

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>Neocalanus robustior</i> (Giesbrecht), 1888		
Common Name (if available) :		
Synonyms:	Author(s)	Status
<i>Calanus robustior</i>	Giesbrecht	1888
<i>Calanus comptus</i>	T.Scott	1894
<i>Megacalanus robustior</i>	A.Scott	1909
<i>Calanus robustus</i>	G.O.Sars	1912
<i>Neocalanus robustior</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>Neocalanus</i>	Species : <i>robustior</i>	
Authority: Giesbrecht		
Reference No.		
Giesbrecht, W., 1888. "Elenco dei copepodi pelagici raccolti dal tenente di vascello G. Chierchia durante il viaggio della R. Corvetta "Vettor Pisani" negli anni 1882-1885, e dal tenente di vascello F. orisini nel Mar Rosso nel 1884" <i>Atti Accad. Lincei Roma.</i> , 4: 2 Sem. 1888.		
Geographical Location:		
This species is widely distributed in the Indo – Pacific, Maldives Archipelago and East – Pacific.		
Latitude: 25°N to 40°S	Place: Indian Ocean	
Longitude: 20° E to 120°E:	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity :

Brackish : Yes/ No

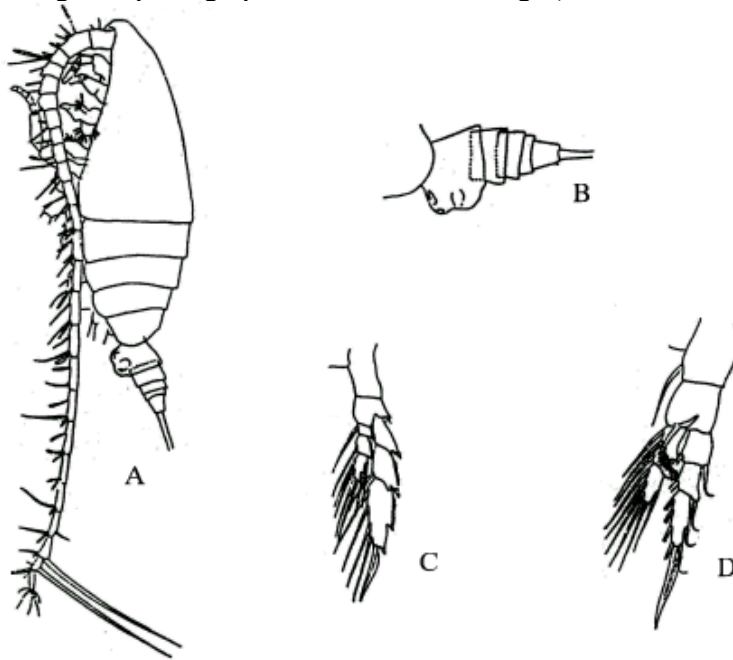
Migrations :

Temperature :

Salt water : Yes / No

Depth range :

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



Neocalanus robustior (After T. Mori, 1964)

A - Female, B - female abdomen (lateral view),
C - female 5th leg anterior, D - female 1st leg anterior.

<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> <p>Landing statistics (t/y) : from to Place : Ref . No.:</p> <p>Main source of landing: Yes/ No Coast: east/ west</p> <p>Importance to fisheries:</p> <p>Main catching method :</p> <p>Used for aquaculture : yes/ never/ rarely</p> <p>Used as bait : yes/no/ occasionally</p> <p>Aquarium fish : yes/ no/ rarely</p> <p>Game fish : yes/ no</p> <p>Dangerous fish : poisonous/ harmful/ harmless</p> <p>Bioactivity : locally known/ reported/ not known Details:</p> <p>Period of availability : Throughout the year – yes/ no If no, months:</p>			
<p>SALIENT FEATURES :</p> <p>Morphological:</p> <p>Diagnostic characteristics:</p> <p>Copepodid Stage V. Female: The proportional lengths of the cephalothorax and the abdomen are as 47.5 to 12, the length of the abdomen is thus contained 3.95 times in that of the anterior part of the body.</p> <p>The prosome and 1st pedigerous segment are partly fused, on the dorsal surface and a line of separation is distinctly visible. The 4th and 5th pedigerous segment are separated, the lateral thoracic margin is rounded in lateral aspect and not produced. The frontal part of the head is rounded and has two slender rostral filaments. The abdomen in this stage consists of 4 free segments and the furca. There is no trace of a genital swelling on the 1st abdominal segment.</p> <p>The 1st antenna has 24 free joints, the 8th and 9th joints are completely fused. It reaches beyond the tip of the furca by the last 5-6 joints.</p> <p>The mouth parts and the 2nd antenna are very little different from those of the adult female. The 2nd maxilla shows a distinct knob on the external margin of the 1st basal joint, which is a specific character, distinguishing <i>Neocalanus robustior</i> in this stage from <i>N. gracilis</i>.</p>			
<p>Sex attributes:</p> <p>Descriptive characters:</p>			

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

Size and age:

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

Female Copepodid stage V: 2.78 – 2.98 mm

Ref. No.:

Vervoort, 1946

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 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.) Wolfenden, R.N., 1905. Notes on the collection of Copepoda. Pp.989-1040 in <i>Stanley Gardiner , J.S.(ed.) “ The Fauna and Geography of the Maldive and Laccadive Archipelagoes”</i> . <i>University Press, Cambridge</i> . 1079p. Madhupratap, M. and P. Haridas, 1986. Epipelagic calanoid copepods of the Northern Indian Ocean. <i>OCEANOLOGICA ACTA</i> , 9 : 105-117. Stephen, R., 1998. Geographical variation in the distribution of different calanoid species in the Indian Ocean. <i>Pelagic Biogeography, ICOPB II, IOC Workshop Report</i> 142: 338-344.	
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