

# Revised catch only projection for bocaccio in 2025

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This document details a catch-only projection for bocaccio. The most recent (update) assessment for bocaccio was conducted in 2017, which included the stock south of 43° N to the U.S./Mexico border. No updates or catch-only projections have been done since that time. This analysis updates catches between 2017 - 2024 to the best information about observed removals as provided by the Groundfish Management Team (GMT). The removals for 2025 and 2026 were set equal to mortality projections provided by the GMT for each fleet in the model. For years 2027 and beyond, removals were set equal to the projected Annual Catch Limit (ACL) based on a category 1 time-varying  $\sigma$  of 0.5 and a P\* value of 0.45. The buffers from 2027 onward reflect the adjustment for stocks with a high natural mortality rate, with an extension to the year 2036. Projected catches were divided among fleets using the same relative-F as in the 2017 model.

Table 1: 2017 assessment projection and new catch-only projection for OFLs (mt), revised buffer for stocks with high M, ABCs (mt), actual & assumed catch (mt), ACLs (mt), spawning output (billions of eggs), and stock status (fraction of unfished spawning output). The gray shading indicates values from the 2017 assessment projection. The removals for years beyond the values in the 'Actual & Assumed Removals' columns are the ACL values estimated from that model.

Year	OFL (2017)	OFL	Buffer (revised)	ABC (2017)	ABC	Actual & Assumed Removals (2017)	Actual & Assumed Removals	ACL (2017)	ACL	Spawning Output (billions)	Stock Status (2017)	Stock Status
2017	2233	-	-	-	-	790	247	790	-	3,602	48.6%	48.6%
2018	2201	-	-	-	-	741	335	741	-	4,015	53.1%	54.2%
2019	2194	-	-	2097	-	2097	528	2097	-	4,263	55.3%	57.5%
2020	2104	-	-	2011	-	2011	445	2011	-	4,427	54.3%	59.7%
2021	2069	-	-	1978	-	1978	431	1978	-	4,604	53.1%	62.1%
2022	2047	-	-	1957	-	1957	593	1957	-	4,784	51.8%	64.6%
2023	2028	-	-	1939	-	1939	636	1939	-	4,932	50.4%	66.6%
2024	2011	-	-	1923	-	1923	872	1923	-	5,066	49.0%	68.4%
2025	1997	-	-	1909	-	1909	712	1909	-	5,149	47.7%	69.5%
2026	1984	-	-	1897	-	1897	711	1897	-	5,250	46.4%	70.9%
2027	1974	2745	0.891	1887	2446	1887	-	1887	2446	5,342	45.3%	72.1%
2028	1964	2634	0.886	1878	2334	1878	-	1878	2334	5,155	44.2%	69.6%
2029	-	2538	0.881	-	2236	-	-	-	2236	4,969	-	67.1%
2030	-	2457	0.876	-	2153	-	-	-	2153	4,795	-	64.7%
2031	-	2390	0.871	-	2082	-	-	-	2082	4,638	-	62.6%
2032	-	2334	0.866	-	2021	-	-	-	2021	4,501	-	60.7%
2033	-	2288	0.861	-	1970	-	-	-	1970	4,382	-	59.1%
2034	-	2249	0.856	-	1925	-	-	-	1925	4,282	-	57.8%
2035	-	2217	0.851	-	1887	-	-	-	1887	4,196	-	56.6%
2036	-	2191	0.846	-	1854	-	-	-	1854	4,125	-	55.7%