1991 Annual Report of the Sea Turtle Stranding and Salvage Network: Atlantic and Gulf Coasts of the United States

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Wendy G. Teas

National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Southeast Fisheries Science Center
Miami Laboratory
75 Virginia Beach Drive
Miami, FL 33149

Miami Laboratory
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The Sea Turtle Stranding and Salvage Network (STSSN) was formally established in 1980 to collect information on and document strandings of marine turtles along the U.S. Gulf of Mexico and Atlantic coasts. The network encompasses the coastal areas of the eighteen state region from Maine through Texas, and includes portions of the U.S. Caribbean. Data are compiled through the efforts of network participants who document marine turtle strandings in their respective areas and contribute those data to the centralized STSSN data base.

This report summarizes marine turtle strandings documented through the efforts of the STSSN during calendar year 1991. These numbers are considered minimum stranding figures, as they are reported strandings only, not all stranding events. Effort expended in the collection of stranding data during 1991 varied both geographically and temporally. Coverage ranged from systematic weekly (or more frequent) sampling to opportunistic reporting in some areas.

A total of 1682 stranded marine turtles were reported during 1991. Of these, 1656 were "wild" strandings and the remaining 26 were known headstarted turtles. Headstarted turtles are hatched and raised in captivity for approximately one year before being tagged and released. Strandings of headstarted turtles are documented in Table 30, but are <u>not</u> included in any of the figures presented in the text or in the histograms. Strandings of headstarted turtles are excluded because they may represent a bias if their stranding was an artifact of captive rearing and release. Reports of incidentally captured turtles and live sighting reports received through the network were archived, but are not included in this report as these records were not considered to be true strandings. True strandings are defined as turtles which wash ashore dead or alive or are found floating dead or alive (generally in a weakened condition).

Fifteen states reported strandings during the twelve month period. They are: Texas, Louisiana, Mississippi, Alabama, Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, New Jersey, New York, Connecticut, Rhode Island and Massachusetts. No stranding reports were received from Delaware, New Hampshire or Maine. For the U.S. Caribbean, records were received from Puerto Rico and the U.S. Virgin Islands.

ANNUAL COMPARISON

Figure 1 depicts annual stranding totals for all species combined over the entire network area. Direct annual comparisons are complicated by the variation in effort between and/or within years. Network-wide, data collection efforts have been most consistent since 1984. The 1991 stranding total of 1656 represents a 34.2% decrease from the 1990 stranding total. The 1991 total is the

lowest annual total since 1985, and accounts for 8.0% of all reported strandings over the eleven year period 1980-1991.

STATE AND REGIONAL DISTRIBUTION

Reported strandings during 1991 are summarized by state in Table 1 and Figure 2. Florida reported the highest number of strandings during 1991, accounting for 46% of the total (12% Florida-Gulf, 34% Florida-Atlantic). Georgia and Texas each accounted for 11% of the total reported strandings, followed by North Carolina and Virginia accounting for 8% and 6%, respectively.

Regionally, 24.9% of total strandings were reported from the Gulf of Mexico (TX, LA, MS, AL, FL-Gulf), 57.8% from the southeast U.S. Atlantic (FL-Atlantic, GA, SC, NC), 14.9% from the northeast U.S. Atlantic (VA, MD, DE, NJ, NY, CT, RI, MA, NH, ME), and 2.4% from the U.S. Caribbean (PR, USVI). Stranding records are summarized on a detailed state by state basis in Tables 4-21. These tables summarize strandings by species and month (all counties combined) and by county and month (all species combined).

Network-wide, 75.5% of all reports were classified as offshore strandings and 24.5% were classified as inshore strandings. Offshore strandings are defined as strandings occurring on the ocean beaches, while inshore strandings are those occurring landward of the ocean coastline, primarily in bays and sounds. The regional distribution of inshore versus offshore strandings for 1991 (excluding the Caribbean) is as follows:

	GULF	SOUTHEAST U.S.	NORTHEAST U.S.
INSHORE	121 (29.3%)	144 (15.0%)	135 (54.9%)
OFFSHORE	292 (70.7%)	813 (85.0%)	111 (45.1%)

SPECIES COMPOSITION

Throughout the network, loggerheads (*Caretta caretta*) were the most frequently stranded species making up 59.2% (980) of the total. Green turtles (*Chelonia mydas*) were the second most frequently reported species at 15.0% (248); Kemp's ridley (*Lepidochelys kempi*) strandings comprised 11.5% (190) of the total; leatherbacks (*Dermochelys coriacea*) accounted for 8.6% (143) of all reports; and hawksbills (*Eretmochelys imbricata*) were reported least frequently making up 1.9% (32) of the total. Turtles not identified to species accounted for 3.8% (63) of all reports. Figures 3-5 depict total strandings by species for the Gulf of Mexico, southeast U.S. Atlantic, and northeast U.S. Atlantic, respectively.

Within each region (excepting the Caribbean), loggerheads were the most frequently stranded species accounting for 50% (205), 65% (621), and 63% (154) of the region totals for the Gulf, southeast U.S. Atlantic, and northeast U.S. Atlantic, respectively. In the Gulf of Mexico, Kemp's ridleys were the second most frequently stranded species comprising 26% (108) of the total, followed by green turtles comprising 15% (60), leatherbacks 2% (9), and hawksbills 2% (7). In the southeast U.S. Atlantic, green turtles were the second most frequently stranded species accounting for 17% (161) of all reports, with leatherbacks accounting for 8% (77), Kemp's ridleys 5% (51) and hawksbills 2% (17). In the northeast U.S. Atlantic, leatherback strandings accounted for 23% (57) of the region total, with Kemp's ridleys comprising 13% (31) and green turtles accounting for 1% (2). Green turtles stranded most frequently in the U.S. Caribbean accounting for 63% (25) of all reports followed by hawksbills accounting for 20% (8).

In 1991, leatherbacks were the only species to strand in increased numbers network-wide, with strandings up 40% over 1990 totals. This increase occurred only in the northeast U.S. Atlantic and southeast U.S. Atlantic, with strandings increasing from 31 to 57 and 57 to 77 in these two regions respectively. Over one-third of the leatherbacks reported from the southeast U.S. stranded along the Georgia coast during April, most likely as a result of fisheries interactions. Strandings of leatherbacks in the Gulf of Mexico decreased from 14 in 1990 to 8 in 1991. A single leatherback stranding was reported from the U.S. Caribbean during 1991.

As compared to 1990, strandings of Kemp's ridleys in 1991 decreased 44% for all regions combined. This decrease occurred in all regions, with strandings in the Gulf of Mexico, southeast U.S. Atlantic and northeast U.S. Atlantic decreasing from 185 to 108, 94 to 51, and 61 to 31, respectively. No Kemp's ridley has ever been reported to the STSSN from the U.S. Caribbean.

Strandings of hawksbills in 1991 decreased 48% from 1990 totals for all regions combined. This decrease occurred only in the Gulf of Mexico and U.S. Caribbean, with strandings decreasing from 32 to 7 and 21 to 8, respectively. Strandings of hawksbills in the southeast U.S. Atlantic increased from 8 in 1990 to 17 in 1991. No hawksbill strandings were reported from the northeast U.S. Atlantic during 1991.

Strandings of loggerheads decreased 39% from 1990 to 1991 for all regions combined. This decrease occurred in all regions except the Caribbean, with strandings in the Gulf of Mexico, southeast U.S. Atlantic and northeast U.S. Atlantic decreasing from 309 to 205, 1078 to 621, and 211 to 154, respectively.

Network-wide, 1991 strandings of green turtles decreased 25% from 1990 levels. Strandings of green turtles decreased from 93 to 60

in the Gulf of Mexico, from 226 to 161 in the southeast U.S. Atlantic, and from 5 to 2 in the northeast U.S. Atlantic. In the U.S. Caribbean, green turtle strandings increased from 5 in 1990 to 25 in 1991, with this increase most likely being the result of increased effort expended in data collection.

DISTRIBUTION BY STATISTICAL ZONE

Strandings were summarized by statistical zones to examine the geographic distribution within regions. The statistical zones utilized were originally designed by the Bureau of Commercial Fisheries (now NMFS) for shrimp catch and effort data collection and have subsequently been used to define areas where turtle excluder devices (TEDs) are required. The actual coastal areas encompassed by each of the zones are not equal. Tables 22-24 summarize 1991 strandings by month and zone for the Gulf of Mexico, southeast U.S. Atlantic and northeast U.S. Atlantic, respectively.

There are 23 zones in the U.S. Gulf of Mexico (Figure 6). Zones 1 through 21 are numbered consecutively along the Gulf coast from the Florida Keys to the Mexico border. Zones 24 and 25 are partial zones, shared with the southeast U.S. Atlantic region, and include the area west of longitude 80°30'. Total strandings by zone for the Gulf of Mexico are depicted in Figure 6. Strandings in the eastern Gulf of Mexico (zones 1-12, 24, 25) accounted for 54% (222) of the total, while strandings in the western Gulf (zones 13-21) accounted for the other 46% (191). Strandings in zones 17-21 declined substantially from the previous year's abnormally high levels, decreasing from 390 in 1990 to 190 in 1991. Strandings in all other zones in the Gulf of Mexico remained relatively consistent with 1990 levels. Seventy-seven percent (77%) (83) of all Gulf Kemp's ridley strandings were reported from the western Gulf, with the majority of these turtles stranding in zones 17-20 along the Texas/Louisiana coasts.

Thirteen statistical zones are defined by degree of latitude for the southeast U.S. Atlantic. Zones are numbered from south to north, based on the line of latitude which forms the southern boundary of the zone (Figure 7). Zones 24 and 25 are partial zones which include the area east of longitude 80°30'. Zone 36 is also a partial zone, ending at the North Carolina/Virginia border. Figure 7 depicts total southeast U.S. strandings by statistical zone. The highest stranding total was reported from zone 30 off the northeast Florida coast and southern tip of Georgia with 20% (193) of all southeast U.S. strandings occurring in this zone. Zone 30 has had the highest number of strandings in the network since 1984. Zones 27 and 31 accounted for the second and third highest stranding frequencies, comprising 18% and 11% of the region total, respectively. Total strandings in all southeast U.S. Atlantic zones decreased from 1990 levels. Zones 30 and 31 accounted for 69% of all southeast U.S. Kemp's ridley strandings.

Kemp's ridley strandings in these zones decreased from 53 in 1990 to 35 in 1991. Strandings of Kemp's ridleys in zone 35 decreased from an abnormally high level (11) in 1990 to 4 in 1991. Strandings of Kemp's ridleys in all other zones remained relatively consistent with 1990 levels.

Nine statistical zones are defined for the northeast U.S. Atlantic beginning with the Virginia portion of Zone 36 and continuing north through Zone 44, ending at the Canadian border (Figure 8). The northeast U.S. portion of zone 36 and zone 37 accounted for 42% of the total northeast U.S. strandings and primarily represent turtles stranding in Chesapeake Bay and along the Virginia barrier beaches. Strandings in zones 40 and 41 accounted for 41% of the total northeast U.S. strandings; about one quarter of these strandings were the result of cold-stunning as water temperatures dropped in late fall and early winter. Seventy-one percent (71%) of all northeast U.S. Kemp's ridley strandings were reported from zones 40, 41 and 42, the majority resulting from cold-stunning.

SYSTEMATIC SAMPLING

Sampling in selected statistical zones was completed systematically to develop an index of mortality that can be compared spatially and temporally. During 1991, sampling was conducted either aerially or on the ground within zones 4 and 5 by the Florida Department of Natural Resources. Ground sampling within zones 17 through 21 was coordinated by the NMFS Southeast Fisheries Science Center, Galveston Laboratory. Dr. Lew Ehrhart, University of Central Florida, sampled via aerial survey in zones 28 through 30. The Georgia Department of Natural Resources conducted ground surveys in zone 31. In South Carolina, the Department of Wildlife and Marine Resources continued aerial surveys on a systematic basis within zone 32.

Given the systematic sampling regime within these zones and that the stranding data reported still represents minimum numbers, these data, when standardized for effort, provide an <u>index</u> of total mortality. The peak in total strandings in the western Gulf of Mexico (zones 17-21) occurred in July/August. Almost half of the turtles stranding during these two months were Kemp's ridleys (Table 26). In the eastern Gulf of Mexico (zones 4 and 5) strandings were highest in the months of March and July with a third of the strandings in these zones occurring during these two months (Table 25). April and May were the peak stranding months for zones 28-30, accounting for 45% of all strandings in these zones (Table 27). In zone 31, strandings also peaked in April/May with 72% of all strandings in this zone occurring during these two months (Table 28). The peak in total strandings in zone 32 occurred during May accounting 38% of the total strandings in this zone (Table 29).

TEMPORAL DISTRIBUTION OF STRANDINGS

Table 2 summarizes 1991 strandings by state and month for all species combined. Table 3 summarizes strandings by species and month for all states combined. Figures 9-11 depict monthly stranding frequencies for 1990 and 1991 for the Gulf of Mexico, southeast U.S. Atlantic and northeast U.S. Atlantic, respectively.

The monthly frequency distribution for Gulf of Mexico strandings is presented in Figure 9. Strandings occurred in all months with a peak during July/August. Strandings in the Gulf of Mexico in 1991 were lower than 1990 levels in all months except March, with the most dramatic decreases occurring during April, July, November and December.

In the southeast U.S. Atlantic (Figure 10), strandings peaked during April/May. Strandings in 1991 were lower than in 1990 in all months except January and April. Strandings during March, June, July, September, October, November and December 1991 decreased to less than half the 1990 stranding levels.

In the northeast U.S. Atlantic (Figure 11), strandings were relatively consistent during the time period May - October, with the highest number occurring in June. No clear peak in strandings occurred, in contrast to previous years which usually peaked during May/June. Strandings in 1991 were much lower than 1990 in June and November; conversely, strandings were slightly higher in 1991 during July - October.

CONDITION OF STRANDED TURTLES

Of 1656 stranded turtles, 89.7% were dead, 9.5% were alive, and the conditions of the remaining 0.8% were not recorded. Of the 157 live turtles, 25% were released, 44% subsequently died, and the fates of the remaining 48 turtles (31%) are unknown. A total of 172 turtles (10.4%) were reported as necropsied. The conditions of the 1486 turtles stranded <u>dead</u> were reported as follows:

Fresh Dead	293 (19.7%)
Moderately Decomposed	633 (42.6%)
Severely Decomposed	445 (30.0%)
Dried Carcass	64 (4.3%)
Skeleton, Bones Only	51 (3.4%)

CARCASS ANOMALIES

Observations (not necessarily causes of death) recorded on stranding reports are coded as a permanent part of each stranding record. Selected carcass anomalies are summarized below; 1990 values are given for comparison. These figures are considered

minimum percent occurrences, as a report form lacking remarks does not always indicate a "clean" turtle. Used herein, "entangled" implies washed ashore (i.e. a true stranding) with the entangling materials still attached to the turtle.

	1990	1991
Boat Related Injuries (Prop or Collision)	8.7%	13.0%
Carapace Damage (Unknown Cause)	10.4%	10.5%
Plastron Damage (Unknown Cause)	1.2%	1.3%
Skull Injuries	2.3%	2.1%
Skull Missing	1.8%	2.2%
Skull & Flipper(s) Combination Missing	7.8%	6.9%
Flipper(s) Missing (Unknown Cause)	6.7%	8.0%
Flipper(s) Missing (Man Induced)	0.1%	0.1%
Partial Flipper Damage (Unknown Cause)	8.0%	6.2%
Bullet Wounds	0.5%	0.4%
Apparent Shark Wounds	2.8%	3.2%
External Tumors	2.7%	3.3%
Apparent Deliberate Mutilation	1.6%	1.9%
Tar or Oil Impact	0.6%	1.1%
Cold Stun Related	2.9%	2.0%
Entangled in Fishing Line	1.0%	1.3%
Entangled in Fishing Net	0.4%	0.5%
Entangled in Non-Fishing Gear Materials	0.6%	0.6%
Rope(s) Tied to Flippers, Neck or Body	0.2%	0.2%
Fishing Line Protruding From Mouth or Cloaca	0.2%	0.2%
Fishing Hook in Mouth	0.2%	0.4%
Plastic Ingestion (Non-Fishing Gear)	2.3%*	5.2%*
Fishing Hook in Digestive Tract	1.8%*	1.2%*
Fishing Line in Digestive Tract	1.4%*	1.2%*

*Rates of occurrence of anomalies observable <u>only</u> upon necropsy are expressed as a percentage of turtles necropsied (1990, N=219; 1991, N=172).

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I would like to thank the state coordinators (listed on the following pages) and hundreds of network participants who documented marine turtle strandings during 1991. The STSSN would not exist without the hard work and dedication of these people. Special thanks to Brenda Smith of the NMFS Miami Laboratory for preparing the tables for this report.

SEA TURTLE STRANDING AND SALVAGE NETWORK (STSSN)

U.S. Atlantic and Gulf of Mexico

(June 1992)

Network Coordinator:

Wendy Teas
National Marine Fisheries Service
Miami Laboratory
75 Virginia Beach Drive
Miami, FL 33149
(305) 361-4544

Cooperating Coordinators:

Chuck Oravetz
National Marine Fisheries Service
Southeast Regional Office
9450 Koger Boulevard
St. Petersburg, FL 33702
(813) 893-3366

Jack Woody
U.S. Fish and Wildlife Service
P.O. Box 1306
Albuquerque, NM 87103
(505) 766-8062

Doug Beach/Colleen Coogan
National Marine Fisheries Service
Northeast Regional Office
One Blackburn Drive
Gloucester, MA 01930-2298
(508) 281-9300

Edward Klima/Charles Caillouet
National Marine Fisheries Service
Galveston Laboratory
4700 Avenue U
Galveston, TX 77550
(409) 766-3500

Earl Possardt
U.S. Fish and Wildlife Service
3100 University Blvd. South
Jacksonville, FL 32216
(904) 791-2580

State Coordinators:

Texas

Donna Shaver
Padre Island National Seashore
9405 South Padre Island Drive
Corpus Christi, TX 78418
(512) 949-8173

Louisiana

Joseph Choromanski
Aquarium of the Americas
111 Iberville Street
New Orleans, LA 70130
(504) 565-3006

Mississippi

Gary Hopkins
Gulf Islands National Seashore
3500 Park Road
Ocean Springs, MS 39564
(601) 875-9057

Alabama

Robert Shipp, Ph.D.
University of South Alabama
Department of Biology
Mobile, AL 36688
(205) 460-6351

Florida

Barbara Schroeder
Florida DNR
Bureau of Marine Research
19100 SE Federal Hwy.
Tequesta, FL 33469
(407) 575-5408

Georgia

Charles Maley
Georgia DNR
Marine Resources Division
1200 Glynn Avenue
Brunswick, GA 31523
(912) 264-7218

South Carolina

Sally Murphy
South Carolina Wildlife and
Marine Resources Department
Box 12559
Charleston, SC 29412
(803) 795-6350

North Carolina

Tom Henson
North Carolina Wildlife
Resources Commission
Route 1, Box 724B
Chocowinity, NC 27817
(919) 946-1969

Virginia

Jack Musick, Ph.D.
College of William & Mary
Virginia Inst. of Marine
Science
Gloucester Point, VA 23062
(804) 642-7317

Maryland

Cindy Driscoll, Ph.D.
Maryland DNR
904 South Morris Street
Oxford, MD 21654
(410) 226-5901

State Coordinators: (Continued)

Delaware

Lisa Gelvin-Innvaer
Delaware DNR
Division of Fish and Wildlife
P.O. Box 1401
Dover, DE 19903
(302) 739-4782

New Jersey

Robert Schoelkopf
Marine Mammal Stranding Center
P.O. Box 773
Brigantine, NJ 08203
(609) 266-0538
(609) 348-5018

New York

Sam Sadove
Okeanos Foundation
P.O. Box 776
Hampton Bays, NY 11946
(516) 728-4522
(516) 728-4523

Connecticut

Robert Nawojchik
Mystic Marinelife Aquarium
55 Coogan Blvd.
Mystic, CT 06355
(203) 536-9631

Rhode Island

C. Robert Shoop, Ph.D.
University of Rhode Island
Department of Zoology
Kingston, RI 02882
(401) 792-2372

Massachusetts (Boston South)

Robert Prescott
Massachusetts Audubon Society
Wellfleet Bay Wildlife
Sanctuary
P.O. Box 236
South Wellfleet, MA 02663
(508) 349-2615

Massachusetts (Boston North),
New Hampshire, Maine

Greg Early
New England Aquarium
Central Wharf
Boston, MA 02110
(617) 973-5247
(617) 973-5200

Puerto Rico

Kathy Hall
Puerto Rico DNR
P.O. Box 560
San Antonio, PR 00690
(809) 872-6513

U.S. Virgin Islands

Ralf Boulon
Department of Conservation and Cultural Affairs
Division of Fish and Wildlife
101 Estate Nazareth
St. Thomas, USVI 00802
(809) 775-6762

Table 1. Marine turtle strandings reported from 1 January - 31 December 1991 by state and species of occurrence. All months are combined. Only states which reported strandings are included.

State	Species*						
	CC	CM	DC	EI	LK	UN	TOTAL
Texas	73	11	4	6	72	10	176
Louisiana	2	1	1	0	11	0	15
Mississippi	14	0	0	0	9	2	25
Alabama	4	0	0	0	0	0	4
Florida (Gulf)	111	48	3	1	16	13	192
Florida (Atlantic)	337	155	24	17	14	21	568
Georgia	118	1	36	0	26	2	183
South Carolina	60	1	11	0	5	1	78
North Carolina	107	4	6	0	6	6	129
Virginia	91	0	5	0	6	1	103
Maryland	13	0	0	0	1	0	14
New Jersey	27	0	11	0	3	1	42
New York	16	1	24	0	10	0	51
Connecticut	0	0	1	0	0	0	1
Rhode Island	1	0	11	0	0	0	12
Massachusetts	6	1	5	0	11	0	23
Puerto Rico	0	18	1	6	0	6	31
U.S. Virgin Islands	0	7	0	2	0	0	9
TOTAL	980	248	143	32	190	63	1656

*CC = C.caretta, CM = C.mydas, DC = D.coriacea, EI = E.imbricata, LK = L.kempi, UN = Unidentified

Table 2. Marine turtle strandings reported from 1 January - 31 December 1991 by state and month of occurrence. All species are combined.

STATE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Texas	3	1	20	12	8	11	32	32	22	16	8	11	176
Louisiana	0	0	0	2	3	2	0	6	0	2	0	0	15
Mississippi	0	1	0	1	2	11	5	3	2	0	0	0	25
Alabama	0	0	1	1	0	0	2	0	0	0	0	0	4
Florida (Gulf)	13	13	25	21	13	19	27	21	19	9	5	7	192
Florida (Atl)	66	42	38	92	78	54	39	34	33	33	23	36	568
Georgia	0	0	0	91	42	8	12	15	10	3	1	1	183
South Carolina	0	0	0	11	23	14	10	6	6	3	5	0	78
North Carolina	12	1	1	10	30	24	9	7	6	13	7	9	129
Virginia	0	0	1	0	38	36	9	6	4	7	1	1	103
Maryland	0	0	0	0	2	3	0	1	4	3	1	0	14
New Jersey	0	0	0	0	0	2	14	8	7	11	0	0	42
New York	1	1	0	0	0	2	7	9	8	8	3	12	51
Connecticut	0	0	0	0	0	0	0	0	0	1	0	0	1

(continued)

Table 2. Continued.

STATE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Rhode Island	0	0	0	0	0	0	1	4	6	1	0	0	12
Massachusetts	2	0	0	0	0	0	4	0	2	0	4	11	23
Puerto Rico	2	0	1	5	1	2	3	9	1	0	2	5	31
Virgin Islands	0	0	1	0	3	1	3	1	0	0	0	0	9
TOTAL	99	59	88	246	243	189	177	162	130	110	60	93	1656

Table 3. Marine turtle strandings reported from 1 January - 31 December 1991 by species and month of occurrence. All states are combined.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	36	24	41	149	164	146	109	93	77	65	31	45	980
C. mydas	39	23	26	28	27	14	23	13	11	9	12	23	248
D. coriacea	6	6	5	33	22	9	6	13	17	16	6	4	143
E. imbricata	3	4	1	2	5	3	2	5	3	2	1	1	32
L. kempi	11	0	12	23	20	12	27	27	14	17	9	18	190
Unidentified	4	2	3	11	5	5	10	11	8	1	1	2	63
TOTAL	99	59	88	246	243	189	177	162	130	110	60	93	1656

Table 4(a). Marine turtle strandings reported from TEXAS, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	2	1	10	5	2	5	9	16	6	8	2	7	73
C. mydas	0	0	2	1	1	0	2	2	1	0	2	0	11
D. coriacea	0	0	0	3	0	1	0	0	0	0	0	0	4
E. imbricata	0	0	0	0	1	0	0	2	2	1	0	0	6
L. kempi	1	0	8	3	4	5	16	11	9	7	4	4	72
Unidentified	0	0	0	0	0	0	5	1	4	0	0	0	10
TOTAL	3	1	20	12	8	11	32	32	22	16	8	11	176

Table 4(b). Marine turtle strandings reported from TEXAS, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Jefferson	0	0	4	1	1	0	2	0	4	5	1	0	18
Galveston	0	1	0	1	2	2	14	15	3	4	2	2	46
Brazoria	0	0	0	1	0	0	0	1	0	0	0	0	2
Matagorda	0	0	0	0	0	2	3	0	0	0	0	0	5
Calhoun	0	0	0	1	2	1	4	10	8	2	0	0	28
Aransas	0	0	0	0	0	1	1	2	2	1	0	0	7
San Patricio	0	0	1	0	0	0	0	0	0	1	0	0	2
Nueces	0	0	0	0	2	3	2	2	3	1	3	2	18
Kleberg	1	0	1	1	0	1	4	0	2	1	2	1	14
Kenedy	1	0	9	3	1	1	1	0	0	1	0	5	22
Willacy	0	0	1	0	0	0	0	0	0	0	0	1	2
Cameron	1	0	4	4	0	0	1	2	0	0	0	0	12
TOTAL	3	1	20	12	8	11	32	32	22	16	8	11	176

Table 5(a). Marine turtle strandings reported from LOUISIANA, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	1	1	0	0	0	0	0	0	0	2
C. mydas	0	0	0	1	0	0	0	0	0	0	0	0	1
D. coriacea	0	0	0	0	1	0	0	0	0	0	0	0	1
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	1	2	0	6	0	2	0	0	11
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	2	3	2	0	6	0	2	0	0	15

Table 5(b). Marine turtle strandings reported from LOUISIANA, 1 January - 31 December 1991 by parish and month of occurrence. All species are combined. Only parishes from which strandings were reported are included.

PARISH	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Jefferson	0	0	0	0	0	1	0	0	0	0	0	0	1
Cameron	0	0	0	2	3	1	0	6	0	2	0	0	14
TOTAL	0	0	0	2	3	2	0	6	0	2	0	0	15

Table 6(a). Marine turtle strandings reported from MISSISSIPPI, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	1	0	1	1	8	1	2	0	0	0	0	14
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	0	0	0	0	0	0
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	3	3	1	2	0	0	0	9
Unidentified	0	0	0	0	1	0	1	0	0	0	0	0	2
TOTAL	0	1	0	1	2	11	5	3	2	0	0	0	25

Table 6(b). Marine turtle strandings reported from MISSISSIPPI, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Jackson	0	1	0	0	2	5	1	0	1	0	0	0	10
Harrison	0	0	0	0	0	6	4	2	1	0	0	0	13
Hancock	0	0	0	1	0	0	0	1	0	0	0	0	2
TOTAL	0	1	0	1	2	11	5	3	2	0	0	0	25

Table 7(a). Marine turtle strandings reported from ALABAMA, 1 January - 31 Decemember 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	1	1	0	0	2	0	0	0	0	0	4
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	0	0	0	0	0	0
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	1	0	0	2	0	0	0	0	0	4

Table 7(b). Marine turtle strandings reported from ALABAMA, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Baldwin	0	0	1	1	0	0	2	0	0	0	0	0	4
TOTAL	0	0	1	1	0	0	2	0	0	0	0	0	4

Table 8(a). Marine turtle strandings reported from FLORIDA (GULF), 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	10	6	10	10	8	16	19	12	13	5	1	1	111
C. mydas	1	7	8	5	2	1	6	3	4	3	3	5	48
D. coriacea	0	0	1	0	0	0	0	2	0	0	0	0	3
E. imbricata	1	0	0	0	0	0	0	0	0	0	0	0	1
L. kempi	1	0	4	4	2	0	0	3	1	1	0	0	16
Unidentified	0	0	2	2	1	2	2	1	1	0	1	1	13
TOTAL	13	13	25	21	13	19	27	21	19	9	5	7	192

Table 8(b). Marine turtle strandings reported from FLORIDA (GULF), 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Monroe	3	7	8	4	3	1	10	8	10	4	2	4	64
Collier	0	2	3	0	0	0	1	0	2	0	0	0	8
Lee	5	2	4	4	2	2	2	0	3	0	1	1	26
Charlotte	0	0	1	0	0	2	0	0	0	0	0	0	3
Sarasota	1	0	1	3	0	1	5	4	1	1	0	0	17
Manatee	0	0	0	0	1	0	1	0	0	0	0	0	2
Hillsborough	1	0	2	0	0	1	1	1	1	0	1	0	8
Pinellas	2	2	4	2	1	2	2	2	2	2	0	1	22
Pasco	0	0	0	0	0	0	0	1	0	0	1	0	2
Citrus	0	0	0	0	0	0	0	1	0	0	0	0	1
Franklin	0	0	0	4	0	1	1	0	0	0	0	0	6
Gulf	0	0	0	1	0	1	1	0	0	0	0	0	3
Bay	0	0	1	1	3	4	2	1	0	0	0	0	12
Walton	0	0	0	0	1	2	0	0	0	0	0	0	3
Okaloosa	1	0	0	1	1	0	0	0	0	0	0	1	4
Santa Rosa	0	0	0	0	0	0	0	1	0	0	0	0	1
Escambia	0	0	1	1	1	2	1	2	0	2	0	0	10
TOTAL	13	13	25	21	13	19	27	21	19	9	5	7	192

Table 9(a). Marine turtle strandings reported from FLORIDA (ATLANTIC), 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	17	14	19	62	52	38	26	27	25	22	14	21	337
C. mydas	35	16	13	16	20	11	11	5	6	6	6	10	155
D. coriacea	6	6	4	0	0	0	0	0	0	1	3	4	24
E. imbricata	2	4	1	2	3	3	0	0	1	1	0	0	17
L. kempi	3	0	0	4	3	0	2	0	0	2	0	0	14
Unidentified	3	2	1	8	0	2	0	2	1	1	0	1	21
TOTAL	66	42	38	92	78	54	39	34	33	33	23	36	568

Table 9(b). Marine turtle strandings reported from FLORIDA (ATLANTIC), 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Nassau	2	0	1	13	11	5	5	1	4	0	0	0	42
Duval	3	3	2	14	10	4	2	3	5	0	4	0	50
St. John's	2	2	0	9	4	6	3	4	3	2	3	4	42
Flagler	0	2	0	3	1	0	0	0	0	2	1	1	10
Volusia	9	7	6	6	3	0	2	0	2	3	3	4	45
Brevard	7	5	4	20	14	17	5	7	5	7	3	6	100
Indian River	9	10	6	6	4	1	3	3	4	3	0	3	52
St. Lucie	20	4	8	3	3	8	5	4	3	3	3	4	68
Martin	2	2	1	5	5	4	1	3	1	1	4	2	31
Palm Beach	4	4	4	6	14	5	8	3	2	5	1	7	63
Broward	4	3	1	4	4	4	0	1	0	3	1	0	25
Dade	3	0	4	3	2	0	4	2	2	3	0	5	28
Monroe	1	0	1	0	3	0	1	3	2	1	0	0	12
TOTAL	66	42	38	92	78	54	39	34	33	33	23	36	568

Table 10(a). Marine turtle strandings reported from GEORGIA, 1 January - 31 December 1991 by species and month of occurrence

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	50	28	7	10	13	9	1	0	0	118
C. mydas	0	0	0	0	0	0	0	0	0	0	0	1	1
D. coriacea	0	0	0	29	7	0	0	0	0	0	0	0	36
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	11	6	1	2	2	1	2	1	0	26
Unidentified	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	0	0	91	42	8	12	15	10	3	1	1	183

Table 10(b). Marine turtle strandings reported from GEORGIA, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Chatham	0	0	0	5	13	0	1	1	4	0	1	0	25
Liberty	0	0	0	4	4	1	1	2	1	0	0	1	14
McIntosh	0	0	0	22	2	2	2	1	0	0	0	0	29
Glynn	0	0	0	21	9	1	5	5	2	0	0	0	43
Camden	0	0	0	39	14	4	3	6	3	3	0	0	72
TOTAL	0	0	0	91	42	8	12	15	10	3	1	1	183

Table 11(a). Marine turtle strandings reported from SOUTH CAROLINA, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	9	14	13	9	3	5	2	5	0	60
C. mydas	0	0	0	0	0	0	0	1	0	0	0	0	1
D. coriacea	0	0	0	1	9	1	0	0	0	0	0	0	11
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	1	0	0	1	1	1	1	0	0	5
Unidentified	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	0	0	0	11	23	14	10	6	6	3	5	0	78

Table 11(b). Marine turtle strandings reported from SOUTH CAROLINA, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Horry	0	0	0	4	1	1	0	1	0	0	0	0	7
Georgetown	0	0	0	2	3	0	0	1	0	1	5	0	12
Charleston	0	0	0	3	14	11	6	2	5	1	0	0	42
Colleton	0	0	0	0	1	0	1	0	0	0	0	0	2
Beaufort	0	0	0	2	4	2	3	2	1	1	0	0	15
TOTAL	0	0	0	11	23	14	10	6	6	3	5	0	78

Table 12(a). Marine turtle strandings reported from NORTH CAROLINA, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	6	1	0	10	22	22	8	6	5	13	6	8	107
C. mydas	1	0	1	0	1	0	0	0	0	0	0	1	4
D. coriacea	0	0	0	0	4	1	0	0	0	0	1	0	6
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	4	0	0	0	1	0	0	1	0	0	0	0	6
Unidentified	1	0	0	0	2	1	1	0	1	0	0	0	6
TOTAL	12	1	1	10	30	24	9	7	6	13	7	9	129

Table 12(b). Marine turtle strandings reported from NORTH CAROLINA, 1 January - 31 December 1991 by county and month of occurrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Currituck	1	0	0	0	0	1	0	0	0	2	0	0	4
Dare	8	0	0	1	5	6	2	3	2	6	4	5	42
Hyde	1	0	0	0	0	0	1	0	0	2	0	3	7
Carteret	2	1	1	6	10	11	0	2	2	3	1	1	40
Onslow	0	0	0	2	11	4	2	1	0	0	1	0	21
Pender	0	0	0	1	1	0	0	0	0	0	0	0	2
New Hanover	0	0	0	0	2	0	0	0	0	0	0	0	2
Brunswick	0	0	0	0	1	2	4	1	2	0	1	0	11
TOTAL	12	1	1	10	30	24	9	7	6	13	7	9	129

Table 13(a). Marine turtle strandings reported from VIRGINIA, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	1	0	35	31	8	5	4	5	1	1	91
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	1	4	0	0	0	0	0	0	5
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	2	1	0	1	0	2	0	0	6
Unidentified	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	0	0	1	0	38	36	9	6	4	7	1	1	103

Table 13(b). Marine turtle strandings reported from VIRGINIA, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Accomack	0	0	0	0	0	1	0	0	0	1	0	0	2
Northampton	0	0	0	0	5	2	3	1	0	0	0	0	11
Northumberland	0	0	0	0	0	1	0	0	0	0	0	0	1
Lancaster	0	0	0	0	0	0	1	0	0	0	0	0	1
Middlesex	0	0	0	0	0	1	0	0	0	0	0	0	1
Mathews	0	0	0	0	4	1	0	0	1	0	1	0	7
Gloucester	0	0	0	0	5	0	0	1	0	0	0	0	6
York	0	0	0	0	3	3	0	1	0	0	0	0	7
Hampton	0	0	0	0	8	7	1	1	0	0	0	0	17
Newport News	0	0	0	0	0	2	0	0	0	0	0	0	2
Norfolk	0	0	0	0	2	4	0	0	0	0	0	0	6
Virginia Beach	0	0	1	0	11	14	4	2	3	6	0	1	42
TOTAL	0	0	1	0	38	36	9	6	4	7	1	1	103

Table 14(a). Marine turtle strandings reported from MARYLAND, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	1	3	0	1	4	3	1	0	13
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	0	0	0	0	0	0
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	1	0	0	0	0	0	0	0	1
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	2	3	0	1	4	3	1	0	14

Table 14(b). Marine turtle strandings reported from MARYLAND, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Calvert	0	0	0	0	1	2	0	1	0	0	0	0	4
St. Marys	0	0	0	0	1	0	0	0	0	0	0	0	1
Worcester	0	0	0	0	0	1	0	0	4	3	1	0	9
TOTAL	0	0	0	0	2	3	0	1	4	3	1	0	14

Table 15(a). Marine turtle strandings reported from NEW JERSEY, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	0	2	10	5	4	6	0	0	27
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	2	1	3	5	0	0	11
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	0	2	1	0	0	0	0	3
Unidentified	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	0	0	0	0	0	2	14	8	7	11	0	0	42

Table 15(b). Marine turtle strandings reported from NEW JERSEY, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Middlesex	0	0	0	0	0	0	0	0	1	0	0	0	1
Monmouth	0	0	0	0	0	0	8	3	1	3	0	0	15
Ocean	0	0	0	0	0	0	2	2	0	2	0	0	6
Atlantic	0	0	0	0	0	2	2	0	0	0	0	0	4
Cape May	0	0	0	0	0	0	2	3	4	6	0	0	15
Cumberland	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	0	0	0	0	2	14	8	7	11	0	0	42

Table 16(a). Marine turtle strandings reported from NEW YORK, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	1	0	0	0	1	5	3	2	0	0	4	16
C. mydas	0	0	0	0	0	0	0	0	0	0	0	1	1
D. coriacea	0	0	0	0	0	1	1	6	6	8	2	0	24
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	1	0	0	0	0	0	1	0	0	0	1	7	10
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	0	0	0	2	7	9	8	8	3	12	51

Table 16(b). Marine turtle strandings reported from NEW YORK, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Suffolk	1	1	0	0	0	0	3	4	5	6	2	12	34
Kings	0	0	0	0	0	0	0	3	0	0	0	0	3
Nassau	0	0	0	0	0	0	1	1	1	2	1	0	6
Queens	0	0	0	0	0	2	0	1	1	0	0	0	4
Richmond	0	0	0	0	0	0	3	0	1	0	0	0	4
TOTAL	1	1	0	0	0	2	7	9	8	8	3	12	51

Table 17(a). Marine turtle strandings reported from CONNECTICUT, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	0	0	0	0	0	0	0	0	0
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	0	0	1	0	0	1
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	1	0	0	1

Table 17(b). Marine turtle strandings reported from CONNECTICUT, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
New London	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	0	0	0	0	0	0	0	0	0	1	0	0	1

Table 18(a). Marine turtle strandings reported from RHODE ISLAND, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	0	0	1	0	0	0	0	0	1
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	4	6	1	0	0	11
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	1	4	6	1	0	0	12

Table 18(b). Marine turtle strandings reported from RHODE ISLAND, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Newport	0	0	0	0	0	0	0	2	1	0	0	0	3
Washington	0	0	0	0	0	0	1	2	5	1	0	0	9
TOTAL	0	0	0	0	0	0	1	4	6	1	0	0	12

Table 19(a). Marine turtle strandings reported from MASSACHUSETTS, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	1	0	0	0	0	0	1	0	0	0	1	3	6
C. mydas	0	0	0	0	0	0	0	0	0	0	0	1	1
D. coriacea	0	0	0	0	0	0	3	0	2	0	0	0	5
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	1	0	0	0	0	0	0	0	0	0	3	7	11
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	0	0	0	0	4	0	2	0	4	11	23

Table 19(b). Marine turtle strandings reported from MASSACHUSETTS, 1 January - 31 December 1991 by county and month of occurrrence. All species are combined. Only counties from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Barnstable	2	0	0	0	0	0	2	0	1	0	4	11	20
Dukes	0	0	0	0	0	0	2	0	1	0	0	0	3
TOTAL	2	0	0	0	0	0	4	0	2	0	4	11	23

Table 20. Marine turtle strandings reported from PUERTO RICO, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	0	0	0	0	0	0	0	0	0
C. mydas	2	0	1	5	0	1	3	1	0	0	1	4	18
D. coriacea	0	0	0	0	0	1	0	0	0	0	0	0	1
E. imbricata	0	0	0	0	1	0	0	3	0	0	1	1	6
L. kempi	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	0	5	1	0	0	0	6
TOTAL	2	0	1	5	1	2	3	9	1	0	2	5	31

Table 21. Marine turtle strandings reported from U.S. VIRGIN ISLANDS, 1 January - 31 December 1991 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	0	0	0	0	0	0	0	0	0	0
C. mydas	0	0	1	0	3	1	1	1	0	0	0	0	7
D. coriacea	0	0	0	0	0	0	0	0	0	0	0	0	0
E. imbricata	0	0	0	0	0	0	2	0	0	0	0	0	2
L. kempi	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	3	1	3	1	0	0	0	0	9

Table 22. Marine turtle strandings reported from GULF REGION, 1 January - 31 December 1991 by species and month of occurrence.

STATISTICAL ZONE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ZONE 24	0	2	1	0	2	0	0	0	4	2	0	0	11
ZONE 25	1	1	1	0	0	0	0	0	0	0	0	0	3
ZONE 1	2	4	6	4	1	1	9	8	6	2	2	4	49
ZONE 2	0	0	0	0	0	0	0	0	0	0	0	0	0
ZONE 3	0	1	1	0	1	0	1	0	2	0	0	0	6
ZONE 4	5	3	7	5	2	4	3	0	3	0	1	1	34
ZONE 5	4	1	6	3	2	3	9	7	4	3	1	1	44
ZONE 6	0	1	1	1	0	1	0	2	0	0	1	0	7
ZONE 7	0	0	0	4	0	0	1	0	0	0	0	0	5
ZONE 8	0	0	1	2	3	6	3	1	0	0	0	0	16
ZONE 9	1	0	0	1	2	2	0	1	0	0	0	1	8
ZONE 10	0	0	2	1	1	2	3	2	0	2	0	0	13
ZONE 11	0	1	0	1	2	11	5	2	2	0	0	0	24
ZONE 12	0	0	0	1	0	0	0	1	0	0	0	0	2
ZONE 13	0	0	0	0	0	0	0	0	0	0	0	0	0
ZONE 14	0	0	0	0	0	1	0	0	0	0	0	0	1
ZONE 15	0	0	0	0	0	0	0	0	0	0	0	0	0
ZONE 16	0	0	0	0	0	0	0	0	0	0	0	0	0
ZONE 17	0	0	1	2	3	1	0	6	2	4	1	0	20
ZONE 18	0	1	3	2	2	2	17	15	5	7	2	2	58
ZONE 19	0	0	0	2	3	4	7	13	9	3	0	0	41
ZONE 20	2	0	6	4	3	5	7	2	6	3	5	3	46
ZONE 21	1	0	10	4	0	0	1	2	0	1	0	6	25
TOTAL	16	15	46	37	27	43	66	62	43	27	13	18	413

Table 23. Marine turtle strandings reported from SOUTHEAST REGION, 1 January - 31 December 1991 by species and month of occurrence.

STATISTICAL ZONE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ZONE 24	0	0	0	0	0	0	0	0	1	0	0	0	1
ZONE 25	4	0	5	3	4	0	5	5	3	4	0	5	38
ZONE 26	7	6	5	10	17	9	7	4	2	8	2	7	84
ZONE 27	35	19	17	18	15	14	11	11	8	9	7	9	173
ZONE 28	6	3	2	17	13	16	4	6	5	5	5	6	88
ZONE 29	8	10	6	9	4	0	4	0	5	7	3	7	63
ZONE 30	6	4	3	75	38	19	11	14	12	3	6	2	193
ZONE 31	0	0	0	51	27	4	9	9	7	0	1	1	109
ZONE 32	0	0	0	5	20	9	7	4	6	2	0	0	53
ZONE 33	0	0	0	6	5	7	7	3	1	1	6	0	36
ZONE 34	2	0	1	9	24	15	2	2	1	3	2	1	62
ZONE 35	9	1	0	1	4	4	2	3	2	5	2	8	41
ZONE 36	1	0	0	0	1	3	1	1	2	5	2	0	16
TOTAL	78	43	39	204	172	100	70	62	55	52	36	46	957

Table 24. Marine turtle strandings reported from NORTHEAST REGION, 1 January - 31 December 1991 by species and month of occurrence.

STATISTICAL ZONE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Zone 36	0	0	1	0	13	20	4	2	3	6	0	1	50
ZONE 37	0	0	0	0	26	16	5	4	1	1	1	0	54
ZONE 38	0	0	0	0	1	3	2	2	6	8	1	0	23
ZONE 39	0	0	0	0	0	2	4	4	3	2	0	0	15
ZONE 40	0	0	0	0	0	2	15	12	9	11	3	3	55
ZONE 41	3	1	0	0	0	0	5	4	9	3	4	18	47
ZONE 42	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTAL	3	1	1	0	40	43	35	28	31	31	9	24	246

Table 25. Marine turtle strandings by species and month of occurence for Zones 4 and 5. Sampling was conducted systematically throughout 1991.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	8	4	9	4	3	7	11	4	5	2	1	0	58
C. mydas	0	0	0	1	0	0	0	0	0	0	1	1	3
D. coriacea	0	0	0	0	0	0	0	0	0	0	0	0	0
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	1	0	3	1	1	0	0	3	1	1	0	0	11
Unidentified	0	0	1	2	0	0	1	0	1	0	0	1	6
TOTAL	9	4	13	8	4	7	12	7	7	3	2	2	78

Table 26. Marine turtle strandings by species and month of occurence for Zones 17 thru 21. Sampling was conducted systematically throughout 1991.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	2	1	10	6	3	5	9	16	6	8	2	7	75
C. mydas	0	0	2	2	1	0	2	2	1	0	2	0	12
D. coriacea	0	0	0	3	1	1	0	0	0	0	0	0	5
E. imbricata	0	0	0	0	1	0	0	2	2	1	0	0	6
L. kempi	1	0	8	3	5	6	16	17	9	9	4	4	82
Unidentified	0	0	0	0	0	0	5	1	4	0	0	0	10
TOTAL	3	1	20	14	11	12	32	38	22	18	8	11	190

Table 27. Marine turtle strandings by species and month of occurence for Zones 28 thru 30. Sampling was conducted systematically throughout 1991.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	11	9	8	82	49	31	15	18	20	11	8	9	271
C. mydas	1	3	0	4	3	2	2	0	0	1	3	2	21
D. coriacea	2	4	3	0	0	0	0	0	0	1	3	4	17
E. imbricata	0	0	0	0	0	1	0	0	0	0	0	0	1
L. kempi	3	0	0	11	3	0	2	1	1	2	0	0	23
Unidentified	3	1	0	4	0	1	0	1	1	0	0	0	11
TOTAL	20	17	11	101	55	35	19	20	22	15	14	15	344

Table 28. Marine turtle strandings by species and month of occurence for Zone 31. Sampling was conducted systematically throughout 1991.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	17	14	3	7	8	7	0	0	0	56
C. mydas	0	0	0	0	0	0	0	0	0	0	0	1	1
D. coriacea	0	0	0	29	7	0	0	0	0	0	0	0	36
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	4	5	1	2	1	0	0	1	0	14
Unidentified	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	0	0	51	27	4	9	9	7	0	1	1	109

Table 29. Marine turtle strandings by species and month of occurence for Zone 32. Sampling was conducted systematically throughout 1991.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	0	0	4	12	9	6	2	5	1	0	0	39
C. mydas	0	0	0	0	0	0	0	1	0	0	0	0	1
D. coriacea	0	0	0	0	8	0	0	0	0	0	0	0	8
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	1	0	0	1	1	1	1	0	0	5
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	5	20	9	7	4	6	2	0	0	53

Table 30. Strandings of headstarted turtles reported through the STSSN, 1 January - 31 December 1991.

Species: *Lepidochelys kempi*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Texas	0	0	0	1	4	3	1	4	0	0	1	1	15
Louisiana	0	0	0	1	1	0	1	1	0	1	0	0	5
Alabama	0	0	0	0	1	0	0	0	0	0	0	0	1
Florida (Gulf)	0	0	1	0	0	0	0	0	0	1	2	0	4
TOTAL	0	0	1	2	6	3	2	5	0	2	3	1	25

Species: *Chelonia mydas*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Florida (Gulf)	0	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL	0	0	0	0	0	0	0	0	0	0	1	0	1

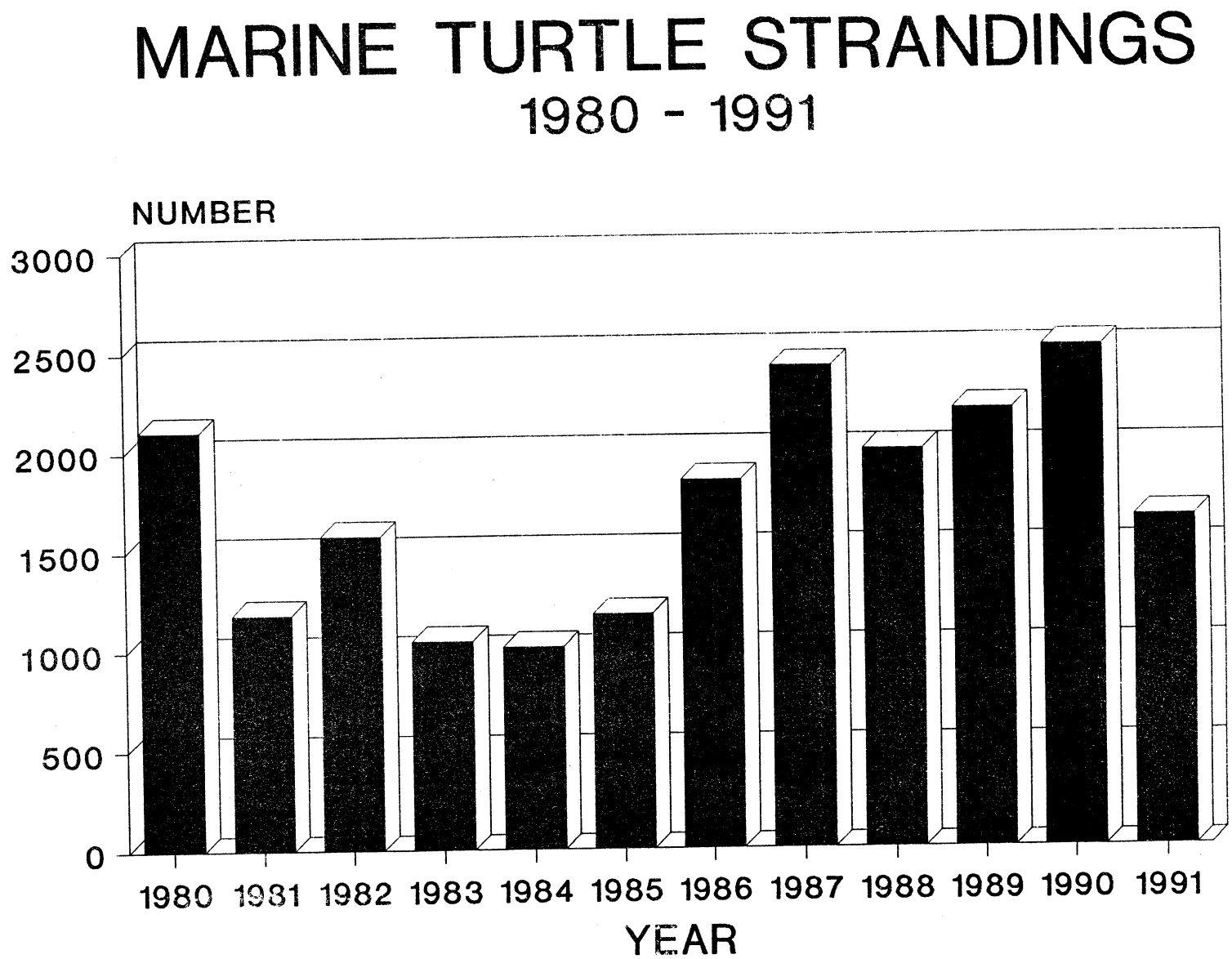


Figure 1. Marine turtle strandings reported annually from the U.S. Atlantic and Gulf of Mexico, 1980 - 1991. All species are combined.

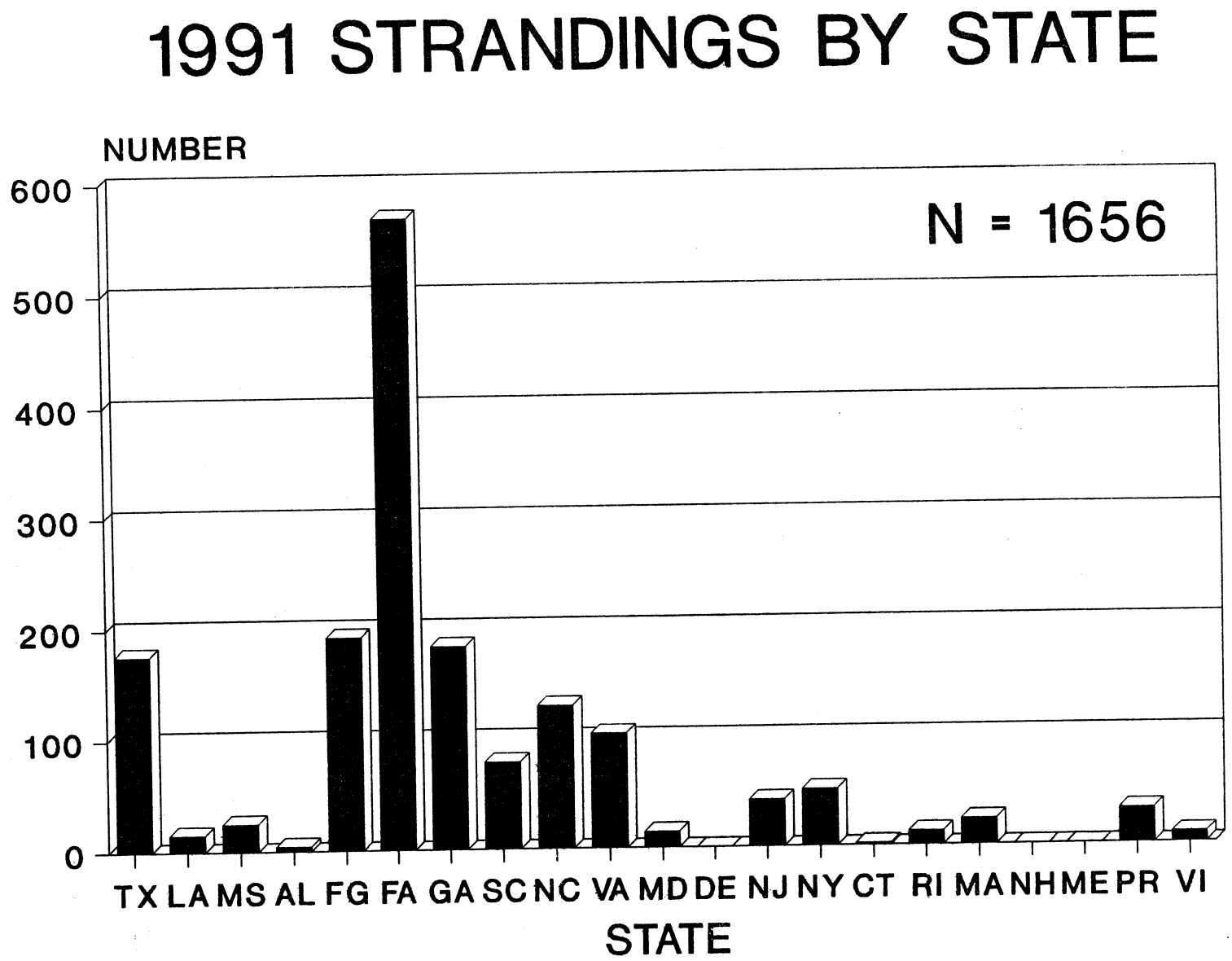


Figure 2. Marine turtle strandings reported from the U.S. Atlantic and Gulf of Mexico, 1991. FG = Florida (Gulf), FA = Florida (Atlantic).

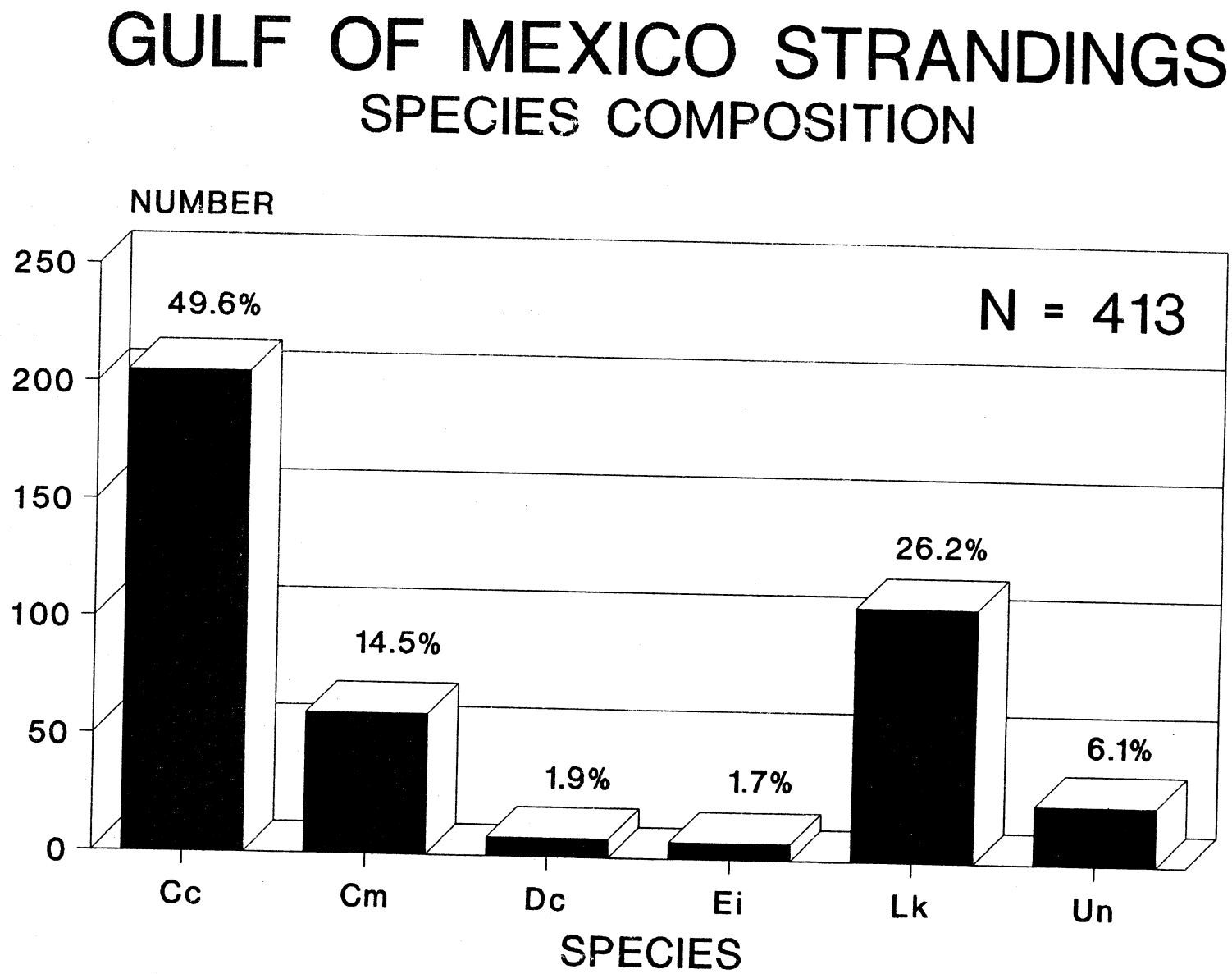


Figure 3. Species composition of stranded marine turtles reported from the Gulf of Mexico, 1991.

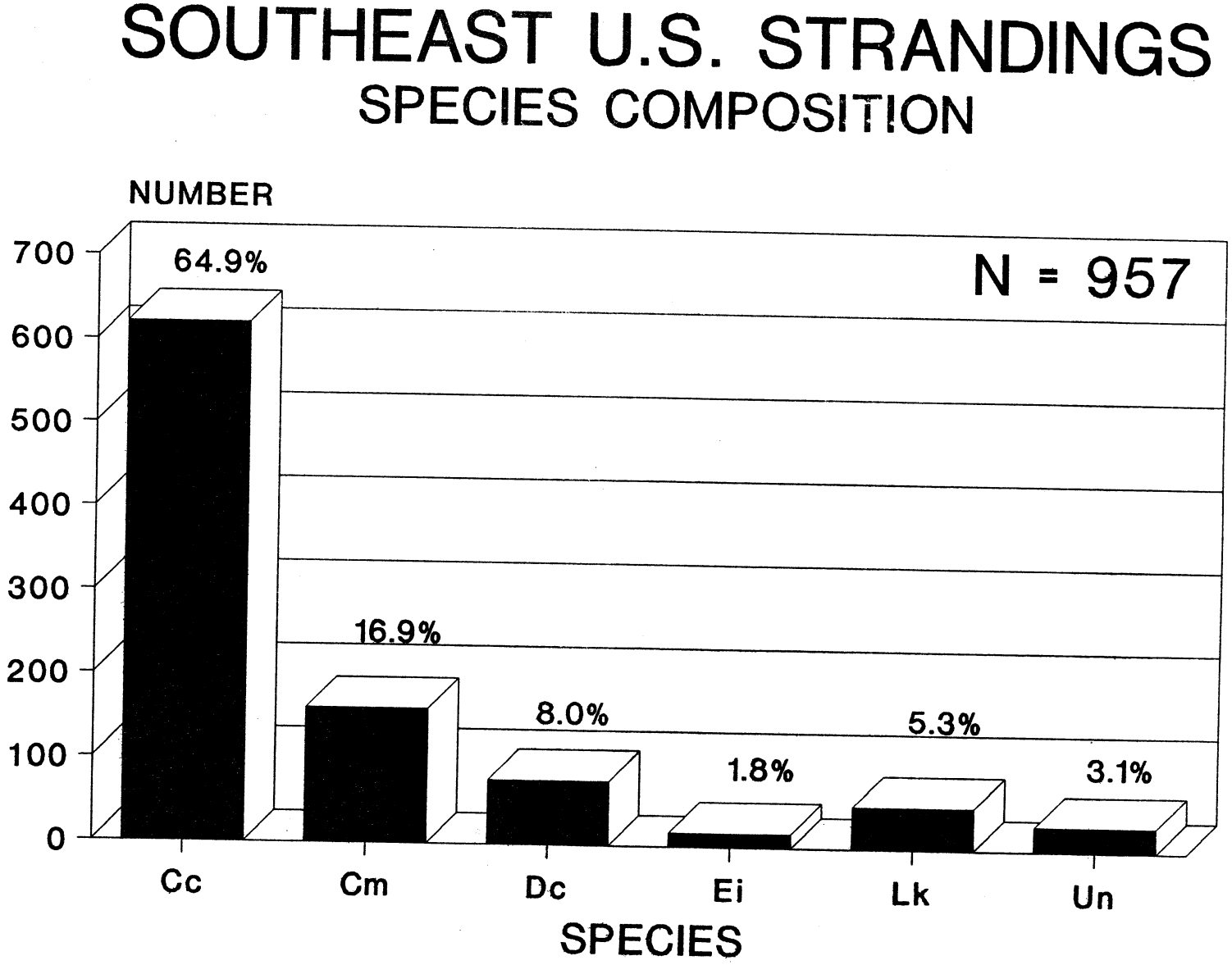


Figure 4. Species composition of stranded marine turtles reported from the southeast U.S. Atlantic, 1991.

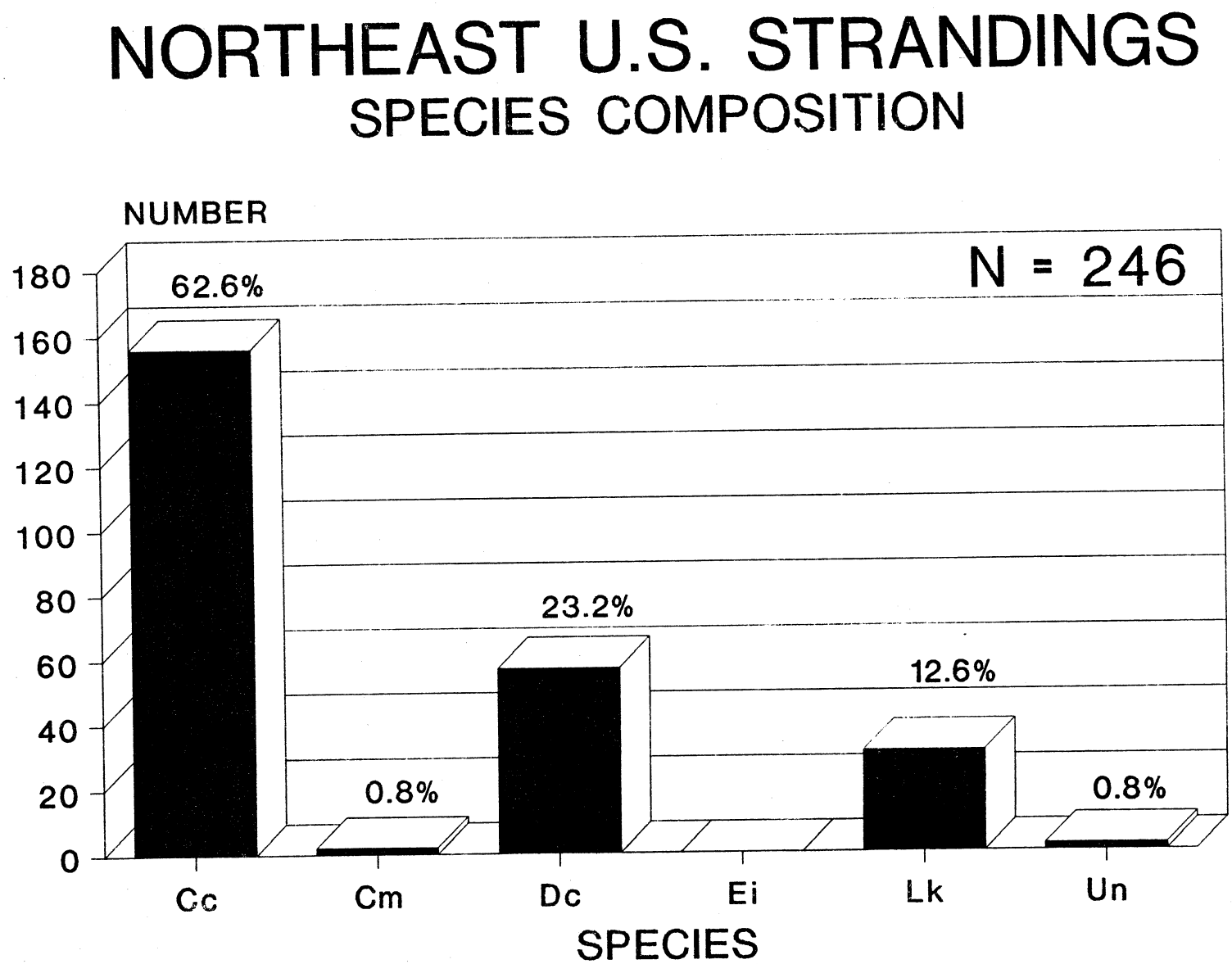


Figure 5. Species composition of stranded marine turtles reported from the northeast U.S. Atlantic, 1991.

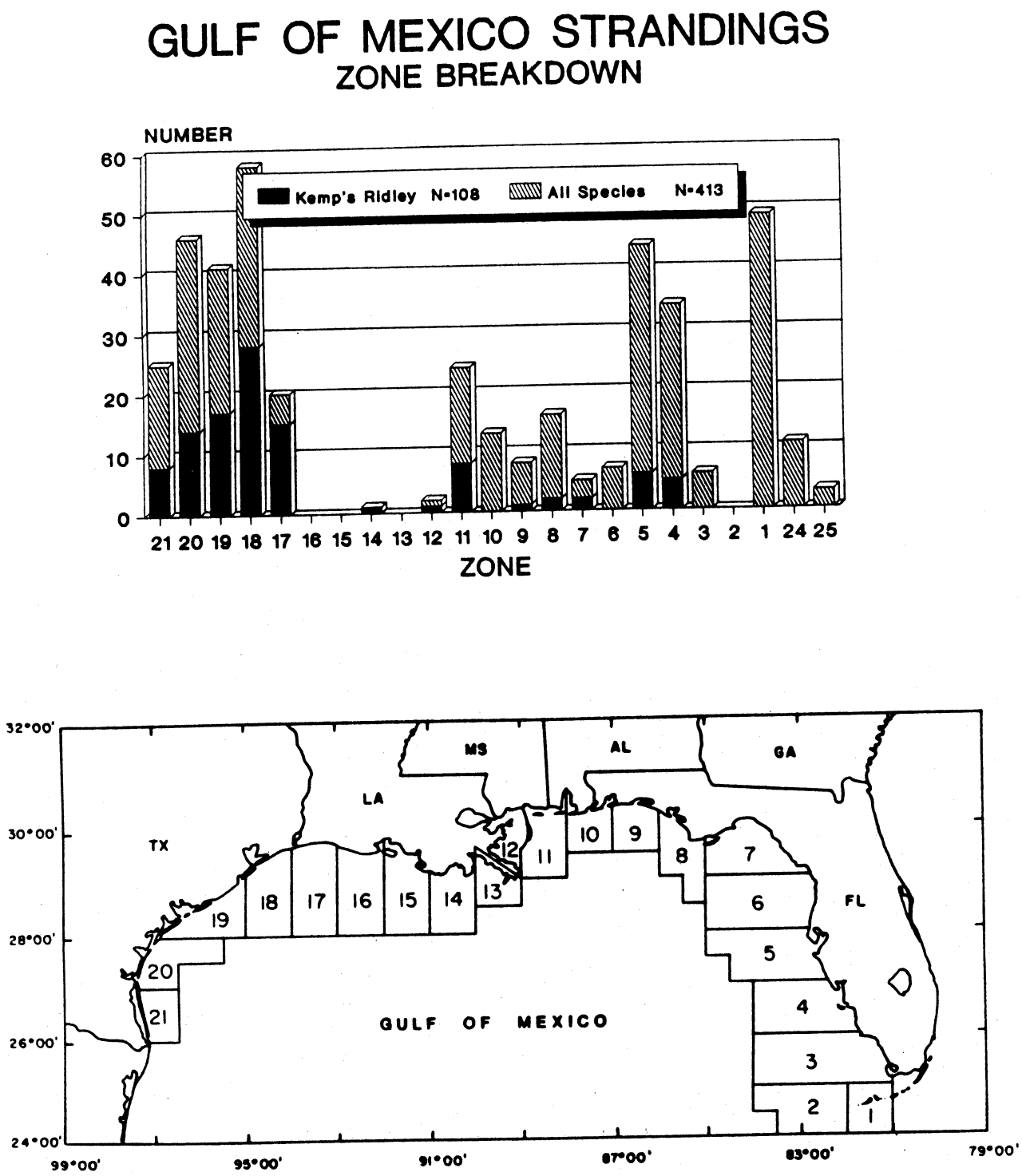
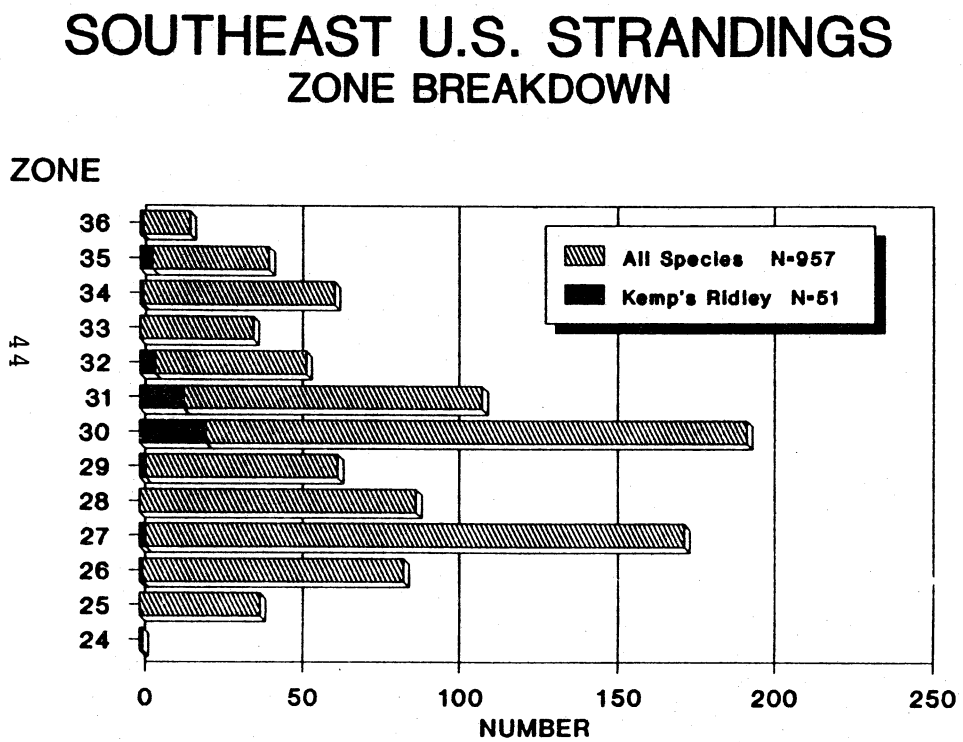


Figure 6. Marine turtle strandings reported from the Gulf of Mexico by statistical zone, 1991.



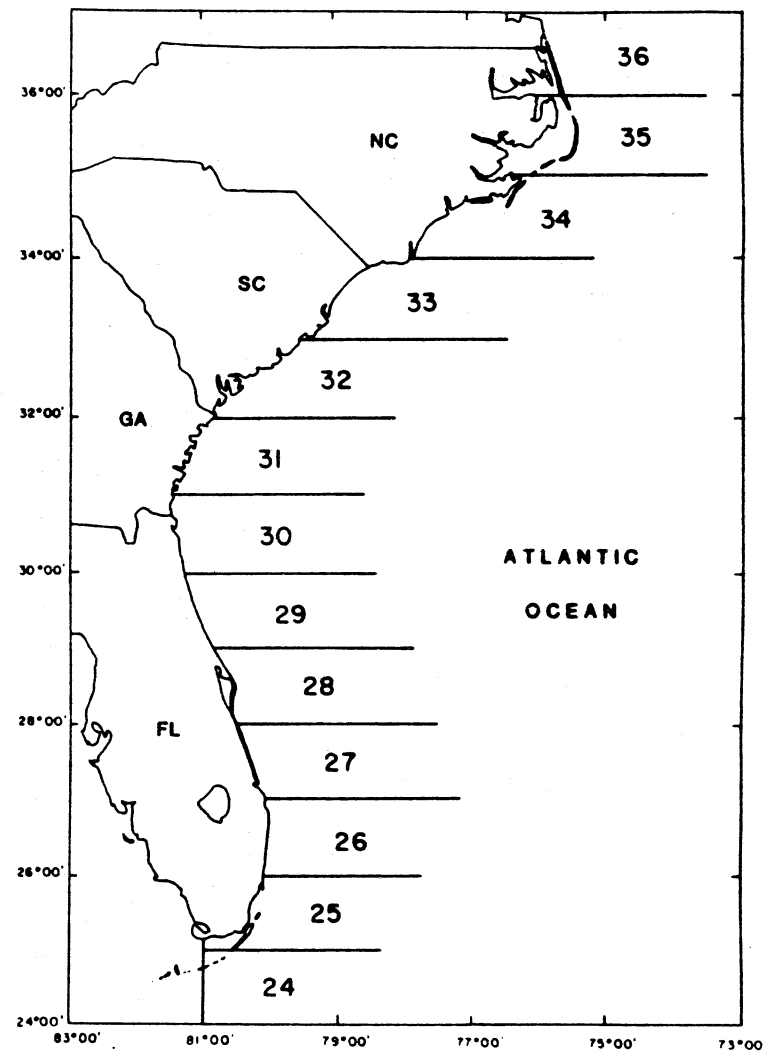


Figure 7. Marine turtle strandings reported from the southeast U.S. Atlantic by statistical zone, 1991.

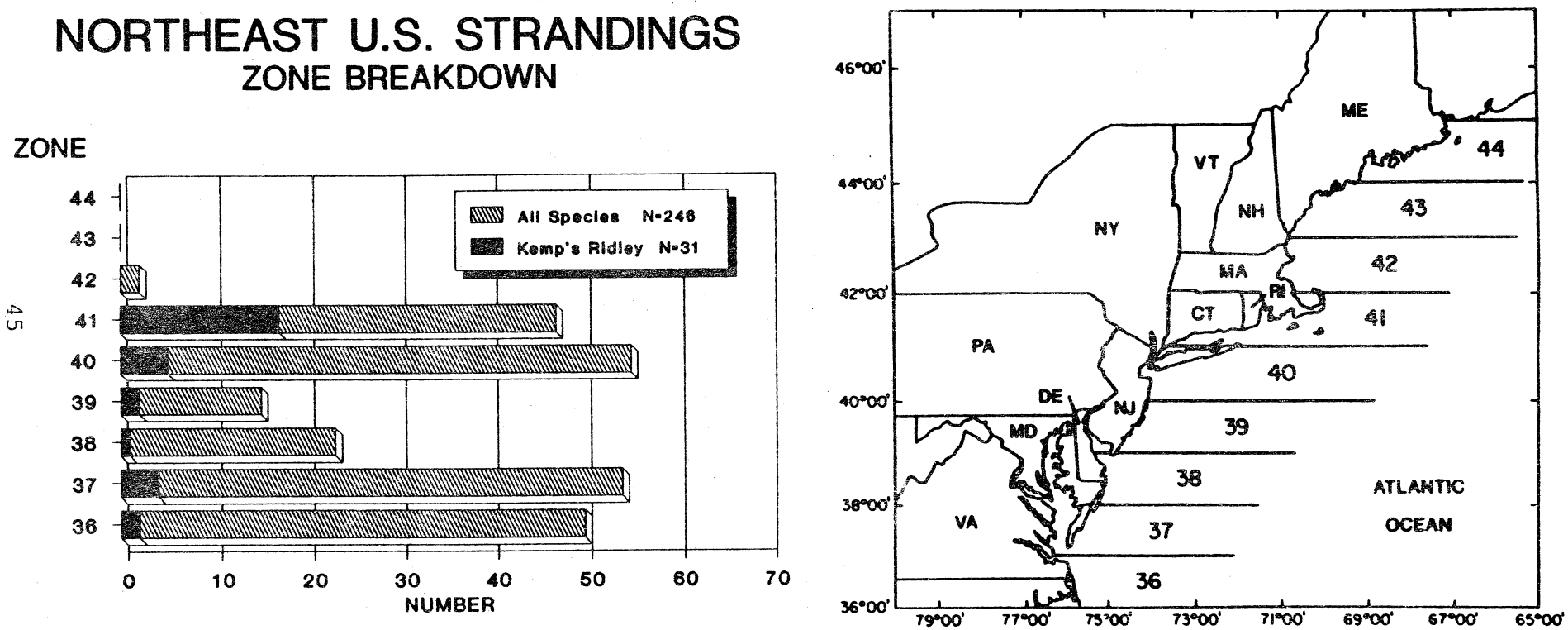


Figure 8. Marine turtle strandings reported from the northeast U.S. Atlantic by statistical zone, 1991.

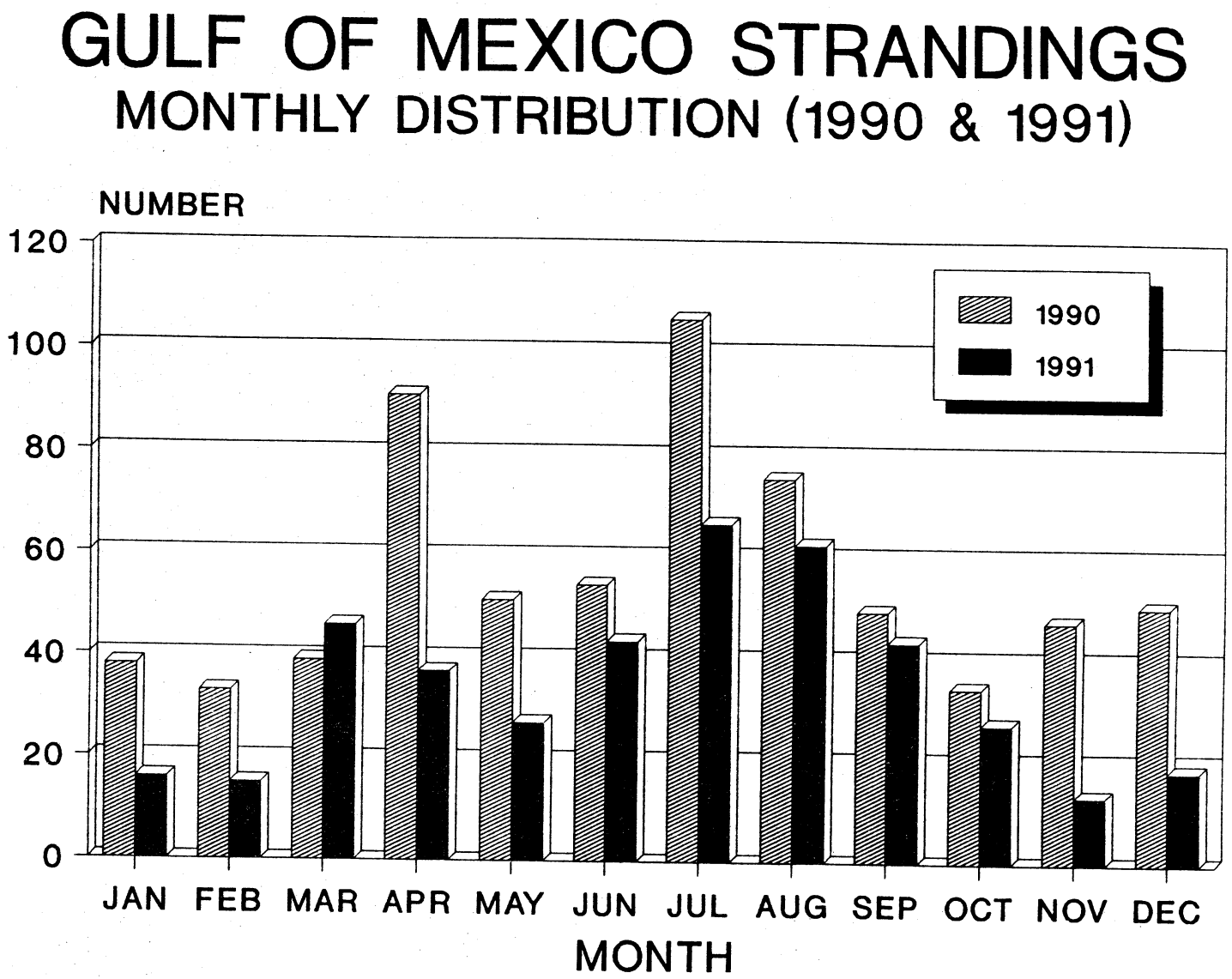


Figure 9. Monthly distribution of marine turtle strandings reported from the Gulf of Mexico, 1990 and 1991. All species are combined.

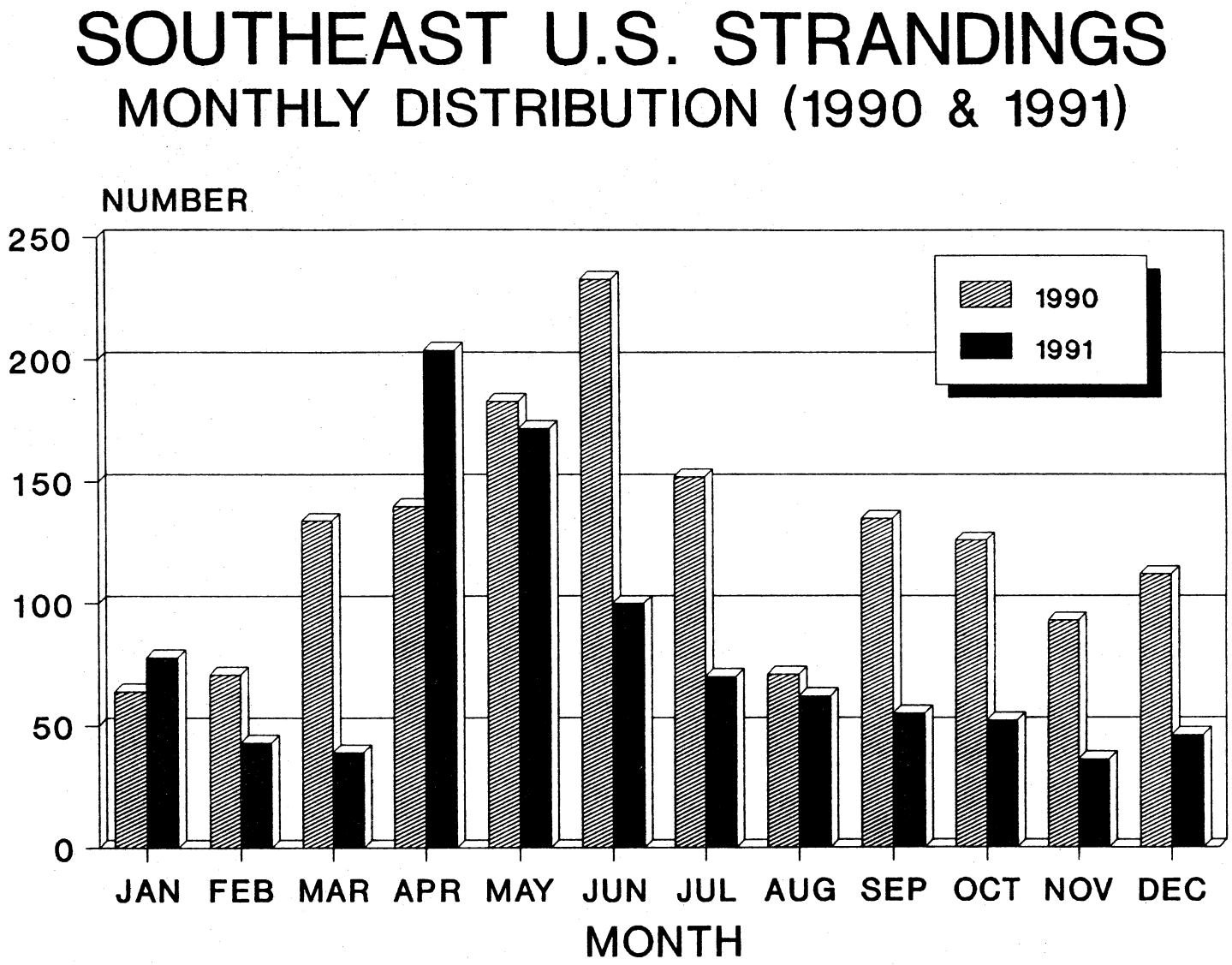


Figure 10. Monthly distribution of marine turtle strandings reported from the southeast U.S. Atlantic, 1990 and 1991. All species are combined.

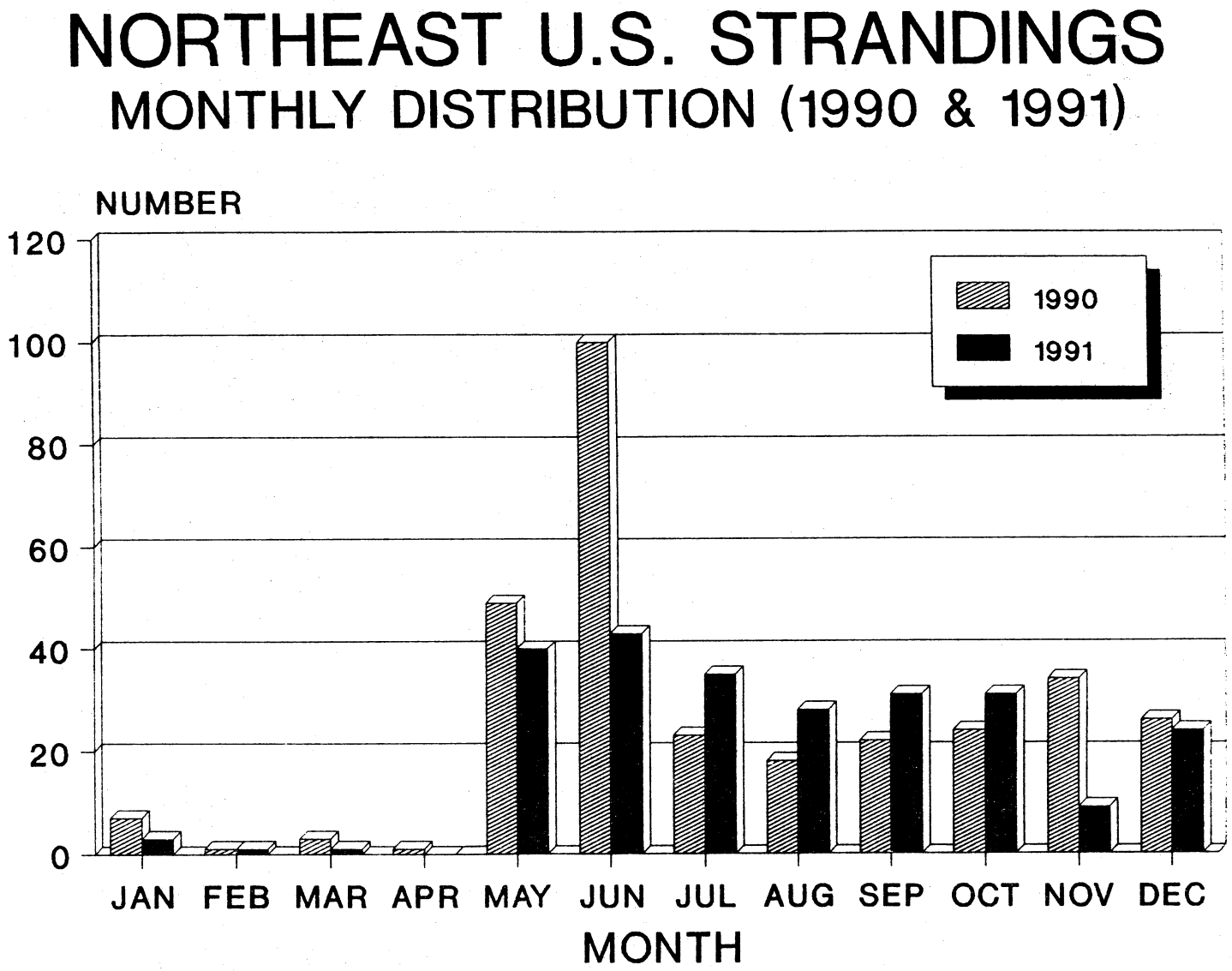


Figure 11. Monthly distribution of marine turtle strandings reported from the northeast U.S. Atlantic, 1990 and 1991. All species are combined.