

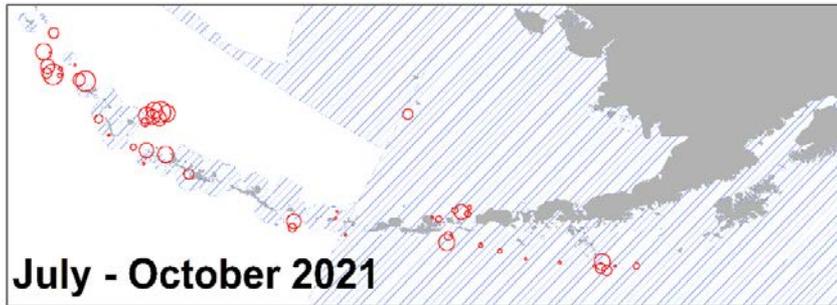
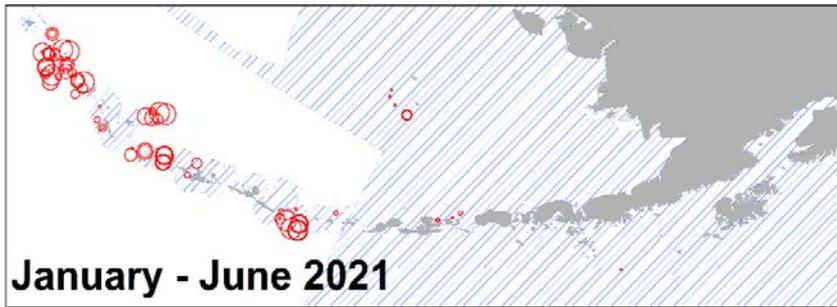
GOA Atka Mackerel

2020 TAC
• 3,000 t

2020 Catch
• 608 t

2021 TAC
• 3,000 t

2021 Catch
• 940 t
(11/1/21)

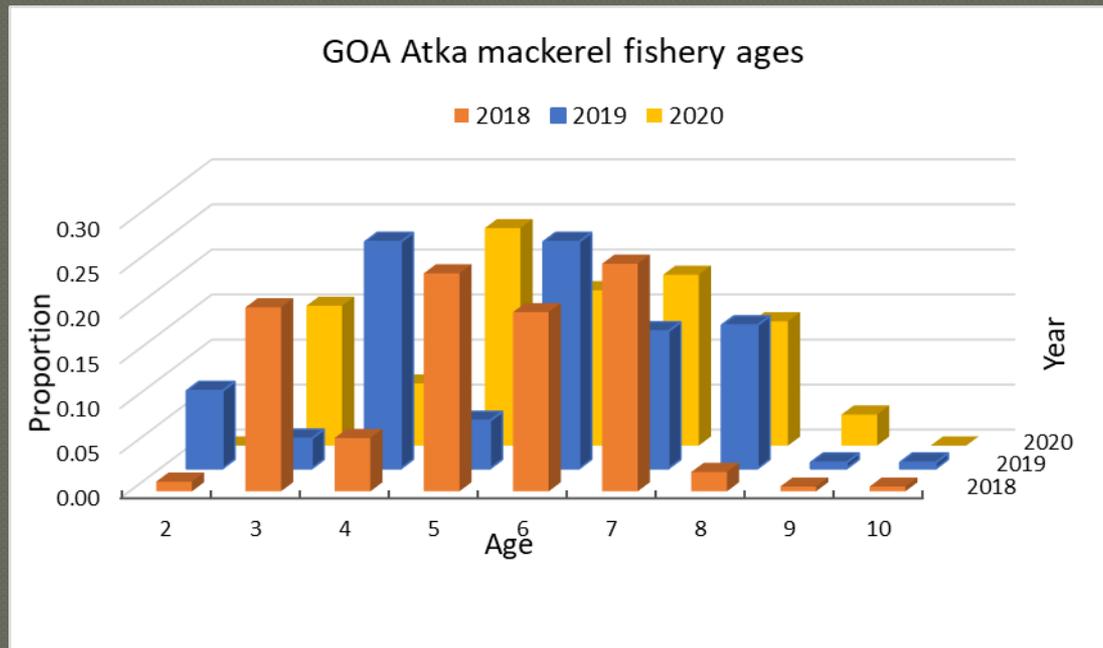


**Observed catch
(Tons)**

- 1 - 5
- 6 - 10
- 11 - 20
- 21 - 40
- 41 - 80
- 81 - 100
- 101 - 200
- 201 - 400
- 401 - 800
- 801 - 3000

2021 observed catches of Atka mackerel summed for 20 km² cells. Shaded areas represent areas closed to directed Atka mackerel fishing (all of GOA).

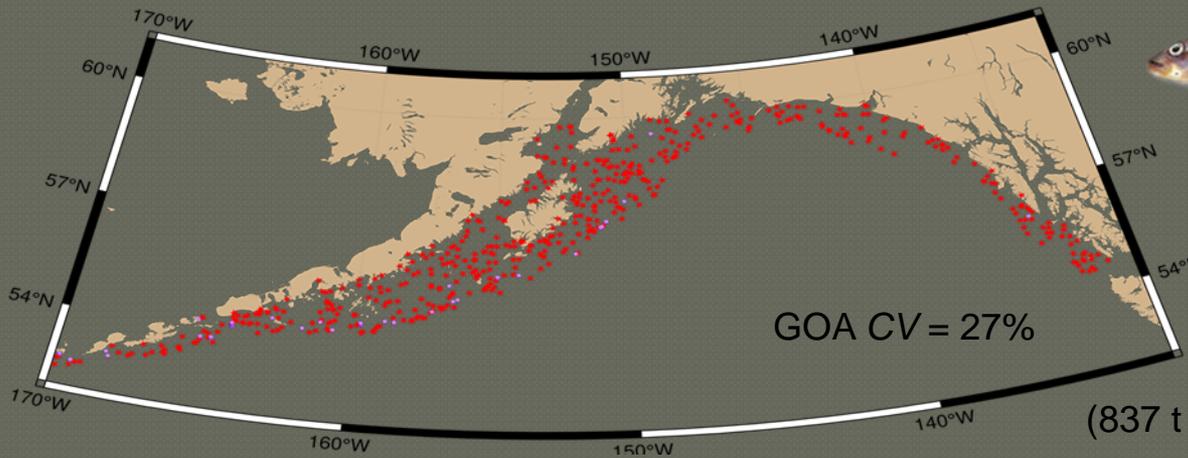




Age frequency distribution of Atka mackerel from the 2018-2020 GOA fisheries. A total of 186, 151, 58 otoliths were collected and aged from the GOA in 2018, 2019, and 2020, respectively

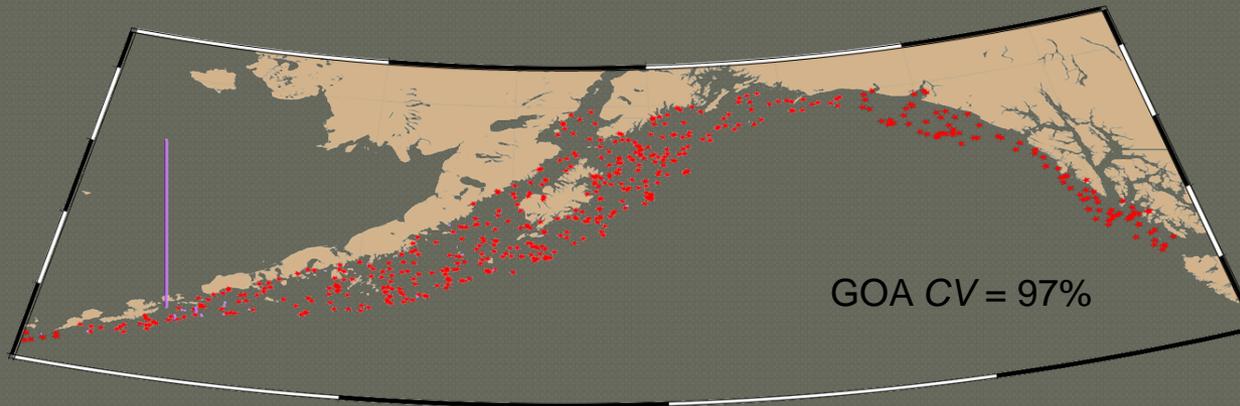


2019



(837 t Gulf-wide)

2021

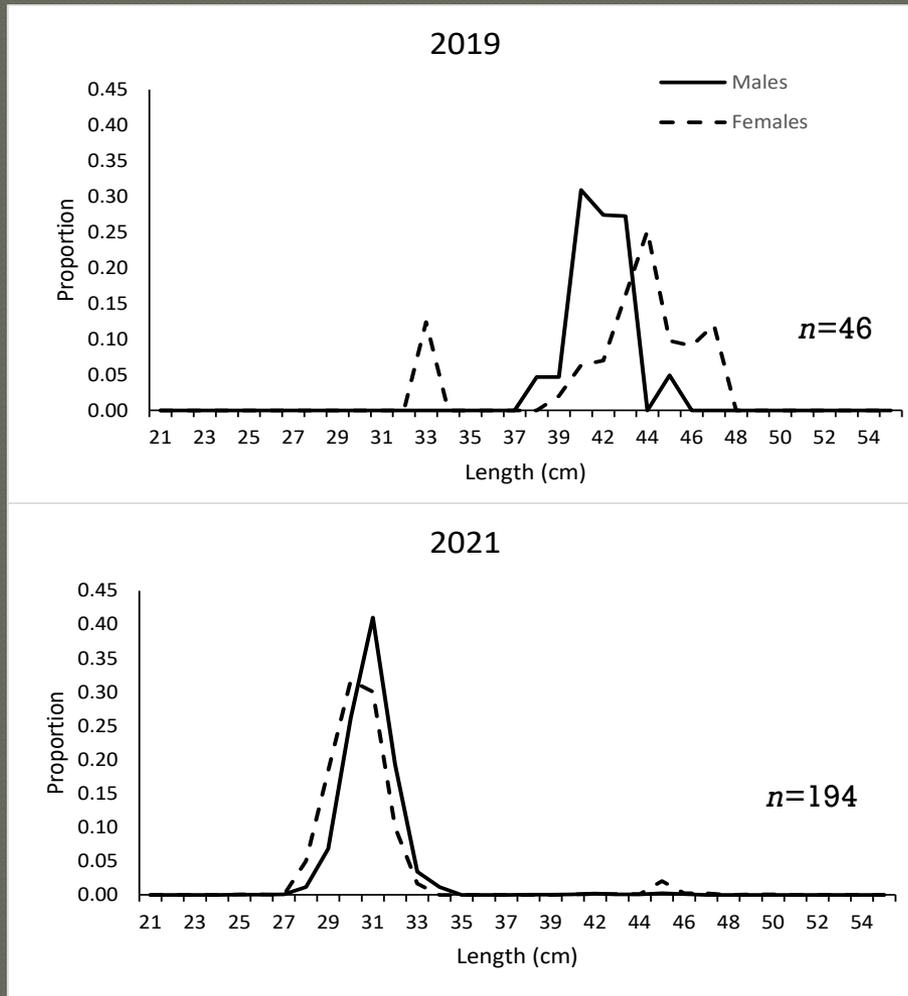


(24,411 t Gulf-wide)

Atka mackerel survey CPUE by station for 2019 and 2021.

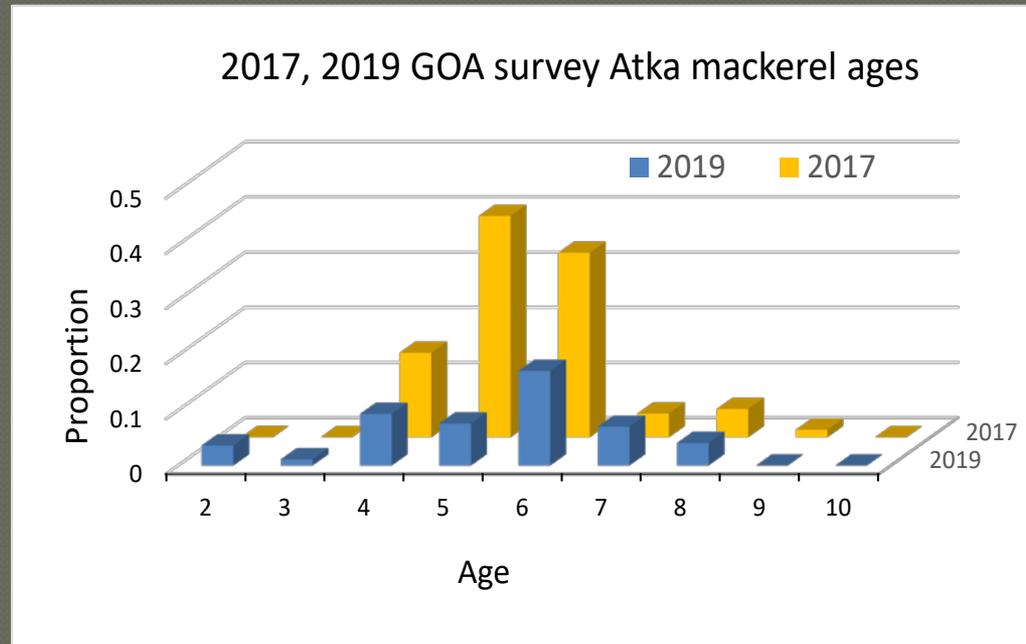
★ stars represent tows where Atka mackerel were absent, height of bars is proportional to CPUE by weight.





Atka mackerel population length frequency distributions from the 2019 and 2021 GOA surveys





Age frequency distribution of Atka mackerel from the 2017 and 2019 GOA surveys. A total of 142 and 41 otoliths were collected and aged from the 2017 and 2019 surveys, respectively.



Should the ABC be reduced below the maximum permissible ABC?

| <i>Assessment- related considerations</i> | <i>Population dynamics considerations</i> | <i>Environmental/ ecosystem considerations</i> | <i>Fishery Performance considerations</i> |
|--|---|--|--|
| Level 1: Typical to moderately increased concerns | Level: UNK Stock and recruitment trends are unknown | Level 1: No apparent environmental/ ecosystem concerns | Level 1: No apparent fishery/resource- use performance and/or behavior concerns |

“The overall score of level 1 suggests that setting the ABC below the maximum permissible is not warranted. Because GOA Atka mackerel are managed in Tier 6, we are not able to set a meaningful ABC based on stock abundance levels and trends which are unknown. Uncertainty for GOA Atka mackerel is accommodated through management with conservative TAC specifications.”

GOA Atka Mackerel

| Quantity | As estimated or specified last year for: | | As estimated or recommended this year for: | |
|------------|--|-------|--|-------|
| | 2021 | 2022 | 2022 | 2023 |
| Tier | 6 | 6 | 6 | 6 |
| OFL (t) | 6,200 | 6,200 | 6,200 | 6,200 |
| maxABC (t) | 4,700 | 4,700 | 4,700 | 4,700 |
| ABC (t) | 4,700 | 4,700 | 4,700 | 4,700 |

OFL = average catch 1978-1995

ABC = 0.75 x OFL

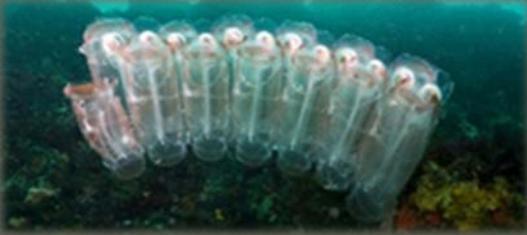


GOA Atka Mackerel



- Prudent management is still warranted and the rationale as given in the past for a TAC to provide for anticipated bycatch needs of other fisheries, principally for Pacific cod, rockfish and pollock, and to only allow for minimal targeting should still be considered.
- The 2021 TAC for GOA Atka mackerel was 3,000 t.
- Total catches of GOA Atka mackerel have remained at about 1,000-1,200 t since 2014.





Questions?



"I have just watched the moon set in all her glory, and looked at those lesser moons, the beautiful Pyrosoma, shining like white-hot cylinders in the water" (T.H. Huxley, 1849)

