

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), Copepoda		
Scientific name & Authority : <i>Mesocalanus tenuicornis</i> (Dana), 1849 Common Name (if available) :		
Synonyms:	Author(s)	Status
<i>Calanus tenuicornis</i>	Dana	1849
<i>Neocalanus tenuicornis</i>	Sars	1925
Classification:		
Phylum: Arthropoda	Sub- Phylum	
Super Class :	Class : Crustacea	Sub- Class: Copepoda (Milne-Edwards,1840)
Super Order: Gymnoplea	Order: Order: Calanoida (Sars1903)	Sub Order :
Super Family:	Family : Calanidae	Sub-Family:
Genus : <i>Mesocalanus</i>	Species : <i>tenuicornis</i>	
Authority: Dana		
Reference No.		
Dana, J.D., 1849. <i>Conspectus Crustaceorum, in orbis terrarum circumnavigatione, C. Wilkes, e classe Republicae Foederatae duce, collectorum. Proceedings of the American Academy of Arts and Science. 2.</i>		
Geographical Location: Wide spread in tropical and subtropical oceans.		
Latitude: 20°N to 30°S	Place: Indian Ocean	
Longitude: 20° E to 120°E	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity :

Brackish : Yes/ No

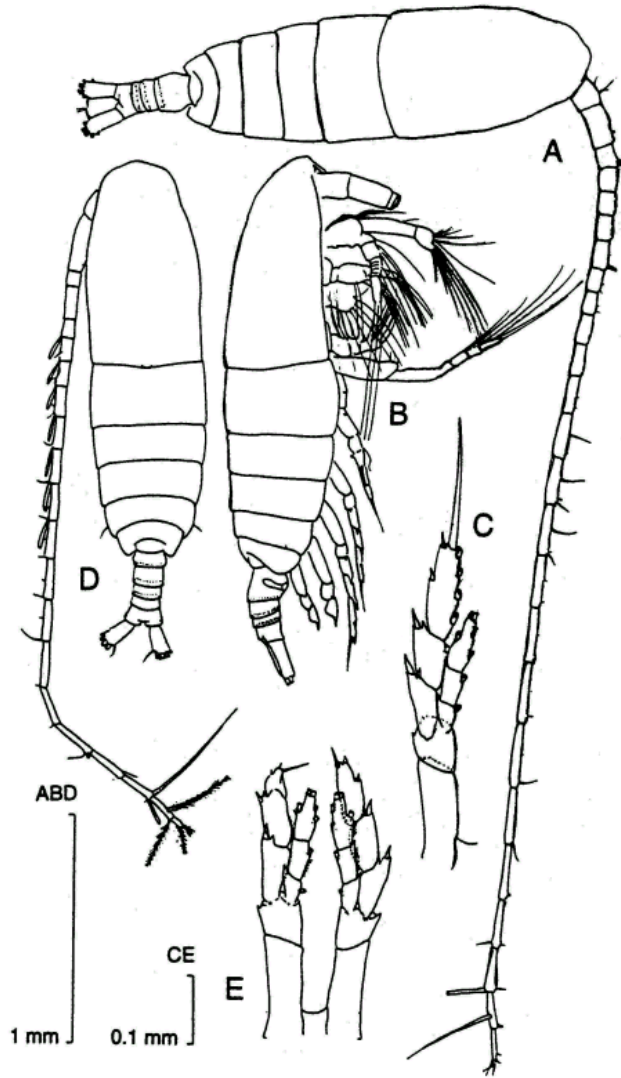
Migrations :

Temperature :

Salt water : Yes ✓ / No

Depth range :

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



Mesocalanus tenuicornis (After Bradford – Grieve, 1994)

Female: A – dorsal view, B – lateral view, C – leg 5.

Male: D – dorsal view, E – leg 5.

<p>DATA ENTRY FORM: Form- 2(Fish / shellfish / others) Ref.No.:</p> <p>(please answer only relevant fields ; add additional fields if you require)</p> <p>Form -1 Ref.No.:</p>			
<p>IMPORTANCE</p>			
Landing statistics (t/y) :	from	to	Place :
Main source of landing: Yes/ No			Coast: east/ west
Importance to fisheries:			Ref . No.:
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:
<p>SALIENT FEATURES :</p>			
<p>Morphological:</p>			
<p>Diagnostic characteristics:</p> <p>Female: Width of metasome relative to its length is about 0.30. In lateral view the posterior margin of the head not elevated. Length of urosome segment 2 relative to urosome segment 3 is about 1.25.</p> <p>Male: Left leg 5 exopod segment 3 terminal spine almost as long as its segment when measured along the outer border.</p>			
<p>Sex attributes:</p>			
<p>Descriptive characters:</p>			

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

It appears that the present specimens are referable to *M.tenuicornis* because of the lack of an elevated postero-dorsal margin of the head, metasome width / length greater than or equal to 0.30, and the length of 2 relative to urosome segment 3 is not as great as 1.33. Male leg 5 exopod segment 3 terminal spine appears to be slightly longer than its segment measured along the outer border. Although Mullin (1969) records an intermediate form from the southern hemisphere the present specimens do not appear to have characteristics of this form. This intermediate form might be designated *M.lighti* on morphometric grounds except that it lacks the dorsal hump, has the opaque appearance more characteristic of *M. tenuicornis*, and the male is larger relative to the female than is the case in either *M.lighti* or *M. tenuicornis* (Mullin 1969).

Size and age:

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

Female : 1.80 – 2.40 mm

Male : 1.70 – 2.20 mm

Ref. No.:

Bradford – Grieve, 1994

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)

Length / weight relationships:

Eggs and larvae: Characteristics: Abundance:	Ref. No.:
Biochemical aspects: Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash Electrophoresis:	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.) ACKNOWLEDGEMENT: (List of persons who contributed, modified or checked information)	