

2025 simple update of SAM for Pacific saury

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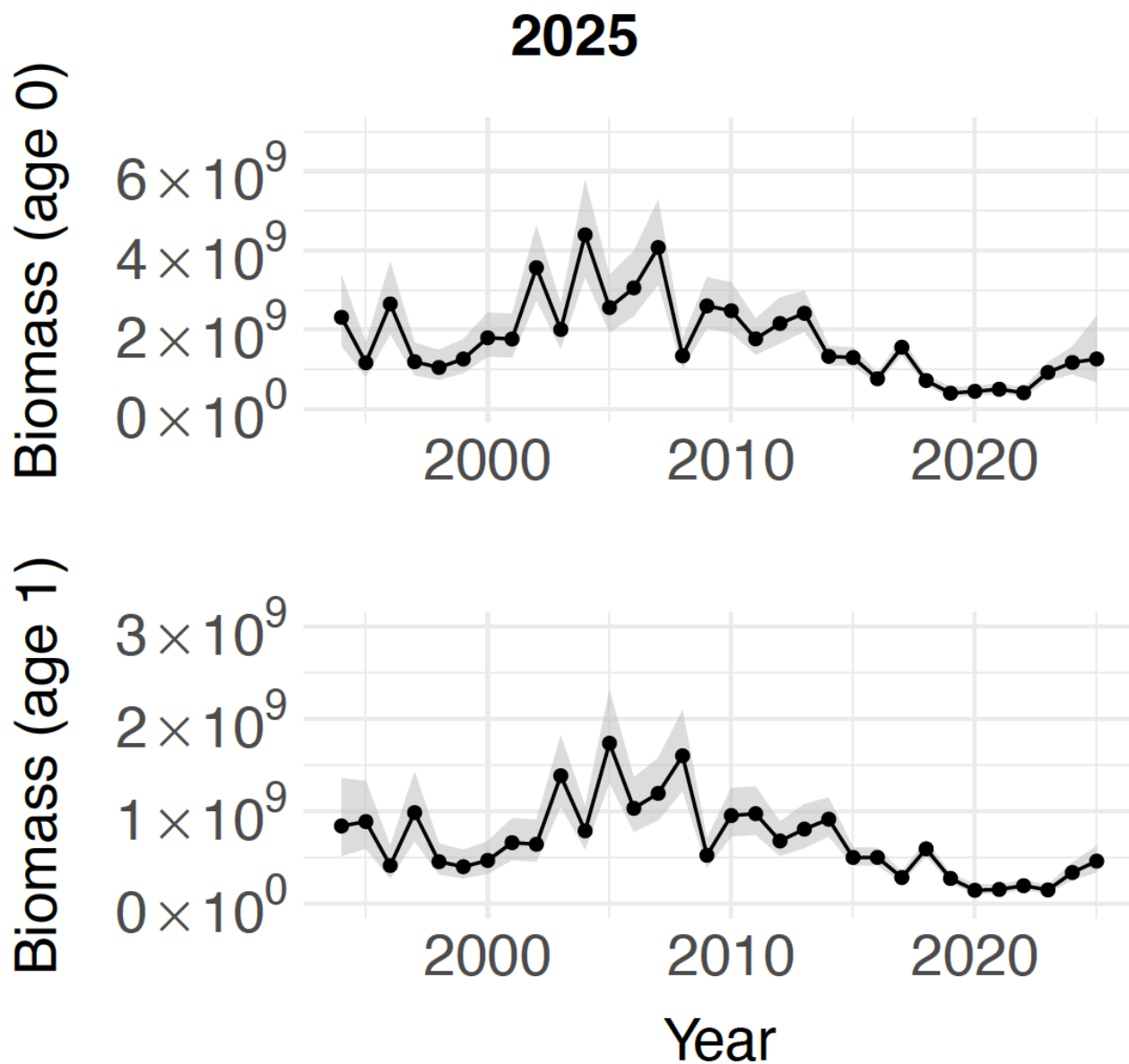
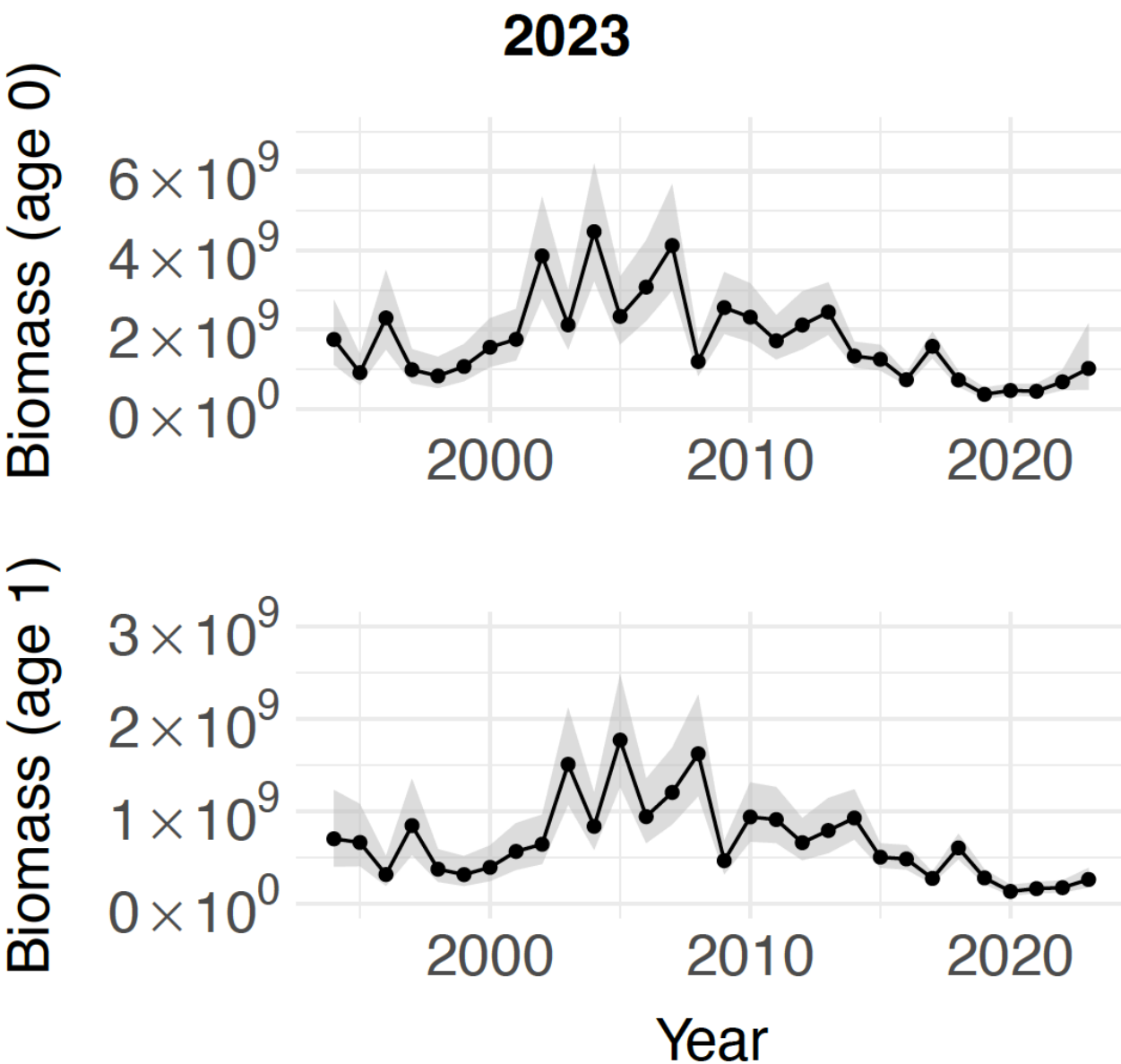
Model settings

- Age-based model (age 0 and 1)
- State-space model
- Stochastic recruitment and deterministic growth
- Beverton-Holt stock recruitment relationship
- proportion gamma of age 0 fish are counted as spawners.
- Hyper-stability/depletion for each fishery (shared among ages)
- Selectivity for each fishery
- fishery observation Var / age1 survey observation Var (constant) = 5
- survey observation SD in 2020 / survey observation SD in 2020 = 5
- $M = 2.04$ for age0; $M = 1.57$ for age1

Updates

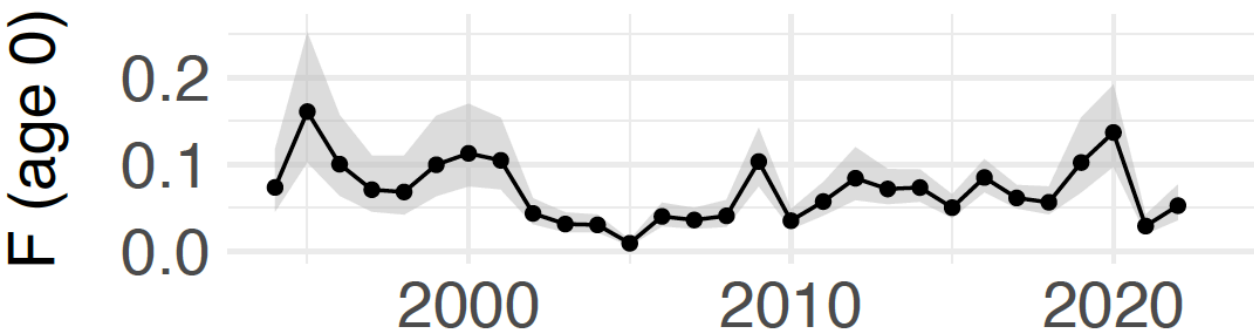
- Two years update of the data: 2023 -> 2025
- Chinese Taipei's CPUE has been split, according to the BSSPM and SS3

Biomass estimates

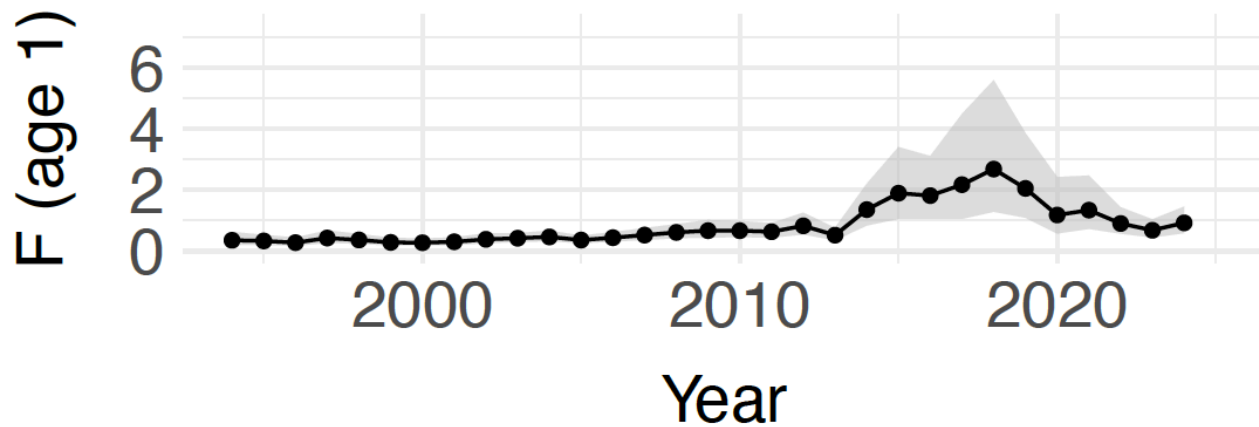
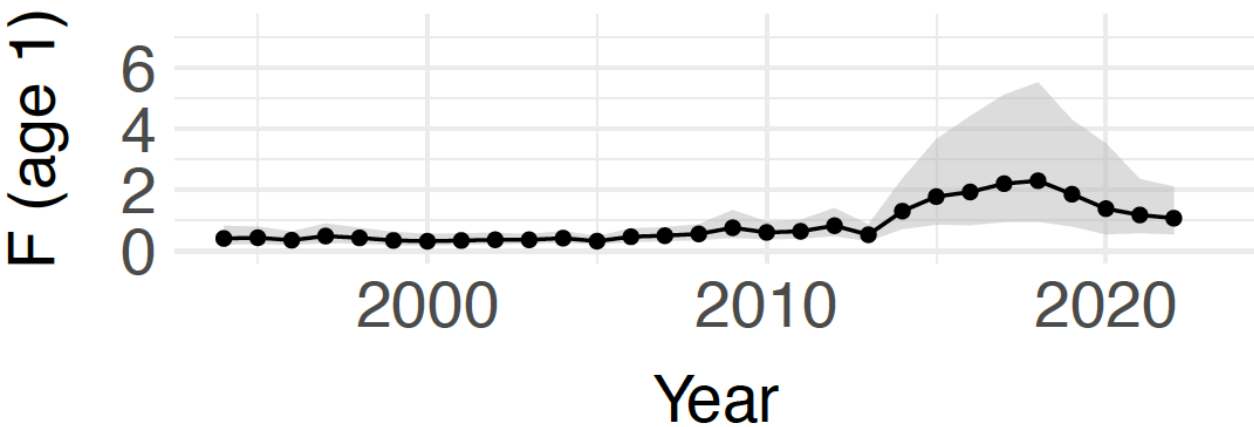
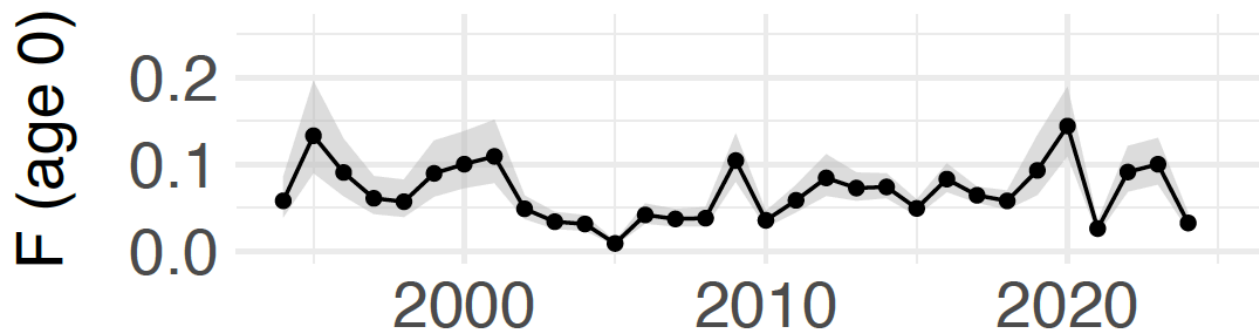


F estimates

2023

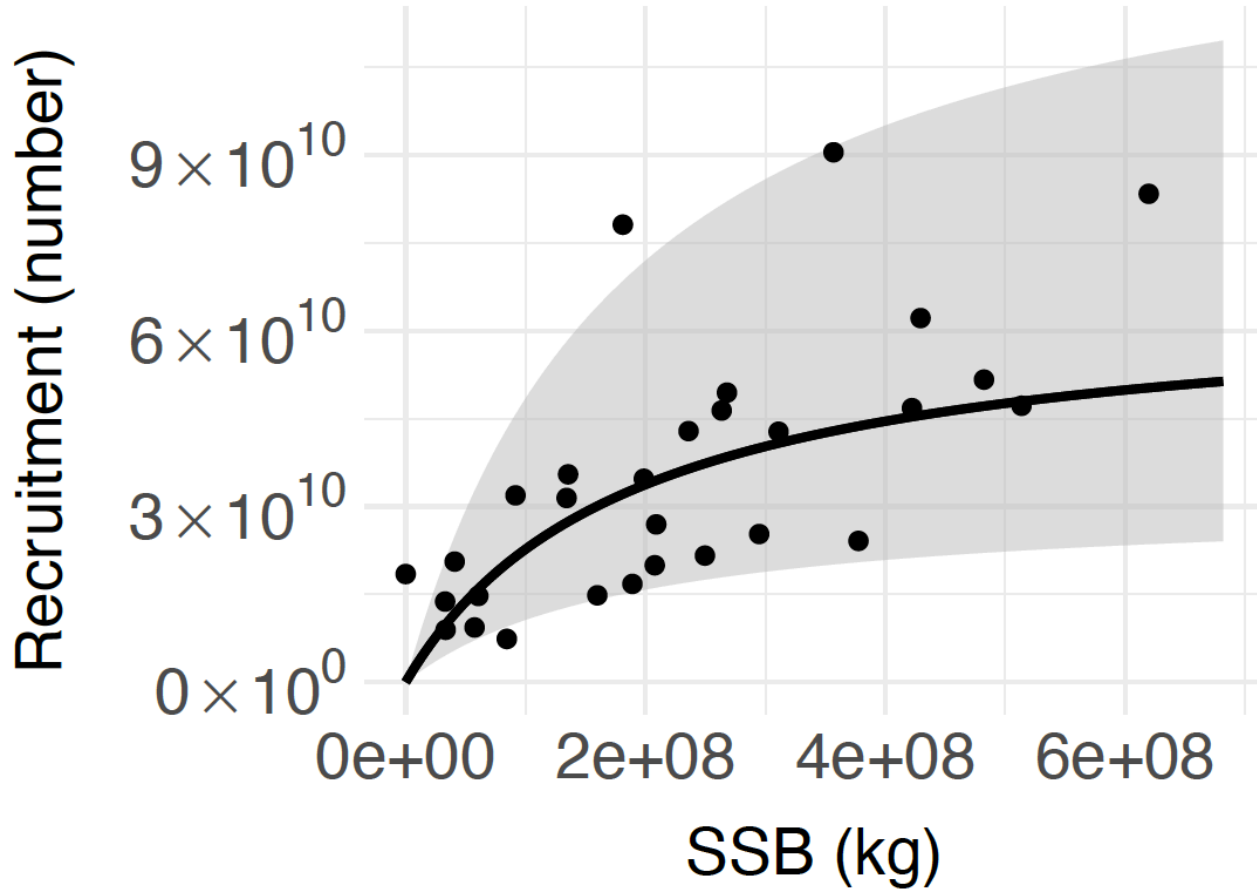


2025

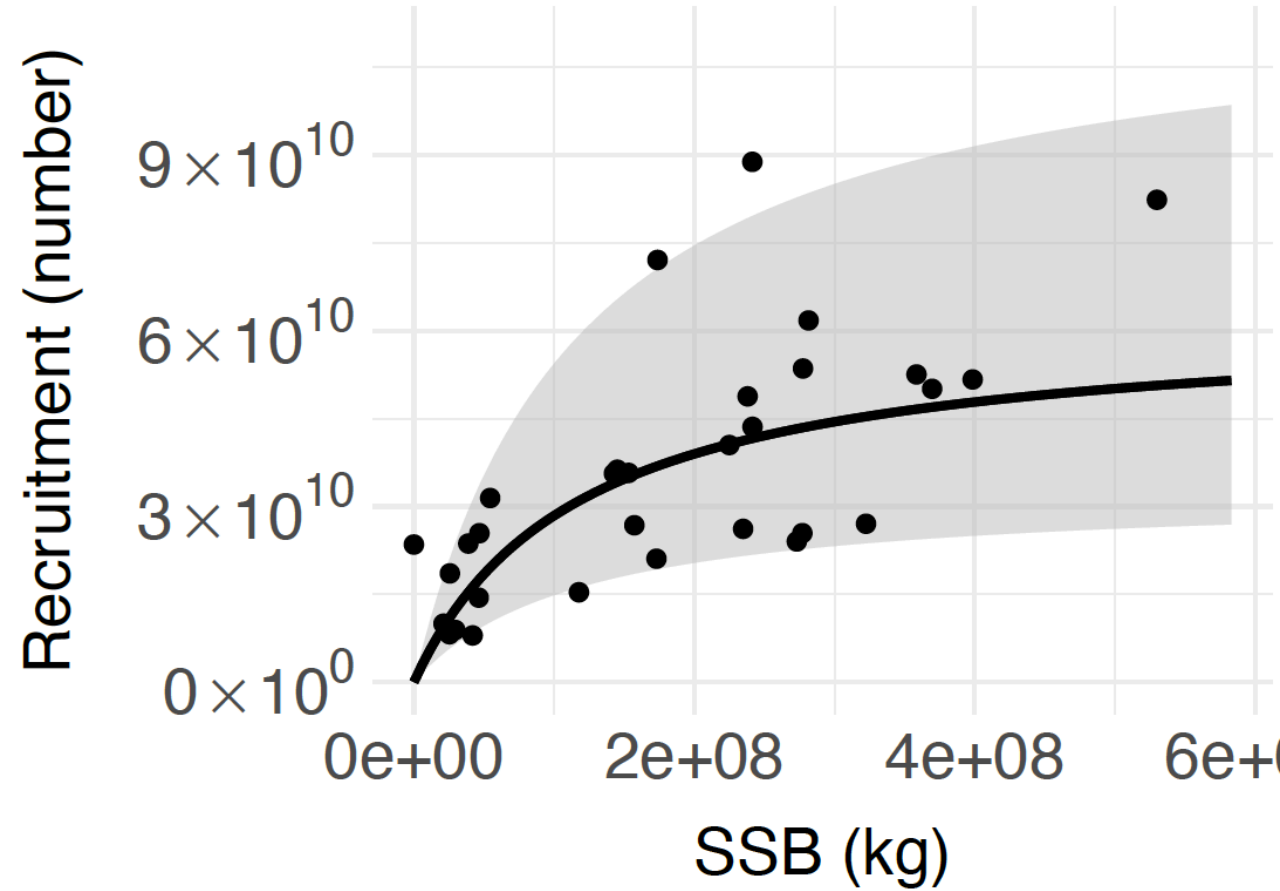


SRR estimates

2023



2025



Some parameter estimates

2023

	h	$q_{survey0}$	$q_{survey1}$	$gamma$
5%	0.27	0.062	0.36	0.0057
50%	0.47	0.089	0.47	0.125
95%	0.79	0.13	0.62	0.779

2025

	h	$q_{survey0}$	$q_{survey1}$	$gamma$
5%	0.34	0.066	0.45	0.0065
50%	0.54	0.09	0.54	0.051
95%	0.77	0.12	0.67	0.31