Omnibus EFH Amendment 2

Georges Bank Habitat Management
Alternatives

Michelle Bachman, NEFMC Staff, Habitat PDT Chair

Habitat Committee Meeting June 1, 2015



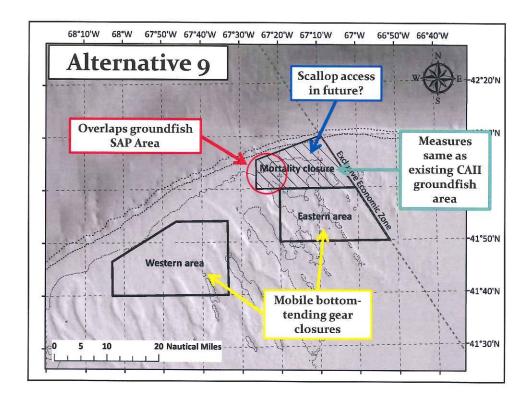
Purpose of presentation

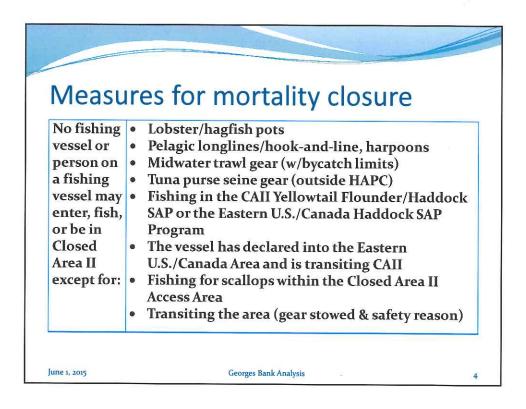
- Review updates to Georges Bank Habitat Management Area sections of OHA2 DEIS, Volume 3
 - Description of alternatives
 - Physical/biological environment
 - Large mesh groundfish
 - Human community
 - Lobster resource/fishery
 - Scallop resource/fishery analysis in separate presentation

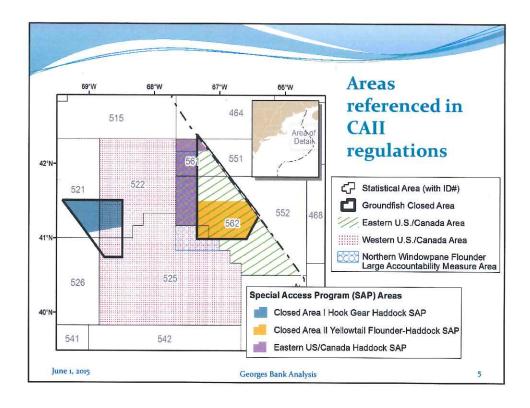
June 1, 2015

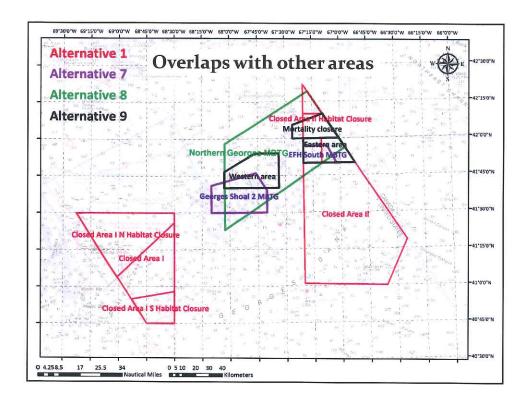
Georges Bank Analysis

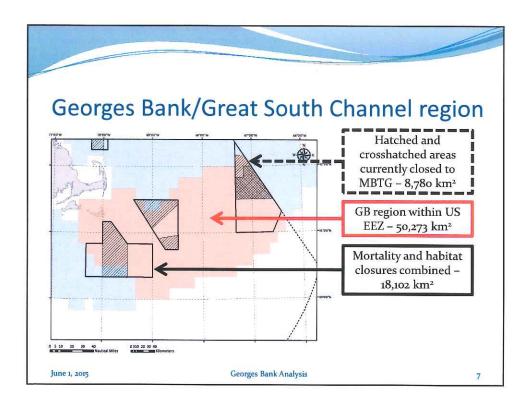
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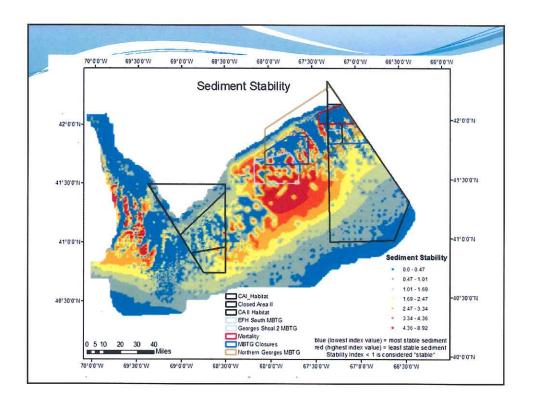


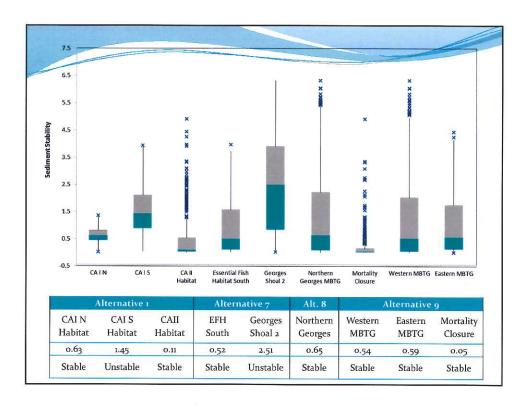


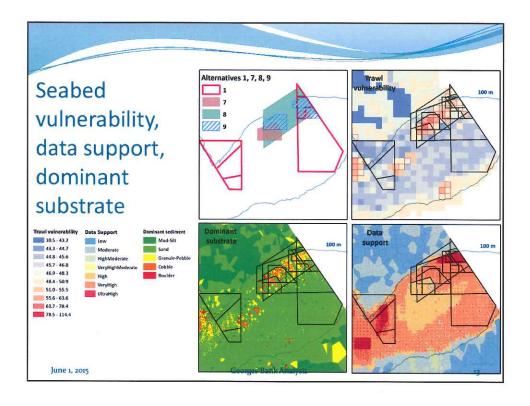
Comparison of area sizes								
Alternative 1	Alternative 7	Alternative 8	Alternative 9					
Total Area = 3,162 km² habitat closures •CAIN EFH 1,937 km² •CAIS EFH 584 km² •CAII EFH 641 km² Total area = 10,801 km² habitat and mortality combined •CAI 3,939 km²	Total Area = 1,303 km² •EFH South, 278 km² •Georges Shoal 2, 1,025 km²	Total Area = 4,788 km ² •N. Georges, 4,788 km ²	Total Area = 1,949 km² •Western, 900 km² •Eastern, 607 km² •Mortality, 442 km²					

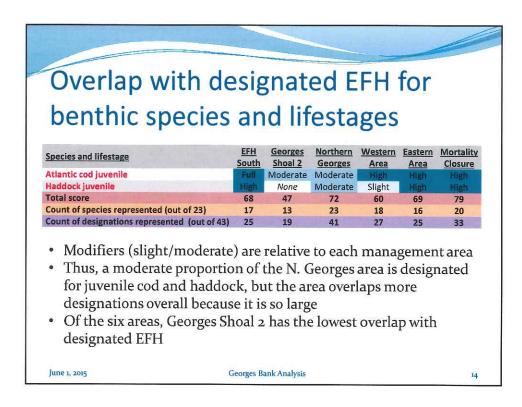
Dominant sediment type (SASI grid) Low energy High energy Area, G В M В km' No action EFH Closed Area I EFH N (607, #1) - 2% 82% 12% <1% 2,028 Closed Area I EFH S (263, #1) - <1% 92% 7% 1% Closed Area II EFH (1,175, #1) 1% 1% <1% - <1% 32% 53% 12% <1% 650 No action groundfish 1% 81% 14% Closed Area I GF (2,628, #1) 2% 2% <1% 4,063 Closed Area II GF (2,904, #1) <1% 5% 1% 1% 84% 8% Habitat management areas EFH South (195, #7) 1% 53% 38% 8% 277 Georges Shoal 2 (277, #7) - 66% 17% 16% 1,039 Northern Georges (3,229, #8) 2% 16% 1% -- <1% 43% 25% 13% <1% 4,808 Western area (429, #9) - 43% 25% 30% 1% 895 - <1% - - - <1% 58% 32% 9% 1% Eastern area (517, #9) 611 Mortality area (1,099, #9) - <1% <1% - <1% 19% 61% 19% 1% 435 - 1% 64% 8% 3% <1% 48,992 Georges Bank/GSC region 2% 21% 1% <1% (17,663, n/a) June 1, 2015 Georges Bank Analysis

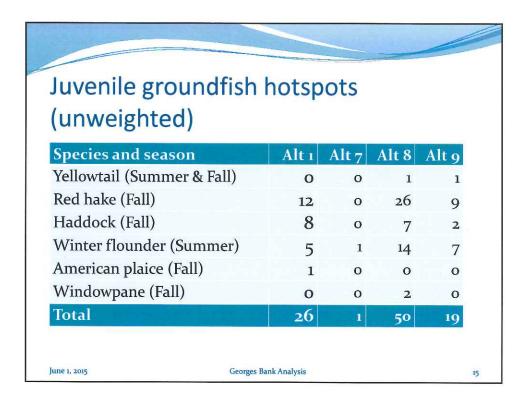
SASI data si	upp	ort	High support categories 5-7 indic sampling for all five substrate typ higher sampling resolution					
	Data support							
	Low		Moderate		High			Area,
	1	2	3	4	5	6	7	km
No action EFH								
Closed Area I EFH N (607, #1)	1	40%	7%	<1%	15%	30%	8%	2,028
Closed Area I EFH S (263, #1)	-		4%	<1%	-	87%	9%	617
Closed Area II EFH (1,175, #1)			2%	2%		38%	58%	650
No action groundfish				North Control				
Closed Area I GF (2,628, #1)		20%	5%	<1%	7%	47%	20%	4,063
Closed Area II GF (2,904, #1)	-	2%	5%	<1%	8%	78%	7%	6,826
Habitat management areas								1100
EFH South (195, #7)	-	, A =	2%	2%	-	90%	6%	277
Georges Shoal 2 (277, #7)	-	3 M2 3	21%	4%	62%	12%	<1%	1,038
Northern Georges (3,229, #8)	-	12%	6%	2%	16%	49%	16%	4,807
Western area (429, #9)		-	10%	4%	9%	74%	2%	895
Eastern area (517, #9)			1%	1%		84%	14%	611
Mortality area (1,099, #9)	-	-		1%		2%	96%	435
Georges Bank/GSC region	4%	19%	9%	1%	14%	47%	5%	48,992

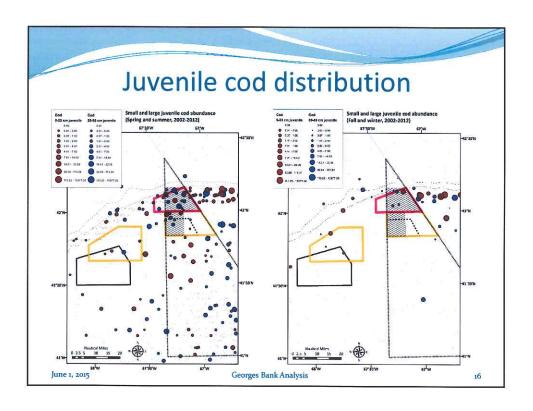


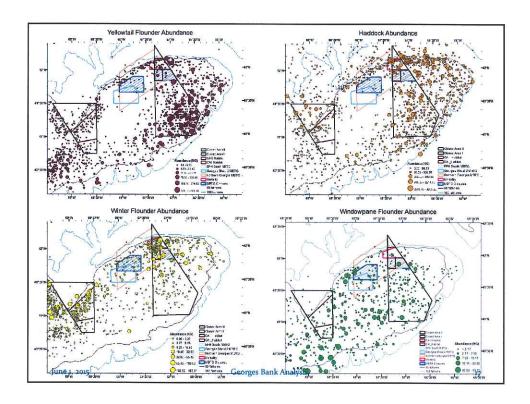


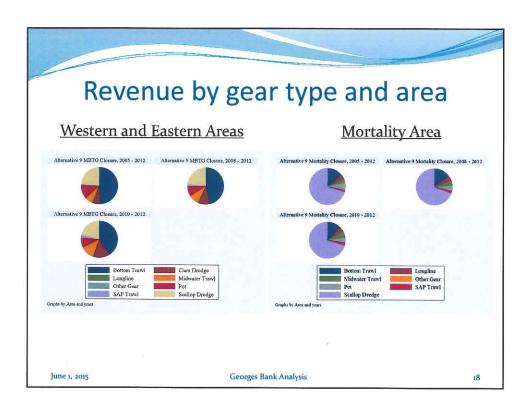












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Western	Vessel		Median					+
area	Size	Mean Rev	Rev	SD Rev	Max Rev	Min Rev	Indv	tri
Bot. trawl	L	1,606,851	1,595,582	50,322	1,661,852	1,563,119	68	880
Bot. trawl	OTHER	156,550	149,903	27,352	186,613	133,135	15	96
Clam drg.	ALL	595,306				-	2	59
SAP trawl	ALL	112,597	123,802	53,483	159,590	54,400	24	129
Scal. drg.	L	870,492	1,018,994	647,439	1,430,778	161,703	36	5
Scal. drg.	OTHER	32,243	45,770	28,044	50,959	-	5	2
Mortality	Vessel		Median	- " " " " " " " " " " " " " " " " " " "				#
area	Size	Mean Rev	Rev	SD Rev	Max Rev	Min Rev	Indv	trip
Bot. trawl	L	337,524	292,548	106,788	459,443	260,581	58	534
Bot. trawl	OTHER	20,803	21,597	10,576	30,959	9,853	12	56
SAP Trawl	ALL	72,391	70,695	45,725	118,940	27,537	20	95
Scal. drg.	L	1,884,799	978,545	2,193,115	4,385,799	290,053	36	50
Scal. drg.	OTHER	116,059	97,604	119,583	243,796	6,776	3	4

