EXTERNAL REVIEW OF IATTC YELLOWFIN TUNA ASSESSMENT





Panel

- Steven Martell, UBC/IPHC (Chair)
- Paul de Bruyn, ICCAT
- Billy Ernst, Universidad de Concepción
- Nick Davies, SPC

Format

- IATTC staff present
 - Assessment
 - Issues
 - Research
- Panel requests Model runs
- Staff presents results
- Iterate
- Panel writes report and recommendations

Stock-structure

- Break the assessment into Northern and Southern regions (using 5°N as a dividing line).
- Develop CPUE standardization protocol for the Northern dolphin fishery

Fisheries Structure

 Use the recommendations based on Cleridy Lennert-Cody's (Document YFT-01-02) analysis of the fishery data to partition the datasets by area.

Growth

- Short-term:
 - Use results from the integrated growth to parameterize the mean length at age and the standard deviation in length-at-age
- Long-term:
 - Incorporate the new integrated growth model into Stock Synthesis;

Stock-recruitment

 Continue to provide steepness options (h=1, h=0.75) and provide likelihood profiles over steepness.

CPUE standardization and data weighting:

- Obtain **operational parameters** for the Japanese longline fleet and use these for standardization of their CPUE series.
- Develop a CPUE standardization protocol for the Northern dolphin fishery.

Selectivity curves:

- Explore the use of age-specific coefficients for the floating-object fisheries.
- Explore the use of time-varying selectivity and aggregating the data from the floatingobject fisheries into a single fishery

Natural Mortality

- Estimate male and female natural mortality rates based on sex-specific age-composition data (outside the model).
- Examine sex ratio data from other fleets
- If growth is estimated internally, then a reexamination of length-based natural mortality and maturity is necessary within the model

Uncertainty:

- Explore structural uncertainty on a grid of all the equally plausible options for the assumptions made
- Present information to managers in a decision table framework that attempts to integrate over the structural uncertainty

Shorten the time series

Starting the model in the year 2000 should be considered