2023 SPC Pre-assessment Workshop Agenda (Version 1a) 25th- 28th April, Noumea and hybrid.

Join Zoom Meeting

https://spc.zoom.us/j/93767261839?pwd=SlowaHNPcVJNQlBlQlpFQVJwaDRWZz09

Meeting ID: 937 6726 1839 **Passcode:** 417833

Times are New Caledonia

Chair: Paul Hamer, pauh@spc.int
Alternates: Graham Pilling, grahamp@spc.int Claudio Castillo Jordan, claudioc@spc.int

Tuesday 25th April (Mon 24th US)	**DAY 1: 2023 yellowfin tuna assessment**	**Presenter initials and presentation number**
09:00 – 09:15	**Introduction** • Reminder of TOR and objectives for the SPC preparatory workshop • Agenda and meeting format/procedures • Any other introductory comments	PH
09:15 – 10:00 *Session 1* *(45 mins)*	**Background and peer review** • Previous yellowfin tuna assessment summary (10 mins) • Peer review summary – key recommendations and related focus areas for 2023 assessments (15 mins) Discussion (15 mins)	• AM **(P1)** • AM/PH **(P2)**
10:00 – 10.30	BREAK	
10.30-12.00 *Session 2* *(90 mins)*	**Conceptual models of biology and spatial structure** • Consider information and options for spatial structure and fishery definitions (60 mins) • Discussion (20 mins)	• PH (background and biology) **(P3)** • IS (SEAPODYM) **(P4)** • JP (Size composition) **(P5)** • JM (CPUE patterns) **(P6)** (15 mins each)

12.00-13.00 *Session 3* *(70 mins)*	**Data inputs** • Catch and effort, and raw size data (15 mins) • Size composition data treatment, triage, and spatial/temporal weighting (15 mins) • Basis for CPUE indices (15 mins) • Conditional age at length data summary (10 mins) • Tagging data summary (10 mins)	• TT **(P7)** • TP/AM **(P8)** • TT (**P9**) • AM (**P10**) • TT/JS (**P11**)
13.10-14.00	Lunch BREAK (50 mins)	
14:00 *Session 4* (30 *mins)*	**Biology** • Growth • Natural mortality • Maturity/reproductive biology • Sex specific? (20 mins) Discussion (10 mins)	• AM (**P12**)
14.30-15.40 *Session 5* *(70 mins)*	**CPUE analysis** • Background • From VAST to sdmTMB • CPUE results so far, peer review related analyses • SEAPODYM information (YFT up to 2010) Discussion (20 mins)	• TT **(P13)**
15.40-17.00 *Session 6* *(80 mins)*	**Model development** • 2023 diagnostic model development • Preliminary model results and diagnostics • Size data likelihood and related concerns, input sample sizes, data weighting, tag mixing …. • Uncertainties and model ensemble options Discussion (20 mins)	• AM/JH/ND and all **(P14)**
17.00	Discussion and wrap up for the day (as needed)	All/PH
Wednesday 26th April (Tuesday 25th US)	**DAY 2: 2023 bigeye tuna assessment and external presentations**	

09:00 –10.00 *Session 7* *(60 mins)*	**External presentations: age/growth, conversion factors** ● Bomb radiocarbon age validation work (15 mins + 5 mins) ● Yellowfin sea cage growth experiment (15 mins + 5 mins) ● Project 90: conversion factors (15 mins + 5 mins)	● AA **(P15)** ● KO **(P16)** ● JM **(P17)**
10.00-10.30 *Session 8* *(30 mins)*	● Previous bigeye tuna assessment summary (15 mins) ● Implication from yellowfin peer review (10 mins)	● JD **(P18)**
10:30 – 11.00	BREAK (30 mins)	
11.00-12.00 *Session 9* *(60 mins)*	**Conceptual models of biology and spatial structure** ● Consider information and options for spatial structure and fishery definitions (40 mins) ● Discussion (20 mins)	● PH (background and biology) **(P19)** ● IS (SEAPODYM) **(P20)** ● JP (Size composition) **(P21)** ● JM (CPUE patterns) **(P22)** (10 mins each, focus on results)
Session 9 *12.00 -13.00* *(60 mins)*	**Data inputs** ● Catch and effort, and raw size data (15 mins) ● Size composition data treatment, triage, and spatial/temporal weighting (10 mins) ● Basis for CPUE indices (10 mins) ● Conditional age at length data summary (10 mins) Tagging data summary (10 mins)	● TT **(P23)** ● TP/JD **(P24)** ● TT/JS **(P25)**
13.00-14.00	Lunch BREAK (60 mins)	
Session 10 *14.00 -14.30* *(30 mins)*	**Biology** ● Growth ● Natural mortality ● Maturity/reproductive biology ● Sex specific? (20 mins) Discussion (10 mins)	● JD **(P26)**

14.30-15.10 *Session 11* *(40 mins)* *(reduced as methods covered for yellowfin)*	**CPUE analysis** ● Background, VAST to sdmTMB ● CPUE results so far, and additional analyses (30 mins) Discussion (10 mins)	• TT **(P27)**
15.10 -16.20 *Session 12* *(70 mins)*	**Model development** ● 2023 diagnostic model development ● Preliminary model results and diagnostics ● Size data likelihood and related concerns, input sample sizes, data weighting, tag mixing …. ● Uncertainties and model ensemble options Discussion (20 mins)	• JD/JH/ND and all **(P28)**
16.20	Discussion and wrap up day (as needed)	All
Thursday 27th April (Wed 26th US)	**DAY 3: MFCL, MSE, and Skipjack assessment follow-up work**	
09.00-9.15	Overnight thoughts/follow-ups	PH
9.15-10.30 *Session 13* *(75 mins)*	**MFCL** ● Recent developments and future work for Multifan-CL (25 mins) ● Looking forward – future software for tuna assessments – what's next for MFCL (20 mins) Discussion (20 mins)	• ND **(P29)**
10:30 – 11.00	BREAK	
11.00-11.20 *Session 14* *(20 mins)*	**Tuna Management Strategy Evaluation** ● Update on progress and 2023 technical workplan (10 mins) Discussion (10 mins)	• RS/FS **(P30)**

11.20-13.00 *Session 15 (40 mins)*	• MSE – Skipjack MP (40 mins)	• RS **(P31)**
13.00-14.00	• Lunch BREAK	
14.00-15.00- *Session 16* *(60 mins)*	• MSE – Albacore MSE, OMs and EMs (35 mins) • MSE – mixed fisheries overview and update (15 mins) Discussion (10 mins)	• RS/FS/NY **(P32)** • FS **(P33)**
15.00-16.00 *Session 17* *(60 mins)*	• Skipjack stock assessment follow-up work (40 mins) (Discussion 20 mins)	• CCJ/JH/PH **(P34)**
	BBQ on the deck 6pm	
Friday 28th April (Thurs 27th US)	**DAY 4: SEAPODYM, Silky shark assessment, tuna research plan, unfinished discussions.**	
9.30-10 30 pm *Session 18* *(60 mins)*	• SEAPODYM overview and development plan	• IS **(P35)**
10.30 -11.00	Break	
11.00 -12.30 Session 19 (90 min)	• Previous silky shark assessment summary • Available data summary/fishery characterization • Plans for catch reconstruction and potential assessment approach. • Preliminary analysis	• PN **(P36)**
12.30 -13.00 Session 20 (30 min)	• Tuna research plan review	• **GP (P37)**
13.00-14.00	Lunch BREAK	

14.00-15.00	• Unfinished discussions as needed	
15.00 Wrap up and Follow-up	**WRAP UP-Follow-up** ● Note any key recommendations ● Meeting draft paper circulated for comments ● Comments received ● Meeting paper finalized for SC16 submission ● Aim for end of May	PH

PH Paul Hamer, AM Arni Magnusson, CCJ Claudio Castillo Jordan, ND Nick Davies, JD Jemery Day, TT Thom Teears, RS Rob Scott, FS Finlay Scott, TP Tom Peatman, KO Kei Okamoto, NY Nan Yao, PN Philipp Neubauer, JSP Joe Scutt Phillips, JH John Hampton, AA Allen Andrews, GP Graham Pilling, IS Inna Senina, JP Joanne Potts.