

Development of Framework 51 to the Multispecies FMP: Specifications for Georges Bank Yellowtail Flounder

#19

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Declining SSB

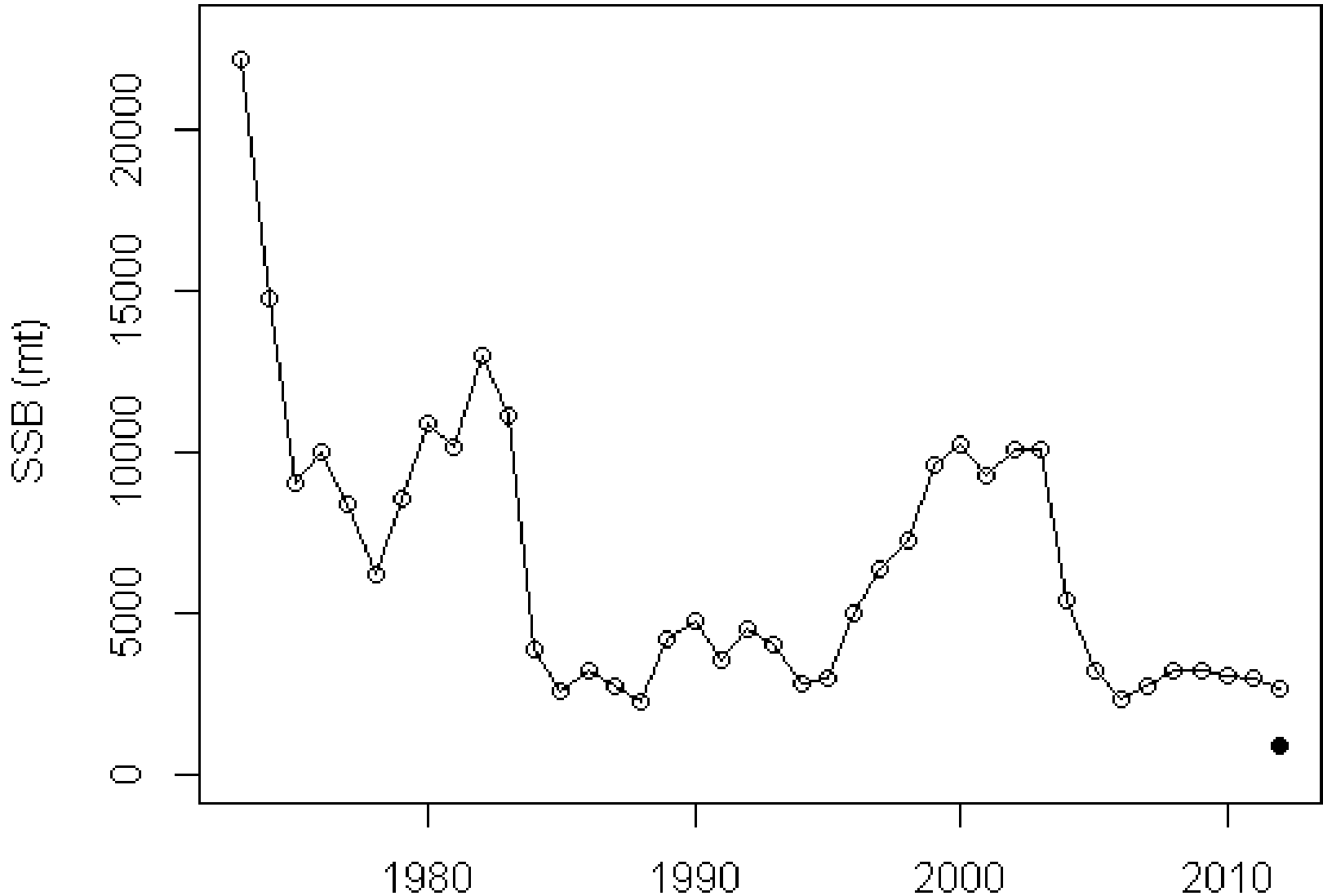


Figure 2. Spawning stock biomasses (with rho adjusted point).

$F > F_{ref} (0.25)$

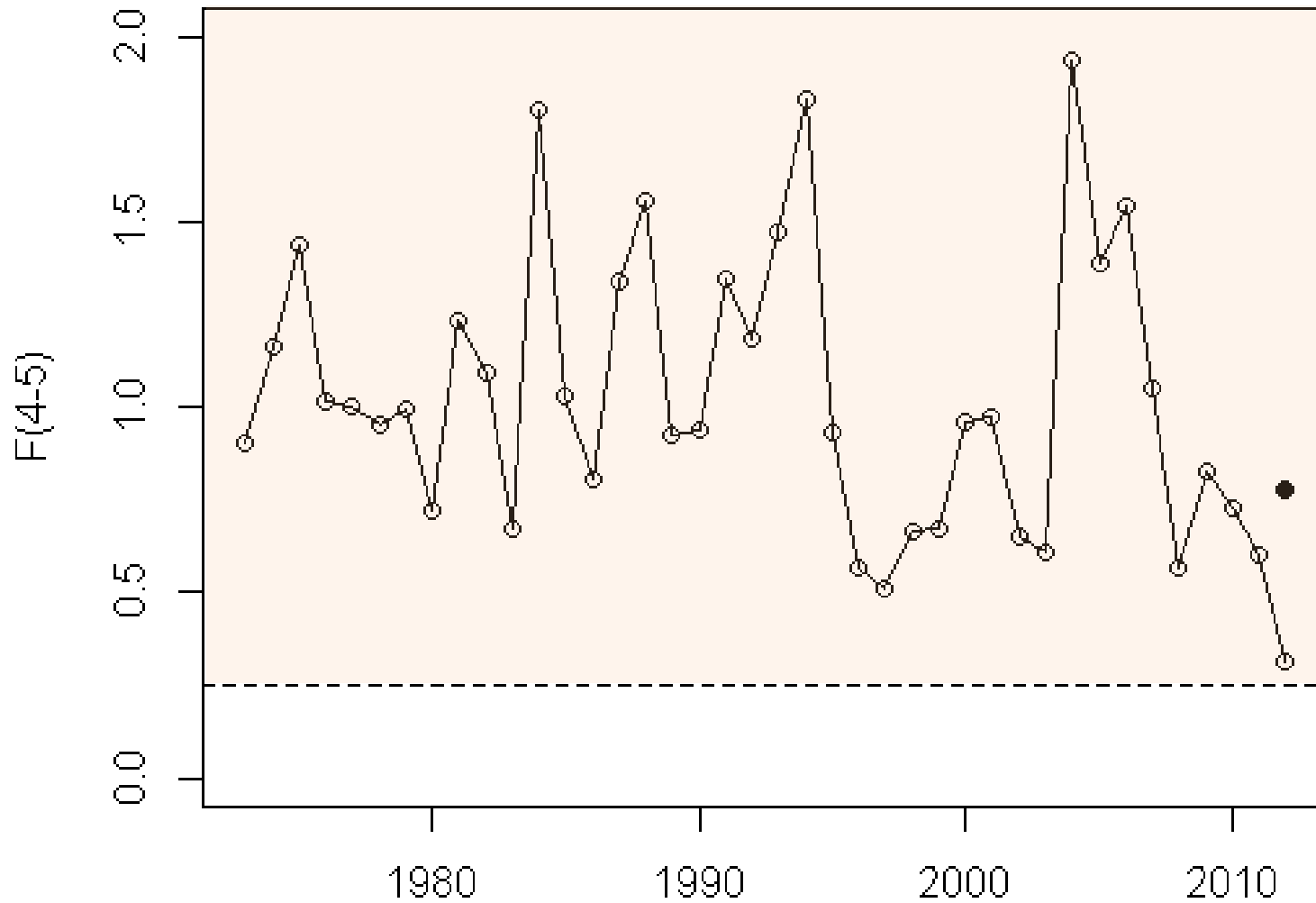
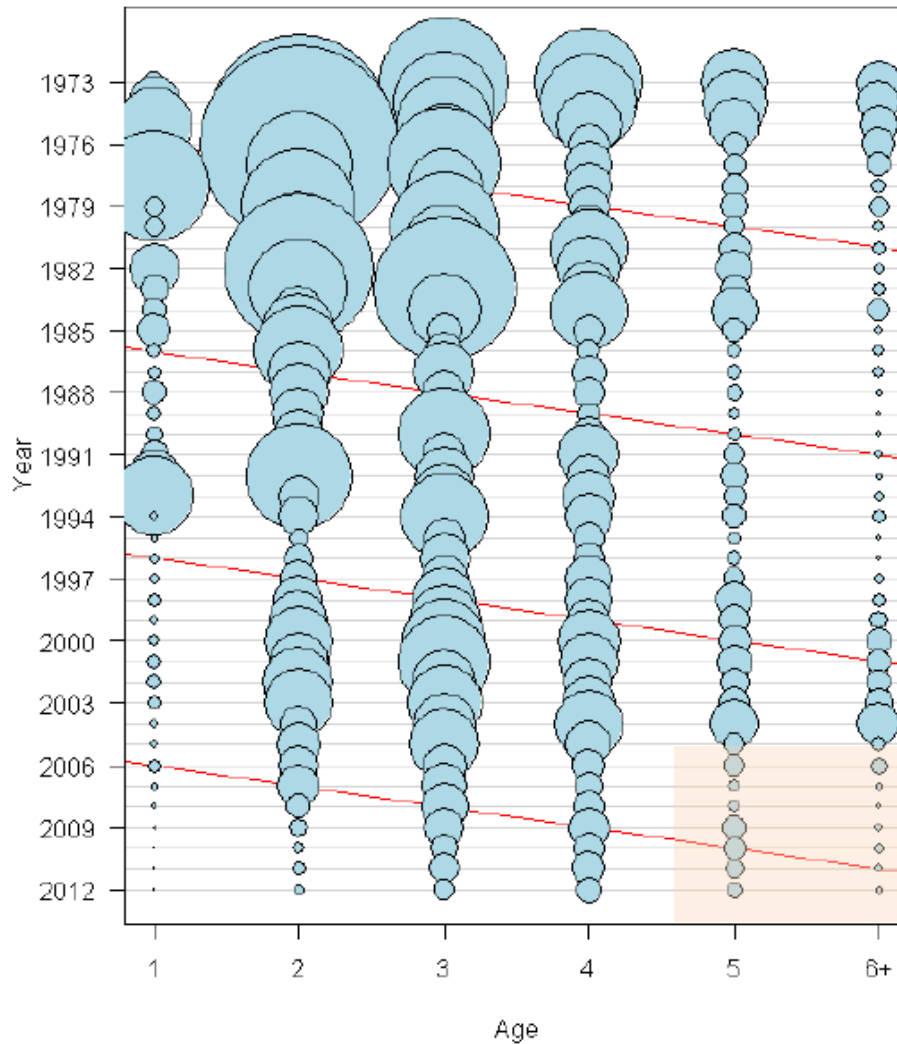


Figure 4: Fishing mortality rates (with ρ adjusted point and F_{ref} line).

Lack of Older Fish



Poor Recruitment

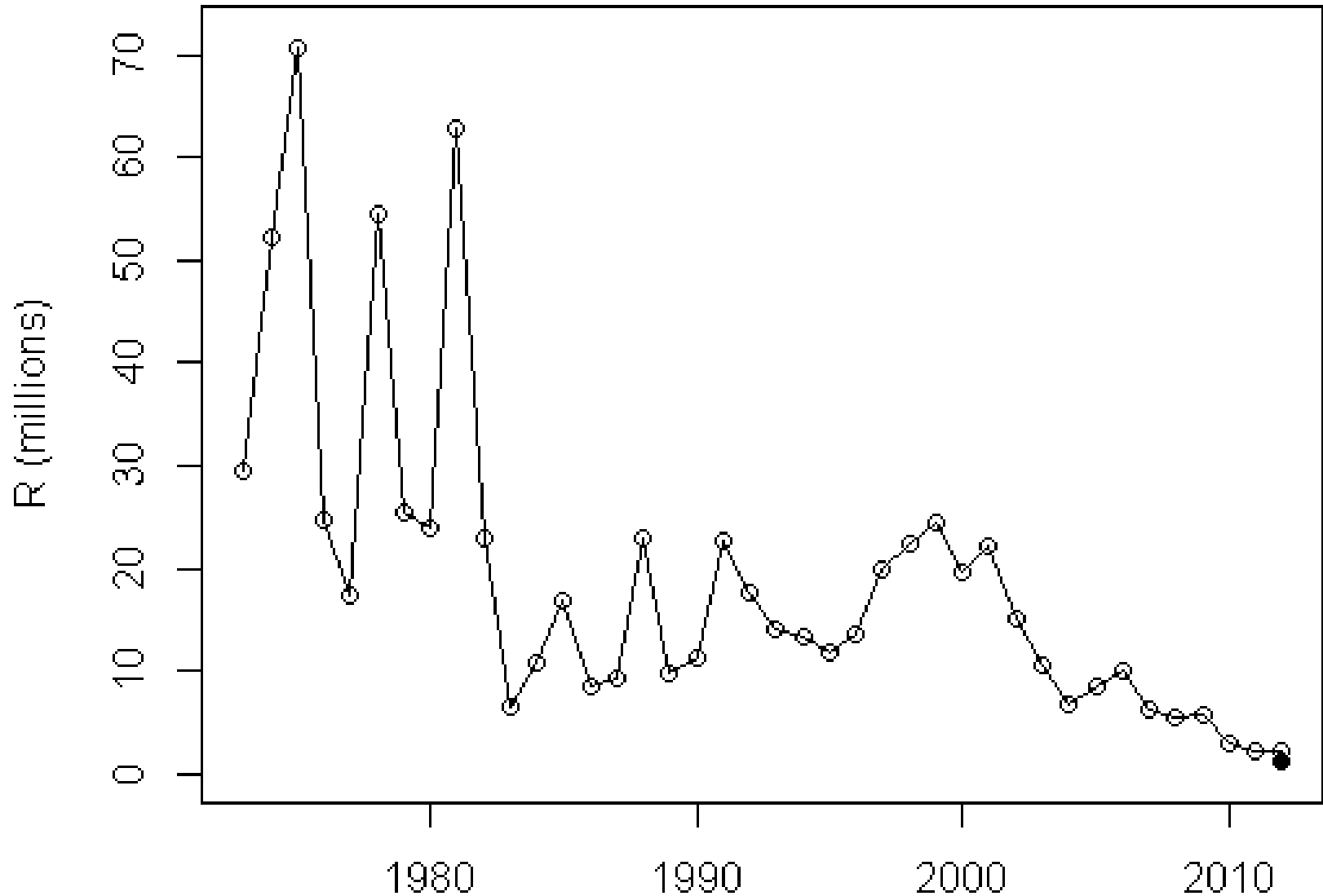
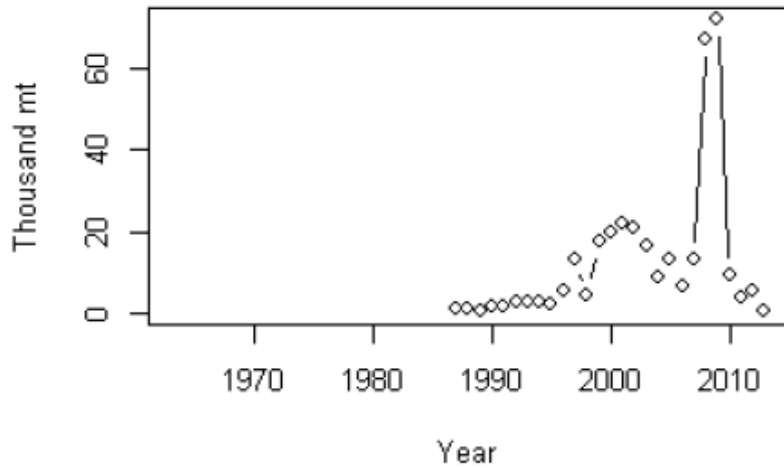


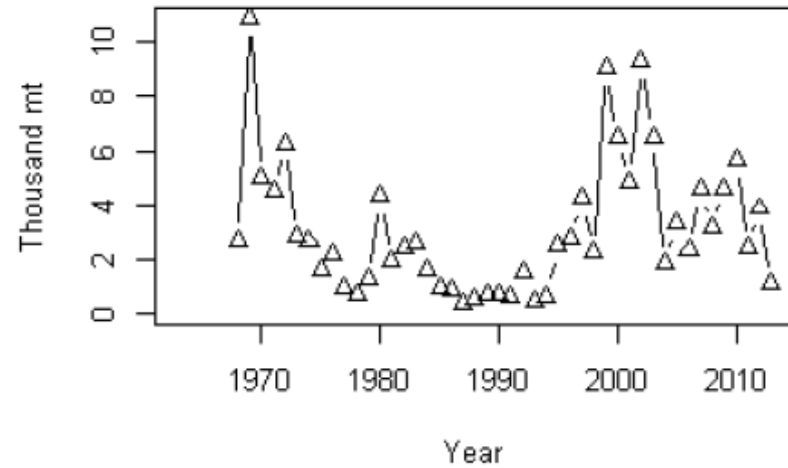
Figure 3. Recruitments (with rho adjusted point).

Declining survey trends

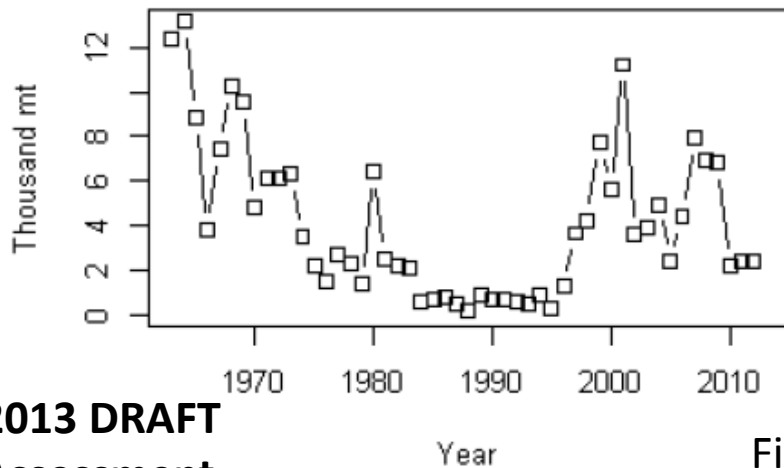
DFO



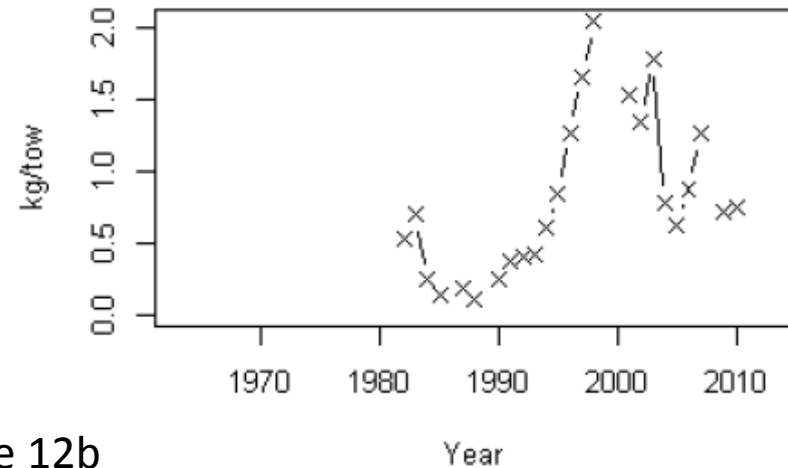
NEFSC Spring



NEFSC Fall



NEFSC Scallop



NMFS Guidance

	Split	adjSp
Fref = 0.25		
Catch	562	123
Adult Jan-1 B	2671	569
delta B	26%	56%
P(B inc)	1	1
P(B inc 10%)	0.997	1

562 mt is the catch at Fref for the split series unadjusted, likely biased high
Accounting for uncertainty total ABC = 400 mt

Biological Implications

400 mt or 425 mt

$P(F > F_{ref}) = 100\%$

No change

400 mt

$P(B \text{ inc } 10\%) = 66\%$

425 mt

$P(B \text{ inc } 10\%) \sim 50\%$

~16% change

400 mt

$P(B \text{ inc}) = 100\%$

425 mt

$P(B \text{ inc}) \sim 83\%$

~13% change

Fisheries Implications

Year	Total GB ABC	TMGC Recommendation	Canada Share	Canada TAC	U.S. Share	U.S. GB ABC
2013	500	500	0.57	285	0.43	215
2014	400	400	0.18	72	0.82	328
2014	425	425	0.18	77	0.82	349

Year	OFL	U.S. ABC	ACL Values								Total
			State Waters	Other sub-Components	Scallops	Groundfish	Comm Groundfish	Sectors	Non-Sector Groundfish	Small-Mesh	
2013	882	215		4.3	83.4	116.8	116.8	115.4	1.4	4.0	208.5
2014	unknown	328		6.6	50.9	254.5	254.5	251.5	3.1	6.1	318.1
2014	unknown	349		7.0	54.1	270.4	270.4	267.2	3.2	6.5	338.0

Fisheries Implications

Change in ACLs

Change = 2014 - 2013

400 mt

Groundfish = $254.5 - 116.8 = +137.7$ mt

Scallops = $50.9 - 83.4 = -32.5$ mt

425 mt

Groundfish = $270.4 - 116.8 = +153.6$ mt

Scallops = $54.1 - 83.4 = -29.3$ mt

Fisheries Implications

ACLs

400 mt

Groundfish 254.5 mt

Scallops 50.9 mt

425 mt

Groundfish 270.4 mt

Scallops 54.1 mt

Groundfish 15.9 mt change

Scallops 3.2 mt change