

This document is intended to correct errors and improve clarity in the following sections of Agenda Item H.2.a, Attachment 1, *Measures for Integrating New Provisions of the Magnuson-Stevens Act and National Standard 1 Guidelines Into Coastal Pelagic Species Management*. Changes are shaded gray in most cases.

Table 2.2-1 on page 7:

Table 2.2-1. CPS FMP specifications for Status Determination Criteria

	MSY	MFMT	MSST	ABC	OY
Pacific sardine	MSY control rule	Catch exceeding ABC	50,000 mt	Equal to MSY control rule calculation	Currently at or below MSY
Pacific (chub) mackerel	MSY control rule	Catch exceeding ABC	18,200 mt	Equal to MSY control rule calculation	Currently at or below MSY
N. anchovy Northern Subpop.	Unknown	Catch exceeding ABC	Not specified	25% of MSY Catch level (unknown)	Unknown
N. anchovy Southern Subpop.	Estimated at 123,000 mt	Catch exceeding ABC	Not specified	25% of estimated MSY or 31,000mt 25,000mt in U.S.	Currently at or below ABC
Market squid	F _{MSY} resulting in egg escape-ment ≥ 30%	F _{MSY} resulting in egg escape-ment ≤ 30%	Not specified	F _{MSY} resulting in egg escape-ment ≥ 30% mt	107,049 mt
Jack mackerel	Age/Area based potential yield	Catch exceeding ABC	Not specified	48,000mt 31,000mt in U.S.	Currently at or below ABC
Krill or Euphausiids	Not specified	Not specified	Not specified	Not specified	0

The description of OFL, ABC, and ACL Considerations under Section 2.3 AND Section 3.3 should be amended as follows:

2.3.1 ACTIVELY MANAGED SPECIES ON PAGES 8-9

Alternative 1 – Status Quo – Maintain the existing harvest control rules as modified to specify the new management reference points.

OFL	BIOMASS x FRACTION x DISTRIBUTION (MSY proxy)
ABC	(BIOMASS - CUTOFF) x FRACTION x DISTRIBUTION
ACL	Equal to ABC or reduced by OY considerations.

Alternative 2 – Scientific Uncertainty Buffer – Modify the existing harvest control rules to include a buffer or reduction in ABC relative to OFL to account for scientific uncertainty. This reduction would be in addition to the precautions build into the FRACTION term in the existing rule. Because the CUTOFF term is intended to address economic and ecological issues (OY considerations) it is proposed as a reduction from ABC to ACL.

OFL	BIOMASS x FRACTION x DISTRIBUTION (MSY proxy)
ABC	(BIOMASS x BUFFER) x FRACTION x DISTRIBUTION
ACL	[(BIOMASS x BUFFER)-CUTOFF] x FRACTION x DISTRIBUTION.

2.3.2 (PAGES 9-10) AND 3.3.2(PAGES 33-34) MONITORED FINFISH AND SQUID SPECIES

Alternative 1 – Status Quo – Maintain the default harvest control rules as modified to specify the new management reference points. ACLs would be specified for multiple years until such time as the species becomes actively managed or new scientific information becomes available.

OFL	STOCK SPECIFIC MSY proxy
ABC	OFL x 0.25
ACL	Equal to ABC or reduced by OY considerations.

Alternative 2 – Scientific Uncertainty Buffer – Modify the existing harvest control rules to include a buffer or reduction in ABC relative to OFL to account for scientific uncertainty. This reduction would be in addition to the precautions build into the default control rule. In practice either a BUFFER recommended by the SSC could be added to the ABC control rule as shown below, or a greater than 75 percent reduction from OFL could be instituted. ACLs would be specified for multiple years until such time as the species becomes actively managed or new scientific information becomes available.

OFL	STOCK SPECIFIC MSY proxy
ABC	OFL x 0.25 x BUFFER
ACL	Equal to ABC or reduced by OY considerations.

Market squid are also a monitored species under the CPS FMP, but the current MSY proxy for market squid is completely different from the finfish species and uses an escapement method detailed in Section 3.

Table 3.3-1 Existing Reference Points in the CPS FMP as Proposed Under Alternative 1 (Page 34)

Jack Mackerel	Source: MacCall and Stauffer (1983)	
OFL	$B \times F_{MSY} \times \text{Distribution}$ 195,000mt x 0.65	124,800 mt
ABC	OFL x 0.25	31,000 mt
ACL	Equal to ABC	31,000 mt
Northern Anchovy, Northern Subpop.	Source: Preliminary acoustic biomass estimate, Zwolinski et al., in prep; Advanced Survey Technologies-SWFSC, 2010	
OFL	$B \times F_{MSY}$ 159,800 mt (CV>0.88) x F_{MSY} ?	Unknown – see Sections 2.1 and 3.1 for discussion of SDC considerations
ABC	OFL x 0.25	Unknown
ACL	Equal to ABC	Unknown
Northern Anchovy, Central Subpop.	Source: Conrad (1991) MSY proxy = 123,000 based on biomass of ~733,000 mt	
OFL	(MSY proxy) x Distribution 123,000mt x 0.82	100,860 mt
ABC	OFL x 0.25	25,000 mt
ACL	Equal to ABC	25,000 mt
Market Squid	Source: CPS FMP Amendment 10 and California State FMP for market squid.	
OFL/MSST	F_{MSY} Resulting in Egg Esc > 30%	NA
ABC	F_{MSY} Resulting in Egg Esc > 30%	NA
ACL/ACT	California Landing Limit	107,049 mt
Krill	Source: Amendment 12 to the CPS FMP	
OFL	No Operational Purpose	
ABC	No Operational Purpose	
ACL	Prohibited Harvest, de minimus amounts tolerated	0

References:

CDFG. 2005. Market Squid Fishery Management Plan. March 25, 2005.

PFMC 2002. Coastal Pelagic Species Fishery Management Plan. Limited Entry

Conrad J. M. 1991. A bioeconomic analysis of the northern anchovy. NMFS, Southwest Fisheries Science Center Admin. Rep. LJ-91-26: 34 p.

MacCall, A.D., and G. D. Stoufer. 1983. Biology and fishery potential of jack mackerel (*Trachurus symmetricus*) CalCOFI Rep. 24: 46-56.

PFMC (1998) CPS FMP Amendment 8 Appendix B <http://www.pcouncil.org/wp-content/uploads/a8apdx.pdf>.

PFMC (2002) CPS FMP Amendment 10 <http://www.pcouncil.org/coastal-pelagic-species/fishery-management-plan-and-amendments/amendment-10/>