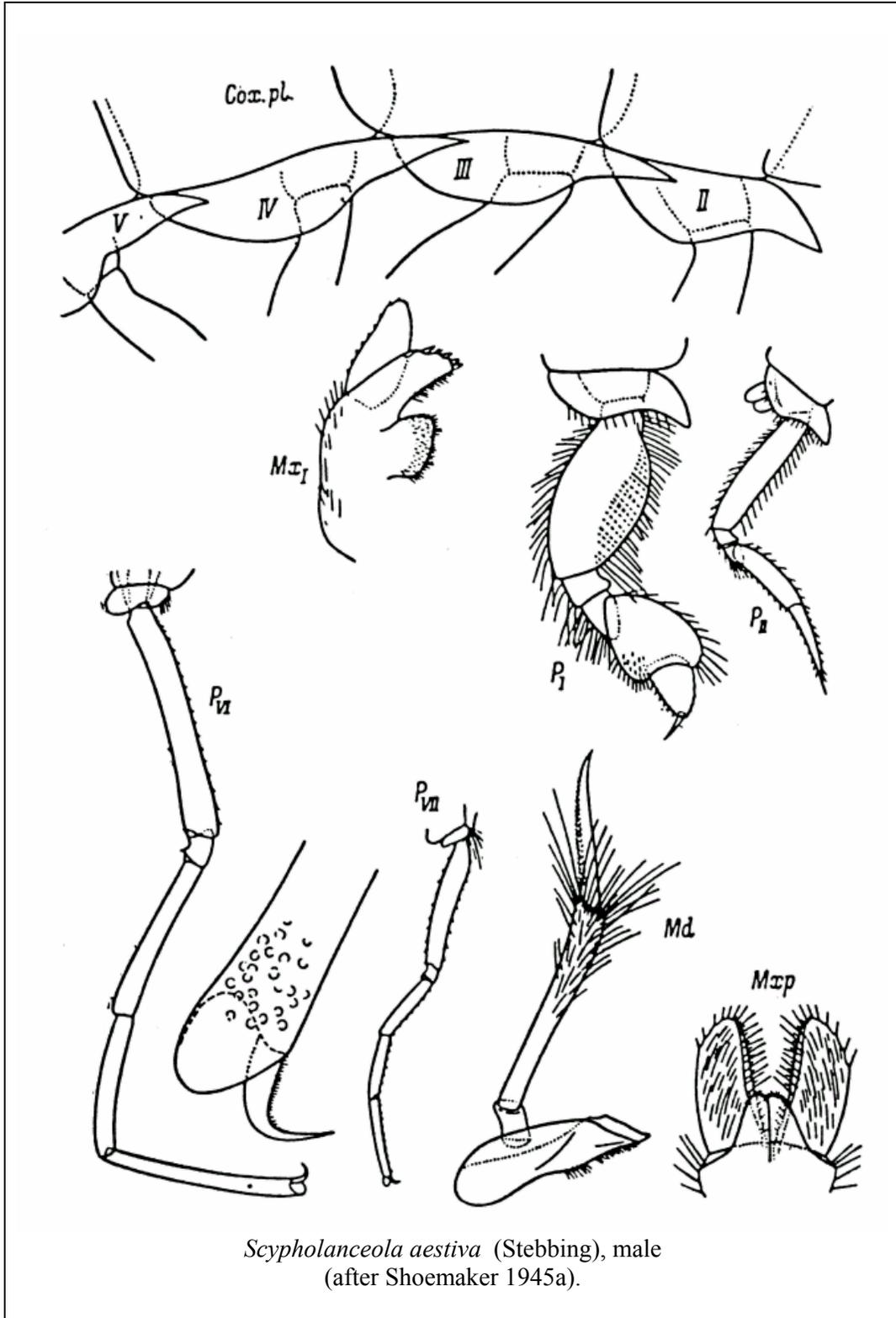
Salt Water: Yes/No

Depth range :

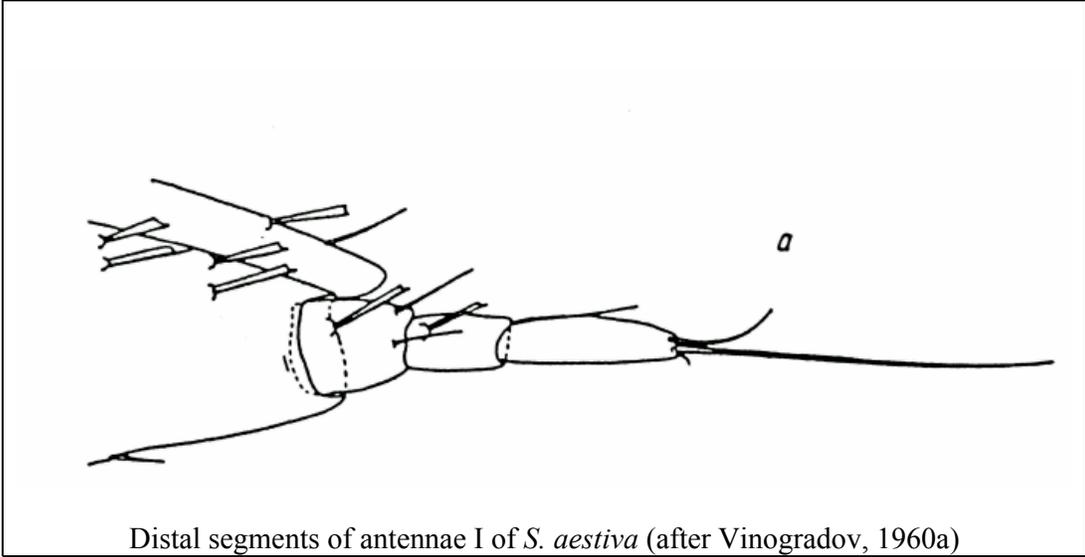
Picture (scanned images or photographs of adult/ larval stages)



Head of (a) *Scypholanceola aestiva* (Stebbing) (after Woltereck, 1909)



Scypholanceola aestiva (Stebbing), male
(after Shoemaker 1945a).



Distal segments of antennae I of *S. aestiva* (after Vinogradov, 1960a)

Pereopods I, particularly in large specimens, have a broad 2nd segment; the 5th segment is highly broadened distally so that its maximum width is equal to or slightly less than its length; the posterior and especially the anterior distal angles form a large roundish lobe overhanging the 6th segment (sometimes in young individuals the anterior lobe may be almost undeveloped); the base of the oval-conical 6th segment is nearly half the length of the distal margin of the 5th segment; the anterior distal angle of the 6th segment is produced into a denticle overhanging the claw the relative size of this denticle, prominent in younger individuals, reduces as the crustacean grows, and in larger individuals becomes almost inconspicuous. Pereopods II are longer than pereopods I; the very weak, distally broadened 5th segment (in large specimens it is nearly cylindrical) is usually somewhat longer but may be equal to or slightly shorter than the narrowly conical 6th segment. Pereopods III and IV are about 1.2-1.5 times longer than pereopods II. Pereopods V are nearly the same length as pereopods IV; their 2nd segment is slightly shorter than the rod-shaped 4th and 5th segment together; the 4th segment is longer than the 5th equal to or longer than the 6th, which in turn may be longer, equal to, or slightly shorter than the 5th. Pereopods VII are shorter than pereopods V; their 4th segment is slightly longer than the 5th and the 6th is longer than each of them and sometimes almost equal to the length of the 4th and 5th segments together. The claws of pereopods V-VII are relatively large. Retractable, in larger specimens the distal third is falcate, in younger specimens almost straight.

The Uropods have narrowly lanceolate rami and comparatively thin basipodites. The telson is triangular with a roundish, rarely tapering tip, reaching roughly half (rarely $\frac{3}{4}$) the length of the basipodite of uropods III.

Sex attributes:

Dimorphic

Male: 1st antenna well developed, female: 1st antenna reduced.

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food:

Feeding type:

Additional remarks: The similarity in structure of the appendages of *L. aestiva* Stebbing, 1888 and *S. vanhoeffeni* Woltereck, 1909 together with the imprecise description of the structure of the eyes of *L. aestiva* given by Stebbing, has enabled the assumption that these two species are identical (Vinogradov, 1957, 1962). A review of the type specimen of *L. aestiva* deposited in the British Museum (Thurston, 1973) showed that it is identical to *S. vanhoeffeni*. Thus the name *vanhoeffeni* is relegated to junior synonym.

Size and age:

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

Ref. No.:

Length of the sexually mature females in our collections from 27 to 53 mm males from 30 to 35 mm. But Woltereck found a specimen measuring 61 mm (*S. chuni*) in the southern ocean

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:

Eggs and larvae: 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.) LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.) <div style="margin-left: 40px;"> <p>Dr.K.K.C.Nair Scientist-In-Charge R.C. of NIO, Post Box-1616 Kochi – 682 014</p> <p>Dr. N. Krishna pillai “Radhika” 65- Champaka Nagar Bakery Junction Trivandrum-695 001</p> </div>	
ACKNOWLEDGMENT: (List of persons who contributed, modified or checked information)	