

LIST of WORKING PAPERS

2014 TRAC Benchmark of the Georges Bank Yellowtail Flounder Empirical Approach

OVERVIEW

Working paper #

- 1 Legault , Chris. Overview of diagnostic problems in the current benchmark assessment formulation for Georges Bank yellowtail flounder.

MOVEMENT, DISTRIBUTION

- 2 Alade, Larry - Summary of Yellowtail Flounder Conventional Tagging Study
- 3 O'Keefe, Catherine E., Gregory R. DeCelles and Steven X. Cadrin. Spatial and temporal patterns of Georges Bank yellowtail flounder from the SMAST Bycatch Avoidance Program
- 4 Alade, Larry - Spatial Pattern of GB Yellowtail flounder from Commercial and observer Data

LIFE-HISTORY

- 5 Then, Amy Y. and Elizabeth N. Brooks. Estimates of natural mortality for flatfish in the Northwest Atlantic: A comparison of model predicted estimates.
- 6 Alade, Larry - Re-evaluation of GB yellowtail flounder Natural Mortality
- 7 Hart, Dvora. Beverton-Holt length-based mortality estimates for Yellowtail Flounder.
- 8 Legault, Chris. Estimation of Georges Bank yellowtail flounder total mortality by sex from NEFSC bottom trawl surveys.
- 9 Wood, Tony. Natural mortality of GB YT derived from an instantaneous rates tagging model.
- 10 # not assigned
- 11 Rago, Paul and C. Huntsberger. Are current incidence rates of Ichthyophonus consistent with high natural mortality.
- 12 Cadrin, Steve and Catherine E. O'Keefe. Relative Abundance at age and size of Yellowtail Flounder off New England.

CATCHABILITY

- 13 Jacobson, Larry, Chris Legault, Michael Martin, and Phil Politis. Biomass estimates for YTF based on Bigelow surveys and prior information.
- 14 Richardson, David, Rich Bell, John Manderson, and Jon Hare. Minimum bounds on GBYT Spawning Stock Biomass with a metaanalysis of catchability across northeast stock assessments.
- 15 Shank, Burton, Dvora Hart, Scott Gallager, Amber York, and Kevin Stokesbury. Abundance and spatial distribution of Yellowtail Flounder in Closed Area II South, 2010 vs. 2012, from an image-based survey.

- 16 Shank, Burton and Jon Duquette. Gear avoidance behavior of yellowtail flounder associated with the HabCam towed imaging vehicle.
- 17 Brooks, Elizabeth N. and Philip J. Politis. Evaluating age and length composition data for inference about selectivity shape.

BIOMASS

- 18 Rago,Paul, Susan Wigley and Chris Legault. Implications of retrospective patterns for bias in discard rates and unobserved landings.
- 19 Richardson, David E., Katey Marancik, and Harvey Walsh. A larval index for GB YT with comparisons of relative larval production between the YT stock areas.
- 20 DeCelles,Greg, Katherine Thompson, and Steve Cadrin. Estimates of yellowtail flounder biomass on Georges Bank derived from a seasonal dredge survey.
- 21 Adams, Chuck. Kriged estimates of YT biomass in the closed area II access area based on the George Bank pilot flatfish survey.
- 22 Rudders, Dave and Chris Legault. Yellowtail Flounder Estimates from the VIMS Scallop Dredge Survey in Closed Area II.
- 23 Martin, Michael and Christopher M. Legault. The August 2013 Flatfish Survey on Georges Bank.
- 24 Cadrin, Steven, Jessica Melgey, and Kevin D.E.Stokesbury. Abundance of Yellowtail Flounder in the Access Area of Closed Area II on Georges Bank in June 2008 from a Large-Scale Petersen Tagging Study.
- 25 Rago, Paul and Chris Legault. Application of index methods to Georges Bank Yellowtail Flounder
- 45 Stokesbury, Kevin. A new groundfish survey technique examining Georges Bank Yellowtail Flounder

REFERENCE POINTS

- 26 Cadrin, Steven X. The effect of a higher natural mortality on overfishing reference points for Georges Bank Yellowtail Flounder.
- 27 Legault, Chris and Michael Palmer. What direction should the fishing mortality target change when natural mortality increases within an assessment?

SYNTHESIS

- 46 Legault, Chris. Synthesis of information presented for Georges Bank yellowtail flounder diagnostic benchmark: putting the pieces together.

BACKGROUND ANALYSES

Literature Review

- 28 Legault, Christopher M. and Steven X. Cadrin. A guided tour through the yellowtail flounder literature for the 2014 Georges Bank yellowtail flounder diagnostic benchmark.

Movement

- 29 Winton, Megan, Katherine Thompson, Carl Huntsberger and Ronald Smolowitz. Seasonal distribution of yellowtail flounder in Georges Bank scallop access areas as inferred from the seasonal bycatch survey.

Life History

- 30 O'Brien, Loretta. Estimation of the Intrinsic Rate of Increase for Georges Bank Yellowtail Flounder.
- 31 Huntsberger, Carl and Roxanna Smolowitz. Prevalence of *Ichthyophonus* sp. in yellowtail flounder sampled during the seasonal bycatch survey on Georges Bank.
- 32 McBride, Richard S., Sandra J. Sutherland, Sarah Merry, and Larry Jacobson. Agreement of historical Yellowtail Flounder age estimates: 1963-2007.
- 33 McElroy, W.D., E.T. Towle, M.J. Wuenschel, and R.S. McBride. Spatial and annual variation in fecundity of yellowtail flounder in U.S. waters.
- 34 Traver, Michele. Comparison of distribution and prey of four flounders on Georges Bank
- 47 Rago, Paul. Bias of maximum age estimators of natural mortality

Catchability

- 35 Jacobson, Larry. Ghost Surveys in the Sky! (Empirical check on problems with Q in TRAC 2013 VPA).
- 36 Linton, Brian C. Relative catch efficiencies of Georges Bank Yellowtail Flounder and Fourspot Flounder in Scientific surveys.
- 37 Hennen, Daniel R. Catchability estimates using Habcam images as an estimate of absolute abundance.

Catch

- 38 Palmer, Michael. A summary of commercial catch investigations conducted in support of an empirical approach to the Georges Bank yellowtail flounder stock assessment.
- 39 Palmer, Michael and Susan E. Wigley. Using positional data from vessel monitoring systems (VMS) to validate the logbook-reported area fished and the stock allocation of commercial fisheries landings, 2004-2011.
- 40 Palmer, Michael. Estimating the magnitude of unreported dealer landings for the northeast large mesh groundfish species from 1996 to 2007.

Biomass

- 41 Clark, Don, and Loretta O'Brien. Summary of Yellowtail Flounder Catches in the DFO summer Scotian Shelf Survey - 4X and 4VW.
- 42 O'Brien, Loretta. Annual surplus production of Georges Bank Yellowtail Flounder estimated from 2013 VPA model results.
- 43 Sosebee, K. A. and M. Traver. An examination of the relationship between yellowtail flounder abundance and the abundance of potential predators and competitors.
- 44 Takade-Heumacher, Helen, Owen Liu, Sarah Lindley Smith, Jake Kritzer and Rod Fugita. Exploring hypotheses for reduced growth and truncated size structure of Georges Bank yellowtail flounder.

Management

- 48 Courneane, Jamie, Fiona Hogan, and Tom Nies. Georges Bank Yellowtail Flounder Management Overview