

**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 ) 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>Gaussia sewelli</i> Saraswathy, 1973 Common Name (if available):		
Synonyms:	Author(s)	Status
<i>Metridia scotti</i>	Sewell	1913
<i>Gaussia princeps</i>	Sewell	1932
<i>Gaussia princeps</i>	Sewell	1947
<i>Gaussia princeps</i>	Grice and Hulseman	1967
<i>Gaussia princeps</i>	Saraswathy	1971
Classification:		
Phylum: Arthropoda	Sub- Phylum	
Super Class :	Class : Crustacea	Sub- Class: Copepoda (Milne-Edwards,1840)
Super Order: Gymnoplea	Order: Calanoida (Sars1903)	Sub Order :
Super Family:	Family : Metridiidae	Sub-Family:
Genus : <i>Gaussia</i>	Species : <i>sewelli</i>	
Authority: Saraswathy		
Reference No.		
Saraswathy, M., 1973. The genus <i>Gaussia</i> (Copepoda: Calanoida) with a description of <i>G. sewelli</i> sp. nov, from the Indian Ocean. <i>Handbook to the International Zooplankton Collections</i> , IIOE, Vol. V: 190 – 195.		
Geographical Location: Indian Ocean, mainly in the Arabian Sea and Bay of Bengal.		
Latitude: 20°S – 20°N	Place: Indian Ocean	
Longitude: 40°E – 100°E	State:	

Environment

Fresh water: Yes/ No

Habitat : Marine

Salinity :

Brackish : Yes/ No

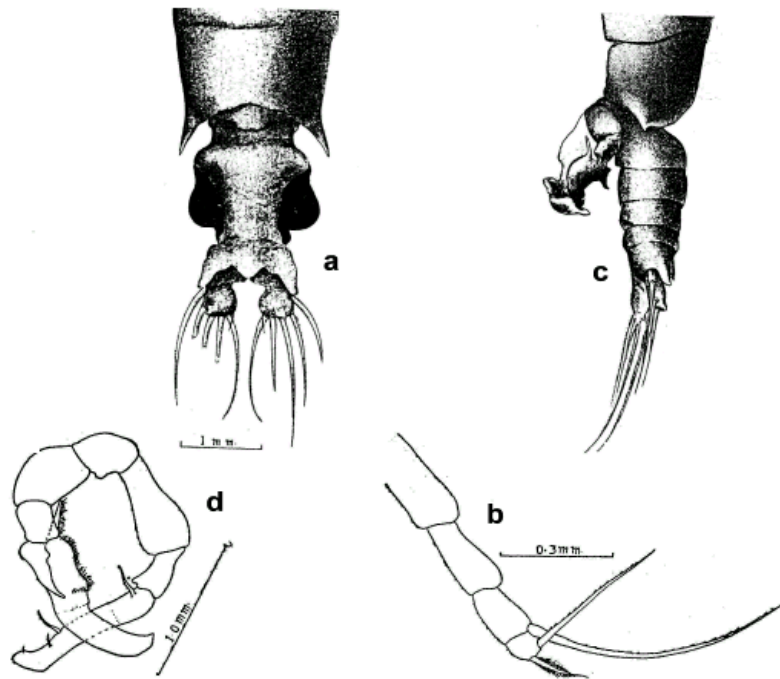
Migrations :

Temperature :

Salt water : Yes<sup>√</sup> / No

Depth range : 1500-3000 m

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



*Gausia sewelli* (After M. Saraswathy, 1973)

Female: a – dorsal view; b – leg 5.

Male: c – lateral view; d – 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> <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>Female: Posterolateral corners of last metasome segment backwardly directed; genital segment laterally inflated, symmetrical; projection on distal border of caudal rami not very prominent. Penultimate segment of leg 5 tends to be longer than broad.</p> <p>Male: Proximally directed spine on 3<sup>rd</sup> segment of leg 5, thin, tapering and long, extending beyond proximal border of segment 2 of right leg produced into a small rounded process, undulations of terminal half of segment 3 not very prominent; distance between 1<sup>st</sup> and 2<sup>nd</sup> and 2<sup>nd</sup> and 3<sup>rd</sup> seta unequal.</p>	
<p>Sex attributes:</p> <p>Descriptive characters:</p>	

Meristic characteristics:

Feeding habit:

Main food :

Feeding type :

Additional remarks:

The first record of the genus *Gaussia* from the Indian Ocean was that of Sewell (1913). There is an erroneous statement in Wolfenden (1911) that *Gaussia* was obtained in Gardiner's collection from the Indian Ocean. The drawings of Sewell (1932) are clear enough to recognize them as identical with specimens obtained during the present study from the northern areas of the Indian Ocean.

Differ from *G. scotti* from *G. sewelli* in the following:

	<i>G. scotti</i>	<i>G. sewelli</i>
Female		
Length (mm)	1.00 – 11.6	9.4 – 9.9
Posterolateral corners of last metasome segment	Strong sharp divergent spines	Backwardly directed hardly divergent spines
Genital segment	Asymmetrical lateral inflations, right side with strong conical process	Symmetrical lateral inflations
Caudal rami distal protuberance	Prominent	Barely evident

Size and age:

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

Female: 9.4 – 9.9 mm.

Male : 8.4 – 9.6 mm.

Ref. No.:

M. Saraswathy, 1973

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

Maximum weight : (g) (male / female / unsexed)

Average weight : (g) (male / female / unsexed)

Longevity (y) (wild) : (captivity)

Length / weight relationships:

Ref. No.:

Ref. No.:

Ref. No.:

Ref. No.:

Eggs and larvae: Characteristics: Abundance:	Ref. No.:
Biochemical aspects: Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash Electrophoresis:	Ref. No. Ref. No.
<b>SPAWNING INFORMATION:</b>	
Locality: Season: Fecundity: Comment:	Main Ref:
<b>MAJOR PUBLICATIONS (INDIAN):</b> (include review articles, monographs, books etc.)	
Saraswathy, M., 1973. The genus <i>Gaussia</i> (Copepoda: Calanoida) with a description of <i>G. sewelli</i> sp. nov, from the Indian Ocean. <i>Handbook to the International Zooplankton Collections</i> , IIOE, Vol. V: 190 – 195.	
Madhupratap, M. and P. Haridas, 1986. Epipelagic calanoid copepods of the Northern Indian Ocean. <i>OCEANOLOGICA ACTA</i> , 9 (2): 105-117.	
Stephen, R., K. Saraladevi, P.P. Meenakshikunjamma, T.C. Gopalakrishnan, and M. Saraswathy, 1992. Calanoid copepods of the Indian Ocean Expedition collections. B.N. Desai (Ed.) <i>Oceanography of the Indian Ocean</i> . Oxford/ IBH New Delhi, 143-156.	
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