

## Cumberland Sound Turbot Management Area — Annual Catch & ENSO Record

TAC: 500 t/year • 15% (75 t) carryover permitted from prior-year unused quota • Fishing season: January–April

Fishing Year (Jan–Apr)	Winter	Total Catch (t)	TAC (t)	% of TAC	DJF ONI	ENSO State
2009	2008–09	183.95	500	36.8%	-0.85	Weak La Niña
2010	2009–10	<b>65.43</b>	500	13.1%	+1.50	Moderate El Niño
2011	2010–11	53.96	500	10.8%	-1.31	Strong La Niña
2012	2011–12	287.00	500	57.4%	-0.72	Moderate La Niña
2013	2012–13	315.66	500	63.1%	-0.29	Neutral
2014	2013–14	370.55	500	74.1%	-0.28	Neutral
2015	2014–15	295.03	500	59.0%	+0.69	Weak El Niño
2016	2015–16	<b>334.26</b>	500	66.9%	+2.63	Very Strong El Niño
2017	2016–17	459.02	500	91.8%	-0.19	Weak La Niña
2018	2017–18	503.73	500	100.7%	-0.77	Weak La Niña
2019	2018–19	390.60	500	78.1%	+0.89	Weak El Niño
2020	2019–20	504.63	500	100.9%	+0.64	Weak El Niño
2021	2020–21	456.25	500	91.3%	-0.91	Moderate La Niña
2022	2021–22	0.00	500	0.0%	-0.82	Moderate La Niña (closed — COVID-19 <sup>1</sup> )
2023	2022–23	550.17	500	110.0%	-0.54	Weak La Niña
2024	2023–24	<b>290.00</b>	500	58.0%	+1.92	Strong El Niño
2025	2024–25	219.00	500	43.8%	-0.45	Neutral (cool)
2026	2025–26	<b>574.50</b>	500	114.9%	-0.55	Weak La Niña / cool <sup>2</sup>

### Summary Statistics (2022 included as 0 — COVID closure<sup>1</sup>)

18-yr Avg Annual Catch (t)	325.2
Avg TAC Utilization	65.0%

<b>Maximum Annual Catch (t) — record</b>	574.50
<b>Minimum Annual Catch (t)</b>	0.00
<b>Years Reaching ≥90% of TAC</b>	6
<b>Years Below 50% of TAC</b>	5

<b>Average Catch by ENSO Phase (2022 included as 0)</b>				
<b>ENSO Phase</b>	<b>Years</b>	<b>Count</b>	<b>Avg Catch (t)</b>	<b>Avg % of TAC</b>
Moderate-or-stronger El Niño	2010, 2016, 2024	3	271.5	54.3%
Weak El Niño	2015, 2019, 2020	3	396.8	79.4%
Neutral	2013, 2014, 2025	3	301.7	60.3%
La Niña (any strength)	2009, 2011, 2012, 2017, 2018, 2021, 2022, 2023, 2026	9	341.0	68.2%

<sup>1</sup> The Cumberland Sound turbot fishery did not operate in 2022 due to a COVID-19-related closure. The catch is recorded as 0 t and included in averages — this conservative treatment lowers the long-term average and avoids overstating the fishery's typical performance.

<sup>2</sup> 2025–26 winter ONI: NOAA reports SON +0.5°C, OND -0.55°C, indicating an ENSO-neutral / cool-neutral state transitioning toward weak La Niña conditions during the freeze-up and fishing window. Confirmed weak La Niña / cool-neutral.

*Carryover note: Catches exceeding 500 t (2018, 2020, 2023, 2026) reflect the 15% (75 t) carryover provision: when prior-year catch falls short of TAC, up to 75 t of unused quota carries forward. Each over-100% year follows a year that left substantial quota uncaught — and 2026 follows 2025's 219 t catch (281 t left uncaught). authorizing the maximum 75 t*

*ENSO data source: NOAA Climate Prediction Center, Oceanic Niño Index (ONI v5), DJF (Dec–Jan–Feb) values, via Golden Gate Weather Services compilation.*

*Color key: Strong/Very Strong El Niño = dark orange • Weak/Mod El Niño = peach • Neutral = grey • Weak/Mod La Niña = light blue • Strong La Niña = darker blue • Closed year = yellow • New record = green.*