

YouTube video to facilitate the identification of Yellowfin and Bigeye tuna

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* JFY2024 IOTC-OCFJ Japan project activities

Background

< WPDCS19 (2023) Program of Work >

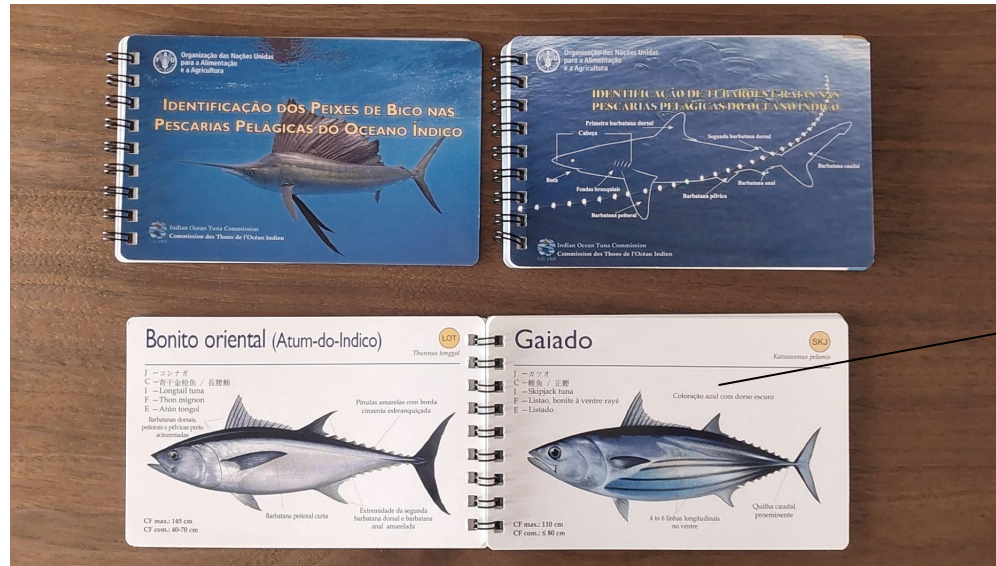
Species ID as an issue

Topic in order of priority	Sub-topic and project
<p>1 Coastal fisheries data collection</p>	<p>1.2 Assist the implementation of data collection and sampling activities for fisheries insufficiently sampled. Recommended actions include: <u>regional training on species identification</u>, designing sampling guidelines for IOTC fisheries. Priority to be given to the following countries / fisheries:</p> <ul style="list-style-type: none"> • Indonesia • India • Bangladesh • Pakistan • I.R. Iran • Kenya • Somalia • Sri Lanka

Background


Species ID cards under translation

(OFCF Japan 2021~2024 / Tuna & Tuna like, Billfish, Shark & Rays to Bengali, Hindi, Malaysian, Sinhalese, Swahili, Tamil, Thai)



Yellowfin tuna vs. Bigeye tuna

Markings



- Yellowfin tuna
 - Closely spaced silvery lines
 - Solid lines alternate with rows of dots
 - Pattern from tail to under pectoral fin and above lateral line



- Bigeye tuna
 - Irregular vertical, widely spaced white lines or marks
 - Pattern irregular, broken, mostly below lateral line

BEWARE: markings and colours can fade quickly after death

Finlets




- Yellowfin tuna
 - Yellow with very thin black margin

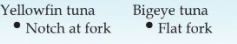


- Bigeye tuna
 - Yellow with marked black margin on posterior edge

Caudal fin



- Yellowfin tuna
 - Notch at fork



- Bigeye tuna
 - Flat fork

Background

Why not YouTube?

80% coastal states; introducing smartphone and tablet to collect fisheries statistics
(result from OFCF Japan scoping study with IOTC secretariat, 2023)



← Videos are also good for learning

↑ Enumerators of Seychelles Fisheries Authority, using tablets for data collection

Materials

Guide by Dr. Itano

+

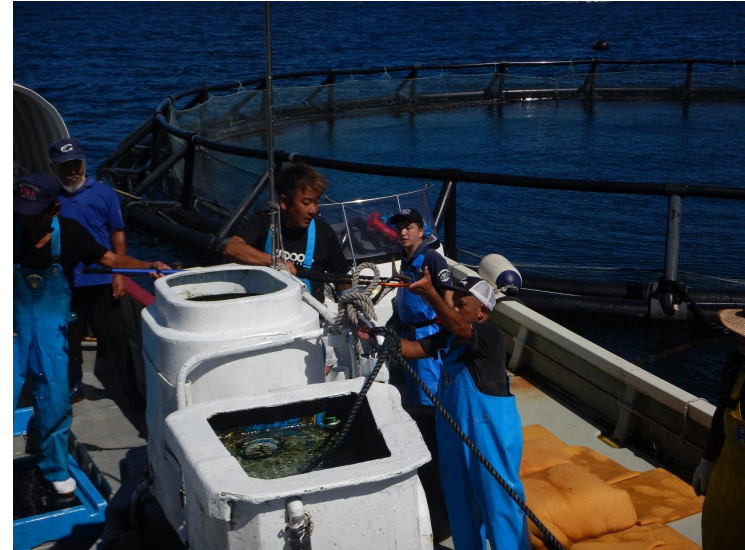
Advised by identification experts

A Handbook for the Identification of
Yellowfin and Bigeye Tunas
in Fresh Condition (v2)



David G Itano
Pelagic Fisheries Research Program
University of Hawaii, JIMAR
Honolulu, Hawaii
USA

December 2005: version 2

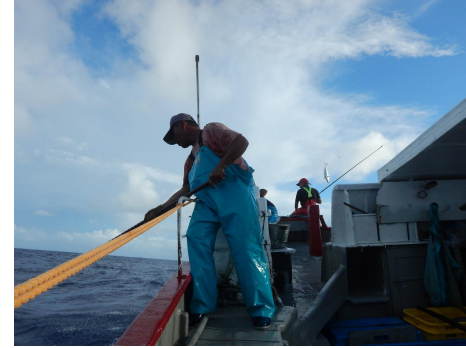


↑ Scientists in charge of rearing experiment
of Yellowfin tuna and Bigeye tuna

(Japan Fisheries Research and Education Agency)

Materials

Collection of YFT and BET on a fishing vessel
(Sep. 2024 at Amami Island, Kagoshima JAPAN)



After 6h



Photos which shows change of color and stripes with passage of time

Present version (demo)



*Upper-jaw fork length

UJ* 45~110 cm

Bigeye tuna ?
(*Thunnus obesus*)

Yellowfin tuna ?
(*Thunnus albacares*)



Broadcast

By WPDCS 20, Nov. 2024 at the IOTC-OFCF Japan project channel



検索



IOTC-OFCF Japan project

@IOTC-OFCFJapan_project · チャンネル登録者数 1 人 · 1 本の動画

このチャンネルの詳細 ...さらに表示

チャンネルをカスタマイズ

動画を管理



Bullet tuna ?
(*Auxis rochei*)

Frigate tuna ?
(*Auxis thazard*)



Identification of Bullet tuna and
Frigate tuna

Future works

- Small size (under UJ 40 cm) YFT & BET video
- Specialized website for IOTC target species identification
- Photo library (in the website)
- Smartphone available application

Thank you for your attention !



With special thanks to Japan Fisheries Research and Education Agency