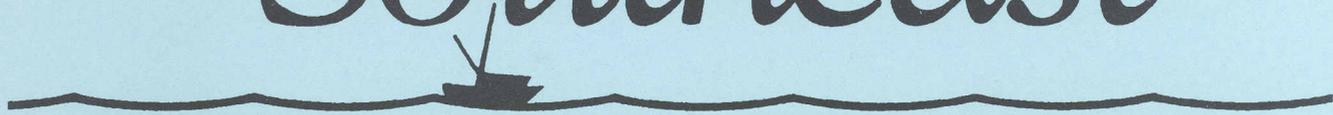


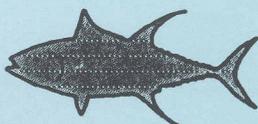
ANNUAL NEWSLETTER 1988¹

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Southeast



FISHERIES CENTER



¹Contribution PR-89/90-9 from the Southeast Fisheries Center, Miami, Laboratory, Oceanics Pelagics Division.

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Introduction

In 1988, program cooperators and scientists tagged and released 8,299 fish of 44 species in the Atlantic Ocean, Gulf of Mexico, and the Caribbean Sea. A total of 5,470 billfish were tagged and released: 2,466 sailfish, 1,626 blue marlin, 1,094 white marlin, and 284 swordfish. There were 549 tunas tagged and released: 314 yellowfin, 91 bluefin, and 144 miscellaneous tunas. Other species tagged and released by program cooperators were: 810 red drum, 659 tarpon, 404 king mackerel, and 92 amberjack. In addition, 315 fish of 30 miscellaneous species were tagged and released.

Sailfish

In 1988, 2,469 sailfish were tagged and released. Recreational fishermen tagged and released 2,329 and 140 fish were released by commercial fishermen. As in past years, the east coast of Florida was the leading tagging area with 1,119 releases. Other tagging areas: 420 off Cancun, Mexico, 344 off Cozumel, Mexico, 175 off the west coast of Africa, 116 off the northeast coast of Florida, 108 in the Gulf of Mexico, 84 off La Guaira, Venezuela, 51 in the Bahamas, 29 off the Middle Atlantic States (North Carolina to New Jersey), 11 off Puerto Rico, 4 off the U. S. Virgin Islands, 3 each off Cuba and the Bahamas, 1 off the northeastern United States, and 1 off Vitoria, Brazil.

There were 37 sailfish recaptures in 1988 (Table 1): 32 by recreational fishermen, 4 by commercial fishermen and 1 where gear was unknown. Of the 17 recaptures of fish released off Palm Beach, Florida, 7 were recaptured in the same general area of release, 3 off Pompano Beach, Florida, 2 off the Florida Keys, 2 off Miami, and one each off Ft. Lauderdale, Florida, Cape Canaveral, Florida, and Chub Cay, Bahamas. There were 7 recaptures of sailfish released off the Florida Keys: 4 off Ft. Lauderdale, and one each off Hillsboro, Florida, Miami, and Islamorada, Florida. There were 4 recaptures of sailfish released off Cozumel: 1 in the same area of release, 1 off the northeast coast of Cuba, 1 off Palm Beach, and 1 in the northwest Gulf of Mexico. There were 3 recaptures of sailfish released off Miami: one off Ft. Lauderdale, 1 each off Pompano, and the Florida Keys. There were 2 recaptures of sailfish released off Cape Canaveral: 1 in the northeast Gulf of Mexico, and 1 off Palm Beach. There were 2 recaptures of sailfish released off Cancun: 1 in the same area of release, and 1 in the central Caribbean Sea. There were 2 recaptures of sailfish released off Ft. Lauderdale: 1 off Jupiter, Florida, and 1 off the southern coast of the Dominican Republic. There was 1 recapture reported that did not have release data. Twenty-four sailfish were recaptured that had been at large for less than 1 year, 7 for 1-2 years, 4 for 2-3 years, 1 for 3-4 years, and 1 for over 4 years.

The longest distance traveled by a sailfish recaptured in 1988 was by a fish tagged off Cozumel and recaptured off Curacao, Netherlands Antilles. The longest time at large was from a sailfish tagged and released off Cancun on April 13, 1984, and recaptured in the same area 1,480 days later.

White Marlin

There were 1,094 white marlin tagged and released in 1988. Recreational fishermen tagged 994 white marlin, commercial fishermen tagged 96, NMFS observers aboard Japanese longline vessels tagged 4. The leading tagging area was the middle Atlantic states with 281 releases, 268 in the Gulf of Mexico, 152 off La Guaira, Venezuela, 126 off the area south of Nantucket, Massachusetts, 74 off the east Florida coast, 62 in the Bahamas, 33 off Cancun, 33 off Cozumel, 17 off Puerto Rico, 16 off the coast of the Dominican Republic, 15 off St. Thomas, U.S. Virgin Islands, 14 in the western North Atlantic, 2 off the coast of Cuba, and 1 off Bermuda.

There were 15 white marlin recaptures reported in 1988

(Table 1). Five were recaptured from releases off the Gulf of Mexico: 4 were recaptured in the same general area of release, 1 was recaptured off Cozumel. There were 2 recaptures from Cozumel releases, 1 in the northeastern Gulf of Mexico, and the other off La Guaira. Two recaptures were from Miami releases, 1 off the mid-Atlantic bight and 1 in the same area of release. One recapture was reported from each of the following areas: Nantucket, Massachusetts (recaptured off Montauk Point, New York); Miami (recaptured in the northeast Gulf of Mexico); Hatteras, North Carolina (recaptured in the northeast Gulf of Mexico); Straits of Florida (recaptured off North Carolina); and La Guaira (recaptured in the same area of release). One recapture did not have release information. There were two 1987 recaptures reported in 1988: both were tagged off La Guaira and were recaptured in the same general area of release.

There were 4 white marlin at large for less than 1 year, 3 for 1-2 years, 3 for 2-3 years, 1 for 3-4 years, 1 for over 5 years. The 2 recaptures from 1987 were at large for less than 2 years. The longest distance traveled by a white marlin was from a release off Cozumel and recaptured off La Guaira, a distance of about 1,270 miles.

Blue Marlin

There were 1,626 blue marlin tagged and released in 1988: 1,551 by recreational fishermen, and 75 by commercial fishermen. This is the second year in a row that a record has been set for the most blue marlin tagged in a single year. As last year, it was due in part to the amount of blue marlin tagged off St. Thomas, where 623 blue marlin were tagged and released. Other areas of tagging were: 213 in the Bahamas, 200 off Puerto Rico, 181 in the northeast Gulf of Mexico, 167 off the east coast of Africa, 91 off the Dominican Republic, 80 off the east coast of Florida, 19 off La Guaira, 18 off Bermuda, 16 off the middle Atlantic states, 7 off Cozumel, 3 off the Cayman Islands, 3 in the western north Atlantic (over 200 miles offshore, tagged by commercial fishermen and NMFS observers aboard Japanese longliners), 2 off Cancun, 2 south of Nantucket, and 1 off Colombia, South America.

As we stated in our 1987 newsletter, tagging increased off the west coast of Africa due to the presence of recreational fishermen from the United States fishing in this area.

There were 4 blue marlin recaptures in 1988 (Table 1). Two of the recaptures were from blue marlin tagged and released off St. Thomas: one was recaptured 69 days later off La Guaira, and the other was recaptured 1,461 days later off San Juan. A blue marlin tagged and released off Hatteras was recaptured 263 days later off Morehead City, North Carolina. The last recapture was from a release off Walkers Cay, Bahamas, and was recaptured 884 days later about 108 miles northeast of the release area.

Swordfish

There were 284 swordfish tagged and released in 1988: 214 by commercial fishermen, 68 by observers aboard Japanese longline vessels, and 2 by recreational fishermen. Numbers and areas of fish tagged were: 107 off the east coast of Florida, 34 off the U.S. Virgin Islands, 34 off the coast of Venezuela, 33 in the western north Atlantic (over 200 miles offshore and tagged either by commercial fishermen or NMFS observers aboard foreign fishing vessels), 32 in the Bahamas, 22 in the Gulf of Mexico, 6 off the mid-Atlantic states, 5 each off the north Florida coast, northeastern United States, and Canada, and 1 off Hispaniola.

There were 5 swordfish recaptures in 1988 (Table 1). One swordfish that was released over 700 miles east of Newfoundland was recaptured almost 110 miles east of the release point. There were 3 recaptures from swordfish released off Georges Bank: one was recaptured 144 miles southwest of

the release point, one was recaptured about 400 miles east of New Jersey a distance of 619 miles, and one was recaptured about 75 miles east of Sebastian, Florida, the longest distance traveled by a swordfish (916 miles). A swordfish released off St. Augustine, Florida, was recaptured 625 days later in the Florida Straits, a distance of 340 miles from the release point. This was the longest time at large for a swordfish. Two swordfish were at large for less than 1 year, and 3 were at large for 1-2 years.

Bluefin Tuna

There were 91 bluefin tagged and released in 1988: 54 were tagged and released off the middle Atlantic states, 27 in the northeastern United States (New York to Cape Cod, Massachusetts), 7 in the Gulf of Mexico, and 3 off the east coast of Florida. Recreational fishermen tagged and released 83, and commercial fishermen tagged and released 8.

There were 10 bluefin recaptures in 1988, 2 of which were 1987 recaptures reported in 1988 (Table 1). Commercial fishermen reported 6 recaptures and 4 were reported by recreational fishermen. Five of the recaptures were from fish released off the mid-Atlantic states, 4 were recaptured within 450 miles northeast of their release point, and one was recaptured 95 miles northeast of Spanish Cay, Bahamas (northeastern Bahamas). Two were recaptured from northeastern United States releases, one was recaptured near the release point and the other fish was recaptured over 250 miles southeast of the release point. One recapture did not have release data. The 1987 recoveries were from the mid-Atlantic states releases, both were recaptured northeast of the release area, one traveled 850 miles and the other 450 miles.

One bluefin was at large for less than 1 year, 3 for 8-9 years, 1 for 9-10 years, 1 for 10-11 years, and 1 for over 11 years which was the longest time at large for a bluefin in 1988. The 1987 recoveries were at large for 338 days and 2,662 days (over 7 years). The longest distance traveled by a bluefin recaptured in 1988 was from a release southeast of Ocean City, Maryland, and recaptured off the northeast coast of the Bahamas, a distance of 569 miles. One 1987 recapture traveled northeast 856 miles from the release point.

Yellowfin Tuna

There were 314 yellowfin tuna tagged and released in 1988. Recreational fishermen tagged and released 291, commercial fishermen tagged and released 21, and observers aboard Japanese longliners tagged 2. The major tagging area was off the middle Atlantic states where 150 yellowfin were tagged, 121 in the northern Gulf of Mexico, 19 in the Bahamas, 8 in the eastern Atlantic (off Africa), 7 off the Florida coast, 4 in the northeast Atlantic, 3 off Bermuda, and 1 each off the Virgin Islands and La Guaira. There were 8 yellowfin tuna recaptures reported in 1988, 7 from 1988 and 1 from 1987 (Table 1). There were 4 recaptures from mid-Atlantic releases: 1 was recaptured near the release point, another was recaptured 317 miles southwest of its release point, and 2 made transatlantic migrations to the west coast of Africa, one traveled 3,921 miles in 768 days to an area southwest of Liberia, and the other traveled 3,222 miles in 468 days to the Cape Verde Islands, west Africa. One yellowfin tagged and released 475 miles southwest of Monrovia, Liberia, west Africa, was recaptured 119 miles south of its release point. One yellowfin tagged and released in the northeast Gulf of Mexico was recaptured 1,917 days later 69 miles from its release point. One recapture did not have release information. The 1987 recovery was from a release off the mid-Atlantic, recaptured 306 days later 126 miles from the release point.

Other Tunas

There were a small number of miscellaneous other tuna species tagged and released, and only 2 albacore recaptures were reported, both off the mid-Atlantic states. Both albacore recaptures were in the same area of release.

Tarpon

There were 677 tarpon tagged and released in 1988. The majority of the releases (363) were from the west coast of Florida, 225 were released off the Florida Keys and Miami, 37 in the northern Gulf of Mexico, 27 off the coast of Costa Rica, and 25 off the coast of Mexico.

Three tarpon recaptures were reported: 2 recaptures were from releases at Key West, one was recaptured 258 days later near the point of release and the other recaptured 21 days later off Ft. Myers, Florida. A tarpon tagged and released at Boca Grande, Florida, was recaptured 343 days later at Key West.

Due to budget cuts we were forced to drop tarpon from our list of target species. Because of interest expressed by tarpon fishing enthusiasts and those concerned about the conservation of this species, we will continue to maintain the data base and provide our data for analysis. The distribution and purchasing of tags is now being managed by the Florida League of Anglers. They are attempting to provide tags to those who request them and are purchasing the tags with donations made to them by clubs and individuals. If you would like to assist them by sending a donation please contact:

Florida League of Anglers
c/o Norma Stoppelbein
P.O. Box 1109
Sanibel, Florida 33957

King Mackerel

King Mackerel and Red Drum were added as target species in 1986. In this report only the recreationally associated releases and recaptures will be discussed in detail, recaptures of scientifically released fish will be discussed in general. A report of scientific taggings will be released at a later date.

There were 286 king mackerel tagged and released in 1988 by recreational fishermen: 160 were tagged off Texas, 75 off the east coast of Florida, 31 off the Florida panhandle, 15 off the Louisiana coast, and 5 off North Carolina.

There were 119 recaptures reported in 1988: 79 by recreational fishermen and 33 by commercial fishermen. Seven of these king mackerel were recaptured from recreational releases. Three of the recaptures had been tagged and released off the Texas coast: 1 off Port Aransas and recaptured 329 days later off Sabine, Texas; 2 releases were from the Galveston area, 1 recaptured in the same area of release and the other recaptured 463 days later, 532 miles south at Tecolulta, Veracruz, Mexico. A king tagged and released off Destin, Florida, was recaptured in the same area of release. Another king released off Islamorada, Florida was recaptured in the same area of release. The last recapture was from a king tagged and released off the coast of South Carolina which was recaptured off of North Carolina. There were 112 recaptures of king mackerel tagged and released by scientific staff: 50 recaptures were from releases off the Florida panhandle of which 37 were recaptured in the same area of release, 5 from Key West, 1 from Miami, 2 from Ft. Pierce, Florida, 3 south to mid-west Florida coast, and 2 from the Alabama coast. There were 31 recaptures from king released off the Jupiter-Sebastian area: 25 were recaptured in the same area of release, 4 from North Carolina, and 1 each from Virginia Beach, Virginia, and Jacksonville, Florida. There were 22 recaptures from North Carolina: 20 were recaptured in the same area of release, one was recaptured off South Carolina, and the remaining recapture occurred off Palm Beach. There were 7 recaptures from kings released off the Texas coast:

1 recaptured in the same area of release, 2 traveled north to Sabine, Texas, 1 to Louisiana, 2 off Key Largo, Florida, and the longest migration of a king mackerel, 1,308 miles to the Florida east coast. There were 2 recaptures from kings released off South Carolina, both were recaptured in the same area of release.

Red Drum

There were 809 red drum tagged by recreational fishermen in 1988. The majority of these (574) were tagged in the Florida Panhandle, for the most part by one person, Col. A.D. Davis of Gulf Breeze, Florida. He tagged and released 520 red drum. There were 209 red drum tagged and released off Louisiana, and 13 off the coast of Texas, 6 off the east coast of Florida and 7 off the coasts of North and South Carolina.

There were 64 red drum recaptures reported in 1988. Recreational fishermen released 9 of the recaptures: 6 were from releases off Pensacola Pass, Florida, and were all recaptured in the same area of release; a release from Panama City, Florida, was recaptured at Destin; 2 releases from the Louisiana area were recaptured in the same area of release. Eight of the recaptures had been at large for 1-2 years, and 1 for over 2 years. There were 55 recaptures of red drum released by scientists from Florida, Louisiana, and Texas, all were recaptured near the area of release.

Bait Box

For 8 years we have examined the tagging data concerning the use of live bait and its possible effect on the mortality of sailfish. In 1981, we had data on 175 releases that provided information on bait use. By 1988, data providing information of bait use increased to 2,387 reports. During this period the use of live bait has shown a dramatic increase. This increase is probably due to improved reporting techniques (Table 1). From 1981 to 1982, the recapture rate was greater for dead bait. In 1983, the recapture rate was the same for both baits, and for the period 1984-88, the recapture rates have been greater for live bait. This pattern continues to support our contention, based on tagging data, that there does not appear to be increased mortality of sailfish tagged and released using live bait compared to dead bait.

Tagging Awards

In 1988, six major conservation organizations sponsored special awards for the captains who were responsible for tagging and releasing the most blue marlin, white marlin, sailfish, bluefin tuna, yellowfin tuna and bigeye tuna, and king mackerel. The Cooperative Game Fish Tagging Program sponsors a trophy to the commercial captain who tags the most fish.

The blue marlin trophy, sponsored by the National Coalition for Marine Conservation, was won by Captain Brad Simonds, of Islamorada, Florida, who operates the "MISGUIDED". He tagged and released 56 blue marlin. Captain Simonds won the sailfish trophy in 1987 for tagging 155 sailfish.

The white marlin trophy, sponsored by The Billfish Foundation, was won by Captain Dan Timmons, of Ft. Lauderdale, Florida, who operates the "BEASTMASTER". He tagged and released 67 white marlin. Captain Timmons also won the white marlin trophy in 1987, and tied for 1st place for tagging the most blue marlin. Captain Timmons fishes the Atlantic Ocean, Caribbean Sea, and the Gulf of Mexico.

The sailfish trophy, sponsored by the Sport Fishing Institute, was won by Captain Frank "Skip" Smith of Burnet, Texas. Captain Smith operates the fishing vessel "HOOKER" which travels with the mother ship "Madam" and fishes the Atlantic and Pacific Oceans.

The bluefin tuna trophy, sponsored by the International Game Fish Association, was won by Captain Al Anderson, of Narragansett, Rhode Island, a charter captain of his personal boat. He tagged and released 14 bluefin tuna. Captain Anderson has been a cooperator of the CGFTP for many years and has tagged and released more bluefin than any other program cooperator.

The yellowfin and bigeye tuna trophy, sponsored by AFTCO Manufacturing Company, Irvine, CA, was won by Captain John Bayliss, Manteo, North Carolina. He tagged and released 35 yellowfin tuna. Captain Bayliss is a charter captain of his personal boat.

The trophy for king mackerel, sponsored by the Florida League of Anglers, was won by Captain David Cibluka, Burnet, Texas. He tagged and released 121 king mackerel off the Texas Coast.

The Cooperative Game Fish Tagging Program trophy is awarded to the commercial captain who tags and releases the most fish. The trophy was won by Captain Hank Halliger, Pompano, Florida, who tagged and released 117 billfish and tuna.

The CGFTP extends its congratulations to the winning captains and to the sponsoring organizations for their effort and cooperation in the conservation of our great natural resources. We extend our appreciation to the anglers and other program cooperators.

Tagging Box

We began to acknowledge participants of the CGFTP in 1976. Program participants are acknowledged again this year (see Tables 2 and 3) for target species tagged and released in the Atlantic Ocean, Gulf of Mexico, and the Caribbean Sea. We cannot give participants credit for fish tagged and released unless we receive the tag-release cards. We send you acknowledgment cards as a check to ensure that we have received the release cards and to inform participants that we have received the tagging information. Please make sure your return addresses are correct and legible. Due to operational changes, tag acknowledgement cards will only be sent to the captains. If a name and address is not listed for a captain, acknowledgment cards will be sent to the anglers. If you want an acknowledgment card to be sent to both angler and captain, please note this in the remarks section on the release report card. If you do not receive an acknowledgement card, please inform us as soon as possible. The tag-release cards are occasionally lost in the mail, and if we can find out about the loss before too much time passes, there may be a possibility that we can work together and retrieve the lost data. We also think that it would be a good idea to keep a log of tagging information so that you can provide us with accurate information in case the tag release card is lost in the mail.

If you wish to tag fish in the Pacific Ocean or to tag fish not in our program, please contact the following:

Sharks - Atlantic Ocean Cooperative Shark Tagging Program:

Mr. Jack Casey, NOAA/NMFS
Northeast Fisheries Center
Narragansett Laboratory
P. O. Box 522A
Narragansett, RI 02882

Unrestricted Species (angler pays nominal fee for tags):

American Littoral Society Fish Tagging Program
American Littoral Society
NOAA/NMFS
Sandy Hook Laboratory
Highlands, NJ 02882

Billfishes - Pacific Ocean:

Cooperative Marine Game Fish Tagging
Program
Mr. James L. Squire, Jr.
NOAA/NMFS
La Jolla Laboratory
P. O. Box 271
La Jolla, CA 92027

All Species Recognized by IGFA-Australia:

New South Wales State Fisheries
Box N211 Grosventor St. Post Office
Sydney, NEW 2000 Australia

Table 1. Captains who made outstanding contributions to CGFTP in 1988 by assisting in the tagging of 10 or more blue marlin (BM), white marlin (WM), sailfish (SF), tunas (TN), and swordfish (SW). Angler column signifies fish tagged by captains while fishing as anglers and they are included in the total.

Captains	Species					Total	Tagged as Angler
	BM	WM	SF	SW	TN		
Frank "Skip" Smith	37	34	135	0	9	215	6
Brad Simonds	56	18	119	0	0	193	1
Dan Timmons	25	67	93	0	0	185	0
Fred Riffe	0	14	102	0	1	117	2
Hank Halliger	10	17	14	54	8	103	0
John Bayliss	2	31	6	0	37	76	2
Tommy Sealy	0	3	72	0	1	76	0
Robert Kolb	1	4	61	0	0	66	0
Wade Bailey	4	24	12	10	15	65	0
Rick Ross	13	7	23	18	1	62	1
Tim McDonough	9	6	12	31	2	60	2
John B. Dudas	0	3	55	0	0	58	0
Allen "Al" Gallo	2	4	45	0	0	51	1
Rich Cathcart	8	11	23	5	2	49	0
Randy Jendersee	27	1	20	0	1	49	0
Donald Merten	46	0	0	0	0	46	0
Timothy J. Hyde	1	12	30	0	0	43	1
Bob Grant	41	1	0	0	0	42	1
James Roberts	2	13	27	0	0	42	0
Gregory Werhan	3	23	5	0	8	39	1
Morris Bevis	36	2	0	0	0	38	1
Mike Lemon	35	2	1	0	0	38	1
Fred Rushin	2	4	3	0	28	37	0
"OB" O'Bryan	33	1	0	0	0	34	0
Kevin Deerman	1	4	28	0	0	33	0
Robert Edsberg	2	1	30	0	0	33	0
Don Hamilton	33	0	0	0	0	33	0
Al Johnston, IV	4	6	0	20	2	32	0
William C. Harrison	31	0	0	0	0	31	0
John Sabonis	31	0	0	0	0	31	0
John Stranz	0	1	0	30	0	31	0
Robert Jayne	0	0	27	0	0	27	0
J. Scott Storer	26	1	0	0	0	27	2
Rafael de la Parra	0	0	26	0	0	26	10
Charles Ladnier	1	5	0	0	20	26	2
Joe Lopez	25	0	0	0	0	25	3
J. Oriach	2	17	6	0	0	25	1
Robert Walters	2	3	19	0	0	24	0
Luis Suarez	1	7	15	0	0	23	0
Mike Benitez	18	2	3	0	0	23	0
Frank Branch	23	0	0	0	0	23	0
George Brooks	0	1	22	0	0	23	1
Robert Dehart	2	16	5	0	0	23	0
Al Mercier	0	0	0	23	0	23	0
Chet Rohrbach	1	21	1	0	0	23	0
Mike St. Pierre	23	0	0	0	0	23	0
Steven Forman	0	3	0	19	0	22	0
Bob Pelosi	1	0	18	0	2	21	2
Randolph "Bouncer" Smith	0	0	21	0	0	21	0
Mike Stephens	21	0	0	0	0	21	0
Jim Hardee	4	3	7	4	2	20	0
James E. Lambert	1	0	19	0	0	20	7
Kerry Powell	8	1	0	0	11	20	0
Ben Tribken	0	7	0	0	13	20	0
Bruce Beebe	3	1	0	11	4	19	0
Tim Johnston	5	11	0	3	0	19	0
W. Glenn Loftin	17	1	1	0	0	19	0
Bob Weinkle	19	0	0	0	0	19	3
G. Wheeler	2	1	14	0	2	19	1
Gilbert Burchell	0	18	0	0	0	18	0
WM. E. Doersbacher	0	6	12	0	0	18	1

Table 1 (continued).

Harry Hall	18	0	0	0	0	18	0
Jim Lunsford	4	4	0	0	10	18	0
Roger Greene	16	1	0	0	0	17	0
Richard Halliger	3	1	5	8	0	17	0
Mark Montoya	17	0	0	0	0	17	0
Patrick Nicole	0	0	17	0	0	17	7
Patrick Ross	0	0	16	0	1	17	7
Frank Ayala	12	1	3	0	0	16	0
Finn Crutch	15	1	0	0	0	16	0
Tom Sperl	16	0	0	0	0	16	0
Pete Barrett	0	0	0	0	15	15	6
Dennis Merten	0	0	10	0	5	15	1
Rick O'Neil	15	0	0	0	0	15	2
Tim Adams	0	0	14	0	0	14	0
Al H. Anderson	0	0	0	0	14	14	0
George P. Ballard	1	8	0	0	5	14	0
J. Barlia	11	1	2	0	0	14	1
Trevor Cockle	3	0	11	0	0	14	7
Larry C. Dukehart	0	0	14	0	0	14	0
Ed Dwyer	0	0	14	0	0	14	3
F. E. "Bubba" Gaston	0	0	14	0	0	14	0
Steve Larsson	0	1	13	0	0	14	1
David Reilly	0	0	14	0	0	14	3
Allen de Silva	12	1	0	0	0	13	0
John Flaherty	3	1	6	1	2	13	0
Robert O. MacKay	12	0	1	0	0	13	3
Bill Knoll	0	0	13	0	0	13	1
Tommy Baldwin	1	10	0	0	1	12	0
Juan R. Martinez	11	1	0	0	0	12	0
Louis Pilotti	11	1	0	0	0	12	0
Jeff Roberts	0	0	12	0	0	12	4
Mel Williams	12	0	0	0	0	12	0
Billy Black	11	0	0	0	0	11	0
Shaler Carrington	0	0	0	0	11	11	0
Billy Dill	10	1	0	0	0	11	0
Jim Garrity	3	1	7	0	0	11	0
Bud Gramer	2	2	7	0	0	11	0
Timothy B. Lecky	0	10	0	0	1	11	0
Michael Leech	0	0	11	0	0	11	5
Doug Lindley	0	11	0	0	0	11	0
Luis Millan	3	4	4	0	0	11	0
Louis Pelissard	2	9	0	0	0	11	2
Al Petrosky	10	0	1	0	0	11	0
Michael Wyden	0	0	11	0	0	11	4
Dick Harris	0	0	0	0	10	10	0
Brian Barnhill	2	2	0	0	6	10	0
Humberto Donato	6	3	1	0	0	10	3
Rick Eisenacher	0	1	9	0	0	10	5
Victor Gonzalez	10	0	0	0	0	10	0
Socko Gorenflo	1	0	9	0	0	10	0
Paul Ivey	10	0	0	0	0	10	4
Gary Jarvis	3	6	1	0	0	10	1
Agusto Laje	10	0	0	0	0	10	0
James Loveland	8	2	0	0	0	10	0
Sunny Sebaugh	0	0	0	10	0	10	0
Bill Staros	0	1	9	0	0	10	0
Juan Torruella	5	5	0	0	0	10	5
R. A. Vincente	5	2	3	0	0	10	2

Table 2. Anglers who made outstanding contributions to CGFTP in 1988 by assisting in the tagging of 10 or more blue marlin (BM), white marlin (WM), sailfis (SF), tunas (TN), and swordfish (SW). Captain column signifies fish tagged by anglers while fishing as captains and they are included in the total.

Anglers	Species					Total	Tagged as Captain
	BM	WM	SF	SW	TN		
Russ Hensley	21	47	82	0	0	150	0
Charles E. Bouchard	1	0	46	0	0	47	22
Katie Riffe	0	8	35	0	0	43	0
Thomas O'Connell	0	13	27	0	0	40	0
Jerry Dunaway	4	11	14	0	0	29	0
Ronald L. Ellis	4	1	20	0	0	25	0
Pat Fenwick	1	17	6	0	0	24	0
Peter Constas	21	2	0	0	0	23	0
Rufus Wakeman, II	3	3	17	0	0	23	0
Griffin Allen	0	0	22	0	0	22	0
Harvey Lamm	1	4	17	0	0	22	0
Donald S. Leas, III	0	1	20	0	1	22	0
Sandra Storer	21	1	0	0	0	22	0
J. Richard Jeck	5	0	16	0	0	21	0
NMFS Field Party	0	3	0	16	2	21	5
Edward Gayton	18	0	0	0	0	18	0
Rob Pelosi, Jr.	1	0	15	0	2	18	0
Rodman Leas	1	0	15	0	1	17	5
Richard Landry	3	1	1	0	11	16	2
Lynn Purmort	0	16	0	0	0	16	0
Alan Summers	0	0	16	0	0	16	4
Don A. Wilson	15	0	0	0	0	15	0
Ron Mitchem	0	0	14	0	0	14	5

Table 2 (continued).

John Soule	1	8	0	0	5	14	0
Gerry Penberthy	1	7	5	0	5	13	0
James F. Quisenberry	2	4	7	0	0	13	3
Rafi Terrassa	13	0	0	0	0	13	6
Joseph M. Zimmer	0	0	8	0	5	13	6
Ralph Christiansen	12	0	0	0	0	12	0
Floyd Carrington	0	0	0	0	11	11	0
Charles Donato	8	2	1	0	0	11	0
Mike Erwin	0	7	1	0	3	11	5
Jon D. Kingsley	11	0	0	0	0	11	0
Ellen Lugosch	0	11	0	0	0	11	0
Debrah Maddux	0	7	4	0	0	11	0
Trey Buck	1	2	5	1	1	10	1
Ed Crooks	2	2	6	0	0	10	0
Lyman B. Dickerson	2	1	7	0	0	10	0
Donna Kolb	1	1	8	0	0	10	0
Stephen "Steve" Sloan	0	0	10	0	0	10	0

Table 3. Tagged oceanic pelagic fishes recaptured during 1988 as part of the Cooperative Gamefish Tagging Program, National Marine Fisheries Service, Miami Laboratory. Method of fishing is rod and reel (R/R), longline (LL), purse seine (PS), handline (HL), impoundment (IM), and gill net (GIL). Country abbreviation are: Japan (JAP), Mexico (MX), United States (US), Dominican Republic (DR), Virgin Islands (VI), Cuba (CU), Puerto Rico (PR), Granada (GN), Bahamas (BA), Spain (SP), and Venezuela (VE).

Location and Release Date	Location and Recapture Date	Days at Large	Tagger Captain	Method	Finder Captain	Method
Sailfish						
Marathon, FL 11-30-88	Key Biscayne, FL 12-3-88	3	Sai C. Puma Frank Waters	R/R	Eric Stewart ---	R/R
Cozumel, MX 6-21-88	Cozumel, MX 6-26-88	5	Norm Goodmanson Bob Walters	R/R	Ranier Adolf ---	N/A
Islamorada, FL 12-6-88	Ft. Lauderdale, FL 12-11-88	5	Tim Cantwell ---	R/R	Pat McAndres Patrick Ross	R/R
Miami, FL 4-24-88	Ft. Lauderdale, FL 5-1-88	7	Barbara Ferguson Dan Ferguson	R/R	Bob Harkael ---	R/R
Ft. Pierce, FL 12-10-88	St. Lucie, FL 12-24-88	14	Karen Heinemann Mark Heinemann	R/R	Chuck Reed ---	R/R
Jupiter, FL 12-13-87	Key Largo, FL 1-7-88	25	Bill Camp ---	R/R	Eric Carlson ---	R/R
Palm Beach, FL 12-30-87	Boca Raton, FL 2-6-88	38	Al Stoner Rich Seleski	R/R	Terry Morrison ---	R/R
St. Lucie, FL 1-13-88	Boca Raton, FL 2-27-88	45	Cecil Brown Charlie Waring	R/R	Jeff Bertram ---	R/R
Cozumel, MX 4-16-88	26°03'N, 93°12'W 6-19-88	64	Fred Riffe ---	R/R	Bich Van Tran ---	US LL
St. Lucie, FL 2-28-88	Hollywood, FL 5-8-88	70	Burce C. Gottwald Andy Morris	R/R	Bill Noli ---	R/R
Jupiter, FL 2-6-88	Cape Canaveral, FL 5-7-88	91	Ernie Gore D.L. Harrington	R/R	T. Goldsberry ---	US GIL
Jupiter, FL 1-12-88	Chub Cay, Bahamas 4-19-88	98	Robert Rowan C.E. Bouchard	R/R	John F. Giordano Chip Schaefer	R/R
Miami Beach, FL 11-5-87	Marathon, FL 2-19-88	106	Steve Fuchs Bouncer Smith	R/R	Katie Riffe Fred Riffe	R/R
Key Largo, FL 2-16-88	Ft. Lauderdale, FL 6-18-88	123	Neil Swendsboe C. Griffis	R/R	Caroline White ---	R/R
Cape Canaveral, FL 2-26-88	30°18'N, 81°16'W 7-22-88	147	Ken Kuehne Richard Hayes	R/R	Charles Sutton, Jr. ---	R/R
Cozumel, MX 5-17-88	20°00'N, 70°35'W 10-16-88	152	Tom Keator Capt. Lafitte	R/R	Ronald Valdez ---	R/R
Cape Canaveral, FL 5-28-88	Palm Beach, FL 11-8-88	164	Robert L. Jones Dick Kelly	R/R	Sal Sciarrino ---	R/R
Cancun, MX 4-24-88	13°14'N, 68°10'W 11-17-88	207	Andy Konrath Fred Riffe	R/R	Steve Gates ---	US LL
Cozumel, MX 3-23-88	Palm Beach, FL 10-30-88	221	Joe Harrington George Brooks	R/R	Bernard J. Mopsik ---	R/R
Islamorada, FL 2-17-88	Hillsboro Inlet, FL 11-6-88	263	Barbara Edgar David Purdo	R/R	Marc Wiesel ---	R/R
Jupiter, FL 12-28-87	Ft. Pierce, FL 9-21-88	268	Dodie Hawthorn Jim Hawthorn	R/R	Randy Bradley Ken Moore	R/R

Table 3 (Continued).

Key Biscayne, FL 1-18-88	Pompano Bch., FL 11-12-88	299	J. O'Hara Smith Harry Tellam	R/R	Greg Milford ---	R/R
Islamorada, FL 12-2-87	Ft. Lauderdale, FL 10-28-88	331	Jay Moeller T. D'Espoisto	R/R	J.C. Turner Jim Andrews	R/R
Hobe Sound, FL 1-23-88	Jupiter, FL 12-31-88	343	Hugo Rutherford Tom Stanley	R/R	Capt. Spider ---	R/R
Islamorada, FL 11-14-87	Islamorada, FL 12-12-88	387	Barbara Edgar David Purdo	R/R	Bill Neubauer ---	R/R
Jupiter, FL 3-15-87	Miami, FL 2-28-88	389	Bill Gamper ---	R/R	David Ross Brown ---	R/R
Ft. Lauderdale, FL 12-16-86	Jupiter, FL 1-10-88	390	Linda Hopkinson Bill Noll	R/R	Anthony Maccarone ---	R/R
Key Largo, FL 11-11-87	Ft. Lauderdale, FL 12-24-88	409	Robert. L. Allen Ray Rosher	R/R	Don Leven ---	R/R
Palm Beach, FL 10-3-86	Pompano Beach, FL 2-27-88	512	Rick Grosser Rich Clawges	R/R	John Simpkin Dave Kim	R/R
Ft. Lauderdale, FL 5-27-86	18°00'N, 70°50'W 4-10-88	531	Jimmy David Bennett David	R/R	D. Perez Aquino ---	DR HL
Ft. Pierce, FL 1-17-87	Pompano Beach, FL 12-4-88	689	Nick Guardalabene ---	R/R	Philip Griggs ---	R/R
Jupiter, FL 1-24-86	Ft. Lauderdale, FL 3-12-88	778	Jim Quisenberry ---	R/R	Carl Falin Victor Weiger	R/R
Boca Raton, FL 12-15-85	Palm Beach, FL 3-6-88	812	Wayne Pambianchi C. Peyton, Jr.	R/R	Joe Brewer ---	R/R
Jupiter, FL 12-31-85	Pompano Beach, FL 12-4-88	1069	Nick Smith Angelo Durante	R/R	Arnie Booth ---	R/R
Boca Raton, FL 1-23-85	Stuart, FL 1-3-88	1075	Rob Gunn Tim Jolitz	R/R	Bob Gowar ---	R/R
Palm Beach, FL 12-15-84	Islamorada, FL 1-2-88	1113	Greg Albritton ---	R/R	Dietmar Kossman ---	R/R
Cancun, MX 4-13-84	Cancun, MX 5-2-88	1480	Armando Gasse MX ---	R/R	Brad Simonds ---	R/R

White Marlin

No Release Information	28°48'N, 88°28'W 9-21-88	---	Jon Minh Le ---	US LL		
Cozumel, MX 5-30-88	28°35'N, 89°50'W 7-12-88	43	Jim Barnes Dan Timmons	R/R	Dao Van Hue ---	US LL
Cozumel, MX 4-25-87	La Guaira, Ven. 2-20-88	301	Ralph McDonald Tommy Sealy	R/R	Chris Primavera ---	R/R
La Guaira, Ven. 11-22-87	La Guaira, Ven. 10-7-88	320	Russ Hensley Dan Timmons	R/R	Norberto Rivas ---	N/A
Hatteras, NC 6-19-87	27°35'N, 89°10'W 5-17-88	333	Dewitt H. Loomis C.L. Parker	R/R	Cuong-U-Pham ---	US LL
Nantucket, RI 8-2-87	Montauk Pt. NY 9-12-88	407	Dan Lauria Jack Braird	R/R	Joe E. Frullaney ---	R/R
25°00'N, 80°00'W 8-6-86	27°35'N, 89°10'W 6-1-88	665	John Ertante ---	US LL	Cuong-U-Pham ---	US LL
South Pass, LA 6-19-86	Cozumel, MX 6-2-88	714	Phil Golden P. Gardebled	R/R	Russ Hensley Dan Timmons	R/R
24°59'N, 79°45'W 5-27-86	34°00'N, 76°00'W 6-13-88	746	Ed Whalen, H. Halliger	US LL	Tripp Coffey ---	R/R
Orange Beach, LA 10-3-86	29°30'N, 89°40'W 11-2-88	761	Billy Jackson Ray Famularo	R/R	Dao Van Hue ---	US LL
Southwest Pass, LA 6-19-86	29°20'N, 87°24'W 9-22-88	826	Philip Benezech Joel Greene	R/R	Gregory Werhan ---	US LL
Grand Isle, LA 9-17-84	28°35'N, 89°50'W 7-28-88	1410	F.J. Benezech Joel Greene	R/R	Dao Van Hue ---	US LL
28°30'N, 87°00'W 7-2-83	29°25'N, 87°00'W 7-1-88	1826	Chip Smith Don Bedsole	R/R	John Touchstone ---	R/R
La Guaira, Ven. 7-27-86	12°08'N, 65,40'W 6-3-87*	311	S.N. Campbell Barky Garnsey	R/R	V.A. Rodriguez ---	VE LL

Table 3 (continued).

La Guaira, Ven. 9-13-86	12°08'N, 65°40'W 12-15-87*	458	Ed Gayton Harry Hall	R/R	Jose G. D'alus ---	GN LL
Blue Marlin						
18°40'N, 64°50'W 9-16-88	11°00'N, 64°05'W 11-24-88	69	Mike Stephens ---	R/R	Sixto Villarroel ---	VN N/A
Hatteras, NC 10-6-87	Morehead City, NC 6-25-88	263	Paul L. Sons P. Tokazowski	R/R	Howard Basnight ---	R/R
Walkers Cay Ba. 2-15-86	26°23'N, 79°30'W 7-18-88	884	Thomas Siano ---	R/R	Rick Ross ---	US LL
St. Thomas, VI	San Juan, PR		Lyman J. Spire		H. Quintana, MD	
Swordfish						
47°00'N, 42°00'W 10-15-87	43°50'N, 42°00'W 6-18-88	248	Al Johnston ---	US LL	Jamie Mejuto ---	SP LL
39°37'N, 67°35'W 11-20-87	44°05'N, 58°17'W 8-21-88	275	NMFS Observer ---	JA LL	Charles Swim ---	CA LL
40°28'N, 67°14'W 12-7-86	40°00'N, 69°35'W 6-21-88	562	NMFS Observer JA ---	LL	Mike Monteforte ---	US GIL
40°00'N, 70°00'W 8-27-86	27°54'N, 79°19'W 3-25-88	576	D. Holmberg P. Bilderback	US LL	W. Melrose ---	US LL
29°35'N, 80°10'W 6-29-86	24°17'N, 82°10'W 4-11-88	652	Twig Yelton Don Combs	R/R	Greg Rodriguez ---	US LL
Yellowfin Tuna						
No Release Information	41°00'N, 71°00'W 9-23-88		---		Rodney Aulla ---	US GIL
4°11'N, 11°00'W 3-19-88	2°12'N, 10°57'W 3-27-88	8	Skip Smith ---	R/R	F. X. Bard ---	N/A PS
35°00'N, 75°00'W 6-11-88	35°00'N, 75°00'W 11-10-88	152	Richard Nechay John Bayliss	R/R	John Bayliss ---	R/R
39°38'N, 72°27'W 9-27-87	35°00'N, 75°00'W 6-5-88	252	Ray Schmidt ---	R/R	Dave Rothwell ---	R/R
39°58'N, 73°33'W 8-25-87	17°00'N, 25°00'W 12-5-88	468	Douglas Merrill Jeff Merrill	R/R	Pedro Almeida ---	SP R/R
35°51'N, 74°47'W 1-14-86	2°55'N, 18°20'W 2-21-88	768	NMFS Observer ---	JA LL	F.X. Bard ---	SP PS
28°00'N, 89°00'W 8-6-83	29°00'N, 88°25'W 11-4-88	1917	Joe Weigand Joel Greene	R/R	Dao Van Hue ---	US LL
39°00'N, 71°00'W 9-7-86	41°00'N, 71°40'W 7-10-87*	306	Robin Lehman ---	R/R	Charlie Dodge ---	R/R
Bluefin Tuna						
No Release Information	42°18'N 7-29-88		---		Frank K. Rose ---	N/A
40°00'N, 73°00'W 9-11-87	36°00'N, 75°00'W 6-12-88	274	Mike Levy J. Conzelamn	R/R	Robert E. Layman ---	R/R
36°33'N, 75°21'W 6-21-80	40°11'N, 73°43'W 8-1-88	2960	Scientific Staff	US PS	Thomas Bryant ---	R/R
36°23'N, 75°21'W 6-24-80	42°18'N, 70°25'W 8-20-88	2980	Scientific Staff	US PS	Lionel Vargas ---	US PS
36°46'N, 75°30'W 6-22-80	42°05'N, 70°30'W 10-16-88	3038	Scientific Staff	US PS	Rick Topham ---	US HL
40°56'N, 71°56'W 8-22-78	42°18'N, 70°25'W 8-19-88	3649	Scientific Staff	US PS	Rich Hillhouse ---	US PS
37°20'N, 75°15'W 7-2-77	27°54'N, 76°12'W 5-24-88	3978	Scientific Staff	US PS	Don Taylor ---	US LL
37°20'N, 75°22'W 7-3-77	42°18'N, 70°25'W 8-17-88	4062	Scientific Staff	US PS	Frank Cyganowski ---	US PS
36°29'N, 75°45'W 6-21-87	44°35'N, 64°00'W 8-17-87*	338	Scientific Staff	US PS	Peter Garrison ---	CA IM
36°31'N, 70°40'W 6-22-80	42°03'N, 65°33'W 10-6-87*	2662	Scientific Staff	US PS	David A. Link ---	R/R

Note: *=1987 recaptures reported in 1988