General Recreational Survey Data for Golden, Blueline, and Goldface Tilefish in the Gulf of America

Samantha M. Binion-Rock

SEFSC01-WP-03

July 2026

This stock assessment working paper is used for documentation and timely communication of preliminary results. The scientific results and conclusions, as well as any views or opinions expressed herein, are those of the author(s) and do not necessarily reflect those of NOAA or the Department of Commerce.

Please cite this document as:

Binion-Rock, Samantha M. 2026. General Recreational Survey Data for Golden, Blueline, and Goldface Tilefish in the Gulf of America. SEFSC01-WP-03. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC). Miami, FL. 78 pp.

SEFSC01-WP-03
General Recreational Survey Data for Golden, Blueline, and Goldface Tilefish in the Gulf of America

NOAA Fisheries
Southeast Fisheries Science Center
Sustainable Fisheries Division
Data Analysis and Assessment Support Branch

Samantha M. Binion-Rock

July 13, 2026

General recreational catch estimates for Golden (*Lopholatilus chamaeleonticeps*), Blueline (*Caulolatilus microps*), and Goldface (*Caulolatilus chrysops*) Tilefish are compiled from the following separate sampling programs:
1. Marine Recreational Information Program (MRIP) (SEDAR68-DW-13)
2. Texas Parks and Wildlife Department (TPWD) Creel survey (SEDAR70-WP-03)
3. Louisiana Creel survey program (LA Creel; 2014+)

- Louisiana Department of Wildlife and Fisheries (LDWF) does not prioritize sampling of Tilefish. Biological data from Louisiana (2014+) are not available for this assessment.

Parameters for data prepared for SEFSC 01 recreational catch data:

- Species: Golden, Blueline, and Goldface Tilefish
    - Goldface Tilefish were only intercepted as 2024 landings for the MRIP charter mode, and so are not included in any of the discard-only or mode summaries presented below
- Year Range: 1981 - 2024
- Geographic Range: Gulf of America states from Texas to western Florida, excluding the Florida Keys.
- Fishing Modes: Charter, Private, and Shore
- Weight Units: gutted weight. Whole weight (WW) was converted to gutted weight (GW) using the following equations.
    - Golden: GW = WW/1.065

- Blueline: GW = 0.94*WW
- Goldface: GW = WW/1.12

- MRIP Calibration: Fully calibrated estimates that take into account the change in the Fishing Effort Survey (FES, which replaced CHTS in 2018), the redesigned Access Point Angler Intercept Survey (APAIS), and the For-Hire Survey (FHS). These calibrations allow for estimates in the entire time series to be compared to one another (Papacostas and Foster 2021).
- MRIP Data Gaps from COVID: Missing 2020 intercepts were imputed from all APAIS data collected in 2018 and 2019 from the same strata as the 2020 data gap, with original sample weights reduced by a factor of two to account for using two years of data (Cody 2021).
- SEFSC Data QAQC: Size records above an allowable (max size) threshold are excluded from average weight estimation and the summary tables included in this working paper (Tables 7-9). For SEFSC 01 Tilefish, this includes any weights heavier than 69.405 pounds.

Summary of Data Imputations

Estimate	Strata	Imputed	Rationale
Catch	1981 Wave1 (TX-FLE)	No	No removals recorded for any Tilefish species from 1981-1984. Assume catch is 0.
Catch	1981 - 1983 (Texas)	No	No removals for any Tilefish species recorded in TX from 1983-1985. Assume catch is 0.
Discards	1981+ (Texas)	No	No discards for any Tilefish species collected in LA for the entire time series. Assume discards are 0.
Discards	2014+ (Louisiana)	No	No discards for any Tilefish species collected in LA from 1981-2013. Assume discards are 0.
Effort	1981 Wave1 (TX-FLE)	Yes	Effort is not species-specific, need to account for effort in Wave1 before MRIP started
Effort	1981 - 1983 (Texas)	Yes	Effort is not species-specific, need to account for Texas effort in 1981-1983 before TPWD started

---

Catch and Sample Size Information for Particular Domains:

Annual estimates that appear relatively large/small compared to the adjacent years were further investigated by identifying and summarizing which strata were disproportionately contributing to the estimate. Estimates investigated are more likely to be high given the inherent zero-boundary constraint in catch data (>=0) that complicates identification of low estimates.

- 2015 Golden Tilefish landings estimate: 20,360 fish
  - Only 11 positive landings intercepts for Golden Tilefish in 2015.
  - *Stratum: AL, Private, Wave 4, and Ocean ≤ 3 miles*
  - Intercept Records: a total of 1 angler trips that resulted in a landings estimate of 11,488 fish (60% of the total annual estimate)
    - One angler trip harvested 8 Golden Tilefish (seen by interviewer)
    - All fish were seen by the dockside sampler, suggesting species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded
  - *Stratum: AL, Private, Wave 5, and Ocean > 3 miles*
  - Intercept Records: a total of 1 angler trip that resulted in a landings estimate of 7,329 fish (36% of the total annual estimate)
    - One angler trip harvested 8 Golden Tilefish (seen by interviewer)
    - All fish were seen by the dockside sampler, suggesting species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded
- 2015 Golden Tilefish discard estimate: 139,471 fish
  - This year is not well-sampled for Golden Tilefish discards, only 1 positive intercept.
  - *Stratum: FLW, Shore, Wave 6, and Ocean ≤ 10 miles*
  - Intercept Records: a total of 1 angler trips that resulted in a discards estimate of 139,471 fish (100% of the total annual estimate)
    - One angler trip released 10 Golden Tilefish (seen by interviewer)
    - The site pressure for this location is relatively high (WP_Catch = 13,947).
- 2020 Golden Tilefish landings estimate: 17,052 fish
  - This year is not well-sampled for Golden Tilefish landings, only 4 positive intercepts.
  - *Stratum: MS, Private, Wave 4, and Ocean > 3 miles*
  - Intercept Records: a total of 1 angler trips that resulted in a landings estimate of 13,407 fish (79% of the total annual estimate)
    - One angler trip harvested 3 Golden Tilefish (not seen by interviewer)
- 2021 Golden Tilefish landings estimate: 61,795 fish

  - This year is not well-sampled for Golden Tilefish landings, only 4 positive intercepts.
  - *Stratum: FL, Private, Wave 4, and Ocean > 10 miles*
  - Intercept Records: a total of 1 angler trips that resulted in a landings estimate of 57,138 fish (92% of the total annual estimate)
    - One angler trip harvested 6 Golden Tilefish (seen by interviewer)
    - All fish were seen by the dockside sampler, suggesting species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded
    - The site pressure for this location is elevated (WP_Catch = 9,523).

- 2015 Blueline Tilefish landings estimate: 3,665 fish
  - This year is not well-sampled for Blueline Tilefish landings, only 1 positive intercept.
  - *Stratum: AL, Private, Wave 5, and Ocean > 3 miles*
  - Intercept Records: a total of 1 angler trips that resulted in a landings estimate of 3,665 fish (100% of the total annual estimate)
    - One angler trip harvested 2 Blueline Tilefish (seen by interviewer)
    - All fish were seen by the dockside sampler, suggesting species identifications were not influenced by angler recall and the number of fish harvested were accurately recorded

Discussion

All three tilefish species are considered rare event species that are infrequently intercepted by MRIP APAIS samplers. A limited number of intercepts were available to inform the estimates. For landings estimates, the majority of the intercepts were seen by the APAIS sampler, suggesting the associated data were accurately reported. The limited number of trip counts contributing to landings estimates appear to be more of a reflection of these species being a rare event species in the MRIP survey and not necessarily an indication of any systematic bias or inaccuracy in these estimates.

Across all years, states, and Tilefish species, there were only two intercepts that reported discarding Tilefish. The 2015 discard estimate for Golden Tilefish is much higher than the only other year with a discard estimate available (a discard estimate of 14 Golden Tilefish in 2021). This high discard estimate is based on a single intercept in the shore mode. Tilefish are associated with deeper habitats and it is possible that the angler misidentified the discarded fish as a Golden Tilefish since Golden Tilefish are not typically-associated with shore habitats. It is recommended to exclude the shore mode from this assessment.

Appendices

Appendix A. Additional Details of Survey Data and SEFSC Estimation

References

Cody, R. 2021. MRIP 2020 Estimates: Overview of Methodology and Select Catch and Effort Estimates. Office of Science and Technology (OST) Marine Recreational Information Program (MRIP) Fisheries Statistics Division. Silver Spring, MD. Presentation given to the Mid-Atlantic Fishery Management Council at the June 8 2021 council meeting. Retrieved from: https://www.mafmc.org/briefing/june-2021

Dettloff, K and VM Matter. 2019a. SEDAR 64-RD-12. Model-estimated conversion factors for calibrating Coastal Household Telephone Survey (CHTS) charterboat catch and effort estimates with For Hire Survey (FHS) estimates in the Atlantic and Gulf of Mexico with application to red grouper and greater amberjack. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Dettloff, K and VM Matter. 2019b. SEDAR 67-WP-06. Sample Size Sensitivity Analysis for calculating MRIP Weight Estimates. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Dettloff, K, VM Matter, and MA Nuttall. 2020. SEDAR 68-DW-10. SEFSC Computation of Variance Estimates for Custom Data Aggregations from the Marine Recreational Information Program. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Matter, VM and A Rios. 2013. SEDAR 32-DW-02. MRFSS to MRIP Adjustment Ratios and Weight Estimation Procedures for South Atlantic and Gulf of Mexico Managed Species. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Matter, VM and MA Nuttall. 2020. SEDAR 68-DW-13. Marine Recreational Information Program: Metadata for the Atlantic, Gulf of Mexico, and Caribbean Regions. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Personal Communication from the National Marine Fisheries Service (NMFS), Office of Science and Technology, Fisheries Statistics Division. Recreational Fisheries Statistics Queries. US Department of Commerce. Retrieved May 19, 2026.

Nuttall, MA and K Dettloff. 2022. SEDAR 74-DW-12. SEFSC Computation of Uncertainty for General Recreational Landings in Weight Estimates, with Application to SEDAR 74 Gulf of Mexico Red Snapper. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Sustainable Fisheries Division. Miami, FL.

Nuttall, MA and VM Matter. 2020. SEDAR 70-WP-03. Texas Parks and Wildlife Department's Marine Sport-Harvest Monitoring Program Metadata. National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) Fisheries Statistics Division. Miami, FL.

Papacostas, KJ and J Foster. 2021. The Marine Recreational Information Program: Survey Design and Statistical Methods for Estimation of Recreational Fisheries Catch and Effort. Available at: https://www.fisheries.noaa.gov/resource/document/survey-design-and-statistical-methods-estimation-recreational-fisheries-catch-and

SEDAR. 2015. SEDAR-PW-07. SEDAR Procedural Workshop 7: Data Best Practices. SEDAR, North Charleston, SC. 151 pp. Available online at: http://sedarweb.org/pw-07

Table 1. Annual landings (AB1) and discards (B2) of **Golden, Blueline, and Goldface Tilefish** in numbers from all data sources (MRIP, LACreel 2014+, TPWD).

	Landings (n)				Discards (n)			
Year	Golden	Blueline	Goldface	Total	Golden	Blueline	Goldface	Total
1981	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0
1987	428	0	0	428	0	0	0	0
1988	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0
1990	485	0	0	485	0	0	0	0
1991	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	97	0	97	0	0	0	0
2005	1,063	119	0	1,182	0	0	0	0
2006	0	63	0	63	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	141	0	0	141	0	0	0	0
2009	0	198	0	198	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	97	0	0	97	0	0	0	0

	Landings (n)				Discards (n)			
Year	Golden	Blueline	Goldface	Total	Golden	Blueline	Goldface	Total
2013	1,988	24	0	2,231	0	0	0	0
2014	9,774	36	0	9,810	0	0	0	0
2015	20,360	3,665	0	24,025	139,471	0	0	139,471
2016	9,163	242	0	9,405	0	0	0	0
2017	241	18	0	259	0	0	0	0
2018	8,862	1,579	0	10,441	0	0	0	0
2019	408	12	0	420	0	0	0	0
2020	17,052	444	0	17,496	0	0	0	0
2021	61,795	6	0	61,801	14	0	0	14
2022	3,056	264	0	3,320	0	0	0	0
2023	637	1,009	0	1,646	0	0	0	0
2024	2,561	0	69	693	0	0	0	0

Table 2A. Annual landings (AB1) and discards (B2) of **Golden Tilefish** in numbers of fish by state and year from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

	TX		LA		MS		AL		FLW		Total	
Year	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981			0	0	0	0	0	0	0	0	0	0
1982			0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	428	0	428	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	485	0	0	0	485	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	1,063	0	0	0	1,063	0
2006	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	141	0	0	0	0	0	0	0	141	0
2009	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	97	0	97	0
2013	0	0	0	0	0	0	1,988	0	0	0	1,988	0
2014	0	0	849	0	0	0	64	0	8,861	0	9,774	0

	TX		LA		MS		AL		FLW		Total	
Year	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**
2015	0	0	1,315	0	0	0	19,045	0	0	139,471	20,360	139,471
2016	0	0	63	0	0	0	0	0	9,100	0	9,163	0
2017	32	0	209	0	0	0	0	0	0	0	241	0
2018	0	0	286	0	0	0	1,997	0	6,578	0	8,862	0
2019	0	0	408	0	0	0	0	0	0	0	408	0
2020	60	0	1,341	0	13,408	0	2,243	0	0	0	17,052	0
2021	0	0	4,371	0	0	0	286	14	57,138	0	61,795	14
2022	58	0	752	0	0	0	657	0	1,590	0	3,056	0
2023	119	0	468	0	0	0	50	0	0	0	637	0
2024	0	0	117	0	1,207	0	1,237	0	0	0	2,561	0

Table 2B. Annual landings (AB1) and discards (B2) of **Blueline Tilefish** in numbers of fish by state and year from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

	TX		LA		MS		AL		FLW		Total	
Year	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981			0	0	0	0	0	0	0	0	0	0
1982			0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	97	0	97	0
2005	0	0	0	0	0	0	0	0	119	0	119	0
2006	0	0	0	0	0	0	0	0	63	0	63	0
2007	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	198	0	198	0
2010	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	24	0	0	0	24	0

	TX		LA		MS		AL		FLW		Total	
Year	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2014	0	0	0	0	0	0	36	0	0	0	36	0
2015	0	0	0	0	0	0	3,665	0	0	0	3,665	0
2016	0	0	0	0	0	0	0	0	242	0	242	0
2017	0	0	18	0	0	0	0	0	0	0	18	0
2018	0	0	4	0	0	0	1,575	0	0	0	1,579	0
2019	0	0	12	0	0	0	0	0	0	0	12	0
2020	0	0	0	0	0	0	444	0	0	0	444	0
2021	0	0	6	0	0	0	0	0	0	0	6	0
2022	0	0	182	0	0	0	82	0	0	0	264	0
2023	26	0	804	0	0	0	179	0	0	0	1,009	0
2024	0	0	0	0	0	0	0	0	0	0	0	0

Table 2C. Annual landings (AB1) and discards (B2) of **Goldface Tilefish** in numbers of fish by state and year from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys. All Goldface Tilefish are from the charter mode. No landed or discarded Goldface Tilefish were sampled by MRIP from 1981-2023.

	TX		LA		MS		AL		FLW		Total	
Year	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2	AB1	B2
2024	0	0	0	0	0	0	66	0	3	0	69	0

Table 3A. Annual landings (AB1) and discards (B2) of **Golden Tilefish** in numbers of fish by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Note catch from the combined private-shore fishing mode in the LA Creel survey is added to the private mode.

	Shore		Cbt		Priv		Total	
Year	AB1	B2	AB1	B2	AB1	B2	AB1	B2
1981	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0
1987	0	0	428	0	0	0	428	0
1988	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0
1990	0	0	485	0	0	0	485	0
1991	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	1,063	0	1,063	0
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	0	0	141	0	0	0	141	0
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0
2012	0	0	97	0	0	0	97	0
2013	0	0	0	0	1,988	0	1,988	0

	Shore		Cbt		Priv		Total	
Year	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**
2014	0	0	64	0	9,710	0	9,774	0
2015	0	139,471	249	0	20,111	0	20,360	139,471
2016	0	0	31	0	9,132	0	9,163	0
2017	0	0	1	0	240	0	241	0
2018	0	0	79	0	8,783	0	8,862	0
2019	0	0	69	0	339	0	408	0
2020	0	0	353	0	16,698	0	17,052	0
2021	0	0	330	14	61,465	0	61,795	14
2022	0	0	1,665	0	1,392	0	3,056	0
2023	0	0	134	0	503	0	637	0
2024	0	0	80	0	2,481	0	2,561	0

Table 3B. Annual landings (AB1) and discards (B2) of **Blueline Tilefish** in numbers of fish by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Note catch from the combined private-shore fishing mode in the LA Creel survey is added to the private mode.

	Cbt		Priv		Total	
Year	AB1	B2	AB1	B2	AB1	B2
1981	0	0	0	0	0	0
1982	0	0	0	0	0	0
1983	0	0	0	0	0	0
1984	0	0	0	0	0	0
1985	0	0	0	0	0	0
1986	0	0	0	0	0	0
1987	0	0	0	0	0	0
1988	0	0	0	0	0	0
1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	0	0	0	0	0
1994	0	0	0	0	0	0
1995	0	0	0	0	0	0
1996	0	0	0	0	0	0
1997	0	0	0	0	0	0
1998	0	0	0	0	0	0
1999	0	0	0	0	0	0
2000	0	0	0	0	0	0
2001	0	0	0	0	0	0
2002	0	0	0	0	0	0
2003	0	0	0	0	0	0
2004	97	0	0	0	97	0
2005	119	0	0	0	119	0
2006	63	0	0	0	63	0
2007	0	0	0	0	0	0
2008	0	0	0	0	0	0
2009	198	0	0	0	198	0
2010	0	0	0	0	0	0
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	24	0	0	0	24	0

	Cbt		Priv		Total	
Year	**AB1**	**B2**	**AB1**	**B2**	**AB1**	**B2**
2014	36	0	0	0	36	0
2015	0	0	3,665	0	3,665	0
2016	242	0	0	0	242	0
2017	18	0	0	0	18	0
2018	4	0	1,575	0	1,579	0
2019	12	0	0	0	12	0
2020	0	0	444	0	444	0
2021	6	0	0	0	6	0
2022	229	0	35	0	264	0
2023	179	0	830	0	1,009	0
2024	0	0	0	0	0	0

Table 4A. Golden Tilefish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Tilefish.

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	0	0.00	76 (0)	610 (0)	0	0.00	76 (0)	610 (0)	0	0.00	221 (0)	1,780 (0)	0	0.00	324 (0)	1,942 (0)
1982	0	0.00	76 (0)	597 (0)	0	0.00	76 (0)	597 (0)	0	0.00	467 (0)	3,773 (0)	0	0.00	538 (0)	3,727 (0)
1983	0	0.00	232 (0)	1,560 (0)	0	0.00	123 (0)	1,357 (0)	0	0.00	739 (0)	7,100 (0)	0	0.00	372 (0)	2,603 (0)
1984	0	0.00	190 (0)	1,668 (0)	0	0.00	116 (0)	1,518 (0)	0	0.00	752 (0)	5,588 (0)	0	0.00	377 (0)	2,906 (0)
1985	0	0.00	196 (0)	1,476 (0)	0	0.00	89 (0)	1,260 (0)	0	0.00	902 (0)	7,611 (0)	0	0.00	497 (0)	3,606 (0)
1986	0	0.00	426 (0)	2,672 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,754 (0)	14,258 (0)	0	0.00	424 (0)	2,082 (0)
1987	428	1.00	397 (1)	2,475 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,773 (0)	15,007 (0)	0	0.00	371 (0)	2,158 (0)
1988	0	0.00	389 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,865 (0)	15,264 (0)	0	0.00	601 (0)	3,609 (0)
1989	0	0.00	353 (0)	1,671 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,395 (0)	11,106 (0)	0	0.00	422 (0)	2,936 (0)
1990	485	0.78	251 (2)	1,219 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,167 (0)	8,598 (0)	0	0.00	383 (0)	2,498 (0)
1991	0	0.00	338 (0)	1,791 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,246 (0)	10,364 (0)	0	0.00	429 (0)	2,811 (0)
1992	0	0.00	523 (0)	3,283 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,906 (0)	19,736 (0)	0	0.00	846 (0)	5,746 (0)
1993	0	0.00	345 (0)	1,831 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,572 (0)	16,403 (0)	0	0.00	899 (0)	7,497 (0)
1994	0	0.00	390 (0)	1,970 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,640 (0)	19,134 (0)	0	0.00	895 (0)	8,948 (0)
1995	0	0.00	370 (0)	1,811 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,501 (0)	17,396 (0)	0	0.00	742 (0)	8,011 (0)
1996	0	0.00	445 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,808 (0)	19,576 (0)	0	0.00	703 (0)	5,607 (0)
1997	0	0.00	603 (0)	2,793 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,731 (0)	19,990 (0)	0	0.00	654 (0)	5,719 (0)

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1998	0	0.00	879 (0)	4,983 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,897 (0)	22,440 (0)	0	0.00	757 (0)	6,598 (0)
1999	0	0.00	1,157 (0)	7,919 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,442 (0)	28,056 (0)	0	0.00	937 (0)	8,775 (0)
2000	0	0.00	1,183 (0)	9,761 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,233 (0)	24,056 (0)	0	0.00	843 (0)	7,275 (0)
2001	0	0.00	1,035 (0)	8,268 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,093 (0)	24,695 (0)	0	0.00	798 (0)	7,364 (0)
2002	0	0.00	1,034 (0)	8,664 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,165 (0)	25,906 (0)	0	0.00	787 (0)	7,485 (0)
2003	0	0.00	1,156 (0)	9,498 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,328 (0)	25,573 (0)	0	0.00	920 (0)	8,029 (0)
2004	0	0.00	1,151 (0)	10,429 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,130 (0)	24,695 (0)	0	0.00	692 (0)	6,486 (0)
2005	0	0.00	958 (0)	8,372 (0)	0	0.00	0 (0)	0 (0)	1,063	1.00	1,992 (1)	22,721 (1)	0	0.00	657 (0)	6,422 (0)
2006	0	0.00	907 (0)	7,193 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,295 (0)	25,207 (0)	0	0.00	724 (0)	6,551 (0)
2007	0	0.00	934 (0)	7,302 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,245 (0)	24,782 (0)	0	0.00	755 (0)	6,773 (0)
2008	141	1.00	844 (1)	5,811 (1)	0	0.00	0 (0)	0 (0)	0	0.00	2,392 (0)	25,619 (0)	0	0.00	763 (0)	6,695 (0)
2009	0	0.00	825 (0)	5,603 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,428 (0)	26,727 (0)	0	0.00	813 (0)	7,343 (0)
2010	0	0.00	801 (0)	5,316 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,385 (0)	24,592 (0)	0	0.00	756 (0)	7,281 (0)
2011	0	0.00	970 (0)	7,101 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,530 (0)	26,143 (0)	0	0.00	786 (0)	7,159 (0)
2012	97	1.00	1,048 (1)	8,231 (2)	0	0.00	0 (0)	0 (0)	0	0.00	2,685 (0)	26,630 (0)	0	0.00	843 (0)	8,045 (0)
2013	0	0.00	689 (0)	3,725 (0)	0	0.00	0 (0)	0 (0)	1,988	1.00	2,357 (2)	23,384 (2)	0	0.00	637 (0)	6,432 (0)
2014	64	1.00	1,277 (1)	6,924 (1)	0	0.00	0 (0)	0 (0)	9,710	0.91	3,463 (2)	31,639 (2)	0	0.00	409 (0)	4,262 (0)
2015	249	0.92	1,405 (2)	7,527 (5)	0	0.00	0 (0)	0 (0)	20,111	0.68	3,613 (6)	31,347 (6)	0	0.00	425 (0)	4,143 (0)
2016	31	0.45	1,476 (2)	7,130 (3)	0	0.00	0 (0)	0 (0)	9,132	0.84	3,783 (3)	32,416 (3)	0	0.00	675 (0)	4,688 (0)
2017	1	1.00	1,416 (1)	7,266 (1)	0	0.00	0 (0)	0 (0)	240	0.53	3,447 (4)	30,176 (4)	0	0.00	548 (0)	4,237 (0)

	Cbt				Hbt				Priv				Shore			
Year	**AB1**	**CV**	**PSU**	**Trp**	**AB1**	**CV**	**PSU**	**Trp**	**AB1**	**CV**	**PSU**	**Trp**	**AB1**	**CV**	**PSU**	**Trp**
2018	79	0.38	1,444 (3)	7,803 (4)	0	0.00	0 (0)	0 (0)	8,783	0.77	3,364 (6)	26,387 (7)	0	0.00	529 (0)	4,377 (0)
2019	69	0.47	1,524 (5)	7,652 (5)	0	0.00	0 (0)	0 (0)	339	0.35	3,377 (5)	26,983 (6)	0	0.00	565 (0)	4,408 (0)
2020	353	0.37	1,450 (7)	7,356 (7)	0	0.00	0 (0)	0 (0)	16,698	0.81	3,469 (11)	30,352 (14)	0	0.00	603 (0)	4,356 (0)
2021	330	0.69	1,658 (9)	9,838 (9)	0	0.00	0 (0)	0 (0)	61,465	0.93	3,319 (11)	23,236 (11)	0	0.00	703 (0)	6,124 (0)
2022	1,665	0.96	1,510 (6)	8,175 (6)	0	0.00	0 (0)	0 (0)	1,392	0.53	3,289 (5)	20,410 (5)	0	0.00	657 (0)	4,769 (0)
2023	134	0.40	1,729 (7)	11,276 (7)	0	0.00	0 (0)	0 (0)	503	0.56	3,454 (9)	22,889 (10)	0	0.00	756 (0)	6,102 (0)
2024	80	0.46	1,711 (4)	11,570 (4)	0	0.00	0 (0)	0 (0)	2,481	0.70	3,221 (4)	21,008 (4)	0	0.00	722 (0)	6,285 (0)

Table 4B. Blueline Tilefish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Blueline Tilefish.

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1981	0	0.00	76 (0)	610 (0)	0	0.00	76 (0)	610 (0)	0	0.00	221 (0)	1,780 (0)	0	0.00	324 (0)	1,942 (0)
1982	0	0.00	76 (0)	597 (0)	0	0.00	76 (0)	597 (0)	0	0.00	467 (0)	3,773 (0)	0	0.00	538 (0)	3,727 (0)
1983	0	0.00	232 (0)	1,560 (0)	0	0.00	123 (0)	1,357 (0)	0	0.00	739 (0)	7,100 (0)	0	0.00	372 (0)	2,603 (0)
1984	0	0.00	190 (0)	1,668 (0)	0	0.00	116 (0)	1,518 (0)	0	0.00	752 (0)	5,588 (0)	0	0.00	377 (0)	2,906 (0)
1985	0	0.00	196 (0)	1,476 (0)	0	0.00	89 (0)	1,260 (0)	0	0.00	902 (0)	7,611 (0)	0	0.00	497 (0)	3,606 (0)
1986	0	0.00	426 (0)	2,672 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,754 (0)	14,258 (0)	0	0.00	424 (0)	2,082 (0)
1987	0	0.00	397 (0)	2,475 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,773 (0)	15,007 (0)	0	0.00	371 (0)	2,158 (0)
1988	0	0.00	389 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,865 (0)	15,264 (0)	0	0.00	601 (0)	3,609 (0)
1989	0	0.00	353 (0)	1,671 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,395 (0)	11,106 (0)	0	0.00	422 (0)	2,936 (0)
1990	0	0.00	251 (0)	1,219 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,167 (0)	8,598 (0)	0	0.00	383 (0)	2,498 (0)
1991	0	0.00	338 (0)	1,791 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,246 (0)	10,364 (0)	0	0.00	429 (0)	2,811 (0)
1992	0	0.00	523 (0)	3,283 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,906 (0)	19,736 (0)	0	0.00	846 (0)	5,746 (0)
1993	0	0.00	345 (0)	1,831 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,572 (0)	16,403 (0)	0	0.00	899 (0)	7,497 (0)
1994	0	0.00	390 (0)	1,970 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,640 (0)	19,134 (0)	0	0.00	895 (0)	8,948 (0)
1995	0	0.00	370 (0)	1,811 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,501 (0)	17,396 (0)	0	0.00	742 (0)	8,011 (0)
1996	0	0.00	445 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,808 (0)	19,576 (0)	0	0.00	703 (0)	5,607 (0)
1997	0	0.00	603 (0)	2,793 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,731 (0)	19,990 (0)	0	0.00	654 (0)	5,719 (0)

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
1998	0	0.00	879 (0)	4,983 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,897 (0)	22,440 (0)	0	0.00	757 (0)	6,598 (0)
1999	0	0.00	1,157 (0)	7,919 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,442 (0)	28,056 (0)	0	0.00	937 (0)	8,775 (0)
2000	0	0.00	1,183 (0)	9,761 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,233 (0)	24,056 (0)	0	0.00	843 (0)	7,275 (0)
2001	0	0.00	1,035 (0)	8,268 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,093 (0)	24,695 (0)	0	0.00	798 (0)	7,364 (0)
2002	0	0.00	1,034 (0)	8,664 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,165 (0)	25,906 (0)	0	0.00	787 (0)	7,485 (0)
2003	0	0.00	1,156 (0)	9,498 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,328 (0)	25,573 (0)	0	0.00	920 (0)	8,029 (0)
2004	97	0.72	1,151 (2)	10,429 (2)	0	0.00	0 (0)	0 (0)	0	0.00	2,130 (0)	24,695 (0)	0	0.00	692 (0)	6,486 (0)
2005	119	0.58	958 (4)	8,372 (4)	0	0.00	0 (0)	0 (0)	0	0.00	1,992 (0)	22,721 (0)	0	0.00	657 (0)	6,422 (0)
2006	63	1.00	907 (1)	7,193 (1)	0	0.00	0 (0)	0 (0)	0	0.00	2,295 (0)	25,207 (0)	0	0.00	724 (0)	6,551 (0)
2007	0	0.00	934 (0)	7,302 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,245 (0)	24,782 (0)	0	0.00	755 (0)	6,773 (0)
2008	0	0.00	844 (0)	5,811 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,392 (0)	25,619 (0)	0	0.00	763 (0)	6,695 (0)
2009	198	0.79	825 (2)	5,603 (2)	0	0.00	0 (0)	0 (0)	0	0.00	2,428 (0)	26,727 (0)	0	0.00	813 (0)	7,343 (0)
2010	0	0.00	801 (0)	5,316 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,385 (0)	24,592 (0)	0	0.00	756 (0)	7,281 (0)
2011	0	0.00	970 (0)	7,101 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,530 (0)	26,143 (0)	0	0.00	786 (0)	7,159 (0)
2012	0	0.00	1,048 (0)	8,231 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,685 (0)	26,630 (0)	0	0.00	843 (0)	8,045 (0)
2013	24	1.00	689 (1)	3,725 (1)	0	0.00	0 (0)	0 (0)	0	0.00	2,357 (0)	23,384 (0)	0	0.00	637 (0)	6,432 (0)
2014	36	1.00	1,277 (1)	6,924 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,463 (0)	31,639 (0)	0	0.00	409 (0)	4,262 (0)
2015	0	0.00	1,405 (0)	7,527 (0)	0	0.00	0 (0)	0 (0)	3,665	1.00	3,613 (1)	31,347 (1)	0	0.00	425 (0)	4,143 (0)
2016	242	1.00	1,476 (1)	7,130 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,783 (0)	32,416 (0)	0	0.00	675 (0)	4,688 (0)
2017	18	0.90	1,416 (1)	7,266 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,447 (0)	30,176 (0)	0	0.00	548 (0)	4,237 (0)

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2018	4	0.87	1,444 (1)	7,803 (1)	0	0.00	0 (0)	0 (0)	1,575	1.00	3,364 (1)	26,387 (1)	0	0.00	529 (0)	4,377 (0)
2019	12	0.54	1,524 (1)	7,652 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,377 (0)	26,983 (0)	0	0.00	565 (0)	4,408 (0)
2020	0	0.00	1,450 (0)	7,356 (0)	0	0.00	0 (0)	0 (0)	444	1.00	3,469 (1)	30,352 (1)	0	0.00	603 (0)	4,356 (0)
2021	6	0.83	1,658 (1)	9,838 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,319 (0)	23,236 (0)	0	0.00	703 (0)	6,124 (0)
2022	229	0.51	1,510 (2)	8,175 (2)	0	0.00	0 (0)	0 (0)	35	0.91	3,289 (1)	20,410 (1)	0	0.00	657 (0)	4,769 (0)
2023	179	1.00	1,729 (1)	11,276 (1)	0	0.00	0 (0)	0 (0)	830	0.73	3,454 (3)	22,889 (3)	0	0.00	756 (0)	6,102 (0)
2024	0	0.00	1,711 (0)	11,570 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,221 (0)	21,008 (0)	0	0.00	722 (0)	6,285 (0)

Table 4C. Goldface Tilefish landings in numbers of fish (AB1) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Goldface Tilefish. No Goldface Tilefish were intercepted between 1981-2023.

	Cbt				Hbt				Priv				Shore			
Year	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp	AB1	CV	PSU	Trp
2024	69	0.96	608 (2)	7,707 (2)	0	0.00	0 (0)	0 (0)	0	0.00	1,092 (0)	9,041 (0)	0	0.00	722 (0)	6,285 (0)

Table 5A. Golden Tilefish discards in numbers of fish (B2) with associated coefficients of variation (CV; Dettloff et al. 2020) by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Tilefish.

	Cbt				Hbt				Priv				Shore			
Year	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1981	0	0.00	76 (0)	610 (0)	0	0.00	76 (0)	610 (0)	0	0.00	221 (0)	1,780 (0)	0	0.00	324 (0)	1,942 (0)
1982	0	0.00	76 (0)	597 (0)	0	0.00	76 (0)	597 (0)	0	0.00	467 (0)	3,773 (0)	0	0.00	538 (0)	3,727 (0)
1983	0	0.00	232 (0)	1,560 (0)	0	0.00	123 (0)	1,357 (0)	0	0.00	739 (0)	7,100 (0)	0	0.00	372 (0)	2,603 (0)
1984	0	0.00	190 (0)	1,668 (0)	0	0.00	116 (0)	1,518 (0)	0	0.00	752 (0)	5,588 (0)	0	0.00	377 (0)	2,906 (0)
1985	0	0.00	196 (0)	1,476 (0)	0	0.00	89 (0)	1,260 (0)	0	0.00	902 (0)	7,611 (0)	0	0.00	497 (0)	3,606 (0)
1986	0	0.00	426 (0)	2,672 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,754 (0)	14,258 (0)	0	0.00	424 (0)	2,082 (0)
1987	0	0.00	397 (0)	2,475 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,773 (0)	15,007 (0)	0	0.00	371 (0)	2,158 (0)
1988	0	0.00	389 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,865 (0)	15,264 (0)	0	0.00	601 (0)	3,609 (0)
1989	0	0.00	353 (0)	1,671 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,395 (0)	11,106 (0)	0	0.00	422 (0)	2,936 (0)
1990	0	0.00	251 (0)	1,219 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,167 (0)	8,598 (0)	0	0.00	383 (0)	2,498 (0)
1991	0	0.00	338 (0)	1,791 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,246 (0)	10,364 (0)	0	0.00	429 (0)	2,811 (0)
1992	0	0.00	523 (0)	3,283 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,906 (0)	19,736 (0)	0	0.00	846 (0)	5,746 (0)
1993	0	0.00	345 (0)	1,831 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,572 (0)	16,403 (0)	0	0.00	899 (0)	7,497 (0)
1994	0	0.00	390 (0)	1,970 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,640 (0)	19,134 (0)	0	0.00	895 (0)	8,948 (0)
1995	0	0.00	370 (0)	1,811 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,501 (0)	17,396 (0)	0	0.00	742 (0)	8,011 (0)
1996	0	0.00	445 (0)	2,012 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,808 (0)	19,576 (0)	0	0.00	703 (0)	5,607 (0)
1997	0	0.00	603 (0)	2,793 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,731 (0)	19,990 (0)	0	0.00	654 (0)	5,719 (0)

	Cbt				Hbt				Priv				Shore			
Year	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
1998	0	0.00	879 (0)	4,983 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,897 (0)	22,440 (0)	0	0.00	757 (0)	6,598 (0)
1999	0	0.00	1,157 (0)	7,919 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,442 (0)	28,056 (0)	0	0.00	937 (0)	8,775 (0)
2000	0	0.00	1,183 (0)	9,761 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,233 (0)	24,056 (0)	0	0.00	843 (0)	7,275 (0)
2001	0	0.00	1,035 (0)	8,268 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,093 (0)	24,695 (0)	0	0.00	798 (0)	7,364 (0)
2002	0	0.00	1,034 (0)	8,664 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,165 (0)	25,906 (0)	0	0.00	787 (0)	7,485 (0)
2003	0	0.00	1,156 (0)	9,498 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,328 (0)	25,573 (0)	0	0.00	920 (0)	8,029 (0)
2004	0	0.00	1,151 (0)	10,429 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,130 (0)	24,695 (0)	0	0.00	692 (0)	6,486 (0)
2005	0	0.00	958 (0)	8,372 (0)	0	0.00	0 (0)	0 (0)	0	0.00	1,992 (0)	22,721 (0)	0	0.00	657 (0)	6,422 (0)
2006	0	0.00	907 (0)	7,193 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,295 (0)	25,207 (0)	0	0.00	724 (0)	6,551 (0)
2007	0	0.00	934 (0)	7,302 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,245 (0)	24,782 (0)	0	0.00	755 (0)	6,773 (0)
2008	0	0.00	844 (0)	5,811 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,392 (0)	25,619 (0)	0	0.00	763 (0)	6,695 (0)
2009	0	0.00	825 (0)	5,603 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,428 (0)	26,727 (0)	0	0.00	813 (0)	7,343 (0)
2010	0	0.00	801 (0)	5,316 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,385 (0)	24,592 (0)	0	0.00	756 (0)	7,281 (0)
2011	0	0.00	970 (0)	7,101 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,530 (0)	26,143 (0)	0	0.00	786 (0)	7,159 (0)
2012	0	0.00	1,048 (0)	8,231 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,685 (0)	26,630 (0)	0	0.00	843 (0)	8,045 (0)
2013	0	0.00	689 (0)	3,725 (0)	0	0.00	0 (0)	0 (0)	0	0.00	2,357 (0)	23,384 (0)	0	0.00	637 (0)	6,432 (0)
2014	0	0.00	1,277 (0)	6,924 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,463 (0)	31,639 (0)	0	0.00	409 (0)	4,262 (0)
2015	0	0.00	1,405 (0)	7,527 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,613 (0)	31,347 (0)	139,471	1.00	425 (1)	4,143 (1)
2016	0	0.00	1,476 (0)	7,130 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,783 (0)	32,416 (0)	0	0.00	675 (0)	4,688 (0)
2017	0	0.00	1,416 (0)	7,266 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,447 (0)	30,176 (0)	0	0.00	548 (0)	4,237 (0)

	Cbt				Hbt				Priv				Shore			
Year	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp	B2	CV	PSU	Trp
2018	0	0.00	1,444 (0)	7,803 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,364 (0)	26,387 (0)	0	0.00	529 (0)	4,377 (0)
2019	0	0.00	1,524 (0)	7,652 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,377 (0)	26,983 (0)	0	0.00	565 (0)	4,408 (0)
2020	0	0.00	1,450 (0)	7,356 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,469 (0)	30,352 (0)	0	0.00	603 (0)	4,356 (0)
2021	14	1.00	1,658 (1)	9,838 (1)	0	0.00	0 (0)	0 (0)	0	0.00	3,319 (0)	23,236 (0)	0	0.00	703 (0)	6,124 (0)
2022	0	0.00	1,510 (0)	8,175 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,289 (0)	20,410 (0)	0	0.00	657 (0)	4,769 (0)
2023	0	0.00	1,729 (0)	11,276 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,454 (0)	22,889 (0)	0	0.00	756 (0)	6,102 (0)
2024	0	0.00	1,711 (0)	11,570 (0)	0	0.00	0 (0)	0 (0)	0	0.00	3,221 (0)	21,008 (0)	0	0.00	722 (0)	6,285 (0)

Table 6A. Golden Tilefish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Golden Tilefish.

	AB1				B2			
Year	Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	0	0.00	621 (0)	4,332 (0)	0	0.00	621 (0)	4,332 (0)
1982	0	0.00	1,081 (0)	8,097 (0)	0	0.00	1,081 (0)	8,097 (0)
1983	0	0.00	1,242 (0)	11,263 (0)	0	0.00	1,242 (0)	11,263 (0)
1984	0	0.00	1,253 (0)	10,162 (0)	0	0.00	1,253 (0)	10,162 (0)
1985	0	0.00	1,495 (0)	12,693 (0)	0	0.00	1,495 (0)	12,693 (0)
1986	0	0.00	2,492 (0)	19,012 (0)	0	0.00	2,492 (0)	19,012 (0)
1987	428	1.00	2,415 (1)	19,640 (2)	0	0.00	2,415 (0)	19,640 (0)
1988	0	0.00	2,728 (0)	20,885 (0)	0	0.00	2,728 (0)	20,885 (0)
1989	0	0.00	2,031 (0)	15,713 (0)	0	0.00	2,031 (0)	15,713 (0)
1990	485	0.78	1,696 (2)	12,315 (2)	0	0.00	1,696 (0)	12,315 (0)
1991	0	0.00	1,868 (0)	14,966 (0)	0	0.00	1,868 (0)	14,966 (0)
1992	0	0.00	3,115 (0)	28,765 (0)	0	0.00	3,115 (0)	28,765 (0)
1993	0	0.00	2,661 (0)	25,731 (0)	0	0.00	2,661 (0)	25,731 (0)
1994	0	0.00	2,736 (0)	30,052 (0)	0	0.00	2,736 (0)	30,052 (0)
1995	0	0.00	2,429 (0)	27,218 (0)	0	0.00	2,429 (0)	27,218 (0)
1996	0	0.00	2,737 (0)	27,195 (0)	0	0.00	2,737 (0)	27,195 (0)
1997	0	0.00	2,765 (0)	28,502 (0)	0	0.00	2,765 (0)	28,502 (0)
1998	0	0.00	3,295 (0)	34,021 (0)	0	0.00	3,295 (0)	34,021 (0)
1999	0	0.00	4,247 (0)	44,750 (0)	0	0.00	4,247 (0)	44,750 (0)
2000	0	0.00	3,968 (0)	41,085 (0)	0	0.00	3,968 (0)	41,085 (0)
2001	0	0.00	3,634 (0)	40,327 (0)	0	0.00	3,634 (0)	40,327 (0)
2002	0	0.00	3,720 (0)	42,055 (0)	0	0.00	3,720 (0)	42,055 (0)
2003	0	0.00	4,127 (0)	43,100 (0)	0	0.00	4,127 (0)	43,100 (0)
2004	0	0.00	3,678 (0)	41,610 (0)	0	0.00	3,678 (0)	41,610 (0)
2005	1,063	1.00	3,316 (1)	37,515 (1)	0	0.00	3,316 (0)	37,515 (0)
2006	0	0.00	3,592 (0)	38,951 (0)	0	0.00	3,592 (0)	38,951 (0)
2007	0	0.00	3,614 (0)	38,857 (0)	0	0.00	3,614 (0)	38,857 (0)
2008	141	1.00	3,690 (1)	38,125 (1)	0	0.00	3,690 (0)	38,125 (0)
2009	0	0.00	3,766 (0)	39,673 (0)	0	0.00	3,766 (0)	39,673 (0)
2010	0	0.00	3,632 (0)	37,189 (0)	0	0.00	3,632 (0)	37,189 (0)
2011	0	0.00	3,951 (0)	40,403 (0)	0	0.00	3,951 (0)	40,403 (0)
2012	97	1.00	4,231 (1)	42,906 (2)	0	0.00	4,231 (0)	42,906 (0)

	AB1				B2			
Year	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2013	1,988	1.00	3,369 (2)	33,541 (2)	0	0.00	3,369 (0)	33,541 (0)
2014	9,774	0.91	4,450 (3)	42,825 (3)	0	0.00	4,450 (0)	42,825 (0)
2015	20,360	0.67	4,702 (8)	43,017 (11)	139,471	1.00	4,702 (1)	43,017 (1)
2016	9,163	0.83	5,184 (5)	44,234 (6)	0	0.00	5,184 (0)	44,234 (0)
2017	241	0.52	4,653 (5)	41,679 (5)	0	0.00	4,653 (0)	41,679 (0)
2018	8,862	0.76	4,541 (9)	38,567 (11)	0	0.00	4,541 (0)	38,567 (0)
2019	408	0.31	4,615 (10)	39,043 (11)	0	0.00	4,615 (0)	39,043 (0)
2020	17,052	0.79	4,759 (17)	42,064 (21)	0	0.00	4,759 (0)	42,064 (0)
2021	61,795	0.93	4,852 (20)	39,198 (20)	14	1.00	4,852 (1)	39,198 (1)
2022	3,056	0.58	4,669 (10)	33,354 (11)	0	0.00	4,669 (0)	33,354 (0)
2023	637	0.45	5,084 (16)	40,267 (17)	0	0.00	5,084 (0)	40,267 (0)
2024	2,561	0.68	4,853 (8)	38,863 (8)	0	0.00	4,853 (0)	38,863 (0)

Table 6B. Blueline Tilefish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Blueline Tilefish.

	AB1				B2			
Year	Total	CV	PSU	Trp	Total	CV	PSU	Trp
1981	0	0.00	621 (0)	4,332 (0)	0	0.00	621 (0)	4,332 (0)
1982	0	0.00	1,081 (0)	8,097 (0)	0	0.00	1,081 (0)	8,097 (0)
1983	0	0.00	1,242 (0)	11,263 (0)	0	0.00	1,242 (0)	11,263 (0)
1984	0	0.00	1,253 (0)	10,162 (0)	0	0.00	1,253 (0)	10,162 (0)
1985	0	0.00	1,495 (0)	12,693 (0)	0	0.00	1,495 (0)	12,693 (0)
1986	0	0.00	2,492 (0)	19,012 (0)	0	0.00	2,492 (0)	19,012 (0)
1987	0	0.00	2,415 (0)	19,640 (0)	0	0.00	2,415 (0)	19,640 (0)
1988	0	0.00	2,728 (0)	20,885 (0)	0	0.00	2,728 (0)	20,885 (0)
1989	0	0.00	2,031 (0)	15,713 (0)	0	0.00	2,031 (0)	15,713 (0)
1990	0	0.00	1,696 (0)	12,315 (0)	0	0.00	1,696 (0)	12,315 (0)
1991	0	0.00	1,868 (0)	14,966 (0)	0	0.00	1,868 (0)	14,966 (0)
1992	0	0.00	3,115 (0)	28,765 (0)	0	0.00	3,115 (0)	28,765 (0)
1993	0	0.00	2,661 (0)	25,731 (0)	0	0.00	2,661 (0)	25,731 (0)
1994	0	0.00	2,736 (0)	30,052 (0)	0	0.00	2,736 (0)	30,052 (0)
1995	0	0.00	2,429 (0)	27,218 (0)	0	0.00	2,429 (0)	27,218 (0)
1996	0	0.00	2,737 (0)	27,195 (0)	0	0.00	2,737 (0)	27,195 (0)
1997	0	0.00	2,765 (0)	28,502 (0)	0	0.00	2,765 (0)	28,502 (0)
1998	0	0.00	3,295 (0)	34,021 (0)	0	0.00	3,295 (0)	34,021 (0)
1999	0	0.00	4,247 (0)	44,750 (0)	0	0.00	4,247 (0)	44,750 (0)
2000	0	0.00	3,968 (0)	41,085 (0)	0	0.00	3,968 (0)	41,085 (0)
2001	0	0.00	3,634 (0)	40,327 (0)	0	0.00	3,634 (0)	40,327 (0)
2002	0	0.00	3,720 (0)	42,055 (0)	0	0.00	3,720 (0)	42,055 (0)
2003	0	0.00	4,127 (0)	43,100 (0)	0	0.00	4,127 (0)	43,100 (0)
2004	97	0.72	3,678 (2)	41,610 (2)	0	0.00	3,678 (0)	41,610 (0)
2005	119	0.58	3,316 (4)	37,515 (4)	0	0.00	3,316 (0)	37,515 (0)
2006	63	1.00	3,592 (1)	38,951 (1)	0	0.00	3,592 (0)	38,951 (0)
2007	0	0.00	3,614 (0)	38,857 (0)	0	0.00	3,614 (0)	38,857 (0)
2008	0	0.00	3,690 (0)	38,125 (0)	0	0.00	3,690 (0)	38,125 (0)
2009	198	0.79	3,766 (2)	39,673 (2)	0	0.00	3,766 (0)	39,673 (0)
2010	0	0.00	3,632 (0)	37,189 (0)	0	0.00	3,632 (0)	37,189 (0)
2011	0	0.00	3,951 (0)	40,403 (0)	0	0.00	3,951 (0)	40,403 (0)
2012	0	0.00	4,231 (0)	42,906 (0)	0	0.00	4,231 (0)	42,906 (0)

	AB1				B2			
Year	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2013	24	1.00	3,369 (1)	33,541 (1)	0	0.00	3,369 (0)	33,541 (0)
2014	36	1.00	4,450 (1)	42,825 (1)	0	0.00	4,450 (0)	42,825 (0)
2015	3,665	1.00	4,702 (1)	43,017 (1)	0	0.00	4,702 (0)	43,017 (0)
2016	242	1.00	5,184 (1)	44,234 (1)	0	0.00	5,184 (0)	44,234 (0)
2017	18	0.90	4,653 (1)	41,679 (1)	0	0.00	4,653 (0)	41,679 (0)
2018	1,579	1.00	4,541 (2)	38,567 (2)	0	0.00	4,541 (0)	38,567 (0)
2019	12	0.54	4,615 (1)	39,043 (1)	0	0.00	4,615 (0)	39,043 (0)
2020	444	1.00	4,759 (1)	42,064 (1)	0	0.00	4,759 (0)	42,064 (0)
2021	6	0.83	4,852 (1)	39,198 (1)	0	0.00	4,852 (0)	39,198 (0)
2022	264	0.46	4,669 (3)	33,354 (3)	0	0.00	4,669 (0)	33,354 (0)
2023	1,009	0.62	5,084 (4)	40,267 (4)	0	0.00	5,084 (0)	40,267 (0)
2024	0	0.00	4,853 (0)	38,863 (0)	0	0.00	4,853 (0)	38,863 (0)

Table 6C. Goldface Tilefish landings (AB1) and discards (B2), in numbers of fish, with associated coefficients of variation (CV; Dettloff et al. 2020) by year for all modes combined from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Goldface Tilefish. No Goldface Tilefish were sampled by MRIP between 1981-2023.

	AB1				B2			
Year	Total	CV	PSU	Trp	Total	CV	PSU	Trp
2024	69	0.96	2,422 (2)	23,033 (2)	0	0.00	2,422 (0)	23,033 (0)

Table 7A. Golden Tilefish landings in pounds gutted weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Tilefish. Whole weight estimates for Tilefish were converted to gutted weight by dividing whole weight by 1.065.

	Cbt		Priv		Total	
Year	LBS	CV	LBS	CV	LBS	CV
1981	0	0.00	0	0.00	0	0.00
1982	0	0.00	0	0.00	0	0.00
1983	0	0.00	0	0.00	0	0.00
1984	0	0.00	0	0.00	0	0.00
1985	0	0.00	0	0.00	0	0.00
1986	0	0.00	0	0.00	0	0.00
1987	2,575	1.00	0	0.00	2,575	1.00
1988	0	0.00	0	0.00	0	0.00
1989	0	0.00	0	0.00	0	0.00
1990	2,924	0.79	0	0.00	2,924	0.79
1991	0	0.00	0	0.00	0	0.00
1992	0	0.00	0	0.00	0	0.00
1993	0	0.00	0	0.00	0	0.00
1994	0	0.00	0	0.00	0	0.00
1995	0	0.00	0	0.00	0	0.00
1996	0	0.00	0	0.00	0	0.00
1997	0	0.00	0	0.00	0	0.00
1998	0	0.00	0	0.00	0	0.00
1999	0	0.00	0	0.00	0	0.00
2000	0	0.00	0	0.00	0	0.00
2001	0	0.00	0	0.00	0	0.00
2002	0	0.00	0	0.00	0	0.00
2003	0	0.00	0	0.00	0	0.00
2004	0	0.00	0	0.00	0	0.00
2005	0	0.00	6,404	1.00	6,404	1.00
2006	0	0.00	0	0.00	0	0.00
2007	0	0.00	0	0.00	0	0.00
2008	847	1.00	0	0.00	847	1.00
2009	0	0.00	0	0.00	0	0.00
2010	0	0.00	0	0.00	0	0.00
2011	0	0.00	0	0.00	0	0.00

	Cbt		Priv		Total	
Year	LBS	CV	LBS	CV	LBS	CV
2012	585	1.00	0	0.00	585	1.00
2013	0	0.00	11,977	1.00	11,977	1.00
2014	294	1.00	47,961	0.91	48,255	0.91
2015	2,705	0.93	218,562	0.70	221,268	0.69
2016	187	0.45	55,009	0.86	55,195	0.85
2017	6	1.00	1,446	0.53	1,452	0.52
2018	476	0.38	52,904	0.77	53,380	0.77
2019	416	0.47	2,042	0.35	2,458	0.31
2020	2,128	0.37	100,588	0.84	102,716	0.83
2021	1,987	0.73	370,256	0.93	372,243	0.93
2022	10,027	0.96	8,382	0.53	18,409	0.61
2023	771	0.58	2,905	0.56	3,676	0.61
2024	482	0.46	14,947	0.75	15,429	0.74

Table 7B. Blueline Tilefish landings in pounds gutted weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Blueline Tilefish. Whole weight estimates for Blueline Tilefish were converted to gutted weight using a WWT:GWT ratio of 0.94.

	Cbt		Priv		Total	
Year	LBS	CV	LBS	CV	LBS	CV
1981	0	0.00	0	0.00	0	0.00
1982	0	0.00	0	0.00	0	0.00
1983	0	0.00	0	0.00	0	0.00
1984	0	0.00	0	0.00	0	0.00
1985	0	0.00	0	0.00	0	0.00
1986	0	0.00	0	0.00	0	0.00
1987	0	0.00	0	0.00	0	0.00
1988	0	0.00	0	0.00	0	0.00
1989	0	0.00	0	0.00	0	0.00
1990	0	0.00	0	0.00	0	0.00
1991	0	0.00	0	0.00	0	0.00
1992	0	0.00	0	0.00	0	0.00
1993	0	0.00	0	0.00	0	0.00
1994	0	0.00	0	0.00	0	0.00
1995	0	0.00	0	0.00	0	0.00
1996	0	0.00	0	0.00	0	0.00
1997	0	0.00	0	0.00	0	0.00
1998	0	0.00	0	0.00	0	0.00
1999	0	0.00	0	0.00	0	0.00
2000	0	0.00	0	0.00	0	0.00
2001	0	0.00	0	0.00	0	0.00
2002	0	0.00	0	0.00	0	0.00
2003	0	0.00	0	0.00	0	0.00
2004	427	0.72	0	0.00	427	0.72
2005	617	0.62	0	0.00	617	0.62
2006	277	1.00	0	0.00	277	1.00
2007	0	0.00	0	0.00	0	0.00
2008	0	0.00	0	0.00	0	0.00
2009	872	0.79	0	0.00	872	0.79
2010	0	0.00	0	0.00	0	0.00

	Cbt		Priv		Total	
Year	LBS	CV	LBS	CV	LBS	CV
2011	0	0.00	0	0.00	0	0.00
2012	0	0.00	0	0.00	0	0.00
2013	107	1.00	0	0.00	107	1.00
2014	175	1.00	0	0.00	175	1.00
2015	0	0.00	13,808	1.00	13,808	1.00
2016	1,064	1.00	0	0.00	1,064	1.00
2017	71	0.90	0	0.00	71	0.90
2018	13	0.87	4,935	1.00	4,948	1.00
2019	53	0.54	0	0.00	53	0.54
2020	0	0.00	1,951	1.00	1,951	1.00
2021	26	0.83	0	0.00	26	0.83
2022	787	0.51	120	0.91	907	0.46
2023	767	1.00	3,553	0.73	4,320	0.63
2024	0	0.00	0	0.00	0	0.00

Table 7C. Goldface Tilefish landings in pounds gutted weight (LBS) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Sample size is provided both as the total number of primary sampling units (PSU) and angler trips (TRP) intercepted by dockside samplers and, in parentheses, the number of PSUs and TRPs that intercepted Goldface Tilefish. Whole weight estimates for Goldface Tilefish were converted to gutted weight using a WWT:GWT ratio of 1.12. No Goldface Tilefish were intercepted between 1981-2023.

	Cbt		Total	
Year	LBS	CV	LBS	CV
2024	146	0.96	146	0.96

Table 8A. Summary of weight measurements (pounds whole weight) from MRIP-intercepted **Golden Tilefish** by mode and year. Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights.

	Cbt					Priv				
Year	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1986	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1987	4 (2)	4.1	4.7	1.2	6.4	0 (0)	0.0	0.0	0.0	0.0
1988	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1989	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1990	2 (2)	5.7	6.8	1.6	7.9	0 (0)	0.0	0.0	0.0	0.0
1991	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1993	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1994	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1995	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1997	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1998	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1999	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2000	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2001	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2002	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2003	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2004	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2005	0 (0)	0.0	0.0	0.0	0.0	1 (1)	10.1	10.1	0.0	10.1
2006	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2007	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2008	1 (1)	1.3	1.3	0.0	1.3	0 (0)	0.0	0.0	0.0	0.0
2009	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2010	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2011	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2012	3 (2)	1.8	4.3	2.2	5.5	0 (0)	0.0	0.0	0.0	0.0

	Cbt					Priv				
Year	**N**	**Min**	**Avg**	**SD**	**Max**	**N**	**Min**	**Avg**	**SD**	**Max**
2013	0 (0)	0.0	0.0	0.0	0.0	1 (1)	5.5	5.5	0.0	5.5
2014	2 (1)	1.0	1.9	1.2	2.7	13 (1)	2.7	3.6	1.2	7.2
2015	4 (4)	1.0	13.7	10.4	26.5	9 (2)	3.1	13.6	10.7	28.7
2016	0 (0)	0.0	0.0	0.0	0.0	10 (2)	1.7	6.3	6.6	24.4
2017	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2018	0 (0)	0.0	0.0	0.0	0.0	4 (4)	1.9	2.3	0.5	3.1
2019	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2020	1 (1)	0.4	0.4	0.0	0.4	5 (3)	0.4	10.2	8.9	16.8
2021	8 (3)	0.4	5.2	5.1	16.8	6 (1)	1.8	3.2	1.2	4.4
2022	5 (1)	1.8	4.0	2.4	7.5	2 (1)	1.7	1.7	0.0	1.7
2023	3 (2)	1.2	4.3	3.4	7.9	0 (0)	0.0	0.0	0.0	0.0
2024	0 (0)	0.0	0.0	0.0	0.0	3 (2)	1.2	5.2	3.5	7.9

Table 8B. Summary of weight measurements (pounds whole weight) from MRIP-intercepted **Blueline Tilefish** by mode and year. Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights.

	Cbt					Priv				
Year	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
1981	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1986	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1987	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1988	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1989	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1990	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1991	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1993	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1994	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1995	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1997	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1998	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
1999	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2000	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2001	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2002	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2003	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2004	2 (2)	9.1	10.2	1.5	11.2	0 (0)	0.0	0.0	0.0	0.0
2005	5 (4)	2.2	5.6	3.6	11.2	0 (0)	0.0	0.0	0.0	0.0
2006	2 (1)	7.2	7.3	0.2	7.5	0 (0)	0.0	0.0	0.0	0.0
2007	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2008	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2009	2 (2)	2.1	2.4	0.4	2.7	0 (0)	0.0	0.0	0.0	0.0
2010	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2011	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2012	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0

	Cbt					Priv				
Year	N	Min	Avg	SD	Max	N	Min	Avg	SD	Max
2013	1 (1)	2.4	2.4	0.0	2.4	0 (0)	0.0	0.0	0.0	0.0
2014	2 (1)	3.0	4.3	1.8	5.6	0 (0)	0.0	0.0	0.0	0.0
2015	0 (0)	0.0	0.0	0.0	0.0	2 (1)	8.4	9.3	1.2	10.1
2016	1 (1)	9.8	9.8	0.0	9.8	0 (0)	0.0	0.0	0.0	0.0
2017	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2018	0 (0)	0.0	0.0	0.0	0.0	1 (1)	0.4	0.4	0.0	0.4
2019	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2020	0 (0)	0.0	0.0	0.0	0.0	2 (1)	2.1	2.1	0.0	2.1
2021	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0
2022	1 (1)	3.6	3.6	0.0	3.6	0 (0)	0.0	0.0	0.0	0.0
2023	3 (1)	2.2	3.0	0.7	3.6	0 (0)	0.0	0.0	0.0	0.0
2024	0 (0)	0.0	0.0	0.0	0.0	0 (0)	0.0	0.0	0.0	0.0

Table 8C. Summary of weight measurements (pounds whole weight) from MRIP-intercepted Goldface Tilefish by mode and year. Summaries include the number of fish weighed by MRIP and, in parentheses, the number of angler trips from which those fish were weighed (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. Summaries include observed and imputed weights. No Goldface Tilefish were sampled from 1981-2023.

	Cbt				
Year	N	Min	Avg	SD	Max
2024	2 (2)	1.9	2.8	1.3	3.7

Table 9A. Summary of weight measurements (pounds whole weight) from MRIP-intercepted **Golden Tilefish** by year. Summaries include the number of fish for which size information was collected by MRIP and, in parentheses, the number of angler trips from which those fish were sampled (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights.

	Weight				
Year	**N**	**Min**	**Avg**	**SD**	**Max**
1981	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0
1986	0 (0)	0.0	0.0	0.0	0.0
1987	4 (2)	4.1	4.7	1.2	6.4
1988	0 (0)	0.0	0.0	0.0	0.0
1989	0 (0)	0.0	0.0	0.0	0.0
1990	2 (2)	5.7	6.8	1.6	7.9
1991	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0
1993	0 (0)	0.0	0.0	0.0	0.0
1994	0 (0)	0.0	0.0	0.0	0.0
1995	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0
1997	0 (0)	0.0	0.0	0.0	0.0
1998	0 (0)	0.0	0.0	0.0	0.0
1999	0 (0)	0.0	0.0	0.0	0.0
2000	0 (0)	0.0	0.0	0.0	0.0
2001	0 (0)	0.0	0.0	0.0	0.0
2002	0 (0)	0.0	0.0	0.0	0.0
2003	0 (0)	0.0	0.0	0.0	0.0
2004	0 (0)	0.0	0.0	0.0	0.0
2005	1 (1)	10.1	10.1	0.0	10.1
2006	0 (0)	0.0	0.0	0.0	0.0
2007	0 (0)	0.0	0.0	0.0	0.0
2008	1 (1)	1.3	1.3	0.0	1.3
2009	0 (0)	0.0	0.0	0.0	0.0
2010	0 (0)	0.0	0.0	0.0	0.0
2011	0 (0)	0.0	0.0	0.0	0.0

	Weight				
Year	**N**	**Min**	**Avg**	**SD**	**Max**
2012	3 (2)	1.8	4.3	2.2	5.5
2013	1 (1)	5.5	5.5	0.0	5.5
2014	15 (2)	1.0	3.3	1.3	7.2
2015	13 (6)	1.0	13.6	10.2	28.7
2016	10 (2)	1.7	6.3	6.6	24.4
2017	0 (0)	0.0	0.0	0.0	0.0
2018	4 (4)	1.9	2.3	0.5	3.1
2019	0 (0)	0.0	0.0	0.0	0.0
2020	6 (4)	0.4	8.6	8.9	16.8
2021	14 (4)	0.4	4.3	4.0	16.8
2022	7 (2)	1.7	3.3	2.2	7.5
2023	3 (2)	1.2	4.3	3.4	7.9
2024	3 (2)	1.2	5.2	3.5	7.9

Table 9B. Summary of weight measurements (pounds whole weight) from MRIP-intercepted **Blueline Tilefish** by year. Summaries include the number of fish for which size information was collected by MRIP and, in parentheses, the number of angler trips from which those fish were sampled (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights.

	Weight				
Year	**N**	**Min**	**Avg**	**SD**	**Max**
1981	0 (0)	0.0	0.0	0.0	0.0
1982	0 (0)	0.0	0.0	0.0	0.0
1983	0 (0)	0.0	0.0	0.0	0.0
1984	0 (0)	0.0	0.0	0.0	0.0
1985	0 (0)	0.0	0.0	0.0	0.0
1986	0 (0)	0.0	0.0	0.0	0.0
1987	0 (0)	0.0	0.0	0.0	0.0
1988	0 (0)	0.0	0.0	0.0	0.0
1989	0 (0)	0.0	0.0	0.0	0.0
1990	0 (0)	0.0	0.0	0.0	0.0
1991	0 (0)	0.0	0.0	0.0	0.0
1992	0 (0)	0.0	0.0	0.0	0.0
1993	0 (0)	0.0	0.0	0.0	0.0
1994	0 (0)	0.0	0.0	0.0	0.0
1995	0 (0)	0.0	0.0	0.0	0.0
1996	0 (0)	0.0	0.0	0.0	0.0
1997	0 (0)	0.0	0.0	0.0	0.0
1998	0 (0)	0.0	0.0	0.0	0.0
1999	0 (0)	0.0	0.0	0.0	0.0
2000	0 (0)	0.0	0.0	0.0	0.0
2001	0 (0)	0.0	0.0	0.0	0.0
2002	0 (0)	0.0	0.0	0.0	0.0
2003	0 (0)	0.0	0.0	0.0	0.0
2004	2 (2)	9.1	10.2	1.5	11.2
2005	5 (4)	2.2	5.6	3.6	11.2
2006	2 (1)	7.2	7.3	0.2	7.5
2007	0 (0)	0.0	0.0	0.0	0.0
2008	0 (0)	0.0	0.0	0.0	0.0
2009	2 (2)	2.1	2.4	0.4	2.7
2010	0 (0)	0.0	0.0	0.0	0.0
2011	0 (0)	0.0	0.0	0.0	0.0
2012	0 (0)	0.0	0.0	0.0	0.0

	Weight				
Year	**N**	**Min**	**Avg**	**SD**	**Max**
2013	1 (1)	2.4	2.4	0.0	2.4
2014	2 (1)	3.0	4.3	1.8	5.6
2015	2 (1)	8.4	9.3	1.2	10.1
2016	1 (1)	9.8	9.8	0.0	9.8
2017	0 (0)	0.0	0.0	0.0	0.0
2018	1 (1)	0.4	0.4	0.0	0.4
2019	0 (0)	0.0	0.0	0.0	0.0
2020	2 (1)	2.1	2.1	0.0	2.1
2021	0 (0)	0.0	0.0	0.0	0.0
2022	1 (1)	3.6	3.6	0.0	3.6
2023	3 (1)	2.2	3.0	0.7	3.6
2024	0 (0)	0.0	0.0	0.0	0.0

Table 9C. Summary of weight measurements (pounds whole weight) from MRIP-intercepted **Goldface Tilefish** by year. Summaries include the number of fish for which size information was collected by MRIP and, in parentheses, the number of angler trips from which those fish were sampled (N), and the minimum (Min), arithmetic mean (Avg), standard deviation (SD), and maximum (Max) size of fish weights. No Goldface Tilefish were sampled from 1981-2023.

	Cbt				
Year	N	Min	Avg	SD	Max
2024	2 (2)	1.9	2.8	1.3	3.7

Table 10A. Estimated average weights of landed **Golden Tilefish** in pounds gutted weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (gutted, Table 7) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected.

	Cbt			Priv			Total			Shore		
Year	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981												
1982												
1983												
1984												
1985												
1986												
1987	6.02	0.12	2 (4)				6.02	0.12	2 (4)			
1988												
1989												
1990	6.02	0.17	2 (2)				6.02	0.17	2 (2)			
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999												
2000												
2001												
2002												
2003												
2004												
2005				6.02	0.00	1 (1)	6.02	0.00	1 (1)			
2006												
2007												
2008	6.02	0.00	1 (1)				6.02	0.00	1 (1)			
2009												
2010												

	Cbt			Priv			Total			Shore		
Year	WGT	CV	N	WGT	CV	N	WGT	CV	N	WGT	CV	N
2011												
2012	6.02	0.29	2 (3)				6.02	0.29	2 (3)			
2013				6.02	0.00	1 (1)	6.02	0.00	1 (1)			
2014	4.61	0.45	1 (2)	4.94	0.09	1 (13)	4.94	0.10	2 (15)			
2015	10.87	0.38	4 (4)	10.87	0.26	2 (9)	10.87	0.21	6 (13)			
2016				6.02	0.33	2 (10)	6.02	0.33	2 (10)			
2017												
2018				6.02	0.11	4 (4)	6.02	0.11	4 (4)			
2019												
2020	6.02	0.00	1 (1)	6.02	0.39	3 (5)	6.02	0.42	4 (6)			
2021	6.02	0.34	3 (8)	6.02	0.15	1 (6)	6.02	0.24	4 (14)			
2022	6.02	0.27	1 (5)	6.02	0.00	1 (2)	6.02	0.26	2 (7)			
2023	5.77	0.45	2 (3)				5.77	0.45	2 (3)			
2024				6.02	0.39	2 (3)	6.02	0.39	2 (3)			

Table 10B. Estimated average weights of landed **Blueline Tilefish** in pounds gutted weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (gutted, Table 7) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected.

	Cbt			Priv			Total		
Year	WGT	CV	N	WGT	CV	N	WGT	CV	N
1981									
1982									
1983									
1984									
1985									
1986									
1987									
1988									
1989									
1990									
1991									
1992									
1993									
1994									
1995									
1996									
1997									
1998									
1999									
2000									
2001									
2002									
2003									
2004	4.40	0.11	2 (2)				4.40	0.11	2 (2)
2005	5.18	0.28	4 (5)				5.18	0.28	4 (5)
2006	4.40	0.02	1 (2)				4.40	0.02	1 (2)
2007									
2008									
2009	4.40	0.13	2 (2)				4.40	0.13	2 (2)
2010									

	Cbt			Priv			Total		
Year	WGT	CV	N	WGT	CV	N	WGT	CV	N
2011									
2012									
2013	4.40	0.00	1 (1)				4.40	0.00	1 (1)
2014	4.90	0.30	1 (2)				4.90	0.30	1 (2)
2015				3.77	0.10	1 (2)	3.77	0.10	1 (2)
2016	4.40	0.00	1 (1)				4.40	0.00	1 (1)
2017									
2018				3.13	0.00	1 (1)	3.13	0.00	1 (1)
2019									
2020				4.40	0.00	1 (2)	4.40	0.00	1 (2)
2021									
2022	3.43	0.00	1 (1)				3.43	0.00	1 (1)
2023	4.28	0.13	1 (3)				4.28	0.13	1 (3)
2024									

Table 10C. Estimated average weights of landed **Goldface Tilefish** in pounds gutted weight (WGT) with associated coefficients of variation (CV; Approach 2 described in Nuttall and Dettloff 2022) by year and mode from all data sources (MRIP, LACreel 2014+, TPWD). Average weight estimates are calculated from annual estimates (by-mode) of landings-in-weight (gutted, Table 7) divided by estimates of landings-in-number (Table 2). Sample size (N) is provided as the total number of angler trips and, in parentheses, number of fish from which weight information was collected. No Goldface Tilefish were sampled from 1981-2023.

	Cbt			Total		
Year	WGT	CV	N	WGT	CV	N
2024	2.13	0.34	2 (2)	2.13	0.34	2 (2)

Table 11. Recreational Fishing Effort (in angler trips) for Gulf of America anglers by mode and year from all data sources (MRIP, LACreel 2014+, TPWD). These effort estimates depict all (general) recreational fishing activity in the Gulf of America and are not specific to Tilefish. Effort from the combined private-shore fishing mode in the LA Creel survey has been added to the private mode.

Year	Cbt	Priv	Total
1981	380,523	12,217,189	12,597,712
1982	553,144	12,190,401	12,743,544
1983	579,938	14,441,508	15,021,445
1984	538,563	13,987,249	14,525,812
1985	590,410	15,080,763	15,671,173
1986	566,657	14,587,739	15,154,396
1987	583,981	14,564,357	15,148,339
1988	513,682	17,004,167	17,517,849
1989	595,914	16,469,775	17,065,689
1990	582,368	17,519,384	18,101,752
1991	537,518	17,201,949	17,739,467
1992	562,458	17,780,312	18,342,769
1993	631,551	18,207,749	18,839,300
1994	673,526	18,672,590	19,346,116
1995	767,210	19,318,427	20,085,637
1996	726,006	19,318,537	20,044,542
1997	769,710	20,686,482	21,456,193
1998	765,060	22,196,180	22,961,240
1999	779,206	24,444,359	25,223,565
2000	760,488	24,024,272	24,784,760
2001	763,788	26,548,022	27,311,810
2002	742,415	25,802,816	26,545,231
2003	699,720	26,622,242	27,321,962
2004	780,766	29,916,938	30,697,704
2005	685,755	28,949,771	29,635,526
2006	817,416	26,857,005	27,674,422
2007	861,722	27,279,696	28,141,418
2008	810,000	29,549,560	30,359,560
2009	774,246	28,837,705	29,611,951
2010	595,284	29,906,126	30,501,410
2011	756,691	30,317,609	31,074,300
2012	939,221	31,617,139	32,556,360
2013	874,771	29,556,226	30,430,997

Year	Cbt	Priv	Total
2014	861,546	23,156,536	24,018,082
2015	991,258	21,963,379	22,954,637
2016	1,054,084	23,314,398	24,368,482
2017	1,086,377	24,202,279	25,288,626
2018	1,221,177	22,537,087	23,758,264
2019	1,293,471	19,969,876	21,263,347
2020	1,181,632	22,705,487	23,887,119
2021	1,348,910	20,881,868	22,230,778
2022	1,406,930	22,722,834	24,129,763
2023	1,643,394	22,361,161	24,004,555
2024	1,166,333	23,102,598	24,268,931

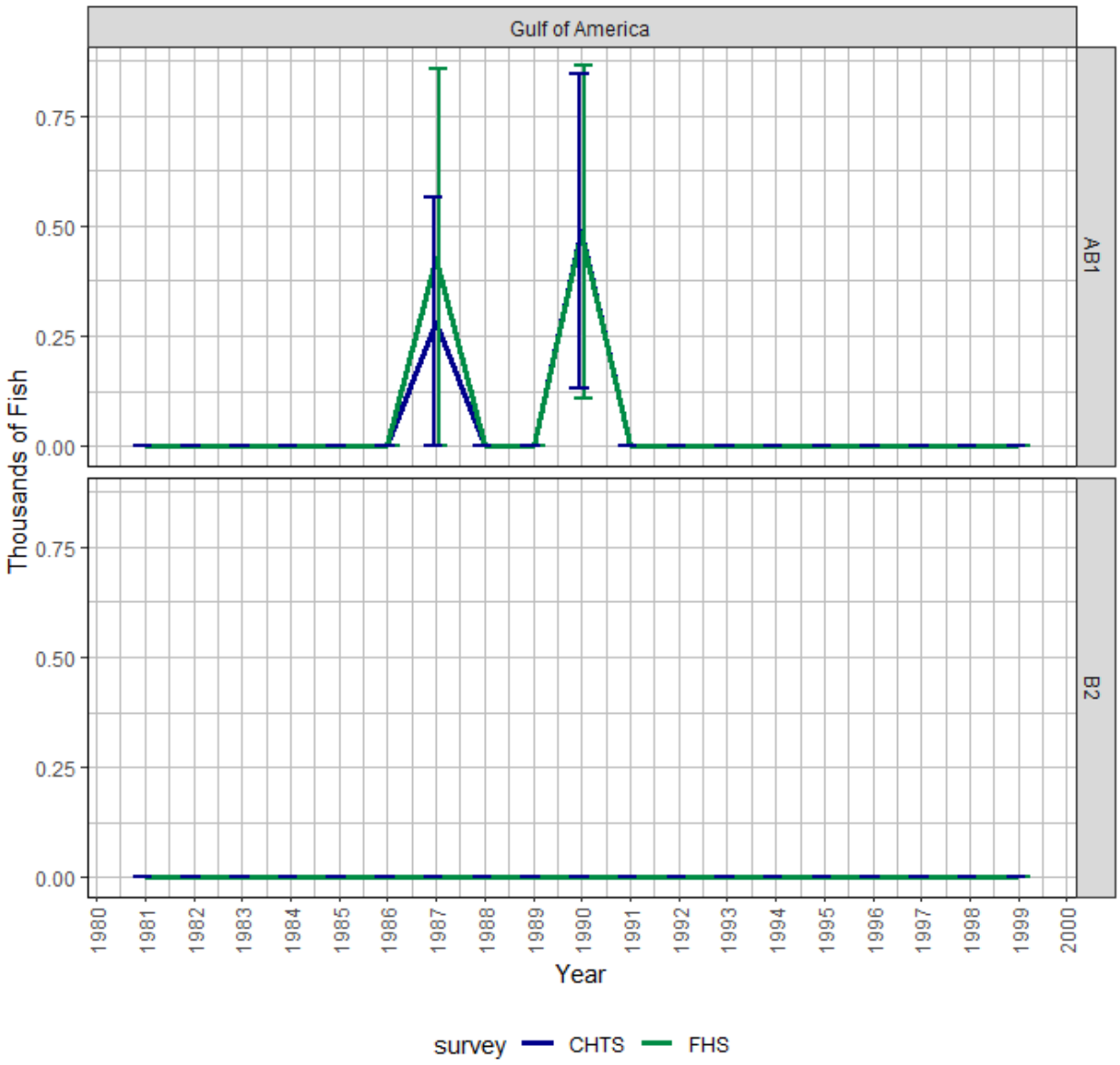


Figure 1. Comparison of MRIP charterboat landings (AB1) and discard (B2) estimates (with standard error intervals shown) **for Golden Tilefish** from the Coastal Household Telephone Survey (CHTS) and For-Hire Survey (FHS) from the Gulf of America between 1981 and 1999 (MRIP). The Charterboat calibration approach is discussed in Dettloff and Matter (2019a). There was no Blueline or Goldface Tilefish charter catch during this period.

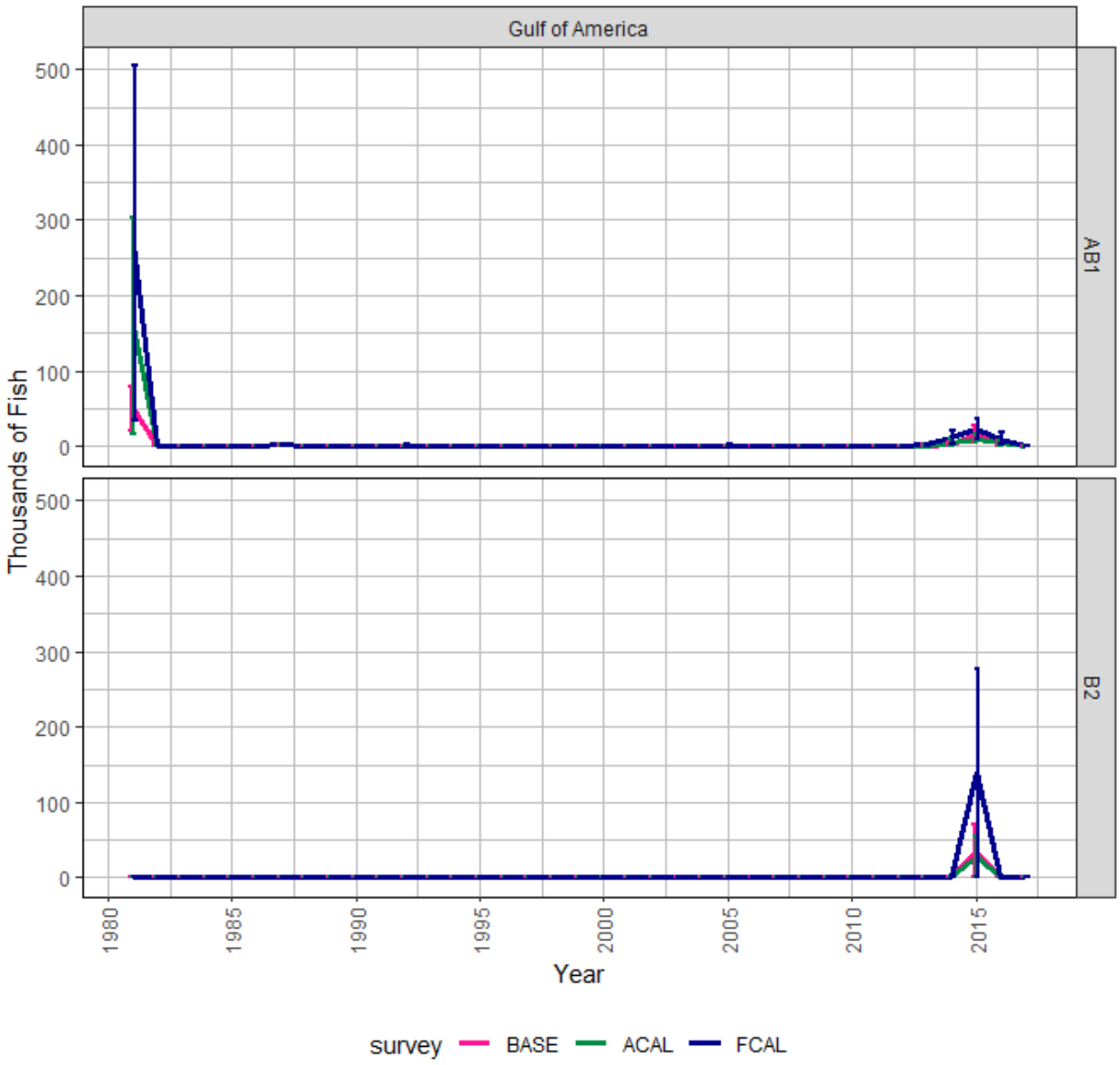


Figure 2A. MRIP Base (BASE), APAIS Calibrated (ACAL), and Fully Calibrated APAIS and FES (FCAL) estimates for **Golden Tilefish** in the Gulf of America between 1981 and 2017. Estimates in this figure include the Florida Keys as that domain is not separable from those used by the MRIP online comparison tool for the Gulf of America (NMFS pers comm). The Headboat mode is also included as uncertainty estimates for catch across multiple modes are only available when all modes are selected. The landings in 1981 are from two intercepts from the Florida Keys and are not included in SEFSC 01.

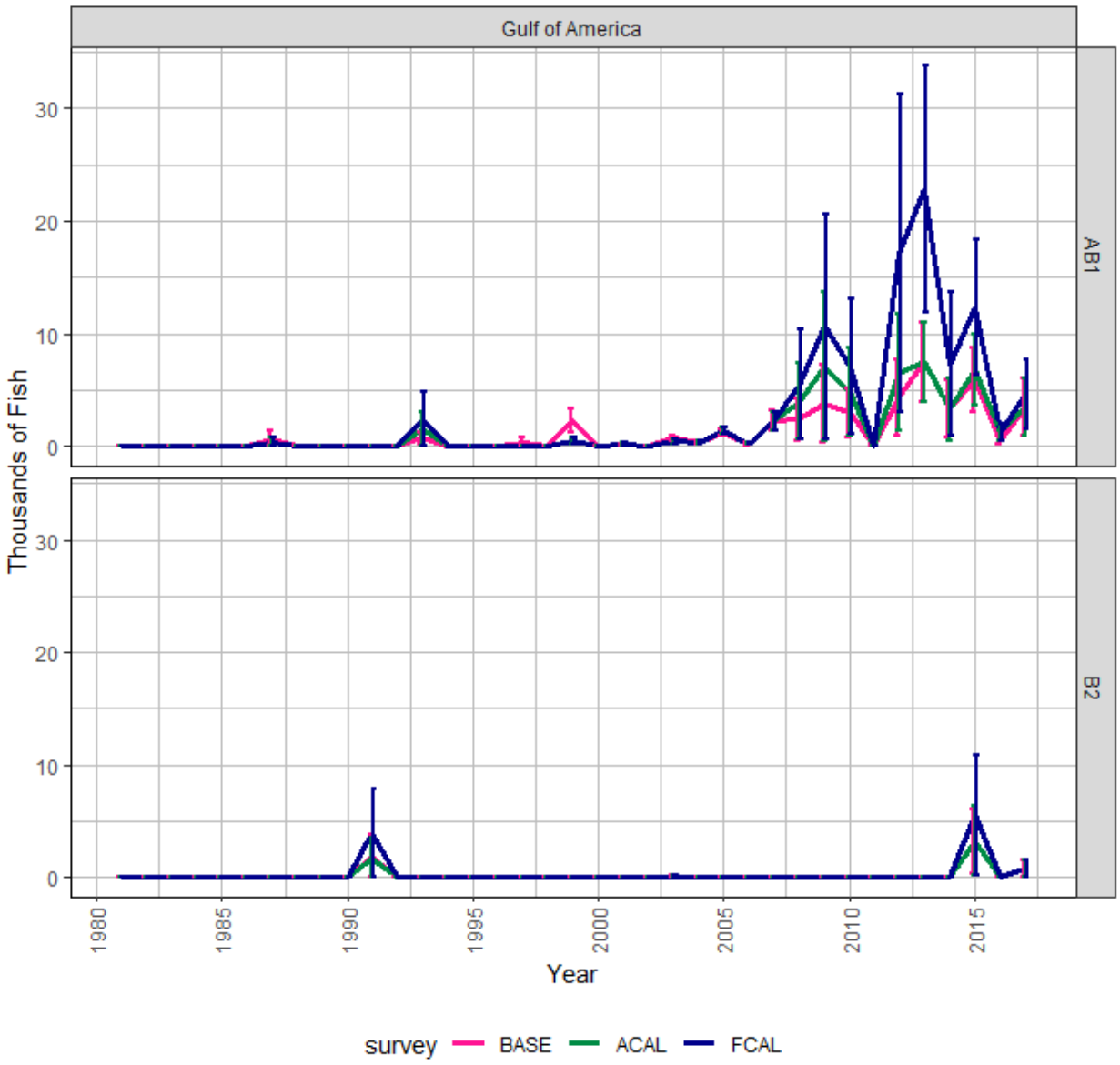


Figure 2B. MRIP Base (BASE), APAIS Calibrated (ACAL), and Fully Calibrated APAIS and FES (FCAL) estimates for **Blueline Tilefish** in the Gulf of America between 1981 and 2017. Estimates in this figure include the Florida Keys as that domain is not separable from those used by the MRIP online comparison tool for the Gulf of America (NMFS pers comm). The Headboat and shore modes are also included as uncertainty estimates for catch across multiple modes are only available when all modes are selected.

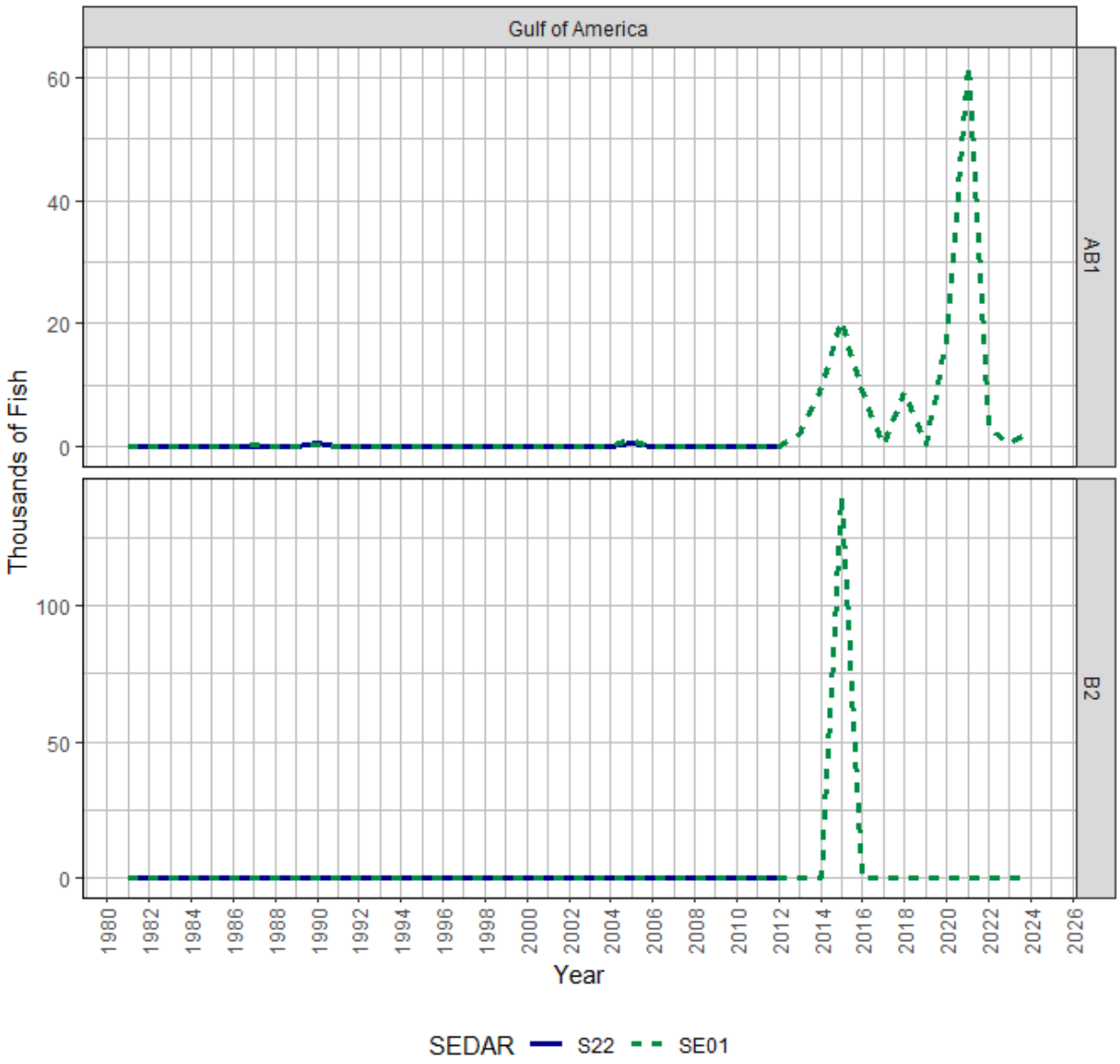


Figure 3. Comparison of total general recreational landings (AB1) and discard estimates (B2) for Gulf of America **Golden Tilefish** between SEFSC 01 and SEDAR 22, the terminal years of which are 2024 and 2012 respectively. Differences in catch estimates, which are in thousands of fish, are largely a function of changes in the MRIP survey (e.g., redesigned APAIS in 2013, FES in 2018). Blueline and Goldface Tilefish were not included in SEDAR 22.

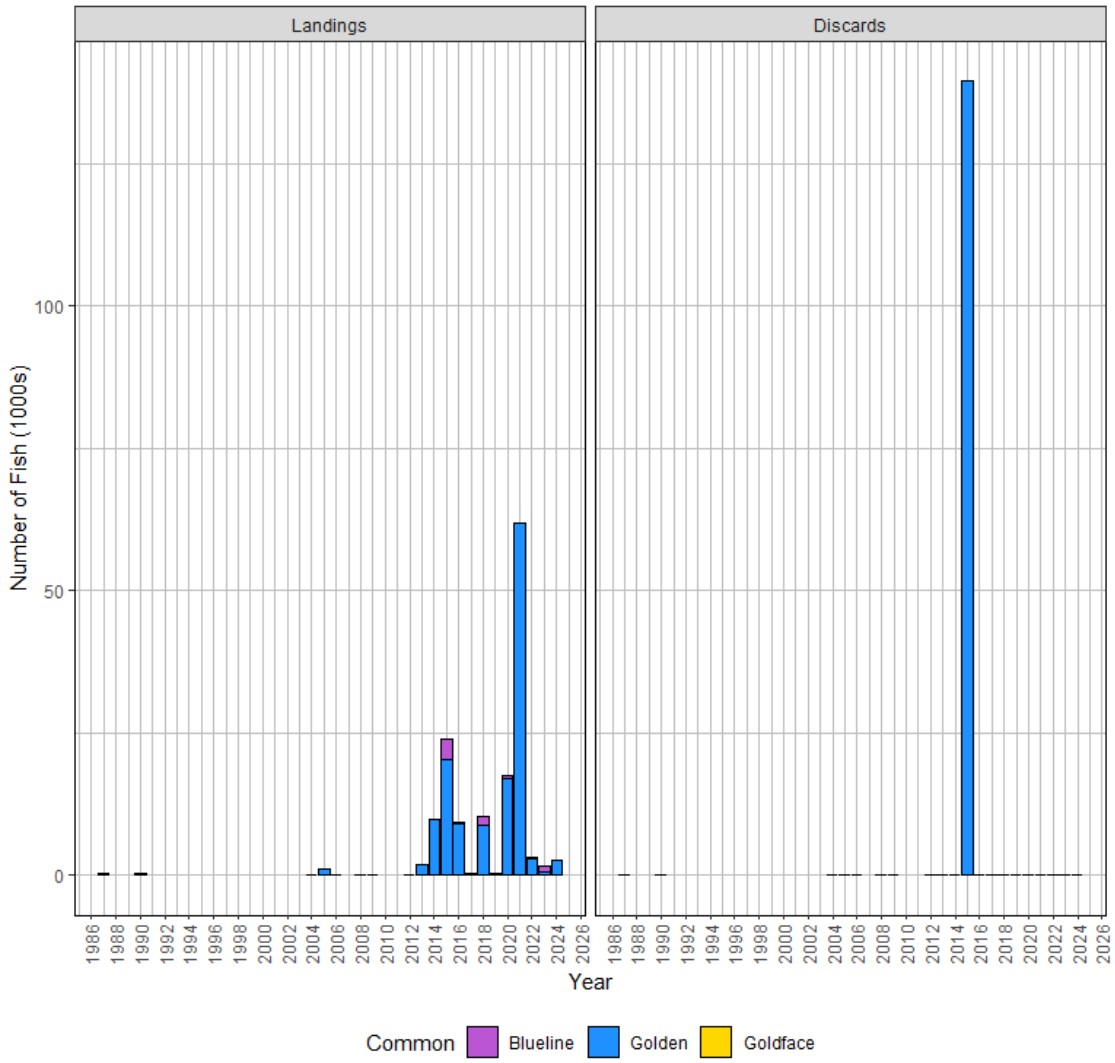


Figure 4. Comparison of annual landings and discards (numbers in 1000s) for **Golden, Blueline, and Goldface Tilefish** between 1981 to 2024. No Tilefish were landed or discarded between 1981-1985.

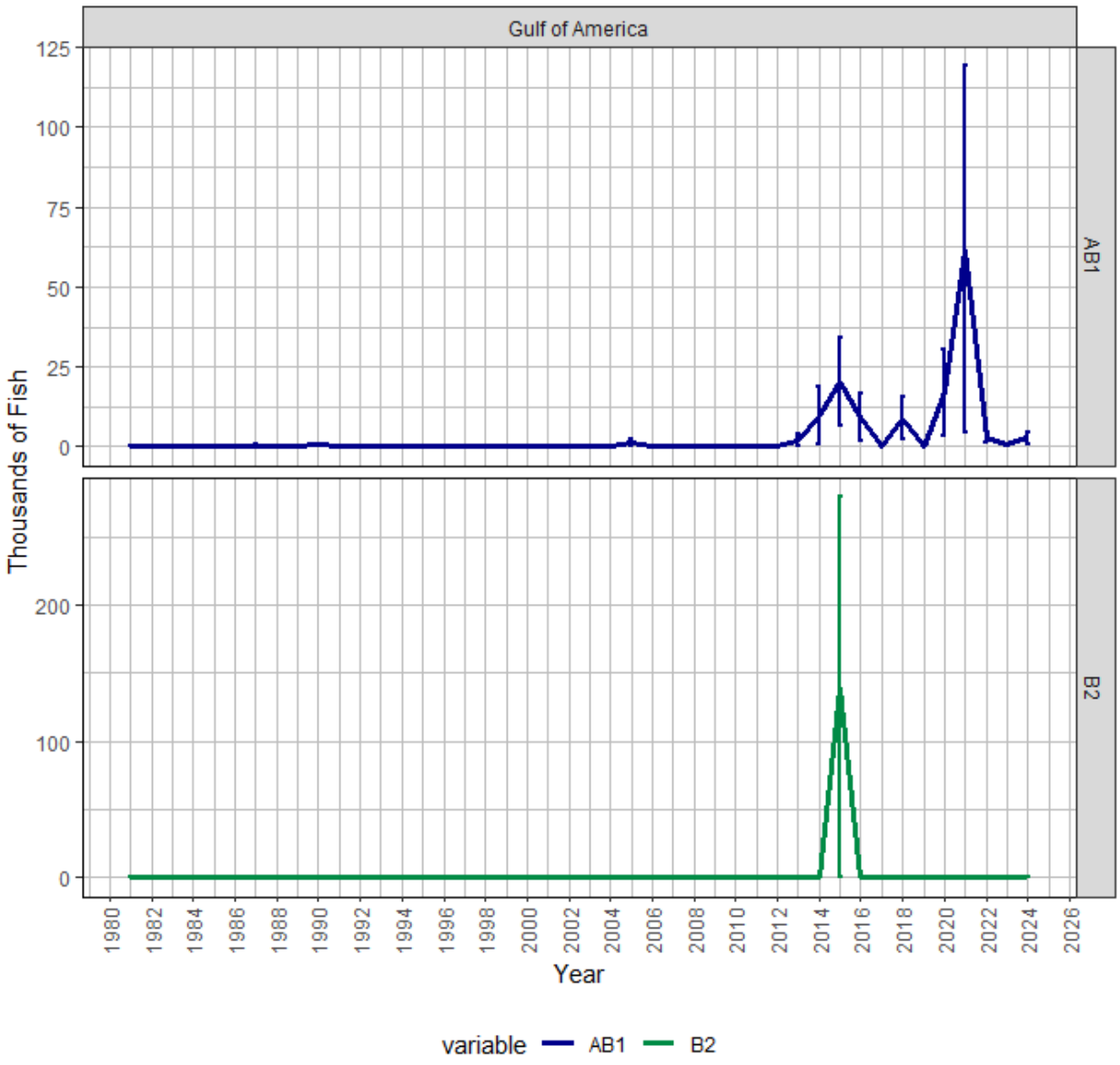


Figure 5A. Annual landings (AB1) and discard (B2) estimates with standard error intervals, in thousands of fish, for Gulf of America **Golden Tilefish** between 1981 to 2024.

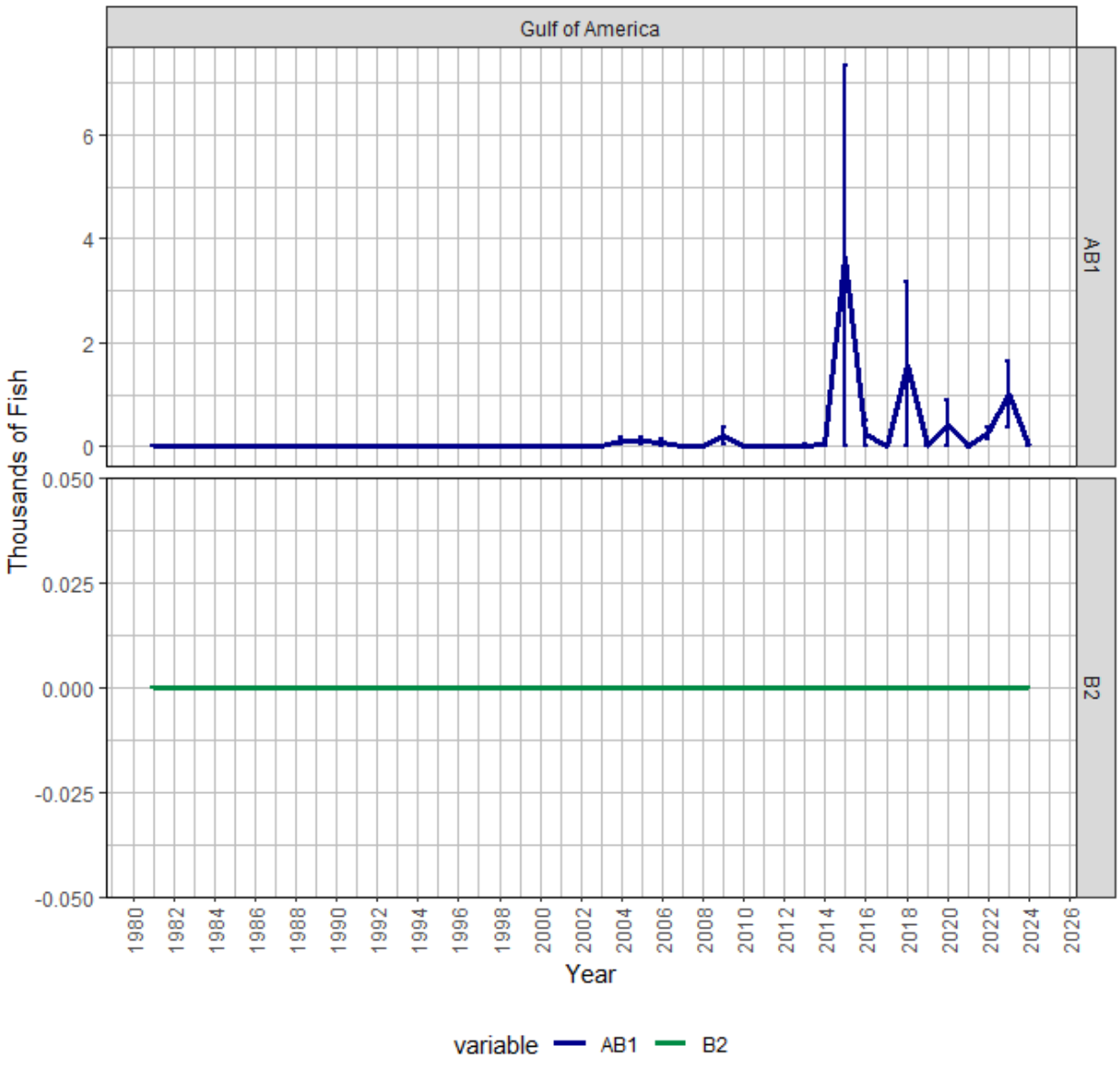


Figure 5B. Annual landings (AB1) and discard (B2) estimates with standard error intervals, in thousands of fish, for Gulf of America **Blueline Tilefish** between 1981 to 2024.

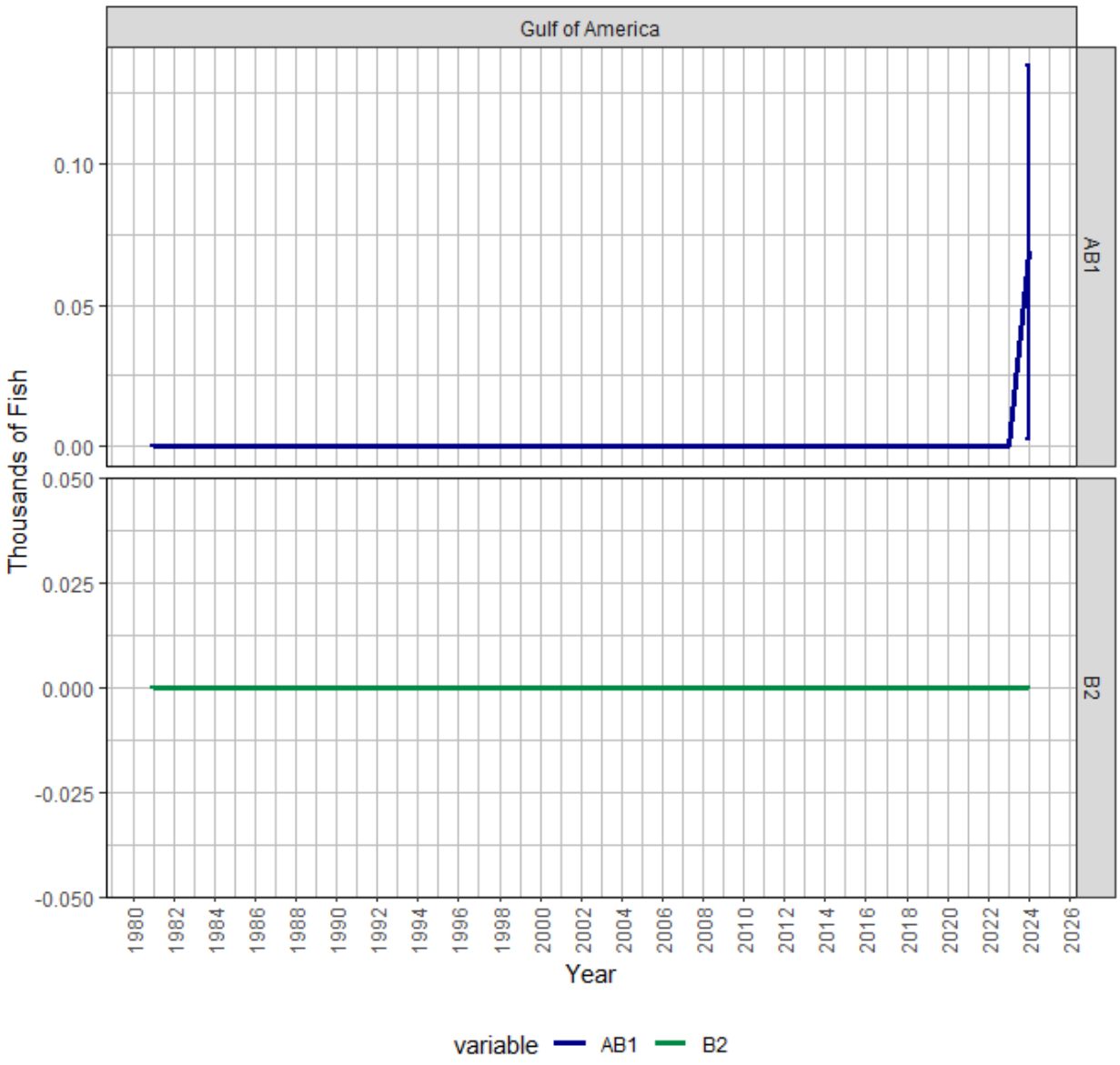


Figure 5C. Annual landings (AB1) and discard (B2) estimates with standard error intervals, in thousands of fish, for Gulf of America **Goldface Tilefish** between 1981 to 2024.

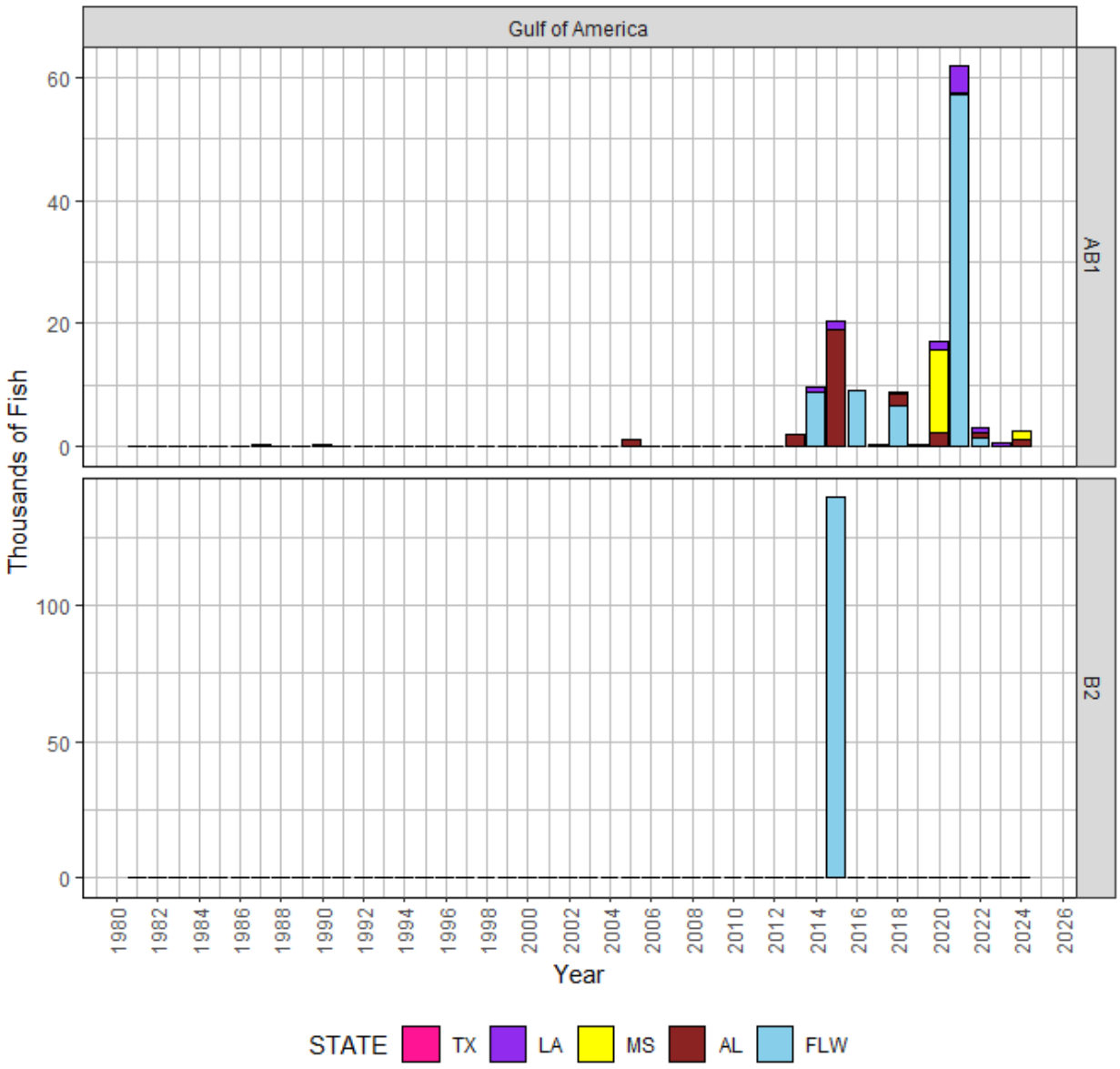


Figure 6A. Annual **Golden Tilefish** landings (AB1) and discards (B2), in thousands of fish, by state from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

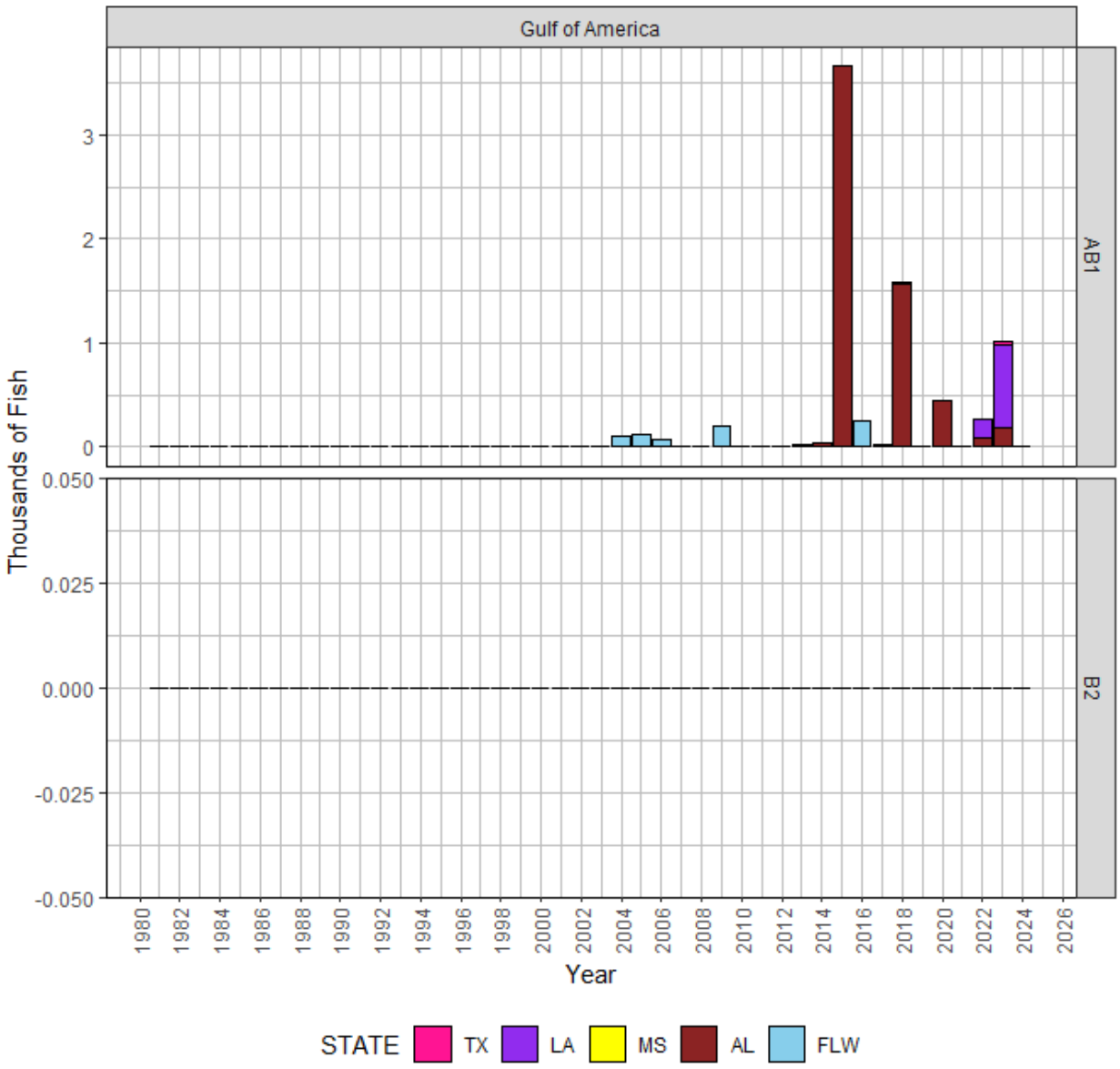


Figure 6B. Annual **Blueline Tilefish** landings (AB1) and discards (B2), in thousands of fish, by state from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

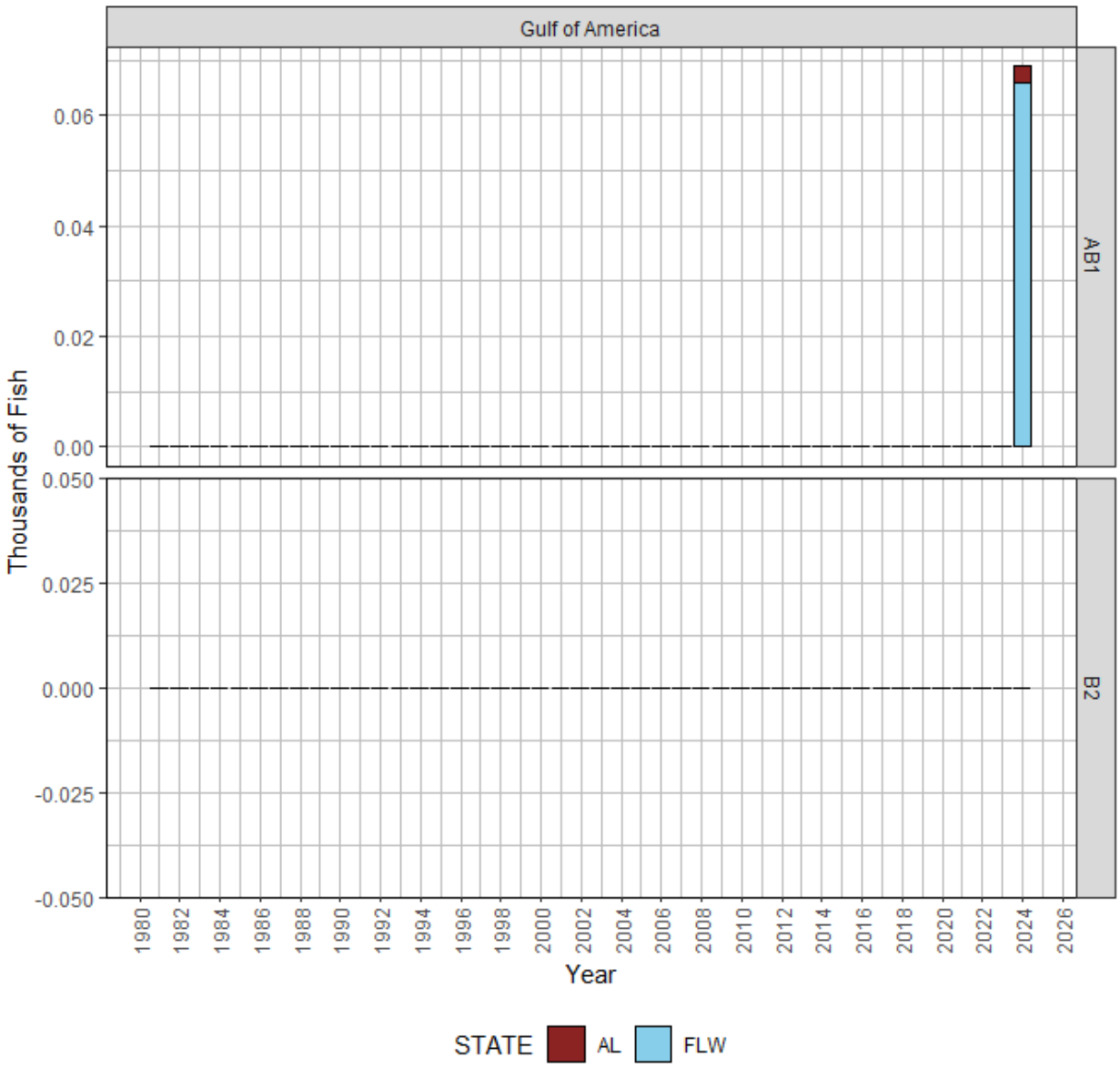


Figure 6C. Annual Goldface Tilefish landings (AB1) and discards (B2), in thousands of fish, by state from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

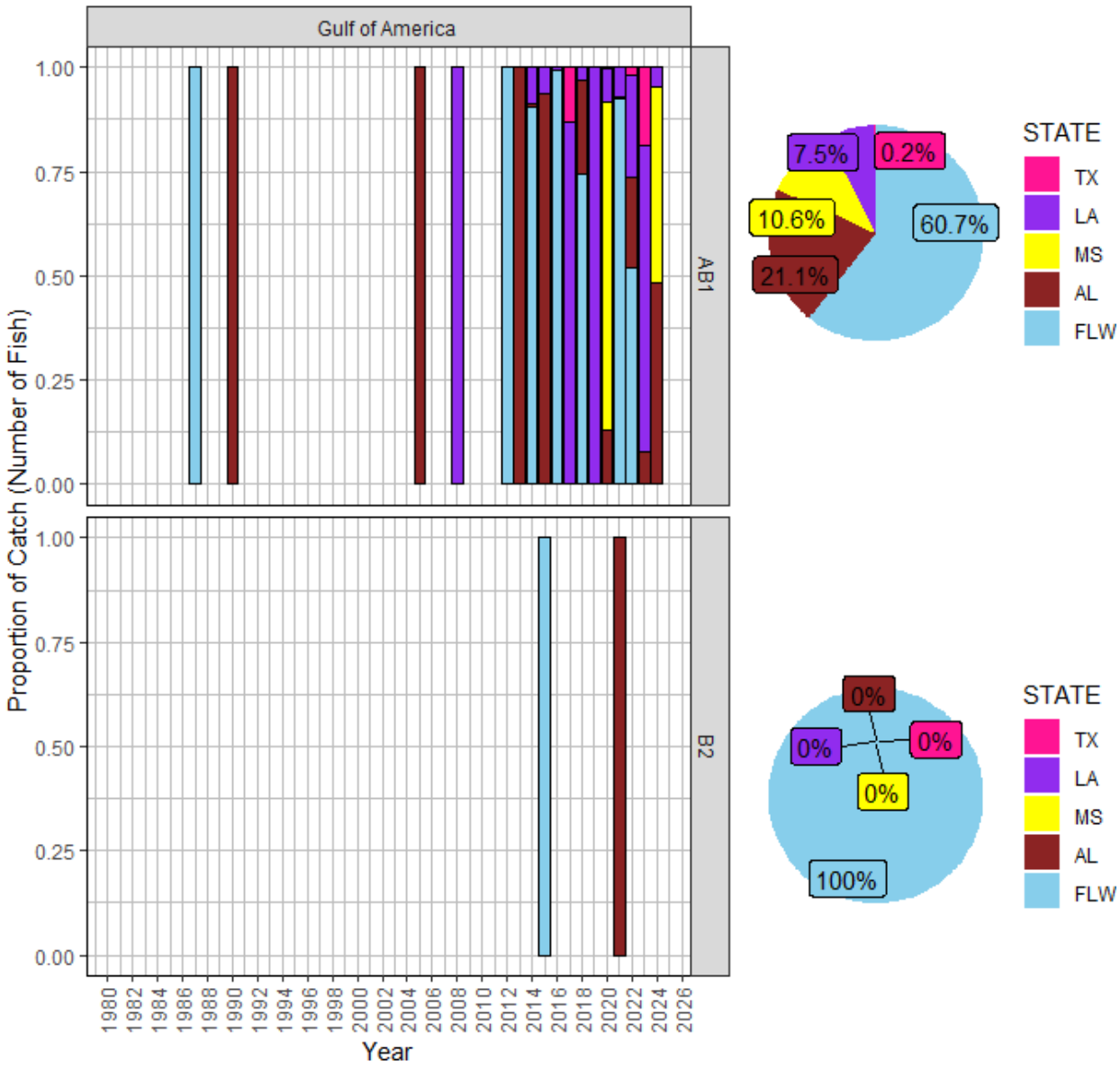


Figure 7A. Proportion of **Golden Tilefish** landings (AB1) and discards (B2), in numbers of fish, from each state by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

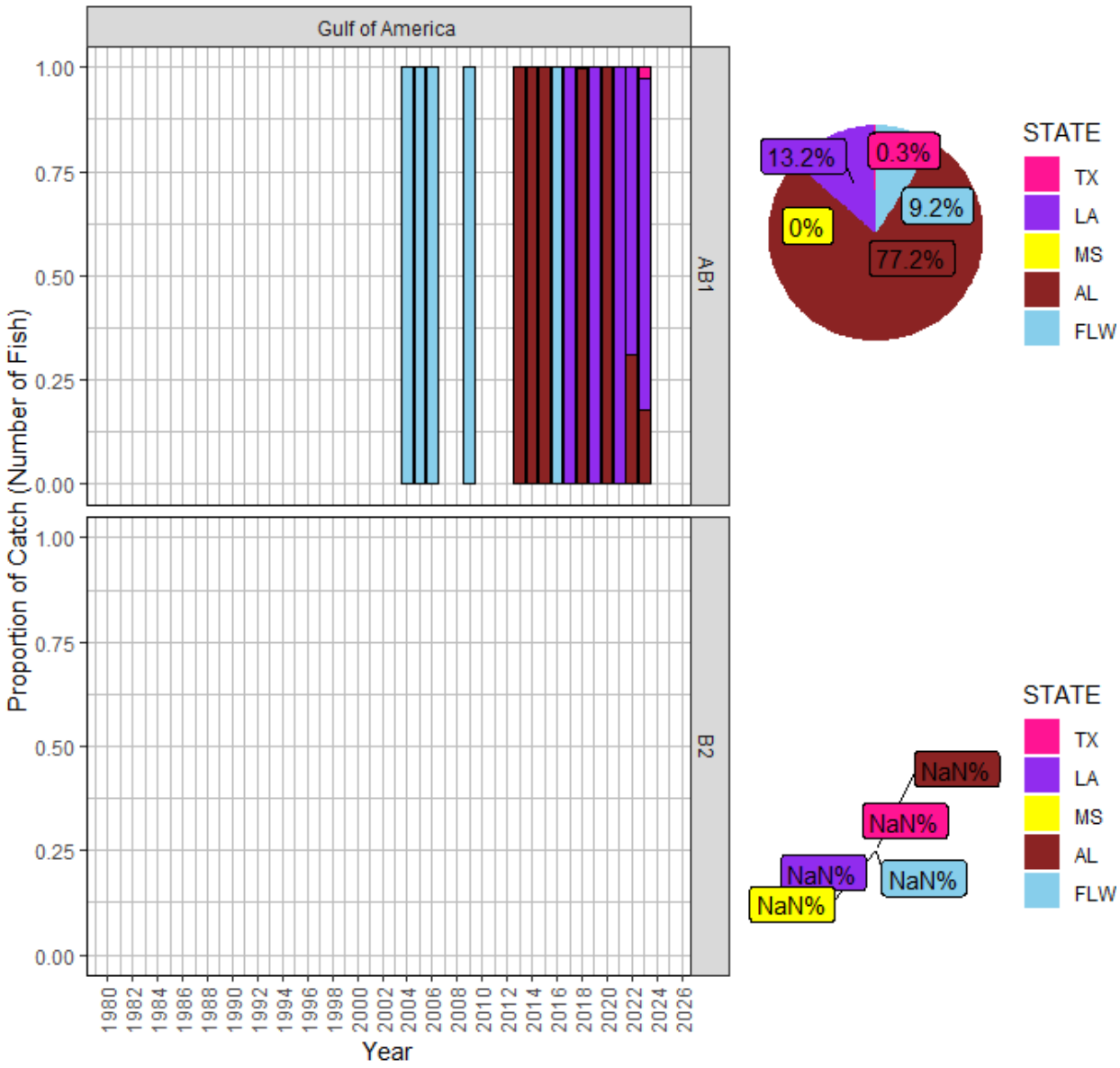


Figure 7B. *Proportion of* ***Blueline Tilefish*** *landings (AB1) and discards (B2), in numbers of* fish, from each state by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

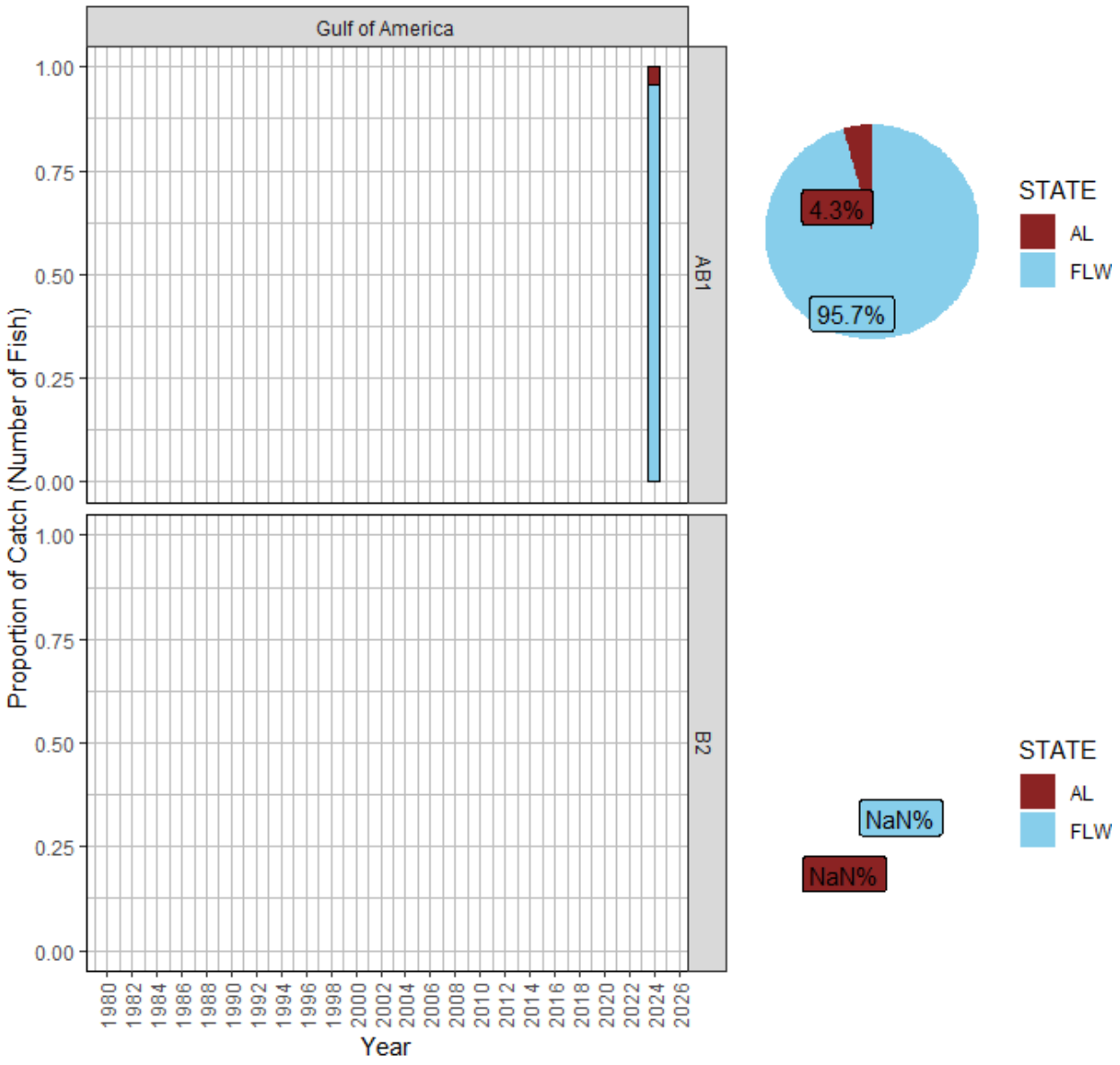


Figure 7C. Proportion of **Goldface Tilefish** landings (AB1) and discards (B2), in numbers of fish, from each state by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). FLW excludes the Florida Keys.

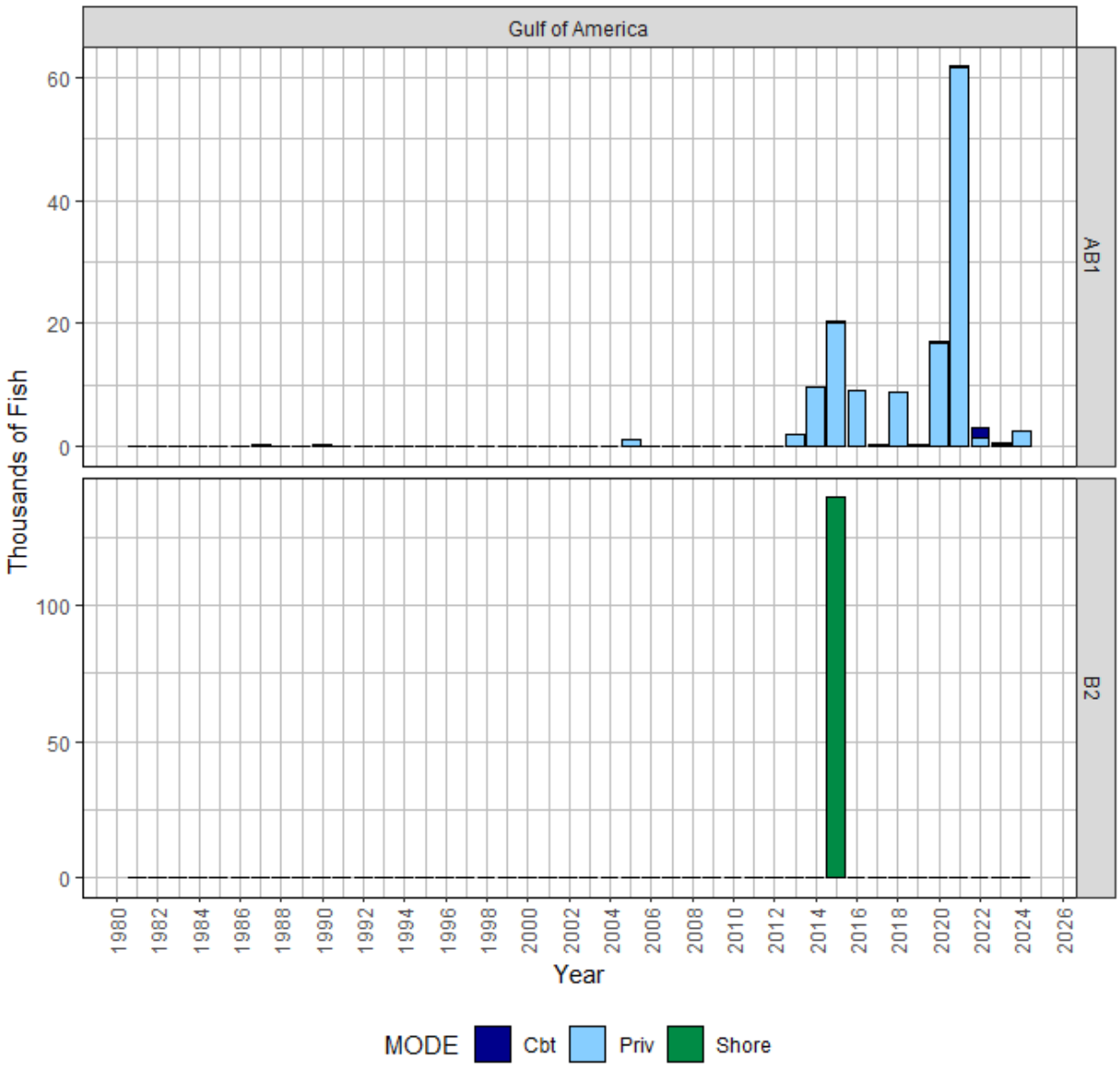


Figure 8A. Annual **Golden Tilefish** landings (AB1) and discards (B2), in thousands of fish, by mode from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

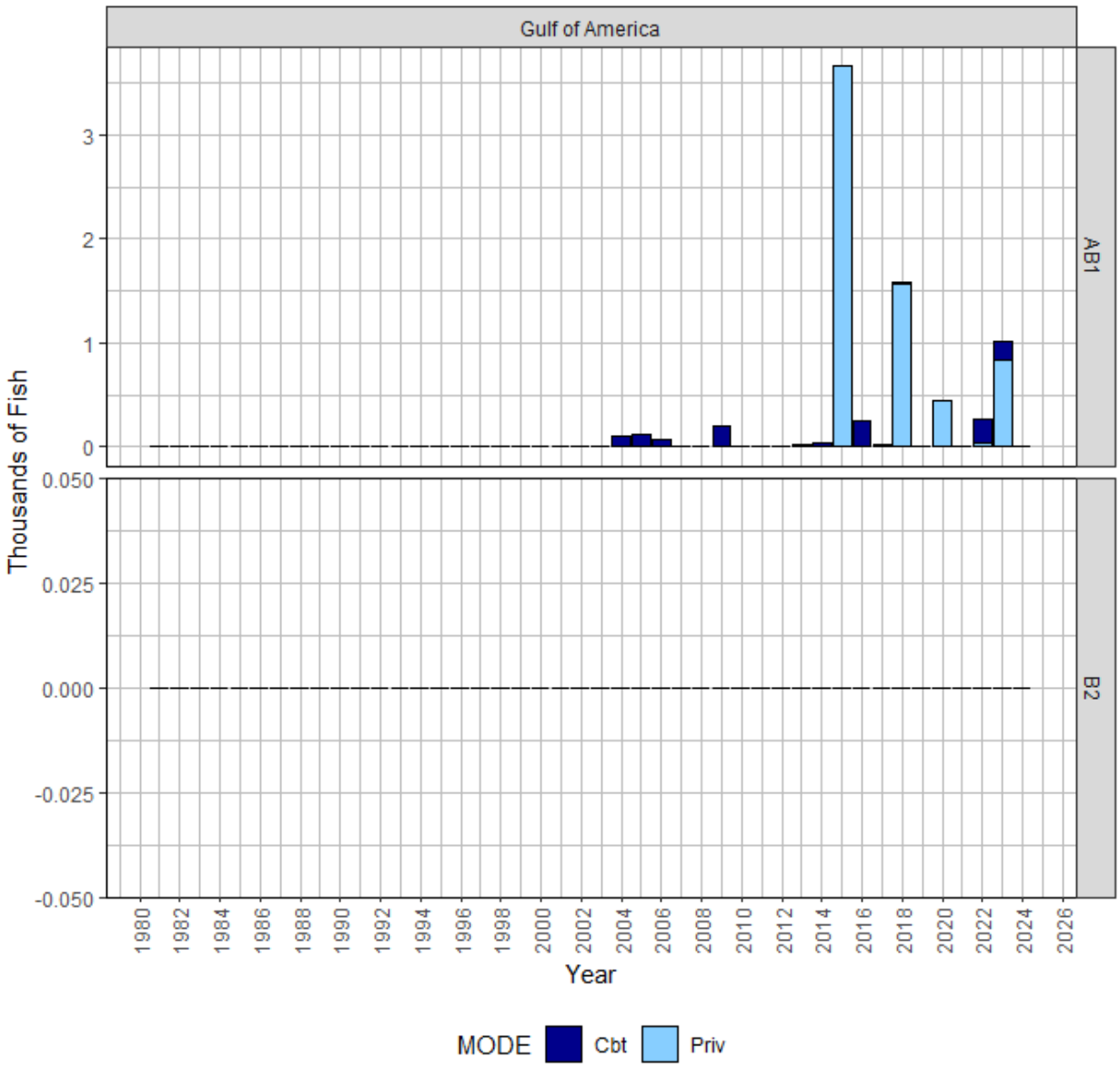


Figure 8B. Annual **Blueline Tilefish** landings (AB1) and discards (B2), in thousands of fish, by mode from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

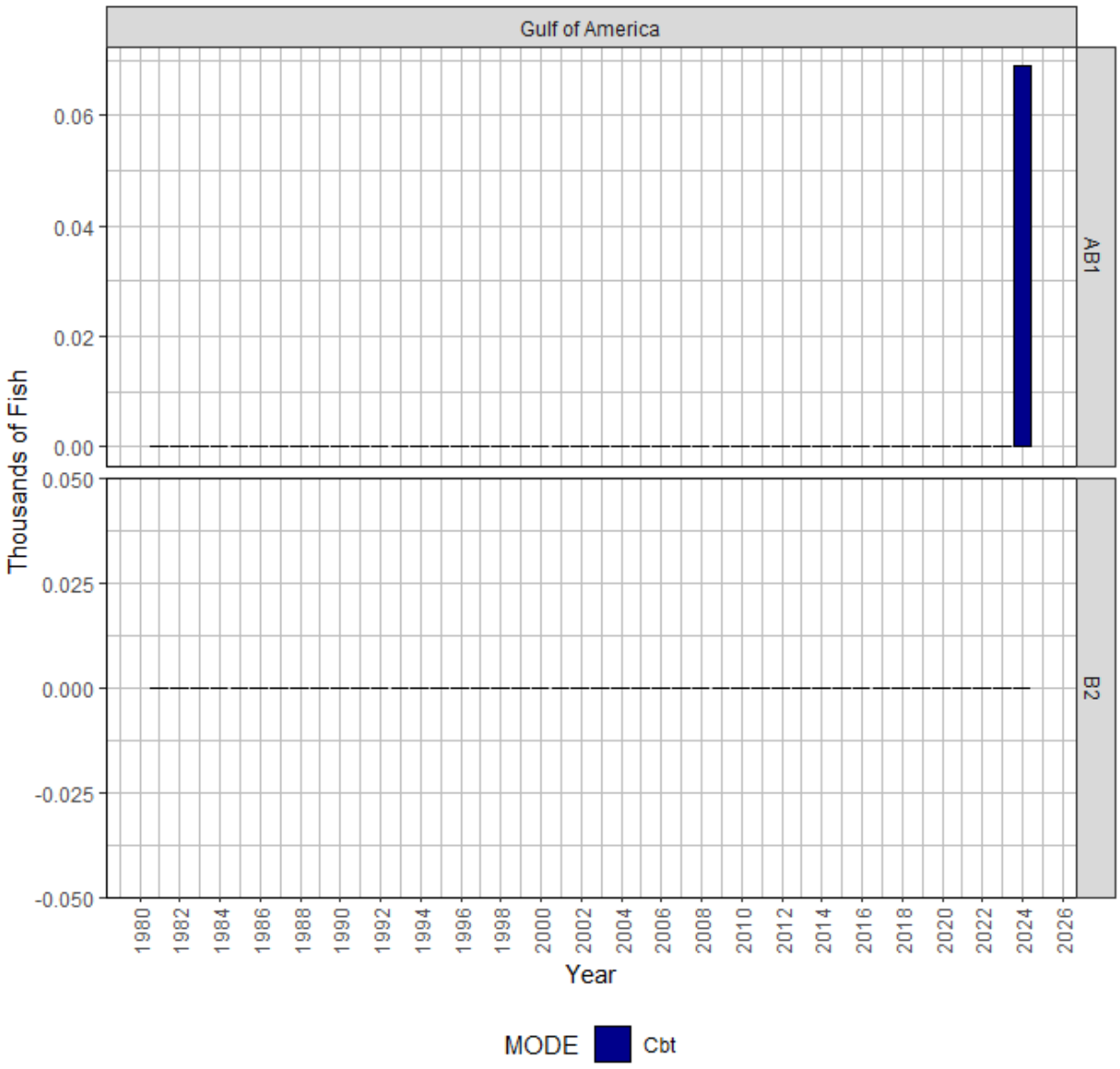


Figure 8C. Annual **Goldface Tilefish** landings (AB1) and discards (B2), in thousands of fish, by mode from 1981 to 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

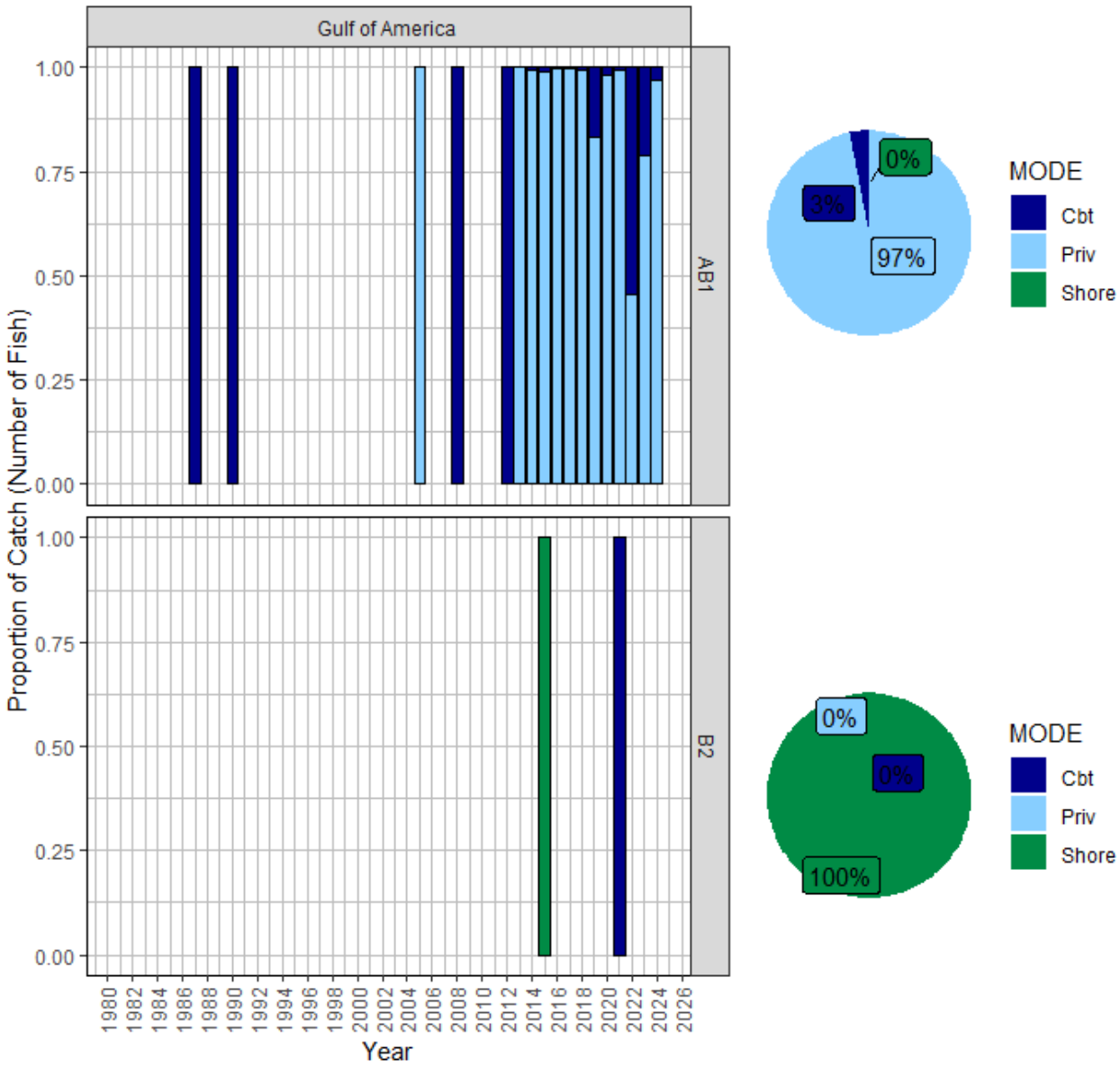


Figure 9A. Proportion of **Golden Tilefish** landings (AB1) and discards (B2), in numbers of fish, from each mode by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

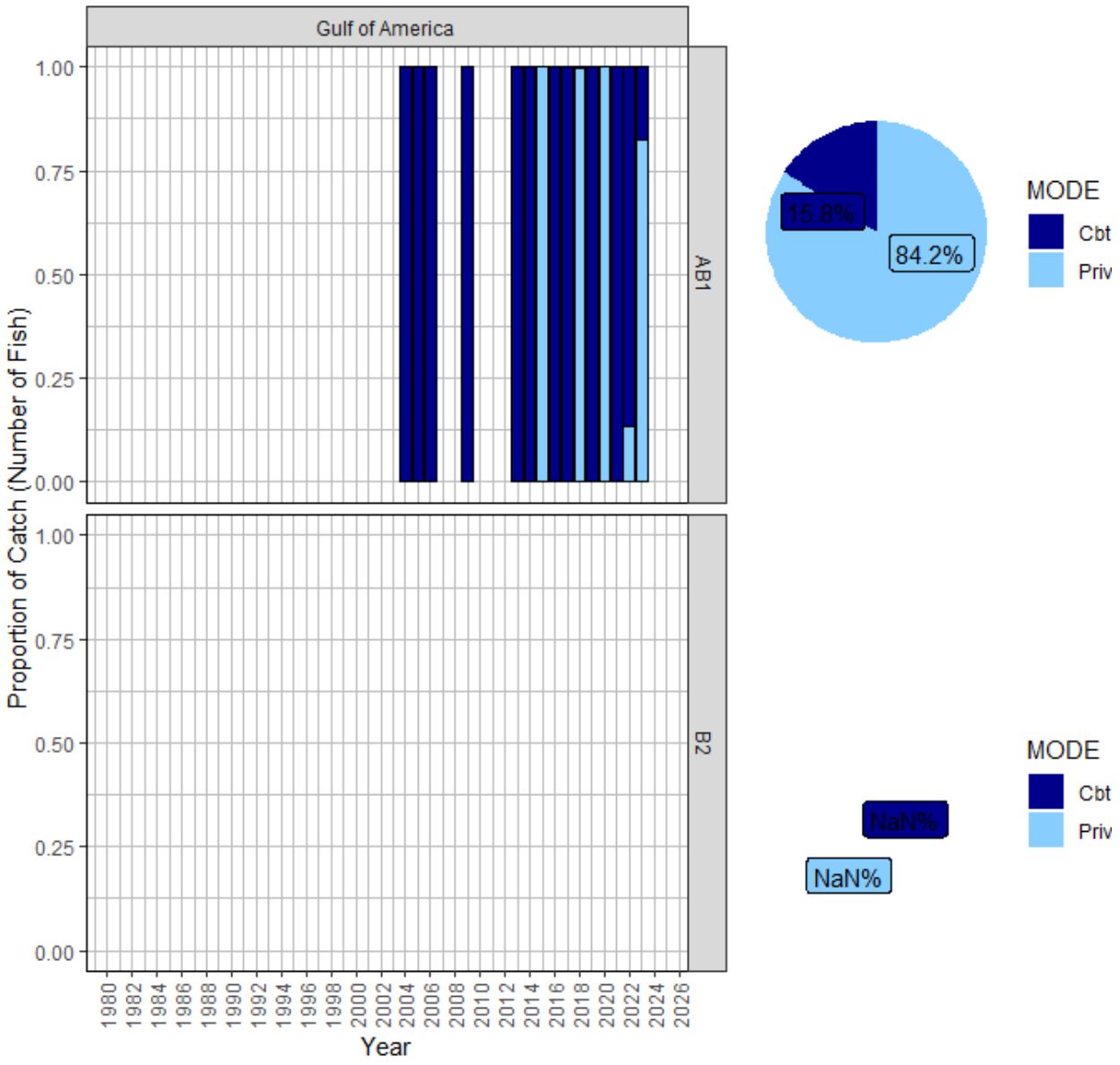


Figure 9B. Proportion of **Blueline Tilefish** landings (AB1) and discards (B2), in numbers of fish, from each mode by year (bar graph) and overall (pie chart) between 1981 and 2024 from all data sources (MRIP, LACreel 2014+, TPWD). Note that catch from the combined Private-Shore fishing mode in the LA Creel survey has been added to the Private mode.

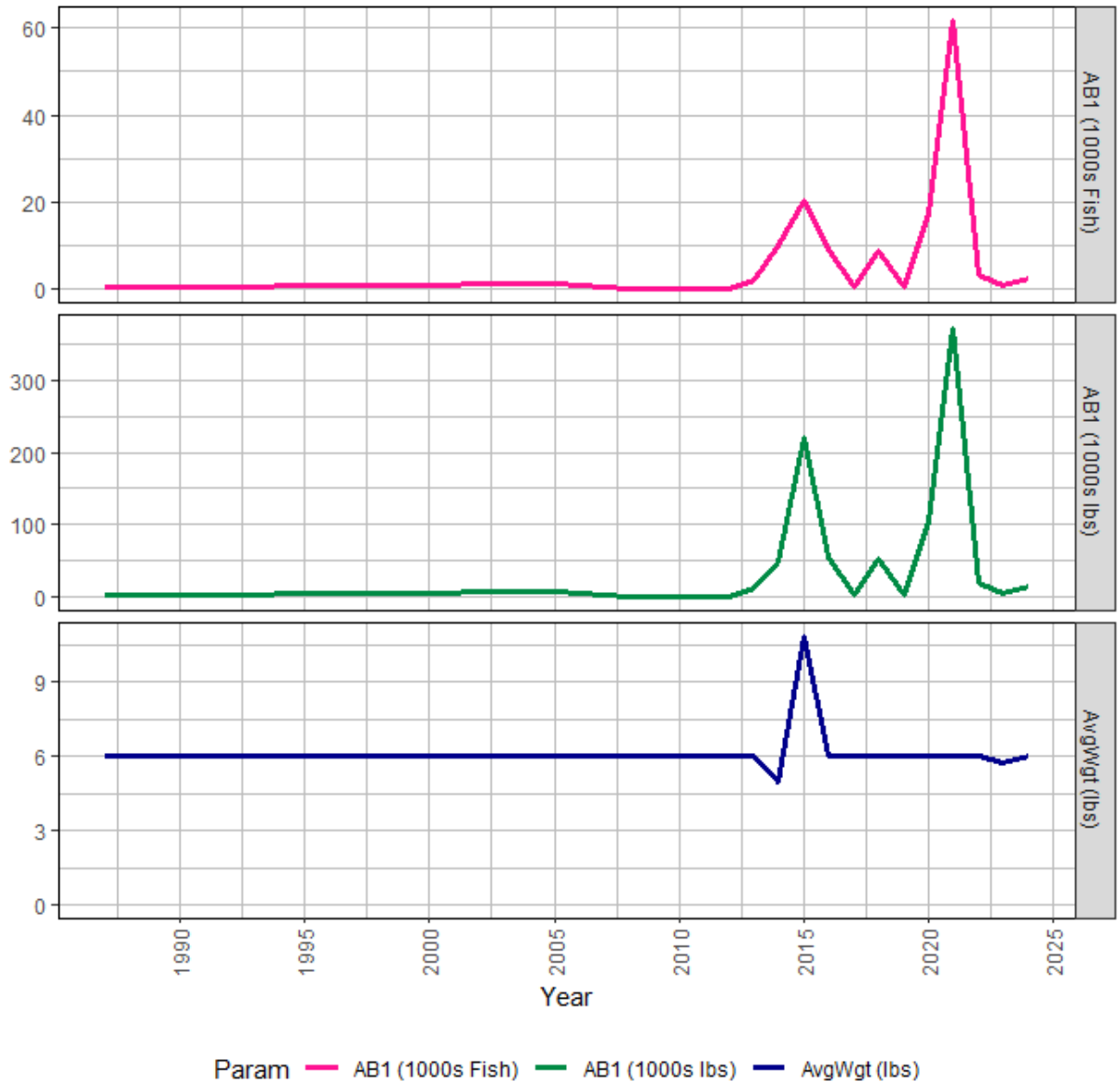


Figure 10A. Estimates of annual landings for **Golden Tilefish** in the Gulf of America from all data sources (MRIP, LACreel 2014+, TPWD): estimated landings in thousands of fish (top), estimated landings in thousands of pounds gutted weight (middle), and average weight of landed fish (estimated lbs/estimated fish) (bottom). See Appendix for average weight calculation methods. Whole weight estimates for Golden Tilefish were converted to gutted weight by dividing whole weight by 1.065.

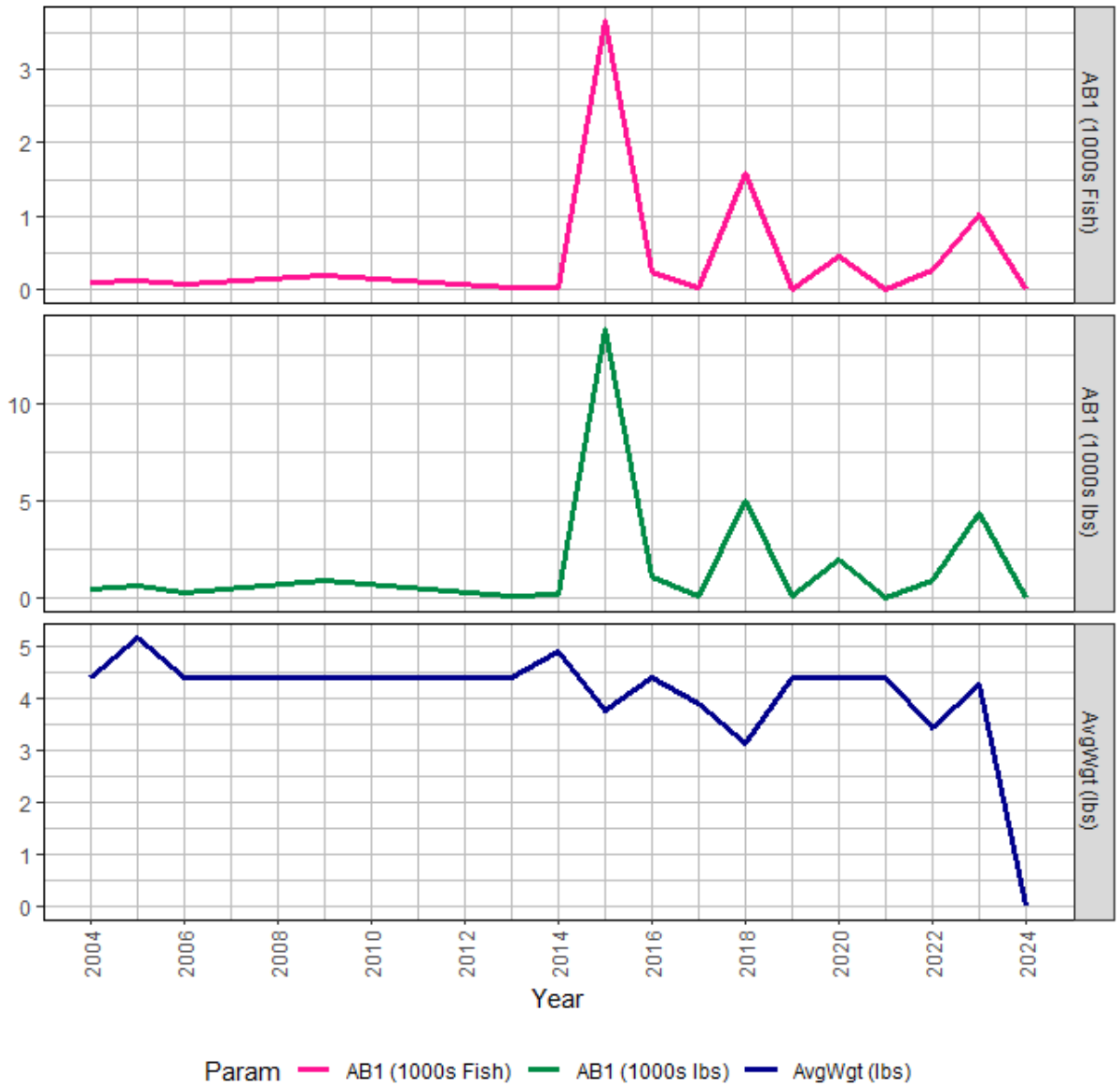


Figure 10B. Estimates of annual landings for **Blueline Tilefish** in the Gulf of America from all data sources (MRIP, LACreel 2014+, TPWD): estimated landings in thousands of fish (top), estimated landings in thousands of pounds gutted weight (middle), and average weight of landed fish (estimated lbs/estimated fish) (bottom). See Appendix for average weight calculation methods. Whole weight estimates for Blueline Tilefish were converted to gutted weight using a WWT:GWT ratio of 0.94.

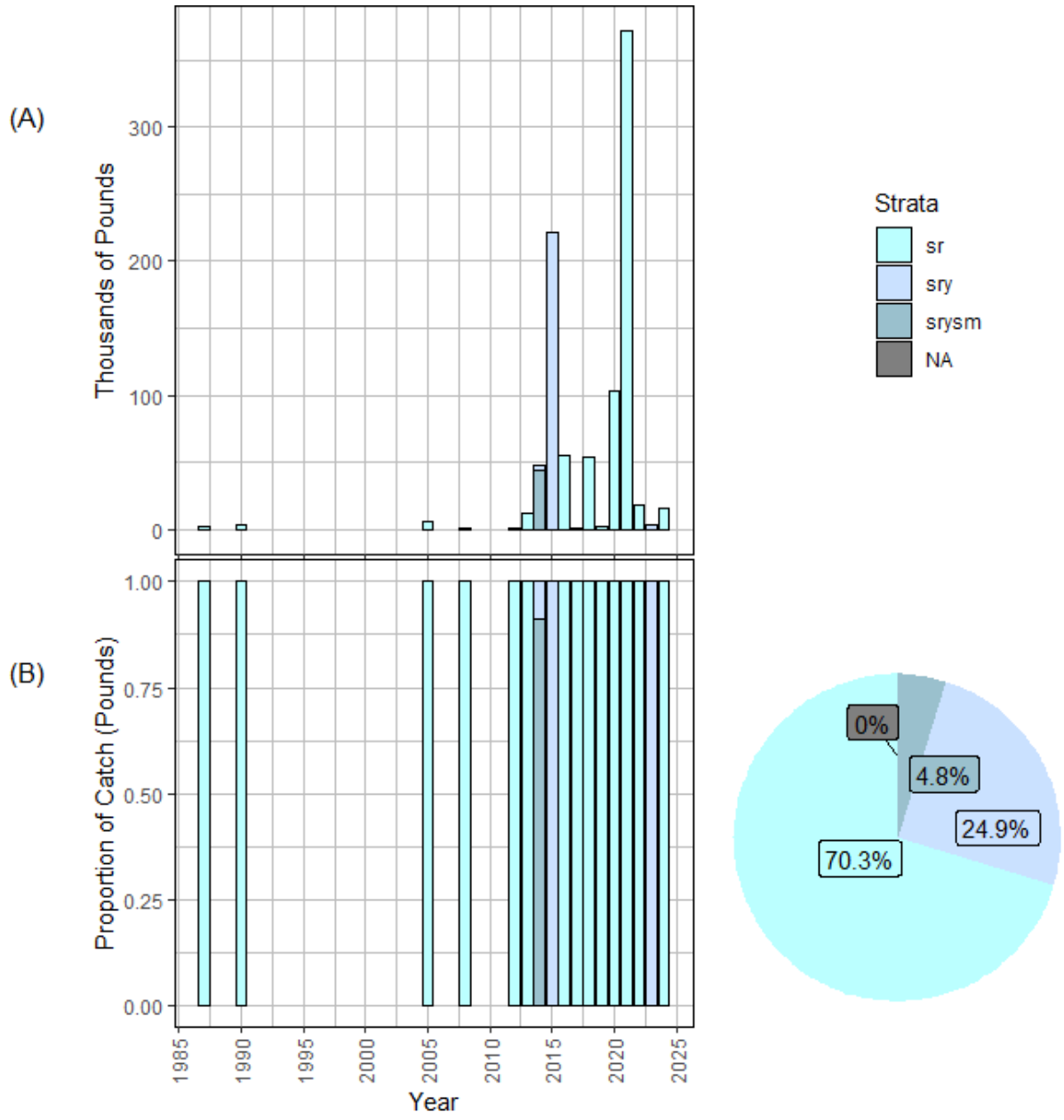


Figure 11A. Annual landings estimates of Gulf of America **Golden Tilefish** in thousands of pounds gutted weight from all data sources (MRIP, LACreel 2014+, TPWD) by hierarchy level, defined by **s**pecies, **r**egion, **y**ear, **s**tate, **m**ode, **w**ave, and **a**rea. Landings are grouped by the strata at which average weights were estimated. As an example, (srysm) summarizes those landings-in-weight estimates originating from cells where average weights are specific to a particular **s**pecies, **r**egion, **y**ear, **s**tate, and **m**ode (i.e., weight observations collapsed across waves and areas). Landings are provided (A) in absolute pounds and (B) as a percentage of total landings-in-weight, which is summarized by year (stacked bar graph) and across all years (pie chart).

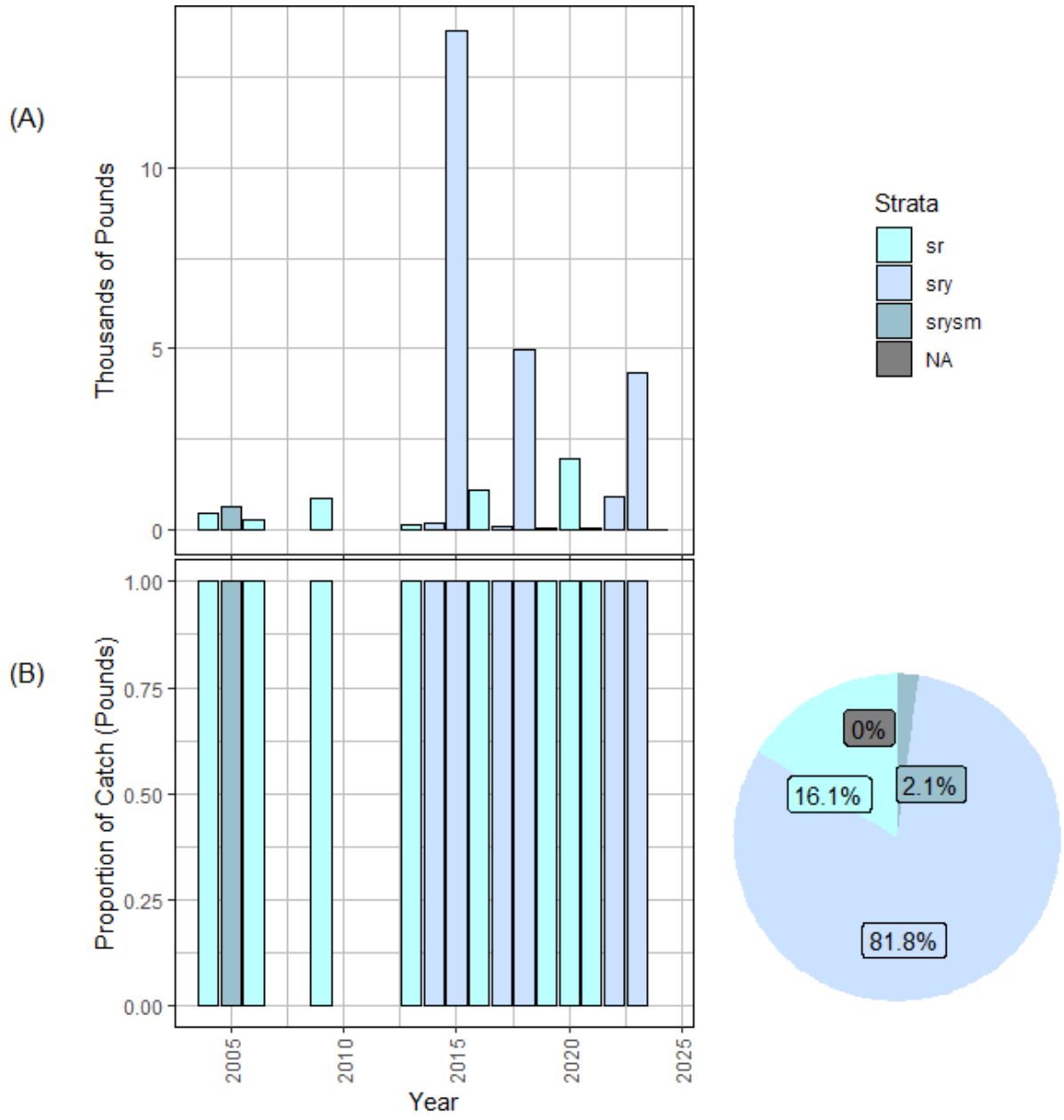


Figure 11B. Annual landings estimates of Gulf of America **Blueline Tilefish** in thousands of pounds gutted weight from all data sources (MRIP, LACreel 2014+, TPWD) by hierarchy level, defined by **s**pecies, **r**egion, **y**ear, **s**tate, **m**ode, **w**ave, and **a**rea. Landings are grouped by the strata at which average weights were estimated. As an example, (srysm) summarizes those landings-in-weight estimates originating from cells where average weights are specific to a particular **s**pecies, **r**egion, **y**ear, **s**tate, and **m**ode (i.e., weight observations collapsed across waves and areas). Whole weight estimates for Blueline Tilefish were converted to gutted weight using a WWT:GWT ratio of 1.06382978723404. Landings are provided (A) in absolute pounds and (B) as a percentage of total landings-in-weight, which is summarized by year (stacked bar graph) and across all years (pie chart).

Appendix A

Additional Details of Survey Data and SEFSC Estimation

- MRIP Calibrations: Fully calibrated estimates that take into account the change in the Fishing Effort Survey (FES; 2018), the redesigned Access Point Angler Intercept Survey (APAIS; 2013), and the For Hire Survey (FHS; 2000 for all Gulf of America states).
  - Papacostas and Foster (2021) provide descriptions of the approaches used by the Office of Science and Technology to calibrate MRIP (1) effort estimates derived from the legacy Coastal Household Telephone Survey (CHTS) into FES units for the private and shore modes and (2) catch rate estimates between the original and redesigned APAIS for all modes.
  - SEFSC calibrations of catch and effort estimates between CHTS and FHS units are calculated for the For-Hire mode by year, region, state, wave, and area fished according to Dettloff and Matter (2019a). Figure 1 summarizes the resultant scaling of CHTS catch estimates under the FHS calibration ratios.
- SEFSC Weight Estimation: Average (fish) weight estimates are calculated in whole weight by strata using the following hierarchy: species, region, year, state, mode, wave, and area (Matter and Rios 2013). The minimum number of weights used at each level of substitution is fifteen fish, except for the final species level where the minimum is one fish (Dettloff and Matter 2019b). For SEFSC 01, whole weight estimates for Tilefish were converted to gutted weight using a WWT:GWT ratio of 1.065. Size records above an allowable (max size) threshold are excluded from weight estimation and the summary tables included in this working paper (Tables 7-9). For SEFSC 01 Tilefish, this includes any weights heavier than 69.405 pounds.
- SEFSC Estimates derived using SEDAR best practices (SEDAR-PW-07):
  - To ensure sampling can support MRIP estimates at finer stratifications than for which the survey was designed, (sub-state) domain estimates are only generated for established geographic domains. For Florida, this includes the sub-state domains of Florida in the FHS (1 = Florida panhandle, Escambia to Dixie; 2 = western Florida, Levy to Collier).
  - Between 1981 and 1985 in the Gulf of America, MRIP charter and headboat modes were combined into a single (for-hire) mode for estimation purposes. Since the NMFS Southeast Region Headboat Survey (SRHS) began in 1986 in the Gulf, the MRIP combined for-hire mode must be split to provide estimates of headboat landings in these early years. Estimates for the MRIP for-hire mode (1981-1985) were split using a ratio of SRHS headboat angler trip estimates to MRIP charterboat angler trip estimates for 1986-1990, calculated by state (or state equivalent to match SRHS areas to MRIP states).