

SC20 Recommendations

Not covered under other agenda items

Agenda Item 6.3 WCPFC-21-2024-09

WCPFC-2024-09 | Suva, Fiji | 28 November – 3 December 2024

20th Regular Session of the Scientific Committee (SC20) Manila, Philippines - August 14-21, 2024

Data and Statistics Theme - Convenor: Valerie Post (USA)

Stock Assessment Theme - Convenors: Hidetada Kiyofuji (Japan), Berry Muller (RMI), Michelle Sculley (USA)

Management Issues Theme - Convenor: Emily Crigler (USA)

Ecosystem and Bycatch Theme - Convenors: Yonat Swimmer (USA), Leyla Knittweis (NZ)



Western and

Commission

Fisheries

Central Pacific

SC20 Outcomes & Recommendations



1) A full list of SC20 outcomes & recommendations available:

- SC20 Outcomes Document
- SC20 Summary Report
- 2) Related documents

<u>A6.3 – WCPFC-2024-09</u>: Outcomes not covered under other agenda items (covering Data and Statistics, Stock Assessment, Budget and Administration)

A6.4 – WCPFC-2024-10: Outcomes relating to harvest strategies
 A6.6 – WCPFC-2024-15: Outcomes relating to climate change
 A11 – WCPFC-2024-24: Updates on cooperation with other organizations; and
 WCPFC-2024-25: International developments and implications for WCPFC, including deep-sea mining

Data and Statistics Theme

1. Additional LL Operational Data Fields

- SC20 recommended the Commission consider possible inclusion of additional longline operational data fields (<u>SC20-ST-WP-08</u>, Table ST-01) in the "Scientific Data to be Provided by the Commission (Sci Data)" <u>as voluntary reporting</u> <u>items</u>
 - ✓ (1) Target species; (2) Number of lightsticks; (3) Bait type; (4) Mainline length; (5) Length of branchline; (6) Length of float line; (7) Vessels speed; and (8) Speed of line setter

2. Additional Code for the ACTIVITY Field

• SC20 recommended the Commission consider the addition of a new activity code for any day when a "transhipment at sea occurs" within the Sci Data (SC20-ST-WP-08).



	Table ST-01 Proposed new voluntary additional longline operational data fields		
DATA FIELD	Suggested PROTOCOL for data collection		
Target species for the set	Record the primary target species, or group of species, for this set.		
Number of lightsticks used in set	Record the total number of lightsticks used in the set.		
Bait type used in set	Record the FAO	ecord the FAO code(s) ³ for type of bait(s) used for the set. Example types:	
	FAO Code	Taxa/species categories	
	CLP	HERRINGS, SARDINES, NEI	
	DPT	DECAPTHURUS SP MUROAJI	
	MAX	MACKERELS NEI	
	MIL	MILKFISH	
	MSD	MACKEREL SCAD	
	PIL	EUROPEAN PILCHARD (=SARDINE)	
	SAP	PACIFIC SAURY	
	SQU	VARIOUS SQUIDS NEI	
	TUN	TUNAS NEI	
	OTHERS	Comment on bait type	
Mainline length	Record the mainline length (in kilometers) used in the trip or set, as appropriate.		
Length of branch line	Record the average length in meters of the branch lines in the trip or set. (The total length from the mainline to the hook).		
Length of float line	Record the average length in meters of the float lines in the set. (The total length from the float to the mainline).		
Vessel speed during setting	Record the average speed in knots of a vessel during line setting.		
Speed of the line setter	Record the speed in knots of the line setter (i.e., the line shooter speed).		
Seller			

Data and Statistics Theme



3. Revision to CMM 2018-04

- WCPFC20 tasked SC20 to review the SciData requirements to capture turtle interactions under CMM 2018-04, paragraphs 5.c.and 7.e.
- Some CCMs have different interpretations of the requirements, specifically as to whether the paragraphs require reporting through submission of operational level data or in a summary form
- SC20 suggested the Commission consider clarifying the requirements of these paragraphs to resolve any ambiguity.





- SC20 reviewed five new stock assessments in 2024:
 - South Pacific albacore (SPC)
 - WCPO silky shark (SPC)
 - Southwest Pacific striped marlin (SPC)
 - Pacific bluefin tuna (ISC)
 - North Pacific shortfin Mako shark (ISC)
- Advice from SC20 relating to Stock Status from 2024 assessments discussed under Status of WCPO Stocks (Agenda 6.1)



4. Projection scenarios for next SWP Striped Marlin stock assessment

- SC20 recommended that WCPFC21 request a tractable set of projections including but not limited to the four scenarios proposed below:
 - Status quo scenario: Projection based on recent catch levels;
 - **Recovery scenario 1:** Projection using catch levels that result to a median depletion of 20% by 2034;
 - **Recovery scenario 2:** Projection using catch levels that result to a median depletion of 30% by 2034; and
 - Non-retention/live release scenario: Projection using catch levels that reflect the likely outcomes under a management measure requiring release of live animals or non-retention of all animals.



5. Peer review recommendations for revision of WCNPO Striped Marlin:

- SC20 noted the following advice from ISC24:
 - ISC24 maintained the conservation advice of WCNPO MLS from 2023
 - ISC24 provided the results of rebuilding projections which evaluated harvesting scenarios to achieve WCNPO MLS interim rebuilding target (20%SSBF=0 with more than 60% probability).
- SC20 noted the recommendations of the peer review of WCNPO MLS stock assessment (SC20-SA-WP-13) and recommended that these be incorporated into the future stock assessment scheduled for 2027.
- SC20 recommended the Commission to take the above information into account when considering a possible revision of the CMM for North Pacific striped marlin.







Attachment 1

6. Stock Assessment Template Review

Stock Status and Management Advice:

 SC20 thanked the consultants for their work on Project 113b and agreed on the need for a standardized approach to reporting stock status and management advice from stock assessments for the work of the Commission and recommended it as a guideline. SC20 recommended the Commission to review the template in Attachment 1 and advise, if necessary.

Stock Status and Management Advice Template

. Stock assessment and trends

Paragraphs (link to Figures)

- 1. Describe the assessment structure and rationale (Fig 1, Table 1)
- 2. Describe the main uncertainties considered (Table 2)
- Describe annual catch estimates and trends (Figure 2)
- 4. Describe CPUE trends and other indicators of biomass trends (Figure 3)
- 5. Describe trends in a diagnostic model, including recruitment, spawning potential, and fishing mortality, as well as performance against diagnostics (Figures 4-6)
- 6. Describe the depletion of spawning stock biomass and associated uncertainty (Figure 7)
- 7. Describe stock assessment results compared to the previous assessment
- Table 1. Assessment structure, including key fisheries and catch proportions. No defined format to accommodate alternative assessment methods.
- Table 2. Summary of main sources of uncertainty in the assessment, with a degree of confidence assigned to each aspect of the assessment and potential source of uncertainty.
- Figure 1. Spatial structure used in the 20XX stock assessment model
- Figure 2. Time series of total annual catch (1000's mt) by fishing gear over the full assessment period
- Figure 3. Time series of CPUE and/or other main abundance indices
- Figure 4. Estimated annual average recruitment by model region for the diagnostic case model, including estimation uncertainty.
- Figure 5. Estimated annual average spawning potential by model region for diagnostic case model, including estimation uncertainty.
- Figure 6. Estimated annual average juvenile and adult fishing mortality for the diagnostic case model, including estimation uncertainty.
- **Figure 7.** Plot showing the trajectories of spawning biomass and spawning biomass depletion (of spawning potential) by region, including uncertainty arising from estimation, structural, and intrinsic uncertainties (variability and process error).

Budget & Administration



7. Website development to support direct submission of SC papers and proposals

Future Operations of the Scientific Committee

• SC20 recommended that the Secretariat work with SC Theme Convenors and the SC Chair to develop a process to submit all papers and project proposals through the WCPFC website, to further streamline the submission process and allow for greater organization and tracking of submissions, for implementation in advance of SC21.

Swan Song: Farewell Dr. Bigelow



