



2012 SBRM Alternatives for Analysis

Presentation To:

*New England Fishery Management Council
September 27, 2012*

*Mid-Atlantic Fishery Management Council
October 17, 2012*

SBRM FMAT

Membership:

Doug Potts – NERO SFD
Gene Martin – NERO GC
Kimberly Murray – NEFSC
Susan Wigley – NEFSC
Amy Van Atten – NEFSC
Sara Weeks – NEFSC
Richard Seagraves – MAFMC
Tom Nies – NEFMC
Katie Drew – ASMFC
Toni Kerns – ASMFC

Other Participants:

Paul Rago – NEFSC
Jessica Blaylock – NEFSC
Ellen Keane – NERO PRD
Katie Richardson – NERO NEPA

SBRM Overview

- MSA requires all FMPs contain a standardized methodology to assess the amount and type of bycatch in the fishery
- In 2007, NE and MA Councils approved the Omnibus SBRM Amendment to all FMPs
- A legal challenge was filed
- District Court found in favor of NMFS
- Appeals Court vacated the amendment, and remanded to NMFS

2007 SBRM Omnibus Amendment

SBRM Element	Alternatives Under Consideration			
1. Bycatch Reporting and Monitoring Mechanisms	Status quo		Implement electronic video monitoring	
2. Analytical Techniques and Allocation of Observers	Status quo	Integrated allocation approach	Integrated allocation approach w/ importance filter	Minimum percent observer coverage
3. SBRM Performance Standard	Status quo		Establish a CV standard	
4. SBRM Review/ Reporting Process	Status quo	Specify an SBRM review process		Require periodic discard reports
5. Framework Adjustment Provisions	Status quo	Framework adjustment	Frameworks and annual adjustments	
6. Prioritization Process	Status quo		Council consultation	
7. Industry-Funded Observer Programs	Status quo	Observer provider approval	Framework provisions	

Shaded cells indicate the approved and implemented alternatives of the MA and NE Councils

SBRM Element 6 Prioritization Process

2 Parts

- Trigger (Element 6a)
 - How we determine the available funds
- Resulting Sea Day Adjustments (Element 6b)
 - What we do if the trigger condition is met

SBRM Element 6a

Prioritization Process - Trigger

6.1 Status quo (2007 SBRM Amendment)

- Uses combination of available sources of funding within established funding restrictions, limitations, and expectations

6.2 Identify specific SBRM funding sources

- Funds provided under the Congressional appropriation to Northeast Fisheries Observer Program, plus a percentage of funding from other appropriations consistent with the amount historically used for SBRM coverage.
- Amendment document to include a specific non-discretionary funding formula

SBRM Element 6b

Prioritization Process – Sea day adjustments

6.3 Status quo (2007 SBRM Amendment)

6.4 Proportional adjustment approach

6.5 Penultimate cell approach

6.3 Status quo

Within the Agency-funded fleets

- 1) Identify fleets that correspond to funding restrictions, limitations, and expectations
- 2) Adjustments of days to cover unfunded fleets
- 3) A blend of ad-hoc methods including sea day allocations proportional to last year's effort used to meet funding source, Agency, and Council needs.

6.4 Proportional Approach

Within the Agency-funded fleets

- 1) Derive proportion shortfall:
= (Total Sea Days Funded) / (Total Sea Days Needed)
- 2) For each fleet, calculate prioritized sea days:
= Sea Days Needed * Proportion Shortfall
- 3) Fleets with too few sea days to give meaningful discard information would get minimum coverage of 3 trips per quarter.

6.5 Penultimate Approach

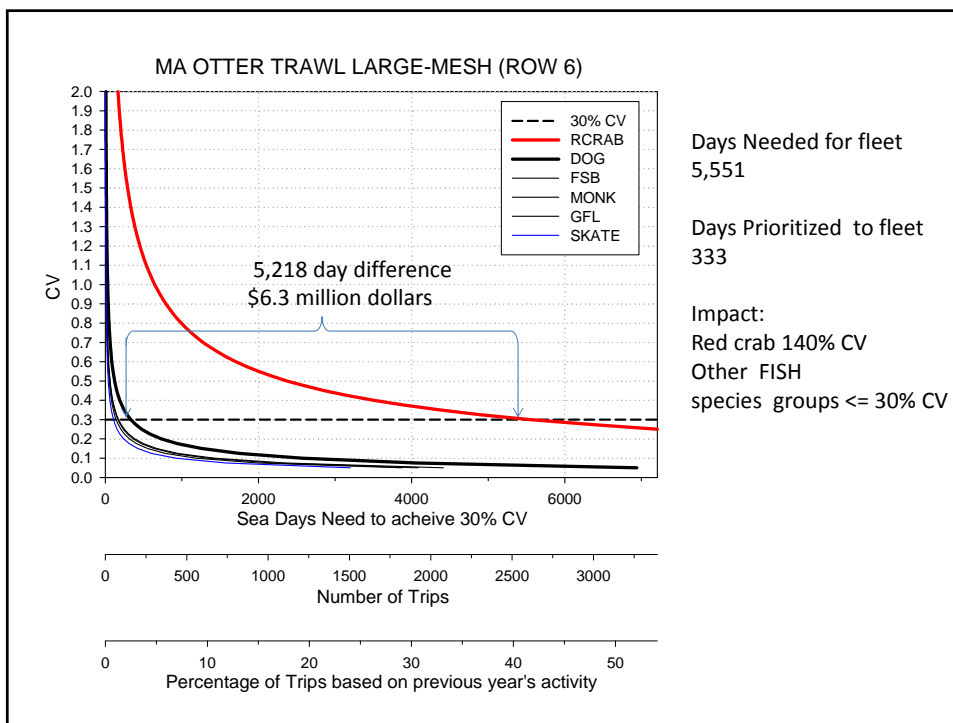
Within the Agency-funded fleets

- 1) Identify the fleet with the most sea days needed
- 2) Instead of using the maximum amount of days for that fleet, use the next highest (penultimate) number of sea days for the fleet
- 3) Repeat across all fleets until the number of required sea days is within funding constraint.
- 4) Fleets with all sea days eliminated, or with too few sea days to give meaningful discard information would get minimum coverage of 3 trips per quarter.

Baseline Sea Days → **Filtered Sea Days**

ROW	FLEET	HERRING	RED CRAB	SCALLOP	GROUNDFISH-LM	GROUNDFISH-SM	FLUKE, SCUP, BSB	TURTLES	PILOT Days	BASELINE Days	FILTERED Days	
2	Longline, NE	426	25	2,501	29	152	25	25	...	25	2,501	25
5	Otter Trawl, MA sm	3,077	3,348	2,103	436	533	1,359	1,415	...	180	3,348	1,415
6	Otter Trawl, MA lg	2,141	1,458	216	163	2,175	265	240	...	240	2,175	2,175
8	Otter Trawl, NE lg	1,479	1,201	786	64	668	370	9,950	...	520	9,950	668
22	Sink Gillnet, NE lg	776	1,473	207	60	378	1,044	207	...	207	1,473	159
35	Mid-water Trawl, NE	575	44	44	697	379	1,096	44	...	44	1,096	379
⋮		⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
	Total Baseline	26,270	24,017	13,584	8,106	11,362	11,408	20,422	...	4,165	51,256	
	Total Filtered	534	940	970	1,736	5,969	5,568	8,508	...	4,165		14,147

- Shaded cells have been filtered out by the importance filter
- New fleet maximum values are determined



SBRM 3-yr Review Alternatives

Element 2 – Analytical Techniques

- Importance filters without the unlikely (grey cell) filter

Element 4 – Reports

- Annual report contents to be more Council-friendly

Element 5 – Framework Adjustments

- Formal Council action not required to add new fishing modes (fleets)

Summary

Full list of potential SBRM alternatives for analysis

Bold = Implemented 2007 SBRM alternatives

* = New alternative from FMAT

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|--|---|
| <p>1) Bycatch Reporting and Monitoring Mechanisms</p> <p>1.1 Status quo</p> <p>1.2 Implement electronic video monitoring</p> <p>2) Analytical Techniques and Allocation of Observers</p> <p>2.1 Status quo</p> <p>2.2 Integrated allocation approach</p> <p>2.3 Integrated allocation approach w/ importance filter</p> <p>– Option A: Importance filters as in draft 2007 SBRM</p> <p>– Option B: Importance filters as adopted in 2007 SBRM</p> <p>– Option C: Option B, but without unlikely (gray-cell) filter based on 3-yr review analysis*</p> <p>2.4 Minimum percent observer coverage</p> <p>3) SBRM Performance Standard</p> <p>3.1 Status quo</p> <p>3.2 Establish a CV standard</p> <p>4) SBRM Review/Reporting Process</p> <p>4.1 Status quo – no required report or periodic review</p> <p>4.2 Specify an SBRM review process</p> <p>– Option A – Annually</p> <p>– Option B – Every 5 years</p> <p>– Option C – SAFE report schedule</p> <p>– Option D – Every 3 years</p> <p>4.3 Require periodic discard reports</p> <p>– Option A – Semi-annual</p> <p>– Option B - Annual</p> | <p>5) Framework Adjustment Provisions</p> <p>5.1 Status quo</p> <p>5.2 Framework adjustment</p> <p>5.3 Frameworks and annual adjustments</p> <p>5.4 Frameworks and annual adjustments without required Council action to add new fleets*</p> <p>6) Prioritization Process</p> <p>6a) Trigger</p> <p>6.1 Status quo</p> <p>6.2 Identify specific SBRM funding sources*</p> <p>6b) Sea day adjustments</p> <p>6.3 Status quo</p> <p>6.4 Proportional adjustments*</p> <p>6.5 Penultimate cell*</p> <p>7) Industry-Funded Observer Programs</p> <p>7.1 Status quo</p> <p>7.2 Observer provider approval</p> <p>7.3 Framework provisions</p> |
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Questions ?

List of potential SBRM alternatives for analysis

Bold = Implemented 2007 SBRM alternatives

* = New alternatives from the FMAT

1) Bycatch Reporting and Monitoring Mechanisms

1.1 Status quo

1.2 Implement electronic video monitoring

2) Analytical Techniques and Allocation of Observers

2.1 Status quo

2.2 Integrated allocation approach

2.3 Integrated allocation approach w/ importance filter

- Option A: Importance filters as in draft 2007 SBRM
- **Option B: Importance filters as adopted in 2007 SBRM**
- Option C: Option B, but without unlikely (gray-cell) filter based on 3-yr review analysis*

2.4 Minimum percent observer coverage

3) SBRM Performance Standard

3.1 Status quo

3.2 Establish a CV standard

4) SBRM Review/Reporting Process

4.1 Status quo – no required report or periodic review

4.2 Specify an SBRM review process

- Option A – Annually
- Option B – Every 5 years
- Option C – SAFE report schedule
- **Option D – Every 3 years**

4.3 Require periodic discard reports

- Option A – Semi-annual
- **Option B - Annual**

5) Framework Adjustment Provisions

5.1 Status quo

5.2 Framework adjustment

5.3 Frameworks and annual adjustments

5.4 Frameworks and annual adjustments without required Council action to add new fleets*

6) Prioritization Process

6a) Trigger

6.1 Status quo

6.2 Identify specific SBRM funding sources*

6b) Sea day adjustments

6.3 Status quo

6.4 Proportional adjustments*

6.5 Penultimate cell approach*

7) Industry-Funded Observer Programs

7.1 Status quo

7.2 Observer provider approval

7.3 Framework provisions