

UPDATES ON THE 2019 SEAPODYM REVIEW

(WCPFC PROJECT: 62)

WCPFC-SC21-2025/EB-WP-02

SPC-OFP

SCIENTIFIC COMMITTEE ADVICE

- Note that the reviewer comments provide guidance on the development of SEAPODYM and its application within WCPFC as well as general advice on the modelling frameworks used by WCPFC.
- Note that all recommendations of the 2019 have been considered and adopted as appropriate.
 - Code repository (public), reference manual, R-tools.
 - New data sources.
 - Improvement to parameter estimation.
- Future Review (if desired)
 - Lower and Mid-Trophic Level (prey estimation)
 - Environmental Forcings

SCIENTIFIC COMMITTEE ADVICE

- Development Priorities
 - Code optimisation and parallelisation
 - Inclusion of fishing and natural mortality estimation from conventional tagging data
 - Modelling weight of fish
 - Access to spawning location data (e.g. monitoring of spawning gonad or larval data)
 - Standardisation of environmental forcings preparation pipelines
 - Archival tag integration of vertical behaviour properties
 - Evaluation of the loss in predictive power when downscaling