



Scientific Committee  
Fourteenth Regular Meeting  
Stock Assessment  
Theme Session

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# Overview

- 4.1 WCPO Tunas
- 4.2 Northern Stocks
- 4.3 WCPO Sharks
- 4.4 WCPO Billfishes

# WCPO Tunas

## 4.0 MULTIFAN-CL Software

### Improvement of MULTIFAN-CL Software

- Refer to SA-IP-02 as needed.

# WCPO Tunas

## Item 4.1.1 WCPO Bigeye Tuna

- Lead: Brodziak
- Support: Aoki and Sculley

# WCPO Tunas

## 4.1.1.1 WCPO Bigeye Tuna

### Project 81 Further Work on Bigeye Tuna Age and Growth

- SA-WP-01 Update on age and growth of bigeye tuna in the WCPO: WCPFC Project 81 by Farley et al.
- Refer to SA-IP-01 & 04 as needed.

# WCPO Tunas

## 4.1.1.1 WCPO Bigeye Tuna

### Update of WCPO Bigeye Tuna Stock Assessment

- SA-WP-02 A compendium of fisheries indicators for tuna stocks by Brouwer et al.
  - bigeye tuna section.

# WCPO Tunas

## 4.1.1.1 WCPO Bigeye Tuna

### Update of WCPO Bigeye Tuna Stock Assessment

- SA-WP-03 Incorporation of updated growth information within the 2017 WCPO bigeye stock assessment grid, and examination of the sensitivity of estimates to alternative model spatial structures by Vincent et al.
- Refer to SA-IP-01 as needed.

# WCPO Tunas

## 4.1.1.2 WCPO Bigeye Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications



# WCPO Sharks

\*Item 4.3.4 North Pacific Blue Shark

- Lead: Brodziak
- Support: Carvalho and Katsumata

# WCPO Sharks

## \* 4.3.4.1 North Pacific Blue Shark

### North Pacific Blue Shark Research and Information

- SA-WP-09 Indicators of the spatial distribution of blue shark (*Prionace glauca*) in the North Pacific by Hampton.
- Refer to SA-IP-13 as needed.
- No New Information on Stock Status

# WCPO Sharks

## \* 4.3.4.2 North Pacific Blue Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Tunas

## Item 4.1.2 WCPO Yellowfin Tuna

- Lead: Minami
- Support: Aoki and Curran

# WCPO Tunas

## 4.1.2.1 WCPO Yellowfin Tuna

### Project 82 Yellowfin Tuna Age and Growth

- SA-WP-13 Progress on yellowfin tuna age and growth in the WCPO: WCPFC Project 82 by Farley et al.

# WCPO Tunas

## 4.1.2.1 WCPO Yellowfin Tuna

### Update of Yellowfin Tuna Stock Assessment Information

- SA-WP-02 A compendium of fisheries indicators for tuna stocks by Brouwer et al.  
– yellowfin tuna section.
- Refer to SA-IP-01 as needed.

# WCPO Tunas

## 4.1.2.2 WCPO Yellowfin Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Tunas

## Item 4.1.3 WCPO Skipjack Tuna

- Lead: Minami
- Support: Fitchett and Sato



# WCPO Tunas

## 4.1.3.1 WCPO Skipjack Tuna

### Update of Skipjack Tuna Stock Assessment Information

- SA-WP-02 A compendium of fisheries indicators for tuna stocks by Brouwer et al – skipjack tuna section.

# WCPO Tunas

## 4.1.3.1 WCPO Skipjack Tuna

### Update of Skipjack Tuna Stock Assessment Information

- SA-WP-04 Improvements in skipjack (*Katsuwonus pelamis*) abundance index based on the fish size data from Japanese pole-and-line logbook (1972–2017), Rev 1 by Kinoshita et al.
- Refer to SA-IP-05 & 06 as needed.

# WCPO Tunas

## 4.1.3.2 WCPO Skipjack Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Tunas

## Item 4.1.4 South Pacific Albacore Tuna

- Lead: Brodziak
- Support: Ochi and Sculley

# WCPO Tunas

## 4.1.4.1 South Pacific Albacore Tuna

### South Pacific Albacore Tuna Stock Assessment

- SA-WP-02 A compendium of fisheries indicators for tuna stocks by Brouwer et al.
  - South Pacific albacore tuna section.

# WCPO Tunas

## 4.1.4.1 South Pacific Albacore Tuna

### South Pacific Albacore Tuna Stock Assessment

- SA-WP-05 SPC-OFP Stock assessment of south Pacific albacore tuna in the WCPO by Tremblay-Boyer et al.
- Refer to SA-IP-07 as needed.

# WCPO Tunas

## 4.1.4.1 South Pacific Albacore Tuna

### Trends in the South Pacific Albacore Longline and Troll Fisheries

- Refer to SA-IP-08 as needed.

# WCPO Tunas

## 4.1.4.2 South Pacific Albacore Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications



# Northern Stocks

## Item 4.2 Northern Stocks

- Lead: Minami & Brodziak

# Northern Stocks

## 4.2 ISC Stock Assessments and Future Plans

- GN-IP-02. ISC. Report of the 18<sup>th</sup> meeting of the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean

# Northern Stocks

## Item 4.2.1 North Pacific Albacore Tuna

- Lead: Minami

# Northern Stocks

## 4.2.1 North Pacific Albacore Tuna

### North Pacific Albacore Tuna Research and Information

- No New Information

# Northern Stocks

## 4.2.1.2 North Pacific Albacore Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# Northern Stocks

## Item 4.2.2 Pacific Bluefin Tuna

- Lead: Minami
- Support: Post and Uosaki

# WCPO Tunas

## 4.2.2.1 Pacific Bluefin Tuna

### Pacific Bluefin Tuna Stock Assessment

- SA-WP-06 Stock Assessment of Pacific Bluefin Tuna (*Thunnus orientalis*) in the Pacific Ocean in 2018 by ISC Pacific Bluefin Tuna Working Group.

# Northern Stocks

## 4.2.2.2 Pacific Bluefin Tuna: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications



# Northern Stocks

## Item 4.2.3 North Pacific Swordfish

- Lead: Brodziak
- Support: Fitchett and Kiyofuji

# WCPO Tunas

## 4.2.3.1 North Pacific Swordfish

### North Pacific Swordfish Stock Assessment

- SA-WP-07 Stock assessment for swordfish (*Xiphias gladius*) in the western and central north Pacific Ocean through 2016 by ISC Billfish Working Group.

# Northern Stocks

## 4.2.3.2 North Pacific Swordfish: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

## Item 4.3.1 Oceanic Whitetip Shark

- Lead: Brodziak
- No New Information

# WCPO Sharks

## 4.3.1.2 Oceanic Whitetip Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

\* Item 4.3.5 North Pacific Shortfin  
Mako Shark

- Lead: Brodziak
- Support: Chang and Katsumata

# WCPO Sharks

\* 4.3.5.1 North Pacific Shortfin Mako Shark

## North Pacific Shortfin Mako Shark Stock Assessment

- SA-WP-11 Stock Assessment of Shortfin Mako Shark in the North Pacific Ocean through 2016 by ISC Shark Working Group.

# WCPO Sharks

## \* 4.3.5.2 North Pacific Shortfin Mako Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications



# WCPO Sharks

## Item 4.3.3 South Pacific Blue Shark

- Lead: Minami
- No New Information

# WCPO Sharks

## 4.3.3.2 South Pacific Blue Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

\*Item 4.3.2 Silky Shark

- Lead: Minami
- Support: Sculley and Tsuji

# WCPO Sharks

## \* 4.3.2.1 Silky Shark

### Pacific Silky Shark Stock Assessment

- SA-WP-08 Pacific-wide Silky Shark (Carcharhinus falciformis) Stock Status Assessment by Common Oceans ABNJ Tuna Project.
- Refer to SA-IP-09 as needed.

# WCPO Sharks

## \* 4.3.2.2 Pacific Silky Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

## Item 4.3.6 Pacific Bigeye Thresher Shark

- Lead: Minami
- No New Information

# WCPO Sharks

## 4.3.6.2 Pacific Bigeye Thresher Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

## Item 4.3.7 Southern Porbeagle Shark

- Lead: Brodziak
- No New Information



# WCPO Sharks

## 4.3.7.2 Southern Porbeagle Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Sharks

## Item 4.3.8 Indo-Pacific Whale Shark

- Lead: Minami
- Support: Carvalho and Kei Okamoto

# WCPO Sharks

## 4.3.8.1 Indo-Pacific Whale Shark

### Indo-Pacific Whale Shark Research and Information

- SA-WP-12 Risk to the Indo-Pacific whale shark (*Rhincodon typus*) population from interactions with Pacific purse seine fisheries by Common Oceans ABNJ Tuna Project.

# WCPO Sharks

## 4.3.5.8 Indo-Pacific Whale Shark: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# WCPO Billfishes

## Item 4.4.1 South Pacific Swordfish

- Lead: Brodziak
- No New Information

# WCPO Billfishes

## 4.4.1.2 South Pacific Swordfish: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# Assignment of Rapporteurs

## Item 4.4.2 South Pacific Striped Marlin

- Lead: Brodziak
- No New Information

# WCPO Billfishes

## 4.4.2.2 Southwest Pacific Striped Marlin: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications



# Assignment of Rapporteurs

## Item 4.4.3 North Pacific Striped Marlin

- Lead: Brodziak
- Support: Carvalho and Kei Okamoto

# WCPO Sharks

## 4.4.3.1 North Pacific Striped Marlin

### North Pacific Striped Marlin Research and Information

- Refer to SA-WP-11 & 12 as needed.

# WCPO Billfishes

## 4.4.3.2 North Pacific Striped Marlin: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

# Assignment of Rapporteurs

## Item 4.4.4 Pacific Blue Marlin

- Lead: Brodziak
- No New Information

# WCPO Billfishes

## 4.4.4.2 Pacific Blue Marlin: Provision of Scientific Information

- SC14 will provide agreed text for the following:
  - a. Status and trends
  - b. Management advice and implications

Thank You and  
Mahalo !

