20. Assessment of the shark stock complex in the Gulf of Alaska

[2018]

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[NOTE: In accordance with the approved schedule, no assessment was conducted for this stock this year, however, a full stock assessment will be conducted in 2020. Until then, the values generated from the previous stock assessment (below) will be rolled over for 2020 specifications]

Summary of Results

Spiny Dogfish **Quantity**	As estimated or *specified last* year for: 2018	 2019	As estimated or *recommended this* year for: 2019	 2020
M (natural mortality rate)	0.097	0.097	0.097	0.097
Tier	6*	6*	5	5
Biomass (t)	56,181	56,181	54,301	54,301
F_{OFL}	0.097	0.097	0.04	0.04
$maxF_{ABC}$	0.073	0.073	0.03	0.03
F_{ABC}	0.073	0.073	0.03	0.03
OFL (t)	5,450	5,450	10,343	10,343
maxABC (t)	4,087	4,087	7,757	7,757
ABC (t)	4,087	4,087	7,757	7,757
Status	As determined *last* year for: 2016	 2017	As determined *this* year for: 2017	 2018
Overfishing	No	n/a	No	n/a

In the previous assessment spiny dogfish were termed a "Tier 6" because the trawl survey biomass was not considered reliable for the species. If the recommended model from this assessment is accepted, they would be a Tier 5 species.

Pacific sleeper, salmon and other sharks **Quantity**	As estimated or *specified last* year for: 2018	 2019	As estimated or *recommended this* year for: 2019	 2020
Tier	6	6	6	6
OFL (t)	570	570	570	570
maxABC (t)	427	427	427	427
ABC (t)	427	427	427	427
Status	As determined *last* year for: 2016	 2017	As determined *this* year for: 2017	 2018
Overfishing	No	n/a	No	n/a