NOAA FISHERIES

LAPP/DM
Southeast
Regional
Office

Regulatory Amendment 16
Modified Alternative 10

SAFMC Meeting
Sept 2015
Hilton Head, SC

UPDATES

- Added modified Alternative 10 (removed old Alternative 10)
- Corrected minor computational error Alternatives 7b, 7c, 8b, 9b, old 10 that incorrectly partitioned fishing by state

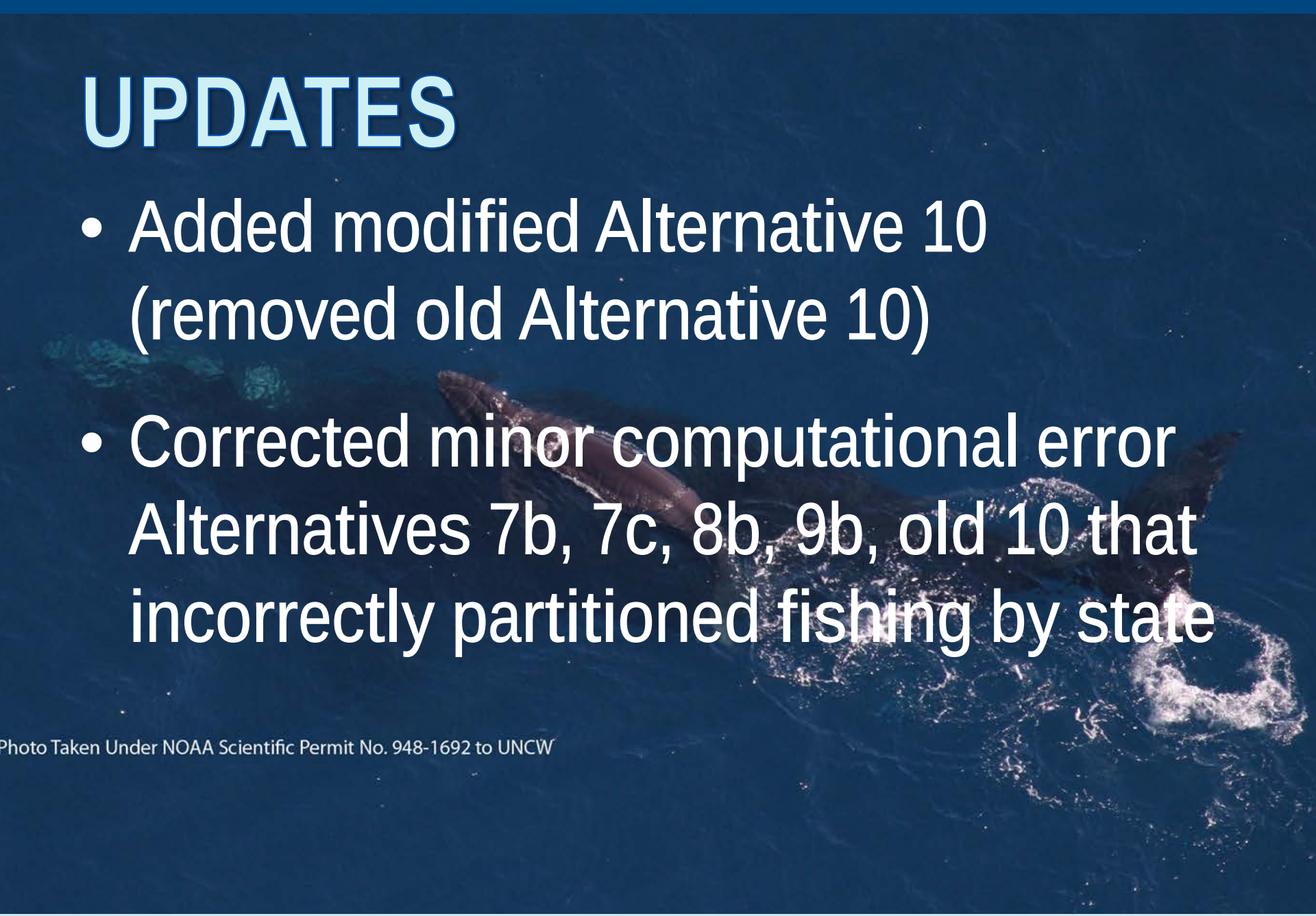


Photo Taken Under NOAA Scientific Permit No. 948-1692 to UNCW

ALTERNATIVE 10 Modification

- Alternative 10. From November 1 through December 15,the black sea bass pot closure applies to waters inshore of points 1-20 listed below (Table 2.1.8), approximately Georgia/South Carolina State Line, to Cape Hatteras, North Carolina (Figure 2.1.10).

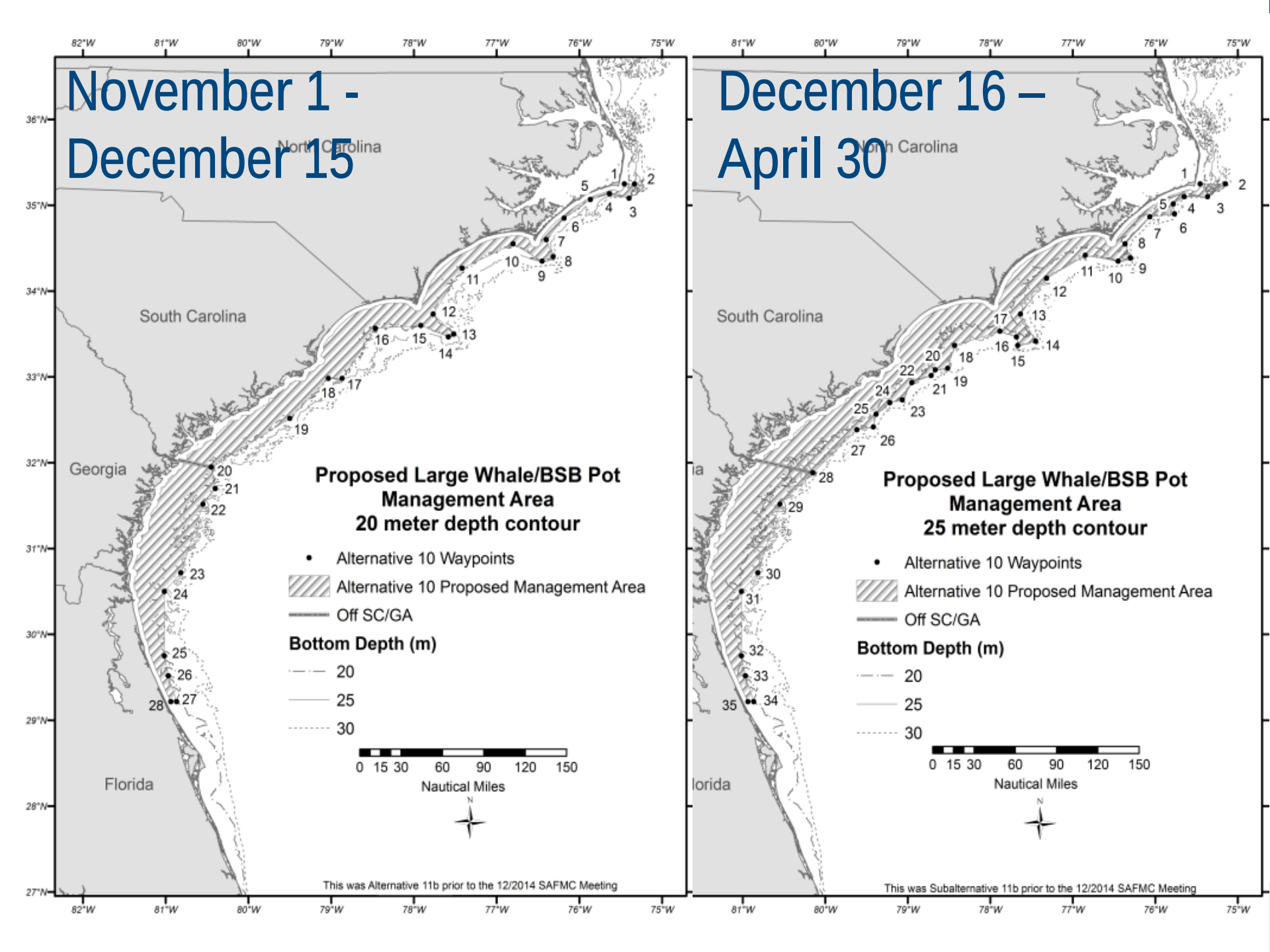
- From ~~February 15~~December 16 through April 30,the black sea bass pot closure applies to waters inshore of points 1-28 listed below (Table 2.1.9), approximately Georgia/South Carolina State Line, to Cape Hatteras, North Carolina (Figure 2.1.11).

- ~~From December 16 through February 14, there would be no closure off of the Carolinas.~~

- From November 15 through April 15, the black sea bass pot closure applies to waters inshore of points 20-28 listed below (Table 2.1.8), approximately Georgia/South Carolina State Line, to approximately Daytona Beach, Florida(Figure 2.1.10).

- Note: In Alternative 10, the boundaries off Florida and Georgia are identical to the boundaries in Alternative 5. Off North Carolina and South Carolina, the black sea bass pot closure applies in the exclusive economic zone in waters shallower than 20 meters from November 1 through December 15 and 25 meters from ~~February 15~~December 16 through April 30.

- Note: Federal regulations would only apply to that portion of the area within the South Atlantic EEZ. The states will be asked to implement consistent regulations for the portion of the area within state waters.


November 1 - December 15
North Carolina
South Carolina
Georgia
Florida
Proposed Large Whale/BSB Pot Management Area
20 meter depth contour
Alternative 10 Waypoints
Alternative 10 Proposed Management Area
Off SC/GA
Bottom Depth (m)
20
25
30
0 15 30 60 90 120 150
Nautical Miles
This was Alternative 11b prior to the 12/2014 SAFMC Meeting
December 16 – April 30
South Carolina
Proposed Large Whale/BSB Pot Management Area
25 meter depth contour
Alternative 10 Waypoints
Alternative 10 Proposed Management Area
Off SC/GA
Bottom Depth (m)
20
25
30
0 15 30 60 90 120 150
Nautical Miles
This was Subalternative 11b prior to the 12/2014 SAFMC Meeting

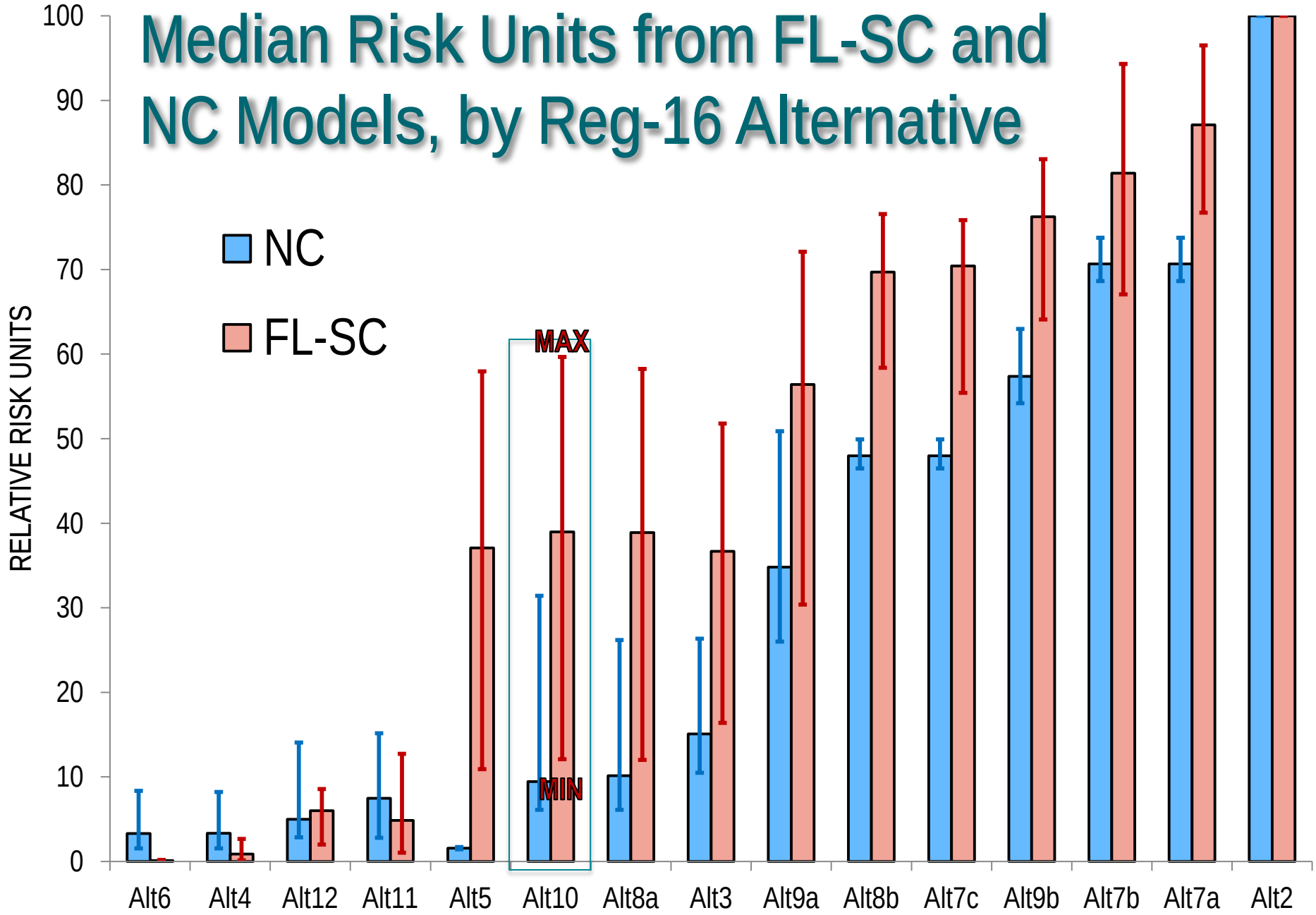
CLOSURE DATES

1	2	3	4	5	6	7a	7b
No closure	08/04-10/02	10/04-12/05	12/07-12/30	12/01-12/24	12/07-No closure	08/18-10/12	08/18-10/13

7c	8a	8b	9a	9b	10*	11	12
09/06-10/26	10/20-12/12	09/06-10/26	09/15-11/09	08/23-10/19	10/20-12/10	12/03-12/28	11/21-12/23

*New Alternative 10

Median Risk Units from FL-SC and NC Models, by Reg-16 Alternative



Compare New vs. Old Alt. 10

Closure Dates under Mean Conditions:

Old Alt. 10: 9/6 – 10/26

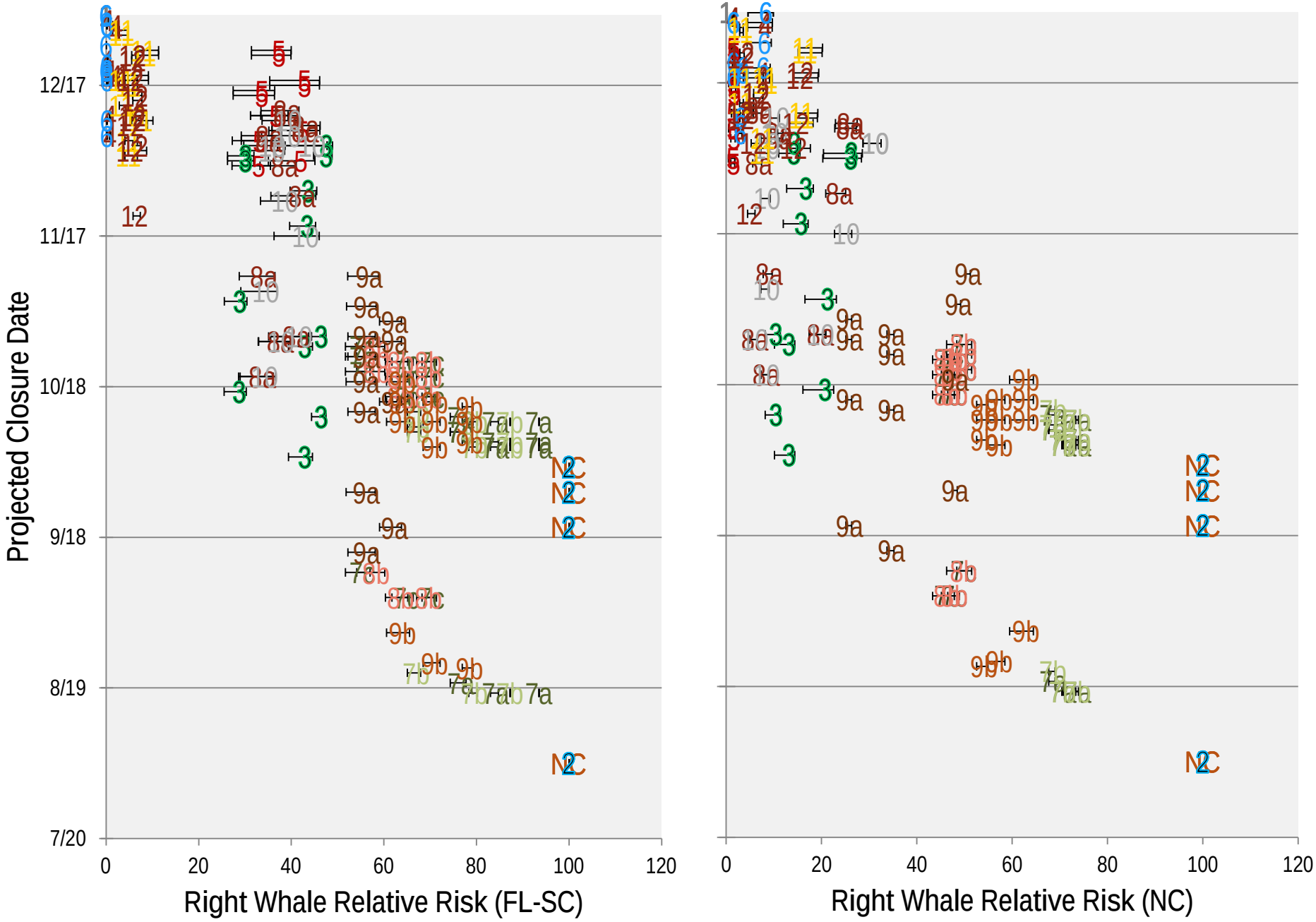
New Alt. 10: 10/20 – 12/10

Right Whale Relative Risk:

Old Alt. 10: 6 – 20 *RRU* [NC] 34 – 42 *RRU* [FL-SC]

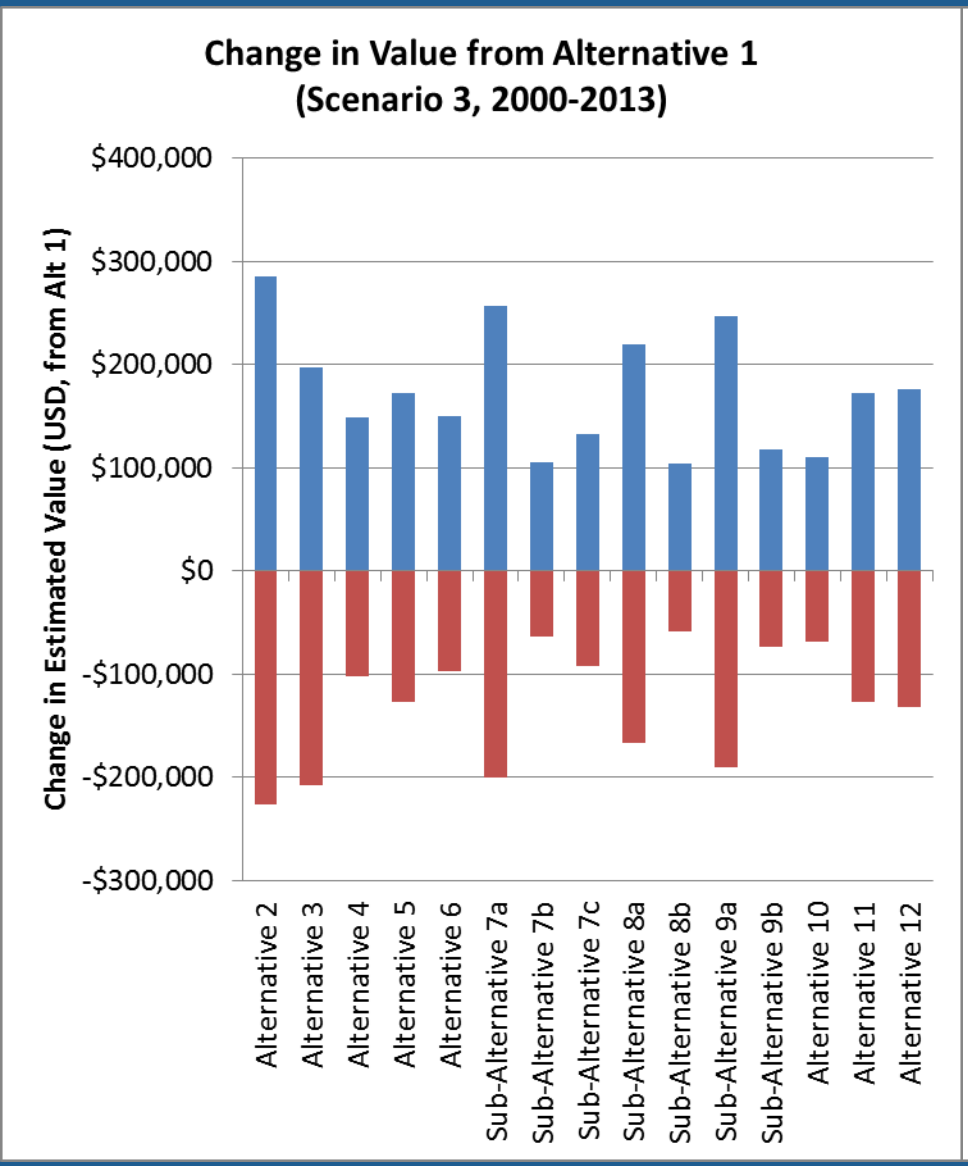
New Alt. 10: 6 – 31 *RRU* [NC] 34 – 45 *RRU* [FL-SC]

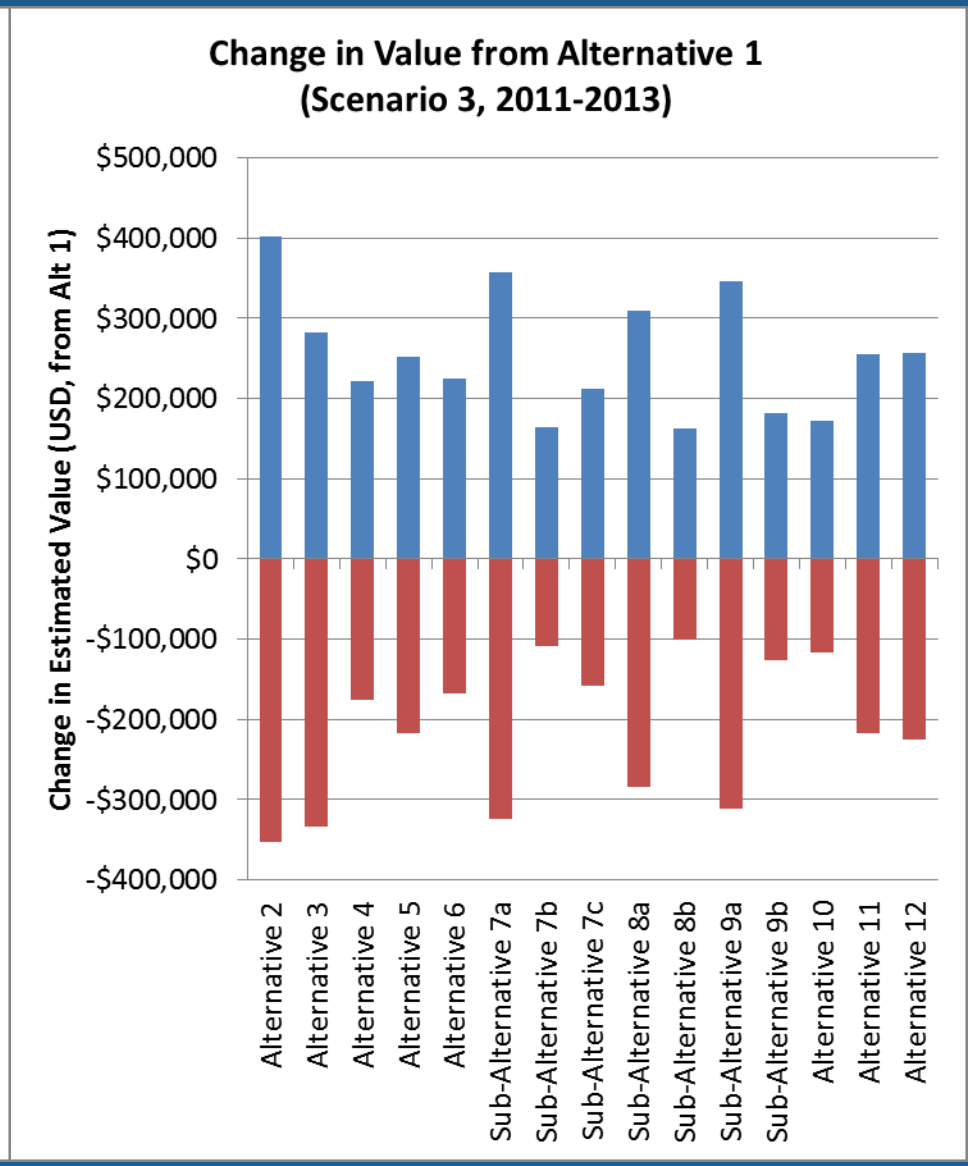
Increased coverage from New Alt. 10 offset by later closure date


Projected Closure Date
12/17
11/17
10/18
9/18
8/19
7/20
0
20
40
60
80
100
120
Right Whale Relative Risk (FL-SC)
Right Whale Relative Risk (NC)

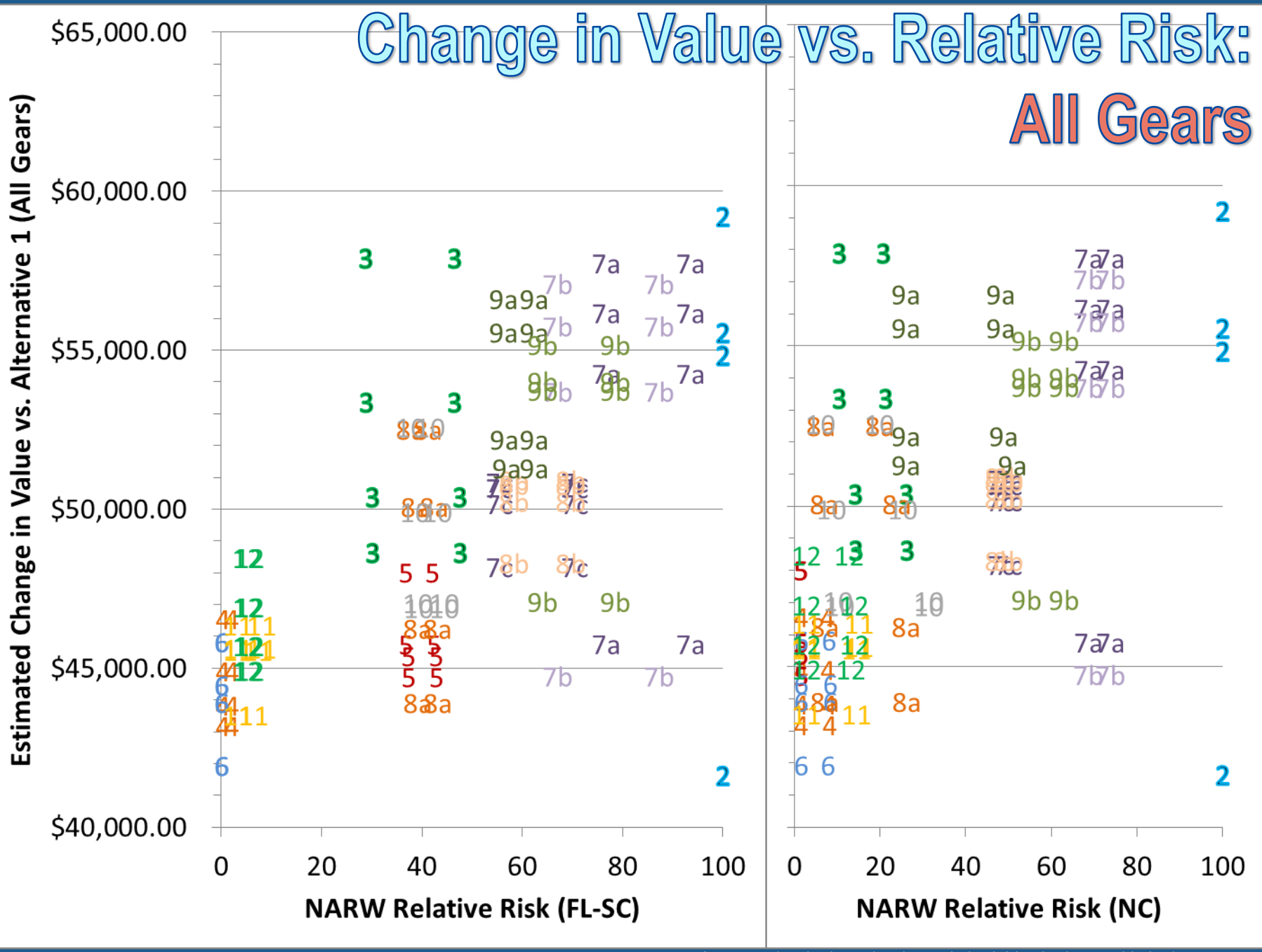
	Relative Risk of Alternative (Min-Max in Parentheses)
Low	**1**: no risk of entanglement (0)
	6: low increase in risk off NC (+2-8); no additional risk off FL-SC (0-0).
	4: low increase in risk off NC (+2-8); low increase in risk off FL-SC (0-3).
	12: low increase in risk off NC (+3-14); low increase in risk off FL-SC (2-9).
	11: low increase in risk off NC (+3-15); low increase in risk off FL-SC (1-13).
	5: low increase in risk off NC (+1-2); low to high increase in risk off FL-SC (11-58).
	10: low to moderate increase in risk off NC (+6-31); low to high increase in risk off FL-SC (12-60).
	8a: low to moderate increase in risk off NC (+6-26); low to high increase in risk off FL-SC (12-58).
	3: low to moderate increase in risk off NC (+10-26); low to high increase in risk off FL-SC (16-52).
	9a: moderate to high increase in risk off NC (+26-51); moderate to high increase in risk off FL-SC (30-72).
	8b: moderate to high increase in risk off NC (+46-50); high to very high increase in risk off FL-SC (58-77).
	7c: moderate increase in risk off NC (+46-50); moderate to high increase in risk off FL-SC (55-76).
	9b: high increase in risk off NC (+54-63); high to very high increase in risk off FL-SC (64-83).
	7b: high increase in risk off NC (+69-74); high to very high increase in risk off FL-SC (67-94).
	7a: high increase in risk off NC (+69-74); very high increase in risk off FL-SC (77-96).
High	**2**: very high increase in risk off NC (+100-100); very high increase in risk off FL-SC (100-100).
	1-25 = low, 26-50 = moderate, 51-75= high, 76-100+ = very high

Gains by Pots, Losses to Other Gears

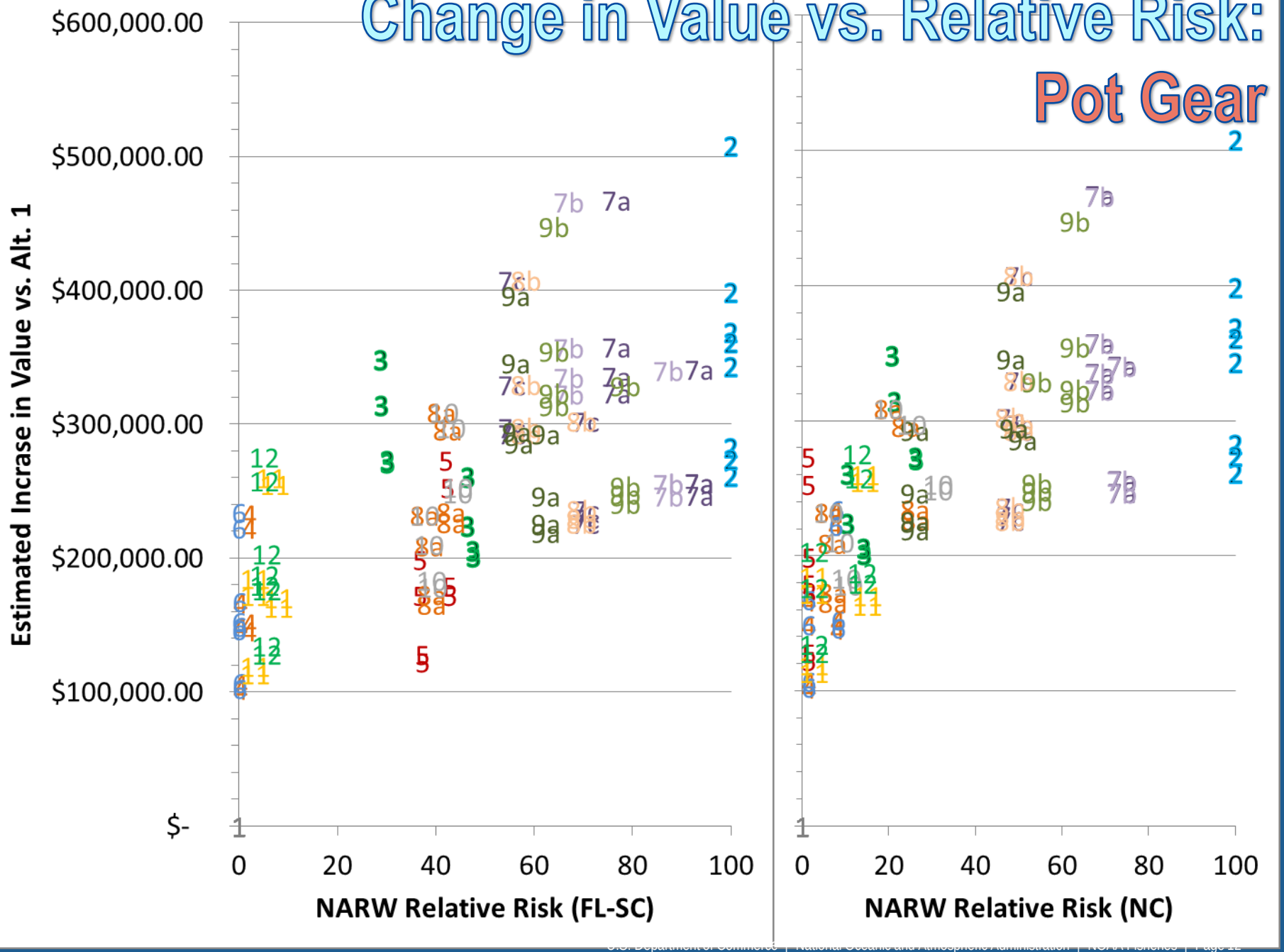




Change in Value vs. Relative Risk: All Gears



Change in Value vs. Relative Risk: Pot Gear



QUESTIONS?

oto taken by NOAA/GDNR/Wildlife Trust under NOAA Permit #594-1759

	Price/lb years	Scenario 1	Scenario 2	Scenario 3	Scenario 4
Alternative 1	2000-2013	$462,689	$462,689	$462,689	$462,689
	2011-2013	$488,456	$488,456	$488,456	$488,456
Alternative 2	2000-2013	$724,469	$831,939	$745,783	$737,062
	2011-2013	$832,095	$996,907	$887,610	$850,222
Alternative 3	2000-2013	$664,496	$723,896	$687,255	$668,844
	2011-2013	$760,533	$837,248	$803,188	$761,967
Alternative 4	2000-2013	$565,101	$629,624	$611,748	$569,339
	2011-2013	$634,498	$721,730	$711,203	$640,319
Alternative 5	2000-2013	$585,520	$662,012	$635,352	$591,058
	2011-2013	$660,970	$761,957	$741,575	$668,001
Alternative 6	2000-2013	$565,739	$630,539	$612,009	$570,068
	2011-2013	$635,344	$722,853	$711,270	$641,314
Sub-Alternative 7a	2000-2013	$710,039	$804,150	$719,244	$719,351
	2011-2013	$812,133	$956,191	$846,533	$824,560
Sub-Alternative 7b	2000-2013	$709,475	$803,136	$718,827	$718,698
	2011-2013	$811,393	$954,861	$845,993	$823,700
Sub-Alternative 7c	2000-2013	$689,105	$765,302	$699,146	$692,806
	2011-2013	$781,711	$896,229	$818,255	$786,332
Sub-Alternative 8a	2000-2013	$628,628	$695,146	$672,231	$635,843
	2011-2013	$715,341	$797,732	$784,537	$723,297
Sub-Alternative 8b	2000-2013	$689,172	$765,422	$699,253	$692,874
	2011-2013	$781,793	$896,375	$818,385	$786,414
Sub-Alternative 9a	2000-2013	$682,253	$755,850	$709,469	$688,993
	2011-2013	$774,717	$884,926	$834,595	$783,398
Sub-Alternative 9b	2000-2013	$703,954	$791,798	$716,802	$710,946
	2011-2013	$802,711	$936,438	$843,331	$811,997
Alternative 10	2000-2013	$641,370	$695,212	$673,181	$646,409
	2011-2013	$737,585	$797,820	$786,149	$741,773
Alternative 11	2000-2013	$576,653	$647,757	$635,145	$582,260
	2011-2013	$652,062	$748,810	$743,778	$659,166
Alternative 12	2000-2013	$591,376	$666,177	$639,396	$597,474
	2011-2013	$668,430	$764,288	$746,439	$676,231

Table S.6. Expected dockside value of commercial black sea bass using pot gear only under the alternatives of Action 1 using two price per pound estimates, the four different catch rate scenarios (Appendix N), and estimations of spatial locations of gear based on the 2006/2007 through 2008/2009 fishing seasons (Scenario C; Appendix N).

	Price/lb years	Scenario 1	Scenario 2	Scenario 3	Scenario 4
Alternative 1	2000-2013	$866,496	$866,496	$866,496	$866,496
	2011-2013	$1,110,579	$1,110,579	$1,110,579	$1,110,579
Alternative 2	2000-2013	$660,295	$538,900	$638,267	$651,356
	2011-2013	$780,282	$643,937	$755,643	$770,207
Alternative 3	2000-2013	$713,354	$663,214	$695,325	$710,758
	2011-2013	$849,048	$783,787	$822,353	$844,518
Alternative 4	2000-2013	$807,933	$744,490	$764,011	$803,053
	2011-2013	$1,010,593	$902,276	$935,604	$1,002,261
Alternative 5	2000-2013	$788,412	$715,209	$739,610	$783,532
	2011-2013	$977,265	$852,283	$893,944	$968,933
Alternative 6	2000-2013	$807,933	$744,490	$759,131	$803,053
	2011-2013	$1,010,593	$902,276	$927,272	$1,002,261
Sub-Alternative 7a	2000-2013	$673,431	$570,819	$666,134	$667,593
	2011-2013	$796,058	$680,026	$787,293	$789,046
Sub-Alternative 7b	2000-2013	$673,431	$570,819	$666,134	$667,593
	2011-2013	$796,058	$680,026	$787,293	$789,046
Sub-Alternative 7c	2000-2013	$690,946	$612,088	$680,729	$686,568
	2011-2013	$817,094	$726,517	$804,823	$811,835
Sub-Alternative 8a	2000-2013	$744,490	$686,568	$707,050	$739,610
	2011-2013	$902,276	$811,835	$838,047	$893,944
Sub-Alternative 8b	2000-2013	$690,946	$612,088	$680,729	$686,568
	2011-2013	$817,094	$726,517	$804,823	$811,835
Sub-Alternative 9a	2000-2013	$698,244	$628,917	$676,351	$692,406
	2011-2013	$825,859	$745,241	$799,564	$818,847
Sub-Alternative 9b	2000-2013	$679,270	$584,499	$666,134	$673,431
	2011-2013	$803,070	$695,492	$787,293	$796,058
Alternative 10	2000-2013	$734,730	$686,568	$705,937	$729,849
	2011-2013	$885,612	$811,835	$836,106	$877,279
Alternative 11	2000-2013	$798,173	$724,969	$739,610	$793,293
	2011-2013	$993,929	$868,947	$893,944	$985,597
Alternative 12	2000-2013	$783,532	$711,500	$734,730	$778,652
	2011-2013	$968,933	$845,812	$885,612	$960,601

Table S-7. Expected dockside value of commercial black sea bass using non-pot gear under the alternatives of Action 1 using two price per pound estimates, the four different catch rate scenarios (Appendix N), and estimations of spatial locations of gear based on the 2006/2007 through 2008/2009 fishing seasons (Scenario C; Appendix N).