PACIFIC COAST GROUNDFISH FISHERY MANAGEMENT PLAN AMENDMENT 28: SUPPORTING MATERIALS FOR COUNCIL DECISION MAKING

This supplemental Project Team Report includes documents intended to assist Council decision making relative to final preferred alternatives (FPA) for groundfish fishery management plan (FMP) 28: essential fish habitat (EFH) and Rockfish Conservation Area modifications; and deep water bottom contact gear closures. In addition, the Council should recommend FPAs for a suite of "administrative alternatives" that do not require National Environmental Protection Act (NEPA) analysis, but may require FMP text changes.

This Project Team Report includes the following sections:

- 1. Action Item Checklist
- 2. List of administrative alternatives
- 3. List of overlapping polygons
- 4. Fishery management plan text changes
- 5. Task list and next steps

1. Action Item Checklist – Amendment 28 Final Action

Table 1 is intended to assist the Council in crafting an FPA and to provide necessary guidance to the Project Team.

Table 1. Action Item Checklist

	Subject	Action	Considerations and Guidance		
	NEPA Alternatives (See Preliminary Draft EIS: F.3.a, Project Team Report 1)				
1	Subject Area 1 (EFHCAs)	Select FPA from No Action and Alternatives 1.a, 1.b, 1.c, 1.d, 1.e, 1.f, and 1.g, or a combination	If Alt 1.g is selected, provide guidance on boundaries		
2	Subject Area 2 (trawl RCA)	Select FPA from No Action and Alternatives 2.a, 2.b, and 2.c	 Guidance on determining when (and what mechanism) to turn on/off DACs and BACs. Guidance on spatial scale for BACs, e.g. more latitudes available for BAC definition than just those called out specifically in the analysis. 		
3	Subject Area 3 (Deep water bottom	Select FPA from No Action and			
	contact gear closure)	Alternative 3.a			
		Non-NEPA Alternatives ("Administ	•		
	(See	Table 2, F.3.a: Supplemental Project T	•		
4	FMP Appendix B	Select FPA for revising appendix B	Provide guidance as necessary		
5	FMP Appendix C	Select FPA for revising appendix C	Provide guidance as necessary		
6	FMP Appendix D	Select FPA for revising appendix D	Provide guidance as necessary		
7	EFH information and research needs	Select FPA for revising information and research needs, and move to an FMP appendix	Provide guidance as necessary		
8	EFH review & revision process	Select FPA for revising EFH review/revision process, and describe elsewhere (e.g., COP or SAFE)	Provide guidance as necessary		
9	Clarifications and corrections	Select FPA for clarifications and corrections	Provide guidance as necessary		

	Subject	Action	Considerations and Guidance
		Additional Guidance	
10	FMP amendment language		Provide guidance on when to review and adopt
			FMP language changes, e.g., September 2018
			Council meeting
11	FMP appendices		Provide guidance on when to review and adopt
			FMP amendment changes
12	Regulatory deeming		Provide guidance on whether Executive Director
			or Council will deem the regulations.

2. List of administrative alternatives

At its April 2016 meeting, the Council considered a suite of "administrative alternatives" that do not require NEPA analysis. In some cases (i.e., the FMP appendices), an FMP amendment is not required to update them. Two alternatives (8.b and 9.b) would require FMP text changes and therefore are subject to Secretarial approval.

Table 2. Administrative Alternatives. Alternative numbers are from April 2016

ADMINISTRATI	ADMINISTRATIVE ALTERNATIVES – AMENDMENT 28			
5. Groundfish FMP Appendix B	5.a No Action	5.b Update/revise information in Groundfish FMP Appendix B of the FMP to reflect new information on Pacific Coast Groundfish life history descriptions, text descriptions of groundfish EFH, and major prey items (PPA)		
6. Groundfish FMP Appendix C Part 2	6.a No Action	6.b Revise fishing gear effects described in Groundfish FMP Appendix C Part 2 (PPA)		
7. Groundfish FMP Appendix D	7.a No Action	7.b Update Groundfish FMP Appendix D with new information and add descriptions and conservation measures for new non-fishing activities that may adversely affect EFH (PPA)		

8. Groundfish FMP EFH Information and Research Needs	8.a No Action	8.b Revise groundfish EFH Information and Research Needs section of the FMP and move to an appendix (PPA)
9. Groundfish FMP EFH Review and Revision Process	9.a No Action	9.b Update groundfish EFH review and revision process and describe elsewhere (e.g., COP). Include criteria prior to each review (PPA)
10. Clarifications and Corrections	10.a No Action	10.b Provide clarifications and correct minor errors from Amendment 19 (PPA)

3. Overlapping polygons – Amendment 28 Alternatives

The table below provides summary information for individual areas proposed for closure or reopening, in cases where there is overlap or they are in close proximity. The purpose is to assist the Council in making choices between individual polygons.

- Note: This list does NOT include all polygons in all proposals. These metrics do NOT account for overlap of polygons or other trawl closures.
- All polygons are proposed closures unless otherwise noted.
- How to use this table: Use the Amendment 28 web tool (or NWFSC FRAM Data Warehouse viewer) to see how these polygons relate to each other.
 - o Amendment 28 web tool: http://www.soundgis.com/efh/efh2018-metrics/.
 - o NWFSC FRAM viewer: https://www.nwfsc.noaa.gov/data/map

Table 3. Overlapping or adjacent polygons.

	Polygon (Alternative)	Notes (all are closures unless	Notes
		otherwise indicated)	
1	Nitinat canyon (1a)	$1a = 82 \text{ mi}^2$	Substantial overlap; not identical
	Olympic footprint (1b)	$1b = 97 \text{ mi}^2$	Both are outside UA and inside 700fm
			line
2	Biogenic 2 northern modification (1a)	$1a = 44 \text{ mi}^2$	Substantial overlap; nearly identical
	Quinault canyon (1b)	$1b = 45 \text{ mi}^2$	

	Polygon (Alternative)	Notes (all are closures unless otherwise indicated)	Notes
3	Gray's canyon – 2 modifications (1a)	$1a = closes 13 mi^2$; reopens 9 mi ²	
3	Gray's canyon (1b)	$1b = 20 \text{ mi}^2$	
4	Willapa deep (1a) and Astoria deep (1a)	$1a = 102 \text{ mi}^2$	Both 1a polygons are within the 1b
_	Astoria footprint (1b)	$1b = 379 \text{ mi}^2$	polygon.
5	South Nehalem reef (1b)	$1b = 377 \text{ m}^2$ $1b = 104 \text{ mi}^2$	porygon.
3	Garibaldi reef north (1c)	$1c = 15 \text{ mi}^2$	
6	Garibaldi reef south (1c)	$1c = 4 \text{ mi}^2$	
U	Garibaldi reef south (1d)	$1d = 8 \text{ mi}^2$	
7	N. Daisy bank (1b)	$1b = 19 \text{ mi}^2$	
'	Daisy bank – 4 modifications (1c)	$1c = 5 \text{ mi}^2 \text{ closure}$; 8 mi ² reopening	
8	N. Stonewall Bank (1b)	$1b = 58 \text{ mi}^2$	
8	Stonewall bank – 2 modifications (1c)	1c = 38 m $1c = 21 \text{ mi}^2 \text{ closure}$; $8 \text{ mi}^2 \text{ reopening}$	
9	Heceta bank – 2 modifications (1b)	$1b = 397 \text{ mi}^2$	1c closures are almost entirely within
	Heceta bank – 2 modifications (16)	$10 = 377 \text{ m}$ $1c = 76 \text{ mi}^2$	1b closures
10	Arago reef (1a)	$1a = 67 \text{ mi}^2$	1a is entirely within 1b
10	Cape Arago reef (1b)	$1b = 127 \text{ mi}^2$	Ta is entirely within 10
11	Rogue river reef (1a)	$1a = 63 \text{ mi}^2$	
11	Rogue canyonhead (1b)	$1b = 26 \text{ mi}^2$	
12	Brush patch (1a)	$1a = 46 \text{ mi}^2$	
12	Crescent City deepwater hotspot (1b)	$1b = 52 \text{ mi}^2$	
13	Trinidad canyon (1a)	$10 = 32 \text{ m}$ $1a = 88 \text{ mi}^2$	1a is entirely within 1b
13	Eureka footprint modification (1b)	$1b = 157 \text{ mi}^2$	Ta is chinery within 10
14	Mad river rough patch (1a)	$1a = 5 \text{ mi}^2$	1a is entirely within 1b
17	Somoa reef (1b)	$1b = 16 \text{ mi}^2$	Ta is entirely within 10
15	Eel river canyon modifications (1a) – mix of	$1a = 13 \text{ mi}^2 \text{ closures; } 6 \text{ mi}^2$	1a and 1b have very different
15	open and close	reopening	footprints for this area
	Eel river canyon closures – north and south		Too opinio for this tiet
	(1b)	$1b = 41 \text{ mi}^2 \text{ closures}$	
16	Blunts reef modification (1a)	$1b = 41 \text{ mi}^2 \text{ closures}$ $1a = 9 \text{ mi}^2$	1a and 1b are nearly identical in shape
	Blunt reef expansion (1b)	$1b = 9 \text{ mi}^2$	and to the meaning facilities in shape

	Polygon (Alternative)	Notes (all are closures unless	Notes
		otherwise indicated)	
17	Mendocino ridge – 3 modifications (1a)	$1a = 22 \text{ mi}^2 \text{ closures}, 3 \text{ mi}^2$	
	Mendocino ridge expansion (1b)	reopenings	
	Spanish canyon (1b)	1b (Mendocino ridge) = 78 mi^2	
		closure	
		1b (Spanish canyon) = 28	
		mi ² closure	
18	Delgada canyon (1a)	$1a = 8 \text{ mi}^2 \text{ reopening}$	1b is entirely within 1a
	Delgada canyon (1b)	$1b = 1 \text{ mi}^2$	
19	Spanish canyon line #1 (1a)	$1a = 5 \text{ mi}^2 \text{ closure}$; $5 \text{ mi}^2 \text{ reopening}$	
	Spanish canyon line #2 (1a)	$1b = 69 \text{ mi}^2 \text{ closure}$	
	Delgada canyon deep (1b)		
20	Navarro canyon (1a)	$1a = 18 \text{ mi}^2$	
	Navarro canyon (1b)	$1b = 25 \text{ mi}^2$	
21	Point Arena south modifications (1a)	$1a = 12 \text{ mi}^2 \text{ closure}$; 75 mi ²	
	Saunders reef (1b)	reopenings	
	Pt Arena biogenic modifications (1b)	1b (Saunders r.) = $33 \text{ mi}^2 \text{ closure}$	
		1b (Pt Arena biogenic) = 7 mi ²	
		closure; 42 mi ² reopening	
22	The football (1a)	$1a = 2 \text{ mi}^2$	1a is entirely within 1b
	Russian River (1b)	$1b = 20 \text{ mi}^2$	
23	Gobblers knob (1a)	$1a = 2 \text{ mi}^2$	1a is almost entirely within 1b
	Gobblers knob (1b)	$1b = 18 \text{ mi}^2$	
24	Cordell bank – 4 modifications (1a)	$1a = 16 \text{ mi}^2 \text{ closure}$; 20 mi^2	1a closures are entirely within 1b
	Cordell bank mods (1b)	reopening	closures
		$1b = 71 \text{ mi}^2 \text{ closure}$	
25	Rittenburg bank (1a)	$1a = 10 \text{ mi}^2$	
	Rittenburg bank (1b)	1b (Rittenburg bank) = 17 mi ²	
	Fanny Shoals shelf extension (1b)	1b (Fanny shoals) = 27 mi^2	
	Rittenburg bank (1e)	$1e = 13 \text{ mi}^2$	
26	Farallon Islands mod (1a)	$1a = 6 \text{ mi}^2$	1a is almost entirely within 1b
	Cochrane bank (1b)	$1b = 9 \text{ mi}^2$	

	Polygon (Alternative)	Notes (all are closures unless otherwise indicated)	Notes
27	Farallon escarpment (1a)	$1a = 126 \text{ mi}^2$	1a is almost entirely within 1b
	Farallon escarpment to pioneer canyon deep	$1b = 173 \text{ mi}^2$	
	(1b)		
28	Pigeon point (1a)	$1a = 10 \text{ mi}^2$	1b is almost entirely within 1a
	Pescadero reef (1b)	$1b = 7 \text{ mi}^2$	
29	Ascension canyonhead (1a)	$1a = 6 \text{ mi}^2$	
	Ascension canyonhead (1b)	$1b = 4 \text{ mi}^2$	
30	MONTEREY BAY AREA		All identical footprints
	Identical 1a and 1b polygons:		
	 MBNMS Ascension and Ano Nuevo car 		
	 MBNMS lower portion of Cabrillo cany 		
	• MBNMS SW of smooth ridge (6 mi ² clo		
	• MBNMS outer Soquel canyon (6 mi ² clo		
	• MBNMS south of mars cable (1 mi ² reop		
	• MBNMS west of Carmel canyon (9 mi ²		
	• MBNMS west of Sobranes pt (24 mi ² clo		
	• MBNMS east of Sur ridge (27 mi ² reope		
	 MBNMS triangle south of surveyors known 		
	 MBNMS Sur canyon slot canyons (45 m 		
	• MBNMS Point Sur platform (11 mi ² clo		
	 MBNMS between Partington pt and Lop 		
31	MBNMS La Cruz canyon (1a)	$1a (La Cruz) = 9 mi^2$	The two 1a polygons are entirely
	West of Piedras Blancas SMCA (1a)	$1a \text{ (Piedras Blancas)} = 3 \text{ mi}^2$	within the 1b polygon
	La Cruz canyon to Piedras Blancas (1b)	$1b = 37 \text{ mi}^2$	
32	Southern California bight (1b)	$1b = 16,184 \text{ mi}^2 \text{ closure}$	
	Potato bank (1f)	$1f = 111 \text{ mi}^2 \text{ closure}; 111 \text{ mi}^2$	
		reopening	

4. Amendment 28 FMP Text Changes

Based on final Council action on Amendment 28, the Groundfish FMP would need to be updated to reflect the final Preferred Alternatives. Because the Council has not yet taken final action, the specific changes to the text are not available. The Project Team will describe the specific changes at a future meeting. However, FMP sections likely needing changes include the following:

Table 4. FMP text changes

Chapter/section	Title	Description
Front matter	Table of Contents, Acronyms, etc.	Routine updates, including adding Amendment 28 to the
		table "Changes to the FMP since Amendment 4"
1.1	History of FMP	Add a paragraph describing changes from Amendment 28
6.6.1.2	Commercial Fisheries – General Prohibitions	If the Council adopts changes to the trawl RCA
	regarding trawl gear, including footrope restrictions	(Alternatives 2.a, 2.b, 2.c) this section will be revised to add
	shoreward of a line approximating the 100fm depth contour	narrative about Amendment 28.
6.8	Time/area closures	If the Council adopts changes to the EFHCAs (Alternatives
		1.a through 1.g), to the trawl RCA (Alternatives 2.a through
		2.c), or if the Council adopts deep-sea bottom contact gear
		restrictions, various sub-sections of 6.8 will need revision.
6.8.2	Description of Rockfish Conservation Areas	1. If the Council adopts changes to the trawl RCA, separate
		discussion about the trawl RCA will be added to
		describe the actions taken under Amendment 28
		2. Correct outdated cross references to Federal regulations
6.8.5	Description of Ecologically Important Habitat	1. If the Council adopts EFHCA changes, the June 30,
	Closed Areas	2006, list of bottom trawl closed areas must be revised,
		consistent with the Council's FPA.
		2. Correct outdated cross references to Federal regulations
6.8.6	Bottom Trawl Footprint Closure	No substantive change; add cross reference to Federal
		regulations that define this EFHCA.
6.8.8	New Section titled "Deep Water Bottom Contact	If the Council adopts Alternative 3.a, a new section will be
	Gear Closure"	added describing the prohibition of bottom contact gear in
		waters deeper than 3500 meters, to protect deep-sea benthic
		habitats using MSA discretionary authorities. This text

Title	Description
	would also note that the closure would not be lifted without
	EFP data to inform the potential impacts to habitat. This text
	would cross-reference to the EFP considerations and process
	described in Chapter 8.
Process for Modifying Existing or Designating New	The Council selected a PPA in April 2016 to update
HAPCs	groundfish EFH review and revision process and describe
	elsewhere (e.g., COP), and to include criteria prior to each
	review.
	If the Council provides guidance, Section 7.3.2 would be
	eliminated, and a separate review/revision process would be described elsewhere.
Habitat-Related Research and Monitoring	The Council selected a PPA in April 2016 to revise
	groundfish EFH Information and Research Needs
	section of the FMP and move to an appendix.
	This could alternatively be included in the Council's
	Research and Data Needs document.
Experimental Fisheries	If the Council chooses to use EFPs to protect habitat (e.g. as
	under Alternative 3), edits or additions may be needed in this
	section.
Appendices	Some appendices will be updated with new information,
	after Council final action. FMP Appendices do not require
	Secretarial approval:
	• Appendix B.2 – Groundfish life history descriptions
	• Appendix B.3 – EFH descriptions – updated with new
	species in FMP, updated information on prey species,
	etc.
	 Appendix C.2 – Fishing gear effects
	Appendix C.3 – Coordinates for EFHCAs
	• Appendix C.4 – Map of EFHCAs
	Appendix D – Non-fishing effects
	HAPCs Habitat-Related Research and Monitoring Experimental Fisheries

5. Tasks and Next Steps

Deliverables Required for Completion of the Draft EIS

Under Agenda Item F.3, the Council is scheduled to choose a final preferred alternative (FPA) for Amendment 28 to the Pacific Coast Groundfish Fishery Management Plan. This action would implement changes to Essential Fish Habitat Conservation Areas (EFHCAs) and the trawl Rockfish Conservation Area (RCA), and close waters deeper than 3,500 meters to bottom contact gear using discretionary authorities under the Magnuson-Stevens Conservation and Management Act (MSA).

Several sections of the preliminary draft Environmental Impact Statement (PDEIS) (Agenda Item F.3.a, Project Team Report 1) are incomplete. The Project Team's highest priority was to complete the sections of the document that facilitate informed Council decision-making at this meeting. The current version of the document and supplemental materials are sufficient to support Council decision making. However, completion of an EIS to support NMFS rulemaking will require continued engagement and effort from members of the Project Team (Table 1), NMFS, and the Council. Upon completion of the full DEIS, NMFS will file the draft EIS with the Environmental Protection Agency and it will be available for public review. The list below outlines the work necessary to complete a full DEIS that can be published for public comment.

1. Chapter 2 – Alternatives

a Add description of the FPA; writing, polishing and review needed from most of Project Team

2. Chapter 3 – Affected Environment

a Writing, polishing, and review needed from subgroup of the Project Team

3. Chapters 4 & 5 – Impacts of Alternatives and Impacts of Synthesis Alternatives

- a Analysis, write up, review of impacts of the FPA; requires engagement from most of Project Team
- b Writing, polishing, and review of social impacts; requires engagement from a subgroup of the Project Team
- c Evaluate available new fishery information, update select impact analyses if needed¹; may require engagement from subgroup of the Project Team

4. Chapter 6 – Cumulative Effects

- Analysis write un revis

a Analysis, write up, review of impacts of the alternatives; requires engagement from most of the Project Team

5. Chapter 7 – Consistency with other applicable laws, including the Endangered Species Act; requires review by a sub-group of the Project Team

¹ Updates would likely only be necessitated if there is fishery information since 2014 indicating that the impacts are different than already characterized in the analysis.

6. Chapters 8 & 9 – List of Preparers and References Cited; requires review by a sub-group of the Project Team

Table 1. The Project Team members and other contributors.

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