

**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 : <input checked="" type="checkbox"/>	Flora	Microorganisms
General Category : Invertebrata (Zooplankton),Pelagic amphipod		
Scientific name & Authority : <i>Tetrathyrus arafuræ</i> Stebbing, 1888		
Common Name ( if available ) :		
Synonyms:	Author(s)	Status
<i>Tetrathyrus arafuræ</i>	Stebbing	1888: 1483
Classification:		
Phylum: Arthropoda	Sub Phylum: Mandibulata	SubClass: Malacostraca
Super class	Class: Crustacea	Sub Order: Hyperidea
Super Order: Peracarida	Order: Amphipoda	Sub-Family
Super Family: Platysceloidea	Family: Platyscelidae	
Genus: <i>Tetrathyrus</i>	Species: <i>arafuræ</i>	
Authority: Stebbing, 1888		
Reference No. : Stebbing, T.R 1888. Report on the Amphipoda collected by H.M.S. "Challenger" during the years 1873-76. Rept. Sci. Res. "Challenger", Zool., vol. 29 (pt. 1-3), 1737 pp.		
Geographical Location: Known from the Arafura Sea (surface catches ) and the environs of New Zealand, Hawaii Islands, California bay. Indian Ocean , Mozambique Gulf (Vinogradov 1991), Pacific Ocean: Gulf of California (Siegel-Causey 1982)		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity :

Brackish : Yes/ No

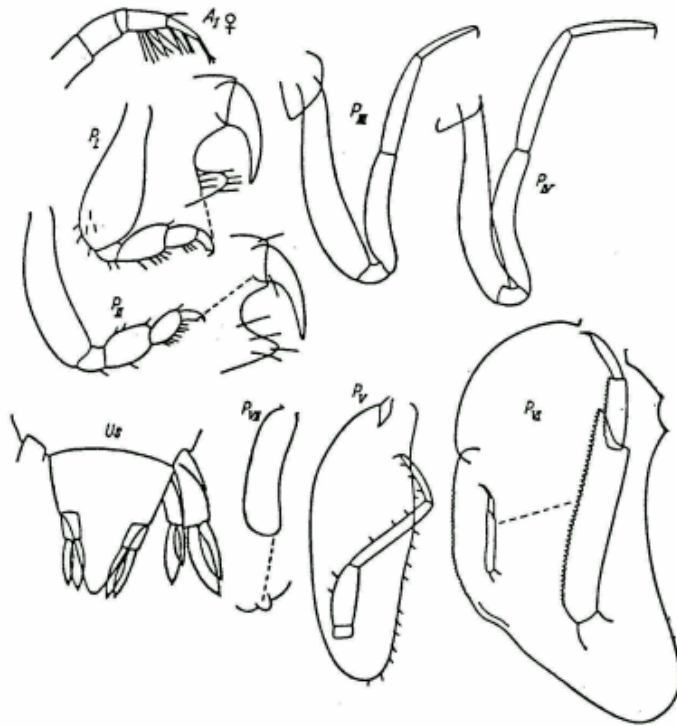
Migrations :

Temperature :

Salt water : Yes✓/ No

Depth range :

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



*Tetrathyrus arafurae* Stebbing, female

DATA ENTRY FORM: Form- 2(Fish / shellfish / 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 shape of the body and the head and the structure of pereopods I-IV almost do not differ from those in *T. forcipatus*.

The 2<sup>nd</sup> segment of pereopods V is 2.3-2.8 times longer than wide and its anterior margin has a bulge in the middle part and is generally armed with sparse setae; the 3<sup>rd</sup>-7<sup>th</sup> segments together are shorter than the 2<sup>nd</sup> segment. The 2<sup>nd</sup> segment of pereopods VI is similar to that in *T. forcipatus* but its posterior margin finely denticulate in the middle part; the distal process of the 4<sup>th</sup> segment reaches the middle of the 5<sup>th</sup>. Pereopods VII consist of a 2<sup>nd</sup> segment in which the distal end is not arrowed but smoothly rounded, and a very short 3<sup>rd</sup> segment, not completely separated from the 2<sup>nd</sup> and in the shape of small tubercle.

The rami of the uropods are lanceolate with denticulate margins and the endopodites are free. The telson is narrower than in *T. forcipatus* and longer than the last urosomite.

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 adult animals not more than 5 mm.

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 relational ships:

Ref. No.:

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>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 Email <a href="mailto:kkcnair@niokochi.org">kkcnair@niokochi.org</a></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>	