2024 South Pacific Albacore

Thomas Teears et al. (2024): Assessment

Arni Magnusson: TAF analysis

Data

The TAF data tables are especially useful in SPC assessments, as the PDF report does not include any tables with data values.

The table dimensions would not fit on A4 pages, but the online CSV files contain:

2 areas (west, east) 69 years (1954-2022) 50 length bins (30-128 cm) 17 fisheries (longline) 3 CPUE (longline, troll)

A new sampling programme of close-kin mark-recapture (CKMR) data will focus on South Pacific albacore tuna.

Model

The MULTIFAN-CL model for tuna assessments was developed by Dave Fournier and colleagues.

The albacore model is age-structured (1-12 yr) and is fitted to CPUE series, length comps, and otoliths, estimating the growth curve.

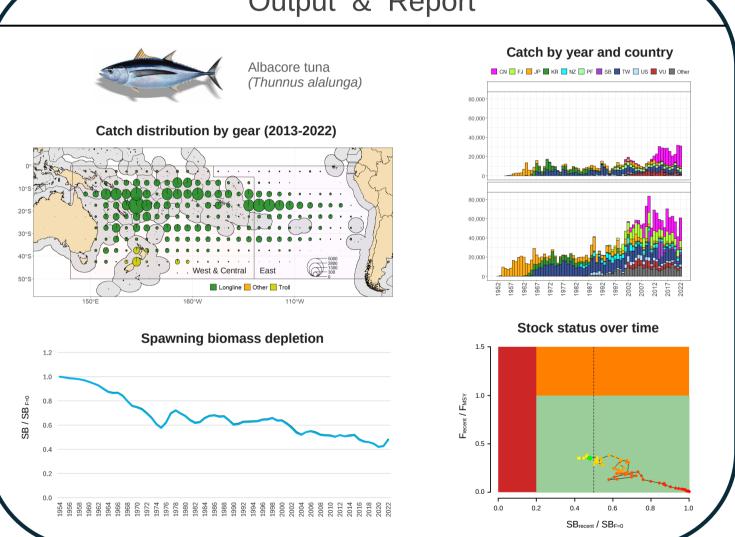
Movement rates between the two areas is estimated externally using a model called SEAPODYM.

The model takes a long time to run, but model shortcut.R allows the option to bypass the model step.

The Pacific Community (SPC) is the science provider for the sustainable management of tuna, billfish, and shark fisheries in the Western and Central Pacific Ocean. The South Pacific albacore tuna is assessed jointly by SPC and IATTC, as the distribution spans the Western, Central, and Eastern Pacific Ocean.

SPC assessments are in public TAF repositories since 2023.

Output & Report



Data sources:





https://github.com/PacificCommunity/ofp-sam-alb-2024-diagnostic



