2018 Eastern Bering Sea Pollock

James Ianelli et al. (2018): Assessment

Arni Magnusson: TAF analysis

Jan 2019 was early days for TAF, as the project was switching from the initial design & development to application. Jim Ianelli reached out and wanted to know how TAF works, so I converted this NOAA assessment to TAF format to demonstrate and discuss the benefits of TAF for stock assessors, research institutes, reviewers, scientific committees, fisheries managers, and the scientific community.

Data

55 years (1964-2018)
15 age bins (1-15 yr)
1 fishery (pelagic trawl)
1 CPUE (Japanese trawl)
2 surveys (bottom trawl, acoustic trawl)

CSV files:

catage (1991-2017)
catch (1964-2018)
cpue (1965-1976)
maturity (ages 1-15)
natmort (ages 1-15)
survey_at (1994-2018)
survey_avo (2006-2018)
wcatch (1964-2017)
wstock (1982-2018)

Model

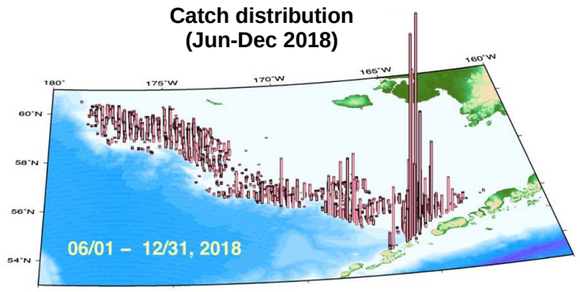
The Pollock Model (PM) was developed in AD Model Builder by Jim Ianelli.

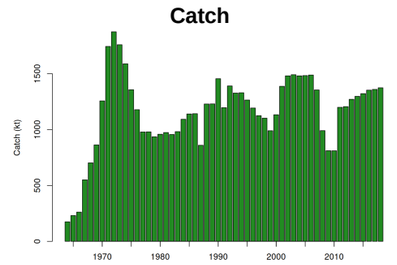
It is an age structured model with time-varying selectivity in the fishery and bottom trawl survey, where the parameters of the selectivity function follow a random walk.

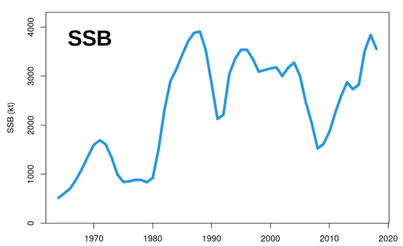
Jim is a die-hard Mac user, so here was an opportunity to test and demonstrate full cross-platform support. This was the first non-ICES TAF analysis and the first to run on Windows, Linux, and Mac.

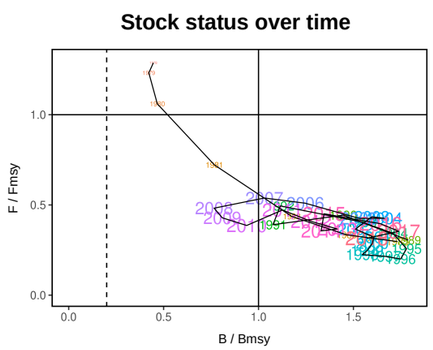
Output & Report

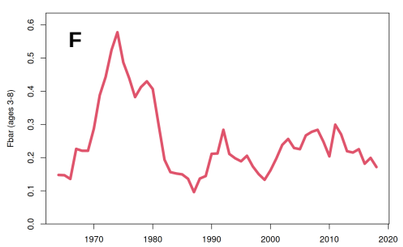
Alaska pollock
(Gadus chalcogrammus)











Data source:

https://github.com/ices-taf-dev/2018_ebs-pollock

ICES TAF-cademy Awards 2025 Nominee