

**NATIONAL BIORESOURCE DEVELOPMENT BOARD**

Dept. of Biotechnology  
Government of India, New Delhi

For office use:
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**MARINE BIORESOURCES**

**FORMS DATA ENTRY: Form- 1(general)**

Fauna: ✓	Flora	Microorganisms																								
General Category: Invertebrata (Zooplankton), Pelagic amphipod																										
<p>Scientific name &amp; Authority: <i>Phronima stebbing</i> Vosseler, 1901                  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>Phronima stebbing</i></td> <td>Vosseler</td> <td>1901: 36</td> </tr> <tr> <td><i>Phronima stebbing</i></td> <td>Chevreur &amp; Fage</td> <td>1925: 397</td> </tr> <tr> <td><i>Phronima stebbing</i></td> <td>Pirlot</td> <td>1929: 115</td> </tr> <tr> <td><i>Phronima stebbing</i></td> <td>Shih &amp; Dunbar</td> <td>1963: 3</td> </tr> <tr> <td><i>Phronima stebbing</i></td> <td>Shih</td> <td>1969: 29</td> </tr> <tr> <td><i>-pacific</i></td> <td>Stebbing</td> <td>1888: 1348</td> </tr> <tr> <td><i>Phronima stebbing</i></td> <td>Bovallius</td> <td>1889: 382</td> </tr> </tbody> </table>			Synonyms:	Author(s)	Status	<i>Phronima stebbing</i>	Vosseler	1901: 36	<i>Phronima stebbing</i>	Chevreur & Fage	1925: 397	<i>Phronima stebbing</i>	Pirlot	1929: 115	<i>Phronima stebbing</i>	Shih & Dunbar	1963: 3	<i>Phronima stebbing</i>	Shih	1969: 29	<i>-pacific</i>	Stebbing	1888: 1348	<i>Phronima stebbing</i>	Bovallius	1889: 382
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<p>Classification:</p> <table border="0"> <tr> <td>Phylum: Arthropoda</td> <td>Sub Phylum: Mandibulata</td> <td>Sub Class: Malacostraca</td> </tr> <tr> <td>Super class</td> <td>Class: Crustacea</td> <td>Sub Order: Hyperidea</td> </tr> <tr> <td>Super Order: Peracarida</td> <td>Order: Amphipoda</td> <td>Sub-Family</td> </tr> <tr> <td>Super Family: Phronimoidea</td> <td>Family: Phronimidae</td> <td></td> </tr> <tr> <td>Genus: <i>Phronima</i></td> <td>Species: <i>stebbing</i></td> <td></td> </tr> </table> <p>Authority: Vosseler, 1901                  Reference No.: Vosseler, I. 1901. Die Amphipoden der Plankton-Expedition. 1. Hyperidea, <i>Erg. Plankton-Exped. Humboldt-Stiftung</i>, vol. 2, G. e.1, 129 pp.</p>			Phylum: Arthropoda	Sub Phylum: Mandibulata	Sub Class: Malacostraca	Super class	Class: Crustacea	Sub Order: Hyperidea	Super Order: Peracarida	Order: Amphipoda	Sub-Family	Super Family: Phronimoidea	Family: Phronimidae		Genus: <i>Phronima</i>	Species: <i>stebbing</i>										
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<p>Geographical Location: Found in tropical waters of the three oceans and in the western part of the Mediterranean Sea. It is most common in the Atlantic Ocean and in the eastern equatorial Pacific Ocean.</p> <table border="0"> <tr> <td>Latitude:</td> <td>Place:</td> </tr> <tr> <td>Longitude:</td> <td>State:</td> </tr> </table>			Latitude:	Place:	Longitude:	State:																				
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Environment

Freshwater: Yes/ No

Habitat: Marine

Salinity:

Brackish: Yes/No

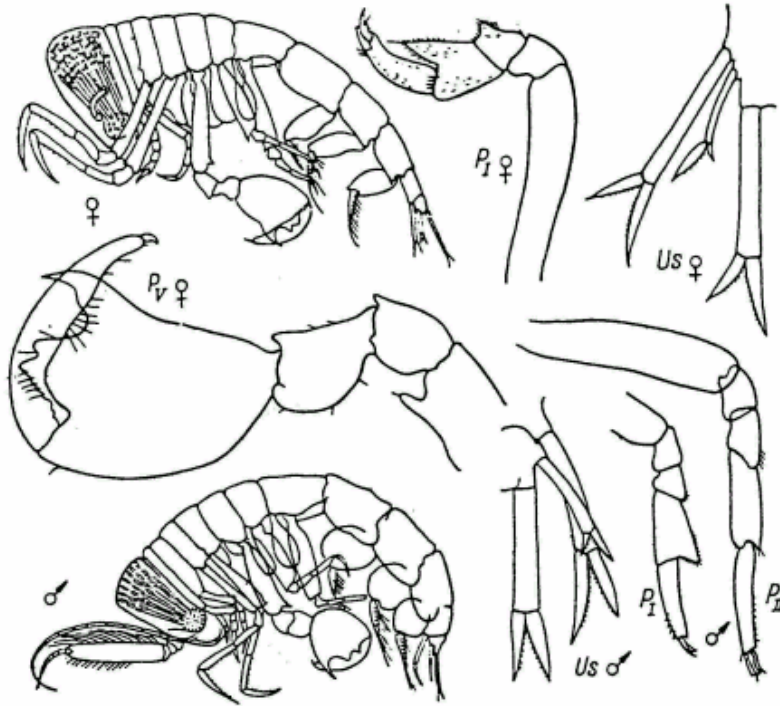
Migrations:

Temperature:

Salt Water: Yes/No

Depth range :

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



*Phronima stebbingi* Vosseler (after Vosseler, 1901).

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:.

Antennae II if males are well developed. The distinctive feature of this species is the relatively short pereon, particularly its last somite, which is shorter than pleon somite I, whereas in other species of *Phronima* relation is reversed. In structure of pereopods V, *P. stebbingi* is close to *P. atlantica*: the posterior distal angle of the 2<sup>nd</sup> segment has a small but well-defined triangular process; the length of the 4<sup>th</sup> segment in females is more than its width, while in males the length and breadth are equal, and the posterior margin is bulged, almost semicircular; the 5<sup>th</sup> segment in females is approximately triangular; its length more than its width, while in males the length and width of the 5<sup>th</sup> segment are equal and the posterior margin is highly bulged proximally; the anterior distal tooth is medium in size; the medial tooth and the medial protuberance of the distal margin are close-set.

Uropods II are much (in males almost half) narrower and shorter than the rest and with a small endopodite.

Sex attributes:

Dimorphic

Male: 1<sup>st</sup> antenna well developed, female: 1<sup>st</sup> antenna reduced.

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food:

Feeding type:

Additional remarks:

Size and age:

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

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.:
<b>SPAWNING INFORMATION:</b> Locality: Season: Fecundity: Comment:	Main Ref:
<b>MAJOR PUBLICATIONS (INDIAN):</b> (Include review articles, monographs, books etc.) <b>LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.)</b>  <div style="margin-left: 40px;"> <p>Dr. K.K.C. Nair            Scientist-In-Charge            R.C. of NIO,            Post Box-1616            Kochi – 682 014            Email <a href="mailto:kknair@niokochi.org">kknair@niokochi.org</a></p> <p>Dr. N. Krishna pillai            “Radhika”            65- Champaka Nagar            Bakery Junction            Trivandrum-695 001</p> </div>	
<b>ACKNOWLEDGMENT:</b> (List of persons who contributed, modified or checked information)	