

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		
Scientific name & Authority: <i>Mimonectes diomedae</i> (Woltereck, 1909) Common Name (if available):		
Synonyms:	Author(s)	Status
<i>Mimonectes diomedae</i>	Woltereck	1909
(Sphaeromimonectes)	Woltereck	1909: 148
<i>Mimonectes diomedae</i>	Stephensen & Pirlot	1931: 531
<i>Mimonectes diomedae</i>	Vinogradov	1957: 208
-gaussi	(non Woltereck)	1904b
<i>Mimonectes diomedae</i>	Shoemaker	1945a: 221
Classification:		
Phylum: Arthropoda	Sub- Phylum: Mandibulata	Sub- Class: Malacostraca
Super class:	Class: Crustacea	Sub Order: Hyperiidea
Super Order: Peracarida	Order: Amphipoda	Sub-Family
Super Family: Scinoidea	Family: Mimonectidae	
Genus: <i>Mimonectes</i>	Species: <i>diomedae</i>	
Authority: (Woltereck, 1909) Reference No.: Woltereck, R.1909. Amphipoda. Reports on the scientific results of the expedition to the Eastern Tropical Pacific... by the U.S. Fish. Comm. Steamer "Albatross" from October 1904 to March 1905. <i>Bull. Mus. Comp. Zool. Harvard</i> , vol. 52, No. 9, pp. 145- 168.		

Environment

Freshwater: Yes/ No

Brackish: Yes/No

Salt Water: Yes✓/ No

Habitat: Marine

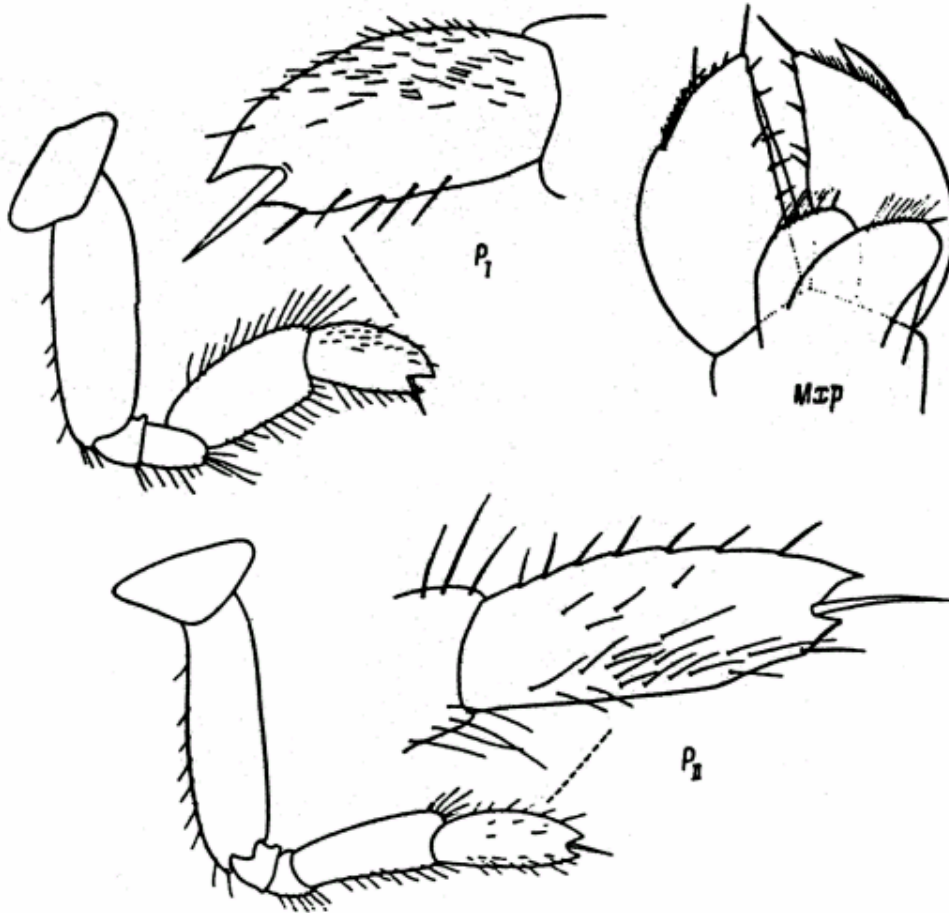
Migrations:

Depth range :

Salinity:

Temperature:

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



Mimonectes diomedae (Woltereck), male (after Vinogradov, 1957)

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:

The mandibles have a very narrow denticulate cutting edge, and an accessory plate almost equal in width to it; the notch on the cutting edge is almost imperceptible. The outer lobe of maxillae I bears relatively weak distal spines; the inner lobe is petaloid, broad, and apically rounded. The outer lobes of the maxillipeds tapers apically because the distal part of the outer margin is straight, not bulging; one long strong seta is situated at the point where the bulging outer margin becomes straight; a second smaller seta is situated in the middle of the straight part while a third seta is apical; between these setae the margin of the lobe is finely pubescent; the inner margin of the outer lobe is armed with numerous short setae; the inner lobes are broad, oval, and pubescent in the distal part, with one apical seta.

Unlike in *M. gausi*, the 6th segment of pereopods I and II is not conical but oval, almost not tapering distally, its distal denticle projecting over the claw, broad, basally petaloid; the 5th segment of pereopods I is 1.3-1.5 times longer than the 6th segment.

Sex attributes:

Dimorphic

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

Descriptive characters:

Meristic characteristics:

Feeding habit:

Main food:

Feeding type:

Additional remarks: This species is close to *M.gaussi* a fact pointed out by uits authour, Wolereck. Later, Shoemaker on this basis included it in the synonymy of *M.gaussi*. However , an examination of the new material showed that *M. diomedea* has several distinctive features, enabling a clear separation of the two species.

Size and age:

Maximum length (cm) (male/ female/ unsexed) Ref. No.:

Length of sexually mature female 15mm; of not fully mature male 14mm.

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