

NATIONAL BIORESOURCE DEVELOPMENT BOARD

Dept. of Biotechnology
Government of India, New Delhi

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| 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 : Vertebrata (Zooplankton), Fish larvae | | |
| Scientific name & Authority : <i>Atropus atropus</i> (Bloch and Schneider) 1801 - Adult Common Name (if available) : Keweh | | |
| Synonyms: | Author(s) | Status |
| <i>Brama atropus</i> | Bloch and Schneider | 1801 |
| <i>Carangoides atropus</i> | Blecker | 1851 |
| <i>Caranx atropus</i> | Gunther | 1860 |
| 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>Atropus</i> | Species : <i>atropus</i> | |
| Authority: <i>Atropus atropus</i> (Bloch and Schneider) 1801 | | |
| Reference No. | | |
| Bloch, M.E. and J.G. Schneider, 1801. <i>Syst. Ich. icon Berlin</i> p. 98. | | |
| Premalatha, P. 1991. Studies on the carangid fish larvae of the southwest coast of India: <i>Alectis ciliaris</i> (Bloch, 1788) <i>Alecis indicus</i> (Ruppell 1828) and <i>Atropus atropus</i> (Bloch 1801). <i>J. mar. biol. Ass. India.</i> 33 (1 & 2): 1-8. | | |
| Geographical Location: | | |
| Warm waters of the Indo-Pacific. Commonly found along the east and west coasts of India. | | |
| Latitude: | Place: | |
| Longitude: | State: | |

Environment

Fresh water: Yes/ No

Habitat :

Salinity :

Brackish : Yes/ No

Migrations :

Temperature :

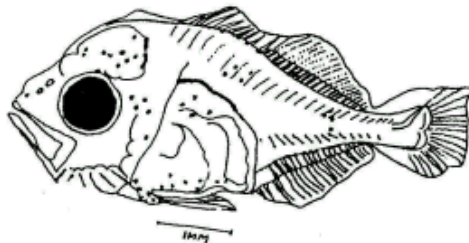
Salt water : Yes/ / No

Depth range :

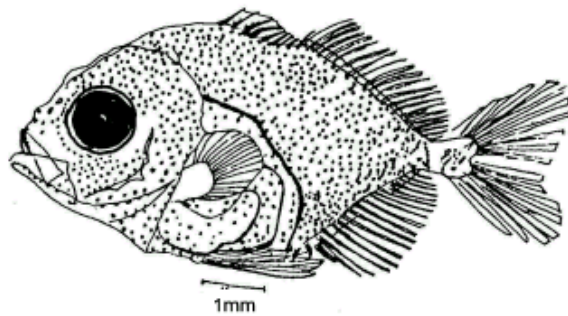
Picture (scanned images or photographs of adult / larval stages)



1.



2



3

Figs. 1- 3 Larvae of *Atropus atropus* (Bloch and Schneider).
(Reproduced from Premalatha, 1991)

Fig. 1. 4.0 mm stage; Fig.2. 6.8 mm stage;

Fig. 3. 10.2 mm stage.

| | | | |
|---|------------------------------------|----|-------------------|
| <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.: |
| <p>Carangid eggs are planktonic spherical, with smooth chorion, coarsely segmented yolk and oil globule.</p> <p>In the larvae (4 mm stage fig.1) body is broad anteriorly and tapered posteriorly. Pigments are found more on dorsal roof of body cavity and intestinal region. Dot like pigments also are located on post anal and ventral margin. Small occipital crest is present. Margin of upper jaw is serrated. Five brachiostragals are seen at this stage. Opercular spines are four in number, one at the corner being the longest. Rudiments of ventral fin appear at this stage and are located in a groove on the ventral side, which is an identifying character of <i>Atropus atropus</i>. Myotomes are 10 + 14, head length 1.5 mm, eye diameter 0.5 mm and depth of body, 1.15 mm.</p> <p>In 6.8 mm larva (fig. 2) body pigmentation is lesser compared to other species of carangids. Almost full set of fin elements are present with a portion of distinct fin rays. Ventral fin is long and pigmented. Dorsal and anal spines are connected by membranes. Pectoral is not developed at this stage. By the time the larva reaches 10.2 mm length (fig. 3) punctate pigments are found all over the body. Ventral fin is long, black and seen in a groove. Branchiostragals are seven in number. Margins of jaws are well serrated. Pectoral fin is with sixteen rays. Fin counts and other meristic characters agree with those of juveniles.</p> | |
| Characteristics: | |
| Abundance: | |
| Biochemical aspects: | |
| Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash | Ref. No. |
| Electrophoresis: | Ref. No. |
| SPAWNING INFORMATION: | |
| Locality: | Main Ref: |
| <p>Larvae were collected from the southwest and southeast coasts of India during the period from May to June.</p> | |
| Season: | |
| Fecundity: | |
| Comment: | |

MAJOR PUBLICATIONS (INDIAN):

(include review articles, monographs, books etc.)

Basheeruddin, S. and K.N. Nayar, 1962. A preliminary study of the juvenile fishes of the coastal waters of Madras city. *Indian J. Fish.* **8** (1): 169-188.

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

Premalatha, P. 1991. Studies on the carangid fish larvae of the southwest coast of India: *Alectis ciliaris* (Bloch, 1788) *Alectis indicus* (Ruppell 1828) and *Atropus atropus* (Bloch 1801). *J. mar. biol. Ass. India.* **33** (1 & 2): 1-8.

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