

**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: <input checked="" type="checkbox"/>	Flora	Microorganisms																		
General Category: Invertebrata (Zooplankton) Pelagic amphipoda																				
<p>Scientific name &amp; Authority: <i>Mimonectes gaussi</i> (Woltereck, 1904)                  Common Name (if available):                  Synonyms: Author(s) Status</p> <table border="0"> <tr> <td><i>Mimonectes gaussi</i></td> <td>Woltereck,</td> <td>1904b: 627</td> </tr> <tr> <td>(<i>Sphaeromimonectes</i>)</td> <td>Woltereck</td> <td>1927:80</td> </tr> <tr> <td><i>Mimonectes gaussi</i></td> <td>Stephensen &amp; Pirlot</td> <td>1931: 531</td> </tr> <tr> <td><i>Mimonectes gaussi</i></td> <td>Shoemaker</td> <td>1945a: 221</td> </tr> <tr> <td>-<i>floweri</i> (<i>Parascina</i>)</td> <td>Stebbing</td> <td>1904b : 21</td> </tr> <tr> <td><i>Mimonectes gaussi</i></td> <td>Stephensen &amp; Pirlot</td> <td>1931: 519.</td> </tr> </table>			<i>Mimonectes gaussi</i>	Woltereck,	1904b: 627	( <i>Sphaeromimonectes</i> )	Woltereck	1927:80	<i>Mimonectes gaussi</i>	Stephensen & Pirlot	1931: 531	<i>Mimonectes gaussi</i>	Shoemaker	1945a: 221	- <i>floweri</i> ( <i>Parascina</i> )	Stebbing	1904b : 21	<i>Mimonectes gaussi</i>	Stephensen & Pirlot	1931: 519.
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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: Scinoidea</td> <td>Family: Mimonectidae</td> <td></td> </tr> <tr> <td>Genus: <i>Mimonectes</i></td> <td>Species: <i>gaussi</i></td> <td></td> </tr> </table> <p>Authority: (Woltereck, 1904)                  Reference No.: Woltereck, R. 1904b. Dritte Mitteilung iiber Hyperiden der Deutschen Tiefsee-Expedition und erste Notiz iiber die Amphipoden der Deutschen Sudpolar-Expedition. <i>Zool. anz.</i>, vol. 27, Nos. 20-21, pp. 621-629.</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: Scinoidea	Family: Mimonectidae		Genus: <i>Mimonectes</i>	Species: <i>gaussi</i>				
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Super Family: Scinoidea	Family: Mimonectidae																			
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<p>Geographical Location: North Atlantic Ocean from Davis Strait (63 ° 06' N, 56° W) up to the Maderia and Bermuda islands, South Atlantic off South Africa. In the Indian Ocean it is found in the Arabian Sea and in tropical regions up to 20° S, in the Pacific Ocean-in the northwestern part, south of 50° N, in the Philippine Sea, Solomon Sea, and in the region of the deepwater Kermadec trench. It generally inhabits depths of more than 500 m, but rises to shallow depths; casts of females that had died after spawning have been found in surface catches.</p>																				

Latitude:  
Longitude:

Place:  
State:

Environment

Freshwater: Yes/ No

Brackish: Yes/No

Salt Water: Yes/No

Habitat: Marine

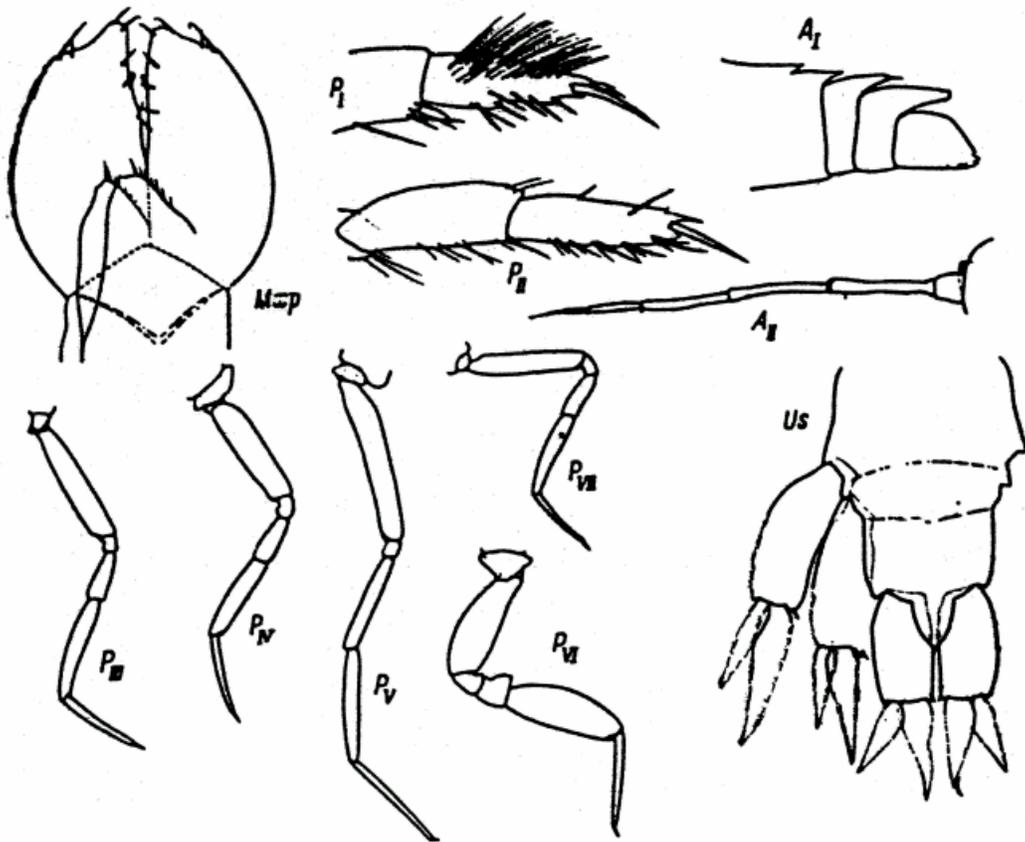
Migrations:

Depth range :

Salinity:

Temperature:

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



*Mimonectes gaussi* (Woltereck), male (after Shoemaker, 1945a).

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 in sexually mature males are about  $\frac{3}{4}$  the length of antennae.

The mandibles have a finely denticulate, comparatively broad cutting edge, with a deep notch in its lower part. In maxillae I the distal margin of the lobes and the palp is rounded; the spines on the outer lobe are weak; the outer and inner lobes bear numerous thin setae, usually longer on the distal margin of the outer lobe. The inner lobe of maxillae II is almost square, twice broader than the outer; both lobes bear numerous thin setae. The outer lobes of the maxillipeds is armed with short setae on the inner margin and, in addition, with some longer and stronger setae in the distal part of the outer margin, with no small setae occurring between the two groups; the outer lobe is oval or its outer distal margin from the site of attachment of the outermost seta straightly truncated, and the angle stretched and acute; the inner lobes are broad, pubescent, and armed with isolated strong setae in the distal part.

Pereopods I, and especially pereopods II, have a conical, distally narrowed 6<sup>th</sup> segment; this segment terminates in a long thin denticulate process projecting above the claw, and a shorter process under the claw; the posterior margin of the segment bears long and strong setae, while in males the distal surface of the 6<sup>th</sup> segment of pereopods I bears long thin hairs; the 5<sup>th</sup> segment of pereopods I is 1.1-3.3 times longer than the 6<sup>th</sup>; the claw is long, thin, and straight. Pereopods III and IV are alike in structure; their 4<sup>th</sup> segment is almost equal to the 3<sup>rd</sup> or longer than it by not more than two times, and not less than half the length of the 5<sup>th</sup>; the 5<sup>th</sup> segment is linear or amygdaloid, equal to or

slightly shorter than the 2<sup>nd</sup>; the 6<sup>th</sup> segment is thin, distally tapering, and slightly shorter than the 5<sup>th</sup>; the claw is almost the same length as pereopods IV; the 4<sup>th</sup> segment is equal to the 5<sup>th</sup> or shorter, but not by more than  $\frac{1}{2}$ - $\frac{2}{3}$  its length; the 6<sup>th</sup> segment is thin and distally tapering. Pereopods VI in males are the same length as pereopods V, in females slightly shorter; the length ratios of these segments show individual variation; the 4<sup>th</sup> segment may be equal to the 5<sup>th</sup> or almost  $\frac{1}{2}$  in length; the 5<sup>th</sup> segment may be somewhat shorter or longer than the weakly conical 6<sup>th</sup> segment. Pereopods VII are weaker than pereopods V but with roughly the same length ratios of segments.

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.:

Length of sexually mature females 11-18mm, of males up to 9mm, in length to both the preceding segments.

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.)	
<p style="text-align: center;">             Dr.K.K.C.Nair              Scientist-In-Charge              R.C. of NIO,              Post Box-1616              Kochi – 682 014           </p> <p style="text-align: center;">             Dr. N. Krishna pillai              “Radhika”              65- Champaka Nagar              Bakery Junction              Trivandrum-695 001           </p>	
ACKNOWLEDGMENT: (List of persons who contributed, modified or checked information)	