1987 Annual Report of the Sea Turtle Stranding and Salvage Network: Atlantic and Gulf Coasts of the United States

January - December 1987

Barbara A. Schroeder

and

Amy A. Warner

NOAA/NMFS
Southeast Fisheries Center
Miami Laboratory
75 Virginia Beach Drive
Miami, FL 33149

Coastal Resources Division
Contribution Number CRD-87/88-28

July 1988

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 1987. The numbers presented are considered minimum stranding figures, as they are reported strandings only, not all stranding events. Effort expended in the collection of stranding data during 1987 varied both geographically and temporally. Coverage ranged from systematic weekly (or more frequent) sampling to no sampling at all in some coastal areas.

A total of 2393 stranded marine turtles were reported during 1987. Of these, 2373 were "wild" strandings and the remaining 20 were known headstarted turtles. Headstarted turtles are hatched and raised in captivity for approximately six to twelve months before being tagged and released. Strandings of headstarted turtles are documented in Table 23, 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 from the primary report 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).

Sixteen states reported strandings during the twelve month period. They are: Texas, Louisiana, Mississippi, Alabama, Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Delaware, New Jersey, New York, Connecticut, Rhode Island, and Massachusetts. There were no stranding records received from Maine or New Hampshire. 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 during the period 1984 - 1987. The 1987 stranding total of 2373 turtles is a 28% increase over the 1986 stranding total and a 103% increase over 1985 reported strandings. The 1987 total accounts for 19.2% of all reported strandings over the eight year period 1980 - 1987. This is the highest annual stranding total recorded since the formal establishment of the network in 1980.

State and Regional Distribution

Reported strandings during 1987 are summarized by state in Table 1 and Figure 2. Florida reported the highest number of strandings during 1987, accounting for 35% of the total (9% Florida-Gulf, 26% Florida-Atlantic). Georgia accounted for 14% of the total reported strandings and South Carolina reported the third highest frequency of strandings, accounting for 11% of the total.

Regionally, 25.0% of the strandings were reported from the Gulf of Mexico (TX,LA,MS,AL,FL-Gulf), 59.6% from the southeast U.S. Atlantic (FL-Atlantic,GA,SC,NC), 14.6% from the northeast U.S. Atlantic (VA,MD,DE,NJ,NY,CT,RI,MA,NH,ME), and 0.8% from the U.S. Caribbean (PR). Stranding records are summarized on a detailed state by state basis in Tables 4 - 22. These tables summarize strandings by species and month (all counties combined) and by county and month (all species combined).

Network-wide, 83.7% of all reports were classified as offshore strandings and 16.3% 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 1987 (excluding the Caribbean) was as follows:

	GULF	SOUTHEAST U.S.	NORTHEAST U.S.
INSHORE	83 (14.0%)	95 (6.7%)	205 (59.1%)
OFFSHORE	510 (86.0%)	1319 (93.3%)	142 (40.9%)

Effort expended in data collection is significantly lower in inshore areas (bays, sounds, etc.) of the Gulf of Mexico and southeast U.S. Atlantic as compared to offshore effort (ocean

beaches). The distribution of reported strandings may not reflect the true inshore/offshore distribution of total mortality in the Gulf and southeast U.S. regions.

Species Composition

Throughout the network region, loggerheads (*Caretta caretta*) were the most frequently stranded species making up 73.3% of the total. Kemp's ridleys (*Lepidochelys kempi*) were the second most frequently reported species at 9.1%; green turtle (*Chelonia mydas*) strandings comprised 6.6% of the total; leatherbacks (*Dermochelys coriacea*) accounted for 5.7% of all reports; and hawksbills (*Eretmochelys imbricata*) were reported least frequently making up 1.2% of the total. Turtles not identified to species accounted for 4.1% of all reports.

Within each region (excepting the Caribbean), loggerheads were the most frequently stranded species making up 64%, 83%, and 56% of the region total 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 18% of the total, followed by green turtles comprising 10%. In the southeast U.S. Atlantic, green turtles were the second most frequently stranded species accounting for 6% of all reports. In the northeast U.S. Atlantic, leatherback and Kemp's ridley strandings accounted for 21% and 19% of the region total, respectively.

As compared to 1986, leatherback, loggerhead, and green turtle strandings increased 123%, 43%, and 18% respectively. Leatherback strandings increased in the southeast and northeast U.S. Atlantic and decreased in the Gulf of Mexico. Strandings of leatherbacks in Florida(Atlantic) and Georgia increased from 7 in 1986 to 47 in 1987. In New Jersey and New York, leatherback strandings rose from a 1986 total of 14 to 57 in 1987. Loggerhead standings increased over 1986 in all regions and remained at approximately equal levels only in the western Gulf of Mexico (TX and LA). The 1987 increase in green turtle strandings occurred principally in the Gulf of Mexico rising from 31 in 1986 to 62 in 1987.

Strandings of hawksbills and Kemp's ridleys decreased 37% and 36%, respectively, over 1986 for all regions combined. The decrease in Kemp's ridley strandings occurred only in the western Gulf of Mexico, where ridley strandings dropped from 239 in 1986 to 79 in 1987. In the remaining regions, Kemp's ridley strandings increased over 1986 levels.

Distribution By Statistical Zone

Strandings are summarized by statistical zones in order to evaluate 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 utilized for defining areas where Turtle Excluder Devices (TEDs) are required. The actual coastal area encompassed by each zone is not necessarily equivalent.

There are 21 zones in the U.S. Gulf of Mexico (Figure 6), beginning with Zone 1 in the Florida Keys and numbered consecutively through the Gulf to the Mexico border. Total strandings by zone for the Gulf of Mexico are depicted in Figure 6. In the Gulf of Mexico, strandings were approximately equally divided between the eastern Gulf (zones 1-12) and the western Gulf (zones 13-21). Seventy-seven percent (77%) of all Gulf Kemp's ridley strandings were reported from the western Gulf. Strandings of Kemp's ridleys decreased substantially in zones 17 and 18 from 187 in 1986 to 29 in 1987 but remained relatively consistent with 1986 levels in all other Gulf zones.

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). Zone 36 is a partial zone, ending at the North Carolina/Virginia border. Figure 7 depicts total southeast U.S. strandings by statistical zone. Peak strandings were again reported from zone 30 off the northeast Florida coast and southern tip of Georgia, 22% of all southeast U.S. strandings occurred in this zone. Zones 31 and 32, encompassing Georgia and the southern half of South Carolina accounted for the second and third highest frequencies of reported strandings, each comprising 17% of the total. There were no Kemp's ridley strandings reported south of Cape Canaveral, FL (zone 28).

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 and ending at the Canadian border (Figure 8). Zones 40 and 41 accounted for 48% of the total northeast U.S. strandings and primarily represent strandings from Long Island Sound and Cape Cod Bay. Strandings in zones 36 and 37 represent 32% of the total northeast U.S. strandings and primarily reflect turtles stranding in Chesapeake Bay and along the Virginia barrier beaches. Eighty-three percent (83%) of all northeast Kemp's ridley strandings were reported from zones 40 and 41.

Temporal Distribution of Strandings

Table 2 summarizes 1986 strandings by state and month for all species combined. Table 3 summarizes strandings by species and month of occurrence for all states combined. Figures 9 - 11 depict monthly stranding frequencies for 1986 and 1987 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 during all months, with peaks during the period April - June. Stranding levels were lowest during the months of January and February. Overall, monthly stranding frequencies in the Gulf of Mexico exhibited similar trends during 1986. In the southeast U.S. Atlantic (Figure 10), strandings began increasing significantly in April, peaked in June, and gradually decreased through mid-fall. Monthly stranding frequencies in the southeast U.S. during 1987 followed the same pattern as 1986, excepting the increase in strandings reported during the summer months.

In the northeast U.S. Atlantic (Figure 11), 97% of all strandings were reported during the last six months of the year with peaks during June and August. Monthly stranding patterns in the northeast U.S. Atlantic during 1986 and 1987 were consistent (i.e. very low) during the period January - May. Strandings for the remainder of 1987 showed considerable increases over 1986, excepting July and December. June strandings are almost entirely comprised of Virginia strandings (89%) while the August peak is comprised of turtles stranding in New York (34.7%), New Jersey (26.4%), and Virginia (26.4%). New Jersey strandings comprised half of all September strandings and 41% of all October strandings in the region.

Condition of Stranded Turtles

Of 2373 stranded turtles, 91.4% were dead, 6.4% were alive, and the conditions of the remaining 2.2% were not recorded on the initial stranding report. Of the 151 live turtles, 31% were released, 27% subsequently died, and the fates of the remaining 64 turtles (42%) are unknown. A total of 233 turtles (9.8%) were reported as necropsied.

The conditions of the 2169 turtles stranded <u>dead</u> were reported as follows:

Fresh Dead	562 (23.7%)
Moderately Decomposed	860 (36.2%)
Severely Decomposed	597 (25.2%)
Dried Carcass	66 (2.8%)
Skeleton, Bones Only	84 (3.5%)

Carcass Anomalies

Observations (not necessarily causes of death) recorded on stranding reports specific to the individual turtle are coded as a permanent part of each stranding record. Selected carcass anomalies are summarized below. Occurrence rates reported during 1986 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.

	1986	1987
Propeller Wounds	5.8%	7.3%
Carapace Damage (Unknown Cause)	4.9%	7.1%
Plastron Damage (Unknown Cause)	0.6%	1.4%
Skull Injuries	0.9%	2.4%
Skull Missing	1.7%	1.9%
Skull & Flipper(s) Combination Missing	5.6%	6.6%
Flipper(s) Missing (Unknown Cause)	4.6%	4.1%
Flipper(s) Missing (Man Induced)	1.1%	2.0%
Partial Flipper Damage (Unknown Cause)	4.2%	7.6%
Bullet Wounds	1.0%	0.8%
Apparent Shark Wounds	1.1%	1.2%
External Tumors	0.8%	1.5%
Apparent Deliberate Mutilation	3.4%	2.7%
Tar or Oil Impact	0.5%	0.5%
Cold Stun Related	2.2%	3.5%
Entangled in Fishing Line	0.5%	0.8%
Entangled in Fishing Net	0.1%	0.3%
Entangled in Non-Fishing Gear Materials	0.2%	0.3%
Rope(s) Tied to Flippers, Neck, or Body	0.4%	0.6%
Fishing Line Protruding From Mouth or Cloaca (Not Entangled)	0.0%	0.1%
Fishing Hooks in Mouth	0.3%	0.1%
Plastic Ingestion (Non-fishing Gear)	1.1%*	2.6%*
Fishing Hooks in Digestive Tract	0.0%	0.1%*
Fishing Line in Digestive Tract	0.0%	0.9%*

* Rates of occurrence of anomalies observable <u>only</u> upon necropsy are expressed as a percentage of total turtles necropsied (N=233).

Acknowledgements

The Sea Turtle Stranding and Salvage Network is possible only through the efforts and dedication of the hundreds of network participants who document and compile records of stranded marine turtles, not a generally pleasant task. We thank all contributors during 1987. Our sincere appreciation is extended to each of the state coordinators (listed on the following pages) for their cooperation, efforts, and assistance. Doug Burn of the NMFS Miami Laboratory provided valuable assistance with PC-SAS. Larry Hansen, also of the NMFS Miami Laboratory was extremely helpful with a variety of software questions. We would especially like to thank Larry Ogren of the NMFS Panama City Laboratory for his continued support and encouragement in the management of the STSSN.

SEA TURTLE STRANDING AND SALVAGE NETWORK (STSSN)

U.S. Atlantic and Gulf of Mexico

(July 1988)

Network Coordinator:

Barbara Schroeder
National Marine Fisheries Service
Miami Laboratory
75 Virginia Beach Drive
Miami, FL 33149
(305)361-4488

Data Entry Coordinator:

Amy Warner
National Marine Fisheries Service
Miami Laboratory
75 Virginia Beach Drive
Miami, FL 33149
(305)361-4266

Cooperating Coordinators:

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

Doug Beach
National Marine Fisheries Service
Northeast Regional Office
#2 State Fish Pier
Gloucester, MA 01930
(617)281-3600

Tracey McKenzie
National Marine Fisheries Service
Narragansett Laboratory
RR7 South Ferry Road
Narragansett, RI 02882
(401)782-3258

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

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

Earl Possardt
U.S. Fish and Wildlife Service
2747 Art Museum Drive
Jacksonville, FL 32207
(904)791-2580

State Coordinators:

Texas

Robert G. Whistler
Padre Island National Seashore
9405 South Padre Island Drive
Corpus Christi, TX 78418
(512)949-8173

Louisiana

Steve Rabalais
Louisiana Univ. Marine Consortium
Marine Research & Education Center
Chauvin, LA 70344
(504)851-2800

Mississippi

Ted Simon, Ph.D.
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

Walt Conley
Florida DNR
Bureau of Marine Research
100 Eighth Avenue, SE
St. Petersburg, FL 33701
(813)896-8626

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
School of Marine Science
Gloucester, VA 23062
(804)642-7317

Delaware

Janis Thomas
Delaware DNR
Division of Fish and Wildlife
P.O. Box 1401
Dover, DE 19903
(302)736-4782

State Coordinators: (continued)

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

Neil Overstrom
Mystic Marinelife Aquarium
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
(617)349-2615

Puerto Rico

Kathy Hall
University of Puerto Rico
Department of Marine Sciences
Mayaguez, PR 00708
(809)834-4040 ext. 2511

Massachusetts (Boston North), New Hampshire, Maine

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

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 1987 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	147	15	1	10	57	18	248
Louisiana	34	2	1	0	22	14	73
Mississippi	7	3	0	0	3	2	15
Alabama	36	1	0	0	5	0	42
Florida (Gulf)	153	41	1	0	16	4	215
Florida (Atlantic)	461	73	37	12	14	21	618
Georgia	280	2	10	1	15	26	334
South Carolina	253	0	2	0	10	3	268
North Carolina	174	2	3	0	11	4	194
Virginia	95	1	3	0	7	1	107
Maryland	8	0	0	0	0	0	8
Delaware	9	0	0	0	0	5	14
New Jersey	38	0	34	0	1	0	73
New York	28	4	23	0	33	0	88
Connecticut	0	0	1	0	0	0	1
Rhode Island	0	0	6	0	0	0	6
Massachusetts	16	0	11	0	23	0	50
Puerto Rico	0	8	1	4	0	0	13
U.S. Virgin Islands	0	4	0	2	0	0	6
TOTAL	1739	156	134	29	217	98	2373

*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 1987 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	0	9	13	65	38	13	32	21	15	19	7	16	248
Louisiana	1	0	2	2	25	17	4	3	2	3	4	10	73
Mississippi	0	0	1	3	2	6	1	1	1	0	0	0	15
Alabama	0	0	0	0	11	24	1	0	0	6	0	0	42
Florida (Gulf)	12	11	42	36	34	23	12	11	7	8	6	13	215
Florida (Atl)	6	16	23	40	74	115	90	67	55	19	66	47	618
Georgia	1	0	0	4	123	102	44	23	14	9	12	2	334
South Carolina	0	0	0	0	30	143	52	15	24	4	0	0	268
North Carolina	12	3	10	1	34	34	35	26	11	5	5	18	194
Virginia	1	0	1	0	3	54	8	19	9	9	2	1	107
Maryland	0	0	0	0	0	3	1	1	0	2	1	0	8
Delaware	0	0	0	0	0	1	1	6	4	2	0	0	14
New Jersey	0	0	0	0	0	1	7	19	26	18	2	0	73
New York	3	0	1	0	0	2	7	25	3	4	19	24	88

(continued)

Table 2. Continued.

STATE	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Connecticut	0	0	0	0	0	0	0	0	1	0	0	0	1
Rhode Island	0	0	0	0	0	0	1	1	3	1	0	0	6
Massachusetts	1	0	0	0	1	0	0	1	5	3	28	11	50
Puerto Rico	0	1	0	2	2	1	2	4	0	1	0	0	13
Virgin Islands	1	1	0	1	0	0	1	0	2	0	0	0	6
TOTAL	38	41	93	154	377	539	299	243	182	113	152	142	2373

Table 3. Marine turtle strandings reported from 1 January - 31 December 1987 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	22	26	63	108	300	487	242	180	125	56	63	67	1739
C. mydas	11	9	12	18	22	7	19	13	8	15	8	14	156
D. coriacea	0	0	0	14	11	4	9	19	22	20	25	10	134
E. imbricata	0	2	4	1	1	1	3	7	5	2	2	1	29
L. kempi	5	4	12	12	19	17	12	17	15	17	49	38	217
Unidentified	0	0	2	1	24	23	14	7	7	3	5	12	98
TOTAL	38	41	93	154	377	539	299	243	182	113	152	142	2373

Table 4(a). Marine turtle strandings reported from TEXAS, 1 January - 31 December 1987 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	0	6	6	50	28	8	16	8	8	7	3	7	147
C. mydas	0	0	1	3	3	1	1	1	0	3	0	2	15
D. coriacea	0	0	0	0	0	0	0	0	0	0	1	0	1
E. imbricata	0	1	0	0	0	1	3	2	0	2	0	1	10
L. kempi	0	2	5	11	5	1	4	8	6	6	3	6	57
Unidentified	0	0	1	1	2	2	8	2	1	1	0	0	18
TOTAL	0	9	13	65	38	13	32	21	15	19	7	16	248

Table 4(b). Marine turtle strandings reported from TEXAS, 1 January - 31 December 1987 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	0	0	0	4	1	3	5	0	1	1	15
Chambers	0	0	0	0	0	0	0	1	1	0	0	0	2
Galveston	0	0	2	4	6	1	4	5	2	4	3	1	32
Brazoria	0	0	0	0	1	1	2	0	0	1	0	0	5
Matagorda	0	1	0	3	4	0	4	3	2	0	0	2	19
Calhoun	0	1	0	9	3	2	6	1	2	6	0	1	31
Aransas	0	0	0	1	3	0	1	0	0	1	0	0	6
Nueces	0	2	1	21	12	3	8	6	0	5	3	5	66
Kleberg	0	0	4	9	4	0	3	1	1	0	0	2	24
Kenedy	0	3	1	8	0	2	1	0	2	0	0	1	18
Willacy	0	0	0	2	0	0	0	1	0	0	0	0	3
Cameron	0	2	5	8	5	0	2	0	0	2	0	3	27
TOTAL	0	9	13	65	38	13	32	21	15	19	7	16	248

Table 5(a). Marine turtle strandings reported from LOUISIANA, 1 January - 31 December 1987 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	1	2	14	15	1	0	0	0	0	0	34
C. mydas	0	0	0	0	0	0	0	0	0	1	1	0	2
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	1	0	10	2	3	3	2	0	0	1	22
Unidentified	0	0	0	0	0	0	0	0	0	2	3	9	14
TOTAL	1	0	2	2	25	17	4	3	2	3	4	10	73

Table 5(b). Marine turtle strandings reported from LOUISIANA, January - 31 December 1987 by parish and month of occurrence. All species are combined. Only parishes from which strandings were reported are included.

COUNTY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
St. Bernard	0	0	0	0	10	9	0	0	0	0	0	0	19
Plaquemines	0	0	0	0	0	0	0	0	0	1	0	0	1
Jefferson	0	0	0	0	3	3	0	0	2	0	1	0	9
Lafourche	0	0	0	0	1	0	0	0	0	0	0	0	1
Terrebone	0	0	0	0	0	2	0	0	0	0	0	1	3
Iberia	0	0	0	0	0	0	0	0	0	0	0	9	9
Cameron	1	0	2	2	11	3	4	2	0	2	3	0	30
Calcasieu	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	1	0	2	2	25	17	4	3	2	3	4	10	73

Table 6(a). Marine turtle strandings reported from MISSISSIPPI, 1 January - 31 December 1987 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	2	4	0	0	0	0	0	0	7
C. mydas	0	0	0	3	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	1	1	1	0	0	0	3
Unidentified	0	0	0	0	0	2	0	0	0	0	0	0	2
TOTAL	0	0	1	3	2	6	1	1	1	0	0	0	15

Table 6(b). Marine turtle strandings reported from MISSISSIPPI, 1 January - 31 December 1987 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	0	0	0	1	2	0	1	0	0	0	0	4
Harrison	0	0	1	3	1	4	1	0	0	0	0	0	10
Hancock	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	0	1	3	2	6	1	1	1	0	0	0	15

Table 7(a). Marine turtle strandings reported from ALABAMA, 1 January - 31 December 1987 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	10	24	1	0	0	1	0	0	36
C. mydas	0	0	0	0	1	0	0	0	0	0	0	0	1
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	5	0	0	5
TOTAL	0	0	0	0	11	24	1	0	0	6	0	0	42

Table 7(b). Marine turtle strandings reported from ALABAMA, 1 January - 31 December 1987 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	0	0	10	24	0	0	0	0	0	0	34
Mobile	0	0	0	0	1	0	1	0	0	6	0	0	8
TOTAL	0	0	0	0	11	24	1	0	0	6	0	0	42

Table 8(a). Marine turtle strandings reported from FLORIDA(GULF), 1 January - 31 December 1987 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	3	4	34	30	28	20	8	10	5	3	4	4	153
C. mydas	9	5	4	4	1	1	4	0	1	4	1	7	41
D. coriacea	0	0	0	1	0	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	2	4	1	2	2	0	1	0	1	1	2	16
Unidentified	0	0	0	0	3	0	0	0	1	0	0	0	4
TOTAL	12	11	42	36	34	23	12	11	7	8	6	13	215

Table 8(b). Marine turtle strandings reported from FLORIDA(GULF), 1 January - 31 December 1987 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	4	3	3	3	5	0	4	3	4	3	1	8	41
Collier	0	1	1	5	3	2	2	1	1	0	0	0	16
Lee	3	4	21	7	8	3	3	1	0	2	0	3	55
Charlotte	0	0	3	3	1	1	0	0	0	0	0	0	8
Sarasota	0	0	10	9	1	1	2	1	0	0	0	0	24
Manatee	1	0	2	4	4	3	0	0	0	0	0	0	14
Pinellas	4	3	1	1	4	6	0	2	0	2	3	1	27
Franklin	0	0	0	1	3	0	0	1	0	0	1	0	6
Gulf	0	0	0	1	2	0	0	0	0	0	0	0	3
Bay	0	0	0	0	2	2	1	0	2	0	0	0	7
Walton	0	0	0	0	0	0	0	1	0	0	0	0	1
Okaloosa	0	0	0	1	0	0	0	0	0	0	0	0	1
Santa Rosa	0	0	0	0	0	0	0	1	0	0	0	0	1
Escambia	0	0	0	1	1	4	0	0	0	1	0	0	7
Hillsborough	0	0	1	0	0	1	0	0	0	0	1	1	4
TOTAL	12	11	42	36	34	23	12	11	7	8	6	13	215

Table 9(a). Marine turtle strandings reported from FLORIDA(ATLANTIC), 1 January - 31 December 1987 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	5	13	11	24	55	104	76	54	45	11	36	27	461
C. mydas	1	3	7	6	14	4	9	10	7	6	1	5	73
D. coriacea	0	0	0	9	1	0	0	0	0	1	17	9	37
E. imbricata	0	0	4	1	1	0	0	2	2	0	2	0	12
L. kempi	0	0	0	0	0	1	0	0	0	1	8	4	14
Unidentified	0	0	1	0	3	6	5	1	1	0	2	2	21
TOTAL	6	16	23	40	74	115	90	67	55	19	66	47	618

Table 9(b). Marine turtle strandings reported from FLORIDA(ATLANTIC), 1 January - 31 December 1987 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	0	0	0	2	20	16	9	10	7	1	7	1	73
Duval	0	0	0	10	5	21	17	11	16	4	11	5	100
St. John's	0	0	1	6	5	33	14	18	11	5	30	23	146
Flagler	1	1	0	2	3	9	7	1	3	1	3	4	35
Volusia	0	3	5	1	3	13	19	1	1	0	7	0	53
Brevard	1	3	1	4	8	12	10	11	6	0	2	1	59
Indian River	0	0	1	1	1	2	5	2	0	0	0	4	16
St. Lucie	0	1	2	8	12	4	3	6	5	2	1	2	46
Martin	1	1	3	1	7	1	1	1	1	1	2	1	21
Palm Beach	1	2	1	4	2	2	1	2	1	1	2	2	21
Broward	1	5	3	0	5	0	3	3	2	2	0	2	26
Dade	0	0	5	1	3	2	1	1	2	1	0	1	17
Monroe	1	0	1	0	0	0	0	0	0	1	1	1	5
TOTAL	6	16	23	40	74	115	90	67	55	19	66	47	618

Table 10(a). Marine turtle strandings reported from GEORGIA, 1 January - 31 December 1987 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	2	98	88	41	21	12	9	7	1	280
C. mydas	0	0	0	0	1	0	1	0	0	0	0	0	2
D. coriacea	0	0	0	2	7	0	0	0	0	0	0	1	10
E. imbricata	0	0	0	0	0	0	0	0	1	0	0	0	1
L. kempi	0	0	0	0	1	4	2	2	1	0	5	0	15
Unidentified	0	0	0	0	16	10	0	0	0	0	0	0	26
TOTAL	1	0	0	4	123	102	44	23	14	9	12	2	334

Table 10(b). Marine turtle strandings reported from GEORGIA, 1 January - 31 December 1987 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	0	38	33	8	5	0	6	2	1	93
McIntosh	0	0	0	0	6	17	6	3	3	0	2	0	37
Glynn	0	0	0	1	43	42	15	7	6	2	2	0	118
Camden	1	0	0	3	36	10	15	8	5	1	6	1	86
TOTAL	1	0	0	4	123	102	44	23	14	9	12	2	334

Table 11(a). Marine turtle strandings reported from SOUTH CAROLINA, 1 January - 31 December 1987 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	27	137	50	14	22	3	0	0	253
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	2	0	0	0	0	0	0	0	2
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	1	4	1	1	2	1	0	0	10
Unidentified	0	0	0	0	0	2	1	0	0	0	0	0	3
TOTAL	0	0	0	0	30	143	52	15	24	4	0	0	268

Table 11(b). Marine turtle strandings reported from SOUTH CAROLINA, 1 January - 31 December 1987 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	0	4	1	0	3	7	1	0	0	16
Georgetown	0	0	0	0	1	4	1	0	0	0	0	0	6
Charlestown	0	0	0	0	10	91	31	6	11	1	0	0	150
Colleton	0	0	0	0	1	8	4	3	3	1	0	0	20
Beaufort	0	0	0	0	14	39	16	3	3	1	0	0	76
TOTAL	0	0	0	0	30	143	52	15	24	4	0	0	268

Table 12(a). Marine turtle strandings reported from NORTH CAROLINA, 1 January - 31 December 1987 by species and month of occurrence.

SPECIES	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
C. caretta	11	3	9	0	34	32	33	25	9	5	3	10	174
C. mydas	0	0	0	0	0	0	1	0	0	0	1	0	2
D. coriacea	0	0	0	1	0	1	0	0	0	0	1	0	3
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	1	0	1	0	0	1	1	0	0	0	0	7	11
Unidentified	0	0	0	0	0	0	0	1	2	0	0	1	4
TOTAL	12	3	10	1	34	34	35	26	11	5	5	18	194

Table 12(b). Marine turtle strandings reported from NORTH CAROLINA, 1 January - 31 December 1987 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	0	0	0	0	0	2	0	0	0	1	1	0	4
Dare	6	2	0	0	0	3	1	2	1	3	1	13	32
Hyde	5	0	0	0	0	0	0	0	0	0	1	0	6
Carteret	1	1	9	0	7	18	12	15	3	1	1	5	73
Onlsow	0	0	0	0	4	5	0	1	1	0	0	0	11
Pender	0	0	0	0	2	1	1	0	0	0	0	0	4
New Hanover	0	0	1	0	4	0	6	0	0	0	0	0	11
Brunswick	0	0	0	1	17	5	15	8	6	0	1	0	53
TOTAL	12	3	10	1	34	34	35	26	11	5	5	18	194

Table 13(a). Marine turtle strandings reported from VIRGINIA, 1 January - 31 December 1987 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	1	0	3	49	7	17	8	7	1	1	95
C. mydas	0	0	0	0	0	0	0	1	0	0	0	0	1
D. coriacea	0	0	0	0	0	2	1	0	0	0	0	0	3
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	0	0	0	0	0	2	0	1	1	2	1	0	7
Unidentified	0	0	0	0	0	1	0	0	0	0	0	0	1
TOTAL	1	0	1	0	3	54	8	19	9	9	2	1	107

Table 13(b). Marine turtle strandings reported from VIRGINIA, 1 January - 31 December 1987 by county/city and month of occurrence. Coastal areas in Virginia include counties and independent cities. All species are combined. Only counties/cities 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	4	1	0	0	0	6
Gloucester	0	0	0	0	0	6	0	2	1	0	0	0	9
Mathews	0	0	0	0	0	11	0	1	0	0	0	0	12
Middlesex	0	0	0	0	0	0	0	0	1	0	0	0	1
Northampton	0	0	0	0	0	9	1	2	0	0	0	0	12
Northumberland	0	0	0	0	0	1	0	0	0	1	0	0	2
York	0	0	0	0	0	2	1	0	2	0	0	0	5
Hampton	0	0	0	0	0	10	1	1	1	0	0	0	13
Norfolk	0	0	1	0	1	0	2	3	0	0	0	0	7
Virginia Beach	1	0	0	0	2	14	3	6	3	8	2	1	40
TOTAL	1	0	1	0	3	54	8	19	9	9	2	1	107

Table 14(a). Marine turtle strandings reported from MARYLAND, 1 January - 31 December 1987 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	3	1	1	0	2	1	0	8
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	0	0	0	3	1	1	0	2	1	0	8

Table 14(b). Marine turtle strandings reported from MARYLAND, 1 January - 31 December 1987 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
Anne Arundel	0	0	0	0	0	0	0	1	0	0	0	0	1
Calvert	0	0	0	0	0	0	0	0	0	2	0	0	2
St. Mary's	0	0	0	0	0	1	1	0	0	0	1	0	3
Somerset	0	0	0	0	0	2	0	0	0	0	0	0	2
TOTAL	0	0	0	0	0	3	1	1	0	2	1	0	8

Table 15(a). Marine turtle strandings reported from DELAWARE, 1 January - 31 December 1987 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	1	1	3	2	2	0	0	9
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	3	2	0	0	0	5
TOTAL	0	0	0	0	0	1	1	6	4	2	0	0	14

Table 15(b). Marine turtle strandings reported from DELAWARE, 1 January - 31 December 1987 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
Kent	0	0	0	0	0	1	0	1	0	0	0	0	2
Sussex	0	0	0	0	0	0	1	5	4	2	0	0	12
TOTAL	0	0	0	0	0	1	1	6	4	2	0	0	14

Table 16(a). Marine turtle strandings reported from NEW JERSEY, 1 January - 31 December 1987 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	1	4	13	13	6	1	0	38
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	3	6	13	11	1	0	34
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	1	0	0	1
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	1	7	19	26	18	2	0	73

Table 16(b). Marine turtle strandings reported from NEW JERSEY, 1 January - 31 December 1987 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
Atlantic	0	0	0	0	0	0	1	2	3	4	0	0	10
Cape May	0	0	0	0	0	0	3	4	4	4	0	0	15
Monmouth	0	0	0	0	0	1	1	6	15	5	1	0	29
Ocean	0	0	0	0	0	0	2	7	4	5	1	0	19
TOTAL	0	0	0	0	0	1	7	19	26	18	2	0	73

Table 17(a). Marine turtle strandings reported from NEW YORK, 1 January - 31 December 1987 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	1	3	14	0	0	2	8	28
C. mydas	0	0	0	0	0	0	0	0	0	0	4	0	4
D. coriacea	0	0	0	0	0	1	4	11	1	4	2	0	23
E. imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0
L. kempi	3	0	1	0	0	0	0	0	2	0	11	16	33
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	1	0	0	2	7	25	3	4	19	24	88

Table 17(b). Marine turtle strandings reported from NEW YORK, 1 January - 31 December 1987 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
Kings	0	0	0	0	0	0	1	3	1	0	0	0	5
Nassau	1	0	0	0	0	2	1	6	0	0	0	0	10
Queens	0	0	0	0	0	0	0	4	0	0	0	0	4
Richmond	0	0	0	0	0	0	0	2	0	0	0	0	2
Suffolk	2	0	1	0	0	0	5	9	2	4	19	24	66
Westchester	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL	3	0	1	0	0	2	7	25	3	4	19	24	88

Table 18(a). Marine turtle strandings reported from CONNECTICUT, 1 January - 31 December 1987 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	1	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	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	1	0	0	0	1

Table 18(b). Marine turtle strandings reported from CONNECTICUT, 1 January - 31 December 1987 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
Fairfield	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	1

Table 19(a). Marine turtle strandings reported from RHODE ISLAND, 1 January - 31 December 1987 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	1	1	3	1	0	0	6
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	1	3	1	0	0	6

Table 19(b). Marine turtle strandings reported from RHODE ISLAND, 1 January - 31 December 1987 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
Newport	0	0	0	0	0	0	0	0	1	1	0	0	2
Washington	0	0	0	0	0	0	1	1	2	0	0	0	4
TOTAL	0	0	0	0	0	0	1	1	3	1	0	0	6

Table 20(a). Marine turtle strandings reported from MASSACHUSETTS, 1 January - 31 December 1987 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	0	0	0	1	0	5	9	16
C. mydas	0	0	0	0	0	0	0	0	0	0	0	0	0
D. coriacea	0	0	0	0	0	0	0	1	4	3	3	0	11
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	20	2	23
Unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	1	0	0	1	5	3	28	11	50

Table 20(b). Marine turtle strandings reported from MASSACHUSETTS, 1 January - 31 December 1987 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
Barnstable	1	0	0	0	1	0	0	1	4	0	26	11	44
Bristol	0	0	0	0	0	0	0	0	1	1	2	0	4
Dukes	0	0	0	0	0	0	0	0	0	1	0	0	1
Essex	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	1	0	0	0	1	0	0	1	5	3	28	11	50

Table 21(a). Marine turtle strandings reported from PUERTO RICO, 1 January - 31 December 1987 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	1	2	1	2	1	0	1	0	0	8
D. coriacea	0	0	0	1	0	0	0	0	0	0	0	0	1
E. imbricata	0	1	0	0	0	0	0	3	0	0	0	0	4
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	1	0	2	2	1	2	4	0	1	0	0	13

Table 22(a). Marine turtle strandings reported from the U.S. VIRGIN ISLANDS, 1 January - 31 December 1987 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	1	1	0	1	0	0	1	0	0	0	0	0	4
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	2	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	1	1	0	1	0	0	1	0	2	0	0	0	6

Table 23. Strandings of headstarted turtles reported through the STSSN, 1 January - 31 December 1987.

Species: Chelonia mydas

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Florida (Atl)	0	0	0	0	2	0	1	1	0	0	0	0	4
TOTAL	0	0	0	0	2	0	1	1	0	0	0	0	4

Species: Lepidochelys kempi

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Louisiana	0	0	0	0	1	1	0	0	0	0	0	0	2
Texas	3	1	0	0	5	2	1	1	0	1	0	0	14
TOTAL	3	1	0	0	6	3	1	1	0	1	0	0	16

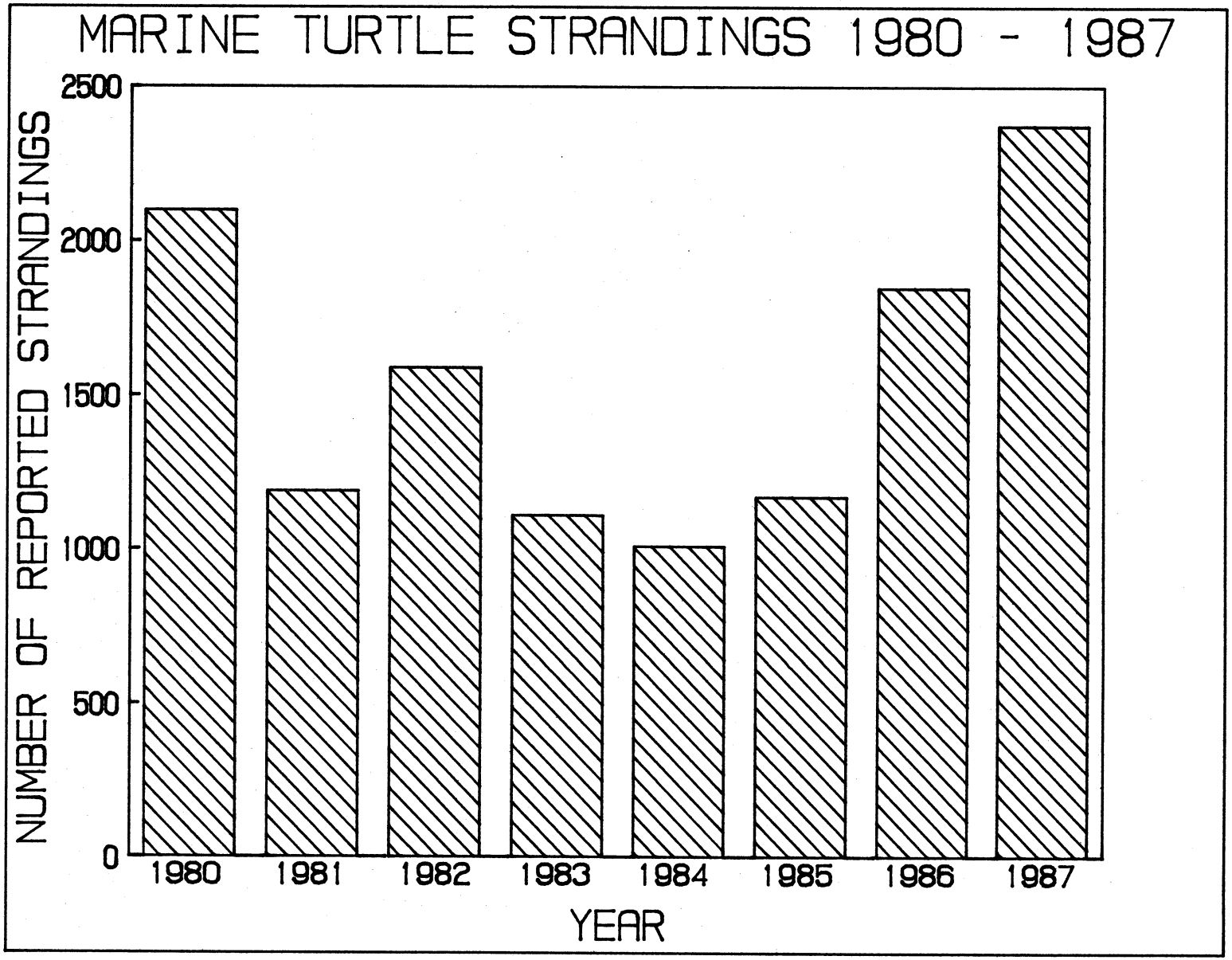


Figure 1. Marine turtle strandings reported annually from the U.S. Atlantic and Gulf of Mexico, 1980 - 1987. All species are combined.

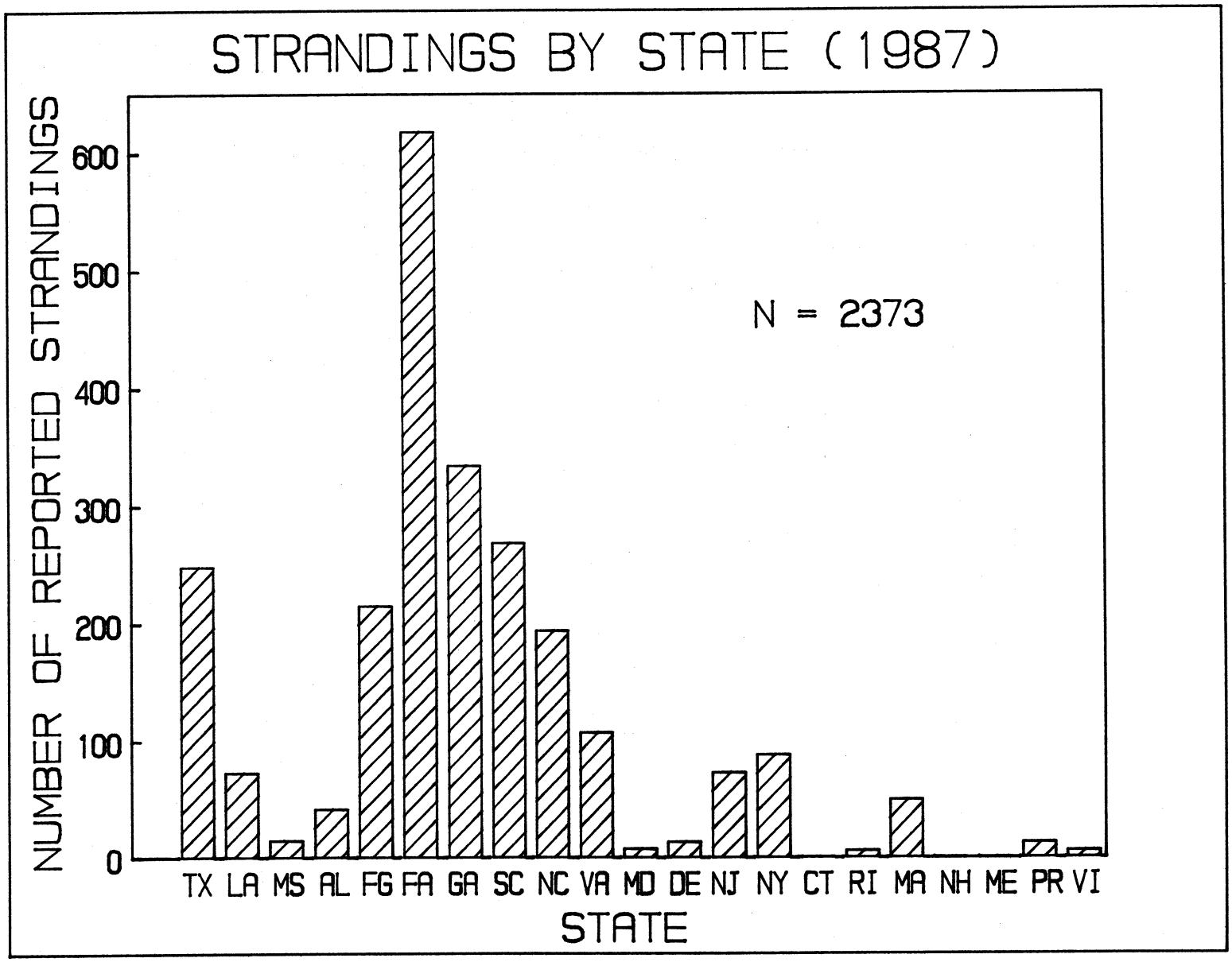


Figure 2. Marine turtle strandings reported from the U.S. Atlantic and Gulf of Mexico, 1987. FG=Florida(Gulf), FA=Florida(Atlantic).

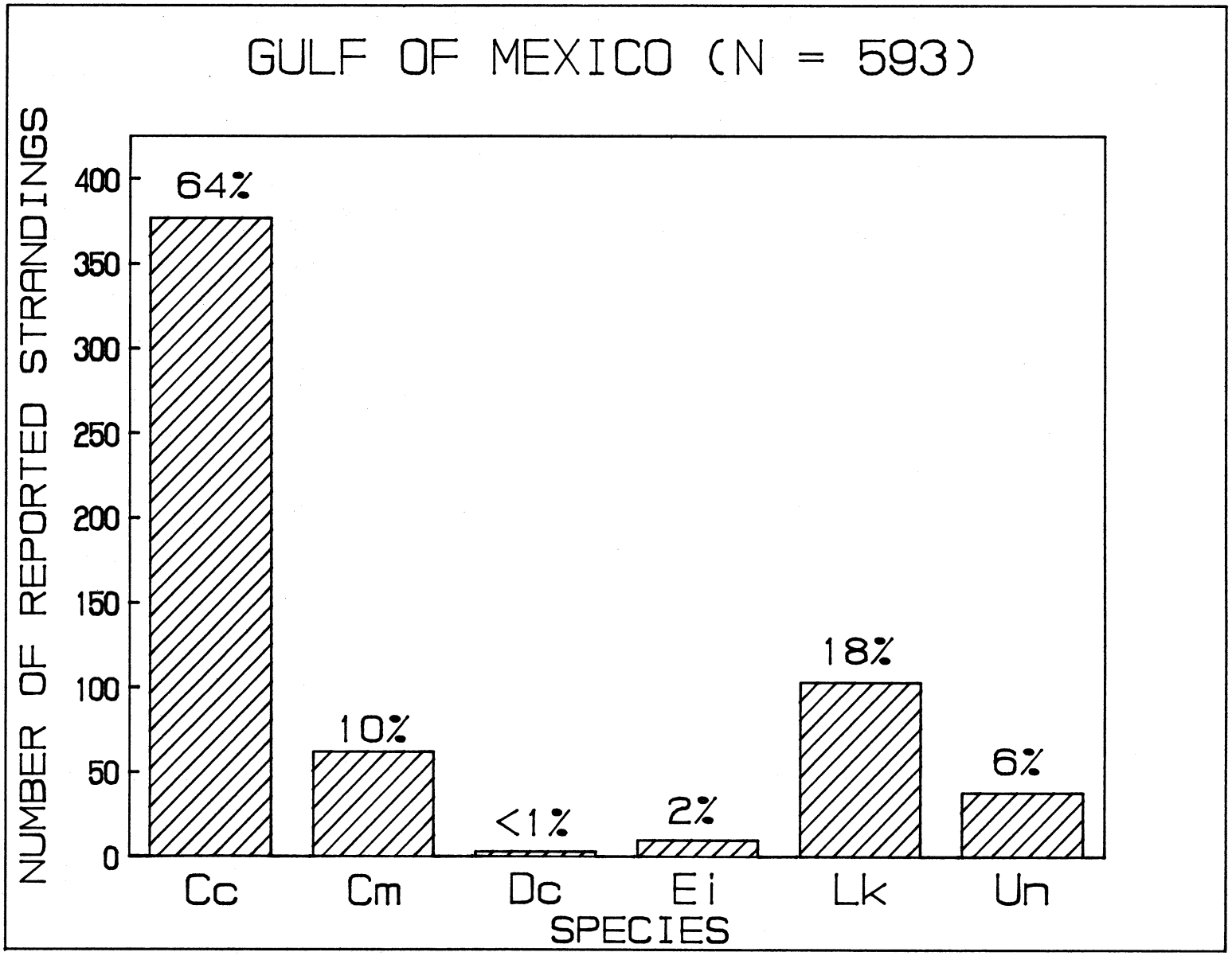


Figure 3. Species composition of stranded marine turtles reported from the Gulf of Mexico, 1987.

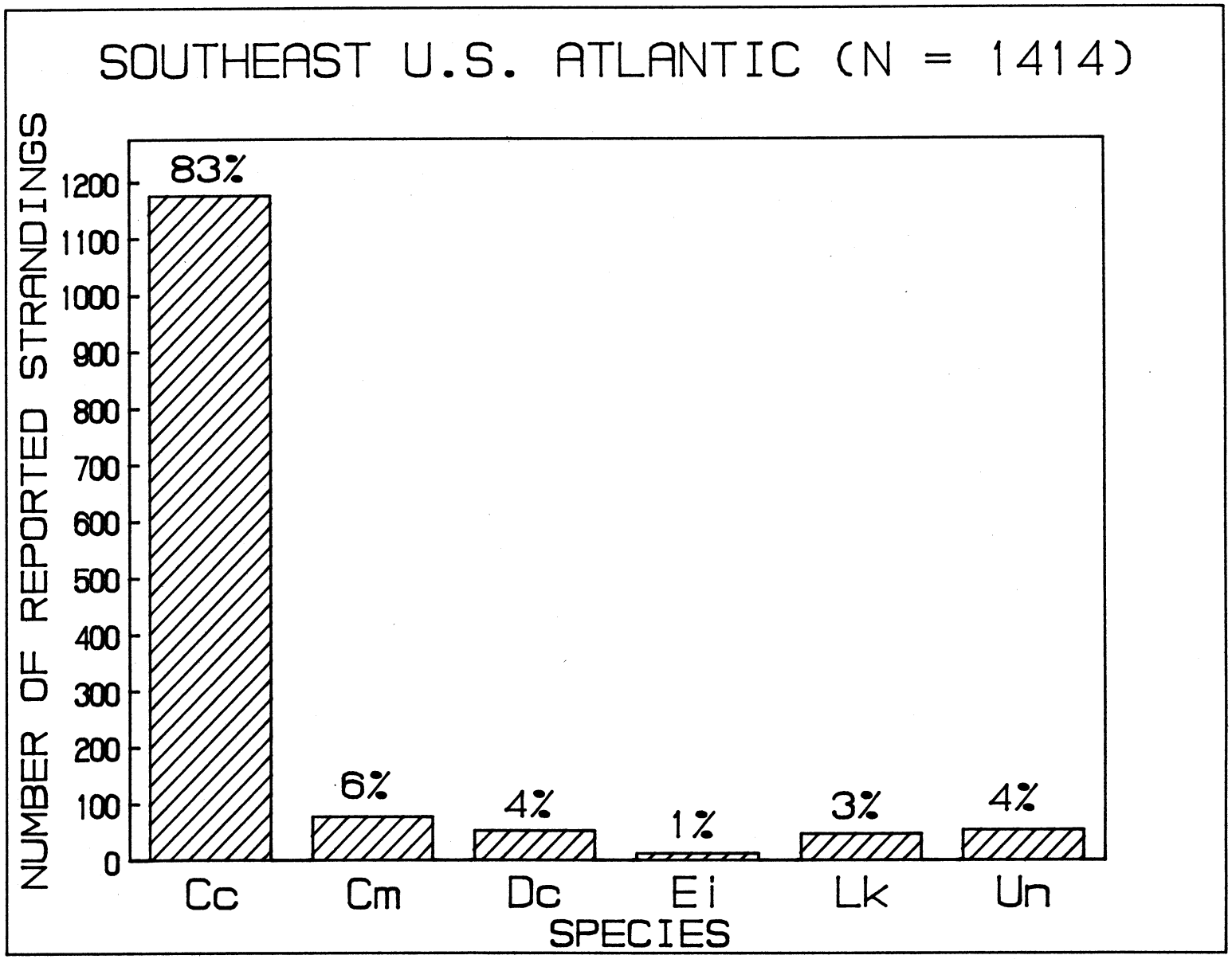


Figure 4. Species composition of stranded marine turtles reported from the southeast U.S. Atlantic, 1987.

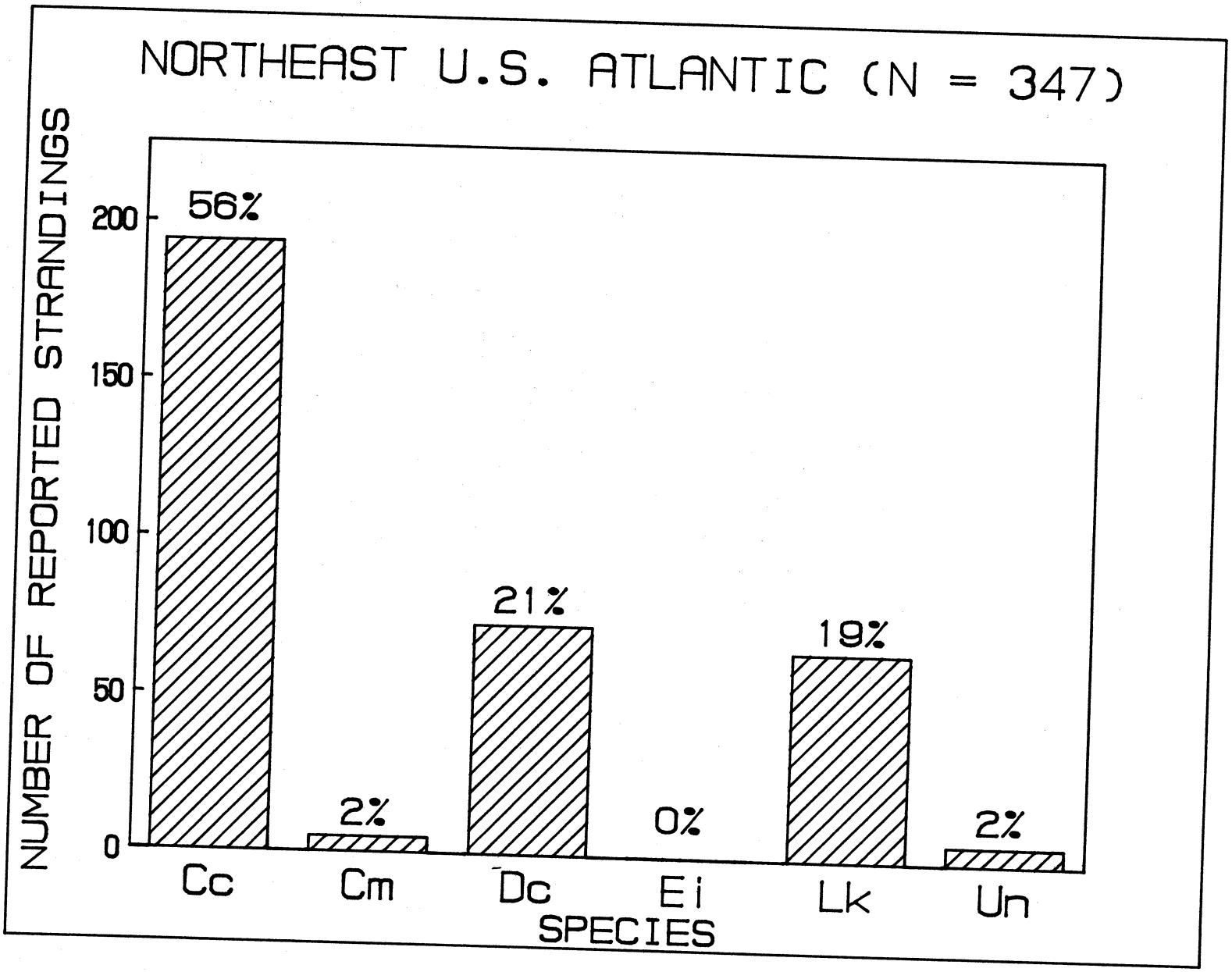
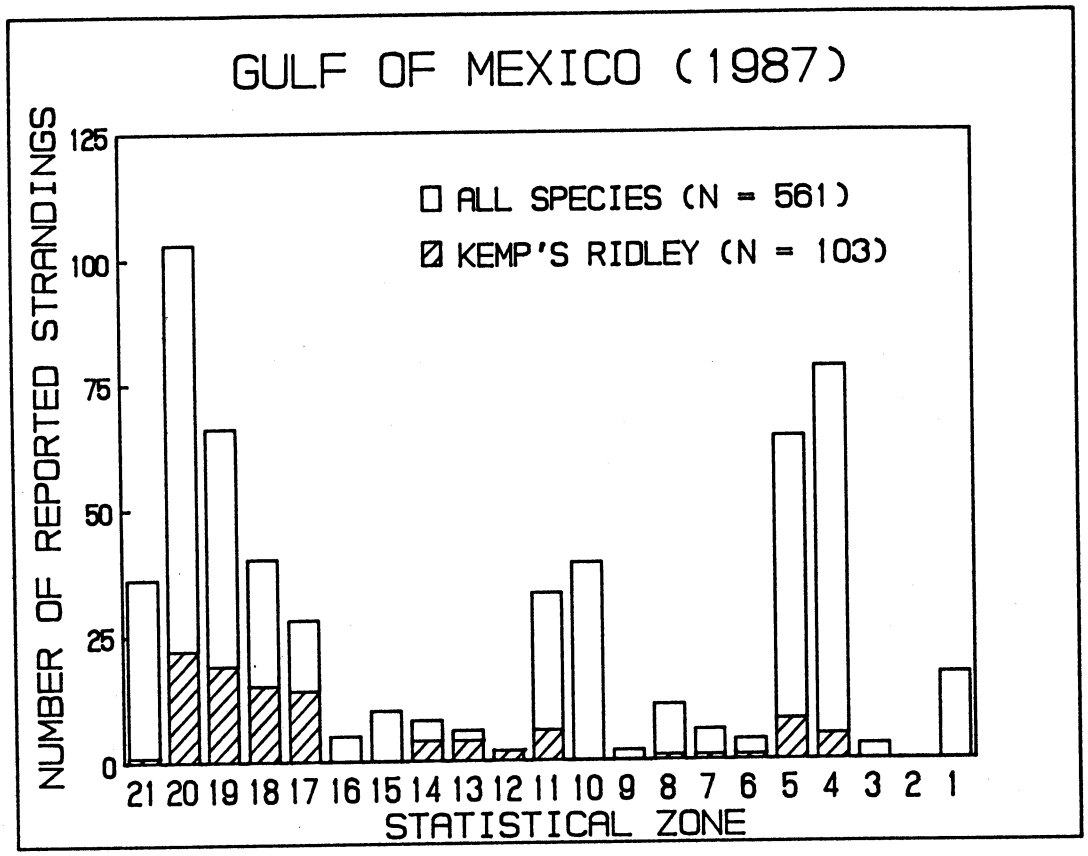


Figure 5. Species composition of stranded marine turtles reported from the northeast U.S. Atlantic, 1987.



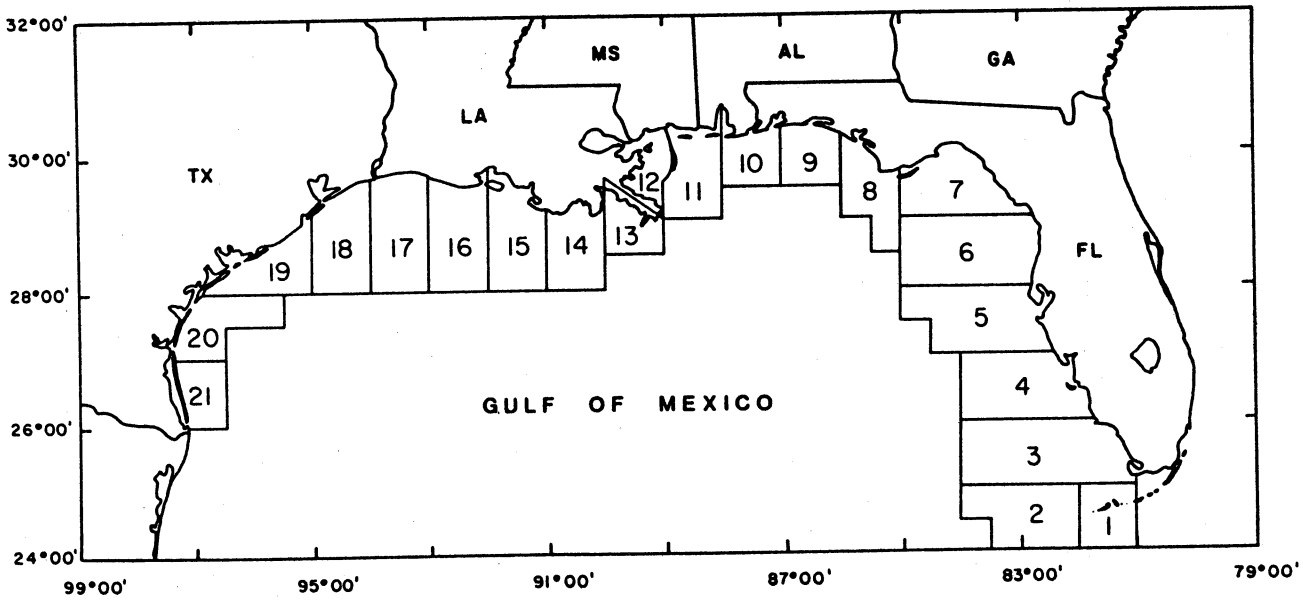


Figure 6. Marine turtle strandings reported from the Gulf of Mexico by statistical zone, 1987.

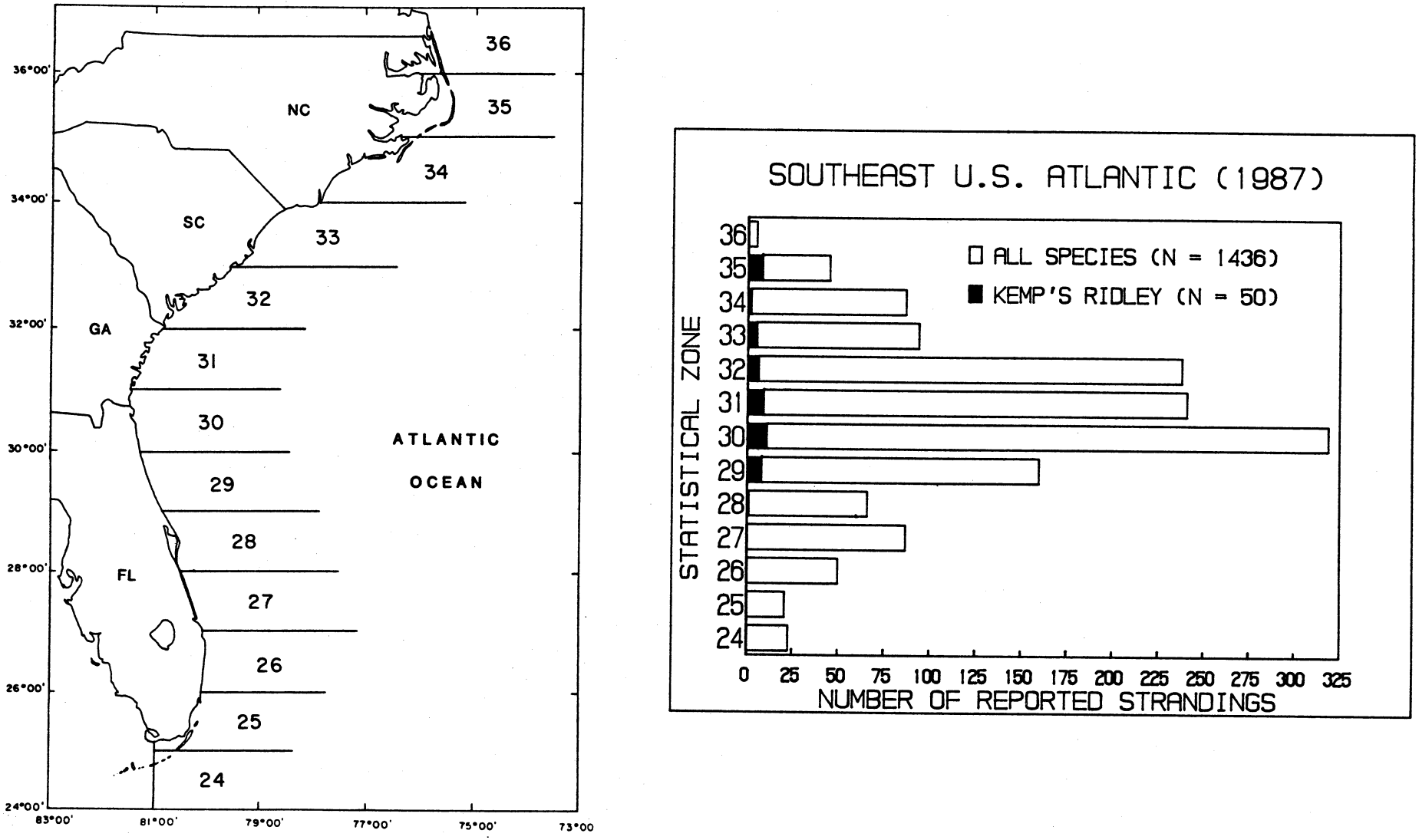
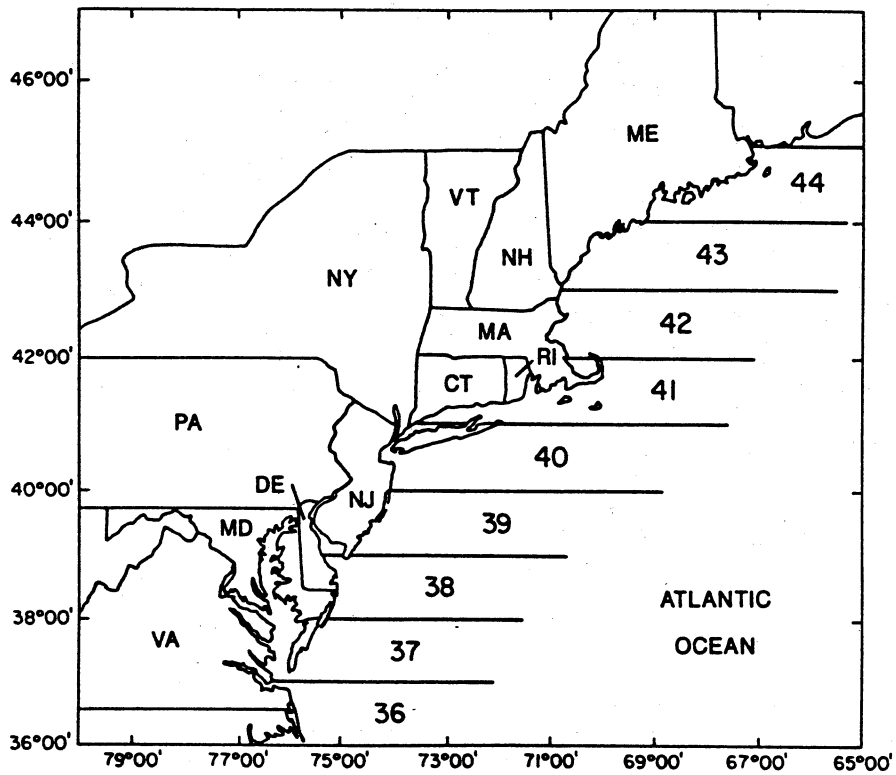


Figure 7. Marine turtle strandings reported from the southeast U.S. Atlantic by statistical zone, 1987.



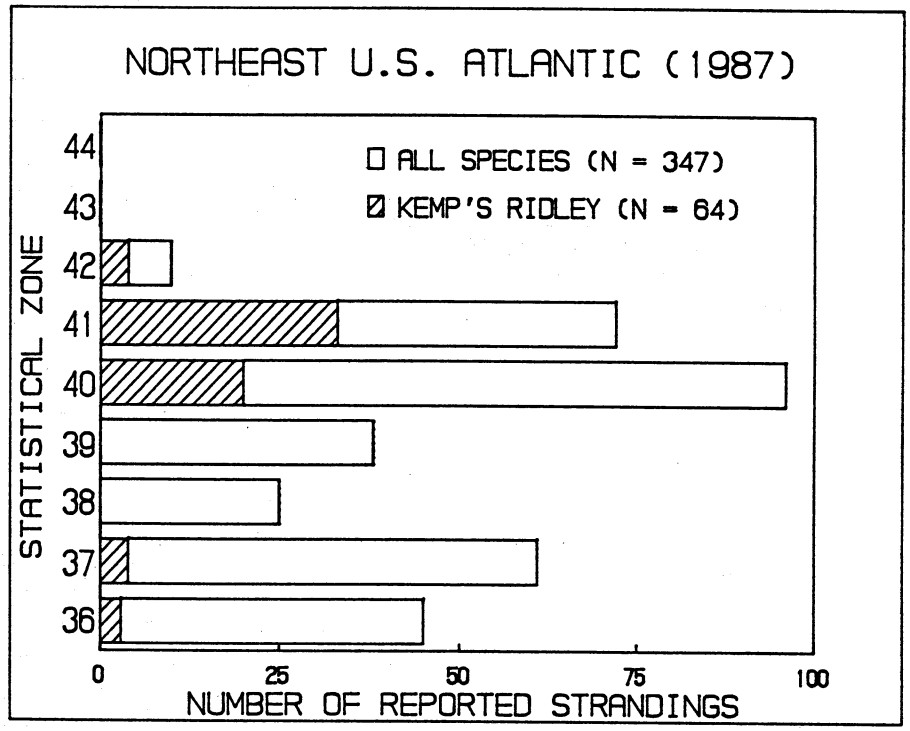


Figure 8. Marine turtle strandings reported from the northeast U.S. Atlantic by statistical zone, 1987.

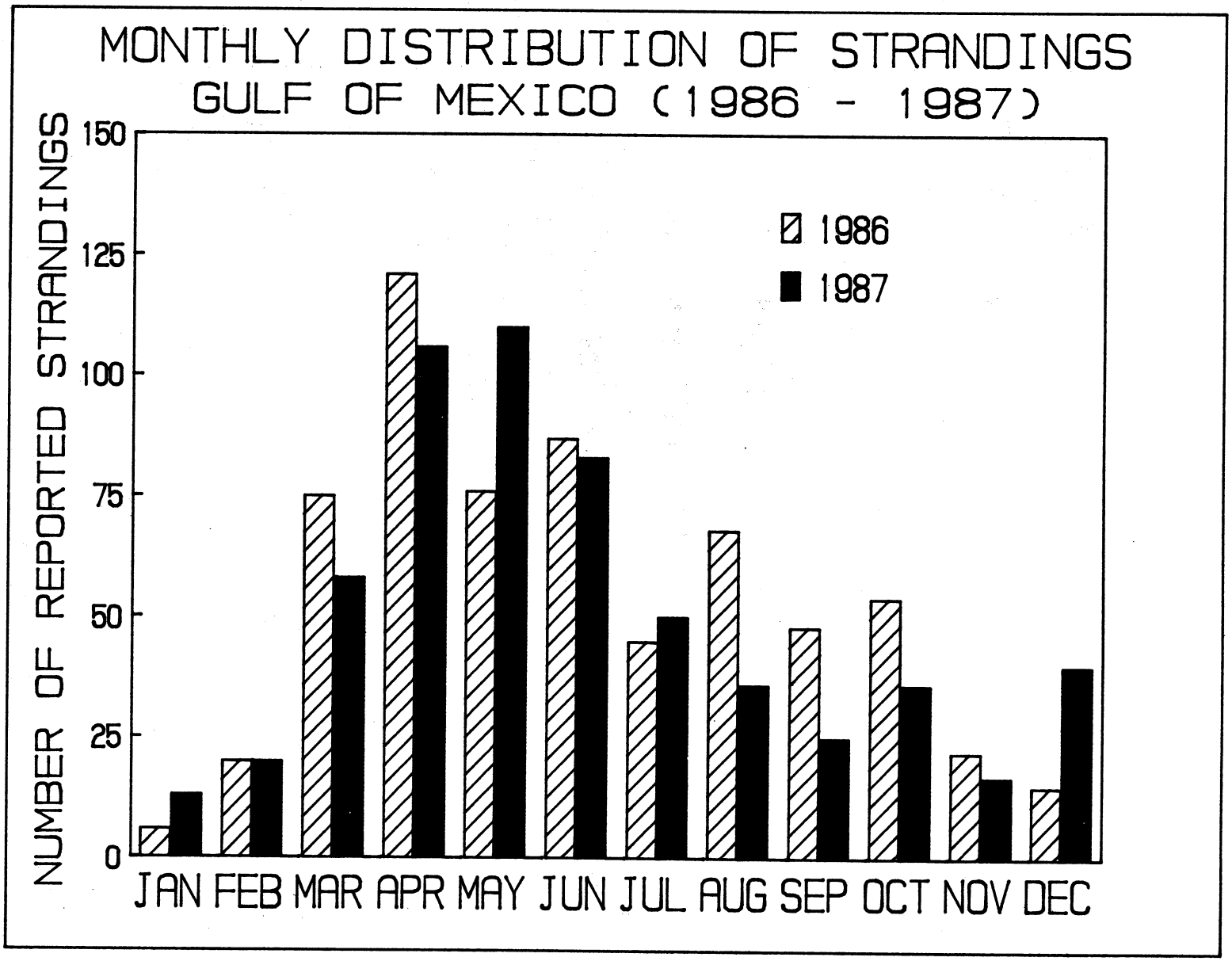


Figure 9. Monthly distribution of marine turtle strandings reported from the Gulf of Mexico, 1986 and 1987. All species are combined.

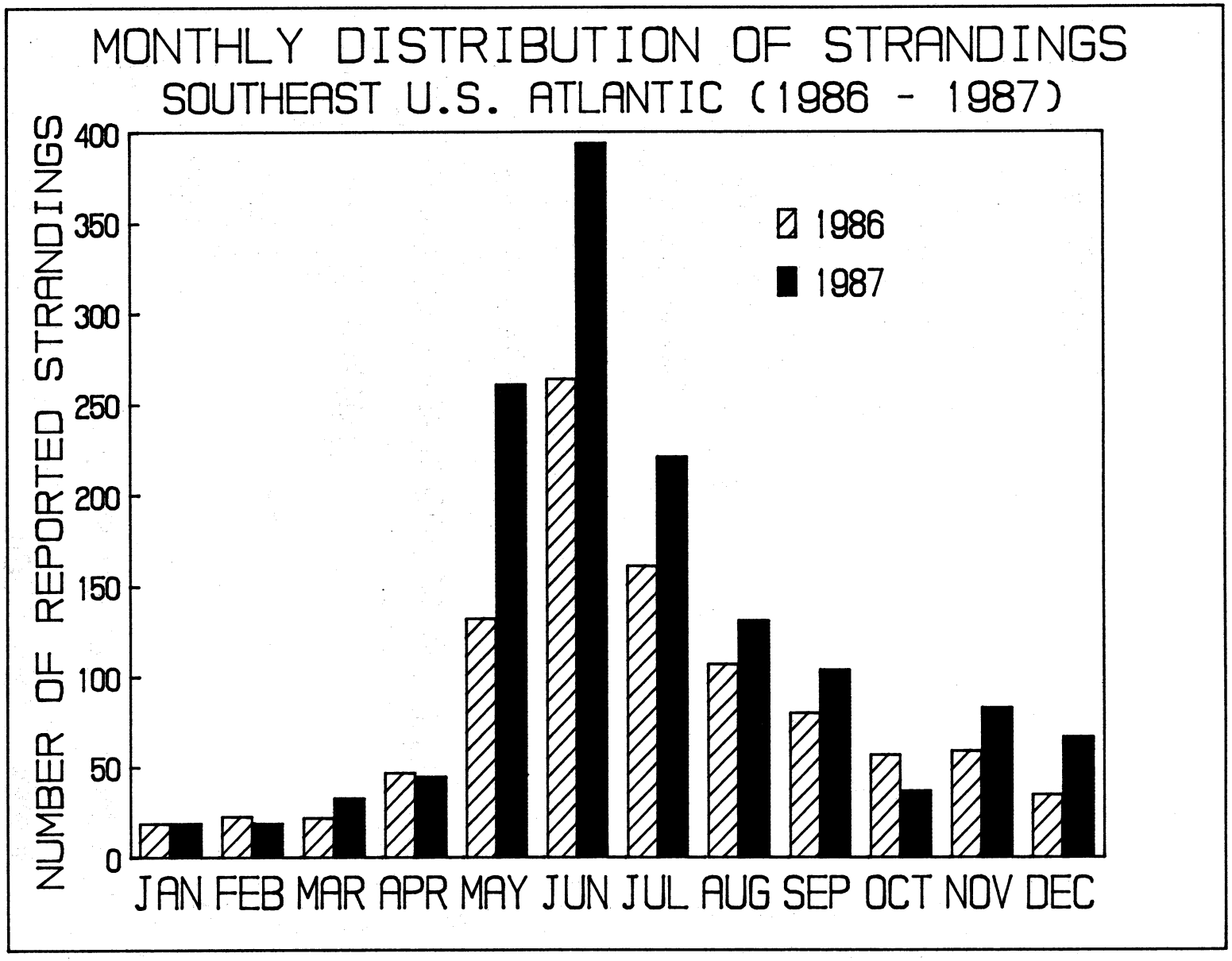


Figure 10. Monthly distribution of marine turtle strandings reported from the southeast U.S. Atlantic, 1986 and 1987. All species are combined.

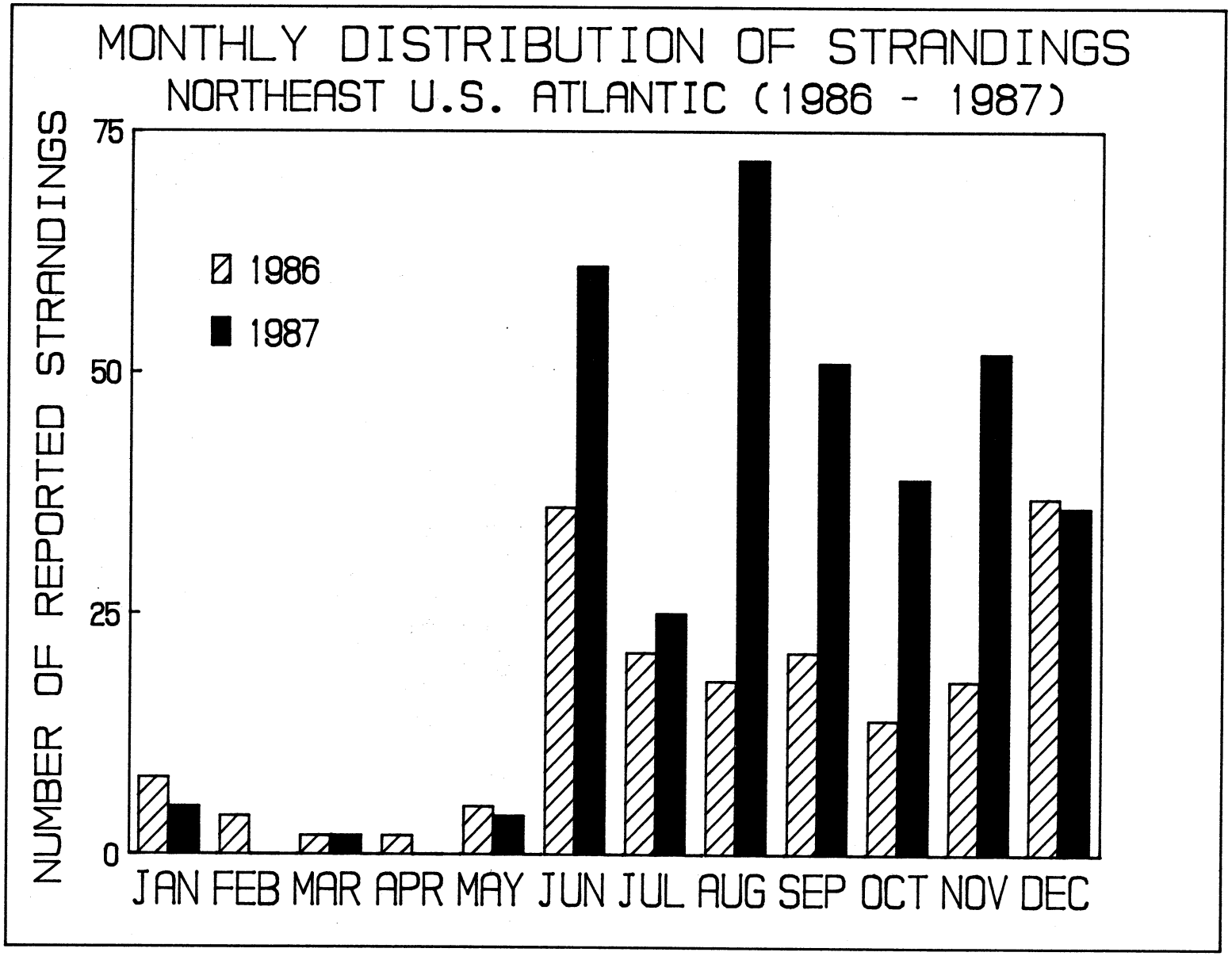


Figure 11. Monthly distribution of marine turtle strandings reported from the northeast U.S. Atlantic, 1986 and 1987. All species are combined.