

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: ✓ | Flora | Microorganisms |
| General Category: Invertebrata (Zooplankton), Pelagic amphipoda | | |
| Scientific name & Authority: <i>Vibilia armata</i> Bovallius Common Name (if available): Synonyms: Author(s) Status <i>Vibilia armata</i> Bovallius 1887,p.69, pl.10,figs. 15-22 <i>Vibilia gracilis</i> Bovallius 1887,p.65, pl.9, figs. 14-18. <i>Vibilia gracilentia</i> Bovallius 1887,p.67, pl. 10, figs. 1-14. | | |
| Classification: Phylum: Arthropoda Sub Phylum: Mandibulata Super class: Class: Crustacea Sub- Class: Malacostraca Super Order: Peracarida Order: Amphipoda Sub Order: Hyperiiidea Super Family: Vibiliioidea Family: Vibilidae Sub-Family: Genus: <i>Vibilia</i> Species: <i>armata</i> Authority: Bovallius Reference No.: Bovallius, C. 1887 b. Contribution to a monograph of the Amphipoda Hyperiiidea.I. The families Tyronidae, Lanceolidae, Vibiliidae. <i>Kgl. Svenska Vet.- Akad. Handl.</i> , Vol .21, No. 5, 72 pp. | | |
| Geographical Location: Mainly found in tropical and subtropical waters, but often strays into the boreal region where, of course, it is found in small numbers. In the Southern Hemisphere, it is distributed up to 50°. Latitude: Place: Longitude: State: | | |

Environment

Freshwater: Yes/ No

Habitat:

Salinity:

Brackish: Yes/No

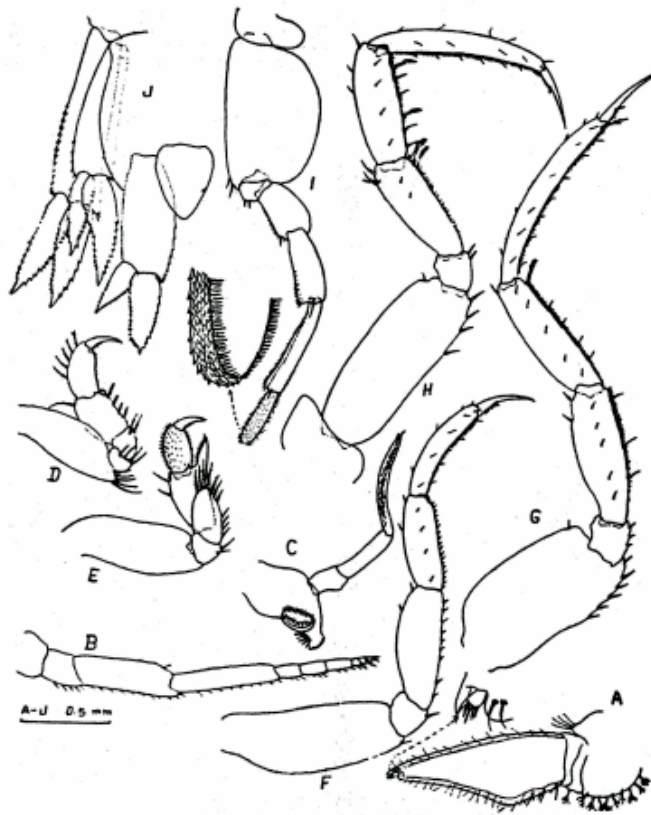
Migrations:

Temperature:

Salt Water: Yes/No

Depth range :

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



Vibia armata

A – antenna 1; B – antenna 2; C – mandible; D – pereopod 1;
E – pereopod 2; F – pereopod 4; G – pereopod 5;
H – pereopod 6; I – pereopod 7; J – Uropods and telson.

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:

First antenna of the male is five- segmented, first segment is stout and carries branched setae, fourth segment abruptly narrows before the middle and its borders are armed with small setules, there is a small fifth segment carrying four denticles. Second antenna is eight segmented, third and fourth segments are subequal. Third segment of the palp of the mandible is as long as the first two segments combined and is armed with closely packed spinules.

First pereopod is not gnathopodal in nature, its fifth and sixth segments are subequal in size and armed with strong barbed setae, seventh segment is strong. Fifth segment of second pereopod is internally produced forwards into a narrow spiny lobe forming with the sixth segment a chela, the sixth segment is serrated on both borders. Pereopods three to seven are robust, third and fourth have comparatively slender second segment, fifth and sixth segments are armed along the inner border with small spines. Second segment of fifth pereopod is board, with six spines on the inner distal half of its inner border, inner border of segments four to six is spiny, dactylus is nearly straight and carries a few spines near its base. Sixth pereopod is very much similar to the fifth but its second segment is slightly narrower. Seventh pereopod is modified, its second segment is board, third is very short, inner border of segments four to seven is armed with scales and spinules, seventh segment is large and club-shaped, with characteristic armature.

Peduncles of the uropods are stout, that of the first uropod is nearly as board as that of the third, peduncle of the second uropod is as long as that of the third. Distal two thirds of the outer border of the peduncle of the first uropod shows sparse serrations. Rami of first uropod are subsimilar, exopod of the second and third uropods is smaller than the endopod, endopod of third uropod is broad and suddenly narrows near its apex, both borders of all the rami are serrated. Telson is roughly triangular and

apically blunt.

Sex attributes:

Dimorphic

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

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food:

Feeding type:

Additional remarks: In most of the characters the present specimens resemble those which Bovallius described as *V. gracilentia*. However, the proportionate lengths of the segments of the second antenna are different and the telson is slightly broader.

Size and age:

Maximum length (cm) (male/ female/ unsexed) 7.4mm

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 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: |
| <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>LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.)</p> <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> <p>ACKNOWLEDGEMENT: (List of persons who contributed, modified or checked information)</p> | |