

## Data Report

### Estimation of Bycatch with Seabirds, Sea Turtles, Bony Fish, Sharks, and Rays in the 2022 Permitted American Sāmoa Longline Fishery

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The attached Excel Workbook (pir.asll.2022.xlsx) includes annual longline bycatch estimates for the year 2022. Excluding marine mammals, the species list includes those observed caught in the American Sāmoa longline fishery in recent years. From January through May 2022, there were no observed trips due to COVID-19. The method used to estimate bycatch during these months is described in McCracken and Cooper (2022). From June through December 2022, there was approximately 15% coverage of the fishery. McCracken (2019) describes the sampling of the American Sāmoa longline fleet, estimators of bycatch, and the caveats of the sampling and estimators. For the bycatch estimates during these seven months, a simple random sample without replacement was assumed and the standard sample-based estimator used to estimate total bycatch; see Lohr (2010) for more detail. The bycatch of marine mammals will be reported in a separate document. The workbook includes a worksheet labeled “key” that provides definitions of the column headings and the items being estimated.

## References

Lohr SL. 2010. Sampling: Design and Analysis (2nd ed.). Boston: Brooks/Cole.

McCracken ML. 2019. American Samoa Longline Fishery Estimated Anticipated Take Levels for Endangered Species Act Listed Species. Pacific Islands Fisheries Science Center, PIFSC Data Report, DR-19-028, 23 p. <https://doi.org/10.25923/b8gs-j441>.

McCracken M, Cooper B. 2022. Estimation of Bycatch with Seabirds, Sea Turtles, Bony Fish, Sharks, and Rays in the 2020 Permitted American Samoa Longline Fishery. Pacific Islands Fisheries Science Center, PIFSC Data Report, DR-22-001, 2 p. <https://doi.org/10.25923/qz9z-nd71>.

Pacific Islands Fisheries Science Center, 2022: American Samoa Longline Logbook, <https://inport.nmfs.noaa.gov/inport/item/1775>.

Pacific Islands Regional Office, 2022a: American Samoa Longline Trip Log, <https://inport.nmfs.noaa.gov/inport/item/16869>.

Pacific Islands Regional Office, 2022b: Longline Observer Data System, <https://inport.nmfs.noaa.gov/inport/item/9027>.