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 : √ Flora Microorganisms

General Category : Vertebrate (Zooplankton) Fish larvae

Scientific name &Authority : *Istiompax indicus* (Cuvier and Valenciennes) 1829
Adult
Common Name (if available): Black marlin Language: English

Synonyms	Author(s)	Status
Tetrapterus indicus	Cuvier and Valenciennes	1831
Histiophorus brevirostris	Gudger	1929
Makaira indicus	Copley	1954
Marlina marlina	Jordan and Hill	

Classification:
Phylum: Vertebrata Sub-Phylum:
Super class: Pisces Class: Osteichthyes Sub- Class: Actinopterygii
Super order: Teleostei Order: Perciformes Sub Order: Scombroidei
Super Family: Family: Istiophoridae Sub-Family:
Genus: *Istiompax* Species: *indicus*
Authority:
Istiompax indicus (Cuvier and Valenciennes)
Reference No.:
Cuvier, G. and A. Valenciennes, 1829. *Histoire naturella de poissons. Paris* **4**.

Ueyanagi, S. 1960a. On the larvae and spawning areas of the Shirokajiki, *Marlina marlina* (Jordan and Hill). *Rept. Nanki Reg. Fishes. Res. Lab.,* **12**: 97-98.
Ueyanagi, S. and H. Yabe, 1960. On the larvae possibly possible referable to *Marlina marlina* (Jordan and Hill). *Rec. Oceanographic works in Japan,* **5** (2): 167-173.

Geographical Location:
Indo-Pacific, from east coast to west coast of America.
Latitude: Place:
Longitude: State:

Environment

Fresh water: Yes/ No	Habitat :	Salinity :
Brackish : Yes/ No	Migrations :	Temperature :
Salt water : Yes √	Depth range :	

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

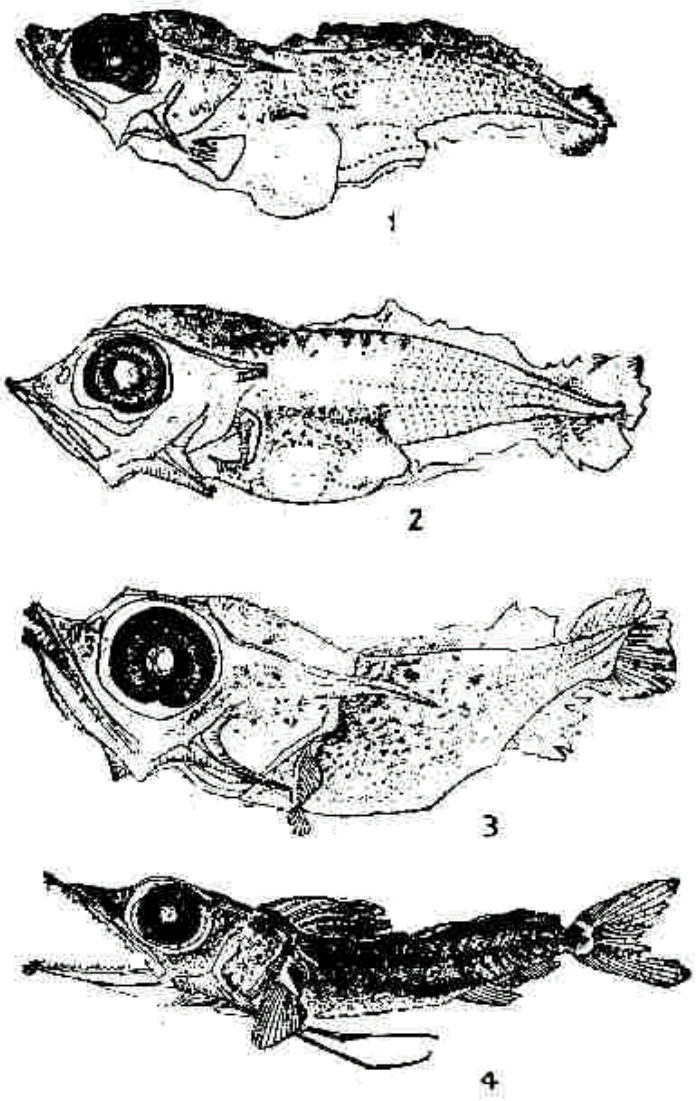

Fig. 1-4. *Istiompax indicus*
Fig.1. 2.5mm. Fig. 2. 3.6mm.
Fig. 3. 5.2mm. (Reproduced from Ueyanagi, 1960a),
Fig. 4. 7.4 mm. (Reproduced from Ueyanagi and Yabe, 1960)

DATA ENTRY FORM: Form- 2(Fish / shellfish / others)
(please answer only relevant fields ; add additional fields if you require)
Form –1 Ref.No.:

IMPORTANCE

Landing statistics (t/y) : from to Place : Ref . No.:
Main source of landing: Yes/ No Coast: east/ west
Importance to fisheries:
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:

SALIENT FEATURES :
Morphological:

Diagnostic characteristics:

Sex attributes:

Descriptive characters:

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 relationalships:

Eggs and larvae: Ref . No.:

Publish records on eggs are not available.

Larva has characteristically short snout and large eyes. Centre of eye is at a higher level from the horizontal line from snout. Chromatophores are not developed in the middle portion of the body in specimens measuring 3.5 mm and those near the urostyle are more prominent. Pectoral fin was found to be regid even in postlarval stages. In a specimen 26.5 mm stage minute spinous scales are found on the post orbital portion, operculum and on the sides of the body (Fig. 1-4)

Characteristics:
Abundance:

Biochemical aspects:
Proximate analysis: moisture/ fat/ protein/ carbohydrate/ash Ref. No.
Electrophoresis: Ref. No.

SPAWNING INFORMATION:

Larvae have been collected from western Pacific, southern waters off Sri Lanka and Indo-Pacific region.

Locality: Main Ref:
Season:
Fecundity:
Comment:

MAJOR PUBLICATIONS (INDIAN):
(Include review articles, monographs, books etc.)

Jones,S. and M.Kumaran, 1964. Eggs, larvae and juveniles of Indian Scombroid fishes. *Proc. Sym. Scombr. Fishes,* Mandapam Camp,(*Mar. Biol. Ass. India*) 1962, **1**: 343-378

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