Agenda Item J.6.a Supplemental NMFS Presentation 1 June 2019

Agenda Item J.6

NOAA FISHERIES West Coast Region

OTHOLEN AND ATMOSPHERIC

DEPARTMENT OF CON

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National Marine Fisheries Service (NMFS) Report on Deep-Set Buoy Gear Authorization and Review of Analyses

June 24, 2019

Overview

- Updates on NEPA Analysis
- Preliminary Analysis of Biological Impacts
- Discussion
- **APPENDIX Preliminary DEIS Table of Contents**



Preliminary Analysis of Biological Impacts

- Data Sources
- Species Included
- Fishing Effort Assumptions
- Examples of Catch Predictions



Summary of Reported SBG Catch, 2015-2019									
	2015	2016	2017	2018	2019*	TOTAL			
Swordfish	136	474	556	481	13	1660			
Bigeye thresher shark	66	57	35	32	0	190			
Pelagic thresher shark	0	0	0	2	0	2			
Common thresher shark	0	0	0	1	0	1			
Shortfin mako shark	0	1	0	1	0	2			
Blue shark	3	4	2	1	0	10			
Common mola	0	0	0	1	0	1			
Opah	2	1	0	0	0	3			
Escolar	4	4	3	2	0	13			
Humboldt squid	0	0	1	0	0	1			
Giant squid	0	0	1	0	0	1			
Yelloweye rockfish	0	0	1	0	0	1			
Northern elephant seal	1	0	0	1	0	2			
Loggerhead sea turtle	0	0	0	1	0	1			
Total Days Fished	132	280	325	496	17	1250			

* Only includes January & February 2019



Total Permit Issuance under Council ROA												
Alternative	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
Open Access	500	500	500	500	500	500	500	500	500	500	500	500
Limited Entry 3.1	25	50	75	100	125	150	175	200	225	250	275	300
Limited Entry 3.2	50	100	150	200	250	300	300	300	300	300	300	300
Limited Entry 3.3	100	200	300	300	300	300	300	300	300	300	300	300
Limited Entry 3.4	300	300	300	300	300	300	300	300	300	300	300	300
Limited Entry 3.5 (PPA)	50	75	100	125	150	175	200	225	250	275	300	300



Effort Assumptions						
Active Fishing	43% of available permits will be acquired & fished					
Gear Selection	83% of vessels will fish SBG only					
Average Effort	20.67 days fished per active vessel					



Assumed Effort for Each Alternative								
Alternative	12-Yr Rampup	Annual Ongoing						
Open Access	44,476	3,706						
Limited Entry 3.1	14,455	2,224						
Limited Entry 3.2	21,126	2,224						
Limited Entry 3.3	24,462	2,224						
Limited Entry 3.4	26,686	2,224						
Limited Entry 3.5 (PPA)	16,493	2,224						

All effort figures in days fished



Results: Swordfish

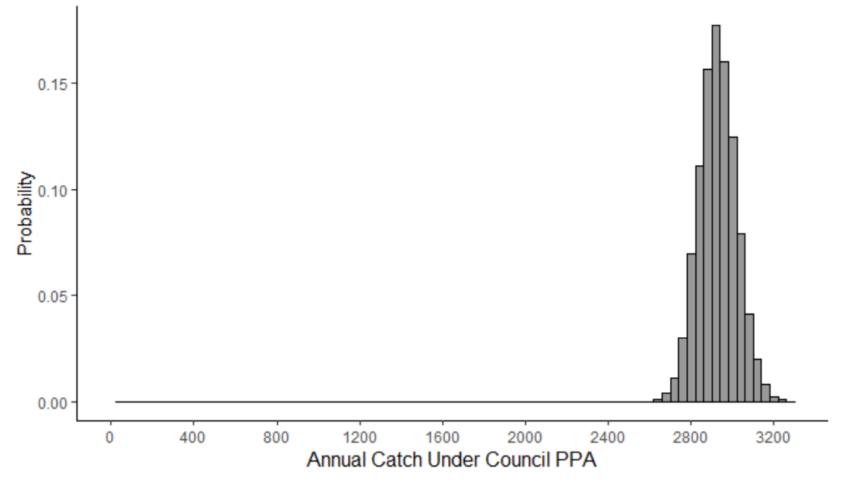
Swordfish

		Mean	CI 2.5%	Median	CI 97.5%	Mode
CPUE	Per Hook Hour	0.01998	0.01902	0.01996	0.02096	
LFUE	Per Day Fished	1.31574	1.25288	1.31457	1.38080	
Open	12-Yr Ramp-Up	58,543	55,727	58,520	61,438	59,122
Access	Ongoing Annual	4,877	4,612	4,875	5,150	4,900
LE	12-Yr Ramp-Up	19,027	18,087	19,019	19,985	18,865
3.1	Ongoing Annual	2,928	2,757	2,926	3,107	2,907
LE	12-Yr Ramp-Up	27,809	26,447	27,800	29,216	27,651
3.2	Ongoing Annual	2,928	2,756	2,927	3,104	2,945
LE	12-Yr Ramp-Up	32,198	30,657	32,192	33,828	32,070
3.3	Ongoing Annual	2,927	2,753	2,927	3,104	2,947
LE	12-Yr Ramp-Up	35,126	33,431	35,120	36,894	35,086
3.4	Ongoing Annual	2,928	2,757	2,926	3,105	2,945
LE	12-Yr Ramp-Up	21,711	20,649	21,708	22,807	21,720
3.5	Ongoing Annual	2,928	2,756	2,926	3,109	2,910



Results: Swordfish

PPD of Annual Swordfish Catch





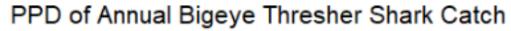
Results: Bigeye Thresher Shark

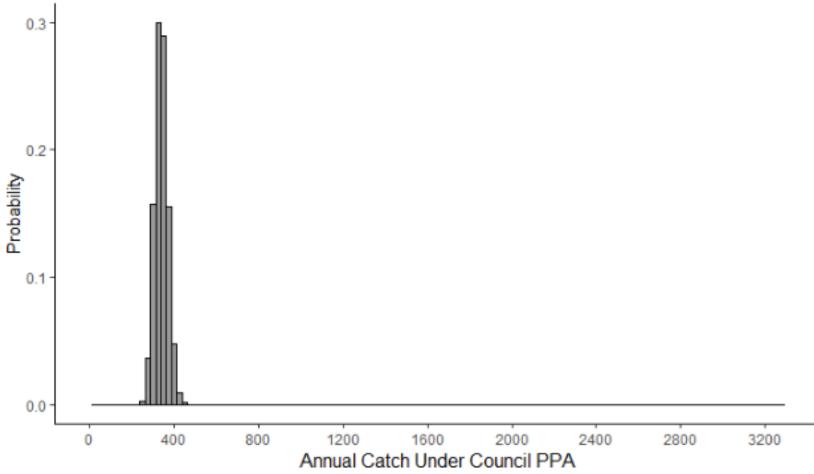
Bigeye Thresher Shark

<u> </u>						
		Mean	CI 2.5%	Median	CI 97.5%	Mode
CPUE	Per Hook Hour	0.00231	0.00199	0.00230	0.00265	
CFUL	Per Day Fished	0.15224	0.13112	0.15157	0.17479	
Open	12-Yr Ramp-Up	6,764	5,822	6,754	7,784	6,757
Access	Ongoing Annual	563	474	562	661	561
LE	12-Yr Ramp-Up	2,198	1,881	2,194	2,535	2,193
3.1	Ongoing Annual	338	280	338	402	344
LE	12-Yr Ramp-Up	3,213	2,754	3,208	3,705	3,122
3.2	Ongoing Annual	338	281	338	401	340
LE	12-Yr Ramp-Up	3,720	3,192	3,715	4,285	3,696
3.3	Ongoing Annual	338	281	338	401	332
LE	12-Yr Ramp-Up	4,058	3,486	4,052	4,674	4,008
3.4	Ongoing Annual	338	280	337	401	334
LE	12-Yr Ramp-Up	2,508	2,149	2,505	2,895	2,555
3.5	Ongoing Annual	338	280	338	402	343



Results: Bigeye Thresher Shark







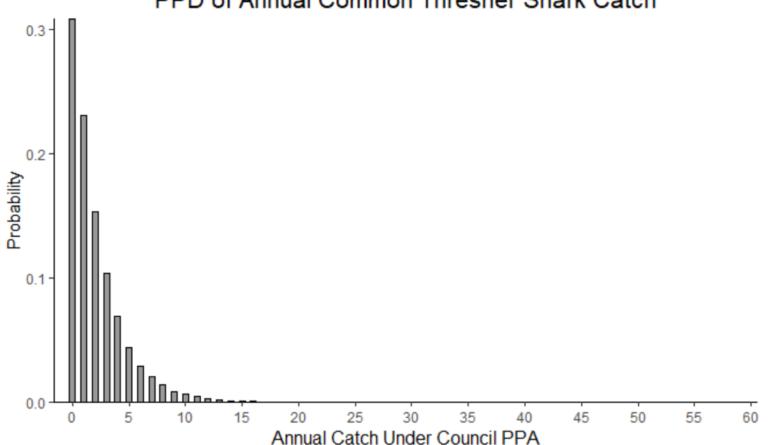
Results: Common Thresher Shark

Common Thresher Shark

		Mean	CI 2.5%	Median	CI 97.5%	Mode
CPUE	Per Hook Hour	0.00001	0.00000	0.00001	0.00005	
CFUE	Per Day Fished	0.00092	0.00003	0.00068	0.00310	
Open	12-Yr Ramp-Up	41	1	30	144	5
Access	Ongoing Annual	3	0	2	13	0
LE	12-Yr Ramp-Up	13	0	10	48	1
3.1	Ongoing Annual	2	0	1	8	0
LE	12-Yr Ramp-Up	20	0	14	70	4
3.2	Ongoing Annual	2	0	1	8	0
LE	12-Yr Ramp-Up	23	0	16	80	3
3.3	Ongoing Annual	2	0	1	9	0
LE	12-Yr Ramp-Up	25	0	18	88	2
3.4	Ongoing Annual	2	0	1	8	0
LE	12-Yr Ramp-Up	15	0	11	54	1
3.5	Ongoing Annual	2	0	1	9	0



Results: Common Thresher Shark



PPD of Annual Common Thresher Shark Catch



Discussion

- Amount of data
- Differences in data sources
- LBG data is not included
- Effort assumptions
- Species-specific issues



Sensitivity Analysis

- Supplemental J.6 report
- Value of additional data
- Comments on NOI to prepare an EIS



Next Steps

- Update analysis of biological impacts
- Incorporate LBG data into the analysis
- Complete a socioeconomic analysis
- Determine significance of impacts
- Provide a preliminary draft EIS to the Council for September 2019 meeting

