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# Agenda Item 2 - SPA Mgmt objectives and TRP

SPA-IWG4, Virtual, May 2023

# Content

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- Approach
- Initial Table
- Additional requests

# Updated TRP evaluations

- Same set up as before:
  - 72 models in the grid (from the 2021 stock assessment)
  - 100 replicates (iterations) per model
  - Weighted according to SC 2021 (Seapodym movement is downweighted)
- Alternative treatment of NAs in the result data, i.e. what to do if the projection failed.
  - Originally, NAs were ignored.
  - New: NA assumed to be the result of the stock crashing during the projection.
  - Projected biomass set to 0 for these replicates.
- Results are now slightly different from the original (WCPFC19) table.



# Updated TRP evaluations – WCPFC19 settings

Depletion			Vulnerable biomass		Approximate catch			F/F <sub>MSY</sub>
Long-term avg SB/SB <sub>F=0</sub> (WCPFC-CA)	SB/SB <sub>F=0</sub> rel. 2017-2019	Risk < LRP	VB rel. 2013+8%	VB rel. 2017-2019	Catch scalar	WCPFC-CA	Remainder EPO	Risk F > F <sub>MSY</sub>
0.41	-17%	26%	-41%	-18%	<b>1</b>	72,200	15,600	17%
0.47	-4%	19%	-33%	-7%	0.9	65,000	15,600	14%
0.53	8%	14%	-25%	4%	0.8	57,800	15,600	10%
0.58	19%	8%	-18%	15%	0.7	50,500	15,600	6%
0.64	30%	4%	-10%	25%	0.6	43,300	15,600	3%
0.69	40%	1%	-3%	35%	0.5	36,100	15,600	0%

Just WCPFC management (just scale catches in WCPO, EPO fixed at ~ 15,600 mt)

# Updated TRP evaluations – additional requests

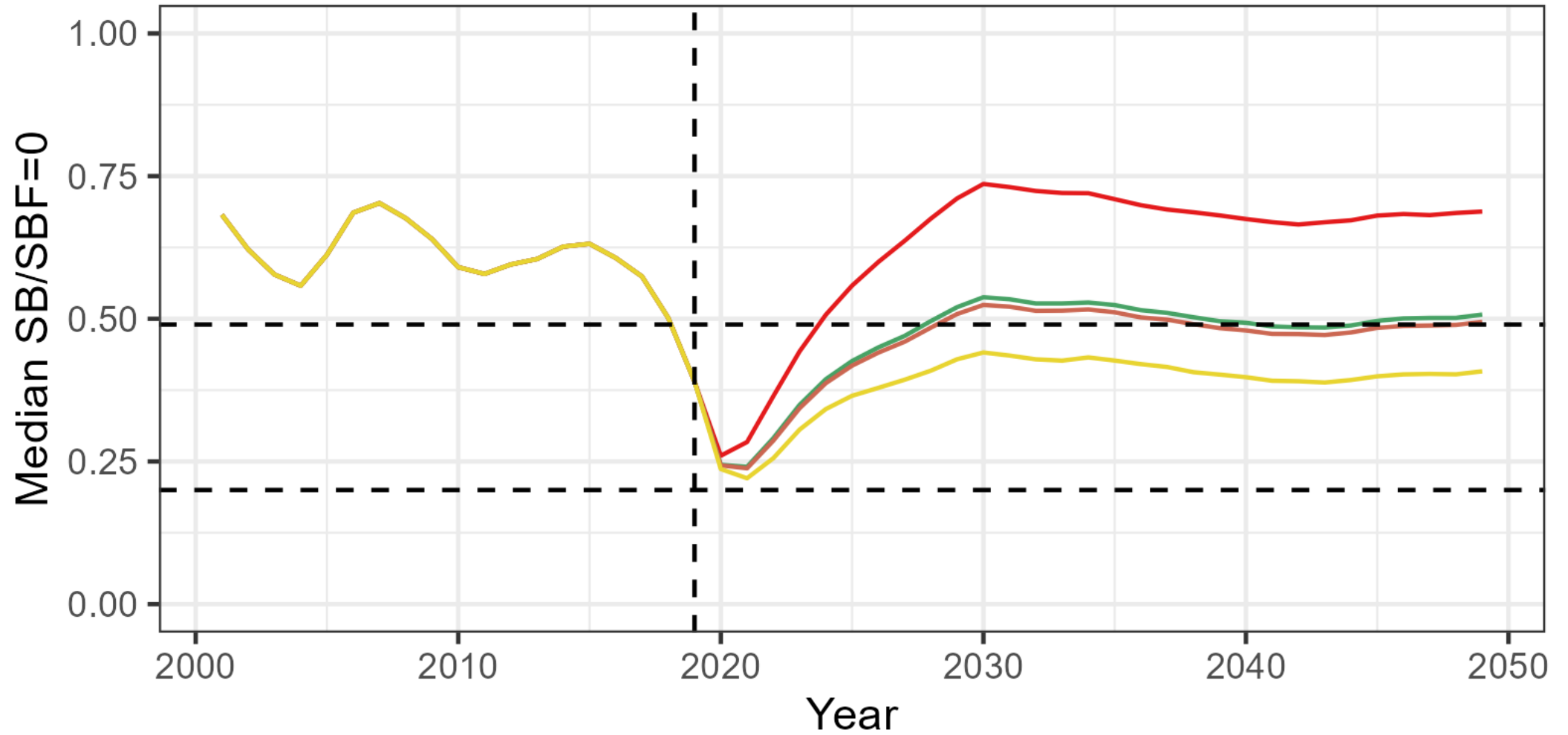


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Depletion			Vulnerable biomass		Approximate catch			F/FMSY
Long-term avg SB/SB <sub>F=0</sub> (WCPFC-CA)	SB/SB <sub>F=0</sub> rel. 2017-2019	Risk < LRP	VB rel. 2013+8%	VB rel. 2017-2019	Catch scalar	WCPFC-CA	Remainder EPO	Risk F > F <sub>M</sub> SY
0.49	<b>0%</b>	17%	-30%	-3%	0.86	62,500	15,600	12%
0.51	3%	16%	-28%	<b>0%</b>	0.84	60,500	15,600	12%
0.41	-17%	26%	-41%	-18%	1	72,200	15,600	17%
0.47	-4%	19%	-33%	-7%	0.9	65,000	15,600	14%
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Just WCPFC management (just scale catches in WCPO, EPO fixed at ~ 15,600 mt)

# Visualisation



Scalar 0.5 0.84 0.86 1



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