

**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 : Vertebrata (Zooplankton), Fish larvae		
Scientific name & Authority : <i>Chorinemus sanctipetri</i> (Cuvier and Valenciennus) 1831-Adult Common Name ( if available) : Saint Peters Leather Skin		
Synonyms:	Author(s)	Status
<i>Scomberoides sanctipetri</i>	Bleeker	1868
<i>Thynnus molluccensis</i>	Gronov	
Classification:		
Phylum: Vertebrata	Sub- Phylum	
Super Class : Pisces	Class : Osteichthyes	Sub- Class: Actinopterygii
Super Order: Teleostei	Order: Perciformes	Sub Order :Percoidei
Super Family:	Family : Carangidae	Sub-Family:
Genus : <i>Chorinemus</i>	Species : <i>sanctipetri</i>	
Authority: <i>Chorinemus sanctipetri</i> (Cuvier and Valenciennus) 1831		
Reference No.		
Cuvier, G. and A.Valenciennes, 1831. <i>Hist. Nat. Poiss.</i> Paris, <b>8</b> , p. 379.		
Premalatha, P. 1977. A study of the development and distribution of larvae of leather skin <i>Chorinemus sanctipetri</i> (Cuv. and Val.), Carangidae, Pisces, along the south west coast of India. <i>Proc. Symp. On warm water zoopl. Spl. Publ.</i> UNESCO/NIO, Goa: 450-459.		
Geographical Location:		
Tropical and temperate waters of the Indo – Pacific.		
Latitude:	Place:	
Longitude:	State:	

Environment

Fresh water: Yes/ No

Habitat :

Salinity :

Brackish : Yes/ No

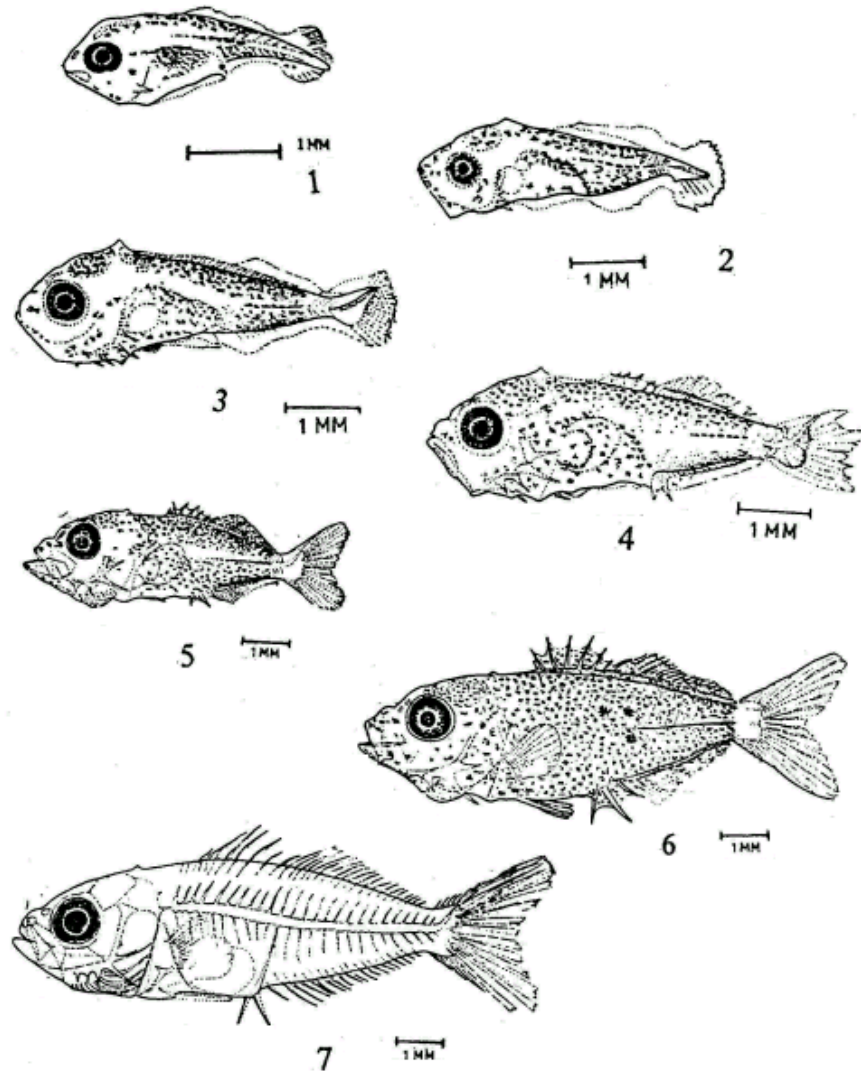
Migrations :

Temperature :

Salt water : Yes✓/ No

Depth range :

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



Figs. 1-7. Larvae of *Chorinemus sanctipetri*

Fig. 1. 3mm, Fig. 2. 3.9 mm, Fig. 3. 5 mm

Fig. 4. 6 mm, Fig. 5. 7 mm, Fig. 6. 10 mm, Fig. 7. 10.5 mm.

(Reproduced from Premalatha, 1977).

<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>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)

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 )

Ref. No.:

Length / weight relationships:

Eggs and larvae:

Ref. No.:

Eggs: Spherical planktonic eggs with smooth chorion, coarsely segmented yolk and oil globule.

Larvae: Larva measuring 3-4 mm has a short stubby pigmented body, and head with less pigmentation. Four opercular spines are present of which 2-3 small ones are in the horizontal position, the third one being at the corner between the horizontal edge and the ascending part of the preopercle. The fourth one is longer than the rest. A small pointed crest present behind the occipital is very characteristic of the group. There are 26 myomeres of which 10 are preanal and 16 post anal. Dorsal and ventral margins of the body are with thick pigmentation up to the 20<sup>th</sup> myotome. On the 14<sup>th</sup> to 19<sup>th</sup> myotomes dash line pigmentation are present in the laterline. Other areas of pigmentation are roof of body cavity, air bladder, lower portion of cleithrum and lower margin of jaws. In 5-6 mm larvae the urostyle is turned upwards, body well pigmented except on the last 5 myotomes. Spines and rays formation are not complete. Out of the 6 opercular spines, 2 small ones are on the ascending part of the preoperculum and the rest on the horizontal part. Most conspicuous change in the body form is noticed in the 10 mm stage, where the larva is deep bodied, stubby with pointed snout. Dorsal crest is very much reduced in size and the caudal base with no pigmentation. D VII-I 19-20, A II I 17-18, pectorals with 16-17 rays. The development of larvae is more or less complete at this stage. Branchiostegals are eight in number. Teeth present in both jaws. (Figs 1-7).

Characteristics:

Abundance:

Biochemical aspects:

Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash

Ref. No.

Electrophoresis:

Ref. No.

**SPAWNING INFORMATION:**

Locality:

Main Ref:

Larvae were collected mainly from the south west and south east coast of India during the period March – May, with peak in April.

Season:

Fecundity:

Comment:

**MAJOR PUBLICATIONS (INDIAN):**

(include review articles, monographs, books etc.)

Premalatha, P. 1977. A study of the development and distribution of larvae of leather skin *Chorinemus sanctipetri* (Cuv. and Val.), Carangidae, Pisces, along the south west coast of India. *Proc. Symp. on warm water zoopl. Spl. Publ. UNESCO/NIO, Goa: 450-459.*

James, P.S.B.R. 1967. Some observation on the fishery of *Chorinemus lysan* (Forsk.) with notes on its biology. *Indian J. Fish.* **11**, 268-272.

Peter, K.J. 1982. Studies on some fish larvae of the Arabian Sea and Bay of Bengal. *Ph. D.Thesis, Univ. of Cochin, 349 pp.*

**LIST OF INDIAN EXPERTS (Name, address, phone, fax, e-mail etc.)**

1. Dr. (Mrs.) P.Premalatha  
Integrated Fisheries Project  
Fore Shore Road  
Kochi – 682 016.  
Ph. (0484) 2352172
2. P.S.B. R. James  
Vice Principal  
Nalanda Mahila Kaleswar  
72/14/2 Sardar Patel Road  
Vijayawada – 520007.
3. Dr. K.J.Peter  
Scientist, NIO. (Rtd)  
Koithara  
54/2950, Kadavanthara South  
Kochi-682020  
Ph. (0484) 2318036  
e-mail: [peterann@md4.vsnl.net.in](mailto:peterann@md4.vsnl.net.in)

**ACKNOWLEDGEMENT:**

(List of persons who contributed, modified or checked information)