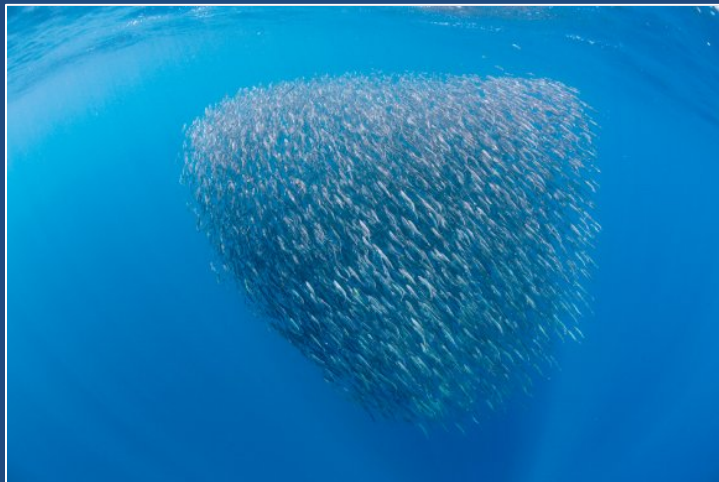


Pacific Fishery Management Council

Coastal Pelagic Species Management

Northern Anchovy & Pacific Sardine



Agenda Item I.1

Ben Enticknap

June 2013

Magnuson-Stevens Fishery Conservation and Management Act

The MSA requires FMPs to “assess and specify the present and probable future condition of, and the *maximum sustainable yield and optimum yield* from, the fishery, and include a summary of the information utilized in making such specification.”

Coastal Pelagic Species FMP

	MSY	MFMT	MSST	ABC	OY
Northern Population Northern Anchovy	Not specified	Catch Exceeding ABC	Not Specified	25% of MSY	Not Specified

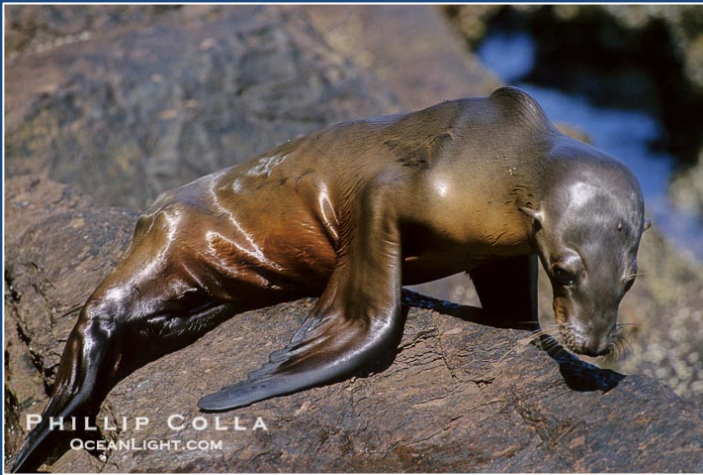
NMFS has the duty to ensure FMPs and amendments are consistent with the national standards, the MSA and other applicable laws.

The Pacific Sardine Population is in Collapse

“[a]larming is the repetition of the fishery’s response to a declining sardine stock – progressively higher exploitation rates targeting the oldest, largest, and most fecund fish.”

- Zwolinski and Demer 2012.

Unusual Mortality Events & Lack of Prey



Request For Emergency Action

	Age 1+ Biomass	2013 OFL	2013 HG
Mid-year biomass (2012)	659,539 mt	103,284 mt	66,495 mt
End-year biomass (2012)	454,683 mt	71,203 mt	39,761 mt
End-year biomass + CalCofi Temp Index and Fraction	454,683 mt	35,601 mt	23,856 mt

“The SSC intends to adopt the CalCOFI temperature index as the environmental covariate used to determine the sardine OFL...”

“The SSC recommends; estimated fish biomass at the start of the fishing season should be used in setting harvest quotas.”