S4: Comparison of methods for assessment of small pelagic fish populations

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Announcement

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S. Gulf of St. Lawrence herring

Doug Swain
DFO
Pacific herring stocks in the northeast Pacific Ocean that are assessed with age-structured assessment models.
E. Pacific herring otolith chemistry and population structure

Wade Smith

- Environmental variation at multiple spatial scales
- Otolith composition ID spawning groups at regional and local scales
Insights into the dynamics of Atlantic and Pacific herring following population collapse

John Trochta
Univ. Washington
Production models with time-varying parameters

Menhaden application

Geneviève Nesslage
Atlantic menhaden movement
Emily Liljestrand

- Estimated migration and mortality of adult
- Atlantic menhaden with data from a largescale mark-recapture study
- Monthly time step
Pacific sand lance: assessment of benthic habitat, population structure, distribution and response to environment
Matt Baker
Sardine habitat modeling for survey planning

Juan Zwolinski

• 12 years of CUFES Surveys
  • Egg presence = adult proxy
  • Satellite based
  • Gam
Direct surveys and assessment of the Bay of Biscay anchovy and management advice

Guillermo Boyra, Andres Uriarte

- BIOMAN DEPM, PELGAS acoustics
- TAC Calendar changes to match fishery timing
- Bayesian approach accounting for uncertainty in M etc
- New recruit survey on juveniles
  - TAC schedule back to normal calendar
Using alternative samplers to analyze forage fish trends in the Gulf of Alaska

Stephani Zador

- Innovative ways to evaluate difficult to survey species...
Jack mackerel management in SPRFMO Area

Points covered
1. Big area, important fisheries
2. Complex organizational task to create a Commission
3. Science endeavor to manage the region’s fisheries
4. Jack mackerel assessment and application to advice
5. What about environmental drivers of this small pelagic resource?