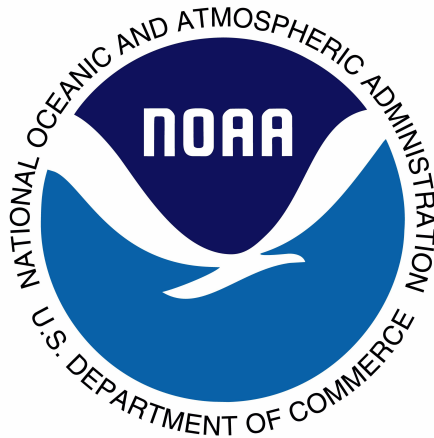


Southeast Region Headboat Survey- 2023 South Atlantic Annual Report¹



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¹DISCLAIMER: These data are under frequent review to ensure both accuracy and integrity and are subject to change without notice.

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1 Introduction

The Southeast Region Headboat Survey (SRHS) is administered by the National Marine Fisheries Service (NMFS) Southeast Fisheries Science Center (SEFSC) at the Beaufort, NC National Oceanic Atmospheric Administration (NOAA) Laboratory and has operated along the southeast coast of the United States (hereafter South Atlantic) since 1972 and in the Gulf of Mexico since 1986. The survey is the longest continuous time series of recreational fisheries data from federal waters on the U.S. east coast, and the second longest time series for the U.S. Gulf of Mexico coast. The SRHS data consists of self-reported logbook records for each trip and biological samples from fish intercepted dockside.

Lengths, weights, otoliths, spines, and scales (for ages), and gonads (for maturity and reproductive parameters) collected from headboat trips by SRHS port agents are used as inputs to stock assessment models and in life history studies. Many of the common reef-associated and pelagic species managed by the South Atlantic and Gulf of Mexico Fishery Management Councils are captured and sampled by the SRHS. For many stocks in the South Atlantic, the index of relative abundance computed from SRHS data is the only source of abundance information prior to 1992, covering a critical time period in the exploitation history of those species. The following document describes general trends for 2023 from various data sources within the headboat fleet as well as summaries for various species of management interest.

2 Data Collection

The SRHS is divided into discrete geographical/statistical areas to which headboat vessels and associated catches are assigned based on home port and fishing history. The approximate headboat areas in place since 2013 are shown in figure 1. Prior to 2013 some areas had inshore and offshore strata that were assumed at the vessel level and there were very small areas to designate the Dry Tortugas and Florida middle grounds. State-specific strata for Alabama and Mississippi were added over the course of the survey in order to split out landings at finer strata for data requests by states. Area 1 was sampled for a few years at the beginning of the survey and was added back to the survey in 2009. SRHS port agents are responsible for sampling headboats operating in single or multiple statistical areas. The main components of the survey include the dockside intercept sampling program (DISP), the headboat activity report (HAR), and the logbook (commonly called the trip report or catch record (CR)).

The DISP is used to obtain length and weight data from landings to determine the size distribution and mean size of species landed in the headboat fishery. Port agents also collect otoliths, spines, scales and occasionally gonads to characterize the age distributions, sex ratios, and reproductive parameters of species landed in the fishery. Port agents may collect other biological samples (e.g., stomachs, fin clips) in support of research or management needs (e.g., trophic interactions and stock structure studies). The SRHS has been a primary source of fishery-dependent data for age and growth studies that are used as inputs for stock assessments in the southeast U.S. During 1972-1991 the SRHS was the only fishery-dependent source of age and growth samples for life history studies in the South Atlantic (sampling of the commercial sector began in 1992). The data collected from the DISP is referred to as the bioprofile (BP) dataset.

The survey design for the DISP can be described as a systematic opportunistic sampling design. Each port agent assigned to a particular area is required to sample all headboats within their area of responsibility in a systematic rotation, ideally sampling each vessel at least once each month during periods of operation. There is considerable variation in the operational schedules of individual vessels and it is rare that agents are able to sample vessels in an exact and repeatable rotation. Consequently, SRHS port agents can adjust their sampling schedules to ensure sampling of all vessels approximately the same number of times each month during periods of operation.

When conducting dockside intercept sampling, port agents are instructed to identify themselves as NMFS port agents conducting a survey of headboat fishing. They are further instructed to identify and select anglers with unusual, uncommon or rare fishes in their catches (on stringers, in coolers, etc.). The rationale for this approach is that if catches with uncommon catches are selected, sufficient numbers of more common species will likely be obtained as well.

Upon obtaining an angler's catch for sampling (usually separated on stringers or in baskets), the port agent measures and weighs all of that angler's fish using an electronic fish measuring board connected to an electronic balance. All measurements are recorded into computer memory for later download and editing.

While sampling, the port agent often performs education and outreach functions by answering bystanders' questions about the SRHS, fish biology and ecology, and fisheries regulations and management. Other than several technological improvements, there have been no significant changes to the dockside sampling protocols since the inception of the survey.

Another component of the SRHS is the headboat activity report (HAR). Port agents record all known information about a vessel's activity (e.g., trip date, trip duration, and number of anglers) on the HAR, regardless of whether a trip was sampled under the DISP. These observations are used to track compliance and to correct for non-reporting. The HAR observations are collected by multiple methods, including direct observation, contacting the ticket office to confirm activity, observations made by samplers from other surveys (e.g., MRIP samplers), and in recent years by checking vessel and marine traffic websites for fishing trips.

The CR component was originally designed to be a census, but fluctuations in reporting cooperation have resulted in changes in methodology over time. The survey has always asked or required vessel personnel to complete self-reported trip reports of catch and effort for each trip. From 1972-2012, the mechanism used by captains and crew to report catch and report was a single-page, paper logbook form.

In 2013, the SRHS electronic logbook (SRHS eLog) was implemented. Since implementation the SRHS eLog has been updated several times, and most updates have been minor adjustments that did not affect the user. The most significant update that did impact the user was in August 2014, when four economic fields were added: number of paying passengers, number of crew, amount of fuel used, and price per gallon of fuel. Currently the SRHS eLog requires the following fields to be completed for each trip: date(s) and duration of the fishing trip; vessel and captain's name; number of anglers and number of paying passengers; number of crew, number of gallons of fuel used, and price per gallon of fuel; geographic location of fishing activity in latitude and longitude degrees and minutes (optional point and click maps); minimum, maximum and primary depths fished; number of individuals of each caught species that were kept; and number of individuals of each caught species that were released. The number of fish vented or descended upon release was added to the electronic logbook in 2023.

3 Landings

Species with landings > 1,000 lbs in the South Atlantic headboat fishery for 2023 are presented in Table 1². The table includes the species composition ranked by landings (lb), landings in number, and the percent difference relative to the five- and ten-year averages.

Table 1: Species landed > 1,000 pounds from headboats in the U.S South Atlantic. The 5yr and 10yr column names represent the positive or negative percent difference compared to the five or ten year average for the given species.

common	landings (lb)	5yr (lb)	10yr (lb)	landings (n)	5yr (n)	10yr (n)
vermillion snapper	110,286	-15	-22	107,270	-12	-14
white grunt	81,806	-7	-22	123,002	-2	-13
almaco jack	77,192	82	98	10,331	-11	13
yellowtail snapper	68,142	-23	-40	89,875	-5	-25
gray triggerfish	43,252	-21	-41	21,480	-22	-39
gray snapper	42,904	-10	-38	34,369	-10	-31
greater amberjack	40,007	-1	-32	2,525	8	-21
king mackerel	39,004	-34	-47	3,948	-45	-55
mutton snapper	35,802	-16	-39	7,392	-19	-44
black sea bass	33,664	-3	-37	26,045	-10	-39
lane snapper	31,671	49	40	51,296	50	55
spottail pinfish	25,665	8	7	35,570	14	12
little tunny	25,026	-37	-59	3,936	-25	-52
blackfin tuna	24,240	-20	-32	2,129	-33	-40

²Confidential data were replaced with *conf*

Table 1: *(continued)*

common	landings (lb)	5yr (lb)	10yr (lb)	landings (n)	5yr (n)	10yr (n)
banded rudderfish	22,435	-16	-17	8,392	-16	-14
Atlantic sharpnose shark	19,862	-34	-57	3,051	-42	-61
tomtate	18,046	5	2	47,096	15	4
blue runner	13,960	-7	-48	12,834	3	-37
cobia	11,775	-5	-35	349	-42	-59
scup	11,305	-19	-6	12,730	-16	-2
red snapper	10,702	-27	-28	1,884	-29	-23
littlehead porgy	9,222	7	26	12,584	15	40
dolphin	8,680	2	-49	1,966	5	-27
Spanish mackerel	8,629	-40	-21	9,486	31	36
blueline tilefish	<i>conf</i>	151	9	<i>conf</i>	15	-30
jolthead porgy	7,770	-21	-35	5,601	-16	-12
blackfin snapper	7,466	59	118	2,965	33	101
great barracuda	6,931	-1	-18	548	-12	-25
red grouper	5,609	-54	-63	979	-50	-55
graysby	5,155	66	99	6,518	62	104
silk snapper	5,086	132	185	1,462	73	78
scamp	4,463	-10	-48	825	4	-34
gag	4,439	-15	-38	435	-11	-32
queen snapper	<i>conf</i>	9	15	<i>conf</i>	32	60
knobbed porgy	3,794	-12	-19	3,907	-1	-13
whitebone porgy	3,711	-23	-35	3,244	-19	-29
bigeye	3,506	29	-30	3,220	20	-32
wahoo	2,727	-12	-22	114	5	-15
African pompano	2,681	74	13	157	7	-18
pigfish	2,661	-16	-7	6,474	-2	7

Table 1: *(continued)*

common	landings (lb)	5yr (lb)	10yr (lb)	landings (n)	5yr (n)	10yr (n)
bank sea bass	2,605	-6	3	6,453	10	17
ocean triggerfish	2,542	-45	-63	794	-37	-62
red porgy	2,488	-63	-84	1,261	-75	-87
bluestriped grunt	2,185	82	19	4,046	87	25
crevalle jack	2,142	106	43	232	114	48
bull shark	1,656	358	651	11	358	547
bluefish	1,594	17	-35	1,275	18	-24
cero	1,546	4	-9	681	33	8
blacktip shark	1,536	-42	-43	39	-55	-54
snowy grouper	1,320	42	-56	179	-17	-60
queen triggerfish	1,264	177	244	490	186	270
yellowfin tuna	1,174	-83	-87	96	-62	-62
sand perch	1,151	93	155	2,538	62	119
scalloped hammerhead	1,000	358	815	10	355	809

4 Discards

Species with discards > 1,000 fish in the South Atlantic headboat fishery for 2023 are presented in Table 2³. The table includes the species composition ranked by discards and the percent difference relative to the five- and ten-year averages. The number of fish vented and/or descended for 2023 are presented. Vessels are not required to enter zero values for each species vented or descended due to the time burden. Blanks in the vented or descended data are considered zeros here.

Table 2: Species discarded > 1,000 fish from headboats in the U.S South Atlantic. The 5yr and 10yr column names represent the positive or negative percent difference compared to the five or ten year average for the given species. The number of fish vented and/or descended was added to the logbooks in 2023.

common	discards (n)	5yr (n)	10yr (n)	vented	descended
black sea bass	248,888	-18	-40	4,083	18,804
yellowtail snapper	63,751	11	14	3,093	7,478
white grunt	59,893	-2	-0	733	7,879
vermillion snapper	58,345	-22	-28	8,962	7,649
tomtate	49,020	4	-18	1,078	1,564
red snapper	35,723	-30	-30	16,349	10,132
lane snapper	23,248	54	120	1,333	1,460
red grouper	17,393	80	104	5,704	3,230
mutton snapper	16,045	25	16	6,230	4,206
blue runner	15,251	-1	-28	945	779
graysby	14,877	46	109	8,315	1,096
gray triggerfish	13,294	-23	-47	629	547
gray snapper	10,821	9	6	672	1,878
Atlantic sharpnose shark	7,535	-33	-59	121	565
spottail pinfish	4,061	-3	-20	4	129
bluestriped grunt	2,955	147	141	0	128
sandbar shark	2,479	-5	71	108	494
red porgy	2,328	-44	-76	27	27

³Confidential data were replaced with *conf*

Table 2: (continued)

common	discards (n)	5yr (n)	10yr (n)	vented	descended
oyster toadfish	1,989	63	135	0	3
greater amberjack	1,946	-15	-36	107	55
pigfish	1,900	-20	-16	10	48
Atlantic spadefish	1,810	202	274	0	0
cobia	1,690	6	18	234	178
sharksucker	1,663	348	225	13	1
dusky flounder	1,653	335	754	0	0
littlehead porgy	1,594	-30	17	54	33
bank sea bass	1,576	-39	-43	15	100
remora	1,455	-62	-73	9	6
gag	1,428	49	47	266	505
little tunny	1,401	-39	-59	7	5
squirrelfish	1,257	-25	-63	61	172
blacktip shark	1,154	-32	-21	15	33
scamp	1,025	80	15	207	250
porkfish	1,017	-14	-28	56	106

5 Dockside Intercept Sampling Program

Species with > 30 fish measured in the South Atlantic headboat fishery for 2023 are presented in Table 3⁴ with the percent contribution by region and percent difference to the 5-year and 10-year average number of samples measured per year.

Table 3: Species sampled dockside from headboats in the U.S. South Atlantic including distribution by region. The 5yr and 10yr column names represent the positive or negative percent difference compared to the five or ten year average for the given species (NCSC = North and South Carolina, GAFLn = Georgia and north Florida, and FLs = south Florida).

common	fish (n)	NCSC (%)	GAFLn (%)	FLs (%)	5yr (%)	10yr (%)
yellowtail snapper	3,001	0.0	0.3	99.6	67.1	6.0
white grunt	2,836	7.8	0.6	91.6	89.5	19.0
lane snapper	2,283		15.2	84.8	143.4	102.9
vermilion snapper	1,130	58.4	21.2	20.4	88.8	-13.1
gray snapper	919	0.2	21.4	78.3	42.8	-17.3
littlehead porgy	700			100.0	120.7	64.2
black sea bass	593	96.1	3.5	0.3	90.9	-27.9
spottail pinfish	549	99.3	0.7		141.9	134.1
blue runner	445		19.8	80.2	89.8	-20.3
tomtate	423	71.6	7.6	20.8	87.0	18.3
mutton snapper	416		6.5	93.5	112.5	-8.7
gray triggerfish	357	56.3	12.0	31.7	69.4	-29.4
jolthead porgy	300		0.3	99.7	102.7	43.5
graysby	296	8.8	9.5	81.8	90.0	100.5
king mackerel	293	4.4	6.8	88.7	98.2	17.4
little tunny	206	6.3	8.3	85.4	122.9	-5.5
red snapper	197	32.0	42.6	25.4	68.4	13.7

⁴Confidential data were replaced with *conf*

Table 3: *(continued)*

common	fish (n)	NCSC (%)	GAFLn (%)	FLs (%)	5yr (%)	10yr (%)
almaco jack	168	18.5	24.4	57.1	12.0	-13.9
scup	149	99.3	0.7		170.9	248.1
bigeye	143	1.4	2.1	96.5	60.7	15.7
knobbed porgy	142	6.3		93.7	22.6	-20.5
bluestriped grunt	135			100.0	125.0	69.0
whitebone porgy	134	17.2	24.6	58.2	72.7	-21.7
pigfish	126	87.3	4.0	8.7	62.8	1.1
blackfin snapper	121	0.8		99.2	130.0	201.0
Atlantic sharpnose shark	119	55.5	26.1	18.5	16.7	-59.8
blackfin tuna	116			100.0	95.9	38.6
sand tilefish	105			100.0	144.2	51.1
sand perch	88	83.0	1.1	15.9	107.5	81.4
cero	85			100.0	140.1	72.4
red grouper	83		2.4	97.6	111.7	-12.1
silk snapper	78			100.0	108.6	94.5
bank sea bass	77	93.5	6.5		108.1	26.9
greater amberjack	73	39.7	20.5	39.7	118.6	-19.7
rainbow runner	71			100.0	55.0	11.3
banded rudderfish	71	63.4	7.0	29.6	-9.9	-41.9
ocean triggerfish	70			100.0	2.6	-59.3
bluefish	69	2.9	31.9	65.2	63.5	23.0
Spanish mackerel	61	39.3	11.5	49.2	44.5	-9.2
dolphin	59	52.5		47.5	52.1	-21.6

Table 3: *(continued)*

common	fish (n)	NCSC (%)	GAFLn (%)	FLs (%)	5yr (%)	10yr (%)
sailors choice	56			100.0	18.6	-9.7
scamp	52	11.5		88.5	84.4	29.4
queen snapper	52			100.0	140.7	175.1
snowy grouper	50			100.0	201.2	42.5
blueline tilefish	42	7.1		92.9	101.9	-45.2
puddingwife	42			100.0	244.3	460.0
rock seabass	40	100.0			135.3	244.8
great barracuda	37	13.5	13.5	73.0	77.9	-11.1
red porgy	32	87.5		12.5	23.1	-70.6
schoolmaster snapper	31			100.0	115.3	30.8

6 Headboat Effort

Estimated angler days by year and region are presented in Table 4. Angler days are calculated as the number of anglers on a trip multiplied by the fraction of a 12 hour day (e.g. a half-day trip (0.5 days) with 20 anglers equals 10 angler days).

Table 4: Estimated annual effort (angler days) of headboats by region in U.s. South Atlantic (NCSC = North and South Carolina, GAFLn = Georgia and north Florida, and FLs = south Florida).

year	NCSC	GAFLn	FLs
1981	78,404	72,427	226,456
1982	94,478	66,961	226,172
1983	89,563	83,499	194,364
1984	96,179	95,234	193,760
1985	97,385	94,449	186,396
1986	98,414	113,101	203,957
1987	114,067	114,144	218,897
1988	118,889	109,156	192,619
1989	101,386	102,920	213,944
1990	100,391	98,234	224,661
1991	108,918	85,111	194,911
1992	102,966	90,810	173,713
1993	107,243	74,494	162,479
1994	99,922	65,745	177,036
1995	102,034	59,106	151,608
1996	90,071	47,239	152,618
1997	97,339	52,764	120,509
1998	98,741	51,790	103,551
1999	87,095	57,010	107,042
2000	71,642	59,771	122,478
2001	81,044	55,797	107,592
2002	70,068	48,911	102,635
2003	59,554	52,795	92,216
2004	76,018	52,243	123,157
2005	65,609	49,539	123,300
2006	81,810	48,908	126,614
2007	89,731	53,762	103,388

Table 4: *(continued)*

year	NCSC	GAFLn	FLs
2008	64,445	52,345	71,598
2009	60,387	66,447	69,973
2010	66,022	53,676	69,986
2011	63,102	54,707	77,785
2012	61,769	58,901	88,798
2013	61,510	66,587	99,092
2014	64,716	60,752	135,138
2015	62,418	54,480	140,499
2016	63,772	53,387	143,273
2017	57,084	48,304	77,822
2018	54,424	43,586	76,974
2019	57,022	43,139	76,573
2020	48,234	30,750	53,255
2021	67,627	47,396	72,971
2022	54,888	33,962	71,027
2023	51,929	31,842	73,831

7 Catch-per-unit-effort

This report presents catch-per-unit-effort (CPUE) calculated as the simple ratio of raw catch divided by raw effort (angler days). For CPUE to reflect true population abundance several factors must exist, which can be summed up in the term catchability. Catchability is best described as a measure of the overall efficiency of the fishery. Catchability can be affected by many factors including species targeting, management restrictions, gear changes, technology improvements, etc. All of these factors combine to affect the relationship between CPUE and true population abundance. Only under very strict, static conditions through time will CPUE reflect true population abundance. Therefore, the CPUE data presented in this report should be interpreted with an understanding of the factors that can affect catchability in the fishery. The CPUE values in this report are not the values that get used in the abundance index for stock assessments. The stock assessment process (e.g. SEDAR) typically employs statistical modelling techniques (e.g. GLM analysis) to account for co-varying factors that may affect catchability. Another consideration in interpreting the CPUE for each species is the range expansion of the survey in the early years. North and South Carolina have been in the survey since it's inception. North Florida and Georgia were added in 1976 and full coverage was achieved in 1978. Area 1, north of Cape Hatteras, NC, was included in the first few years of the survey and then dropped until being added back in 2009.

7.0.1 Hurricane Season (2021 - 2023)

Hurricane Nicole (Category 1) made landfall on November 10, 2022 in Southeast Florida near Vero Beach (SRHS area 11, Figure 1). Impacts from Hurricane Nicole were minimal. The SRHS fleet was not significantly impacted by hurricane activity in the South Atlantic from 2021 - 2023.

7.0.2 COVID-19

On March 16, 2020 NOAA port agents were instructed to cease sampling operations at the dock. Sampling did not resume for the remainder of 2020. Port Agents contracted through FWC were instructed to follow agency guidelines, and ceased sampling shortly after. All port agents were provided with data entry or QA/QC tasks for telework purposes. Throughout 2020 and 2021, SRHS vessels continued fishing in varying capacities while adhering to COVID safety guidelines. While SRHS port agents were not able to continue dockside sampling during this time, monitoring and communication with SRHS vessels were maintained to

ensure captains continued to report trip level catch and effort data. SRHS port agents contracted through FWC and GSMFC returned to dockside sampling in July and October 2021 respectively. In March of 2022, NOAA port agents also returned to dockside sampling. It is not clear if or how the changes in fishing practices during COVID-19 impacted fishing behavior (e.g. fishing location, average duration of trips, or species targeted) or catch rates.

8 Economic Data

Large for-hire fishing vessels, called headboats or partyboats, play an important role in the Southeast’s recreational fisheries. Headboats provide an affordable way for individual, often unscheduled, customers to participate in a half or full day (or longer) of bottom or drift fishing. The customer is typically charged \$40 to \$100 for a fishing trip that includes the gear, bait, and fishing instructions. We summarized the data collected on the number of crew, the number of non-fishing passengers, the gallons of fuel used, and the price paid per gallon of fuel from South Atlantic headboats during 2023. In previous years of this fact sheet, we removed the following from the database: trips more than 12 hours; trips by vessels that are not permitted to take more than six passengers; trips that took less than seven passengers; and trips by vessels that took fewer than 10 trips in the year. For 2020 and 2023 we did not remove any trips, i.e., we are reporting the summary statistics for the database as reported in the logbook. There were 61 South Atlantic headboats in the database for 2023 that reported a total of 10,969 trips.

Descriptive statistics for trips in the South Atlantic are presented in Table 5.

Table 5: Headboat trip characteristics (N=10,969)

	mean	sd	median	min	max
Gallons	61.23	95.02	30.00	1.00	2997.00
Price per Gallon	4.29	0.80	4.25	1.93	7.50
Anglers	21.64	15.27	17.00	1.00	118.00
Passengers	21.66	15.27	17.00	1.00	118.00
Crew	1.97	1.10	2.00	1.00	15.00

The average trip characteristics by duration of 2023 trips in the South Atlantic are shown in Table 6. Longer trips use more fuel on average, nearly doubling with each duration increment. The remaining trip characteristics also seem to increase with duration. However, the difference between each trip duration for each characteristic is not large.

Table 6: Headboat trip characteristics by trip duration

Duration	Gallons	\$/Gallon	Anglers	Passengers	Crew
1/2 day (3-5.99 hours)	34.84	4.25	19.95	19.97	1.81
3/4 day (6-7.99 hours)	63.48	4.48	24.56	24.58	2.15
Full day (8-9.99 hours)	118.82	4.53	25.95	26.01	2.51
Full day plus (10-12 hours)	208.50	4.05	28.64	28.65	2.44
other	447.94	3.76	21.55	21.55	3.65

The average gallons used per hour by month on headboat trips across the year in the South Atlantic is shown in Figure 2. Headboats tend to use the most fuel per hour during the summer months in the South Atlantic.

Figure 3 shows the average gallons used per headboat trip from each county. Similar maps are shown for the number of passengers (Figure 4) and the number of crew (Figure 5).

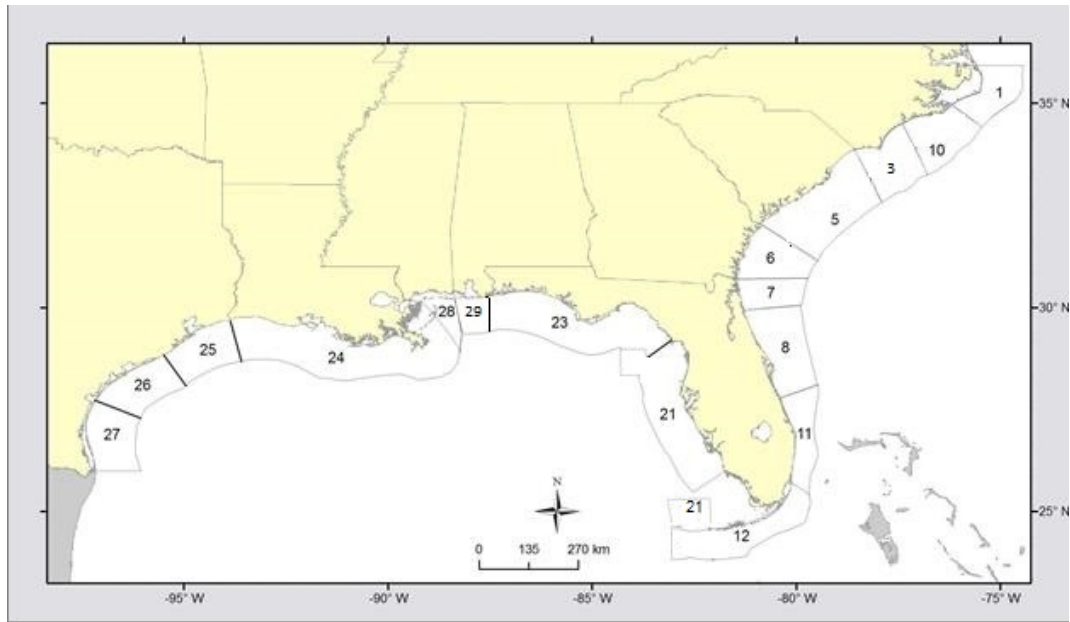


Figure 1: Headboat sampling areas since 2013. Prior to 2013 some areas had inshore and offshore strata that were assumed at the vessel level and there were very small areas to designate the Dry Tortugas and Florida middle grounds. Vessels are assigned to an area based on geographic location of the home port and fishing location history (typically a vessel is assigned to an area for the duration of fishing years in the survey). State-specific strata for Alabama and Mississippi were added over the course of the survey in order to split out landings at finer strata for data requests by states. Area 1 was sampled for a few years at the beginning of the survey and was added back to the survey in 2009.

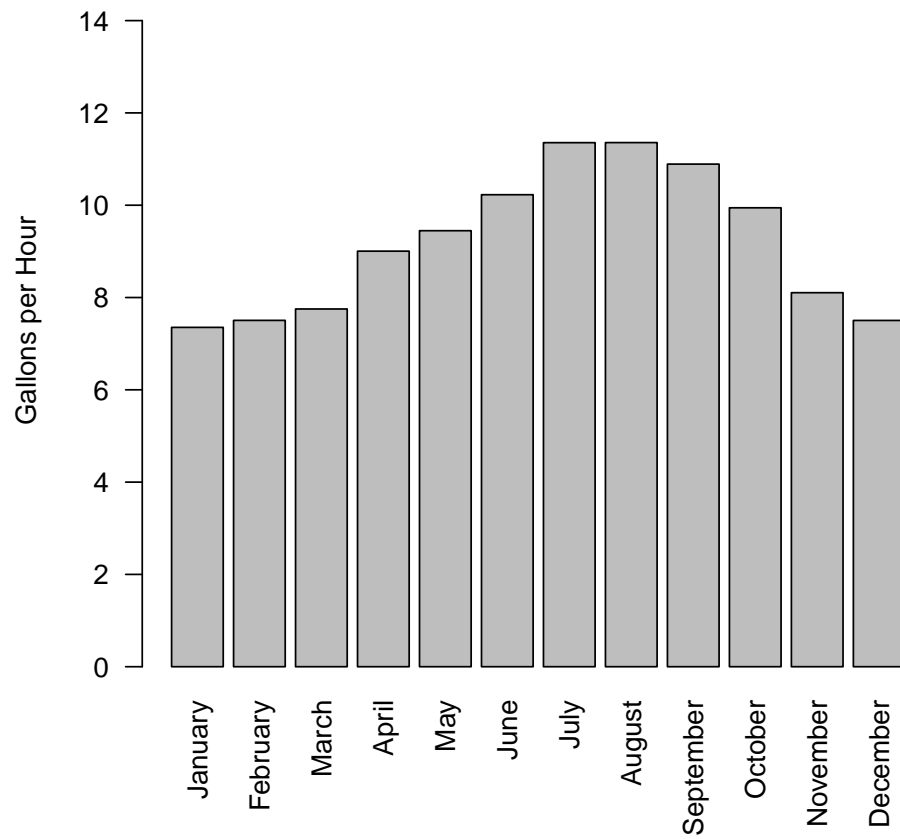


Figure 2: Gallons of fuel used per hour on headboat trips by month.

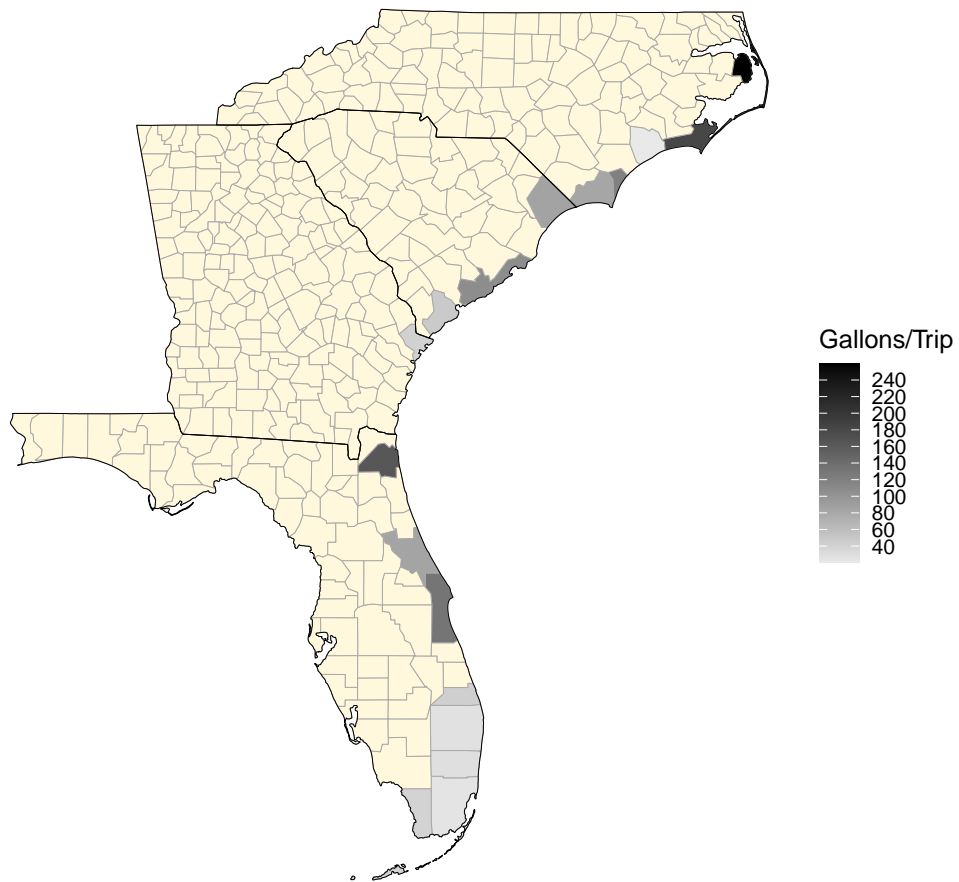


Figure 3: Gallons of fuel used on headboat trips by home port county.

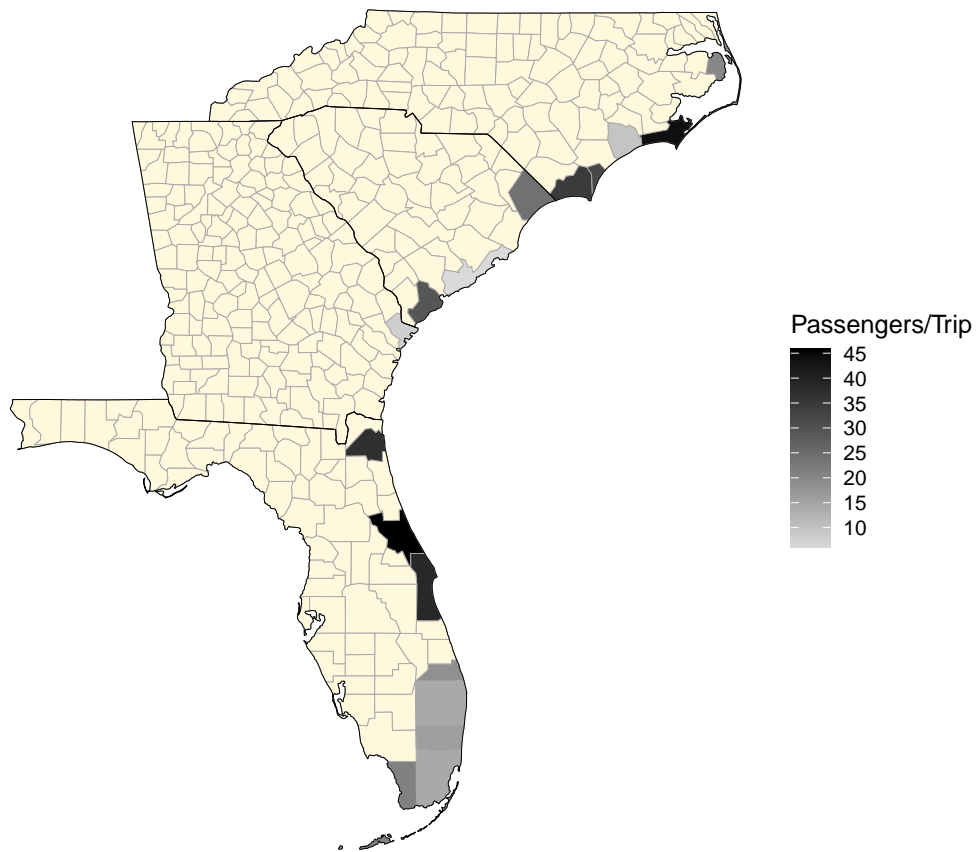


Figure 4: Number of passengers on headboat trips by home port county.

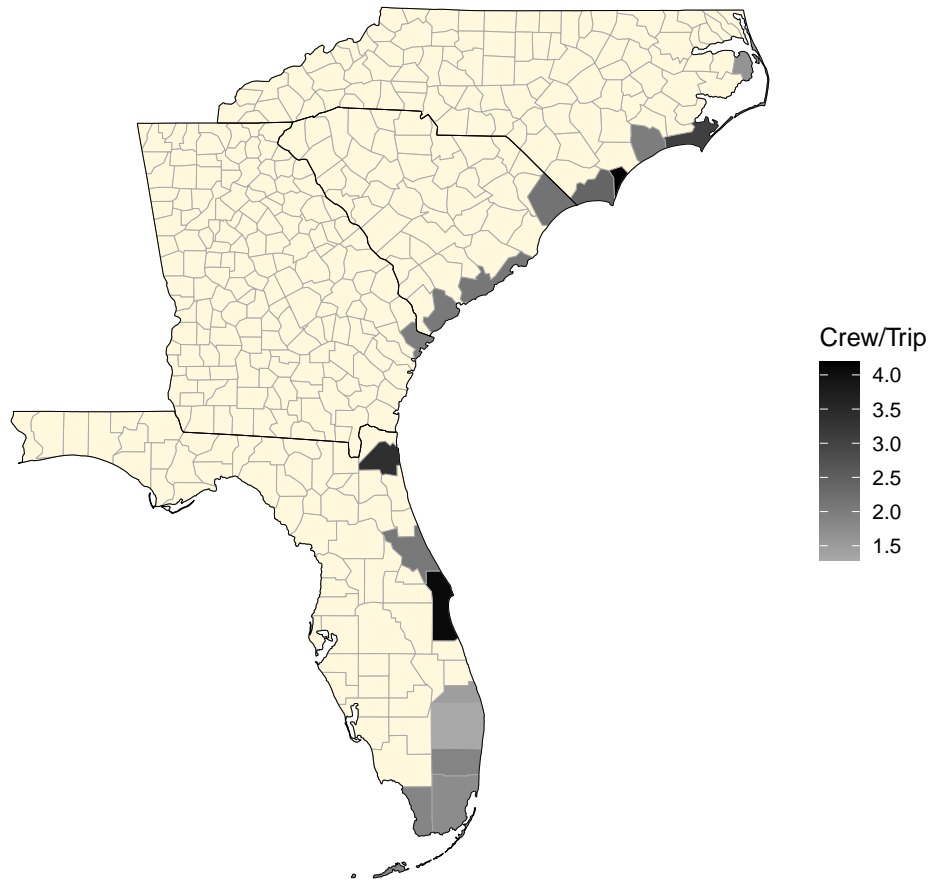


Figure 5: Number of crew members on headboat trips by home port county.

9 Species Overview

The following section provides species-specific summaries of landings, discards, dockside sampling, effort, and the nominal catch per unit effort time series⁵. Species included in the following summaries were chosen from the SAFMC snapper/grouper complex along with additional pelagic species that are encountered frequently in the survey and are typically of interest to the Council.

⁵Confidential data were replaced with *conf*

9.1 almaco jack⁶

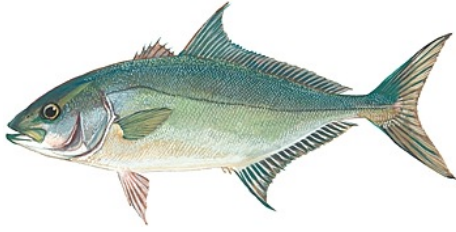


Figure 6: almaco jack (*Seriola rivoliana*).

9.1.1 Landings

Table 7: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	4,658	32,067
2015	6,938	27,406
2016	6,638	32,928
2017	6,822	38,298
2018	8,327	46,457
2019	13,001	55,348
2020	11,976	32,381
2021	12,410	19,013
2022	10,313	27,927
2023	10,331	77,192

9.1.2 Discards

Table 8: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	90	156	100
2015	146	133	109
2016	1,421	1,269	168
2017	295	39	45
2018	350	241	203
2019	3,058	645	287
2020	839	146	119
2021	857	800	183
2022	701	109	142
2023	615	14	77

⁶Confidential data were replaced with *conf*

9.1.3 Fish Size

Table 9: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	31	31	20.2	4.0
GAFLn	40	41	18.3	2.9
FLs	95	87	21.6	5.8
5yr	740	721	18.7	3.7
10yr	1,932	1,848	18.7	3.6

9.1.4 Effort

Table 10: Annual effort in numbers of trips where almaco jack was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	301	184	684
2015	378	432	870
2016	457	447	623
2017	468	291	496
2018	346	390	578
2019	444	567	599
2020	589	308	262
2021	530	475	369
2022	439	395	369
2023	516	228	250

9.1.5 Catch Per Unit Effort (CPUE)

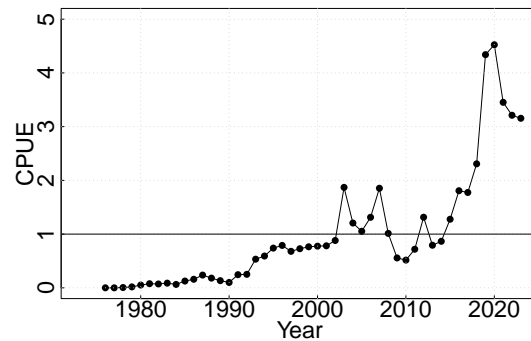


Figure 7: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.2 Atlantic spadefish⁷



Figure 8: Atlantic spadefish (*Chaetodipterus faber*).

9.2.1 Landings

Table 11: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	120	299
2015	194	829
2016	545	1,703
2017	159	923
2018	141	275
2019	351	839
2020	236	678
2021	475	1,366
2022	186	528
2023	94	245

9.2.2 Discards

Table 12: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	34	2	7
2015	<i>conf</i>	1	31
2016	<i>conf</i>	20	188
2017		1	5
2018	<i>conf</i>	1	6
2019	<i>conf</i>		13
2020	<i>conf</i>	5	15
2021	<i>conf</i>	11	2
2022	<i>conf</i>		<i>conf</i>
2023	1,760		50

⁷Confidential data were replaced with *conf*

9.2.3 Fish Size

Table 13: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	1	1	11.9	1.8
GAFLn	1	1	16.0	3.4
FLs	2	2	12.2	2.0
5yr	16	16	14.1	3.0
10yr	78	75	16.0	4.6

9.2.4 Effort

Table 14: Annual effort in numbers of trips where Atlantic spadefish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	9	52	8
2015	<i>conf</i>	61	19
2016	<i>conf</i>	77	24
2017		51	6
2018	<i>conf</i>	19	7
2019	<i>conf</i>	55	13
2020	<i>conf</i>	84	5
2021	<i>conf</i>	94	3
2022	<i>conf</i>	63	<i>conf</i>
2023	40	33	18

9.2.5 Catch Per Unit Effort (CPUE)

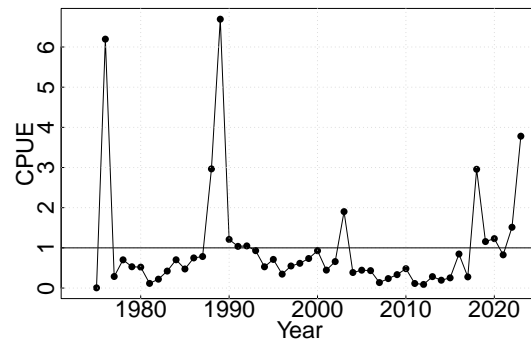


Figure 9: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.3 banded rudderfish⁸



Figure 10: banded rudderfish (*Seriola zonata*).

9.3.3 Fish Size

Table 17: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	45	45	17.7	2.6
GAFLn	5	5	17.1	1.8
FLs	21	19	23.1	4.3
5yr	394	377	20.2	3.3
10yr	1,219	1,157	18.9	2.9

9.3.1 Landings

Table 15: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	10,878	42,193
2015	8,415	18,693
2016	6,071	26,616
2017	9,043	17,375
2018	13,324	31,443
2019	17,118	45,657
2020	6,469	17,960
2021	7,895	22,962
2022	9,811	24,285
2023	8,392	22,436

9.3.4 Effort

Table 18: Annual effort in numbers of trips where banded rudderfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	307	37	577
2015	282	96	542
2016	255	58	542
2017	362	58	323
2018	262	154	521
2019	336	226	379
2020	323	145	109
2021	342	99	252
2022	260	50	235
2023	291	21	249

9.3.2 Discards

Table 16: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	454	32	1,710
2015	238	189	712
2016	1,129	71	1,073
2017	986	47	424
2018	1,724	157	600
2019	3,737	1,191	459
2020	182	191	72
2021	155	125	129
2022	296	8	225
2023	154	1	40

9.3.5 Catch Per Unit Effort (CPUE)

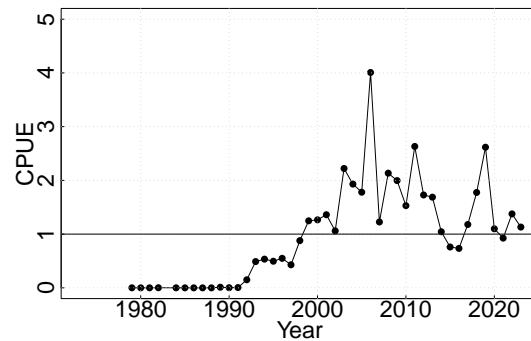


Figure 11: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁸Confidential data were replaced with *conf*

9.4 bank sea bass⁹



Figure 12: bank sea bass (*Centropristis ocyurus*).

9.4.3 Fish Size

Table 21: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	72	72	10.3	0.5
GAFLn	5	5	10.8	0.4
FLs				
5yr	185	185	10.2	0.4
10yr	605	599	10.1	0.4

9.4.1 Landings

Table 19: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	4,546	2,241
2015	5,460	2,308
2016	5,779	2,296
2017	6,623	3,055
2018	3,373	1,569
2019	5,158	2,459
2020	3,754	1,774
2021	8,947	4,090
2022	4,989	2,923
2023	6,453	2,606

9.4.4 Effort

Table 22: Annual effort in numbers of trips where bank sea bass was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	433	73	15
2015	472	74	<i>conf</i>
2016	559	83	<i>conf</i>
2017	730	46	<i>conf</i>
2018	432	65	<i>conf</i>
2019	794	78	
2020	648	<i>conf</i>	<i>conf</i>
2021	1,228	<i>conf</i>	<i>conf</i>
2022	775	<i>conf</i>	<i>conf</i>
2023	709	<i>conf</i>	<i>conf</i>

9.4.2 Discards

Table 20: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,762	409	8
2015	3,878	293	<i>conf</i>
2016	1,834	280	<i>conf</i>
2017	2,141	228	<i>conf</i>
2018	3,491	125	<i>conf</i>
2019	4,396	481	
2020	1,585	<i>conf</i>	<i>conf</i>
2021	3,086	<i>conf</i>	<i>conf</i>
2022	1,833	<i>conf</i>	<i>conf</i>
2023	1,551	<i>conf</i>	<i>conf</i>

9.4.5 Catch Per Unit Effort (CPUE)

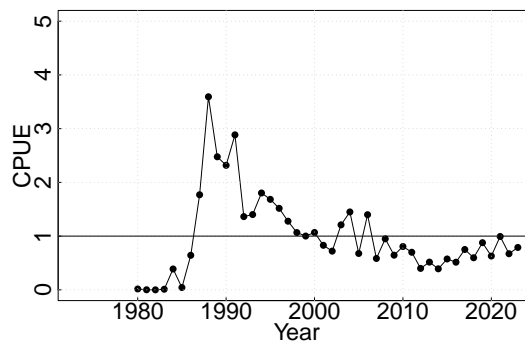


Figure 13: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁹Confidential data were replaced with *conf*

9.5 bar jack¹⁰



Figure 14: bar jack (*Caranx ruber*).

9.5.3 Fish Size

Table 25: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	24	24	12.4	0.8
5yr	54	52	13.6	0.9
10yr	80	77	13.8	1.0

9.5.1 Landings

Table 23: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	694	1,031
2015	611	534
2016	176	156
2017	209	348
2018	148	287
2019	55	63
2020	72	83
2021	252	290
2022	81	50
2023	100	78

9.5.4 Effort

Table 26: Annual effort in numbers of trips where bar jack was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		59	213
2015	<i>conf</i>	20	173
2016		<i>conf</i>	122
2017	3	<i>conf</i>	99
2018	<i>conf</i>	<i>conf</i>	52
2019	<i>conf</i>	<i>conf</i>	12
2020	10	15	19
2021		24	5
2022		<i>conf</i>	20
2023		<i>conf</i>	19

9.5.2 Discards

Table 24: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		3	49
2015	<i>conf</i>	1	16
2016		<i>conf</i>	133
2017		<i>conf</i>	4
2018	<i>conf</i>	<i>conf</i>	4
2019	<i>conf</i>	<i>conf</i>	10
2020	28		28
2021		46	2
2022		<i>conf</i>	10
2023		<i>conf</i>	43

9.5.5 Catch Per Unit Effort (CPUE)

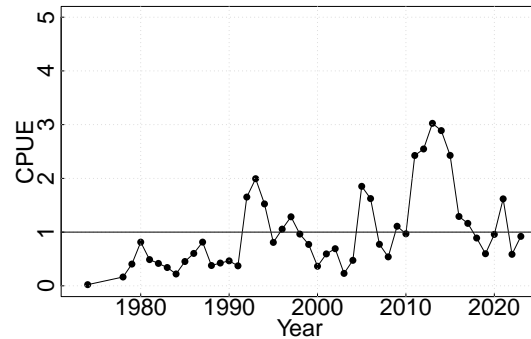


Figure 15: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

¹⁰Confidential data were replaced with *conf*

9.6 black grouper¹¹

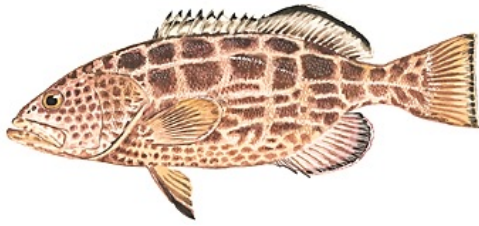


Figure 16: black grouper (*Mycteroperca bonaci*).

9.6.1 Landings

Table 27: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	378	5,315
2015	461	6,809
2016	391	6,405
2017	307	5,236
2018	287	4,246
2019	208	2,981
2020	210	2,531
2021	219	2,895
2022	101	1,507
2023	50	609

9.6.2 Discards

Table 28: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	2	<i>conf</i>	1,104
2015			602
2016	<i>conf</i>	<i>conf</i>	366
2017	<i>conf</i>		645
2018		<i>conf</i>	1,161
2019	<i>conf</i>	<i>conf</i>	566
2020			403
2021	<i>conf</i>	<i>conf</i>	438
2022		<i>conf</i>	285
2023	<i>conf</i>		209

¹¹Confidential data were replaced with *conf*

9.6.3 Fish Size

Table 29: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	6	6	32.8	21.6
5yr	34	33	31.0	17.2
10yr	300	287	30.5	16.2

9.6.4 Effort

Table 30: Annual effort in numbers of trips where black grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	3	<i>conf</i>	801
2015			540
2016	<i>conf</i>	<i>conf</i>	394
2017	<i>conf</i>		526
2018		<i>conf</i>	794
2019	<i>conf</i>	<i>conf</i>	465
2020			340
2021	<i>conf</i>	<i>conf</i>	352
2022		<i>conf</i>	245
2023	<i>conf</i>		194

9.6.5 Catch Per Unit Effort (CPUE)

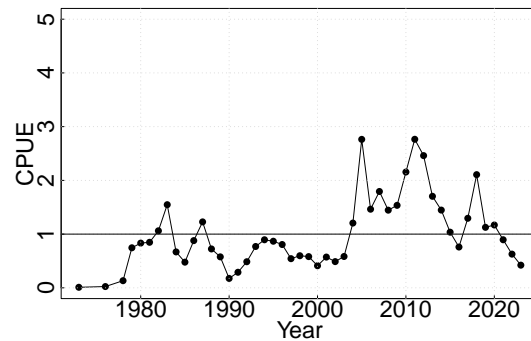


Figure 17: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.7 black sea bass¹²

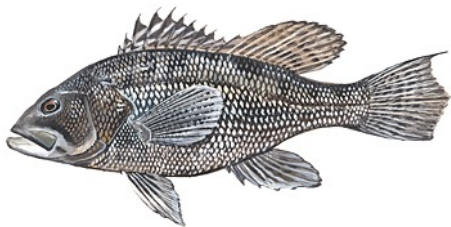


Figure 18: black sea bass (*Centropristis striata*).

9.7.1 Landings

Table 31: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	79,603	104,870
2015	62,957	80,771
2016	50,918	66,698
2017	43,062	54,377
2018	46,551	57,649
2019	36,986	45,611
2020	25,519	31,883
2021	29,694	25,611
2022	26,992	37,190
2023	26,045	33,665

9.7.2 Discards

Table 32: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	536,836	79,877	37,945
2015	574,970	71,756	12,810
2016	493,343	49,996	9,501
2017	364,571	22,671	10,678
2018	341,560	18,620	7,161
2019	356,133	17,309	5,362
2020	228,103	11,654	3,142
2021	337,354	10,196	2,567
2022	282,070	10,360	2,126
2023	240,561	5,676	2,651

¹²Confidential data were replaced with *conf*

9.7.3 Fish Size

Table 33: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	570	570	13.8	1.3
GAFLn	21	21	13.9	1.2
FLs	2	2	13.9	1.2
5yr	1,553	1,539	13.9	1.3
10yr	8,214	8,084	13.8	1.3

9.7.4 Effort

Table 34: Annual effort in numbers of trips where black sea bass was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	2,685	1,631	740
2015	2,694	1,485	550
2016	2,798	1,364	542
2017	2,425	1,144	641
2018	2,139	926	480
2019	2,296	808	369
2020	2,129	460	247
2021	2,724	325	211
2022	2,140	341	210
2023	1,939	164	301

9.7.5 Catch Per Unit Effort (CPUE)

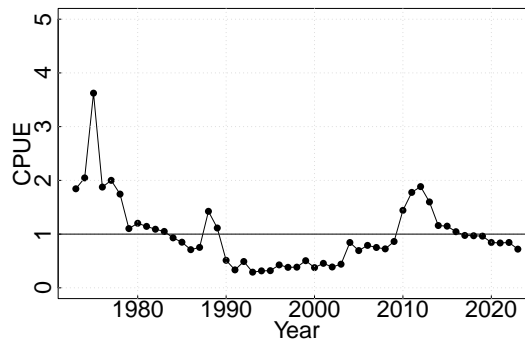


Figure 19: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.8 black snapper¹³

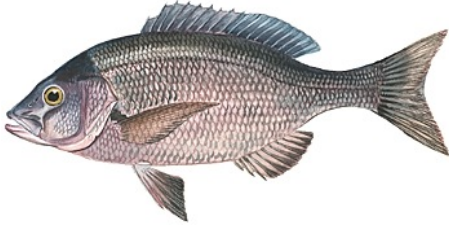


Figure 20: black snapper (*Apsilus dentatus*).

9.8.1 Landings

Table 35: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	2	3
2015	<i>conf</i>	<i>conf</i>
2016	10	9
2017		
2018	<i>conf</i>	<i>conf</i>
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>
2023	<i>conf</i>	<i>conf</i>

9.8.2 Discards

Table 36: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	<i>conf</i>
2015			<i>conf</i>
2016	<i>conf</i>		48
2017			
2018			<i>conf</i>
2019			<i>conf</i>
2020			<i>conf</i>
2021	<i>conf</i>		
2022			<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

¹³Confidential data were replaced with *conf*

9.8.3 Fish Size

Table 37: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr				

9.8.4 Effort

Table 38: Annual effort in numbers of trips where black snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	<i>conf</i>
2015			<i>conf</i>
2016	<i>conf</i>		4
2017			
2018			<i>conf</i>
2019			<i>conf</i>
2020			<i>conf</i>
2021	<i>conf</i>		
2022			<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

9.8.5 Catch Per Unit Effort (CPUE)

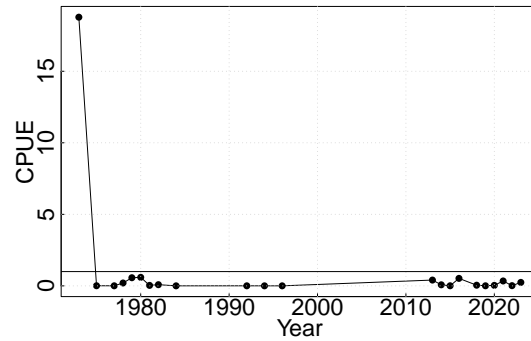


Figure 21: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.9 blackfin snapper¹⁴



Figure 22: blackfin snapper (*Lutjanus buccanella*).

9.9.3 Fish Size

Table 41: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	1	1	12.2	0.9
GAFLn				
FLs	120	104	15.9	3.0
5yr	263	241	15.4	2.6
10yr	402	370	16.2	2.8

9.9.1 Landings

Table 39: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	692	2,105
2015	811	3,540
2016	929	1,891
2017	957	2,872
2018	<i>conf</i>	<i>conf</i>
2019	2,021	6,077
2020	1,126	446
2021	1,798	712
2022	3,259	8,746
2023	2,965	7,467

9.9.4 Effort

Table 42: Annual effort in numbers of trips where blackfin snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			40
2015			42
2016			53
2017			37
2018			<i>conf</i>
2019			49
2020	<i>conf</i>		56
2021			64
2022	<i>conf</i>	<i>conf</i>	103
2023	<i>conf</i>		77

9.9.2 Discards

Table 40: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			65
2015			109
2016			105
2017			41
2018			<i>conf</i>
2019			362
2020	<i>conf</i>		69
2021			41
2022	<i>conf</i>	<i>conf</i>	212
2023	<i>conf</i>		42

9.9.5 Catch Per Unit Effort (CPUE)

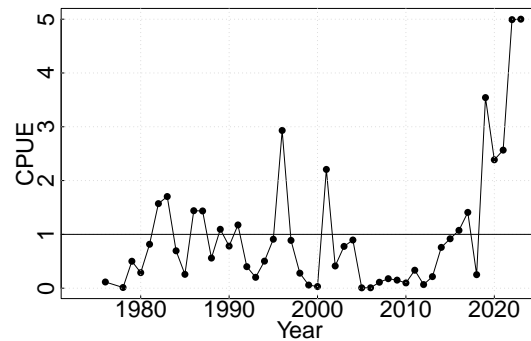


Figure 23: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

¹⁴Confidential data were replaced with *conf*

9.10 blueline tilefish¹⁵



Figure 24: blueline tilefish (*Caulolatilus microps*).

9.10.1 Landings

Table 43: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	7,540	18,352
2015	3,791	15,886
2016	2,074	10,418
2017	2,187	10,222
2018	1,248	5,829
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	2,176	1,275
2022	700	4,066
2023	<i>conf</i>	<i>conf</i>

9.10.2 Discards

Table 44: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		2
2015	<i>conf</i>		
2016	<i>conf</i>		<i>conf</i>
2017	<i>conf</i>		<i>conf</i>
2018	<i>conf</i>		<i>conf</i>
2019	<i>conf</i>		<i>conf</i>
2020	<i>conf</i>		<i>conf</i>
2021	<i>conf</i>		<i>conf</i>
2022	<i>conf</i>		<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

¹⁵Confidential data were replaced with *conf*

9.10.3 Fish Size

Table 45: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	39	25	22.4	5.2
5yr	76	80	22.7	3.5
10yr	738	543	20.2	3.5

9.10.4 Effort

Table 46: Annual effort in numbers of trips where blueline tilefish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		60
2015	<i>conf</i>		35
2016	<i>conf</i>		<i>conf</i>
2017	<i>conf</i>		<i>conf</i>
2018	<i>conf</i>		<i>conf</i>
2019	<i>conf</i>		<i>conf</i>
2020	<i>conf</i>		<i>conf</i>
2021	<i>conf</i>		<i>conf</i>
2022	<i>conf</i>		<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

9.10.5 Catch Per Unit Effort (CPUE)

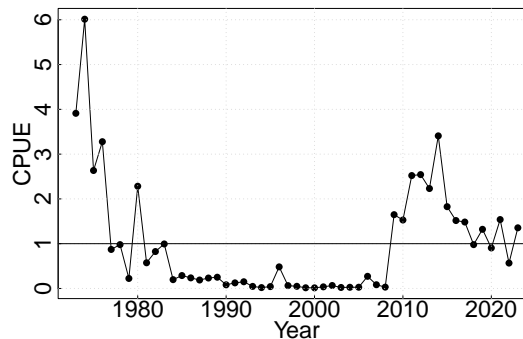


Figure 25: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.11 cobia¹⁶



Figure 26: cobia (*Rachycentron canadum*).

9.11.3 Fish Size

Table 49: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	9	9	43.1	21.8
GAFLn	14	14	45.1	26.2
FLs	5	5	49.7	23.3
5yr	129	129	42.2	20.6
10yr	494	471	42.4	21.2

9.11.1 Landings

Table 47: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,786	41,813
2015	1,261	24,892
2016	1,233	22,217
2017	660	15,699
2018	694	13,319
2019	797	15,045
2020	597	9,784
2021	677	11,184
2022	563	14,363
2023	349	11,776

9.11.4 Effort

Table 50: Annual effort in numbers of trips where cobia was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	179	470	1,070
2015	88	613	662
2016	90	552	562
2017	57	400	372
2018	70	416	384
2019	97	371	409
2020	96	412	263
2021	107	553	216
2022	57	375	161
2023	90	291	171

9.11.2 Discards

Table 48: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	86	558	1,096
2015	67	858	485
2016	92	556	575
2017	114	397	353
2018	115	593	453
2019	273	615	351
2020	75	960	337
2021	117	2,157	216
2022	59	804	287
2023	133	1,326	231

9.11.5 Catch Per Unit Effort (CPUE)

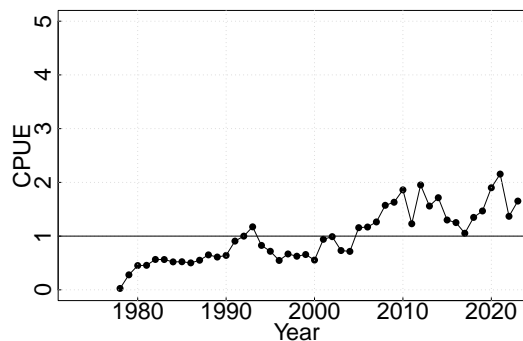


Figure 27: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

¹⁶Confidential data were replaced with *conf*

9.12 coney¹⁷



Figure 28: coney (*Cephalopholis fulva*).

9.12.3 Fish Size

Table 53: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	1	1	8.6	0.4
5yr	4	4	10.1	0.8
10yr	42	39	11.1	0.9

9.12.1 Landings

Table 51: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	158	103
2015	242	263
2016	154	138
2017	64	59
2018	10	13
2019	8	7
2020	<i>conf</i>	<i>conf</i>
2021	137	238
2022	22	27
2023	31	37

9.12.4 Effort

Table 54: Annual effort in numbers of trips where coney was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			208
2015			293
2016	<i>conf</i>	<i>conf</i>	252
2017			111
2018		<i>conf</i>	25
2019			7
2020			<i>conf</i>
2021	<i>conf</i>		16
2022	<i>conf</i>		14
2023	<i>conf</i>		12

9.12.2 Discards

Table 52: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			139
2015			189
2016	<i>conf</i>	<i>conf</i>	295
2017			86
2018		<i>conf</i>	34
2019			1
2020			<i>conf</i>
2021	<i>conf</i>		13
2022	<i>conf</i>		15
2023	<i>conf</i>		11

9.12.5 Catch Per Unit Effort (CPUE)

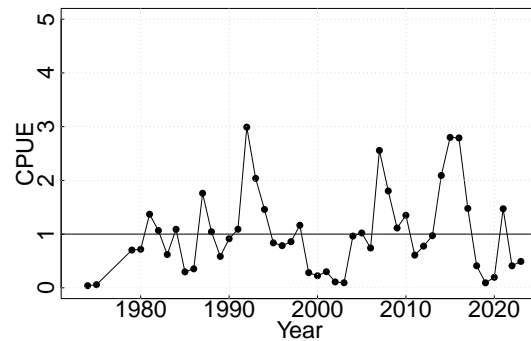


Figure 29: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

¹⁷Confidential data were replaced with *conf*

9.13 cottonwick¹⁸



Figure 30: cottonwick (*Haemulon melanurum*).

9.13.1 Landings

Table 55: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	12	7
2015	81	55
2016	436	274
2017	275	156
2018	<i>conf</i>	<i>conf</i>
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	1,160	582
2023	268	140

9.13.2 Discards

Table 56: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			23
2015			812
2016			1,237
2017			350
2018			<i>conf</i>
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			166
2023			33

¹⁸Confidential data were replaced with *conf*

9.13.3 Fish Size

Table 57: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	8	7	9.5	0.5
5yr	169	142	10.3	0.6
10yr	243	205	10.3	0.6

9.13.4 Effort

Table 58: Annual effort in numbers of trips where cottonwick was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			8
2015			110
2016			124
2017			45
2018			<i>conf</i>
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			33
2023			21

9.13.5 Catch Per Unit Effort (CPUE)

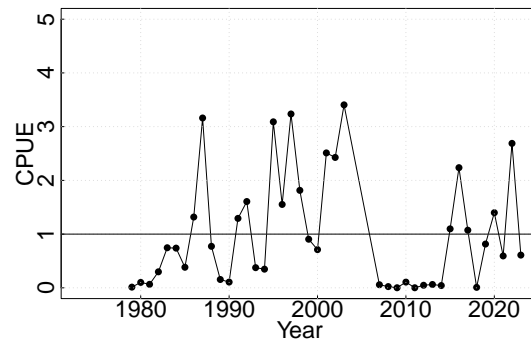


Figure 31: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.14 cubera snapper¹⁹

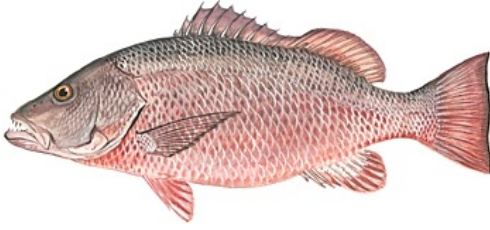


Figure 32: cubera snapper (*Lutjanus cyanopterus*).

9.14.1 Landings

Table 59: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	10	101
2015	40	576
2016	11	206
2017	<i>conf</i>	<i>conf</i>
2018	8	139
2019	5	103
2020	29	641
2021	157	3,779
2022	441	9,280
2023	3	37

9.14.2 Discards

Table 60: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		1
2015	<i>conf</i>		
2016	<i>conf</i>	<i>conf</i>	<i>conf</i>
2017		<i>conf</i>	<i>conf</i>
2018	<i>conf</i>		3
2019		<i>conf</i>	
2020			1
2021	<i>conf</i>	<i>conf</i>	5
2022	<i>conf</i>		4
2023	<i>conf</i>		<i>conf</i>

¹⁹Confidential data were replaced with *conf*

9.14.3 Fish Size

Table 61: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	3	3	28.3	12.3
5yr	3	3	28.3	12.3
10yr	12	11	30.3	17.7

9.14.4 Effort

Table 62: Annual effort in numbers of trips where cubera snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		9
2015	<i>conf</i>		30
2016	<i>conf</i>	<i>conf</i>	<i>conf</i>
2017		<i>conf</i>	<i>conf</i>
2018	<i>conf</i>		8
2019		<i>conf</i>	4
2020	4		13
2021	<i>conf</i>	<i>conf</i>	50
2022	<i>conf</i>		73
2023	<i>conf</i>		<i>conf</i>

9.14.5 Catch Per Unit Effort (CPUE)

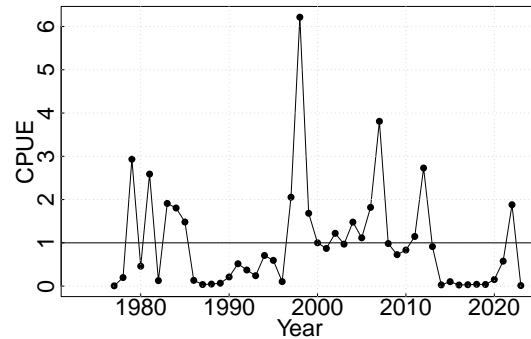


Figure 33: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.15 dog snapper²⁰



Figure 34: dog snapper (*Lutjanus jocu*).

9.15.1 Landings

Table 63: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	24	73
2015	65	418
2016	74	414
2017	50	277
2018	75	169
2019	48	175
2020	61	198
2021	65	221
2022	40	90
2023	53	136

9.15.2 Discards

Table 64: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	5
2015			1
2016	<i>conf</i>	<i>conf</i>	
2017			3
2018		<i>conf</i>	22
2019			2
2020		<i>conf</i>	5
2021			2
2022		<i>conf</i>	4
2023			5

²⁰Confidential data were replaced with *conf*

9.15.3 Fish Size

Table 65: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	1	1	11.1	1.0
5yr	15	15	16.7	3.7
10yr	42	40	16.9	4.1

9.15.4 Effort

Table 66: Annual effort in numbers of trips where dog snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	23
2015			41
2016	<i>conf</i>	<i>conf</i>	43
2017			46
2018		<i>conf</i>	36
2019			38
2020		<i>conf</i>	34
2021			36
2022		<i>conf</i>	32
2023			41

9.15.5 Catch Per Unit Effort (CPUE)

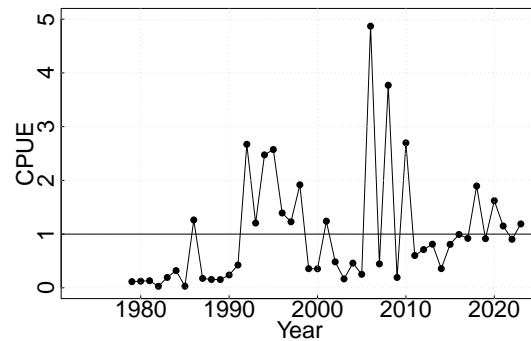


Figure 35: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.16 dolphin²¹



Figure 36: dolphin (*Coryphaena hippurus*).

9.16.3 Fish Size

Table 69: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	31	30	26.6	4.4
GAFLn				
FLs	27	26	35.4	8.5
5yr	178	185	29.5	5.3
10yr	723	688	31.4	6.8

9.16.1 Landings

Table 67: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	3,807	27,801
2015	4,446	28,019
2016	4,161	36,746
2017	2,713	15,330
2018	2,443	19,049
2019	2,627	10,631
2020	1,394	6,495
2021	1,750	6,895
2022	1,663	9,853
2023	1,966	8,680

9.16.4 Effort

Table 70: Annual effort in numbers of trips where dolphin was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	243	87	893
2015	168	98	1,025
2016	217	56	741
2017	153	79	487
2018	148	43	473
2019	101	59	367
2020	109	50	335
2021	157	45	339
2022	148	43	329
2023	99	20	175

9.16.2 Discards

Table 68: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	9	46	673
2015	71	32	568
2016	12	8	281
2017	4	17	367
2018	1	18	335
2019	1	8	357
2020		23	400
2021	6	19	337
2022	61	6	374
2023	7		329

9.16.5 Catch Per Unit Effort (CPUE)

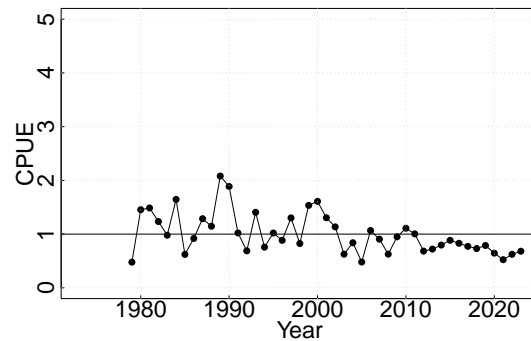


Figure 37: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

²¹Confidential data were replaced with *conf*

9.17 gag²²

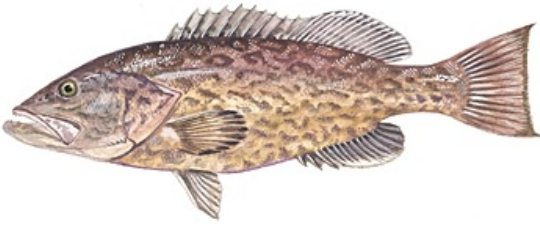


Figure 38: gag (*Mycteroperca microlepis*).

9.17.3 Fish Size

Table 73: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	22	22	28.4	10.7
GAFLn	6	6	33.2	15.6
FLs	1	1	33.7	17.1
5yr	80	78	29.1	11.9
10yr	388	378	28.6	11.3

9.17.1 Landings

Table 71: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,042	11,602
2015	872	11,195
2016	637	8,211
2017	639	6,333
2018	786	7,705
2019	463	5,150
2020	497	6,046
2021	565	5,457
2022	496	5,075
2023	435	4,440

9.17.4 Effort

Table 74: Annual effort in numbers of trips where gag was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	436	218	343
2015	369	231	259
2016	361	196	140
2017	288	163	95
2018	286	210	61
2019	245	142	54
2020	365	75	56
2021	506	194	76
2022	416	91	56
2023	467	87	27

9.17.2 Discards

Table 72: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	657	342	367
2015	528	286	313
2016	546	289	146
2017	463	159	69
2018	448	212	62
2019	245	183	53
2020	583	62	39
2021	930	239	83
2022	752	114	88
2023	1,213	192	23

9.17.5 Catch Per Unit Effort (CPUE)

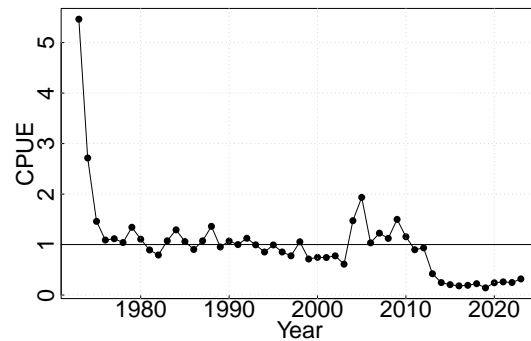


Figure 39: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

²²Confidential data were replaced with *conf*

9.18 goliath grouper²³

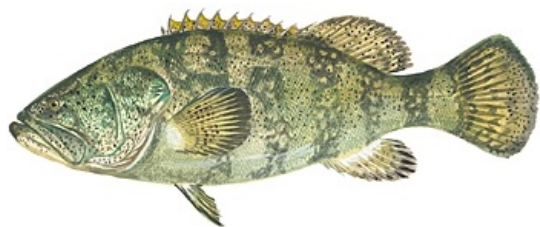


Figure 40: goliath grouper (*Epinephelus itajara*).

9.18.1 Landings

Table 75: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014		
2015		
2016		
2017	4	35
2018		
2019		
2020		
2021		
2022		
2023		

9.18.2 Discards

Table 76: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		24	69
2015		9	77
2016		210	102
2017		<i>conf</i>	54
2018		<i>conf</i>	42
2019		<i>conf</i>	34
2020		<i>conf</i>	32
2021		1,281	27
2022		952	21
2023		<i>conf</i>	23

²³Confidential data were replaced with *conf*

9.18.3 Fish Size

Table 77: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr				

9.18.4 Effort

Table 78: Annual effort in numbers of trips where goliath grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		8	40
2015		9	42
2016		67	62
2017		<i>conf</i>	38
2018		<i>conf</i>	36
2019		<i>conf</i>	25
2020		<i>conf</i>	19
2021		221	25
2022		167	20
2023		<i>conf</i>	23

9.18.5 Catch Per Unit Effort (CPUE)

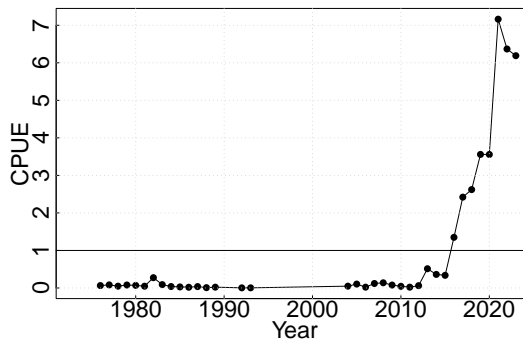


Figure 41: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.19 gray snapper²⁴

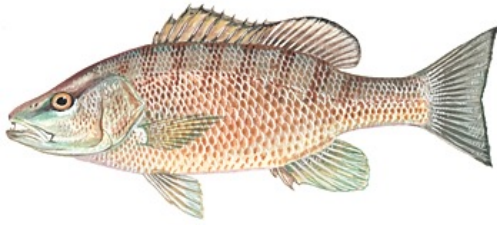


Figure 42: gray snapper (*Lutjanus griseus*).

9.19.1 Landings

Table 79: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	78,678	119,603
2015	62,259	95,589
2016	67,277	97,979
2017	47,014	71,994
2018	54,051	70,688
2019	44,108	57,405
2020	38,831	40,967
2021	40,157	53,180
2022	34,444	43,399
2023	34,369	42,904

9.19.2 Discards

Table 80: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	140	317	12,153
2015	<i>conf</i>	573	13,084
2016		214	12,234
2017	25	48	5,661
2018	<i>conf</i>	1,109	6,649
2019	<i>conf</i>	508	7,482
2020	<i>conf</i>	265	10,023
2021	<i>conf</i>	939	9,849
2022		508	9,382
2023		669	10,152

²⁴Confidential data were replaced with *conf*

9.19.3 Fish Size

Table 81: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	2	2	23.7	6.0
GAFLn	191	197	16.7	2.2
FLs	719	533	13.0	1.2
5yr	3,204	2,766	13.6	1.4
10yr	11,072	9,998	13.7	1.5

9.19.4 Effort

Table 82: Annual effort in numbers of trips where gray snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	19	839	4,929
2015	<i>conf</i>	812	4,789
2016		842	4,269
2017	6	804	3,301
2018	<i>conf</i>	678	3,496
2019	<i>conf</i>	732	3,176
2020	<i>conf</i>	575	2,734
2021	<i>conf</i>	836	2,566
2022		488	2,489
2023	6	597	2,794

9.19.5 Catch Per Unit Effort (CPUE)

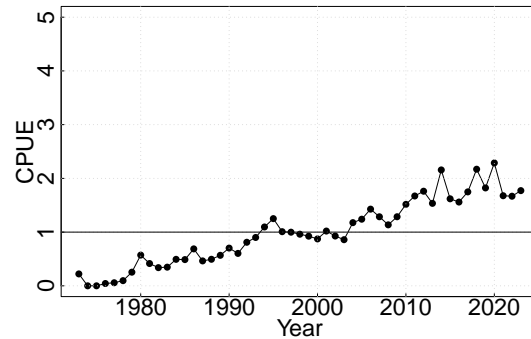


Figure 43: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.20 gray triggerfish²⁵



Figure 44: gray triggerfish (*Balistes capriscus*).

9.20.1 Landings

Table 83: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	53,108	113,273
2015	45,972	109,601
2016	37,840	80,414
2017	43,358	86,649
2018	35,091	72,444
2019	35,769	58,178
2020	28,141	59,817
2021	26,189	54,658
2022	26,199	56,876
2023	21,480	43,252

9.20.2 Discards

Table 84: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	584	841	10,726
2015	934	1,853	27,478
2016	2,949	4,784	59,474
2017	3,170	2,717	22,679
2018	2,537	2,284	19,075
2019	7,581	2,782	16,123
2020	3,437	879	10,202
2021	5,890	778	7,949
2022	4,425	765	12,475
2023	2,307	473	10,514

²⁵Confidential data were replaced with *conf*

9.20.3 Fish Size

Table 85: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	201	201	13.0	1.9
GAFLn	43	43	14.4	2.3
FLs	113	102	13.0	1.9
5yr	963	1,036	13.7	2.1
10yr	4,966	4,846	13.6	2.2

9.20.4 Effort

Table 86: Annual effort in numbers of trips where gray triggerfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	825	1,244	3,618
2015	766	1,040	4,215
2016	770	1,068	4,253
2017	796	906	2,698
2018	535	787	2,088
2019	639	845	1,683
2020	622	649	1,123
2021	685	654	1,024
2022	658	544	1,021
2023	657	374	1,624

9.20.5 Catch Per Unit Effort (CPUE)

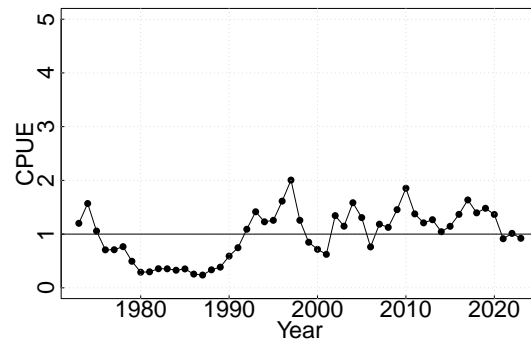


Figure 45: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.21 graysby²⁶

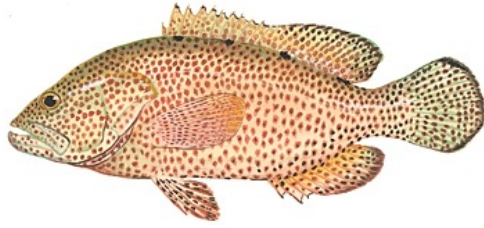


Figure 46: graysby (*Cephalopholis cruentata*).

9.21.1 Landings

Table 87: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	2,484	1,986
2015	2,420	1,905
2016	2,081	1,970
2017	2,260	2,118
2018	2,515	2,451
2019	1,969	1,495
2020	3,115	3,455
2021	4,504	2,566
2022	4,013	2,866
2023	6,518	5,156

9.21.2 Discards

Table 88: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	63	1	5,201
2015	15	20	4,791
2016	68	35	3,361
2017	63	10	2,858
2018	69	26	3,569
2019	20	111	4,762
2020	41	33	5,573
2021	416	239	10,419
2022	151	122	14,287
2023	182	201	14,494

²⁶Confidential data were replaced with *conf*

9.21.3 Fish Size

Table 89: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	26	26	12.9	1.4
GAFLn	28	27	11.9	0.9
FLs	242	213	9.0	0.4
5yr	779	702	9.4	0.6
10yr	1,451	1,334	9.8	0.6

9.21.4 Effort

Table 90: Annual effort in numbers of trips where graysby was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	74	9	1,574
2015	72	42	1,720
2016	81	49	1,284
2017	84	64	1,012
2018	82	85	978
2019	84	90	1,058
2020	219	69	920
2021	234	161	1,257
2022	154	57	1,517
2023	216	100	1,728

9.21.5 Catch Per Unit Effort (CPUE)

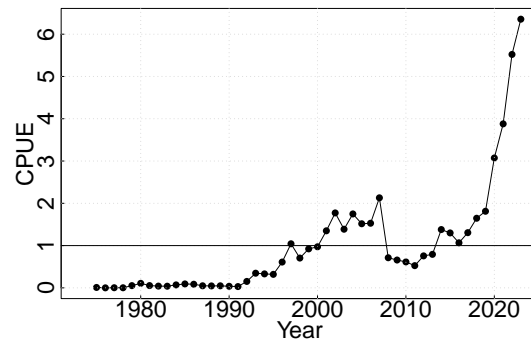


Figure 47: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.22 greater amberjack²⁷

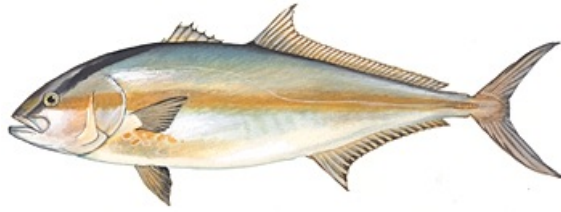


Figure 48: greater amberjack (*Seriola dumerili*).

9.22.3 Fish Size

Table 93: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	29	29	34.8	15.9
GAFLn	15	15	36.4	15.8
FLs	29	29	38.3	19.1
5yr	167	166	35.6	17.1
10yr	861	874	35.8	17.8

9.22.1 Landings

Table 91: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	3,834	73,786
2015	5,590	106,866
2016	5,845	106,599
2017	3,582	68,909
2018	1,618	26,607
2019	2,152	31,281
2020	2,770	39,964
2021	2,713	57,488
2022	1,522	33,163
2023	2,525	40,007

9.22.4 Effort

Table 94: Annual effort in numbers of trips where greater amberjack was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	447	420	301
2015	467	664	401
2016	461	655	294
2017	427	403	169
2018	227	261	150
2019	279	274	215
2020	413	171	253
2021	400	318	205
2022	245	237	257
2023	340	228	218

9.22.2 Discards

Table 92: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,208	1,635	857
2015	1,036	5,009	1,275
2016	1,490	1,483	738
2017	1,287	310	582
2018	729	835	378
2019	1,127	757	793
2020	1,266	285	626
2021	816	828	621
2022	571	1,201	639
2023	803	812	331

9.22.5 Catch Per Unit Effort (CPUE)

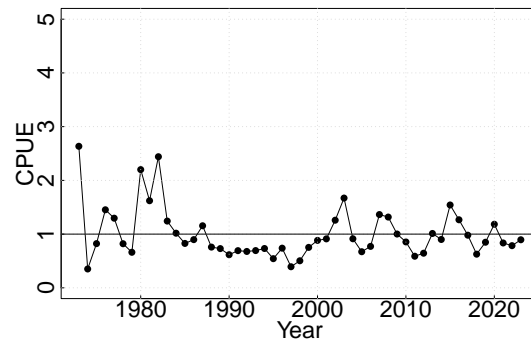


Figure 49: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

²⁷Confidential data were replaced with *conf*

9.23 hogfish²⁸



Figure 50: hogfish (*Lachnolaimus maximus*).

9.23.3 Fish Size

Table 97: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	1	1	20.4	5.7
GAFLn				
FLs	3	2	16.3	2.8
5yr	8	7	17.9	4.3
10yr	116	110	13.7	2.0

9.23.1 Landings

Table 95: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	190	392
2015	287	743
2016	170	282
2017	88	179
2018	18	94
2019	8	36
2020	33	153
2021	40	76
2022	13	40
2023	62	202

9.23.4 Effort

Table 98: Annual effort in numbers of trips where hogfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	24		220
2015	12	<i>conf</i>	260
2016	<i>conf</i>		159
2017	8		160
2018	7		93
2019	<i>conf</i>		41
2020	10		54
2021	9	<i>conf</i>	88
2022	7		66
2023	14		101

9.23.2 Discards

Table 96: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,145		109
2015	116	<i>conf</i>	153
2016	<i>conf</i>		112
2017			149
2018	10		118
2019	<i>conf</i>		66
2020			99
2021	10	<i>conf</i>	257
2022			132
2023			213

9.23.5 Catch Per Unit Effort (CPUE)

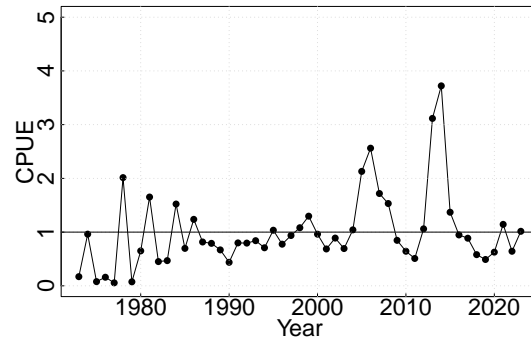


Figure 51: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

²⁸Confidential data were replaced with *conf*

9.24 jolthead porgy²⁹

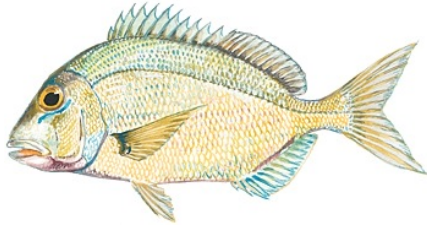


Figure 52: jolthead porgy (*Calamus bajonado*).

9.24.3 Fish Size

Table 101: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn	1	1	13.5	1.2
FLs	297	218	13.6	1.6
5yr	737	594	13.8	1.7
10yr	2,081	1,806	14.8	2.1

9.24.1 Landings

Table 99: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	5,902	13,911
2015	6,714	13,886
2016	6,075	20,849
2017	5,422	11,577
2018	5,689	10,289
2019	6,927	9,476
2020	7,667	10,862
2021	5,597	8,638
2022	7,702	12,141
2023	5,601	7,770

9.24.4 Effort

Table 102: Annual effort in numbers of trips where jolthead porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	169	21	1,509
2015	171	26	2,055
2016	115	14	2,242
2017	110	8	1,882
2018	94	<i>conf</i>	1,638
2019	87	21	1,558
2020	183	11	1,440
2021	177	23	1,383
2022	140	25	1,424
2023	169	14	1,448

9.24.2 Discards

Table 100: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	274	2	803
2015			189
2016	92		1,227
2017		1	24
2018	7	<i>conf</i>	158
2019	22	3	121
2020	1	1	138
2021	38	5	136
2022	19		961
2023	9		46

9.24.5 Catch Per Unit Effort (CPUE)

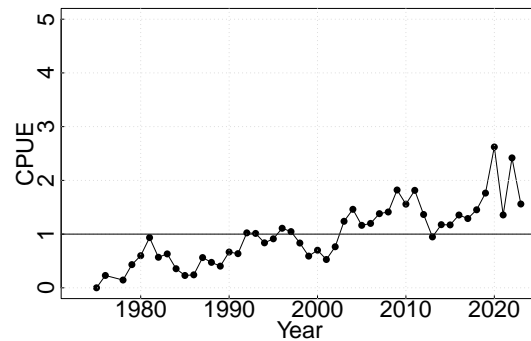


Figure 53: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

²⁹Confidential data were replaced with *conf*

9.25 king mackerel³⁰



Figure 54: king mackerel (*Scomberomorus cavalla*).

9.25.3 Fish Size

Table 105: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	13	13	39.7	13.6
GAFLn	20	20	38.0	10.2
FLs	258	236	33.2	7.6
5yr	731	688	33.8	8.2
10yr	2,391	2,324	33.1	8.2

9.25.1 Landings

Table 103: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	9,308	101,289
2015	11,872	96,365
2016	10,862	98,412
2017	8,925	62,278
2018	9,908	75,645
2019	11,723	98,416
2020	7,506	67,784
2021	7,948	42,020
2022	5,079	48,351
2023	3,948	39,005

9.25.4 Effort

Table 106: Annual effort in numbers of trips where king mackerel was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	193	139	3,357
2015	196	182	3,710
2016	221	229	3,255
2017	270	212	2,143
2018	320	181	2,024
2019	396	273	1,997
2020	468	181	1,500
2021	350	314	1,677
2022	164	164	1,209
2023	168	104	1,165

9.25.2 Discards

Table 104: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	95	15	1,108
2015	121	20	1,535
2016	348	148	1,462
2017	522	65	693
2018	494	38	428
2019	500	43	1,065
2020	433	25	674
2021	149	150	1,278
2022	49	20	880
2023	101	4	314

9.25.5 Catch Per Unit Effort (CPUE)

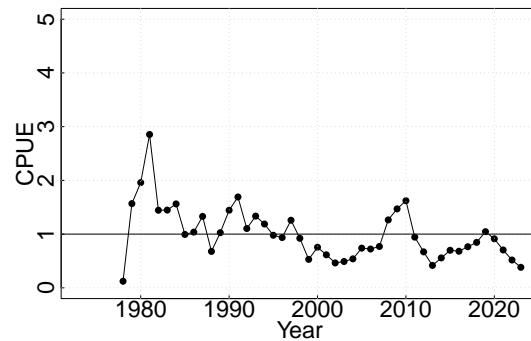


Figure 55: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³⁰Confidential data were replaced with *conf*

9.26 knobbed porgy³¹

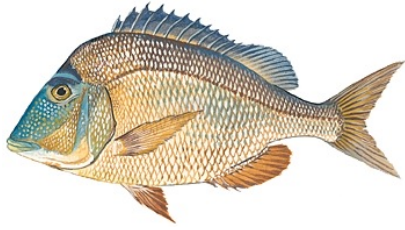


Figure 56: knobbed porgy (*Calamus nodosus*).

9.26.3 Fish Size

Table 109: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	9	9	13.1	1.4
GAFLn				
FLs	133	114	11.5	0.9
5yr	579	508	11.7	1.0
10yr	1,784	1,635	11.8	1.0

9.26.1 Landings

Table 107: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	5,960	5,582
2015	6,705	6,835
2016	4,209	4,647
2017	3,833	4,199
2018	4,562	4,116
2019	4,146	4,622
2020	3,849	3,434
2021	3,063	4,780
2022	4,817	4,892
2023	3,907	3,795

9.26.4 Effort

Table 110: Annual effort in numbers of trips where knobbed porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	61		1,205
2015	106	<i>conf</i>	1,188
2016	98	10	1,091
2017	94	<i>conf</i>	1,067
2018	67	<i>conf</i>	1,025
2019	113	4	907
2020	97	<i>conf</i>	734
2021	62	<i>conf</i>	593
2022	40		799
2023	54		831

9.26.2 Discards

Table 108: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1		1,195
2015	132	<i>conf</i>	322
2016	145	1	591
2017		<i>conf</i>	427
2018	64	<i>conf</i>	328
2019	146		480
2020	3	<i>conf</i>	442
2021	1	<i>conf</i>	225
2022			380
2023	8		139

9.26.5 Catch Per Unit Effort (CPUE)

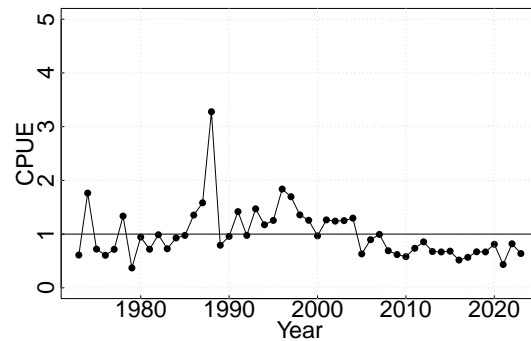


Figure 57: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³¹Confidential data were replaced with *conf*

9.27 lane snapper³²



Figure 58: lane snapper (*Lutjanus synagris*).

9.27.1 Landings

Table 111: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	29,880	21,816
2015	30,335	24,493
2016	34,097	24,148
2017	29,064	22,873
2018	37,853	26,520
2019	35,486	25,117
2020	23,267	14,991
2021	27,871	13,813
2022	32,709	20,963
2023	51,296	31,672

9.27.2 Discards

Table 112: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	705	2,755
2015		692	4,175
2016		543	6,751
2017		113	4,324
2018		538	9,747
2019		236	18,030
2020		95	10,119
2021		768	8,523
2022	<i>conf</i>	481	13,756
2023		295	22,953

³²Confidential data were replaced with *conf*

9.27.3 Fish Size

Table 113: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn	346	347	12.0	0.9
FLs	1,935	1,280	10.2	0.5
5yr	4,681	3,862	10.7	0.7
10yr	11,219	9,948	11.0	0.8

9.27.4 Effort

Table 114: Annual effort in numbers of trips where lane snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	897	2,597
2015		781	2,552
2016		762	2,496
2017		867	2,151
2018		734	2,134
2019		791	2,044
2020		626	1,563
2021		942	1,466
2022	<i>conf</i>	668	1,636
2023		737	2,461

9.27.5 Catch Per Unit Effort (CPUE)

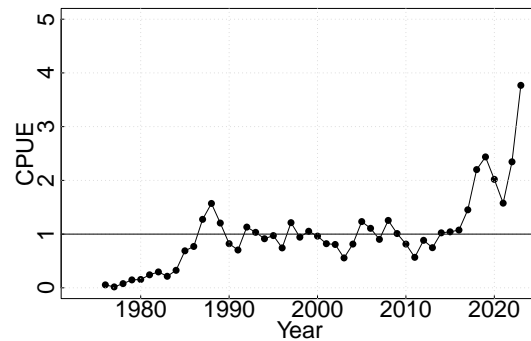


Figure 59: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.28 lesser amberjack³³

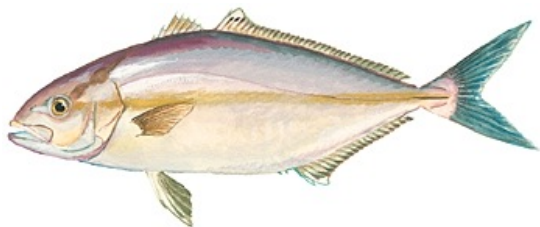


Figure 60: lesser amberjack (*Seriola fasciata*).

9.28.3 Fish Size

Table 117: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr	2	2	15.6	1.5
10yr	15	15	20.3	3.8

9.28.1 Landings

Table 115: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	896	4,270
2015	336	728
2016	320	772
2017	120	244
2018	207	749
2019	290	1,127
2020	221	390
2021	503	982
2022	109	179
2023	341	559

9.28.4 Effort

Table 118: Annual effort in numbers of trips where lesser amberjack was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	35	29	116
2015	15	8	84
2016	7	conf	158
2017	5	conf	62
2018	conf	9	39
2019	10		95
2020	5	conf	124
2021	conf	conf	250
2022		conf	87
2023		4	9

9.28.2 Discards

Table 116: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	77	27	153
2015	10	29	43
2016	2	conf	165
2017		conf	4
2018	conf	12	5
2019	34		51
2020	15	conf	68
2021	conf	conf	168
2022		conf	92
2023		2	34

9.28.5 Catch Per Unit Effort (CPUE)

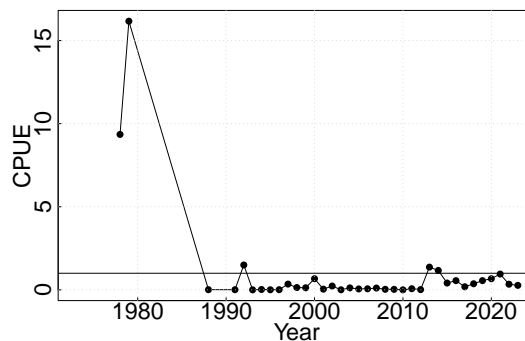


Figure 61: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³³Confidential data were replaced with *conf*

9.29 longspine porgy³⁴

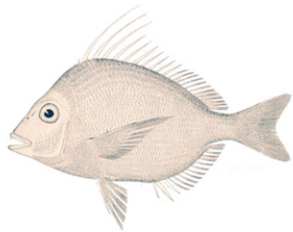


Figure 62: longspine porgy (*Stenotomus caprinus*).

9.29.1 Landings

Table 119: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	<i>conf</i>	<i>conf</i>
2015	62	45
2016	57	40
2017	62	54
2018	14	12
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022		
2023	<i>conf</i>	<i>conf</i>

9.29.2 Discards

Table 120: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	
2015	<i>conf</i>	<i>conf</i>	
2016		<i>conf</i>	<i>conf</i>
2017			35
2018			5
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			
2023			<i>conf</i>

³⁴Confidential data were replaced with *conf*

9.29.3 Fish Size

Table 121: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr	45	45	11.1	0.9

9.29.4 Effort

Table 122: Annual effort in numbers of trips where longspine porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	
2015	<i>conf</i>	<i>conf</i>	
2016		<i>conf</i>	<i>conf</i>
2017			34
2018			11
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			
2023			<i>conf</i>

9.29.5 Catch Per Unit Effort (CPUE)

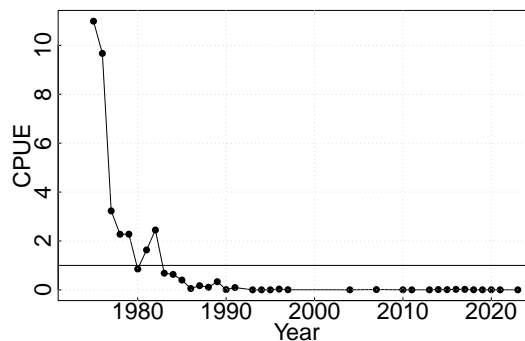


Figure 63: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.30 mahogany snapper³⁵



Figure 64: mahogany snapper (*Lutjanus mahogoni*).

9.30.1 Landings

Table 123: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	176	181
2015	184	180
2016	203	183
2017	62	70
2018	118	123
2019	79	55
2020	63	41
2021	93	62
2022	20	13
2023	47	38

9.30.2 Discards

Table 124: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			24
2015			98
2016			177
2017			4
2018			
2019			5
2020			5
2021	conf	conf	15
2022	conf		
2023			3

³⁵Confidential data were replaced with *conf*

9.30.3 Fish Size

Table 125: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	2	2	15.1	1.7
5yr	14	14	12.9	1.0
10yr	32	31	13.1	1.1

9.30.4 Effort

Table 126: Annual effort in numbers of trips where mahogany snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			116
2015			124
2016			88
2017			33
2018			35
2019			21
2020			22
2021	conf	conf	27
2022	conf		16
2023			33

9.30.5 Catch Per Unit Effort (CPUE)

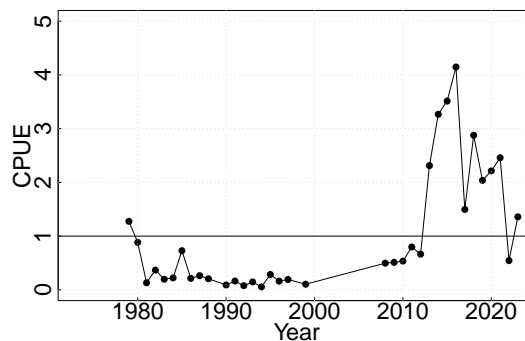


Figure 65: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.31 margate³⁶

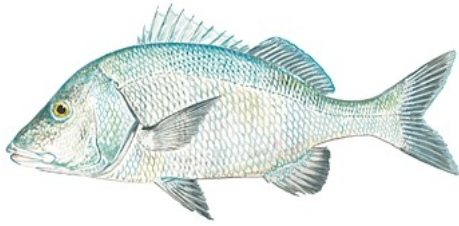


Figure 66: margate (*Haemulon album*).

9.31.3 Fish Size

Table 129: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	25	20	16.9	3.5
5yr	77	70	19.8	4.5
10yr	353	327	19.6	4.4

9.31.1 Landings

Table 127: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,399	4,719
2015	780	2,129
2016	588	2,499
2017	404	1,184
2018	423	1,434
2019	255	1,206
2020	375	1,676
2021	579	3,006
2022	317	1,403
2023	353	799

9.31.4 Effort

Table 130: Annual effort in numbers of trips where margate was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	15	303
2015		10	320
2016		<i>conf</i>	253
2017	<i>conf</i>	<i>conf</i>	159
2018	<i>conf</i>	10	130
2019		4	112
2020	<i>conf</i>	<i>conf</i>	156
2021	<i>conf</i>	<i>conf</i>	115
2022			84
2023	<i>conf</i>	3	144

9.31.2 Discards

Table 128: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		56
2015			96
2016		<i>conf</i>	52
2017	<i>conf</i>	<i>conf</i>	7
2018	<i>conf</i>	23	20
2019			57
2020	<i>conf</i>	<i>conf</i>	167
2021	<i>conf</i>	<i>conf</i>	19
2022			21
2023	<i>conf</i>		104

9.31.5 Catch Per Unit Effort (CPUE)

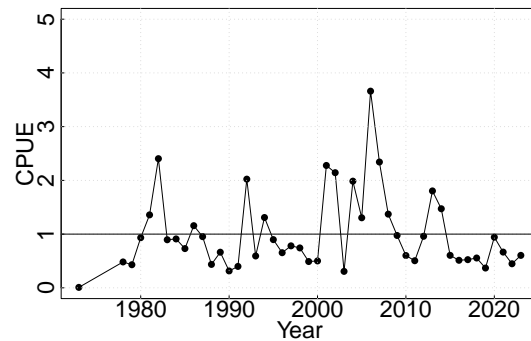


Figure 67: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³⁶Confidential data were replaced with *conf*

9.32 misty grouper³⁷



Figure 68: misty grouper (*Hyporthodus mystacinus*).

9.32.3 Fish Size

Table 133: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr	4	4	15.0	2.1

9.32.1 Landings

Table 131: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	<i>conf</i>	<i>conf</i>
2015	<i>conf</i>	<i>conf</i>
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018	<i>conf</i>	<i>conf</i>
2019		
2020		
2021		
2022		
2023		

9.32.4 Effort

Table 134: Annual effort in numbers of trips where misty grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019			
2020			
2021			
2022			
2023			

9.32.2 Discards

Table 132: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019			
2020			
2021			
2022			
2023			

9.32.5 Catch Per Unit Effort (CPUE)

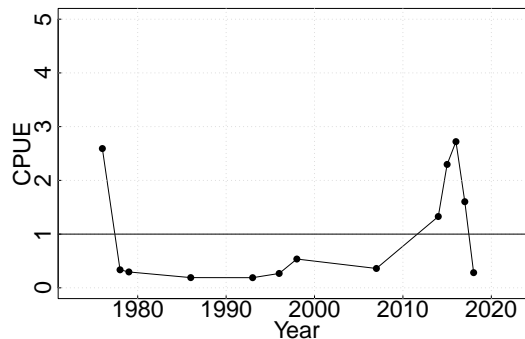


Figure 69: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³⁷Confidential data were replaced with *conf*

9.33 mutton snapper³⁸



Figure 70: mutton snapper (*Lutjanus analis*).

9.33.3 Fish Size

Table 137: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn	27	27	22.0	4.6
FLs	385	351	21.9	5.5
5yr	973	919	21.6	5.2
10yr	4,528	4,297	20.6	4.7

9.33.1 Landings

Table 135: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	17,000	83,648
2015	20,636	79,554
2016	23,018	88,783
2017	13,206	60,609
2018	12,312	60,293
2019	10,528	52,703
2020	10,387	46,470
2021	10,220	38,192
2022	7,381	39,043
2023	7,392	35,802

9.33.4 Effort

Table 138: Annual effort in numbers of trips where mutton snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	11	252	5,832
2015	4	271	5,968
2016	<i>conf</i>	349	5,522
2017	<i>conf</i>	247	3,435
2018	<i>conf</i>	253	3,322
2019	<i>conf</i>	224	3,417
2020	12	233	2,920
2021	<i>conf</i>	250	2,668
2022	<i>conf</i>	137	2,746
2023	<i>conf</i>	149	3,378

9.33.2 Discards

Table 136: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	20	547	10,401
2015	20	690	10,469
2016	<i>conf</i>	272	20,719
2017	<i>conf</i>	158	13,027
2018	<i>conf</i>	1,247	16,296
2019	<i>conf</i>	344	12,735
2020		490	12,869
2021	<i>conf</i>	619	9,310
2022	<i>conf</i>	342	11,642
2023	<i>conf</i>	736	15,309

9.33.5 Catch Per Unit Effort (CPUE)

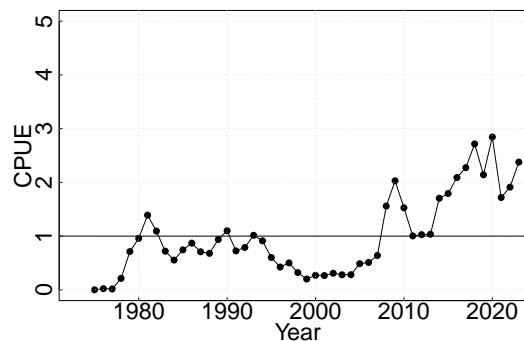


Figure 71: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

³⁸Confidential data were replaced with *conf*

9.34 Nassau grouper³⁹

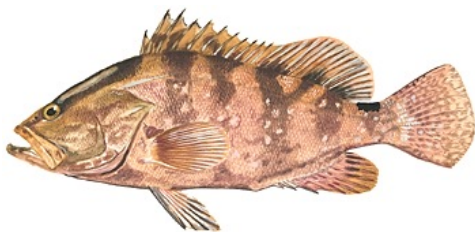


Figure 72: Nassau grouper (*Epinephelus striatus*).

9.34.1 Landings

Table 139: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014		
2015	8	40
2016		
2017		
2018		
2019		
2020		
2021		
2022		
2023		

9.34.2 Discards

Table 140: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			18
2015			27
2016			16
2017			10
2018			27
2019			14
2020			8
2021			14
2022			7
2023			9

³⁹Confidential data were replaced with *conf*

9.34.3 Fish Size

Table 141: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr				

9.34.4 Effort

Table 142: Annual effort in numbers of trips where Nassau grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			14
2015			24
2016			14
2017			9
2018			19
2019			13
2020			8
2021			13
2022			7
2023			8

9.34.5 Catch Per Unit Effort (CPUE)

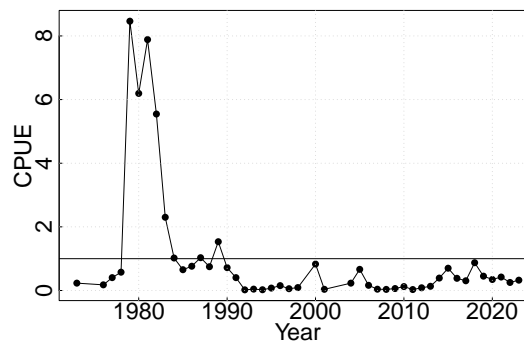


Figure 73: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.35 ocean triggerfish⁴⁰

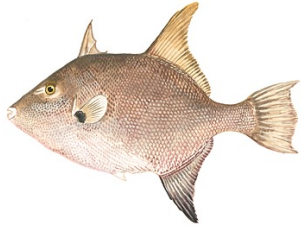


Figure 74: ocean triggerfish (*Canthidermis sufflamen*).

9.35.1 Landings

Table 143: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	3,412	11,303
2015	4,083	12,432
2016	2,889	8,798
2017	2,593	8,137
2018	1,479	5,379
2019	1,968	6,537
2020	1,332	6,239
2021	792	3,747
2022	1,385	3,975
2023	794	2,542

9.35.2 Discards

Table 144: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	1,380
2015			191
2016			168
2017		<i>conf</i>	74
2018		<i>conf</i>	33
2019			17
2020			2
2021			17
2022		<i>conf</i>	7
2023	<i>conf</i>	<i>conf</i>	20

⁴⁰Confidential data were replaced with *conf*

9.35.3 Fish Size

Table 145: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	6	69	16.8	3.0
5yr	15	331	16.8	3.1
10yr	78	1,648	16.7	3.1

9.35.4 Effort

Table 146: Annual effort in numbers of trips where ocean triggerfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	838
2015			643
2016			428
2017		<i>conf</i>	350
2018		<i>conf</i>	246
2019			328
2020			255
2021			176
2022		<i>conf</i>	198
2023	<i>conf</i>	<i>conf</i>	191

9.35.5 Catch Per Unit Effort (CPUE)

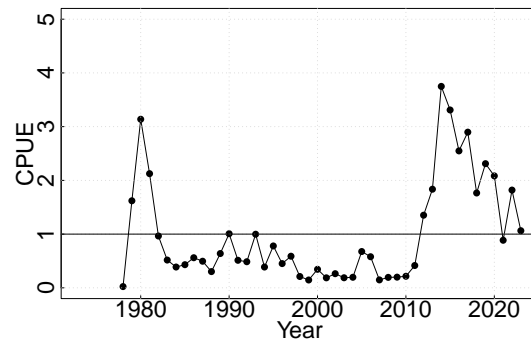


Figure 75: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.36 queen snapper⁴¹

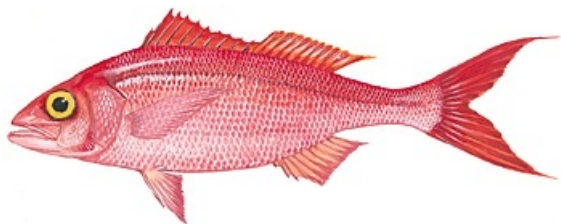


Figure 76: queen snapper (*Etelis oculatus*).

9.36.3 Fish Size

Table 149: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	52	46	26.0	6.3
5yr	108	101	27.5	7.2
10yr	188	179	29.8	9.2

9.36.1 Landings

Table 147: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	<i>conf</i>	<i>conf</i>
2015	<i>conf</i>	<i>conf</i>
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018	25	253
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>
2023	<i>conf</i>	<i>conf</i>

9.36.4 Effort

Table 150: Annual effort in numbers of trips where queen snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			7
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			<i>conf</i>
2023			<i>conf</i>

9.36.2 Discards

Table 148: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			2
2019			<i>conf</i>
2020			<i>conf</i>
2021			<i>conf</i>
2022			<i>conf</i>
2023			<i>conf</i>

9.36.5 Catch Per Unit Effort (CPUE)

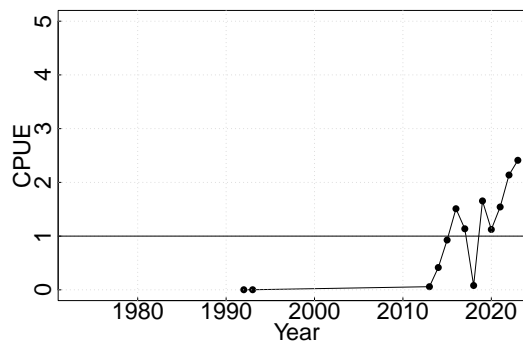


Figure 77: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴¹Confidential data were replaced with *conf*

9.37 red grouper⁴²



Figure 78: red grouper (*Epinephelus morio*).

9.37.3 Fish Size

Table 153: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn	2	2	21.2	5.2
FLs	80	75	22.4	6.8
5yr	195	180	23.1	7.5
10yr	941	873	23.8	8.0

9.37.1 Landings

Table 151: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,854	16,252
2015	1,735	12,527
2016	2,176	18,030
2017	2,385	18,650
2018	3,682	26,795
2019	2,906	19,871
2020	2,923	16,959
2021	1,751	7,497
2022	1,328	10,611
2023	979	5,610

9.37.4 Effort

Table 154: Annual effort in numbers of trips where red grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	45	70	1,935
2015	31	36	1,673
2016	22	14	2,596
2017	17	50	1,624
2018	22	52	2,241
2019	6	98	2,139
2020	5	31	1,474
2021	5	17	1,757
2022	conf	23	1,942
2023	conf	85	2,848

9.37.2 Discards

Table 152: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	25	102	4,907
2015	70	58	6,291
2016	23	24	11,845
2017	10	68	4,875
2018	18	47	8,868
2019	31	151	9,615
2020	6	59	4,939
2021		13	6,184
2022	conf	90	9,697
2023	conf	362	17,027

9.37.5 Catch Per Unit Effort (CPUE)

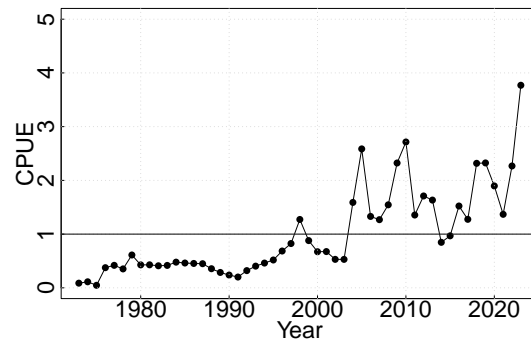


Figure 79: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴²Confidential data were replaced with *conf*

9.38 red hind⁴³



Figure 80: red hind (*Epinephelus guttatus*).

9.38.3 Fish Size

Table 157: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	11	11	12.5	1.2
5yr	17	17	12.7	1.3
10yr	93	88	13.6	1.6

9.38.1 Landings

Table 155: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	192	225
2015	266	277
2016	206	239
2017	100	162
2018	241	341
2019	46	62
2020	11	14
2021	19	24
2022	116	151
2023	57	52

9.38.4 Effort

Table 158: Annual effort in numbers of trips where red hind was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	5		156
2015	6	conf	235
2016	6	conf	206
2017	14	conf	67
2018	22		51
2019	conf		39
2020	conf		13
2021	conf	conf	8
2022	conf	conf	20
2023	conf	conf	62

9.38.2 Discards

Table 156: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	8		126
2015		conf	197
2016		conf	294
2017	4	conf	46
2018	8		53
2019	conf		50
2020	conf		14
2021	conf	conf	7
2022	conf	conf	3
2023	conf	conf	45

9.38.5 Catch Per Unit Effort (CPUE)

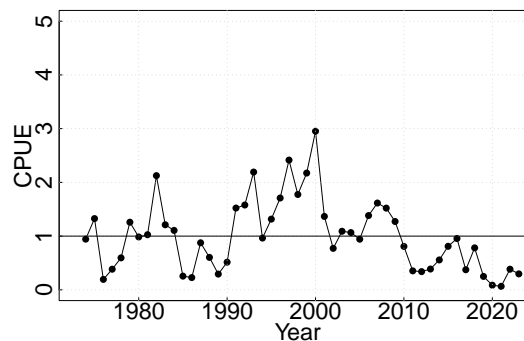


Figure 81: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴³Confidential data were replaced with *conf*

9.39 red porgy⁴⁴



Figure 82: red porgy (*Pagrus pagrus*).

9.39.3 Fish Size

Table 161: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	28	28	13.7	1.5
GAFLn				
FLs	4	4	15.8	2.1
5yr	130	130	15.1	1.8
10yr	1,087	1,068	15.0	1.8

9.39.1 Landings

Table 159: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	17,173	30,042
2015	15,546	28,968
2016	15,315	25,717
2017	12,333	23,042
2018	9,904	17,205
2019	7,375	13,285
2020	6,014	4,886
2021	6,589	6,085
2022	4,316	7,257
2023	1,261	2,489

9.39.4 Effort

Table 162: Annual effort in numbers of trips where red porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	432	60	78
2015	443	93	130
2016	435	115	94
2017	394	46	202
2018	277	43	34
2019	207	11	conf
2020	208	22	conf
2021	215	6	conf
2022	174	conf	conf
2023	125		12

9.39.2 Discards

Table 160: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	17,461	28	355
2015	18,541	102	139
2016	14,739	501	217
2017	10,665	214	323
2018	11,206	4	19
2019	6,726		conf
2020	4,319	4	conf
2021	3,608	8	conf
2022	3,647	conf	conf
2023	2,227		101

9.39.5 Catch Per Unit Effort (CPUE)

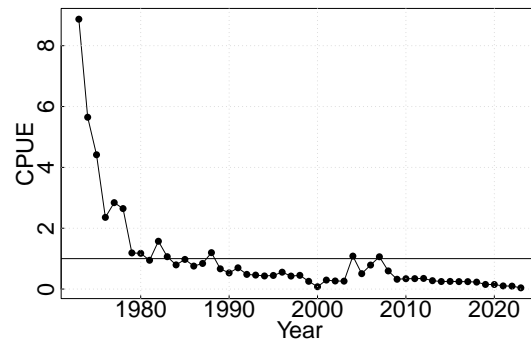


Figure 83: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴⁴Confidential data were replaced with *conf*

9.40 red snapper⁴⁵



Figure 84: red snapper (*Lutjanus campechanus*).

9.40.1 Landings

Table 163: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	2,952	22,450
2015	750	4,010
2016	331	1,844
2017	2,724	17,523
2018	4,435	30,126
2019	4,055	26,279
2020	3,224	18,305
2021	2,519	9,308
2022	1,593	8,751
2023	1,884	10,703

9.40.2 Discards

Table 164: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,401	42,398	2,813
2015	2,305	49,665	2,435
2016	2,045	61,450	3,016
2017	1,532	36,339	3,430
2018	2,550	41,177	3,559
2019	2,434	44,256	1,871
2020	4,996	47,506	540
2021	9,517	61,935	615
2022	8,846	35,694	942
2023	7,487	27,922	314

⁴⁵Confidential data were replaced with *conf*

9.40.3 Fish Size

Table 165: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	63	63	20.0	4.4
GAFLn	84	84	22.4	6.5
FLs	50	42	23.0	6.1
5yr	584	560	21.6	6.0
10yr	1,728	1,653	21.4	6.1

9.40.4 Effort

Table 166: Annual effort in numbers of trips where red snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	187	1,469	154
2015	250	1,370	59
2016	266	1,360	79
2017	259	1,197	196
2018	259	1,129	266
2019	275	1,255	109
2020	525	972	96
2021	769	1,149	140
2022	587	938	143
2023	546	788	66

9.40.5 Catch Per Unit Effort (CPUE)

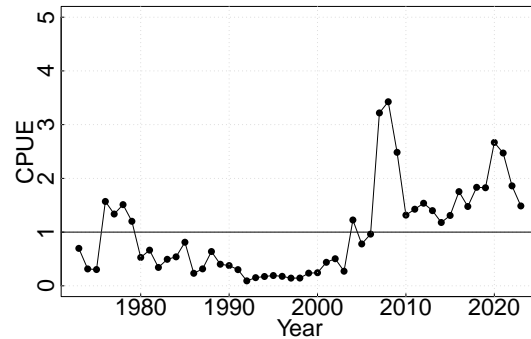


Figure 85: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.41 rock hind⁴⁶

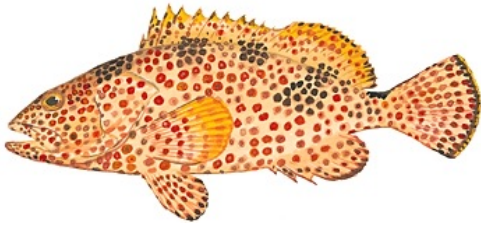


Figure 86: rock hind (*Epinephelus adscensionis*).

9.41.3 Fish Size

Table 169: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	23	23	14.0	1.8
5yr	61	58	14.6	2.1
10yr	233	214	14.6	2.0

9.41.1 Landings

Table 167: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,534	3,219
2015	2,355	3,529
2016	5,076	10,162
2017	1,187	2,738
2018	767	1,546
2019	421	1,369
2020	837	2,678
2021	785	1,424
2022	441	756
2023	521	992

9.41.4 Effort

Table 170: Annual effort in numbers of trips where rock hind was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	109	18	659
2015	116	21	840
2016	122	19	719
2017	111	14	301
2018	65	12	277
2019	31	conf	177
2020	97	conf	117
2021	70	conf	72
2022	28	conf	114
2023	50	conf	116

9.41.2 Discards

Table 168: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	28	16	711
2015	60	5	2,342
2016	61	32	5,041
2017	73	3	270
2018	18	13	437
2019	16	conf	116
2020	25	conf	127
2021	70	conf	20
2022	8	conf	190
2023	4	conf	184

9.41.5 Catch Per Unit Effort (CPUE)

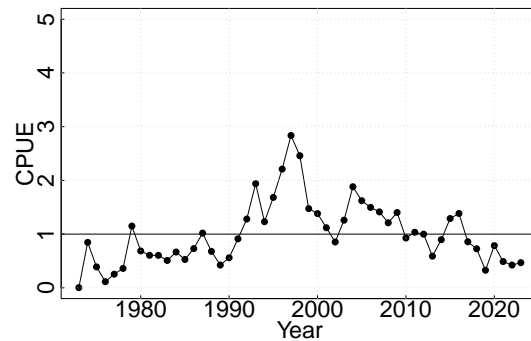


Figure 87: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴⁶Confidential data were replaced with *conf*

9.42 sailors choice⁴⁷

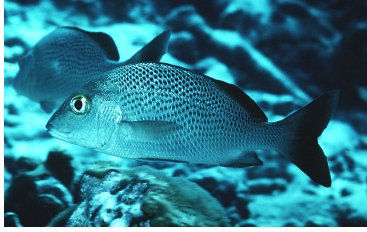


Figure 88: sailors choice (*Haemulon parra*).

9.42.3 Fish Size

Table 173: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	56	48	10.9	0.7
5yr	236	215	10.7	0.7
10yr	618	552	10.9	0.7

9.42.1 Landings

Table 171: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	837	682
2015	1,274	910
2016	2,323	1,627
2017	545	385
2018	307	221
2019	281	189
2020	649	390
2021	1,018	596
2022	1,019	714
2023	589	375

9.42.4 Effort

Table 174: Annual effort in numbers of trips where sailors choice was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	280
2015		<i>conf</i>	533
2016		<i>conf</i>	616
2017		<i>conf</i>	448
2018	<i>conf</i>		187
2019			95
2020			109
2021			113
2022			83
2023	<i>conf</i>		118

9.42.2 Discards

Table 172: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	124
2015		<i>conf</i>	98
2016		<i>conf</i>	792
2017		<i>conf</i>	968
2018	<i>conf</i>		217
2019			32
2020			156
2021			258
2022			96
2023	<i>conf</i>		38

9.42.5 Catch Per Unit Effort (CPUE)

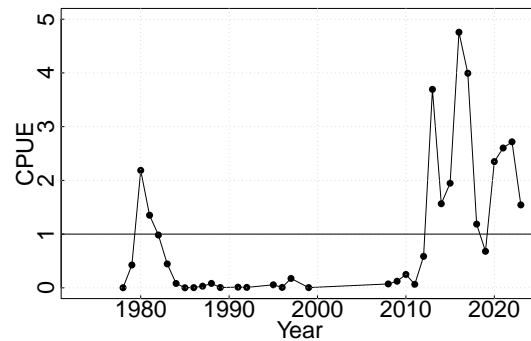


Figure 89: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴⁷Confidential data were replaced with *conf*

9.43 sand tilefish⁴⁸



Figure 90: sand tilefish (*Malacanthus plumieri*).

9.43.3 Fish Size

Table 177: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	103	99	17.8	1.1
5yr	205	201	17.9	1.1
10yr	614	656	17.5	1.0

9.43.1 Landings

Table 175: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,301	1,162
2015	1,819	1,785
2016	1,249	1,290
2017	667	712
2018	446	548
2019	143	183
2020	321	268
2021	397	388
2022	1,062	1,072
2023	891	859

9.43.4 Effort

Table 178: Annual effort in numbers of trips where sand tilefish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	8		1,122
2015	9	<i>conf</i>	1,323
2016	14	<i>conf</i>	1,029
2017	19		995
2018	13		467
2019	8		177
2020	20		175
2021	19		304
2022	<i>conf</i>		440
2023	23		498

9.43.2 Discards

Table 176: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	4		1,722
2015		<i>conf</i>	2,074
2016	1	<i>conf</i>	2,490
2017			3,086
2018	3		1,101
2019			430
2020			410
2021			444
2022	<i>conf</i>		923
2023			877

9.43.5 Catch Per Unit Effort (CPUE)

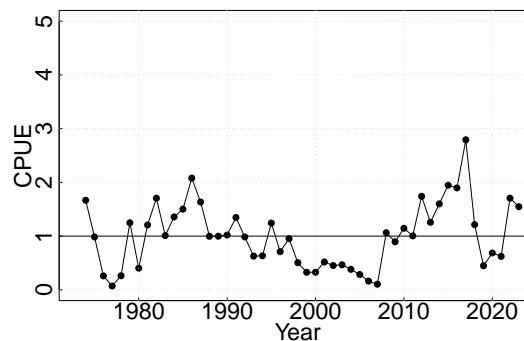


Figure 91: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴⁸Confidential data were replaced with *conf*

9.44 saucereye porgy⁴⁹

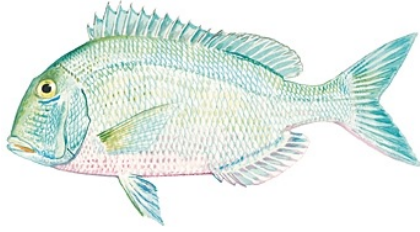


Figure 92: saucereye porgy (*Calamus calamus*).

9.44.3 Fish Size

Table 181: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	2	1	11.9	0.9
5yr	7	5	11.0	0.7
10yr	28	23	11.1	0.8

9.44.1 Landings

Table 179: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	28	34
2015	110	121
2016	74	81
2017	3	3
2018		
2019		
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>
2023	19	15

9.44.4 Effort

Table 182: Annual effort in numbers of trips where saucereye porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			34
2015			69
2016			40
2017			4
2018			
2019			
2020		<i>conf</i>	<i>conf</i>
2021			<i>conf</i>
2022			<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

9.44.2 Discards

Table 180: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			14
2015			
2016			3
2017			2
2018			
2019			
2020		<i>conf</i>	<i>conf</i>
2021			<i>conf</i>
2022			<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

9.44.5 Catch Per Unit Effort (CPUE)

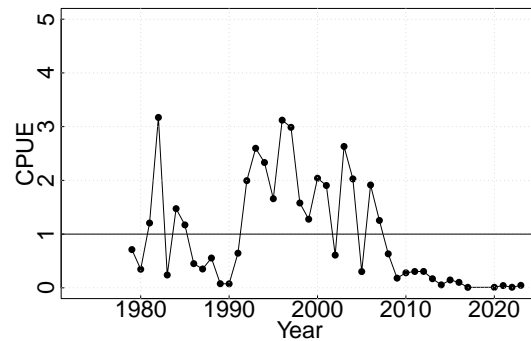


Figure 93: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁴⁹Confidential data were replaced with *conf*

9.45 scamp⁵⁰



Figure 94: scamp (*Mycteroperca phenax*).

9.45.3 Fish Size

Table 185: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	5	6	19.9	4.8
GAFLn				
FLs	46	40	21.1	5.0
5yr	140	128	21.6	5.4
10yr	390	377	22.7	6.6

9.45.1 Landings

Table 183: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,826	15,363
2015	2,208	12,482
2016	1,767	10,753
2017	1,658	14,278
2018	1,114	7,817
2019	1,025	8,313
2020	878	7,056
2021	616	2,445
2022	612	2,439
2023	825	4,464

9.45.4 Effort

Table 186: Annual effort in numbers of trips where scamp was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	357	31	75
2015	338	43	80
2016	353	36	79
2017	337	17	65
2018	242	18	59
2019	225	35	63
2020	236	13	47
2021	183	27	47
2022	132	17	50
2023	227	conf	61

9.45.2 Discards

Table 184: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,406	42	73
2015	1,527	30	79
2016	1,216	55	70
2017	872	6	35
2018	648	3	37
2019	561	41	47
2020	409	17	24
2021	319	51	23
2022	271	34	30
2023	990	conf	30

9.45.5 Catch Per Unit Effort (CPUE)

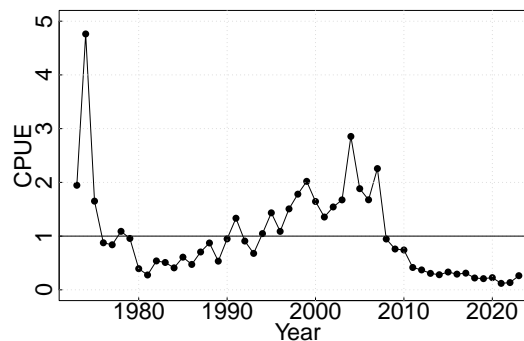


Figure 95: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵⁰Confidential data were replaced with *conf*

9.46 schoolmaster snapper⁵¹

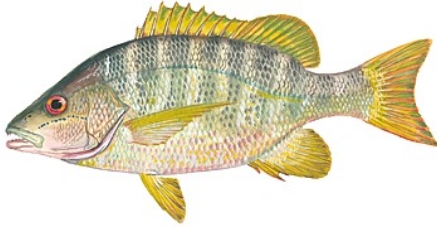


Figure 96: schoolmaster snapper (*Lutjanus apodus*).

9.46.1 Landings

Table 187: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	250	886
2015	527	361
2016	514	512
2017	420	407
2018	279	293
2019	207	239
2020	577	628
2021	831	928
2022	449	349
2023	433	394

9.46.2 Discards

Table 188: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	101
2015			273
2016		<i>conf</i>	198
2017		<i>conf</i>	217
2018			60
2019			55
2020		<i>conf</i>	157
2021		<i>conf</i>	243
2022			151
2023			109

⁵¹Confidential data were replaced with *conf*

9.46.3 Fish Size

Table 189: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	31	26	11.3	0.9
5yr	72	66	11.1	0.8
10yr	237	214	11.4	0.9

9.46.4 Effort

Table 190: Annual effort in numbers of trips where schoolmaster snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014		<i>conf</i>	96
2015			155
2016		<i>conf</i>	200
2017		<i>conf</i>	185
2018			101
2019			91
2020		<i>conf</i>	98
2021		<i>conf</i>	143
2022			129
2023			119

9.46.5 Catch Per Unit Effort (CPUE)

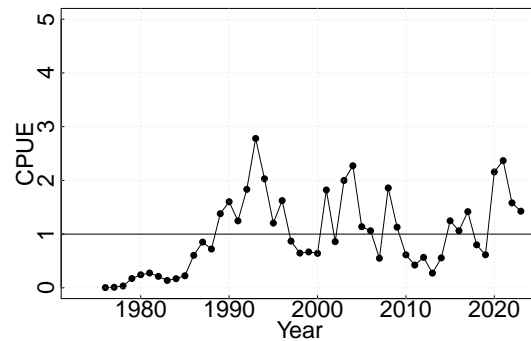


Figure 97: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.47 scup⁵²

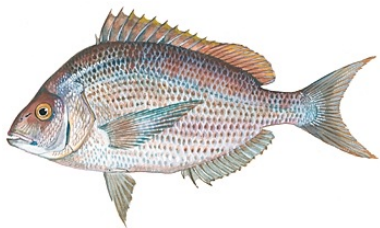


Figure 98: scup (*Stenotomus chrysops*).

9.47.3 Fish Size

Table 193: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	148	148	12.1	0.9
GAFLn	1	1	10.1	0.7
FLs				
5yr	275	275	11.5	0.8
10yr	427	414	11.0	0.8

9.47.1 Landings

Table 191: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	10,449	7,727
2015	13,846	11,506
2016	8,136	7,959
2017	8,977	7,437
2018	12,425	15,711
2019	13,871	13,622
2020	12,413	12,337
2021	21,541	21,608
2022	15,458	10,892
2023	12,730	11,305

9.47.4 Effort

Table 194: Annual effort in numbers of trips where scup was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	409	<i>conf</i>	
2015	447	<i>conf</i>	
2016	488	4	
2017	389	<i>conf</i>	<i>conf</i>
2018	197	<i>conf</i>	
2019	419	<i>conf</i>	
2020	292	<i>conf</i>	
2021	425	<i>conf</i>	
2022	236	<i>conf</i>	<i>conf</i>
2023	229	8	

9.47.2 Discards

Table 192: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	3,689	<i>conf</i>	
2015	1,831	<i>conf</i>	
2016	2,348	1	
2017	1,391	<i>conf</i>	<i>conf</i>
2018	858	<i>conf</i>	
2019	1,751	<i>conf</i>	
2020	1,039	<i>conf</i>	
2021	1,985	<i>conf</i>	
2022	1,093	<i>conf</i>	<i>conf</i>
2023	466		

9.47.5 Catch Per Unit Effort (CPUE)

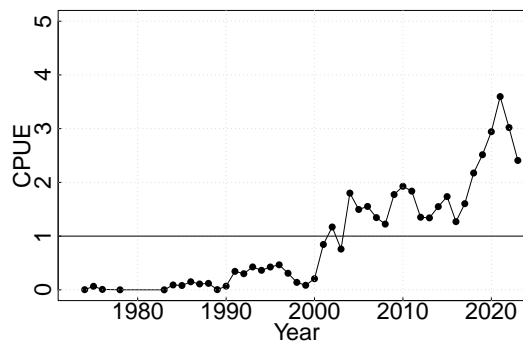


Figure 99: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵²Confidential data were replaced with *conf*

9.48 silk snapper⁵³



Figure 100: silk snapper (*Lutjanus vivanus*).

9.48.3 Fish Size

Table 197: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	78	52	17.7	3.8
5yr	187	158	16.5	3.0
10yr	400	364	15.9	2.3

9.48.1 Landings

Table 195: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	919	1,164
2015	1,345	2,292
2016	861	1,858
2017	733	1,414
2018	137	175
2019	423	369
2020	231	80
2021	134	46
2022	1,972	5,388
2023	1,462	5,087

9.48.4 Effort

Table 198: Annual effort in numbers of trips where silk snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		36
2015	<i>conf</i>	<i>conf</i>	62
2016	<i>conf</i>		70
2017		<i>conf</i>	33
2018			41
2019			30
2020	<i>conf</i>		32
2021			27
2022			56
2023	<i>conf</i>		43

9.48.2 Discards

Table 196: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>		3
2015	<i>conf</i>	<i>conf</i>	43
2016	<i>conf</i>		14
2017		<i>conf</i>	34
2018			32
2019			59
2020	<i>conf</i>		44
2021			50
2022			85
2023	<i>conf</i>		4

9.48.5 Catch Per Unit Effort (CPUE)

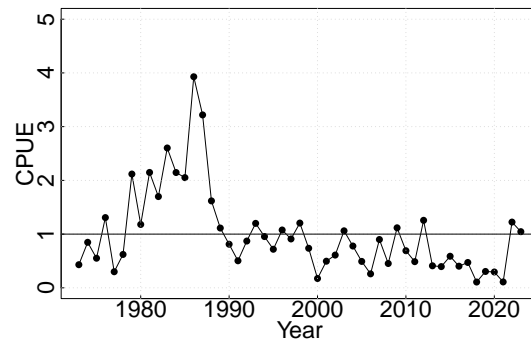


Figure 101: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵³Confidential data were replaced with *conf*

9.49 snowy grouper⁵⁴



Figure 102: snowy grouper (*Hyporthodus niveatus*).

9.49.1 Landings

Table 199: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	1,138	13,203
2015	781	4,372
2016	525	3,016
2017	773	3,433
2018	190	1,655
2019	237	624
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	313	1,952
2023	179	1,321

9.49.2 Discards

Table 200: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	21	<i>conf</i>	5
2015	3	<i>conf</i>	9
2016		<i>conf</i>	
2017		<i>conf</i>	4
2018	<i>conf</i>		
2019	<i>conf</i>	<i>conf</i>	<i>conf</i>
2020		<i>conf</i>	<i>conf</i>
2021		<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>	<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

⁵⁴Confidential data were replaced with *conf*

9.49.3 Fish Size

Table 201: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	50	44	21.4	7.5
5yr	83	77	20.0	6.1
10yr	346	321	20.6	5.9

9.49.4 Effort

Table 202: Annual effort in numbers of trips where snowy grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	10	<i>conf</i>	42
2015	4	<i>conf</i>	26
2016		<i>conf</i>	13
2017	7	<i>conf</i>	12
2018	<i>conf</i>		6
2019	<i>conf</i>	<i>conf</i>	<i>conf</i>
2020		<i>conf</i>	<i>conf</i>
2021		<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>	<i>conf</i>
2023	<i>conf</i>		<i>conf</i>

9.49.5 Catch Per Unit Effort (CPUE)

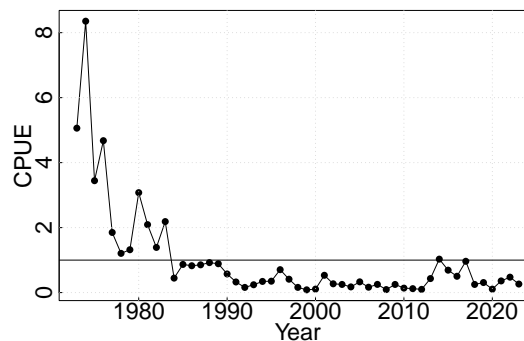


Figure 103: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.50 Spanish mackerel⁵⁵



Figure 104: Spanish mackerel (*Scomberomorus maculatus*).

9.50.3 Fish Size

Table 205: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	24	24	16.2	0.9
GAFLn	7	7	16.5	0.8
FLs	30	26	23.0	2.5
5yr	211	202	18.5	1.3
10yr	671	634	18.8	1.5

9.50.1 Landings

Table 203: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	7,611	8,984
2015	4,797	5,893
2016	8,603	8,414
2017	7,996	8,919
2018	4,383	5,653
2019	5,759	7,750
2020	5,422	10,132
2021	6,371	33,465
2022	9,232	11,723
2023	9,486	8,629

9.50.4 Effort

Table 206: Annual effort in numbers of trips where Spanish mackerel was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	381	44	355
2015	307	23	262
2016	439	25	230
2017	386	10	150
2018	235	24	113
2019	317	22	372
2020	354	18	244
2021	361	19	243
2022	406	11	56
2023	418	22	105

9.50.2 Discards

Table 204: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	821	5	28
2015	1,126	1	62
2016	1,254	4	53
2017	850	3	208
2018	831	4	2
2019	716	5	173
2020	804	5	163
2021	476	2	176
2022	677		20
2023	937		3

9.50.5 Catch Per Unit Effort (CPUE)

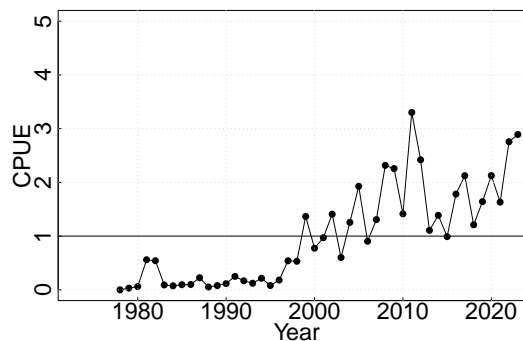


Figure 105: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵⁵Confidential data were replaced with *conf*

9.51 speckled hind⁵⁶



Figure 106: speckled hind (*Epinephelus drummondhayi*).

9.51.3 Fish Size

Table 209: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	2	2	21.1	6.4
5yr	10	10	20.3	6.6
10yr	19	19	18.9	5.6

9.51.1 Landings

Table 207: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	11	65
2015	8	9
2016		
2017	2	12
2018		
2019	conf	conf
2020		
2021		
2022		
2023	conf	conf

9.51.4 Effort

Table 210: Annual effort in numbers of trips where speckled hind was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	5	conf	14
2015	conf	conf	10
2016	conf		9
2017	conf	conf	3
2018	conf		conf
2019			conf
2020		conf	conf
2021			conf
2022			conf
2023			conf

9.51.2 Discards

Table 208: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	8	conf	14
2015	conf	conf	16
2016	conf		41
2017	conf	conf	4
2018	conf		conf
2019			conf
2020		conf	conf
2021			conf
2022			conf
2023			conf

9.51.5 Catch Per Unit Effort (CPUE)

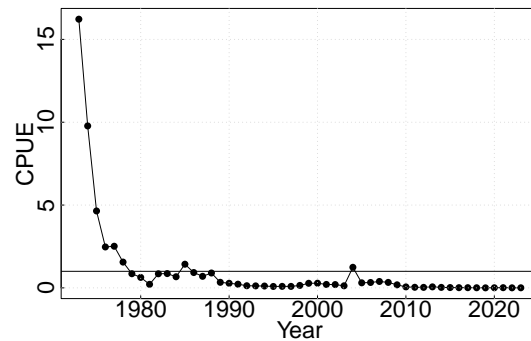


Figure 107: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵⁶Confidential data were replaced with *conf*

9.52 spottail pinfish⁵⁷

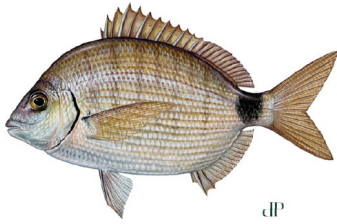


Figure 108: spottail pinfish (*Diplodus holbrookii*).

9.52.3 Fish Size

Table 213: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	545	545	10.6	0.7
GAFLn	4	4	10.4	0.7
FLs				
5yr	1,130	1,117	10.5	0.7
10yr	2,338	2,307	10.5	0.7

9.52.1 Landings

Table 211: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	26,509	20,027
2015	36,029	27,731
2016	41,243	30,165
2017	34,440	26,357
2018	21,744	15,947
2019	26,230	20,757
2020	24,267	19,258
2021	39,148	30,555
2022	31,239	22,485
2023	35,570	25,666

9.52.4 Effort

Table 214: Annual effort in numbers of trips where spottail pinfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	928	64	<i>conf</i>
2015	1,079	56	<i>conf</i>
2016	1,202	72	6
2017	1,047	56	<i>conf</i>
2018	532	76	<i>conf</i>
2019	738	<i>conf</i>	<i>conf</i>
2020	688	28	<i>conf</i>
2021	1,237	<i>conf</i>	<i>conf</i>
2022	1,045	<i>conf</i>	<i>conf</i>
2023	1,107	<i>conf</i>	<i>conf</i>

9.52.2 Discards

Table 212: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	4,192	69	<i>conf</i>
2015	6,118	13	<i>conf</i>
2016	5,989	59	26
2017	7,331	46	<i>conf</i>
2018	6,200	7	<i>conf</i>
2019	3,653	<i>conf</i>	<i>conf</i>
2020	3,130	5	<i>conf</i>
2021	5,740	<i>conf</i>	<i>conf</i>
2022	4,248	<i>conf</i>	<i>conf</i>
2023	4,054	<i>conf</i>	<i>conf</i>

9.52.5 Catch Per Unit Effort (CPUE)

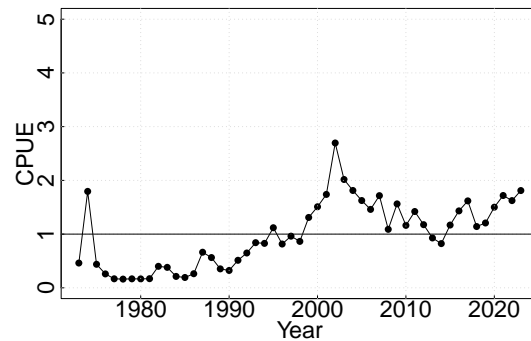


Figure 109: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵⁷Confidential data were replaced with *conf*

9.53 tilefish⁵⁸



Figure 110: tilefish (*Lopholatilus chamaeleonticeps*).

9.53.3 Fish Size

Table 217: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	2	2	27.0	6.9
5yr	3	3	28.2	8.4
10yr	28	27	24.2	5.8

9.53.1 Landings

Table 215: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	200	1,885
2015	142	958
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018	<i>conf</i>	<i>conf</i>
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021	<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>
2023	<i>conf</i>	<i>conf</i>

9.53.4 Effort

Table 218: Annual effort in numbers of trips where tilefish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			39
2015			28
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019	<i>conf</i>		
2020	<i>conf</i>	<i>conf</i>	
2021	<i>conf</i>		
2022	<i>conf</i>		
2023	<i>conf</i>		<i>conf</i>

9.53.2 Discards

Table 216: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			31
2015			48
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019	<i>conf</i>		
2020	<i>conf</i>	<i>conf</i>	
2021	<i>conf</i>		
2022	<i>conf</i>		
2023	<i>conf</i>		<i>conf</i>

9.53.5 Catch Per Unit Effort (CPUE)

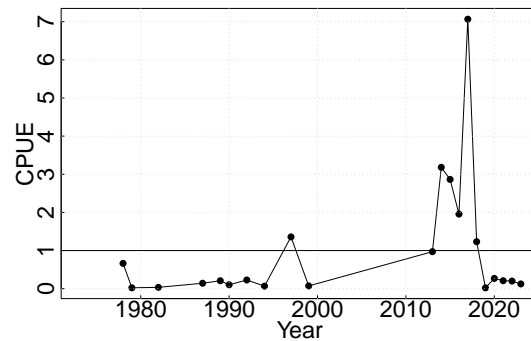


Figure 111: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁵⁸Confidential data were replaced with *conf*

9.54 tomtate⁵⁹



Figure 112: tomtate (*Haemulon aurolineatum*).

9.54.1 Landings

Table 219: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	59,703	21,619
2015	49,853	18,170
2016	47,988	17,536
2017	46,365	17,836
2018	44,298	16,562
2019	34,174	13,435
2020	32,378	20,996
2021	44,621	13,846
2022	45,744	19,718
2023	47,096	18,047

9.54.2 Discards

Table 220: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	24,053	30,146	35,573
2015	20,526	40,778	27,183
2016	17,874	29,901	15,227
2017	21,131	15,698	17,002
2018	12,140	32,933	18,277
2019	18,149	25,354	13,754
2020	19,463	15,713	10,468
2021	24,093	13,555	3,987
2022	28,962	6,248	7,611
2023	31,299	<i>conf</i>	9,217

⁵⁹Confidential data were replaced with *conf*

9.54.3 Fish Size

Table 221: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	303	303	9.7	0.4
GAFLn	32	32	9.2	0.4
FLs	88	80	8.7	0.3
5yr	1,127	1,121	9.3	0.4
10yr	3,570	3,524	9.1	0.4

9.54.4 Effort

Table 222: Annual effort in numbers of trips where tomtate was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	1,145	506	1,267
2015	1,253	659	1,217
2016	1,222	597	1,077
2017	1,018	498	1,061
2018	544	668	1,008
2019	958	537	702
2020	789	394	457
2021	915	228	496
2022	692	132	421
2023	765	<i>conf</i>	655

9.54.5 Catch Per Unit Effort (CPUE)

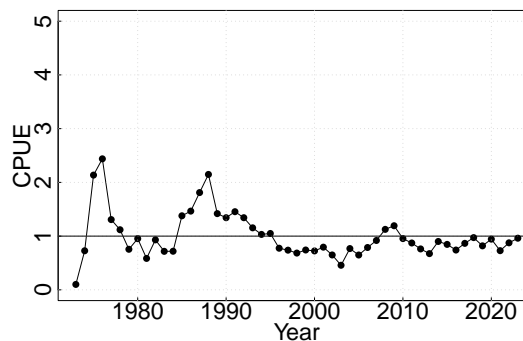


Figure 113: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.55 vermilion snapper⁶⁰



Figure 114: vermilion snapper (*Rhomboplites aurorubens*).

9.55.1 Landings

Table 223: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	135,572	169,803
2015	119,031	152,879
2016	125,217	141,783
2017	138,368	156,995
2018	126,270	143,521
2019	131,259	152,001
2020	112,951	120,228
2021	144,219	151,132
2022	113,401	114,376
2023	107,270	110,287

9.55.2 Discards

Table 224: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	37,243	25,067	6,054
2015	42,823	42,004	13,407
2016	54,055	31,252	13,890
2017	47,400	28,531	11,063
2018	50,968	29,213	8,727
2019	53,683	29,279	3,749
2020	42,497	19,143	1,089
2021	54,013	28,163	2,554
2022	50,818	23,780	5,127
2023	41,369	12,391	4,585

⁶⁰Confidential data were replaced with *conf*

9.55.3 Fish Size

Table 225: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	660	660	13.7	1.1
GAFLn	238	239	13.0	1.0
FLs	231	210	12.9	0.9
5yr	2,956	2,912	13.2	1.0
10yr	12,933	12,405	13.2	1.1

9.55.4 Effort

Table 226: Annual effort in numbers of trips where vermilion snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	670	993	1,216
2015	646	1,174	1,910
2016	741	1,113	2,442
2017	738	935	1,819
2018	611	962	1,543
2019	698	949	1,013
2020	759	713	822
2021	873	857	1,293
2022	716	695	1,088
2023	717	435	823

9.55.5 Catch Per Unit Effort (CPUE)

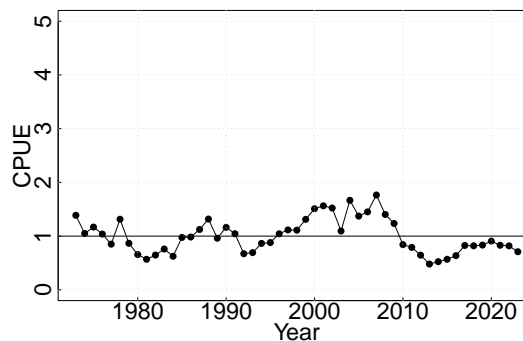


Figure 115: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.56 Warsaw⁶¹

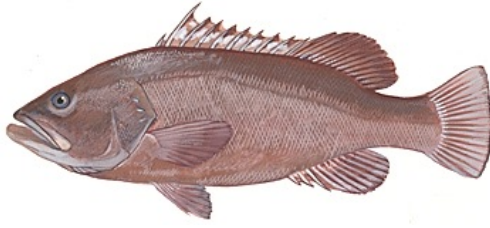


Figure 116: Warsaw (*Epinephelus nigritus*).

9.56.1 Landings

Table 227: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	41	1,684
2015	23	775
2016	10	344
2017	16	822
2018	<i>conf</i>	<i>conf</i>
2019		
2020		
2021	<i>conf</i>	<i>conf</i>
2022		
2023	<i>conf</i>	<i>conf</i>

9.56.2 Discards

Table 228: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	4
2015			3
2016			5
2017			3
2018			<i>conf</i>
2019		8	
2020			<i>conf</i>
2021		<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>	
2023			<i>conf</i>

⁶¹Confidential data were replaced with *conf*

9.56.3 Fish Size

Table 229: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr	1	2	46.5	75.0

9.56.4 Effort

Table 230: Annual effort in numbers of trips where Warsaw was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	<i>conf</i>	<i>conf</i>	14
2015			8
2016			11
2017			10
2018			<i>conf</i>
2019		7	
2020			<i>conf</i>
2021		<i>conf</i>	<i>conf</i>
2022	<i>conf</i>	<i>conf</i>	
2023			<i>conf</i>

9.56.5 Catch Per Unit Effort (CPUE)

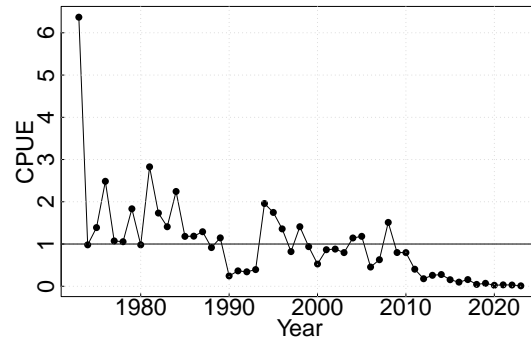


Figure 117: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.57 white grunt⁶²

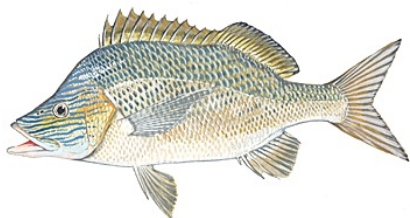


Figure 118: white grunt (*Haemulon plumieri*).

9.57.3 Fish Size

Table 233: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	220	220	13.3	1.4
GAFLn	17	17	12.6	1.1
FLs	2,599	2,110	10.2	0.5
5yr	7,480	6,548	10.4	0.6
10yr	23,805	21,420	10.6	0.7

9.57.1 Landings

Table 231: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	179,980	143,072
2015	173,024	124,627
2016	158,123	125,748
2017	148,353	111,916
2018	133,993	102,592
2019	135,798	104,613
2020	113,883	81,298
2021	130,921	87,041
2022	123,691	86,484
2023	123,002	81,806

9.57.4 Effort

Table 234: Annual effort in numbers of trips where white grunt was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	1,011	73	4,306
2015	955	<i>conf</i>	4,438
2016	1,058	52	4,124
2017	952	50	3,747
2018	753	72	3,634
2019	1,052	65	3,886
2020	887	56	3,097
2021	897	78	3,655
2022	678	31	3,843
2023	637	<i>conf</i>	4,461

9.57.2 Discards

Table 232: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	1,022	156	73,780
2015	1,693	<i>conf</i>	63,612
2016	2,339		39,781
2017	1,941	11	57,628
2018	3,187	71	50,959
2019	3,671	36	69,089
2020	2,055	3	54,717
2021	1,888	531	54,437
2022	710	28	57,984
2023	389	<i>conf</i>	59,503

9.57.5 Catch Per Unit Effort (CPUE)

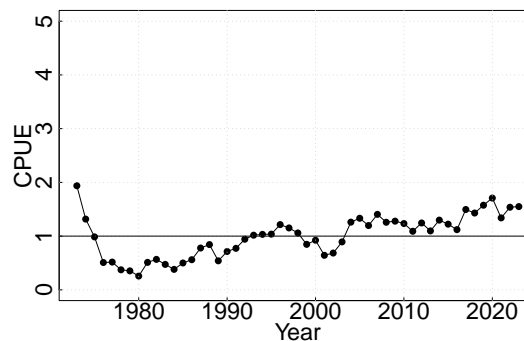


Figure 119: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁶²Confidential data were replaced with *conf*

9.58 whitebone porgy⁶³



Figure 120: whitebone porgy (*Calamus leucoteus*).

9.58.1 Landings

Table 235: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	5,145	6,752
2015	5,711	7,583
2016	4,766	6,085
2017	5,892	7,314
2018	4,202	5,299
2019	4,843	5,654
2020	4,752	6,975
2021	4,206	4,031
2022	2,902	3,883
2023	3,244	3,711

9.58.2 Discards

Table 236: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014	450	530	775
2015	42	102	99
2016	604	297	1,560
2017	1	19	3,940
2018	249	35	946
2019	434	14	264
2020	71	26	184
2021	6	31	11
2022	5	1	104
2023	24	21	17

⁶³Confidential data were replaced with *conf*

9.58.3 Fish Size

Table 237: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	23	23	12.0	1.1
GAFLn	31	33	12.5	1.2
FLs	78	57	10.8	0.7
5yr	379	361	12.3	1.2
10yr	1,694	1,635	12.4	1.3

9.58.4 Effort

Table 238: Annual effort in numbers of trips where whitebone porgy was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	206	565	726
2015	255	747	656
2016	333	593	723
2017	324	486	1,045
2018	208	347	618
2019	246	412	570
2020	282	292	412
2021	326	414	273
2022	225	275	261
2023	296	210	294

9.58.5 Catch Per Unit Effort (CPUE)

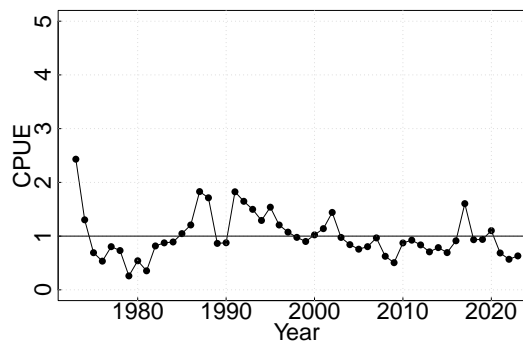


Figure 121: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.59 wreckfish⁶⁴



Figure 122: wreckfish (*Polyprion americanus*).

9.59.3 Fish Size

Table 241: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr				
10yr				

9.59.1 Landings

Table 239: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		
2023		

9.59.4 Effort

Table 242: Annual effort in numbers of trips where wreckfish was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			
2015			
2016			
2017			
2018			
2019			
2020	conf		
2021			
2022	conf		
2023			

9.59.2 Discards

Table 240: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			
2015			
2016			
2017			
2018			
2019			
2020			
2021			
2022	conf		
2023			

9.59.5 Catch Per Unit Effort (CPUE)

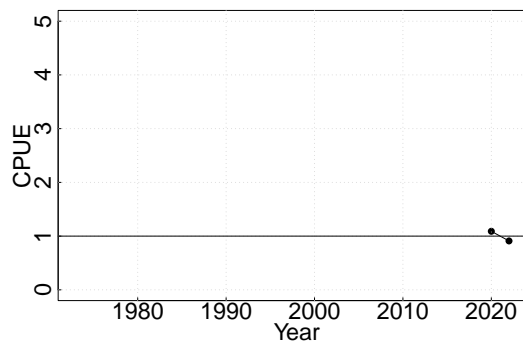


Figure 123: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

⁶⁴Confidential data were replaced with *conf*

9.60 yellowedge grouper⁶⁵



Figure 124: yellowedge grouper (*Hyporhamphus flavolimbatus*).

9.60.1 Landings

Table 243: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	<i>conf</i>	<i>conf</i>
2015	<i>conf</i>	<i>conf</i>
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018		
2019	<i>conf</i>	<i>conf</i>
2020		
2021		
2022		
2023	<i>conf</i>	<i>conf</i>

9.60.2 Discards

Table 244: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			
2019			<i>conf</i>
2020			
2021			
2022			
2023			<i>conf</i>

⁶⁵Confidential data were replaced with *conf*

9.60.3 Fish Size

Table 245: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	10	10	23.9	9.8
5yr	22	22	21.7	7.0
10yr	105	94	24.0	7.7

9.60.4 Effort

Table 246: Annual effort in numbers of trips where yellowedge grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			
2019			<i>conf</i>
2020			
2021			
2022			
2023			<i>conf</i>

9.60.5 Catch Per Unit Effort (CPUE)

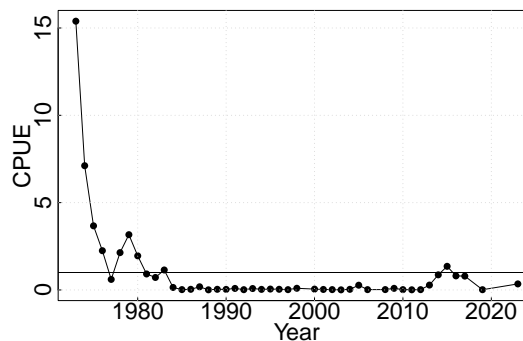


Figure 125: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.61 yellowfin grouper⁶⁶

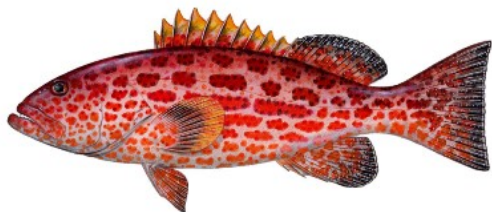


Figure 126: yellowfin grouper (*Mycteroperca venenosa*).

9.61.1 Landings

Table 247: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	35	421
2015	18	118
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018	<i>conf</i>	<i>conf</i>
2019		
2020	<i>conf</i>	<i>conf</i>
2021	4	43
2022		
2023		

9.61.2 Discards

Table 248: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			3
2015	<i>conf</i>		<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019		<i>conf</i>	
2020	<i>conf</i>		<i>conf</i>
2021		<i>conf</i>	3
2022			
2023			

⁶⁶Confidential data were replaced with *conf*

9.61.3 Fish Size

Table 249: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs				
5yr	1	1	34.3	23.6
10yr	3	2	33.5	19.6

9.61.4 Effort

Table 250: Annual effort in numbers of trips where yellowfin grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			8
2015	<i>conf</i>		<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018			<i>conf</i>
2019		<i>conf</i>	
2020	<i>conf</i>		<i>conf</i>
2021		<i>conf</i>	3
2022			
2023			

9.61.5 Catch Per Unit Effort (CPUE)

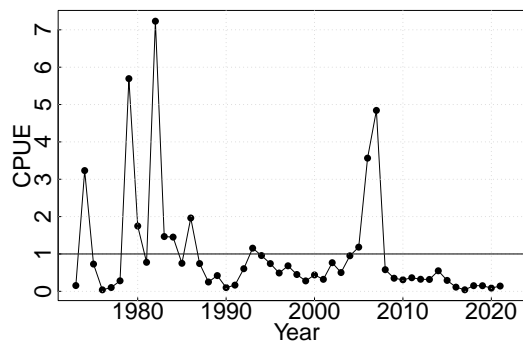


Figure 127: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.62 yellowmouth grouper⁶⁷

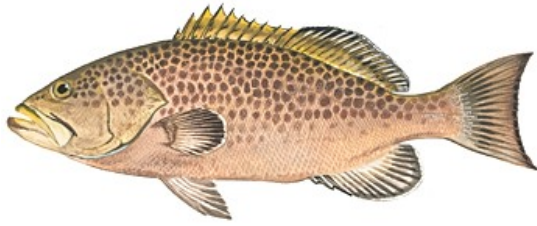


Figure 128: yellowmouth grouper (*Mycteroperca interstitialis*).

9.62.1 Landings

Table 251: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	<i>conf</i>	<i>conf</i>
2015	<i>conf</i>	<i>conf</i>
2016	<i>conf</i>	<i>conf</i>
2017	<i>conf</i>	<i>conf</i>
2018	9	50
2019	<i>conf</i>	<i>conf</i>
2020	<i>conf</i>	<i>conf</i>
2021		
2022		
2023	<i>conf</i>	<i>conf</i>

9.62.2 Discards

Table 252: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018	<i>conf</i>		<i>conf</i>
2019			<i>conf</i>
2020	<i>conf</i>		
2021			3
2022			<i>conf</i>
2023			<i>conf</i>

⁶⁷Confidential data were replaced with *conf*

9.62.3 Fish Size

Table 253: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC				
GAFLn				
FLs	1	1	30.3	11.8
5yr	4	4	26.4	8.2
10yr	6	8	25.9	6.9

9.62.4 Effort

Table 254: Annual effort in numbers of trips where yellowmouth grouper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014			<i>conf</i>
2015			<i>conf</i>
2016			<i>conf</i>
2017			<i>conf</i>
2018	<i>conf</i>		<i>conf</i>
2019			<i>conf</i>
2020	<i>conf</i>		
2021			3
2022			<i>conf</i>
2023			<i>conf</i>

9.62.5 Catch Per Unit Effort (CPUE)

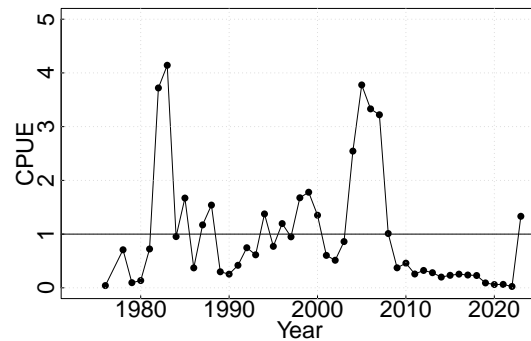


Figure 129: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

9.63 yellowtail snapper⁶⁸

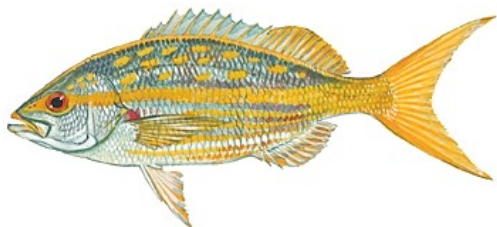


Figure 130: yellowtail snapper (*Ocyurus chrysurus*).

9.63.1 Landings

Table 255: Annual landings in number (n) and weight in pounds (lb) for all regions.

Year	n	lb
2014	158,616	159,308
2015	168,609	163,029
2016	178,642	176,542
2017	103,385	101,249
2018	107,368	99,877
2019	112,757	101,740
2020	77,341	66,681
2021	93,774	125,393
2022	101,162	80,627
2023	89,875	68,142

9.63.2 Discards

Table 256: Annual discards in number by region.

Year	NCSC	GAFLn	FLs
2014		44	63,517
2015	<i>conf</i>	12	64,996
2016	<i>conf</i>	92	67,189
2017		23	31,690
2018		86	44,762
2019	2	43	60,832
2020		21	43,654
2021		5	48,557
2022		4	69,059
2023	12	6	63,733

⁶⁸Confidential data were replaced with *conf*

9.63.3 Fish Size

Table 257: Numbers (n) of lengths (Len) and weights (Wgt), and average Len (in) and Wgt (lb) from dock-side sampling, by region or 5 and 10 yr averages for all regions.

Region	Len (n)	Wgt (n)	Len (in)	Wgt (lb)
NCSC	1	1	23.1	3.4
GAFLn	10	10	13.4	0.7
FLs	2,989	2,342	13.3	0.8
5yr	8,960	7,622	13.5	0.8
10yr	28,113	25,009	13.9	0.9

9.63.4 Effort

Table 258: Annual effort in numbers of trips where yellowtail snapper was caught or discarded.

Year	NCSC	GAFLn	FLs
2014	9	179	8,096
2015	<i>conf</i>	147	8,596
2016	<i>conf</i>	96	7,076
2017	8	73	4,573
2018	7	73	4,738
2019	14	82	4,825
2020	17	34	3,863
2021	7	29	4,332
2022	5	18	4,426
2023	8	17	4,874

9.63.5 Catch Per Unit Effort (CPUE)

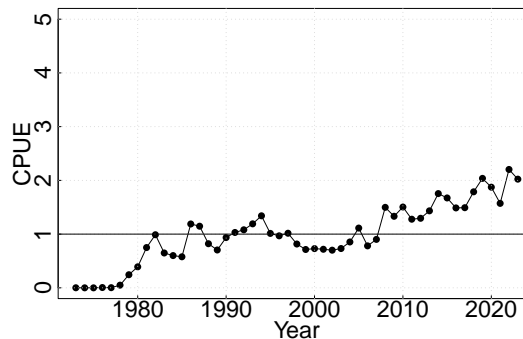


Figure 131: Catch per unit effort (CPUE: catch/angler day) from headboat logbooks.

10 Acknowledgements

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