

**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)**

Fauna: <input checked="" type="checkbox"/>	Flora	Microorganisms																											
General Category: Invertebrata (Zooplankton) Pelagic amphipod																													
<p>Scientific name &amp; Authority: <i>Scina tullbergi</i> (Bovallius, 1885)                  Common Name (if available):</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="width: 33%;">Synonyms:</th> <th style="width: 33%;">Author(s)</th> <th style="width: 33%;">Status</th> </tr> </thead> <tbody> <tr> <td><i>Scina tullbergi</i> (Tyro)</td> <td>Bovallius</td> <td>1885b: 15, 1887: 532, 1887c: 23</td> </tr> <tr> <td><i>Scina tullbergi</i></td> <td>Vosseler</td> <td>1901: 113</td> </tr> <tr> <td><i>Scina tullbergi</i></td> <td>Wagler</td> <td>1926: 384, 1927: 101</td> </tr> <tr> <td><i>-pacifica</i> (Tyro)</td> <td>Bovallius</td> <td>1887b: 25, 1887c: 4</td> </tr> <tr> <td><i>Scina tullbergi</i></td> <td>Vosseler</td> <td>1901: 113</td> </tr> <tr> <td><i>Scina tullbergi</i></td> <td>Tattersall</td> <td>1905: 14</td> </tr> <tr> <td><i>Scina tullbergi</i></td> <td>Stephensen</td> <td>1918: 29</td> </tr> <tr> <td><i>-concors</i></td> <td>Stebbing</td> <td>1895: 360</td> </tr> </tbody> </table>			Synonyms:	Author(s)	Status	<i>Scina tullbergi</i> (Tyro)	Bovallius	1885b: 15, 1887: 532, 1887c: 23	<i>Scina tullbergi</i>	Vosseler	1901: 113	<i>Scina tullbergi</i>	Wagler	1926: 384, 1927: 101	<i>-pacifica</i> (Tyro)	Bovallius	1887b: 25, 1887c: 4	<i>Scina tullbergi</i>	Vosseler	1901: 113	<i>Scina tullbergi</i>	Tattersall	1905: 14	<i>Scina tullbergi</i>	Stephensen	1918: 29	<i>-concors</i>	Stebbing	1895: 360
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<p>Classification:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Phylum: Arthropoda</td> <td style="width: 33%;">Sub- Phylum: Mandibulata</td> <td style="width: 33%;">Sub- Class: Malacostraca</td> </tr> <tr> <td>Super class:</td> <td>Class: Crustacea</td> <td>Sub Order: Hyperidea</td> </tr> <tr> <td>Super Order: Peracarida</td> <td>Order: Amphipoda</td> <td>Sub-Family:</td> </tr> <tr> <td>Super Family: Scinoidea</td> <td>Family: Scinidae</td> <td></td> </tr> <tr> <td>Genus: <i>Scina</i></td> <td>Species: <i>tullbergi</i></td> <td></td> </tr> </table> <p>Authority: Bovallius, 1885                  Reference No. Bovallius, C. 1885a. <i>Mimonectes</i>, a remarkable genus. <i>Nova Acta Sci. Reg. Soc. Upsala</i>, ser. 3, pp. 1-16.</p>			Phylum: Arthropoda	Sub- Phylum: Mandibulata	Sub- Class: Malacostraca	Super class:	Class: Crustacea	Sub Order: Hyperidea	Super Order: Peracarida	Order: Amphipoda	Sub-Family:	Super Family: Scinoidea	Family: Scinidae		Genus: <i>Scina</i>	Species: <i>tullbergi</i>													
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<p>Geographical Location: <i>S. tullbergi</i> is the most common surface species of the warm-water regions of the oceans. It is known from the tropical Atlantic (from 39°44' N, 28° 53' S to 33° 53' S, 9° 26'E), Mediterranean Sea, from many parts of the Indian Ocean where its southern most report relates to 42°20' S., 121° 25' E and from the Pacific ocean where it is found from Cape Horn and the Tasman Sea, south to San Diego and north to 20° N. It is found in catches from 0-50, 50-100, 100-200, 200-500m and in horizontal catches from the near-surface layers (40-50m) to depths of 625, 660, and 720m.</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Latitude:</td> <td style="width: 50%;">Place:</td> </tr> <tr> <td>Longitude:</td> <td>State:</td> </tr> </table>			Latitude:	Place:	Longitude:	State:																							
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Environment

Freshwater:

Yes/ No

Habitat: Marine

Salinity:

Brackish:

Yes/No

Migrations:

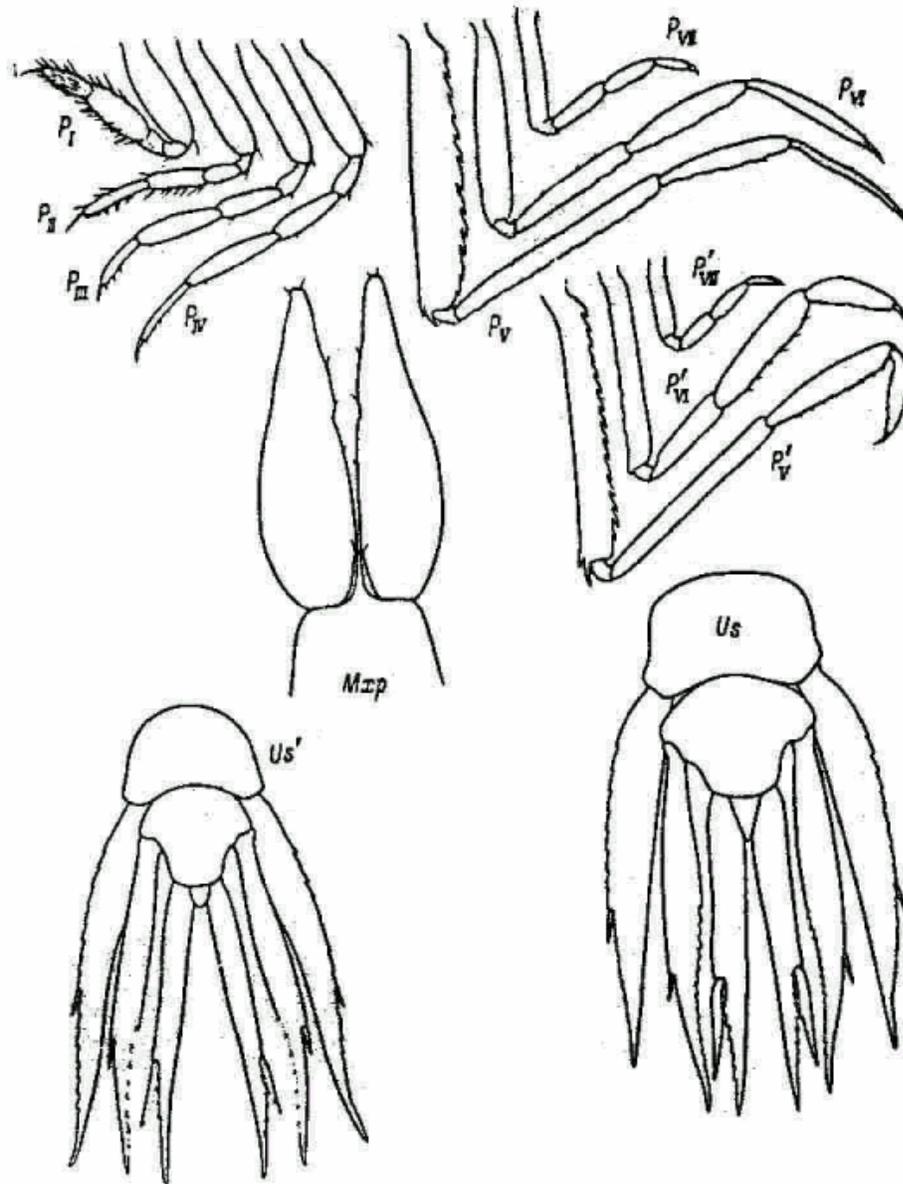
Temperature:

Salt Water:

Yes/No

Depth range :

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



*Scina tulbergi* (Bovallius) (after Wagler, 1926).

<p>DATA ENTRY FORM: No.:</p> <p>(Please answer only relevant fields; add additional fields if you require)</p> <p>Form- 1 Ref. No.:</p>	<p>Form –2 (Fish/ Shell fish/ Others )</p>	<p>Ref.</p>
<p><b>IMPORTANCE</b></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><b>SALIENT FEATURES:</b></p> <p>Morphological:</p> <p>Diagnostic characteristics: One of the smallest <i>Scina</i> species.</p> <p>The body is smooth and without keels. Antennae I are thick and short, not exceeding the pereon in length. The mouth cone is small. The outer lobes of the maxillipeds are long, oblong-oval, tapering distally, with a rounded apex; the inner lobes are very short, only 1/12-1/8 the length of the outer lobes and with two apical setae.</p> <p>Pereopods I have broad segments; the 2<sup>nd</sup> segment is slightly shorter than the 5<sup>th</sup> and 6<sup>th</sup> together; the 5<sup>th</sup> segment is longer than the 6<sup>th</sup>; the claw is long, thin, and slightly curved. Pereopods II are longer and weaker than pereopods I; the 6<sup>th</sup> segment is the same length as the 5<sup>th</sup> or somewhat longer; the claw is long, thin, and straight. Pereopods III and IV are identical in structure but pereopods IV are somewhat longer; the 5<sup>th</sup> segment is somewhat longer than the almost mutually equal 4<sup>th</sup> and 6<sup>th</sup> segments; the claw is slightly curved. Pereopods V are long and strong; the 2<sup>nd</sup> segment is armed on the posterior margin with long and slightly curved spines while the anterior margin is smooth; the distal process is shorter than the 3<sup>rd</sup> segment, with a solitary denticles at its base; the 4<sup>th</sup> segment is only slightly shorter than the 2<sup>nd</sup> and almost twice longer than the 5<sup>th</sup>; the 6<sup>th</sup> segment is equal to the 5<sup>th</sup> or shorter, sometimes being 1/2-2/3 its length; the claw is slightly curved. Pereopods VI are noticeably shorter than pereopods V; their 4<sup>th</sup> segment is considerably smaller, sometimes less than half the length of the 2<sup>nd</sup> segment, and equal to or somewhat shorter than the 5<sup>th</sup>; the 6<sup>th</sup> segment is insignificantly shorter than or equal to the 5<sup>th</sup> segment; the claw is long and slightly curved. Pereopods VII are weak and short; the 4<sup>th</sup> and 5<sup>th</sup> segments together are equal to the 2<sup>nd</sup> in length; the 6<sup>th</sup> segment is shorter than the 5<sup>th</sup>; the claw is large, strong, with a broad base and bent tip.</p> <p>The uropods are weakly armed. Uropods I are denticulate on the entire anterior margin; the denticles on the basi- and endopodite may vary in size; the posterior</p>		

margin is smooth. Uropods II are coarsely denticulate in the distal part of the posterior margin. In uropods III the inner margin of the exo-and endopodite is denticulate. The telson is roundish-triangular with rounded or acute tip.

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: The length ratios of the pereopods segments are subject to fairly significant individual variation, which served as the basis for describing several independent close species, which later were combined into a single fairly variable species.

Size and age:

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

Ref. No.:

Length of sexually mature individuals 2.0-4.5mm.

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.:
<b>SPAWNING INFORMATION:</b> Locality: Season: Fecundity: Comment:	Main Ref:
<b>MAJOR PUBLICATIONS (INDIAN):</b> (Include review articles, monographs, books etc.) <b>LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.)</b>  <div style="text-align: center;"> <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> </div>	
<b>ACKNOWLEDGMENT:</b> (List of persons who contributed, modified or checked information)	