

# **JUNE 2013 TRAC**

**Eastern GB cod, EGB haddock, and  
GB yellowtail flounder**

Post – TRAC  
New Bedford , MA  
August 12, 2013

# Transboundary Resources Assessment Committee (TRAC)

- Established 1998
- Peer review transboundary resources
  - Ensure that management efforts of both US & CA based on common understanding of resource status (management independent/cooperative)
- Annual assessment review of EGB cod, EGB haddock, GB YT
- Benchmark reviews
  - periodically examine methodologies for assessment and model formulations

# Transboundary Management Guidance Committee (TMGC)

- Established in 2000
- US and CA government & industry members
- Develops guidance in the form of harvest strategies, resource sharing & management processes for US & CA management of :
  - Eastern GB cod, EGB haddock & GB YT

*<http://www2.mar.dfo-po.gc.ca/science/tmgc/TMGC-e.html>*

# Outputs

**TRAC Proceedings** - summarizes consensus results

- presentation highlights ( provided by presenters)
- rapporteur notes- document details of discussion
- consensus summary

**TRAC Reference Documents**

Working Papers → Reference Documents on TRAC website

*Questions ?*

# 2013 TRAC

- St. Andrews, NB, Jun 25-27
- Reviewed 8 working papers including the updated benchmark assessments:  
EGB cod & haddock, and GB Ytflld
- Discussion of WPs in TRAC Proceedings

Belliveau, Ray	Charlesville Fisheries Limited / MG < 65 ITQ	Industry
<b>Bowlby, Heather</b>	DFO Maritimes / Population Ecology	DFO Science
Brooks, Liz	NOAA / NFMS / NEFSC	Other
Clark, Kirsten	DFO Maritimes / Population Ecology (SABS)	Chair
Claytor, Ross	DFO Maritimes / Population Ecology	DFO Science
Cournane, Jamie	New England Fisheries Management Council (NEFMC)	Other
Couture, John	Unama'ki Institute of Natural Resources (UINR)	Aboriginal
d'Entremont, Alain	Scotia Harvest Seafoods Inc. / O'Neil Fisheries Ltd.	Industry
Docherty, Verna	DFO Maritimes / Resource Management	DFO Management
Gross, Eric	DFO Maritimes / Population Ecology (SABS)	DFO Science
Heil, Sarah	NOAA	Other
Hogan, Fiona	New England Fisheries Management Council (NEFMC)	Other
Hubleby, Brad	DFO Maritimes / Population Ecology	DFO Science
Legault, Chris	NOAA / NFMS / NEFSC	Other
Maxwell, Judith	Scotia-Fundy Inshore Fishermen's Assn. (SFIFA)	Industry
Nickerson, Tim	Scotia-Fundy Inshore Fishermen's Assn. (SFIFA)	Industry
Nies, Tom	New England Fisheries Management Council (NEFMC)	Other
O'Brien, Loretta	NOAA / NFMS / NEFSC	Chair
O'Connor, Michael	Transboundary Mgmt. Guidance Committee (TMGC)	Industry
Stone, Heath	DFO Maritimes / Population Ecology (SABS)	DFO Science
<b>Sullivan, Patrick</b>	Cornell University	Other
Van Eeckhaute, Lou	DFO Maritimes / Population Ecology (SABS)	DFO Science
Vascotto, Kris	NS Dept Fisheries and Aquaculture (NSDFA)	Provincial
Wang, Yanjun	DFO Maritimes / Population Ecology (SABS)	DFO Science

# Review of 8 Working Papers

## *Allocation Shares*

- Provides the percentage shares for FY 2014 for US & CA

## *Revised methodology for calculating effort for the Canadian Scallop Discard calculations*

- Freezer trawlers (FT) and wet fish (WF) vessels (live scallops )
- new method: using effort in hours\* gear width(meters)  
eliminates need for conversion from WF to FT
- TRAC agreed to use effort standardized by h\*m for time series to replace the effort standardized to FT hours

# Review of Working Papers

## *Stock Assessment of GB Yellowtail Fld for 2013*

- C. Legault will present results
- Accepted by TRAC

## *Assessment of eastern Georges Bank cod for 2013*

- L. O'Brien will present results
- Accepted by TRAC

## *Assessment of eastern Georges Bank haddock for 2013*

- L. Brooks will present results
- Accepted by TRAC

# Review of Working Papers

## *3 WPs alternative methods for estimating YT biomass*

- C.Legault presented each WP
- Reviewed by TRAC ;

## *Sensitivity analyses for Petersen estimate of yellowtail fld. abundance in the access area of Closed Area II on GB*

- Tagging of yt in CL II June 2008
- Estimates biomass larger than the stock area for 2008 VPA est.
- TRAC comments:
  - need at least 4% returns for accurate Peterson estimate (Robson and Regher 1964); this study had tag returns < 4%
  - residual pattern in the lognormal distribution (Fig.2); recommendation to explore other distributions

# Review of Working Papers

## *Results of the seasonal bycatch survey of the GB scallop fishery—ytfld biomass estimation*

- Surveyed abundance of scallops and YT in scallop fishery areas
- YT move seasonally to and from scallop fishing areas
- Swept area estimates from study indicate higher biomass compared to 2012 VPA YT results
- TRAC comments:
  - not sufficient information on survey design, not full details on methodology
  - No variance/ CI estimates provided for results

# Review of Working Papers

## *Abundance and spatial distribution of YT Fld in CA II South, 2010 vs. 2012, from an image-based survey*

- Compares abundance & spatial distribution of YT
- YT abundance declined 76% from '10 to '12
- Bottom water temp. notably warmer in 2012
- Abundance estimates generally agree with VPA estimates
  
- TRAC comments:
  - Warmer temps; increase mortality w/ dec. condition
  - Only 2 yrs; seasonal vs interannual pattern difficult to discern

# Further TRAC results:

*Prepared Draft ToR for 2014 TRAC*

*Drafted Protocols for submission of Working Papers  
( to be posted on TRAC website)*

# **U.S.A. / CANADA Allocation Shares**

# Allocation Shares

Resource Utilization			
	Cod	Haddock	Ytl
USA	40%	45%	98%
CANADA	60%	55%	2%

Resource Distribution				Resource Utilization and Distribution Weighting			Allocation Shares			
	Survey Year	Cod	Haddock	YtFld	Fishing Year	Utilization	Distribution	Cod	Haddock	YtFld
USA	2000	18%	20%	54%	2002	40%	60%	27%	30%	72%
CANADA		82%	80%	46%				73%	70%	28%
USA	2001	14%	16%	64%	2003	40%	60%	24%	28%	78%
CANADA		86%	84%	36%				76%	72%	22%
USA	2002	12%	26%	62%	2004	40%	60%	23%	34%	76%
CANADA		88%	74%	38%				77%	66%	24%
USA	2003	18%	27%	56%	2005	35%	65%	26%	33%	71%
CANADA		82%	73%	44%				74%	67%	29%
USA	2004	14%	29%	56%	2006	30%	70%	22%	34%	69%
CANADA		86%	71%	44%				78%	66%	31%
USA	2005	21%	29%	63%	2007	25%	75%	26%	33%	72%
CANADA		79%	71%	37%				74%	67%	28%
USA	2006	26%	32%	73%	2008	20%	80%	29%	35%	78%
CANADA		74%	68%	27%				71%	65%	22%
USA	2007	29%	36%	73%	2009	15%	85%	31%	37%	77%
CANADA		71%	64%	27%				69%	63%	23%
USA	2008	23%	40%	60%	2010	10%	90%	25%	40.50%	64%
CANADA		77%	60%	40%				75%	59.50%	36%
USA	2009	17%	43%	50%	2011	10%	90%	19%	43%	55%
CANADA		83%	57%	50%				81%	57%	45%
USA	2010	22%	43%	44%	2012	10%	90%	24%	43%	49%
CANADA		78%	57%	56%				76%	57%	51%
USA	2011	13%	37%	37%	2013	10%	90%	16%	38%	43%
CANADA		87%	63%	63%				84%	62%	57%
USA	2012	20%	38%	80%	2014	10%	90%	<b>22%</b>	<b>39%</b>	<b>82%</b>
CANADA		80%	62%	20%				78%	61%	18%

Resource Utilization			
	Cod	Haddock	YtFl
USA	40%	45%	98%
CANADA	60%	55%	2%

Resource Distribution					Resource Utilization and Distribution Weighting			Allocation Shares		
	Survey Year	Cod	Haddock	YtFl	Fishing Year	Utilization	Distribution	Cod	Haddock	YtFl
USA	2008	23%	40%	60%	2010	10%	90%	25%	40.50%	64%
CANADA		77%	60%	40%				75%	59.50%	36%
USA	2009	17%	43%	50%	2011	10%	90%	19%	43%	55%
CANADA		83%	57%	50%				81%	57%	45%
USA	2010	22%	43%	44%	2012	10%	90%	24%	43%	49%
CANADA		78%	57%	56%				76%	57%	51%
USA	2011	13%	37%	37%	2013	10%	90%	16%	38%	43%
CANADA		87%	63%	63%				84%	62%	57%
USA	2012	20%	38%	80%	2014	10%	90%	<b>22%</b>	<b>39%</b>	<b>82%</b>
CANADA		80%	62%	20%				78%	61%	18%

*Questions ?*