

Agenda Item H.8

Electronic Monitoring Alternatives

Council Action

- 1. Adopt a range of alternatives for EM regulations.**
- 2. Provide guidance on further analysis.**
- 3. Provide guidance on issues indentified in the GEMPAC Report to the Council, as necessary.**
- 4. Provide other guidance as necessary.**

Timeline for Considering EM

Dates	Process Considerations
Oct 2013	<ul style="list-style-type: none"> ● GEMPAC and GEMTAC meeting Seattle
Nov 2013	<ul style="list-style-type: none"> ● Consider initial results of NMFS/PSFMC 2012 field season ● Adopt alternatives for analysis.
April 2013	<ul style="list-style-type: none"> ● Check-in
June 2014	<ul style="list-style-type: none"> ● Consider full analysis of alternative. ● Select preliminary preferred alternative.
Sept 2014	<ul style="list-style-type: none"> ● Select final preferred alternative.
Sept 2014 through 2015	<ul style="list-style-type: none"> ● Secretarial approval process and implementation, including <ul style="list-style-type: none"> ○ regulation drafting and paperwork reduction act submissions, ○ securing contracts for video review, ○ commercial installation and testing, and ○ observer program adjustments.

Overview of Draft EM Program

Agenda Item H.8.a, Attach 1

- Over Arching Policy Decision
- Major Policy Decision Topics
- Data Capture and Processing

Over Arching Policy Decision

Page 1

Alternative 1: No Action – no EM program, 100 percent human observer coverage.

Alternative 2: Use human observers and EM program.

Alternative 3: Use only an EM program.

Major Policy Decision Topics

Page 1

1. EM Participation and Eligibility (Sect. 1.1)
2. Discard Monitoring Method (1.2)
3. Species Discard Alternatives (1.3)
4. Individual Vessel Monitoring Plans (1.4)
5. Implementation of an EM program (1.5)

EM Participation and Eligibility

Section 1.1

Alternative 1: EM is mandatory

Alternative 2: EM is voluntary

- Initial Eligibility (need to develop criteria)
- Continued Eligibility (need to develop criteria)

Monitoring for Discards

Section 1.2

Alternative 1: Self-reporting and Audit

- use logbook discard but review X% video

Alternative 2: Video Census

- use video discard data, 100% video review

Alternative 3: Video Sampling for Expansion

- use video discard data and expand discard rates

Monitoring for Discards cont.'

Spatial management sub-alternative for Alts 1 through 3

- Use EM in low bycatch areas

Discard Alternatives

Section 1.3

Alternatives are based on retention activity

Applies to catcher vessels only

Operational discard

- Selective discard: intentional
- Non-selective: generally not intentional

Discard Categories

Table 3, p. 8

- Catch share groundfish species (IFQ and Allocated, Table 4 and 5)
- Non-catch share species (Table 4 and 5)
- Non-FMP (non-groundfish)
- Other (trash, mud, coral)
- Prohibited: Halibut
- Prohibited: Salmon, Dungeness crab OR/WA
- ESA/MMPA (Table 6)

Discard Alternatives

Section 1.3

Alternative 1: Full retention

- Keep it all, no discards are allowed, no exceptions for things like safety discard

Alt 1. Full Retention

	MS CVs MWT CO-OP	IFQ Program Fisheries			
		SS MWT (whiting and Non- whiting) ^{a/}	BTW	Fixed Gear (LL)	Fixed Gear (POT)
Species Discarded					
Catch share species					
Non-catch share species					
Non-FMP/Not Prohibited					
Other (trash, mud, coral)					
Prohibited: Halibut					
Prohibited: Salmon, Dungeness crab OR/WA					
ESA/MMPA					
Exceptions					

Discard Alternatives

Section 1.3

Alternative 2: Maximized Retention

- Keep all but prohibited species; allowed to discard trash and mud;
- Some non-selective discard exceptions for safety, "bleeding net", zipper accidentally opened, fish came off hook, gilled in net
- Some exceptions for prohibited species

Alt 2. Maximized Retention

	MS CVs MWT CO-OP	IFQ Program Fisheries			
		SS MWT (whiting and Non-whiting)	BTW	Fixed Gear (LL)	Fixed Gear (POT)
Species Discarded					
Catch share species					
Non-catch share species					
Non-FMP/Not Prohibited					
Other (trash, mud, coral)					
Prohibited: Halibut	3	4			
Prohibited: Salmon, Dungeness crab OR/WA	3	4			
ESA/MMPA					
Exceptions	1, 6	1, 6	1, 6	1, 6	1, 6

Discard Alternatives Cont'

Alternative 3: Retention of Catch Share Species with Options.

- Keep all IFQ and COOP allocated species; some discard exceptions
- Includes options for discard

Options under Alternatives

Options: (not mutually exclusive)

- a. Allow discard of flatfish
- b. Allow discard of lingcod and sablefish
- c. Allow discard of all non-rockfish groundfish
- d. Allow discard of all non-groundfish species

Alt 3. Retention of Catch Share Species with suboptions

Species Discarded	MS CVs MWT CO-OP	IFQ Program Fisheries			
		SS MWT (whiting and Non-whiting)	BTW	Fixed Gear (LL)	Fixed Gear (POT)
Catch share species		c	a, b, c	a, b, c	a, b, c
Non-catch share species		a, b, c	c	c	c
Non-FMP/Not Prohibited		d	d	d	d
Other (trash, mud, coral)					
Prohibited: Halibut	3	4			
Prohibited: Salmon, Dungeness crab OR/WA	3	4			
ESA/MMPA					
Exceptions	1,5,6	1,5,6	1,5,6	1,5,6	1,5,6

Discard Alternatives Cont'

Alternative 4: Discard At Will (Status Quo)

Alt 4. Discard at will

Species Discarded	MS CVs MWT CO-OP	IFQ Program Fisheries			
		SS MWT (whiting and Non- whiting) ^{a/}	BTW	Fixed Gear (LL)	Fixed Gear (POT)
Catch share species					
Non-catch share species					
Non-FMP/Not Prohibited					
Other (trash, mud, coral)					
Prohibited: Halibut	3	4			
Prohibited: Salmon, Dungeness crab OR/WA	3	4			
ESA/MMPA					
Exceptions	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6

Individual Vessel Monitoring Plans (IVMP)

Section 1.4

- Approval of plans
- Duration of effectiveness
- Potential categories in an IVMP
 - Example: hardware, software, catch handling

Implementation

Section 1.5

Alternative 1: Implement EM program for all fisheries at one time

Alternative 2: Phase in with a pilot program with EFPs

Alternative 3: Phase in by sector/gear

Data Capture and Processing

Section 2.0

- Vessel Hardware, Data Maintenance, and Onboard Procedures
- Data Transfer Processes
- Data Processing, Validation, and Analysis

Example of Performance Standard

From Department of Fisheries and Oceans Fishery Management Plan – Canada

Any electronic monitoring system must be approved by the Department and must include the following minimum specifications and component requirements:

- a) a video and sensor data-logging engine (control box), equipped with monitor and keyboard...equipped with an external control to allow the user to manually insert time stamped event markers into the sensor record;
- b) operating software to record imagery during fishing events

Agenda Item H.8.b

Supplemental GEMPAC Report

Responses to Council Direction

1. Recommendations for phased-in approach:
 - Implement through retention rules; start with maximized retention fishing
 - Council consider out-of-cycle EFP to use EM in lieu of human observer;

Responses to Council Direction

2. Data loggers are a useful tool
3. Species that may be discarded under a maximum retention fishery (Table 3, p.14)
4. Discard for safety reasons may have been reduced through trawl rationalization program, limit tows time not viable solution

GEMPAC Recommendation for Modifying Alternatives

Remove from further consideration alternatives that require mandatory use of EM.

- Alternative 3: Use Only an EM Program
- Alternative 1: EM is Mandatory

Additions to Alternatives

Section 1.2 Monitoring for Discard p. 6:

- GEMPAC added a sub-alternative: if in high bycatch area, higher level of video review

Discard Alternatives

Section 1.3

Exceptions and Options revisions, p. 15:

- Revised exception 3 to enumerate all catch on a MS CV that is discarded by CV
- Deleted exception 5
- Added option to allow discard if species are verifiable

Individual Vessel Monitoring Plan

Section 1.4

GEMPAC modified alternatives for Duration of Effectiveness, p. 18:

- No expiration unless the plan is changed
- Annual or if modifications are made

Individual Vessel Monitoring Plan

Section 1.4

Clarified Declaration of EM Use, p. 19:

➤ GEMPAC added “No Declaration”

Implementation

Section 1.5

GEMPAC added Alternative 4, p. 20:

Implement by retention rules; start with maximize retention fisheries and move to other retention rules as reliable technologies for speciation are developed.

Data Capture and Processing

Section 2

Leave most of the details for development during implementation

- Develop performance standards to capture and process the data.

GEMPAC Recommendations

Section 3

1. Remove from further analysis Alt 1 and 3 regarding mandatory EM
2. Consider out-of-cycle EFP for max retention fisheries
3. Phase in EM with max retention fisheries
4. Create performance standards for data capture and processing