U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

NOAA Technical Memorandum NWS SR 56*

MEMORABLE HURRICANES OF THE UNITED STATES SINCE 1873

SOUTHERN REGION HEADQUARTERS
SCIENTIFIC SERVICES DIVISION
FORT WORTH, TEXAS
April 1971

* Revision of ESSA WBTM SR 42

MEMORABLE HURRICANES OF THE UNITED STATES SINCE 1873

Arnold L. Sugg and Leonard G. Pardue
National Hurricane Center
National Weather Service, NOAA
Miami, Florida

and

Robert L. Carrodus
National Hurricane Research Laboratory
Environmental Research Laboratories, NOAA
Miami, Florida

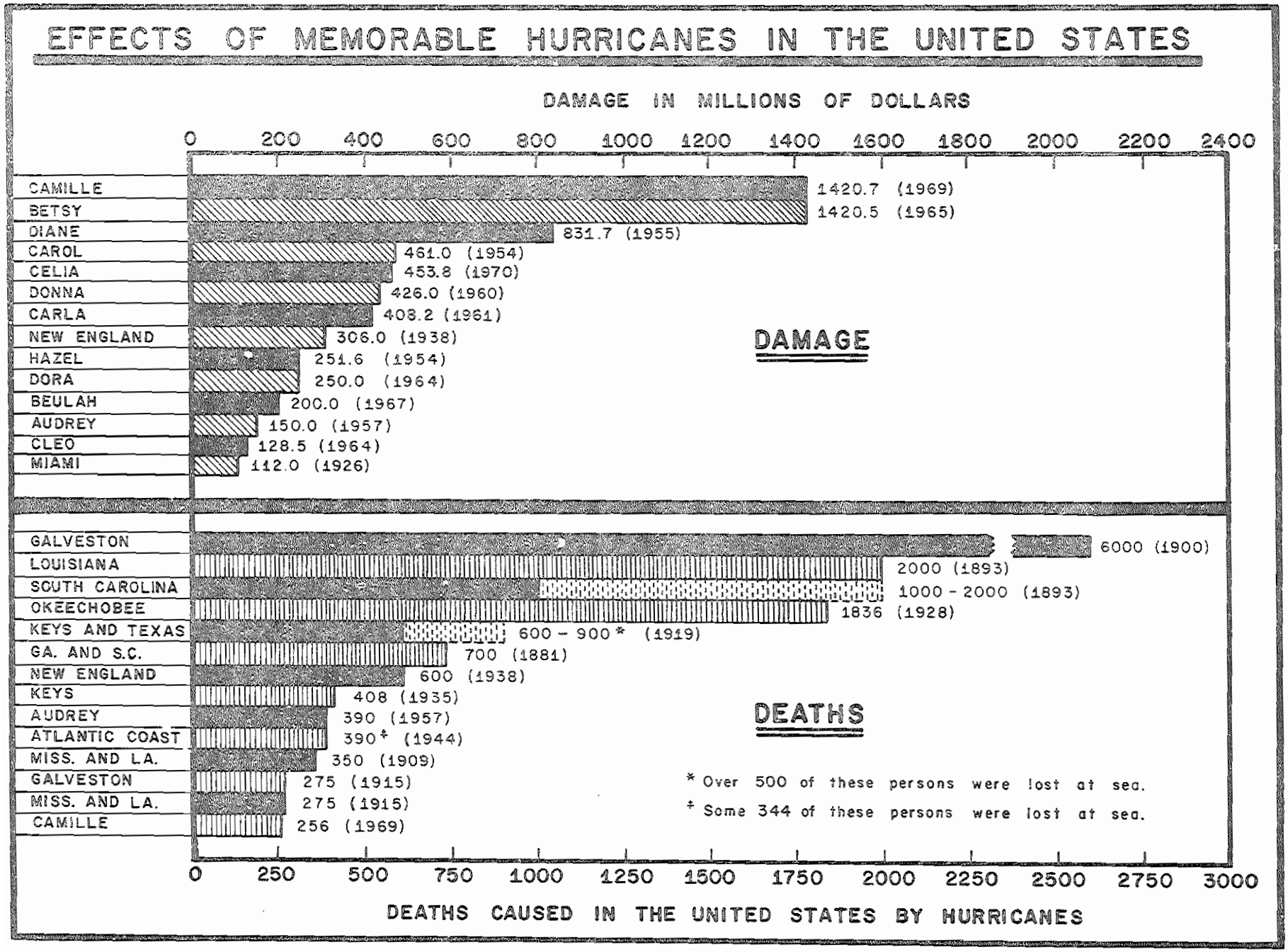
Whether a hurricane is notable and should be remembered depends upon many things. The selections in this publication are limited to those which have made landfall in the United States or have been near misses. Also, most of them were major, extreme, or great hurricanes; these adjectives usually refer to intensity as determined by the maximum wind or the sea-level pressure within the eye. Some hurricanes were "Great" while at sea but reached land with considerably diminished intensity. Connie was classified as "Great" at sea but is classified here as "Major" because of its diminished intensity as it reached the coast. On the other hand, some which did not have particularly low pressures or high winds were devastating because of flooding. Most notable in this category was Diane 1955. For these reasons the criteria used to determine the memorable hurricanes of this century were not rigid and have been omitted here.

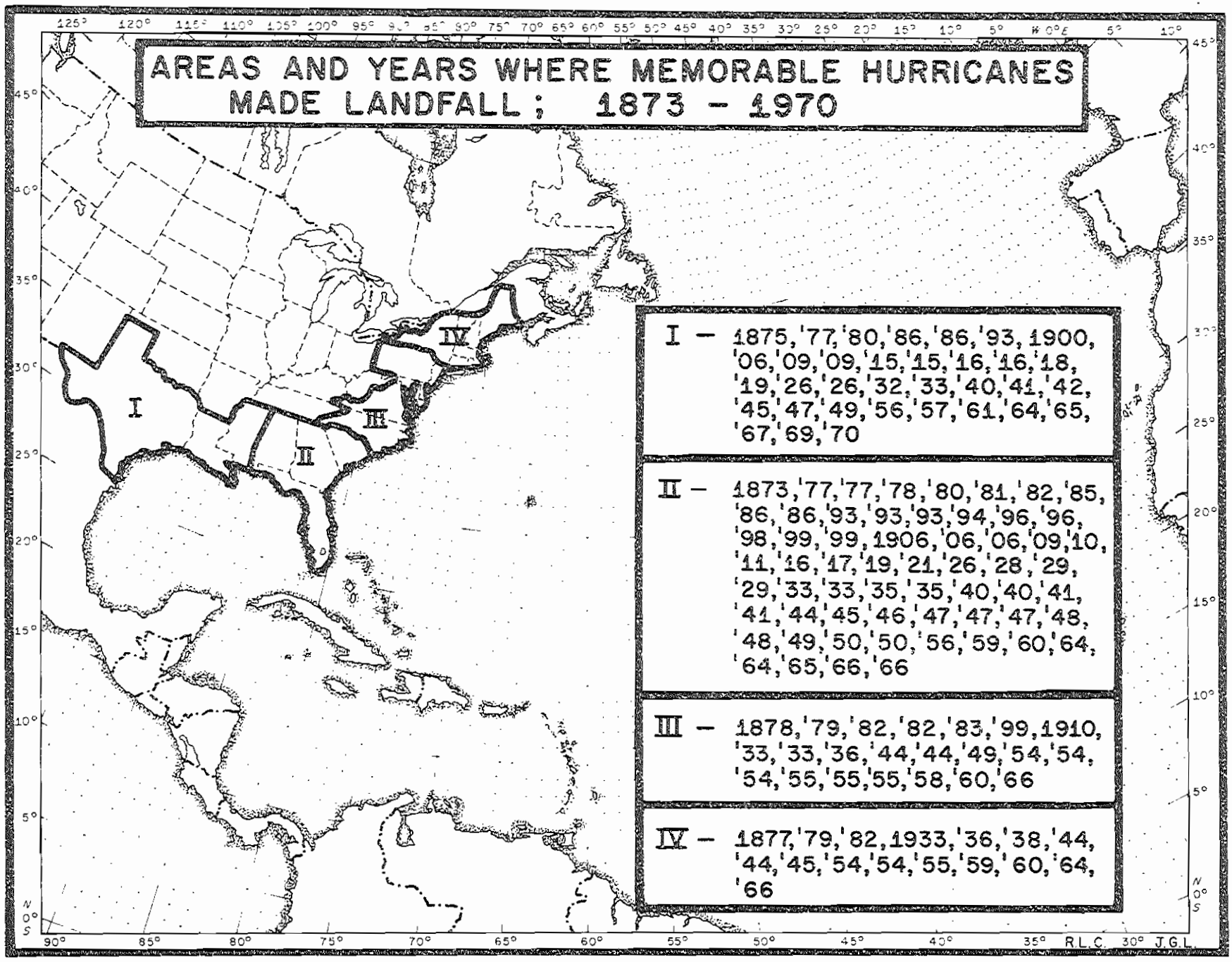
The data on each map should be considered extremes. Needless to say, some are subject to contradiction depending upon what source or reference one consults. For the most part, the data were drawn from the Monthly Weather Review articles; from the Publication "Hurricanes and Tropical Storms in the Gulf of Mexico," Weather Service Forecast Office, New Orleans; Atlantic Hurricanes by Dunn and Miller; and Hurricanes by Tannehill. Tracks through 1963 are from Weather Bureau Technical Paper No. 55, by Cry, and from Monthly Weather Review thereafter, but the varying intensities along the tracks have been omitted. Revision of the track and data of the hurricane of September 22-October 4, 1929, was made possible through a study by Mr. Pierce S. Rosenberg, Atlantic Underseas Test and Evaluation Center, West Palm Beach, Florida. Additional information on tides in the Great Atlantic Hurricane of 1944 was supplied by Mr. R. E. Lynde, Weather Service Forecast Office, Boston, Massachusetts, and Mr. George Moore, National Ocean Survey, Rockville, Maryland.

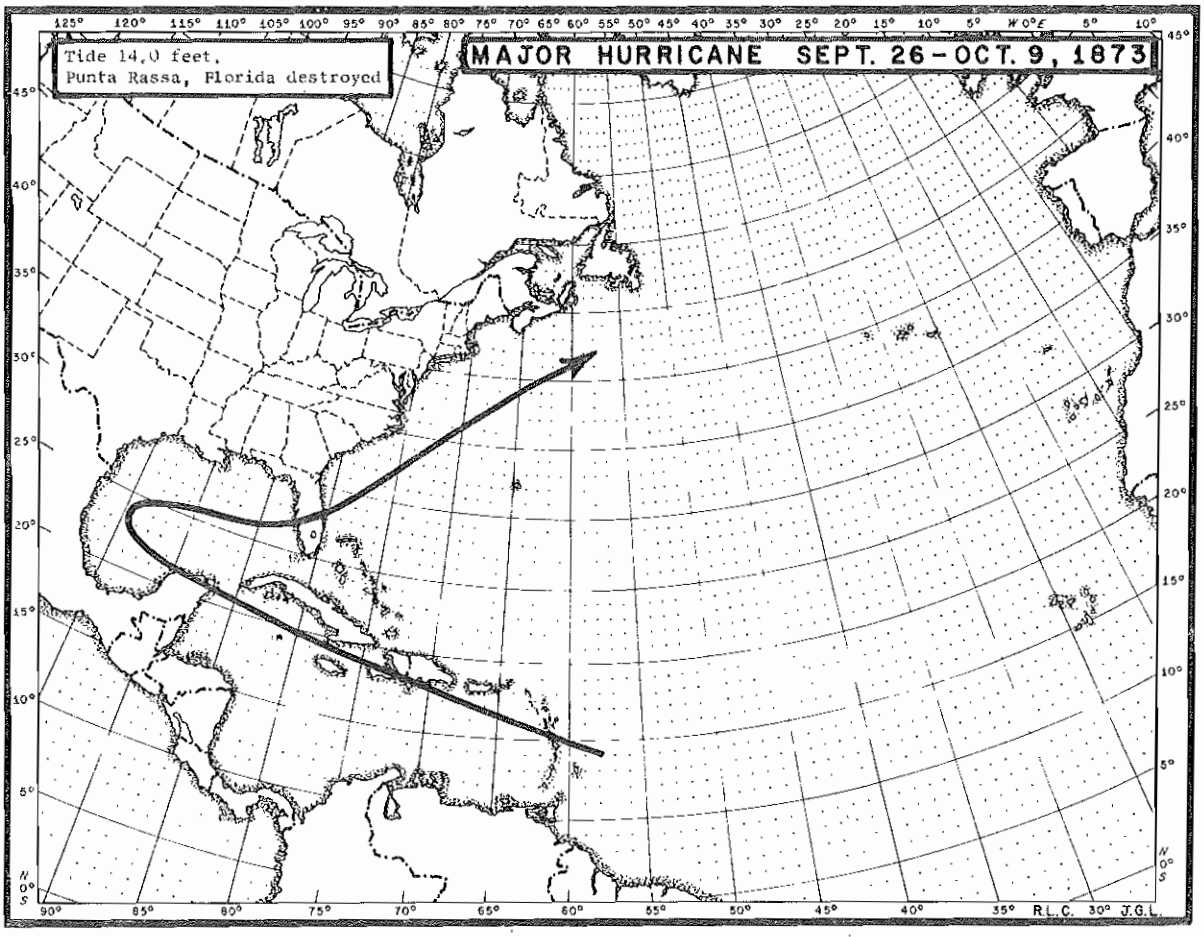
Table 1, listing the greatest United States hurricanes of all times, has been revised in this edition in accordance with figures supplied by NOAA's National Climatic Center. Dollar estimates have not been adjusted for inflation. It is also quite obvious that damage figures have increased and will continue to do so as the population and industry increase, especially along the coastal areas.

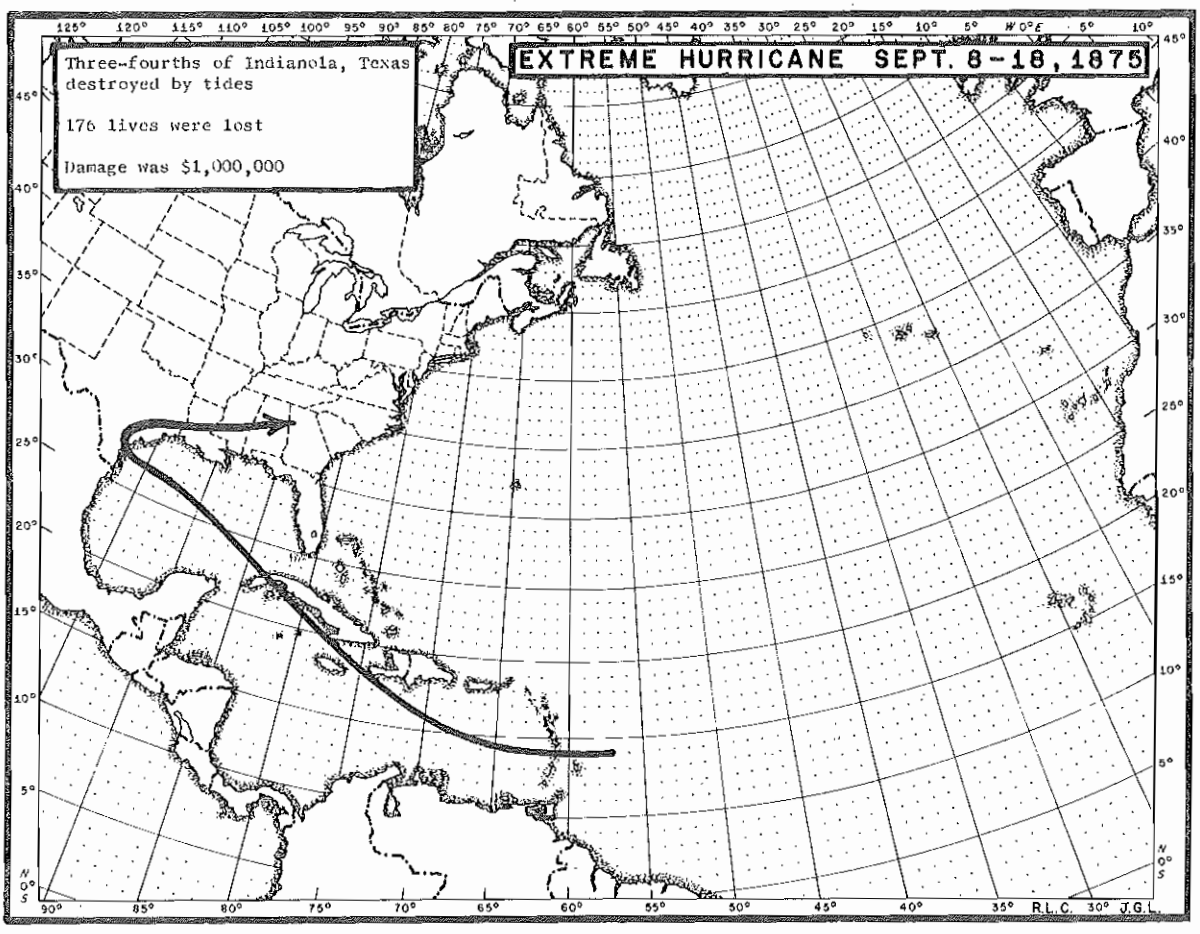
It is hoped that this paper will serve as a ready reference, as a climatological aid in forecasting, for speeches, and for preparedness conferences.

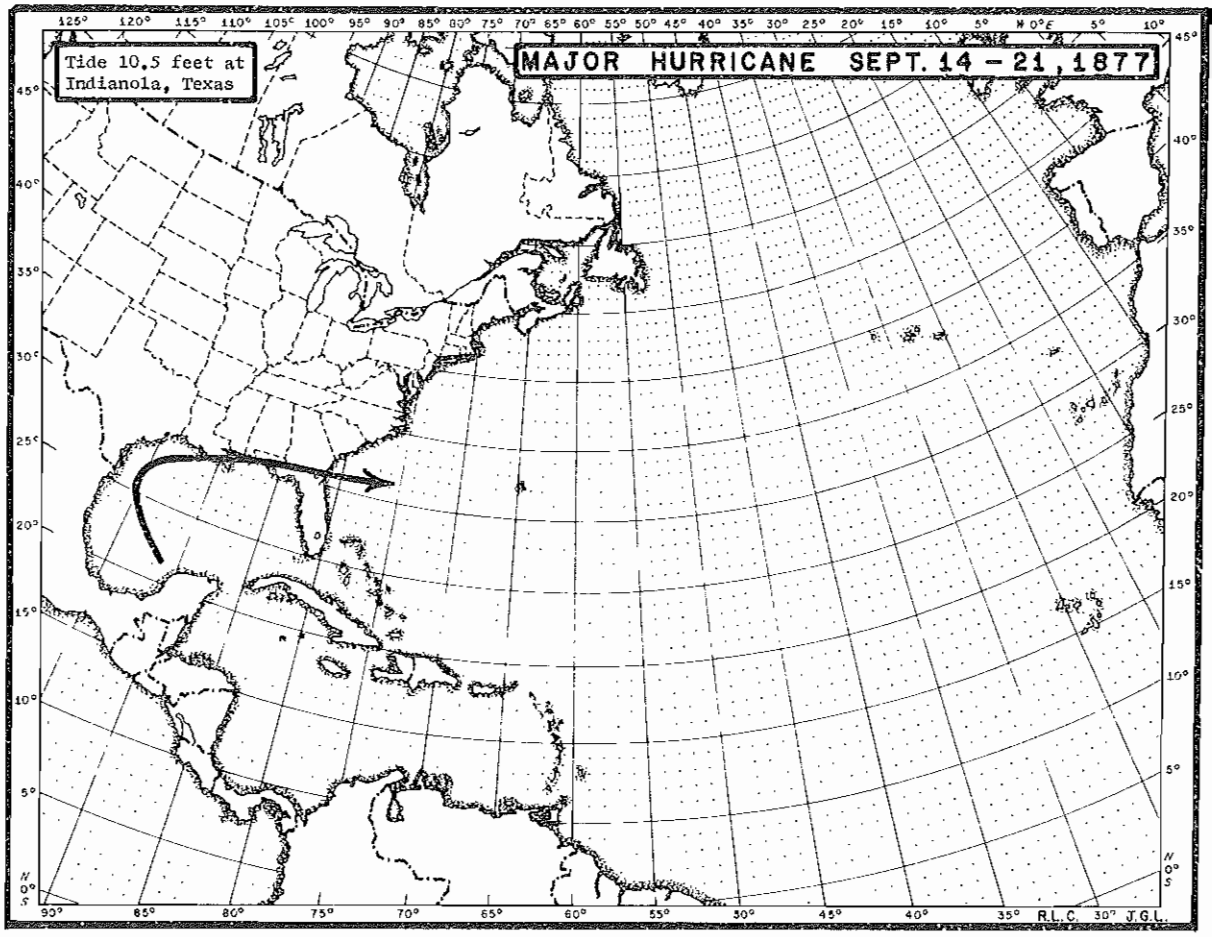
We are grateful to Mrs. Lilias Wilson, Miss Wendy Searle, and Ashby Andrews, National Hurricane Center, for the typing and clerical help, and to John Lundblad and Glenn Frye, University of Miami student trainees at the National Hurricane Research Laboratory, for assistance with drafting.

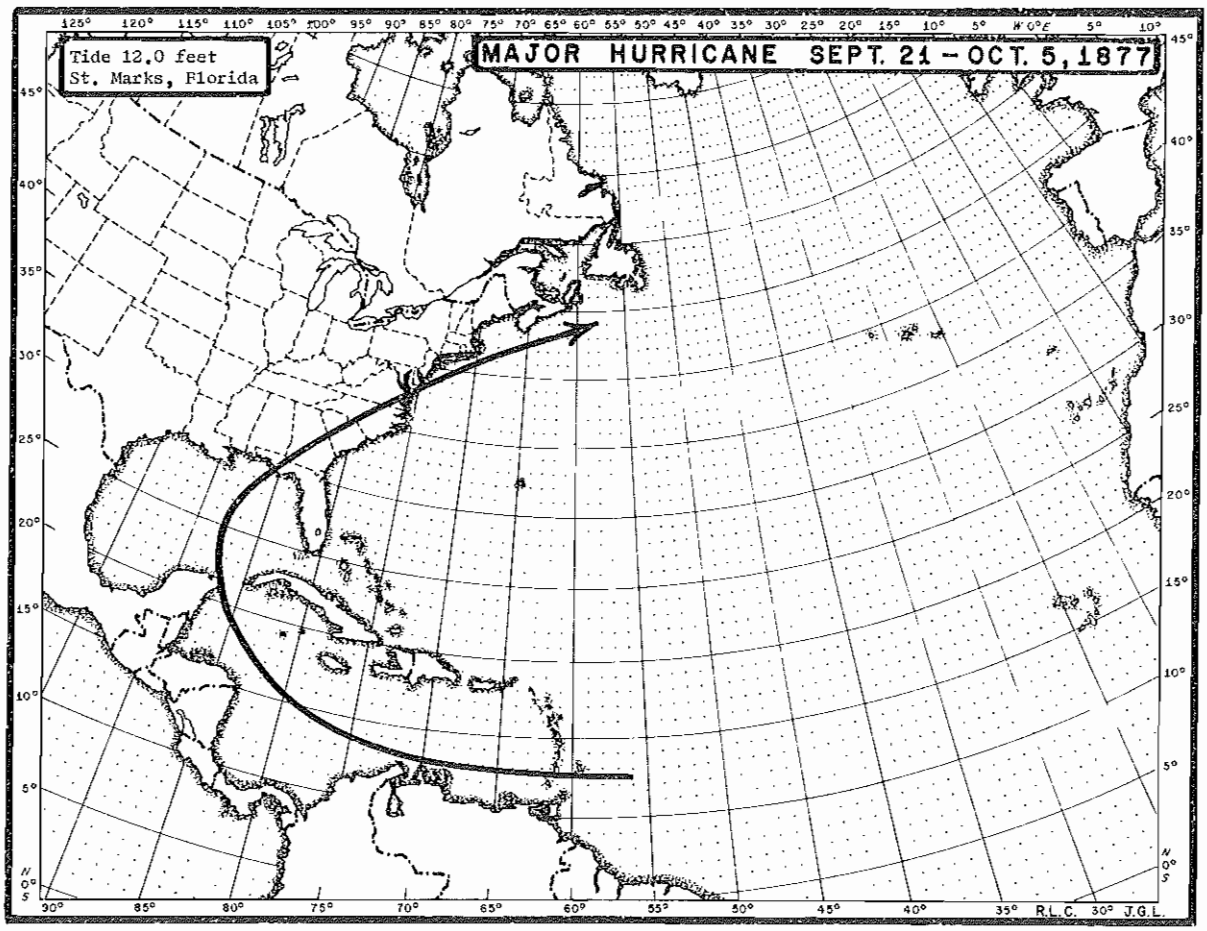

EFFECTS OF MEMORABLE HURRICANES IN THE UNITED STATES
DAMAGE IN MILLIONS OF DOLLARS
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400
CAMILLE 1420.7 (1969)
BETSY 1420.5 (1965)
DIANE 831.7 (1955)
CAROL 461.0 (1954)
CELIA 453.8 (1970)
DONNA 426.0 (1960)
CARLA 408.2 (1961)
NEW ENGLAND 306.0 (1938)
HAZEL 254.6 (1954)
DORA 250.0 (1964)
BEULAH 200.0 (1967)
AUDREY 150.0 (1957)
CLEO 128.5 (1964)
MIAMI 112.0 (1926)
DAMAGE
GALVESTON 6000 (1900)
LOUISIANA 2000 (1893)
SOUTH CAROLINA 1000 - 2000 (1893)
OKEECHOBEE 1836 (1928)
KEYS AND TEXAS 600 - 900* (1919)
GA. AND S.C. 700 (1881)
NEW ENGLAND 600 (1938)
KEYS 408 (1935)
AUDREY 390 (1957)
ATLANTIC COAST 390‡ (1944)
MISS. AND LA. 350 (1909)
GALVESTON 275 (1915)
MISS. AND LA. 275 (1915)
CAMILLE 256 (1969)
DEATHS
* Over 500 of these persons were lost at sea.
‡ Some 344 of these persons were lost at sea.
0 250 500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000
DEATHS CAUSED IN THE UNITED STATES BY HURRICANES

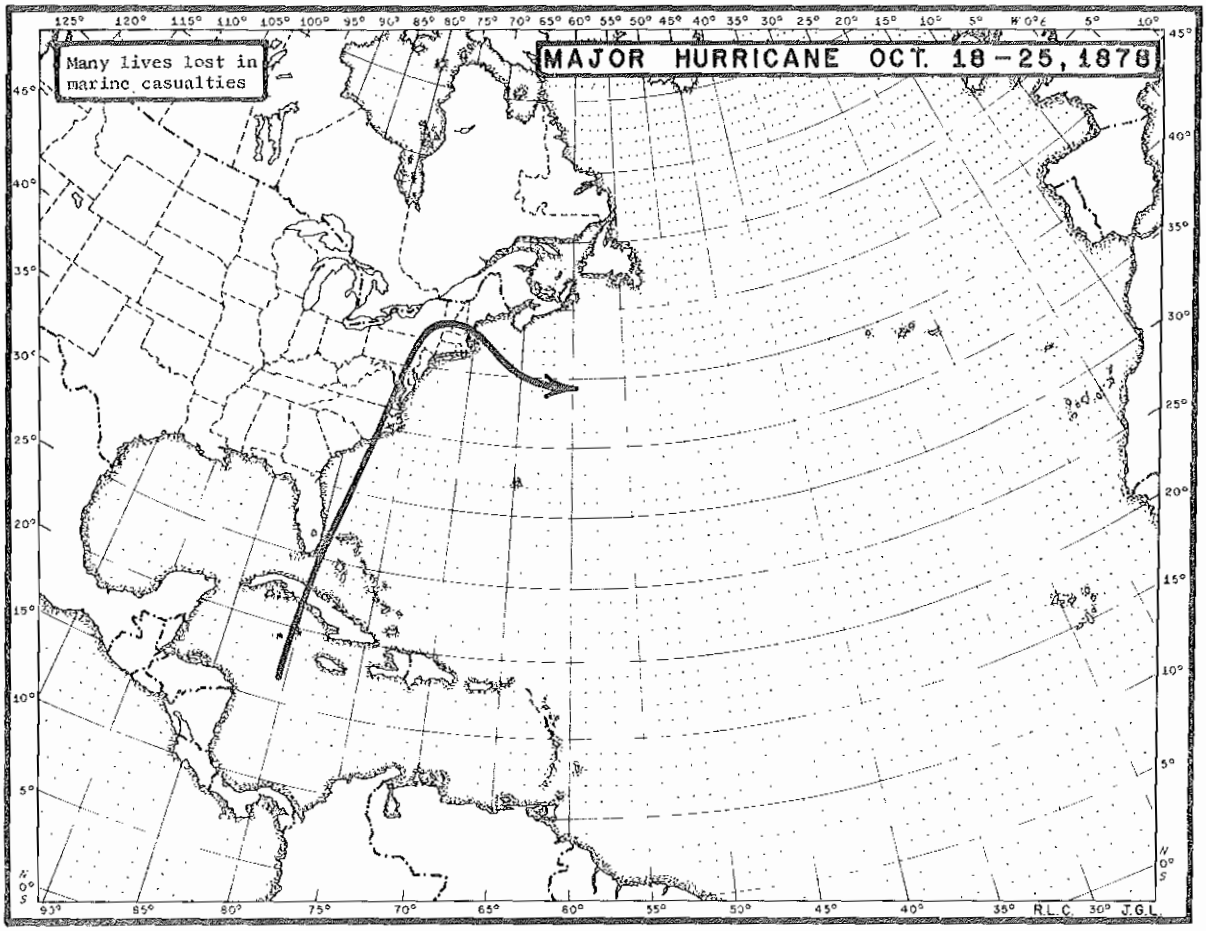

AREAS AND YEARS WHERE MEMORABLE HURRICANES MADE LANDFALL; 1873 - 1970
I
II
III
IV
I – 1875,'77,'80,'86,'86,'93,1900,'06,'09,'09,'15,'15,'16,'16,'18,'19,'26,'26,'32,'33,'40,'41,'42,'45,'47,'49,'56,'57,'61,'64,'65,'67,'69,'70
II – 1873,'77,'77,'78,'80,'81,'82,'85,'86,'86,'93,'93,'93,'94,'96,'96,'98,'99,'99,1906,'06,'06,'09,'10,'11,'16,'17,'19,'21,'26,'28,'29,'29,'33,'33,'35,'35,'40,'40,'41,'41,'44,'45,'46,'47,'47,'47,'48,'48,'49,'50,'50,'56,'59,'60,'64,'64,'65,'66,'66
III – 1878,'79,'82,'82,'83,'99,1910,'33,'33,'36,'44,'44,'49,'54,'54,'54,'55,'55,'55,'58,'60,'66
IV – 1877,'79,'82,1933,'36,'38,'44,'44,'45,'54,'54,'55,'59,'60,'64,'66
R.L.C. J.G.L.

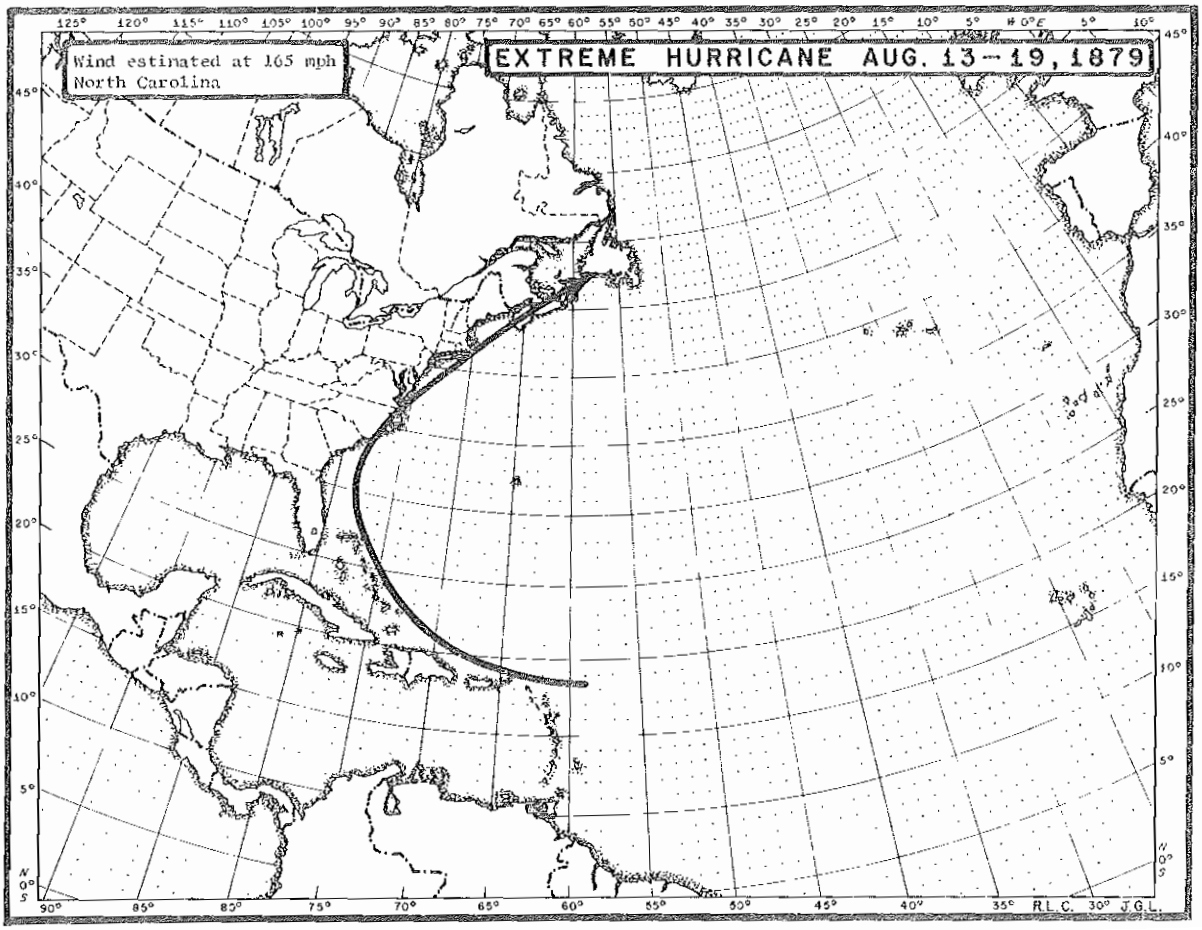

MAJOR HURRICANE SEPT. 26 - OCT. 9, 1873
Tide 14.0 feet.
Punta Rassa, Florida destroyed
R.L.C. 30° J.G.L.

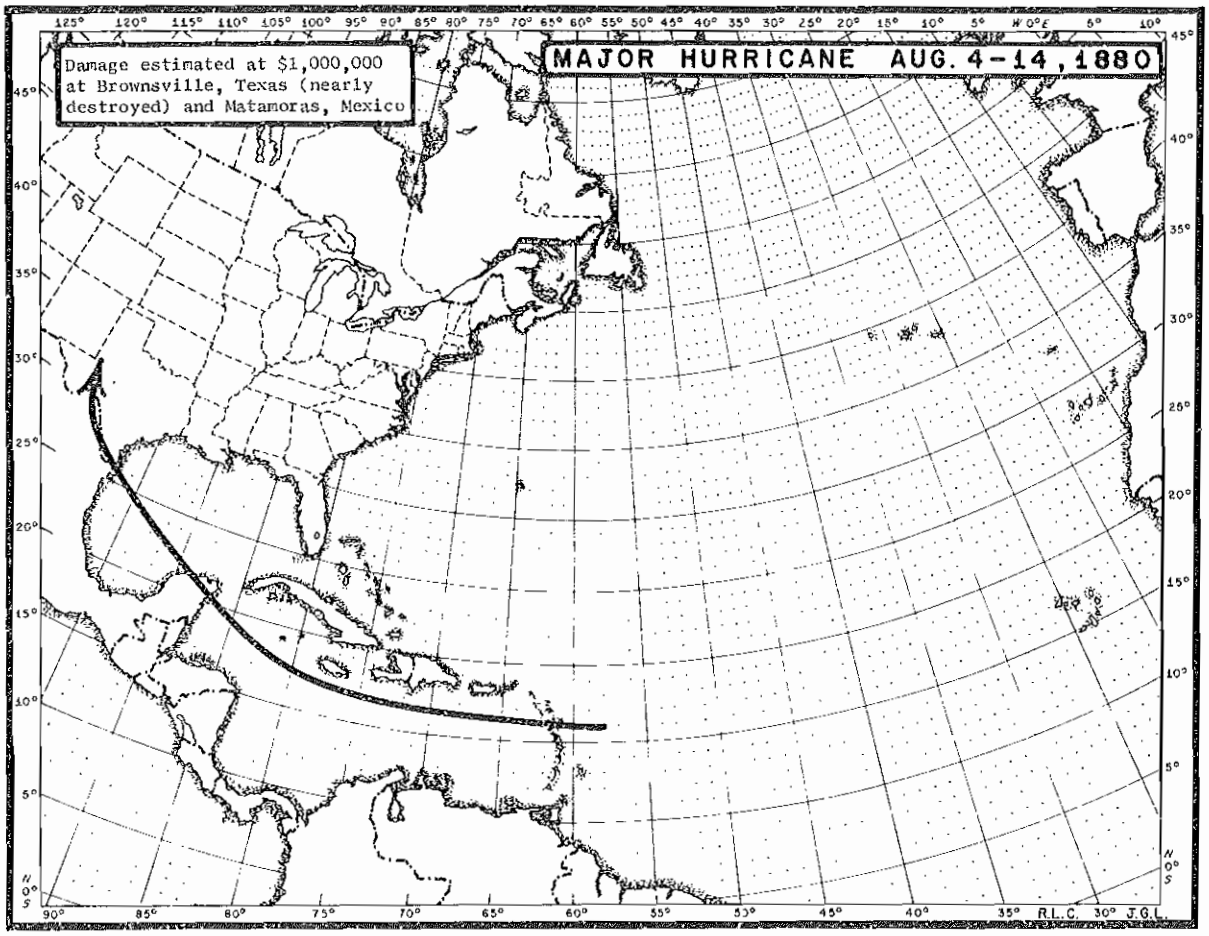

EXTREME HURRICANE SEPT. 8 - 18, 1875
Three-fourths of Indianola, Texas destroyed by tides
176 lives were lost
Damage was $1,000,000
R.L.C. 30° J.G.L.

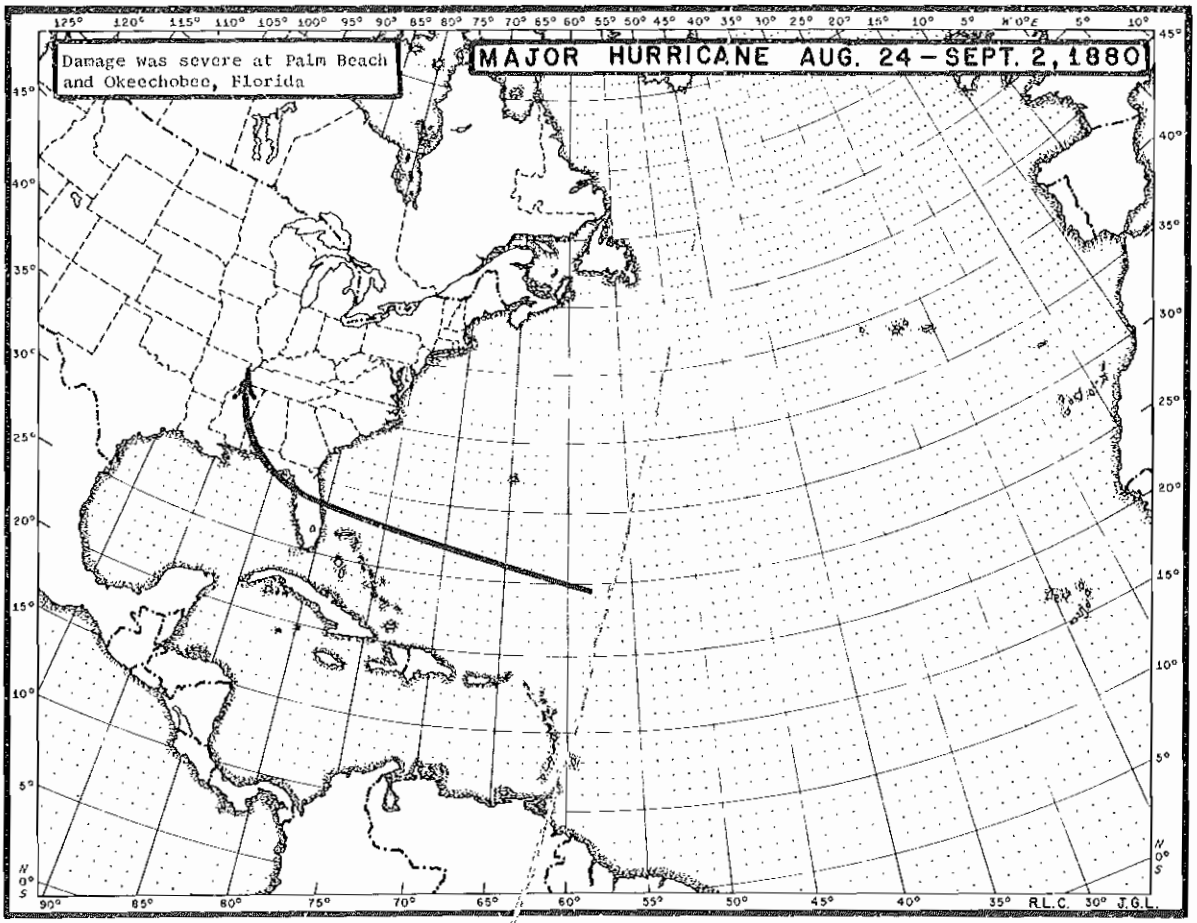

Tide 10.5 feet at
Indianola, Texas
MAJOR HURRICANE SEPT. 14 - 21, 1877
R.L.C.
J.G.L.

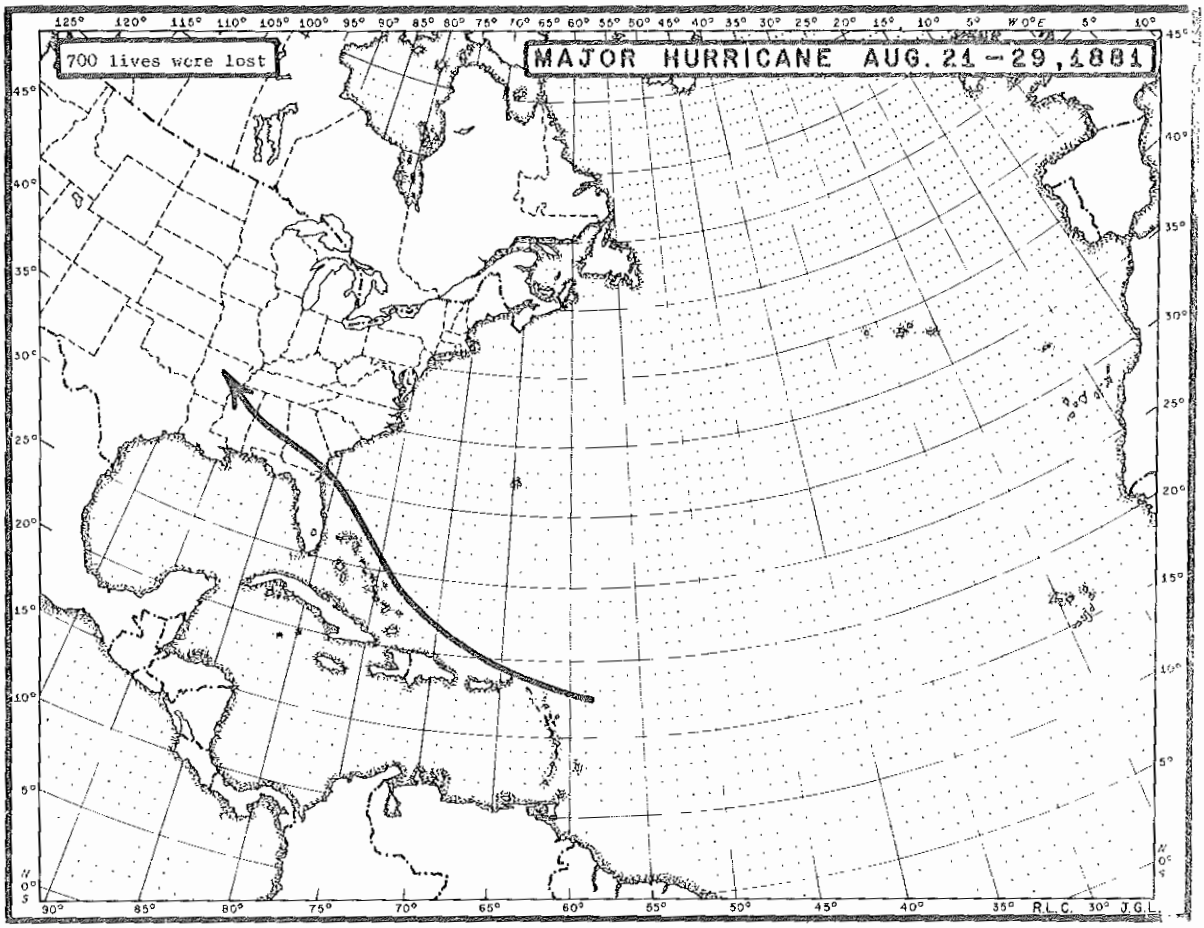

Tide 12.0 feet
St. Marks, Florida
MAJOR HURRICANE SEPT. 21 - OCT. 5, 1877
R.L.C.
J.G.L.

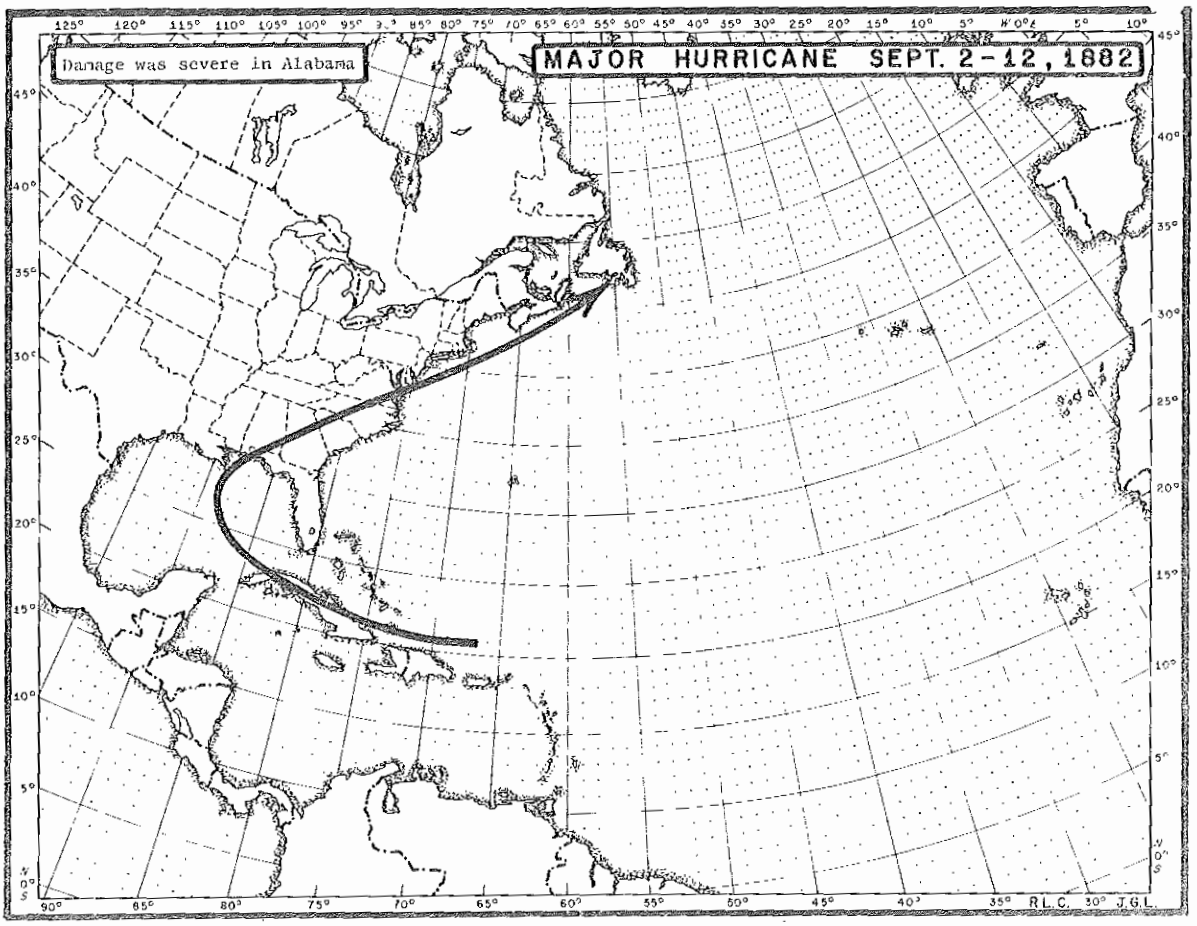

MAJOR HURRICANE OCT. 18 – 25, 1878
Many lives lost in marine casualties
R.L.C.
J.G.L.

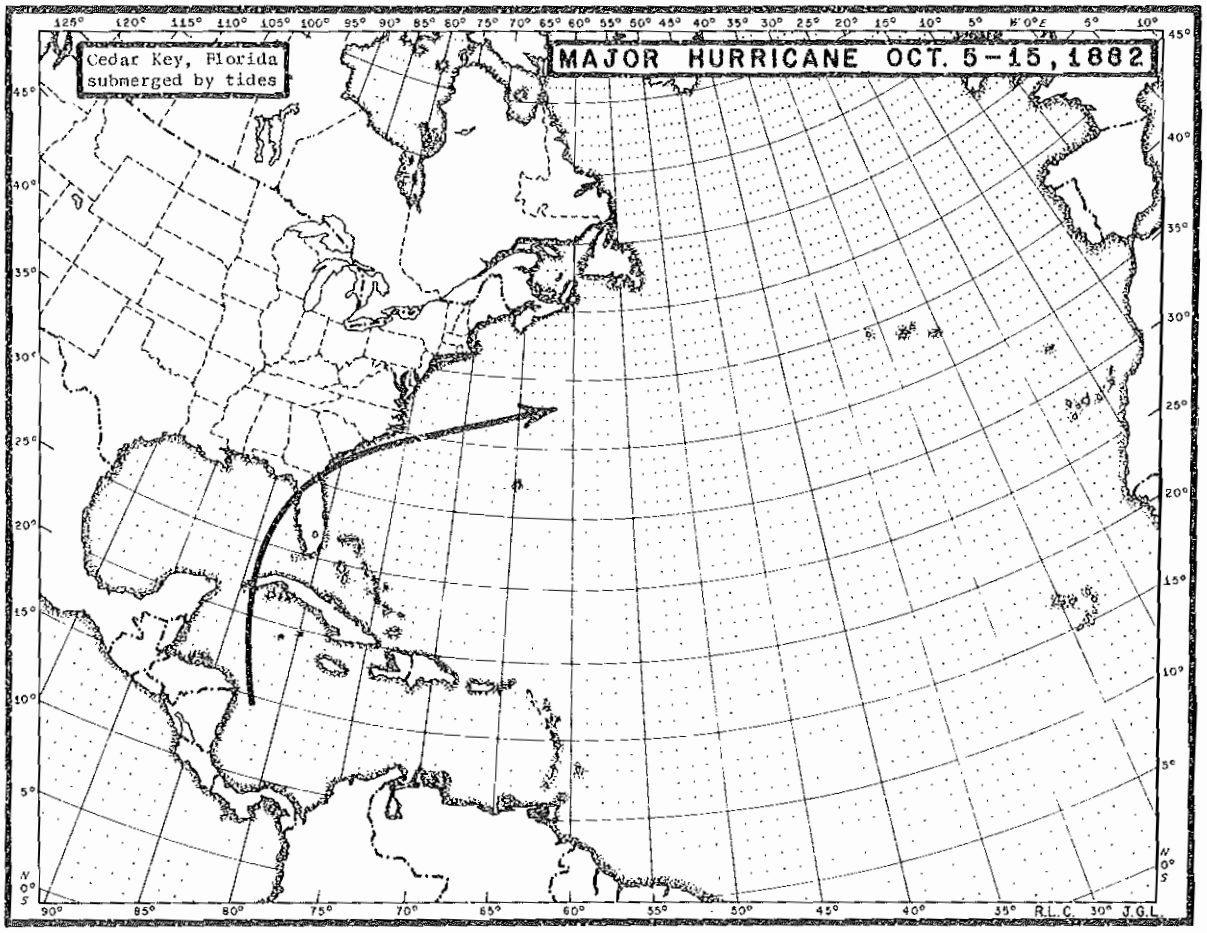

EXTREME HURRICANE AUG. 13 – 19, 1879
Wind estimated at 165 mph North Carolina
R.L.C.
J.G.L.

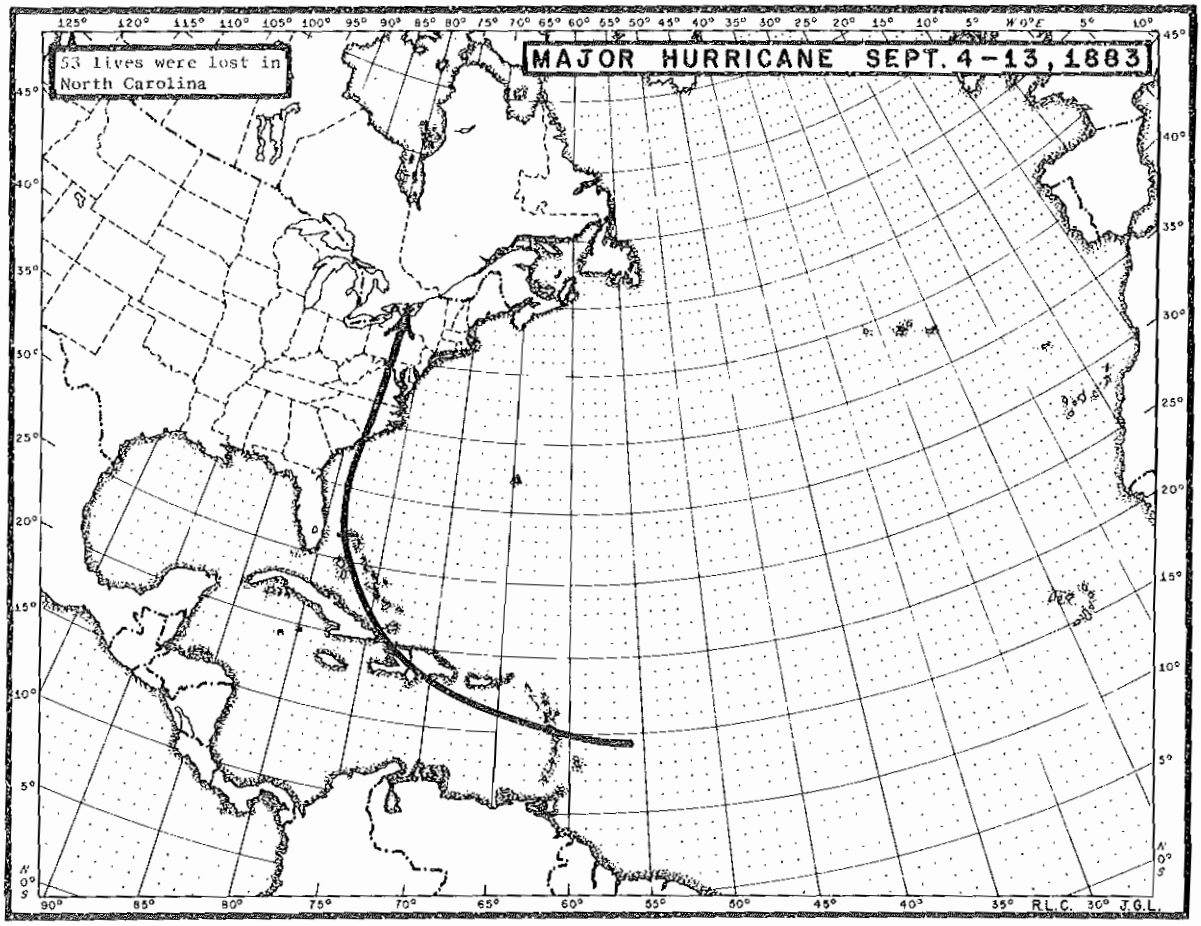

MAJOR HURRICANE AUG. 4-14, 1880
Damage estimated at $1,000,000 at Brownsville, Texas (nearly destroyed) and Matamoras, Mexico
R.L.C.
J.G.L.

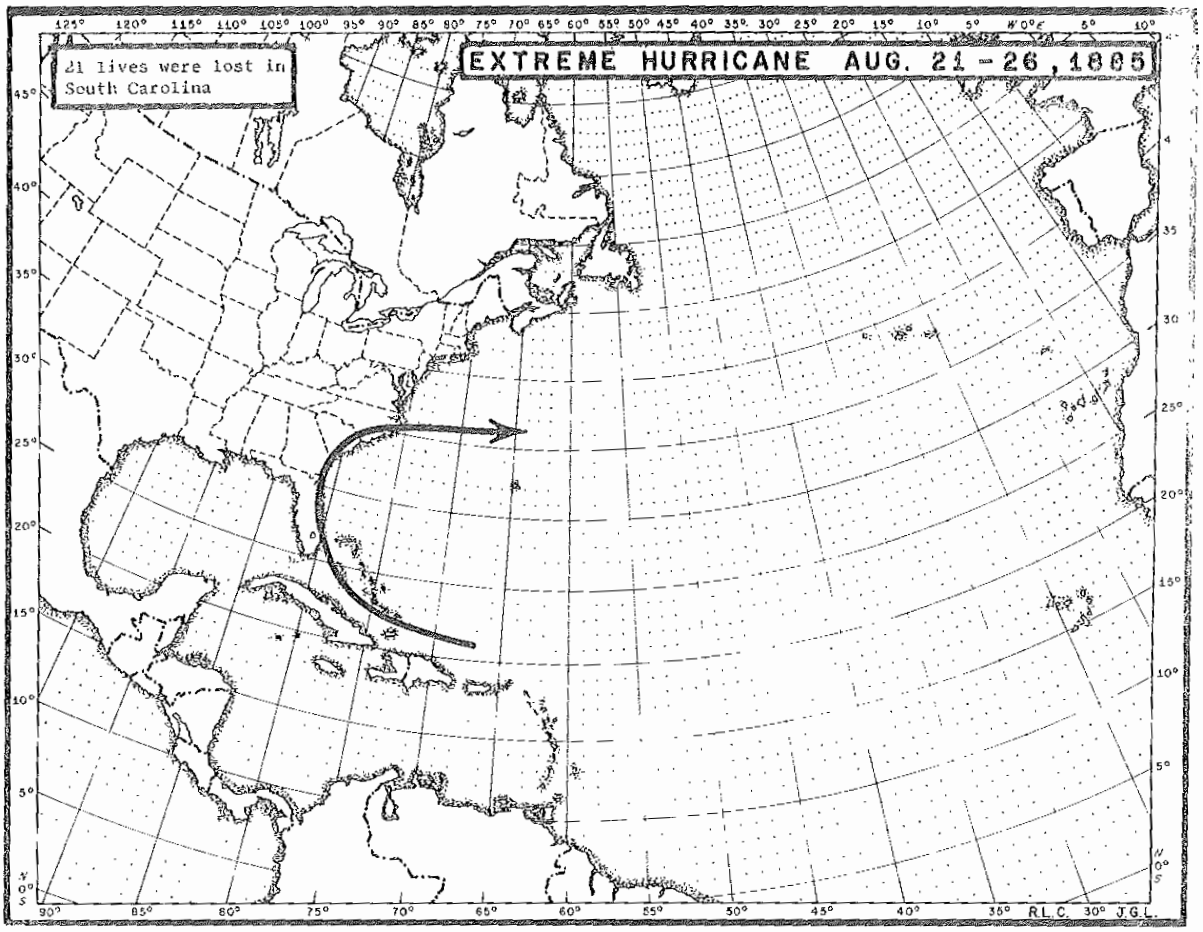

MAJOR HURRICANE AUG. 24-SEPT. 2, 1880
Damage was severe at Palm Beach and Okeechobee, Florida
R.L.C.
J.G.L.

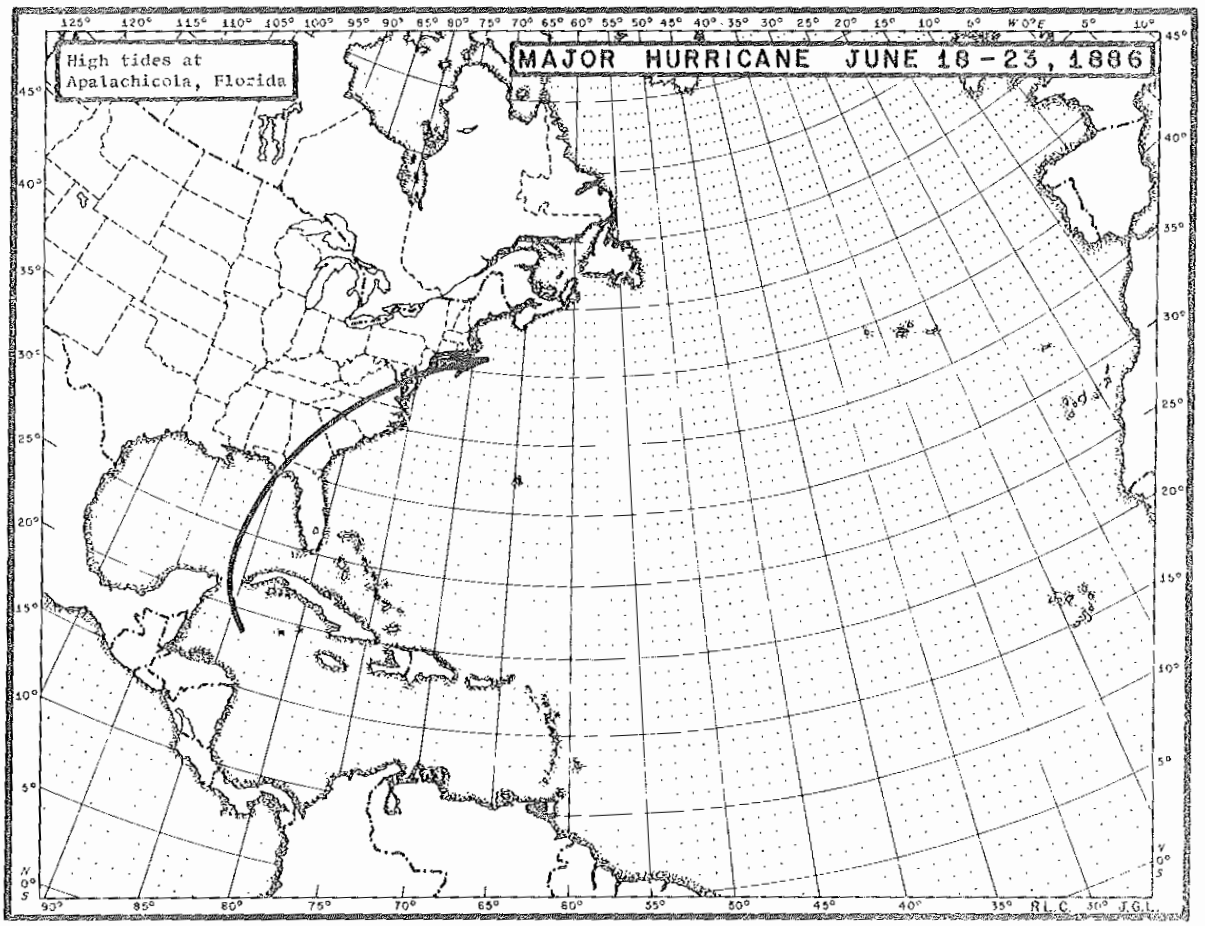

700 lives were lost
MAJOR HURRICANE AUG. 21 – 29, 1881
R.L.C.
J.G.L.

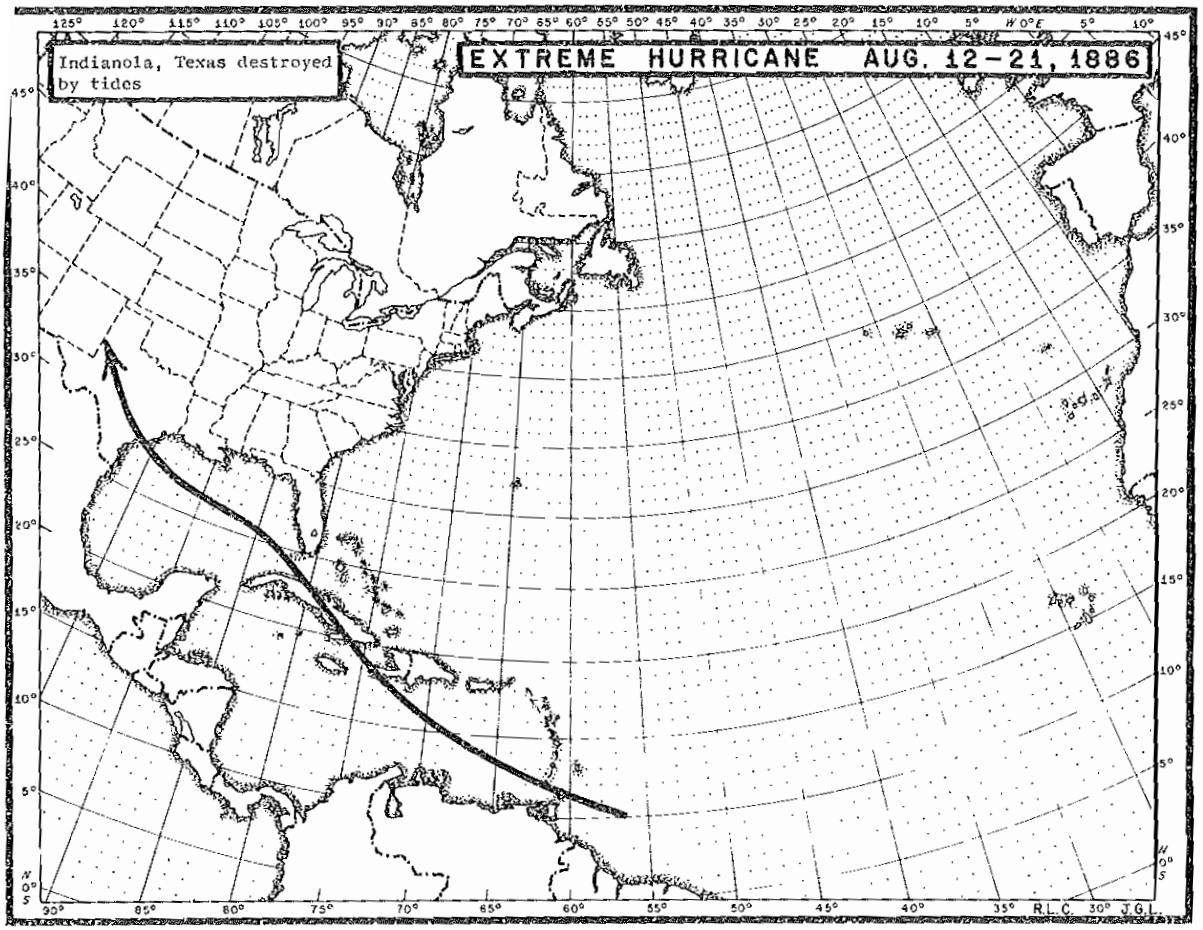

Damage was severe in Alabama
MAJOR HURRICANE SEPT. 2 – 12, 1882
R.L.C.
J.G.L.

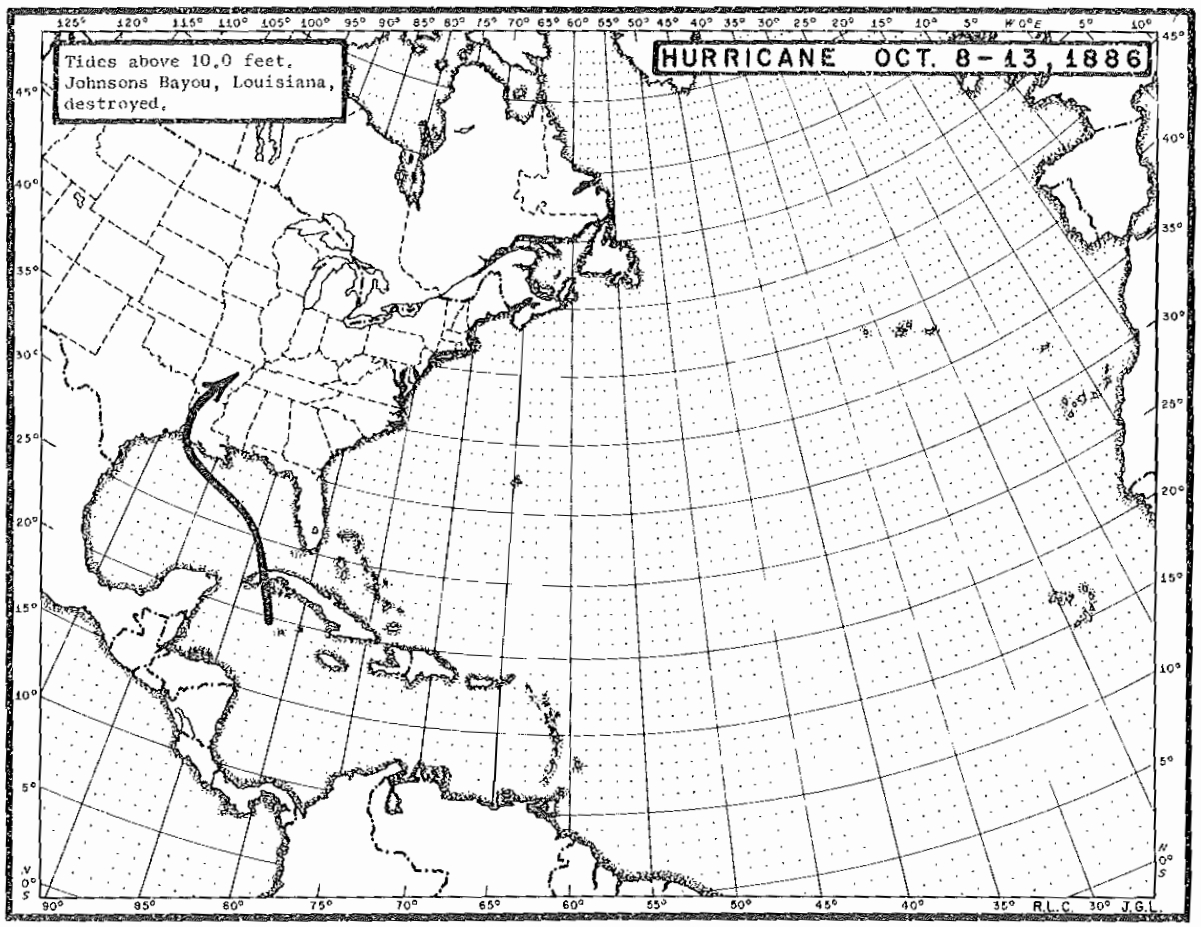

Cedar Key, Florida submerged by tides
MAJOR HURRICANE OCT. 5–15, 1882
R.L.C. 30° J.G.L.

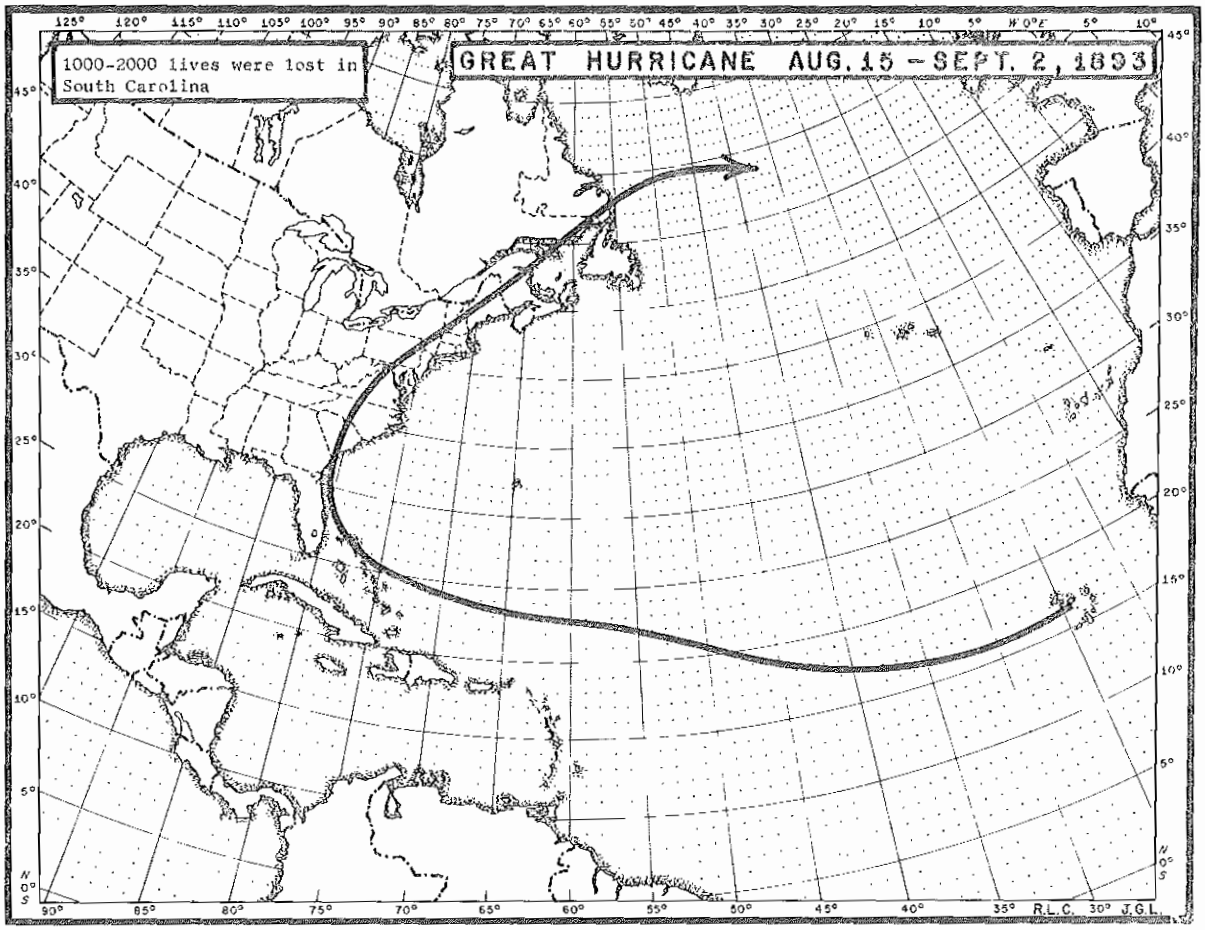

53 lives were lost in North Carolina
MAJOR HURRICANE SEPT. 4–13, 1883
R.L.C. 30° J.G.L.

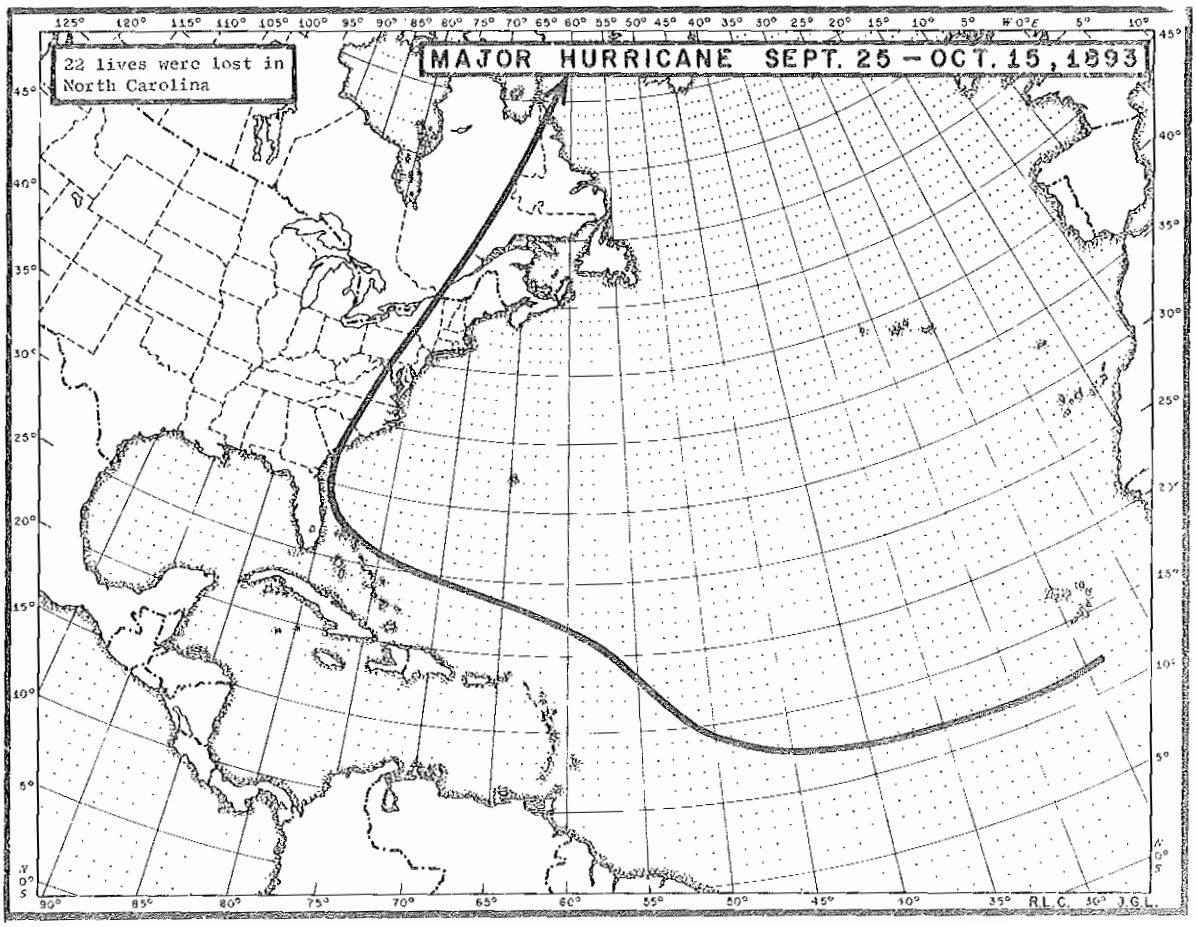

EXTREME HURRICANE AUG. 21 - 26, 1885
21 lives were lost in South Carolina
R.L.C. 30° J.G.L.

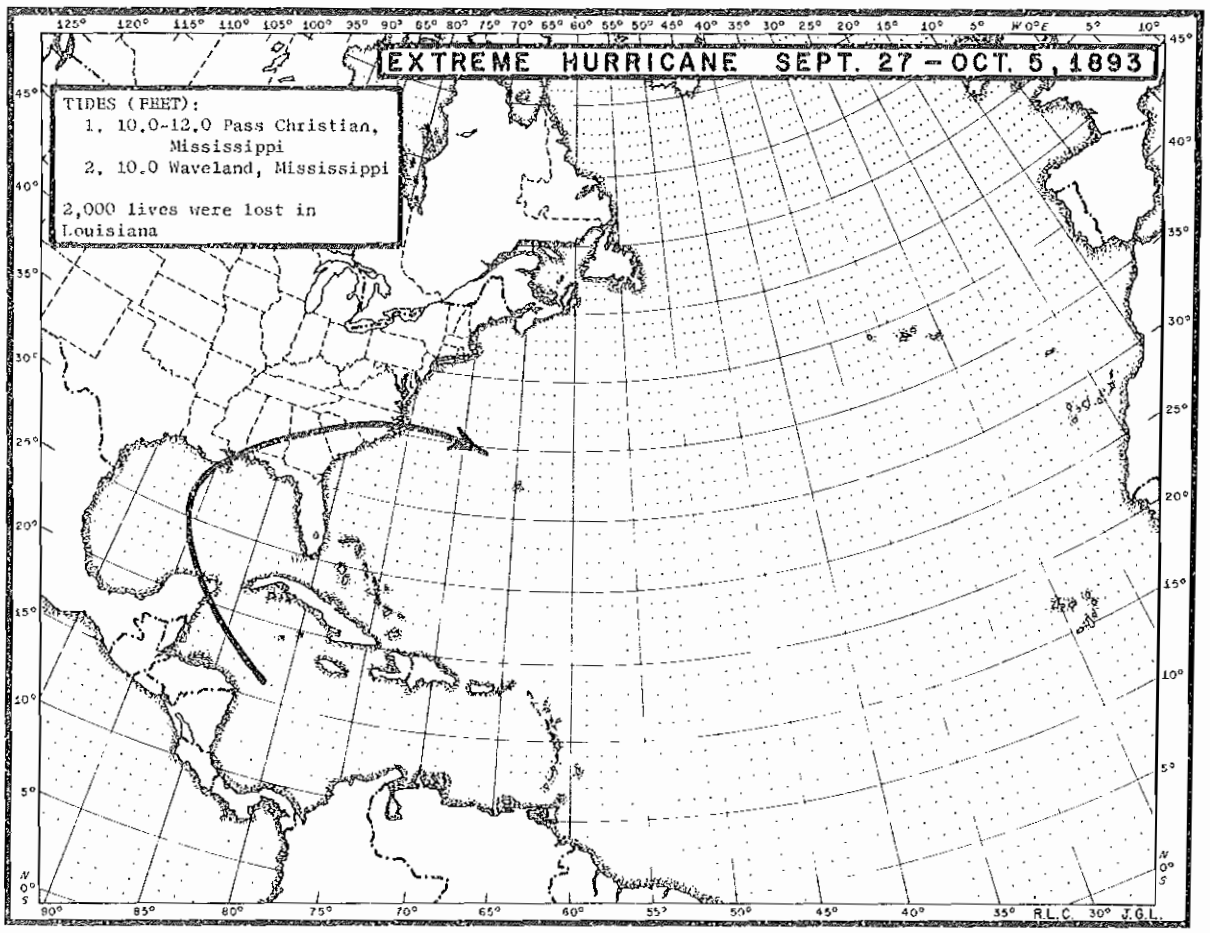

MAJOR HURRICANE JUNE 18 - 23, 1886
High tides at Apalachicola, Florida
R.L.C. 30° J.G.L.

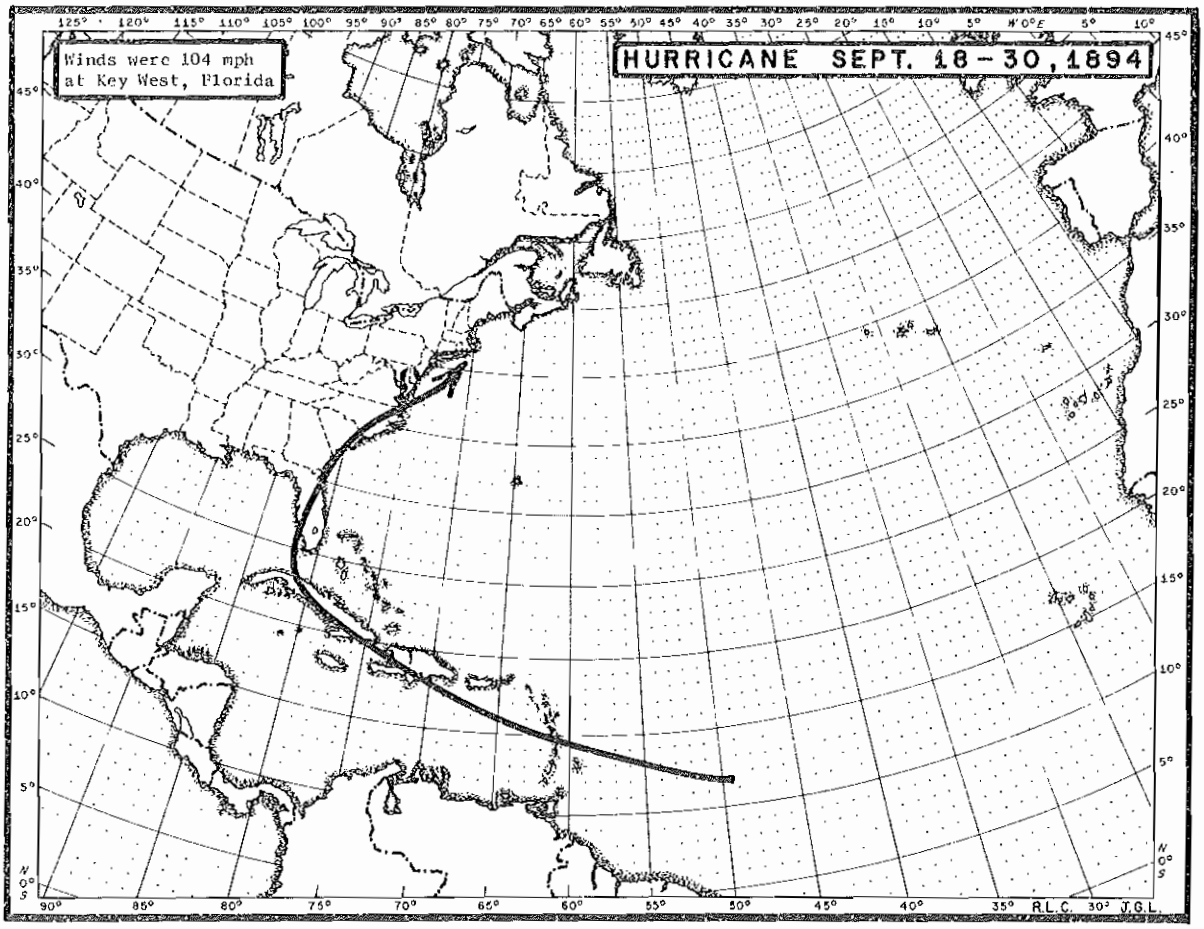

EXTREME HURRICANE AUG. 12-21, 1886
Indianola, Texas destroyed by tides
R.L.C.
J.G.L.

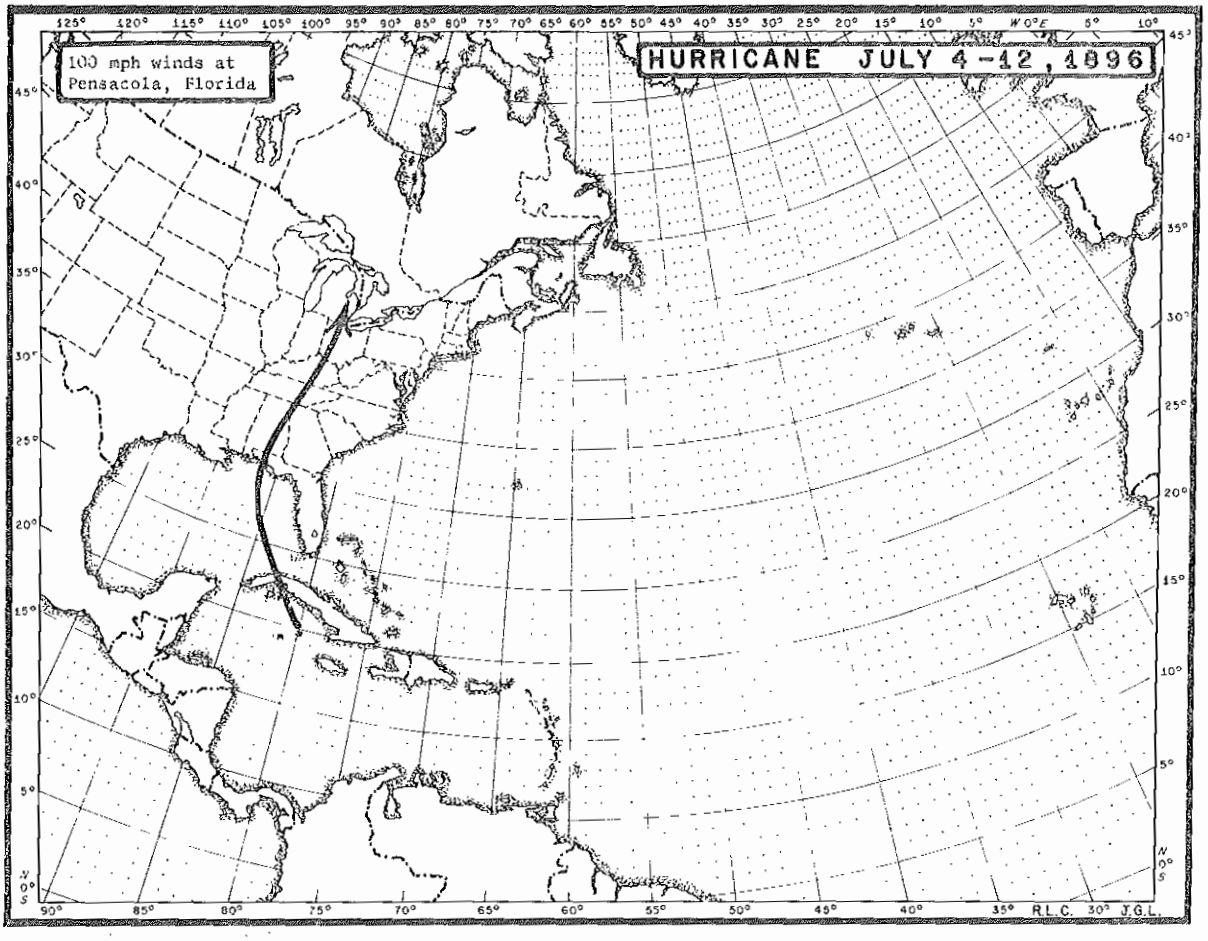

HURRICANE OCT. 8-13, 1886
Tides above 10.0 feet. Johnsons Bayou, Louisiana, destroyed.
R.L.C.
J.G.L.

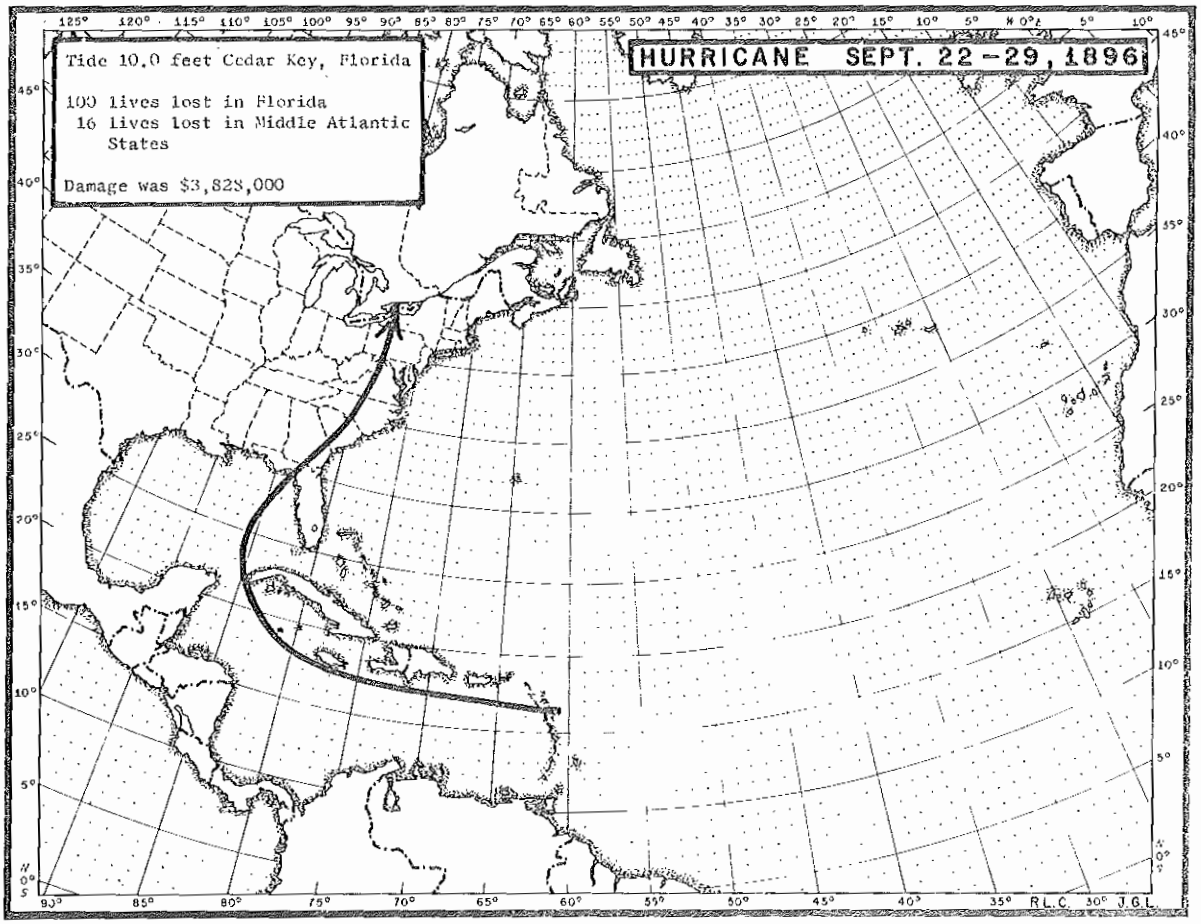

GREAT HURRICANE AUG. 15 – SEPT. 2, 1893
1000-2000 lives were lost in South Carolina
R.L.C.
J.G.L.

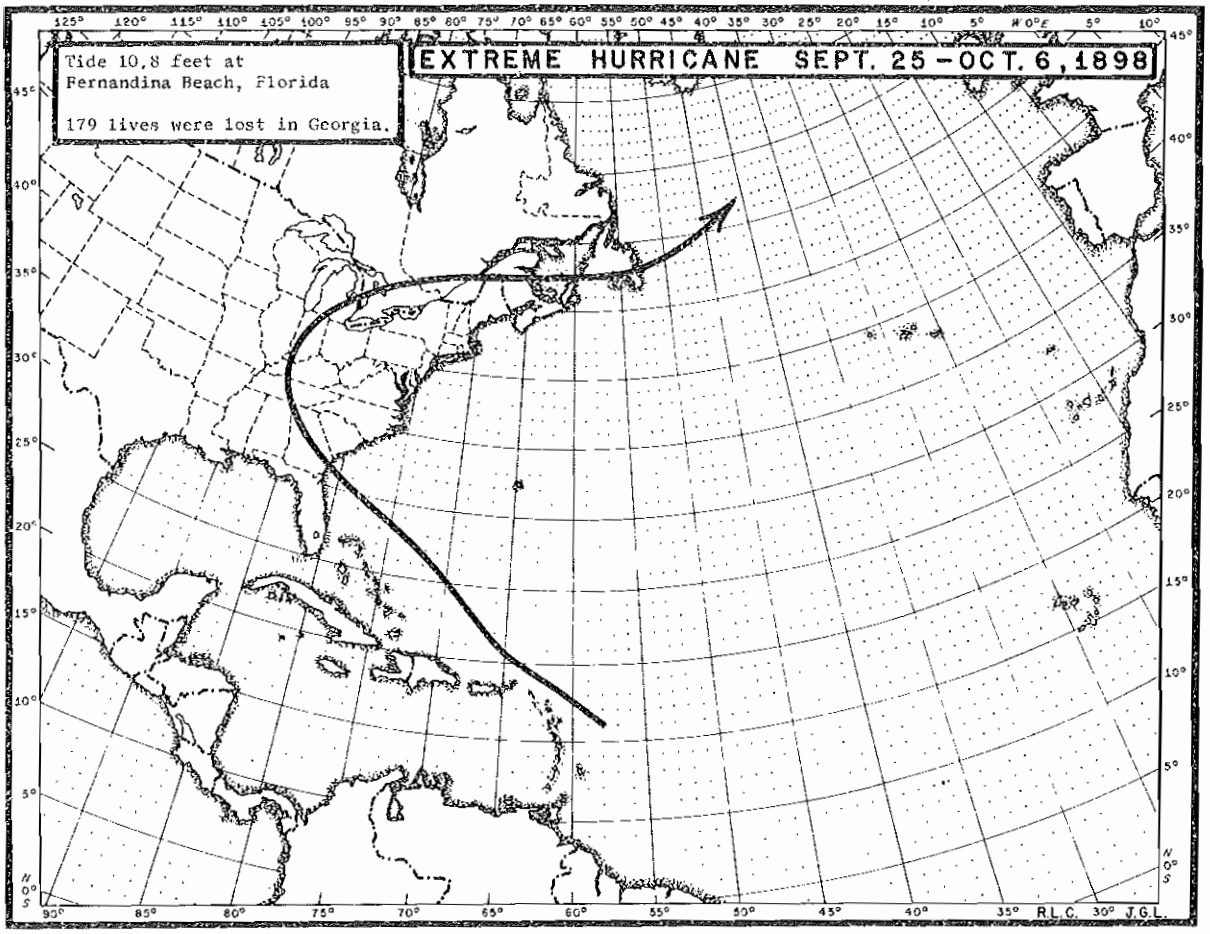

MAJOR HURRICANE SEPT. 25 – OCT. 15, 1893
22 lives were lost in North Carolina
R.L.C.
J.G.L.

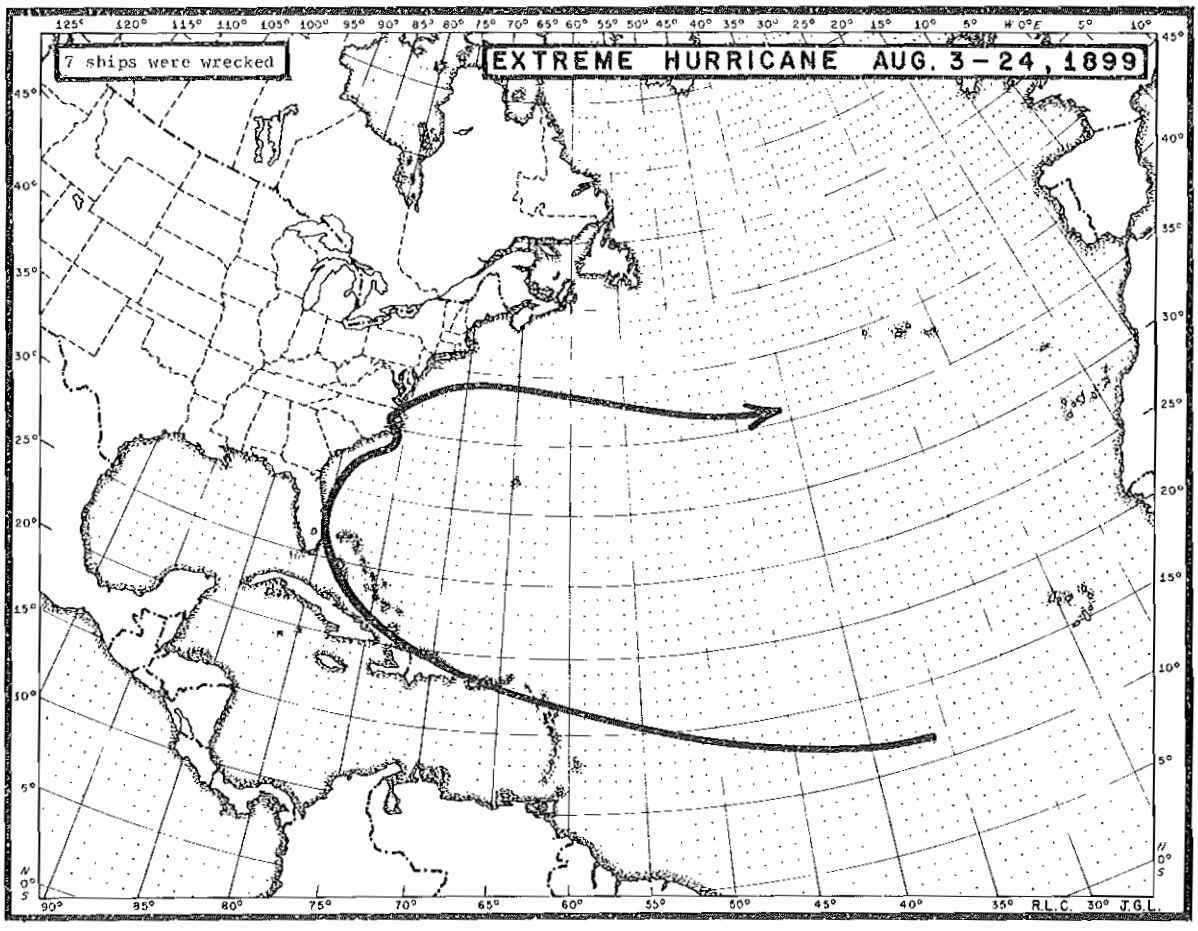

EXTREME HURRICANE SEPT. 27 – OCT. 5, 1893
TIDES (FEET):
1. 10.0-12.0 Pass Christian, Mississippi
2. 10.0 Waveland, Mississippi
2,000 lives were lost in Louisiana
R.L.C.
J.G.L.

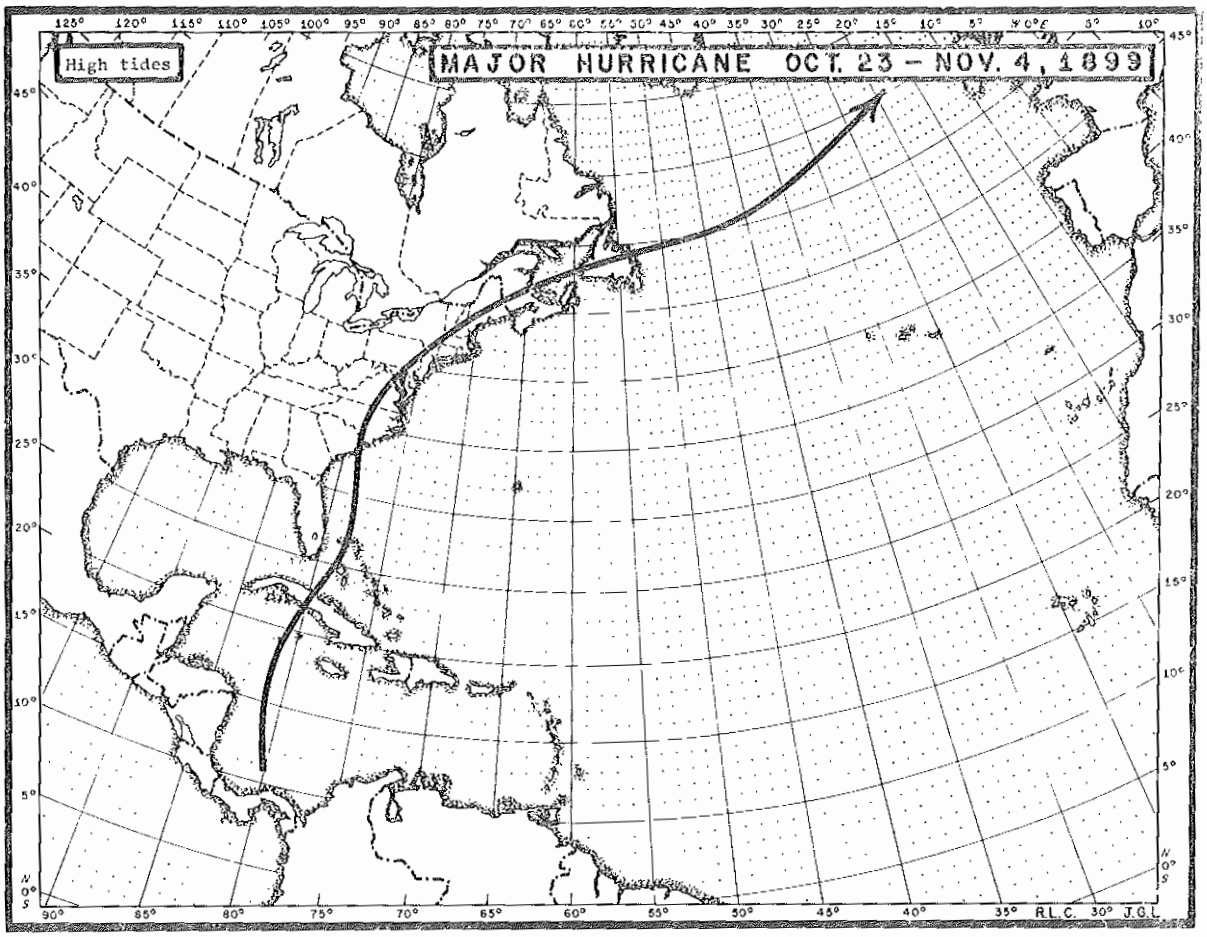

HURRICANE SEPT. 18 – 30, 1894
Winds were 104 mph at Key West, Florida
R.L.C.
J.G.L.

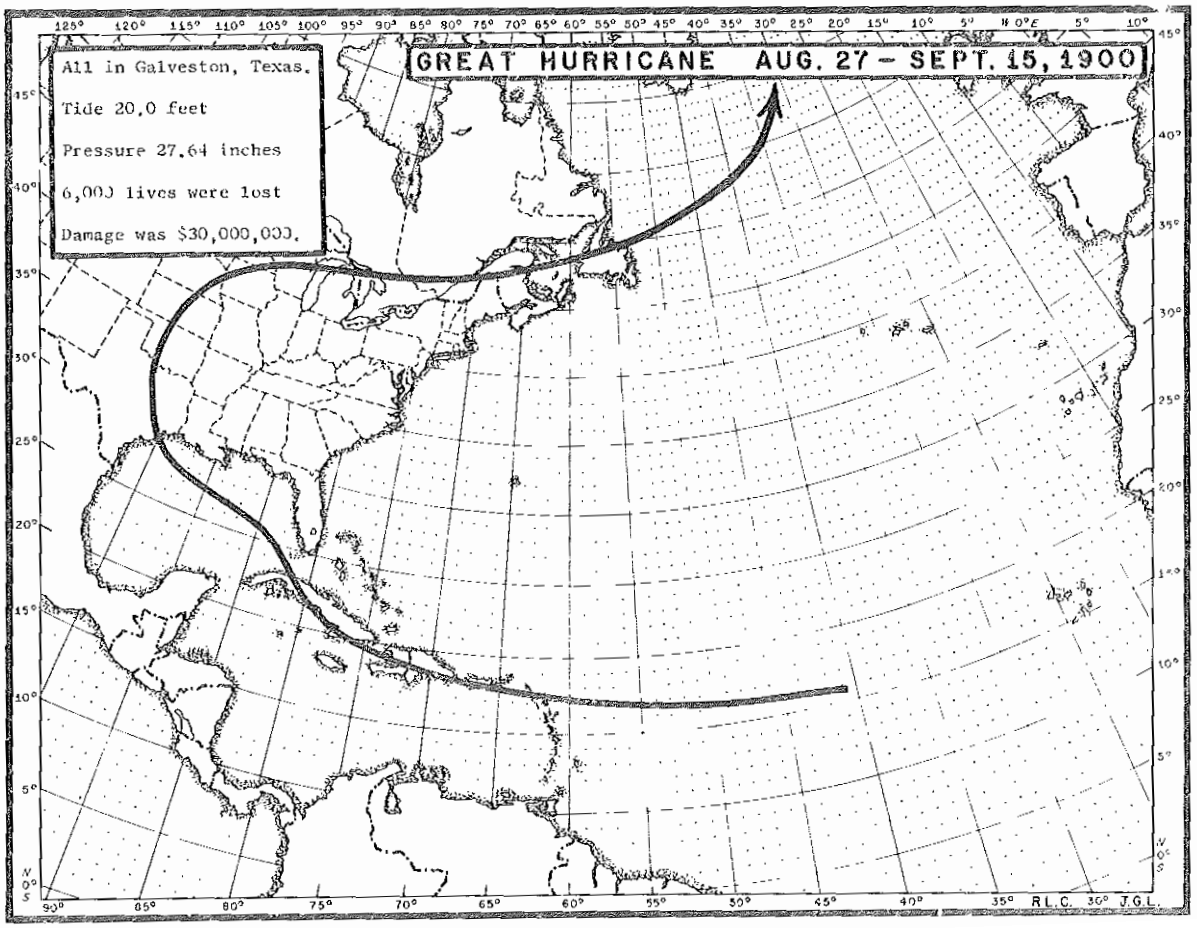

HURRICANE JULY 4-12, 1896
100 mph winds at
Pensacola, Florida
R.L.C.
J.G.L.

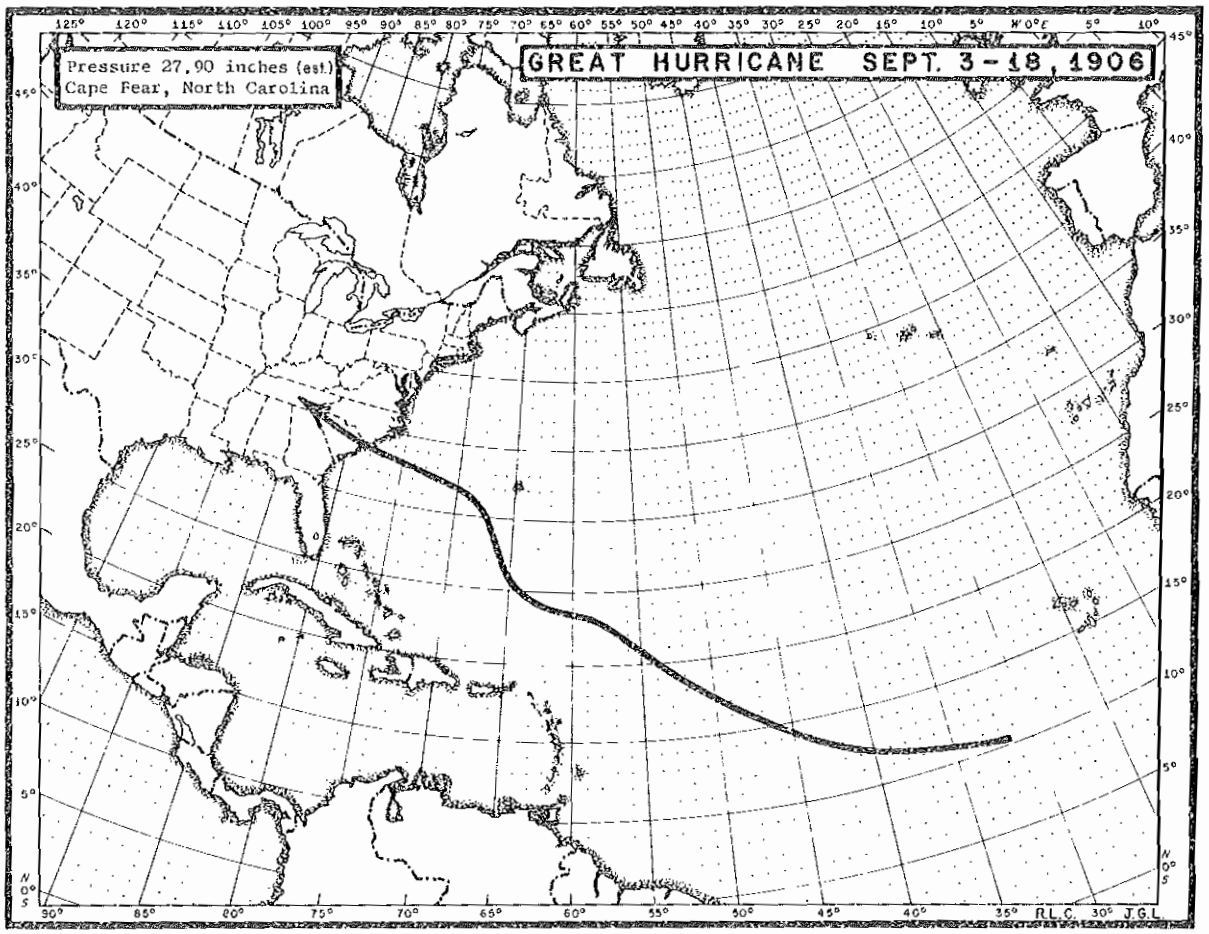

HURRICANE SEPT. 22-29, 1896
Tide 10.0 feet Cedar Key, Florida
100 lives lost in Florida
16 lives lost in Middle Atlantic States
Damage was $3,828,000
R.L.C.
J.G.L.

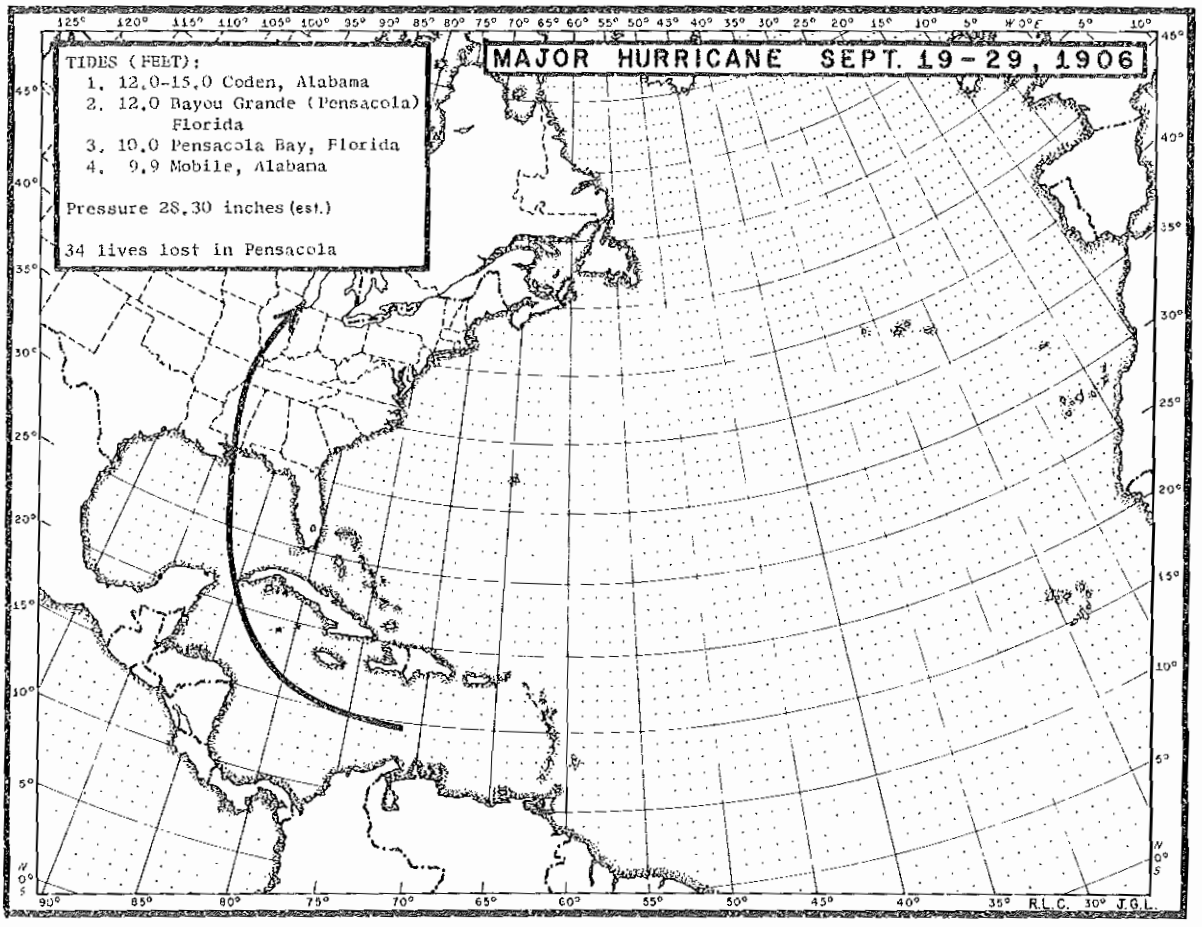

Tide 10.8 feet at
Fernandina Beach, Florida
179 lives were lost in Georgia.
EXTREME HURRICANE SEPT. 25 – OCT. 6, 1898
R.L.C.
J.G.L.

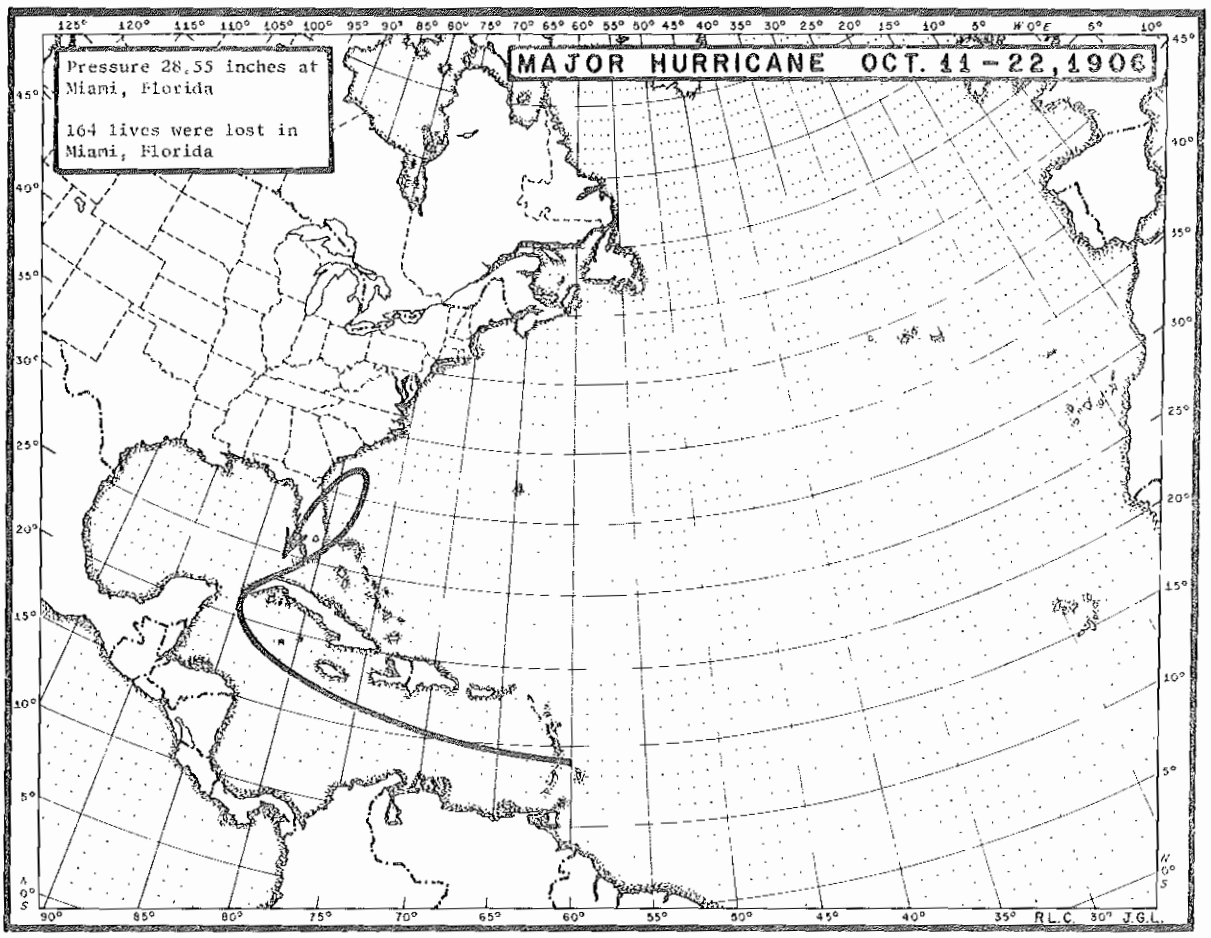

7 ships were wrecked
EXTREME HURRICANE AUG. 3 – 24, 1899
R.L.C.
J.G.L.

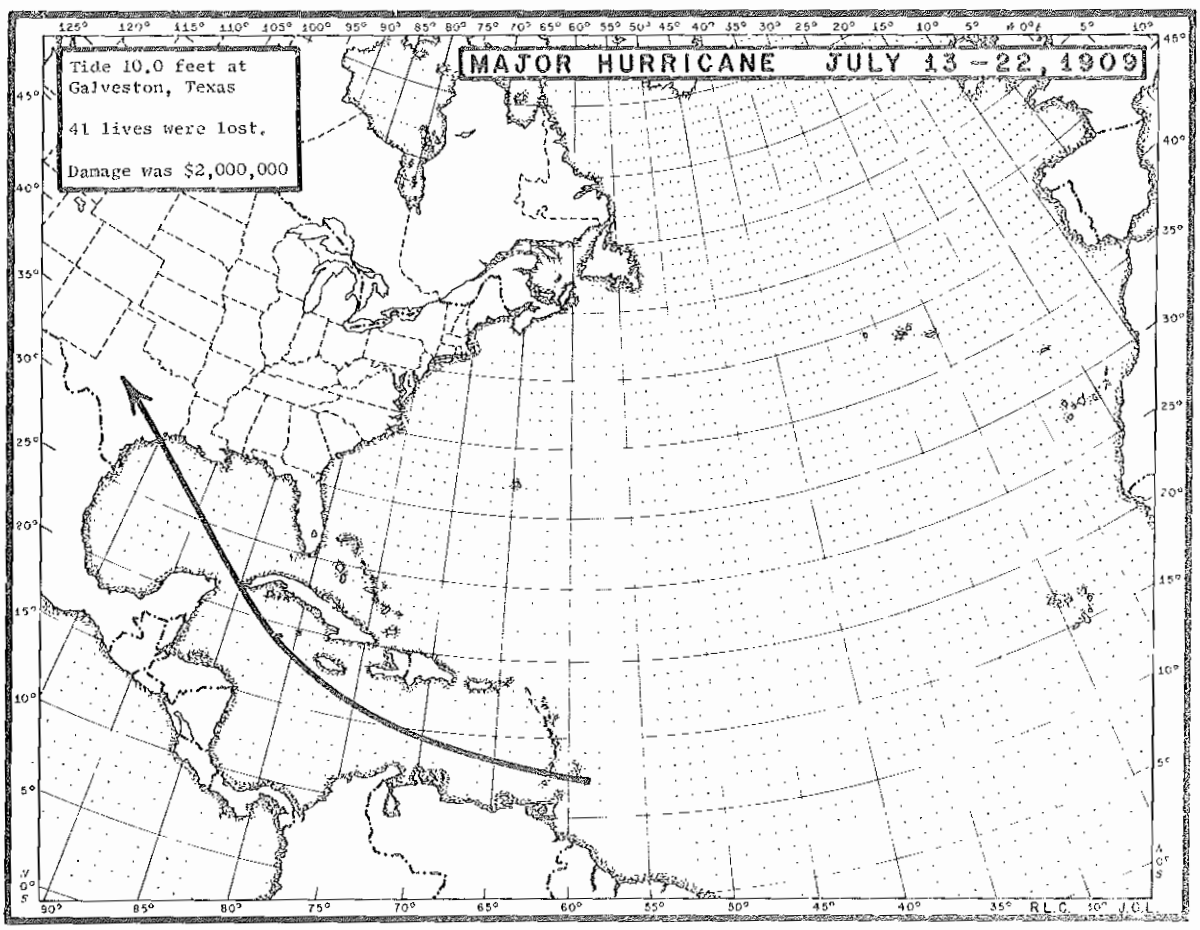

High tides
MAJOR HURRICANE OCT. 23 – NOV. 4, 1899
R.L.C. J.G.L.

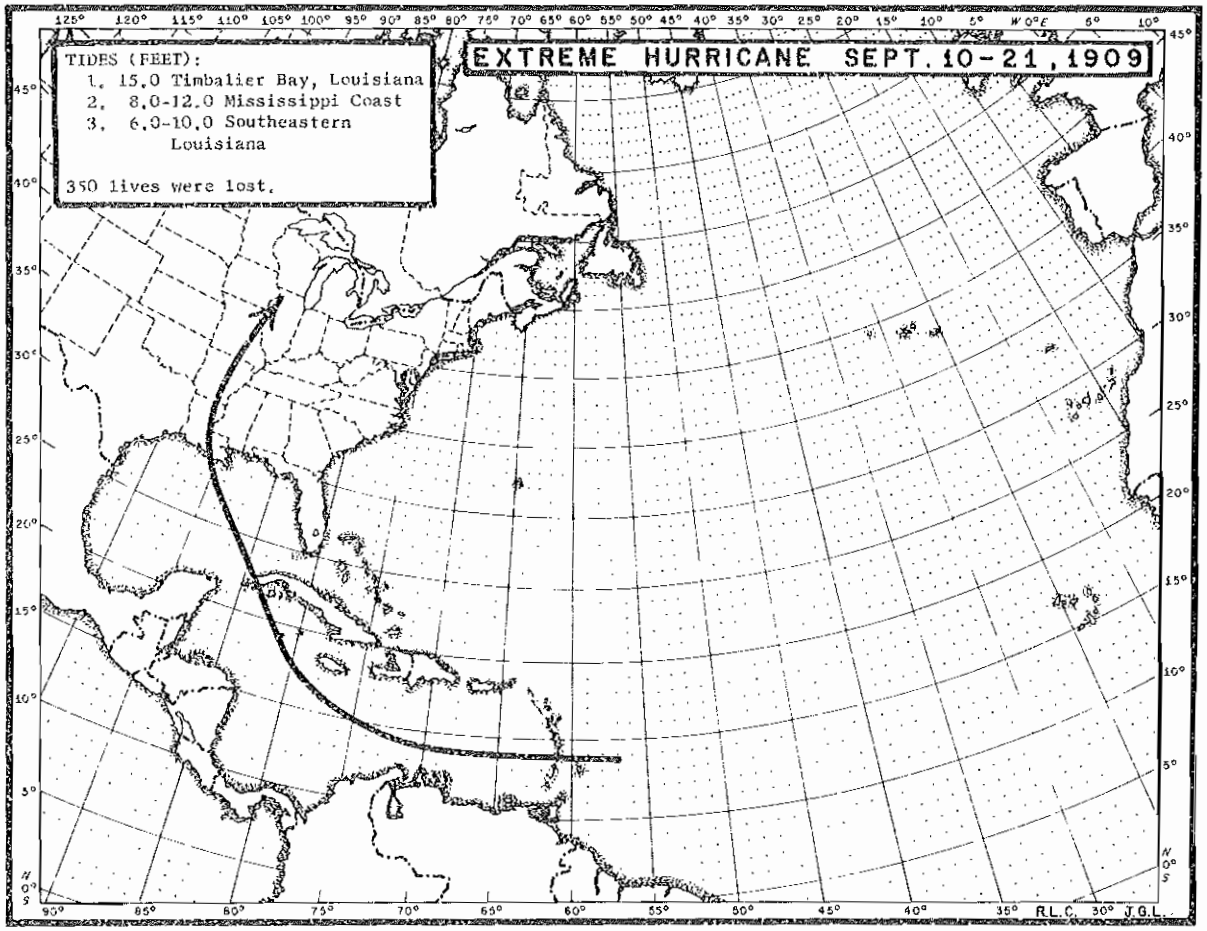

All in Galveston, Texas.
Tide 20.0 feet
Pressure 27.64 inches
6,000 lives were lost
Damage was $30,000,000.
GREAT HURRICANE AUG. 27 – SEPT. 15, 1900
R.L.C. J.G.L.

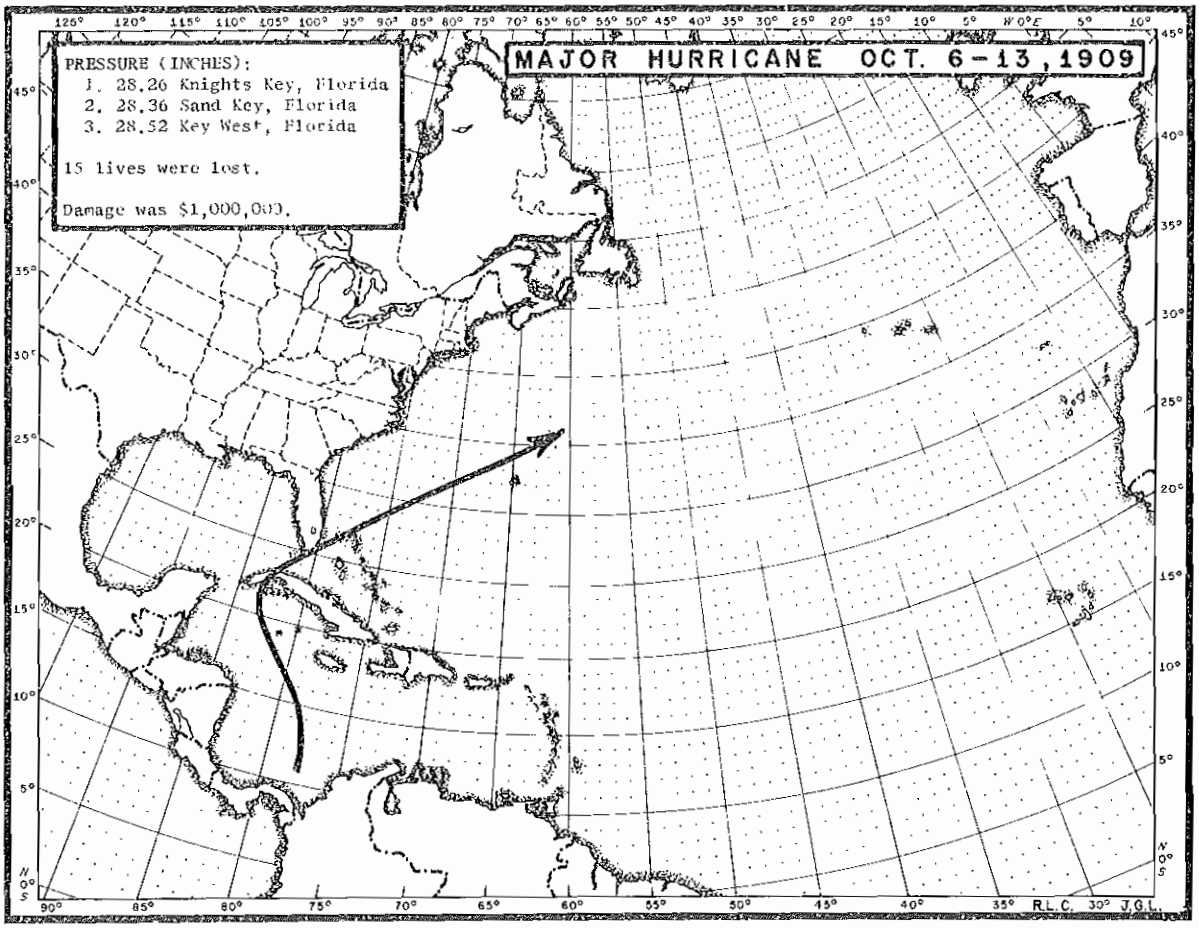

GREAT HURRICANE SEPT. 3-18, 1906
Pressure 27.90 inches (est.)
Cape Fear, North Carolina
RLC JGL

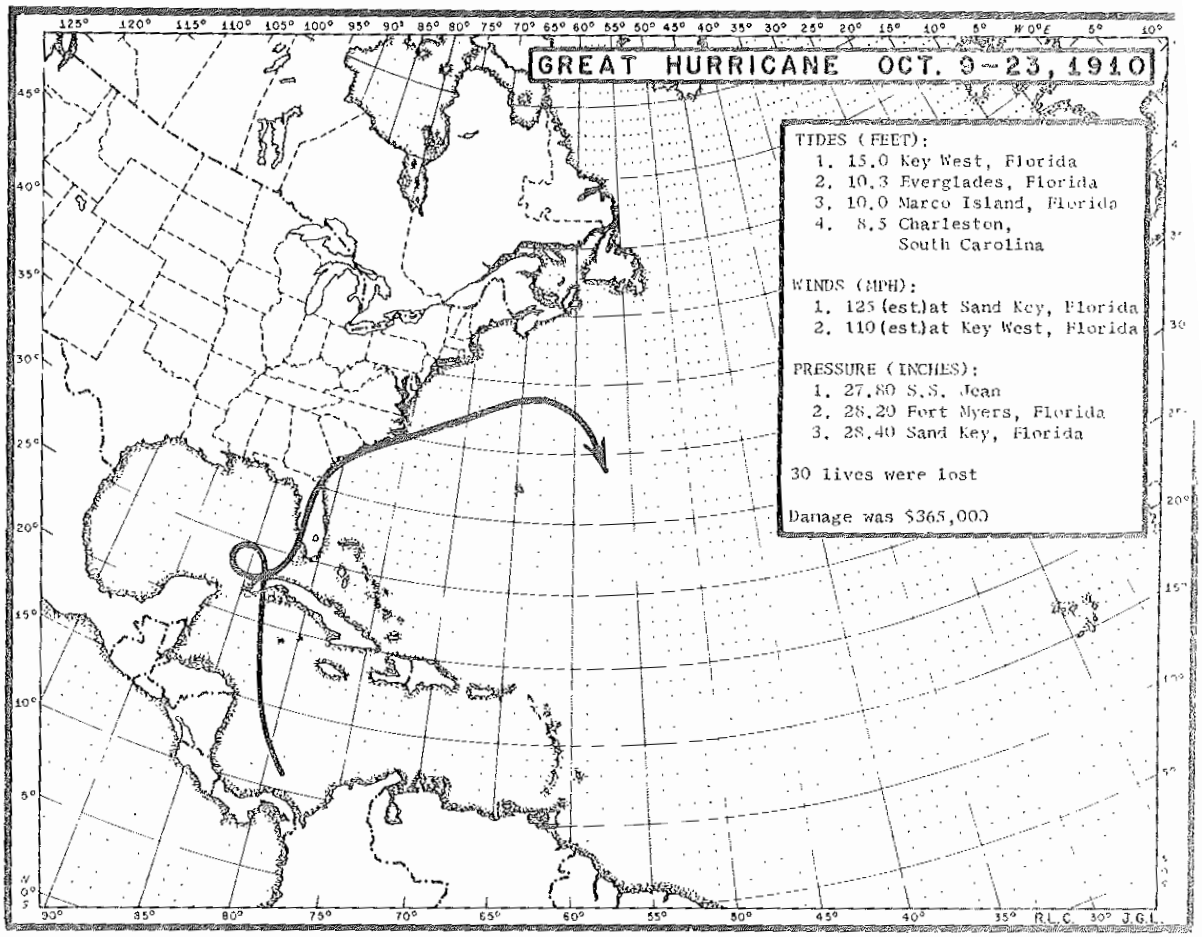

MAJOR HURRICANE SEPT. 19-29, 1906
TIDES (FEET):
1. 12.0-15.0 Coden, Alabama
2. 12.0 Bayou Grande (Pensacola) Florida
3. 10.0 Pensacola Bay, Florida
4. 9.9 Mobile, Alabama
Pressure 28.30 inches (est.)
34 lives lost in Pensacola
RLC JGL

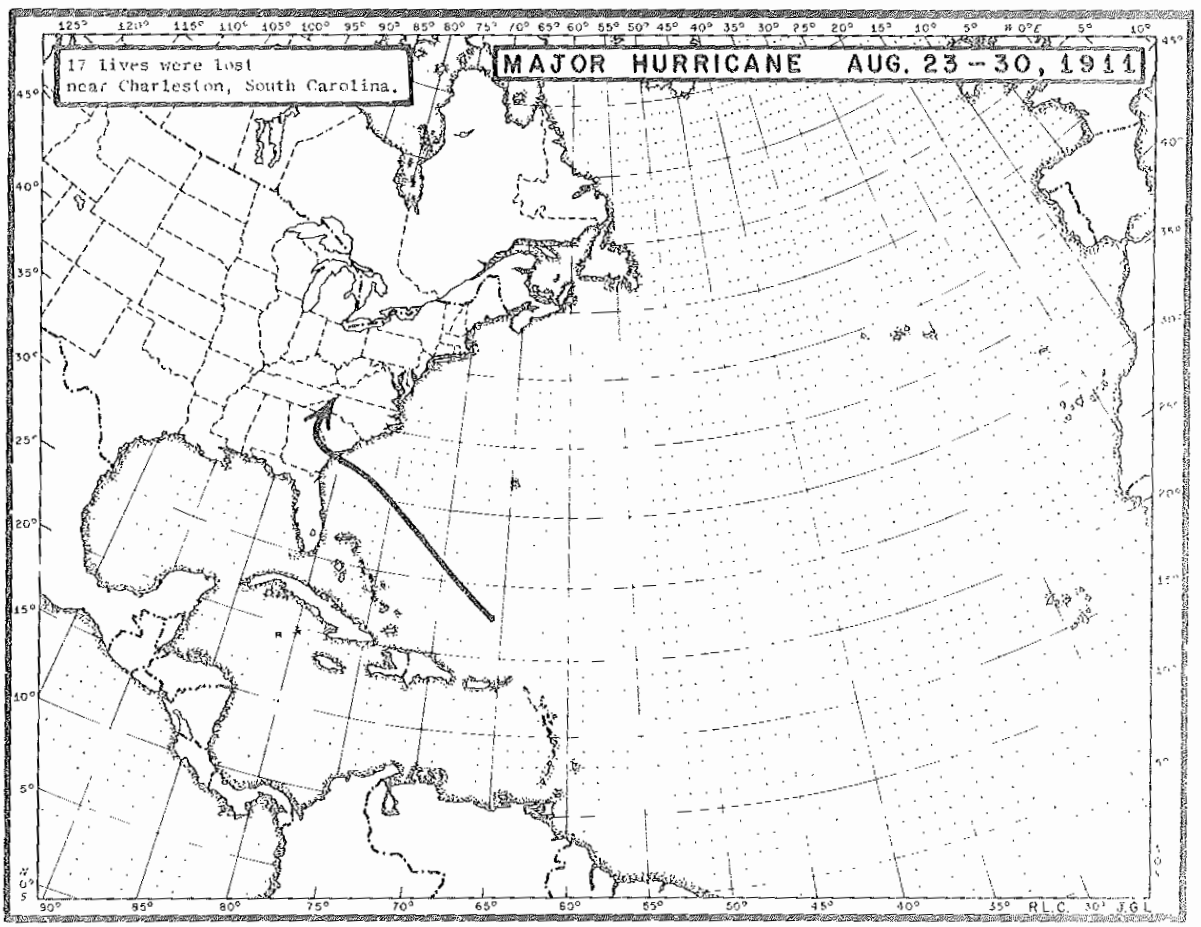

MAJOR HURRICANE OCT. 11 - 22, 1906
Pressure 28.55 inches at Miami, Florida
164 lives were lost in Miami, Florida
RL.C
J.G.L.

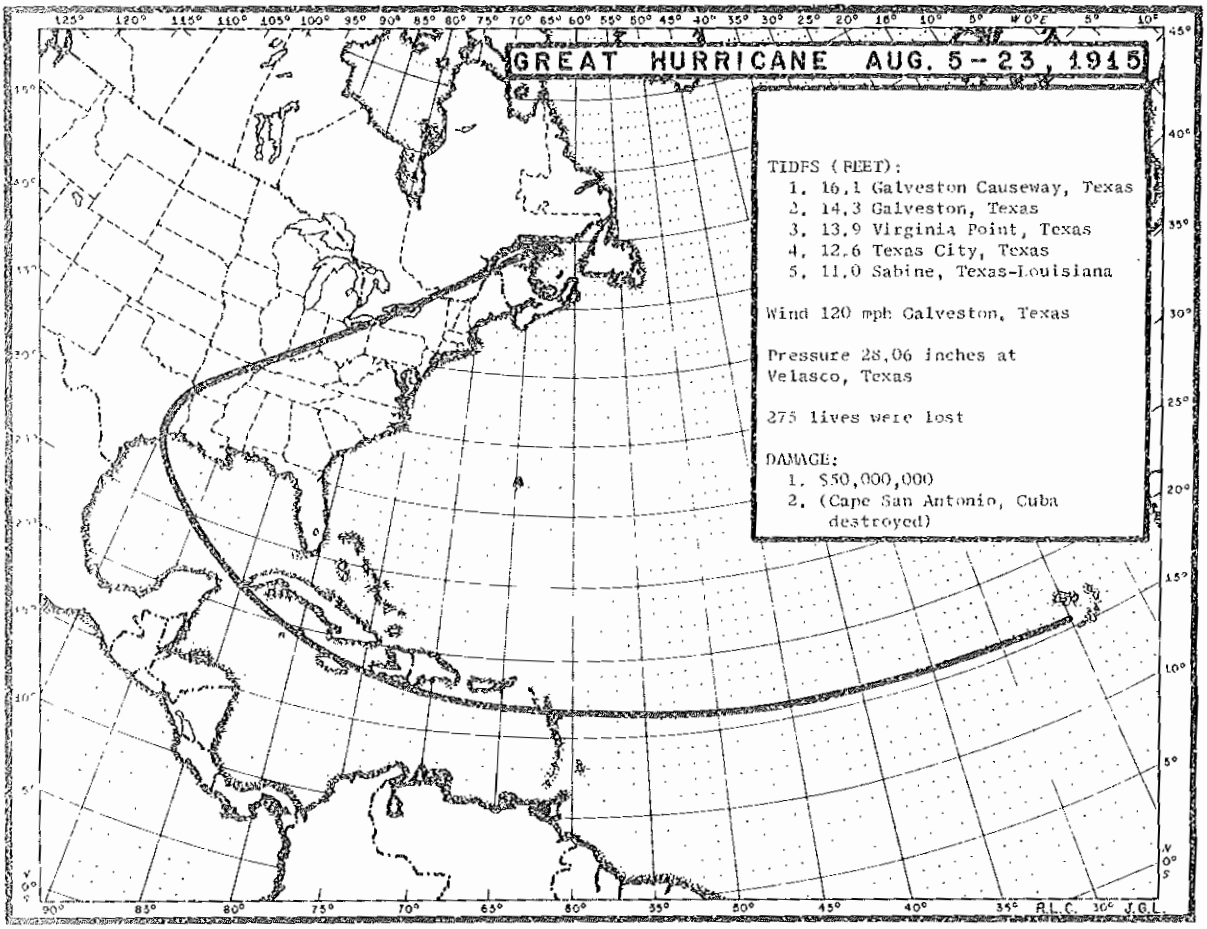

MAJOR HURRICANE JULY 13 - 22, 1909
Tide 10.0 feet at Galveston, Texas
41 lives were lost.
Damage was $2,000,000
RL.C
J.G.L.

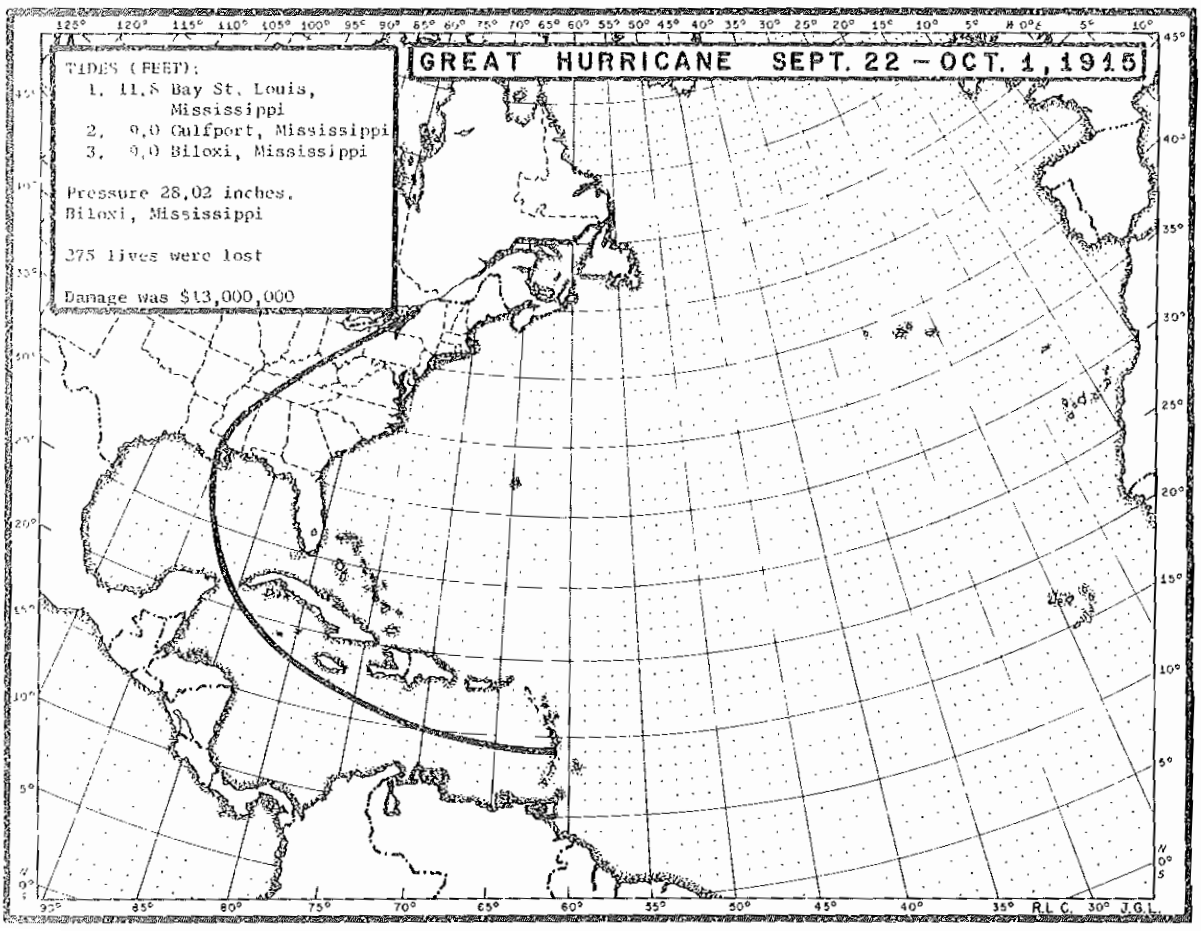

EXTREME HURRICANE SEPT. 10-21, 1909
TIDES (FEET):
1. 15.0 Timbalier Bay, Louisiana
2. 8.0-12.0 Mississippi Coast
3. 6.0-10.0 Southeastern Louisiana
350 lives were lost.
R.L.C. J.G.L.

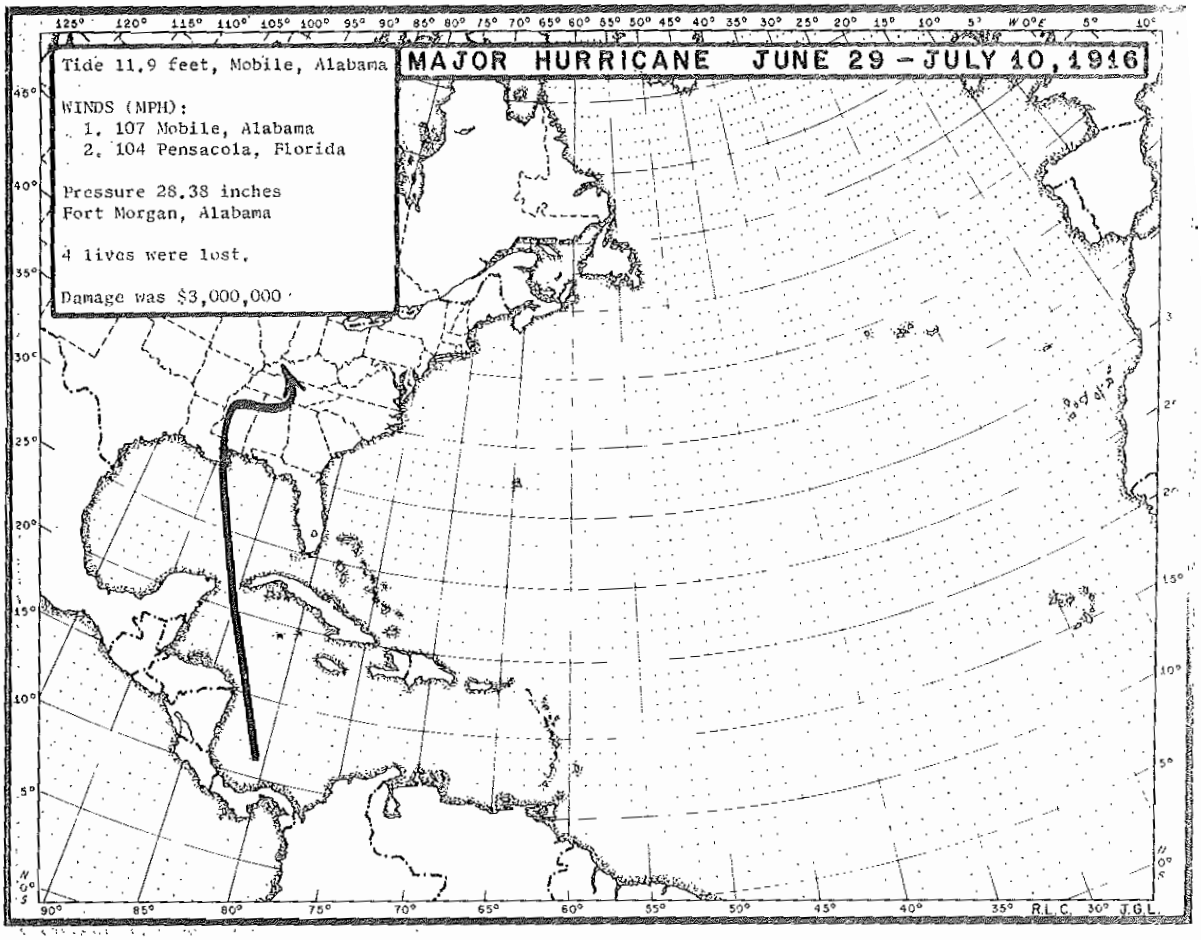

MAJOR HURRICANE OCT. 6-13, 1909
PRESSURE (INCHES):
1. 28.26 Knights Key, Florida
2. 28.36 Sand Key, Florida
3. 28.52 Key West, Florida
15 lives were lost.
Damage was $1,000,000.
R.L.C. J.G.L.

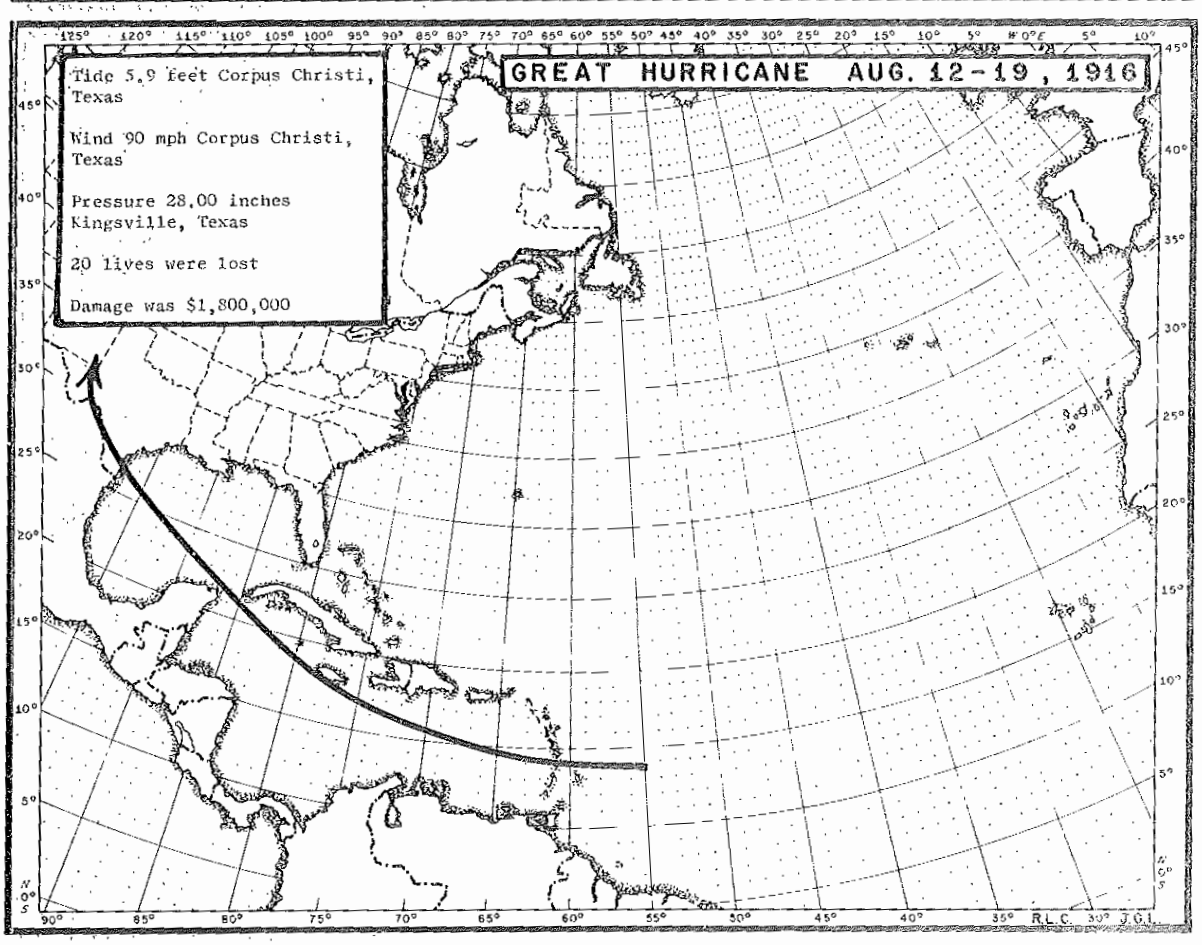

GREAT HURRICANE OCT. 9-23, 1910
TIDES (FEET):
1. 15.0 Key West, Florida
2. 10.3 Everglades, Florida
3. 10.0 Marco Island, Florida
4. 8.5 Charleston, South Carolina
WINDS (MPH):
1. 125 (est.)at Sand Key, Florida
2. 110 (est.)at Key West, Florida
PRESSURE (INCHES):
1. 27.80 S.S. Jean
2. 28.20 Fort Myers, Florida
3. 28.40 Sand Key, Florida
30 lives were lost
Damage was $365,000
RLC 30° JGL

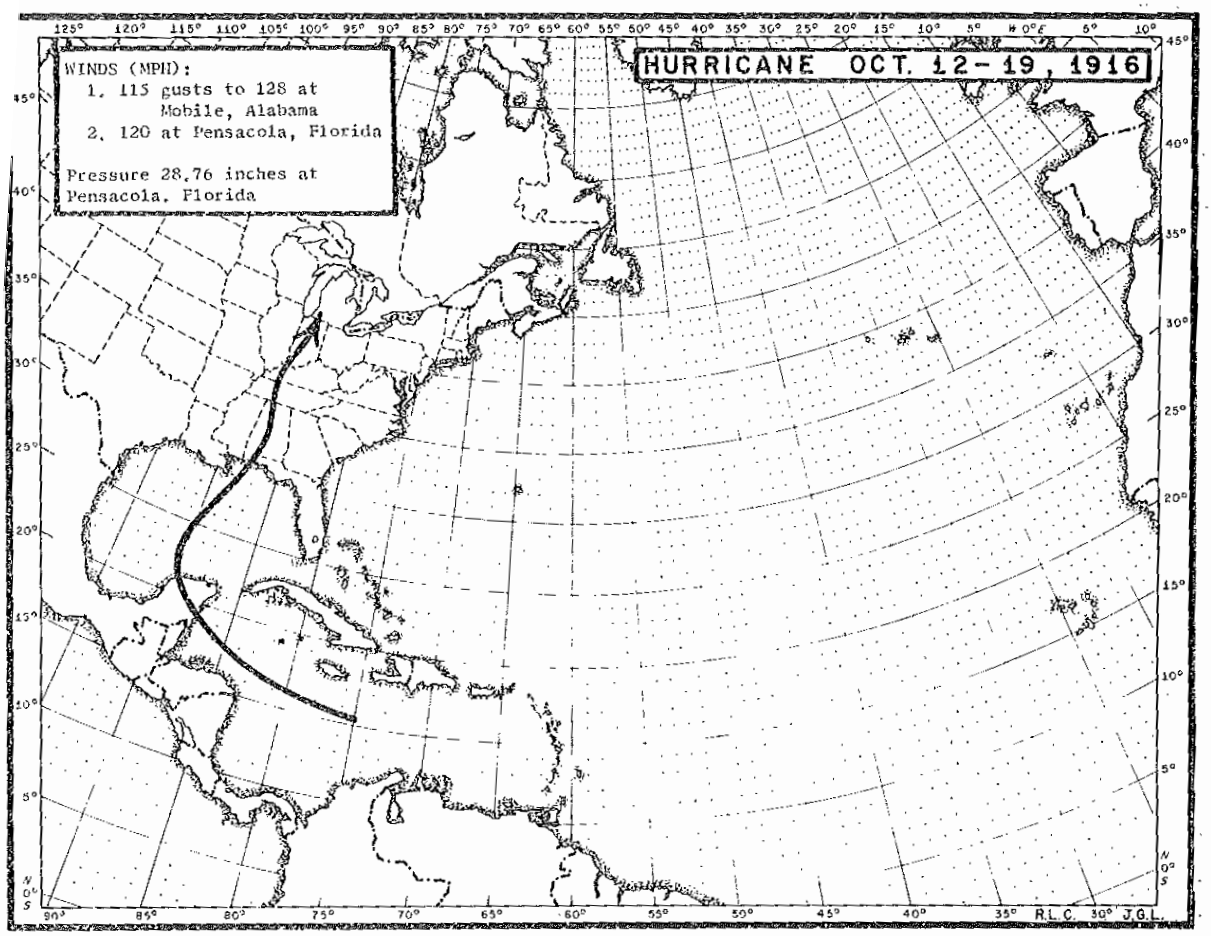

17 lives were lost near Charleston, South Carolina.
MAJOR HURRICANE AUG. 23-30, 1911
RLC 30° JGL

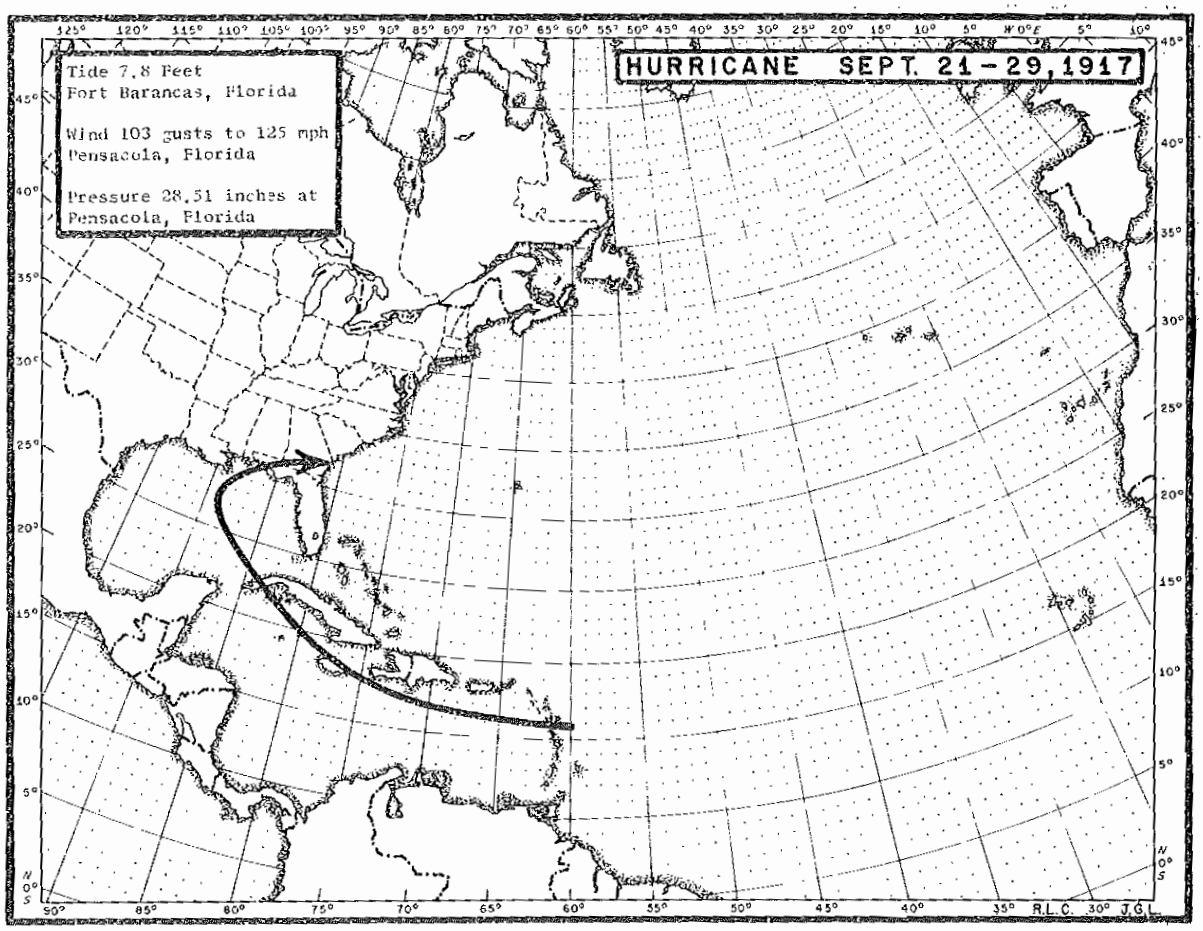

GREAT HURRICANE AUG. 5 – 23, 1915
TIDES (FEET):
1. 16.1 Galveston Causeway, Texas
2. 14.3 Galveston, Texas
3. 13.9 Virginia Point, Texas
4. 12.6 Texas City, Texas
5. 11.0 Sabine, Texas-Louisiana
Wind 120 mph Galveston, Texas
Pressure 28.06 inches at Velasco, Texas
275 lives were lost
DAMAGE:
1. $50,000,000
2. (Cape San Antonio, Cuba destroyed)
R.L.C. 30° J.G.L.

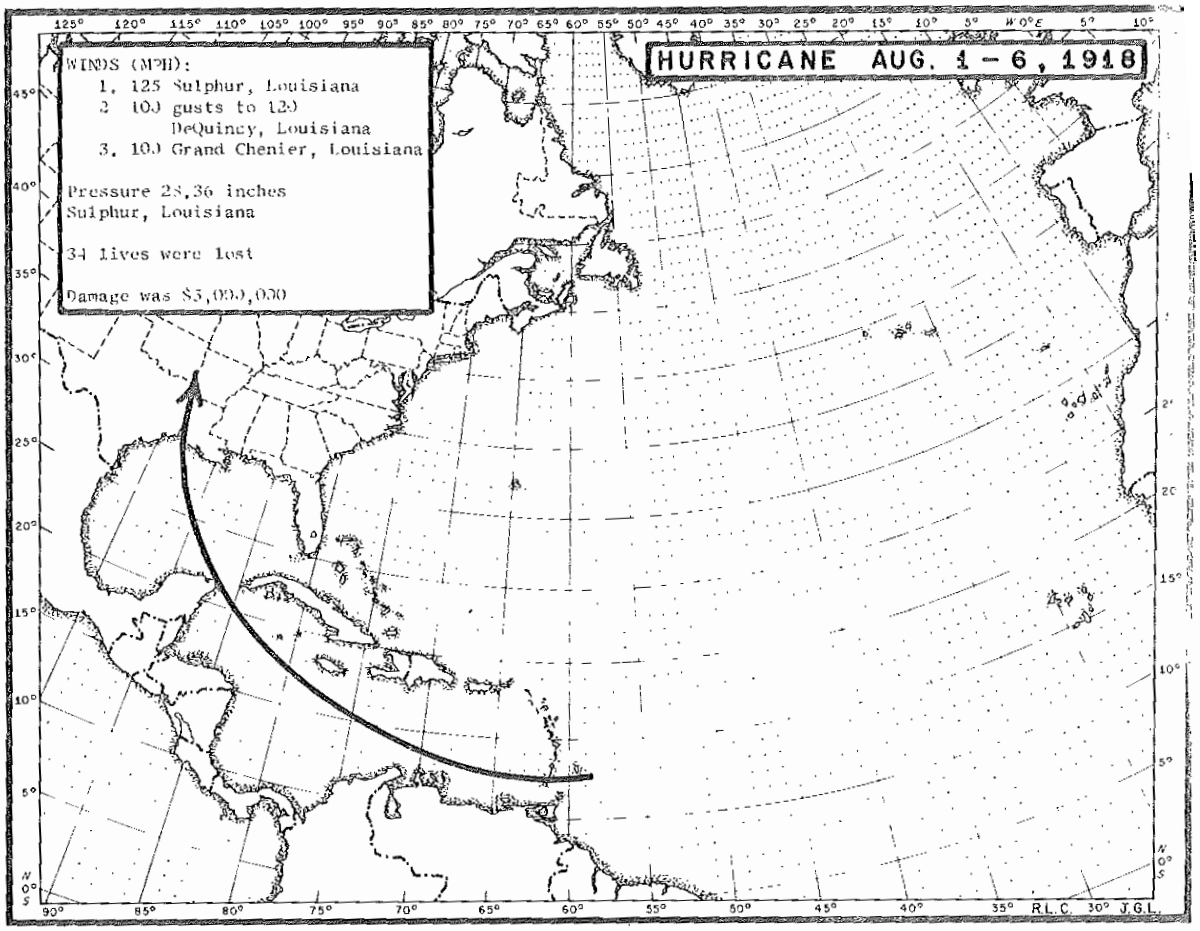

GREAT HURRICANE SEPT. 22 – OCT. 1, 1915
TIDES (FEET):
1. 11.8 Bay St. Louis, Mississippi
2. 9.0 Gulfport, Mississippi
3. 9.0 Biloxi, Mississippi
Pressure 28.02 inches, Biloxi, Mississippi
275 lives were lost
Damage was $13,000,000
R.L.C. 30° J.G.L.

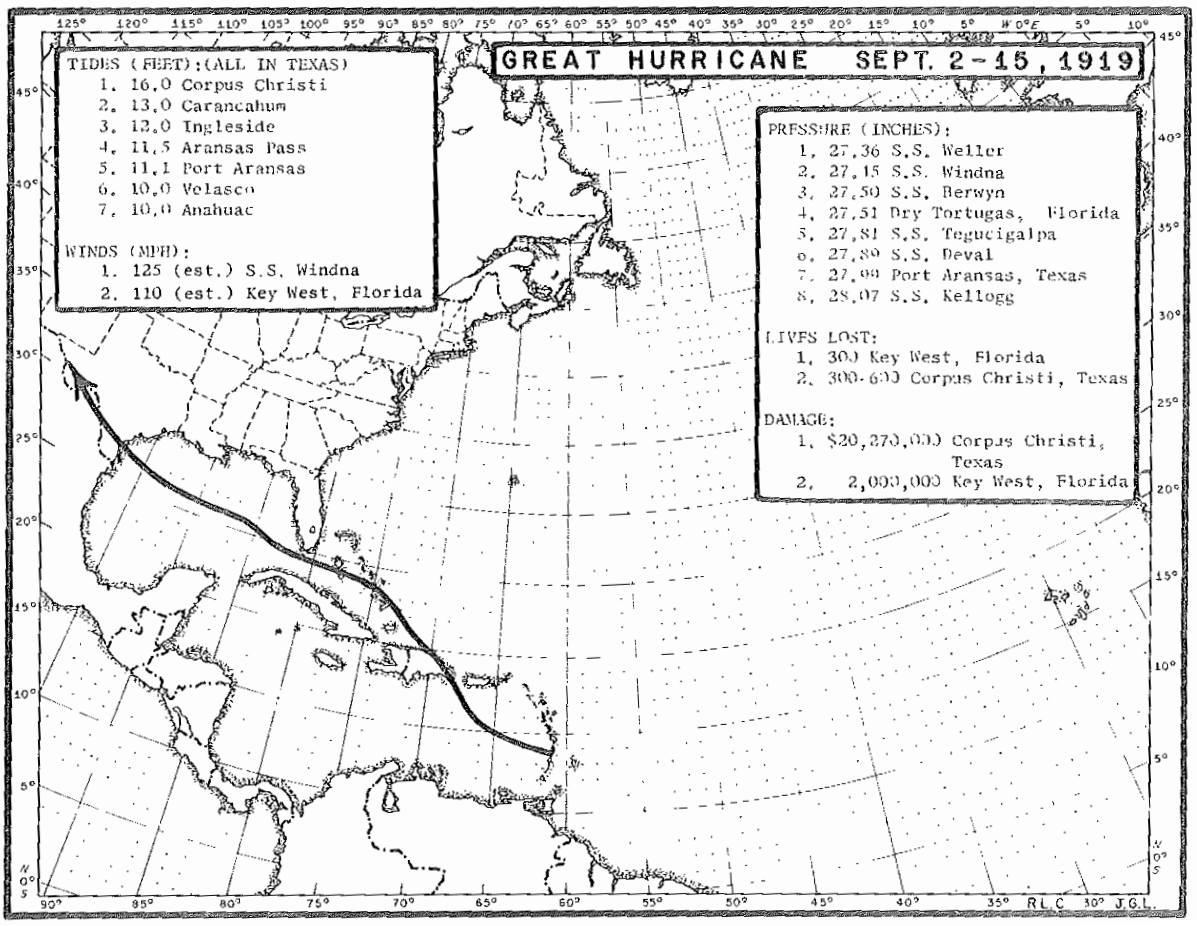

MAJOR HURRICANE JUNE 29 – JULY 10, 1916
Tide 11.9 feet, Mobile, Alabama
WINDS (MPH):
1. 107 Mobile, Alabama
2. 104 Pensacola, Florida
Pressure 28.38 inches
Fort Morgan, Alabama
4 lives were lost.
Damage was $3,000,000
R.L.C. J.G.L.

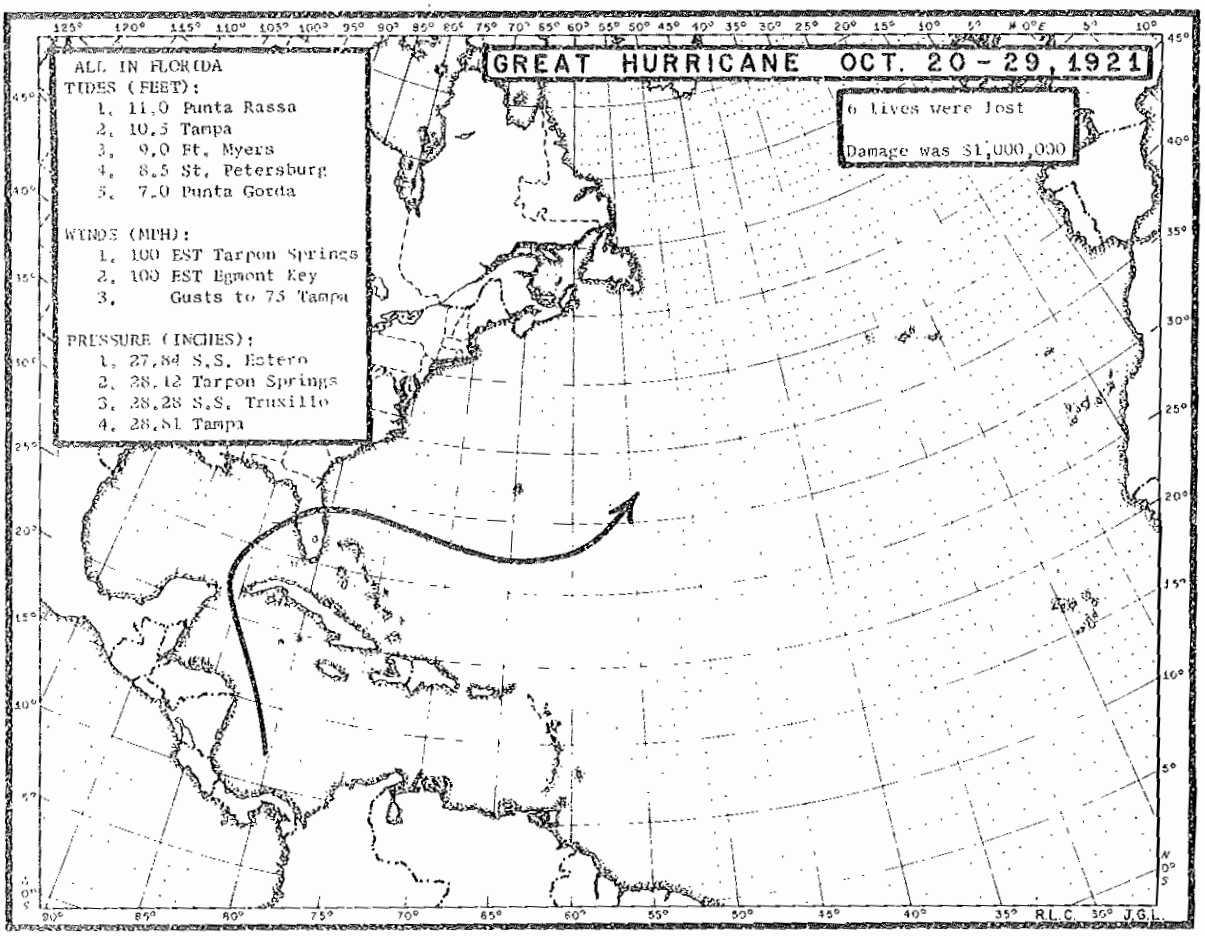

GREAT HURRICANE AUG. 12-19, 1916
Tide 5.9 feet Corpus Christi, Texas
Wind 90 mph Corpus Christi, Texas
Pressure 28.00 inches
Kingsville, Texas
20 lives were lost
Damage was $1,800,000
R.L.C. J.G.L.

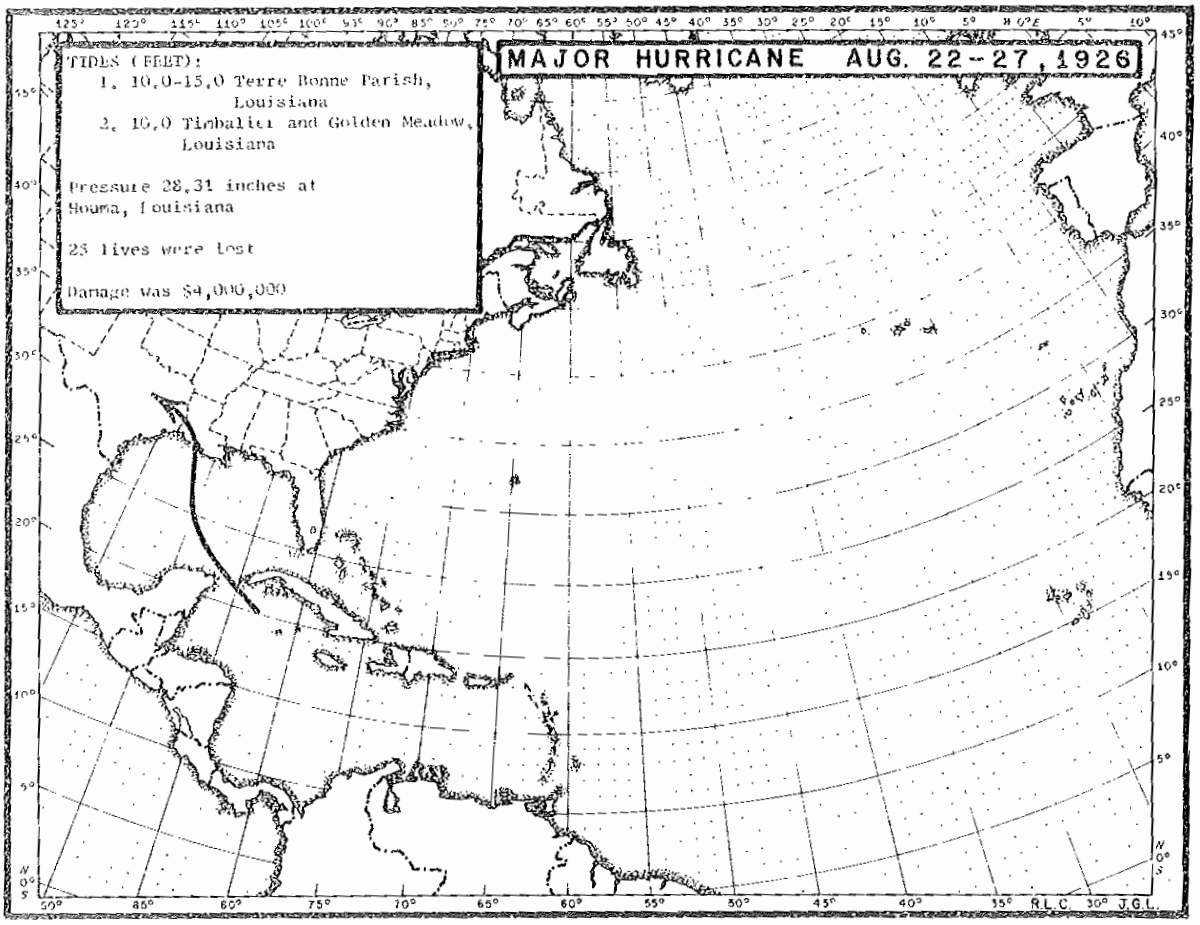

HURRICANE OCT. 12 - 19, 1916
WINDS (MPH):
1. 115 gusts to 128 at Mobile, Alabama
2. 120 at Pensacola, Florida
Pressure 28.76 inches at Pensacola, Florida
R.L.C. J.G.L.

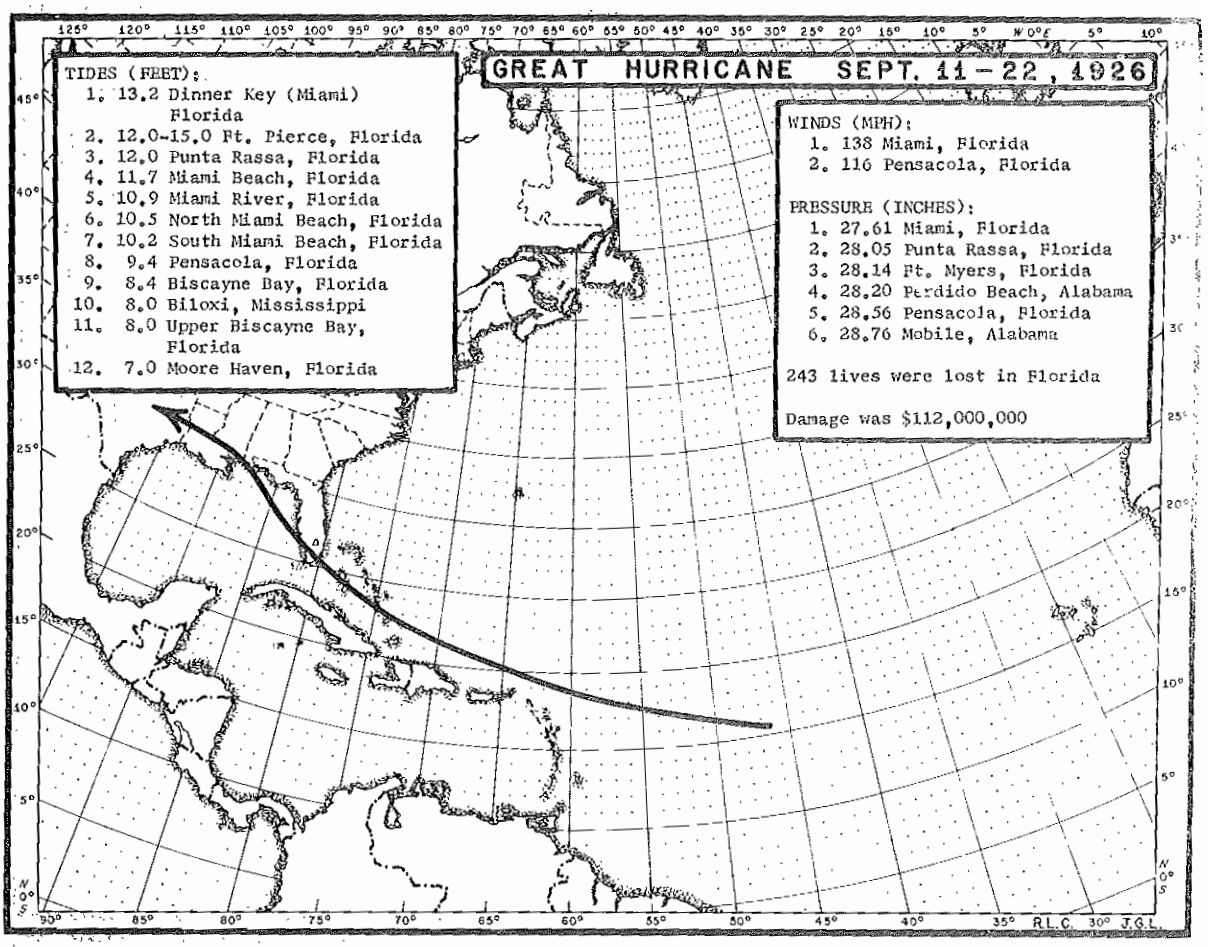

HURRICANE SEPT. 21 - 29, 1917
Tide 7.8 Feet
Fort Barancas, Florida
Wind 103 gusts to 125 mph
Pensacola, Florida
Pressure 28.51 inches at Pensacola, Florida
R.L.C. J.G.L.

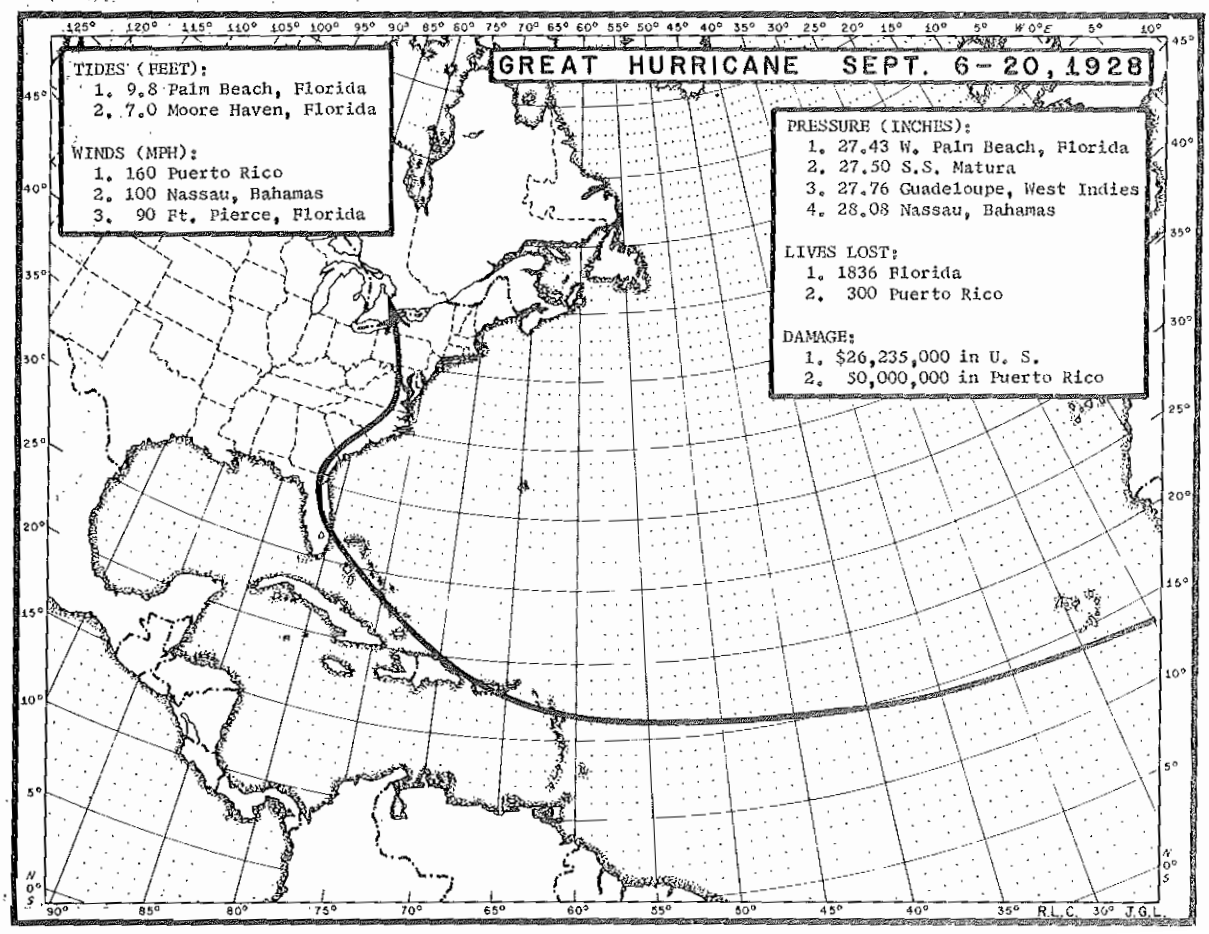

HURRICANE AUG. 1 - 6, 1916
WINDS (MPH):
1. 125 Sulphur, Louisiana
2. 100 gusts to 120
DeQuincy, Louisiana
3. 100 Grand Chenier, Louisiana
Pressure 28.36 inches
Sulphur, Louisiana
34 lives were lost
Damage was $5,000,000
RLC
JGL

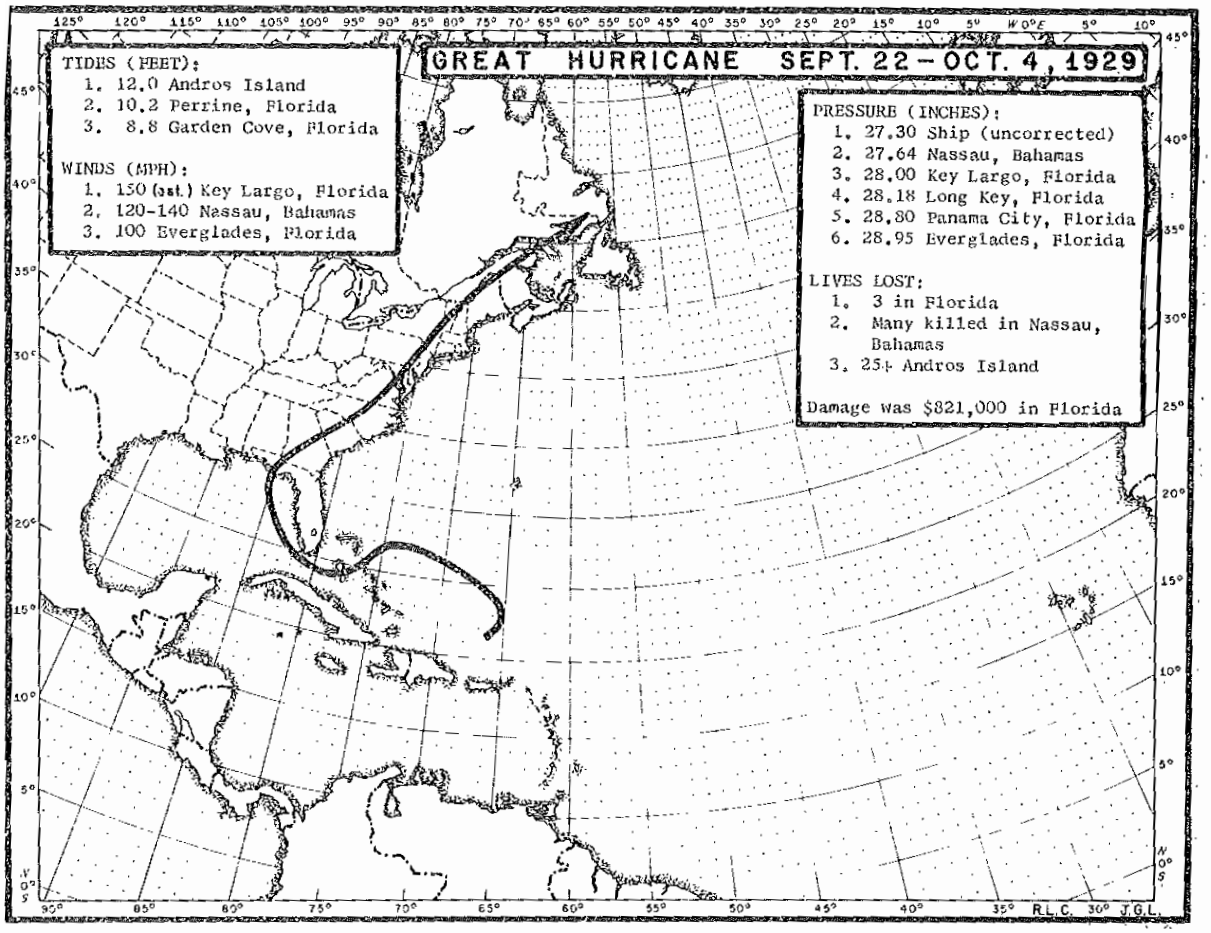

GREAT HURRICANE SEPT. 2 - 15, 1919
TIDES (FEET):(ALL IN TEXAS)
1. 16.0 Corpus Christi
2. 13.0 Carancahua
3. 12.0 Ingleside
4. 11.5 Aransas Pass
5. 11.1 Port Aransas
6. 10.0 Velasco
7. 10.0 Anahuac
WINDS (MPH):
1. 125 (est.) S.S. Windna
2. 110 (est.) Key West, Florida
PRESSURE (INCHES):
1. 27.36 S.S. Weller
2. 27.15 S.S. Windna
3. 27.50 S.S. Berwyn
4. 27.51 Dry Tortugas, Florida
5. 27.81 S.S. Tegucigalpa
6. 27.89 S.S. Deval
7. 27.98 Port Aransas, Texas
8. 28.07 S.S. Kellogg
LIVES LOST:
1. 300 Key West, Florida
2. 300-600 Corpus Christi, Texas
DAMAGE:
1. $20,270,000 Corpus Christi, Texas
2. 2,000,000 Key West, Florida
RLC
JGL

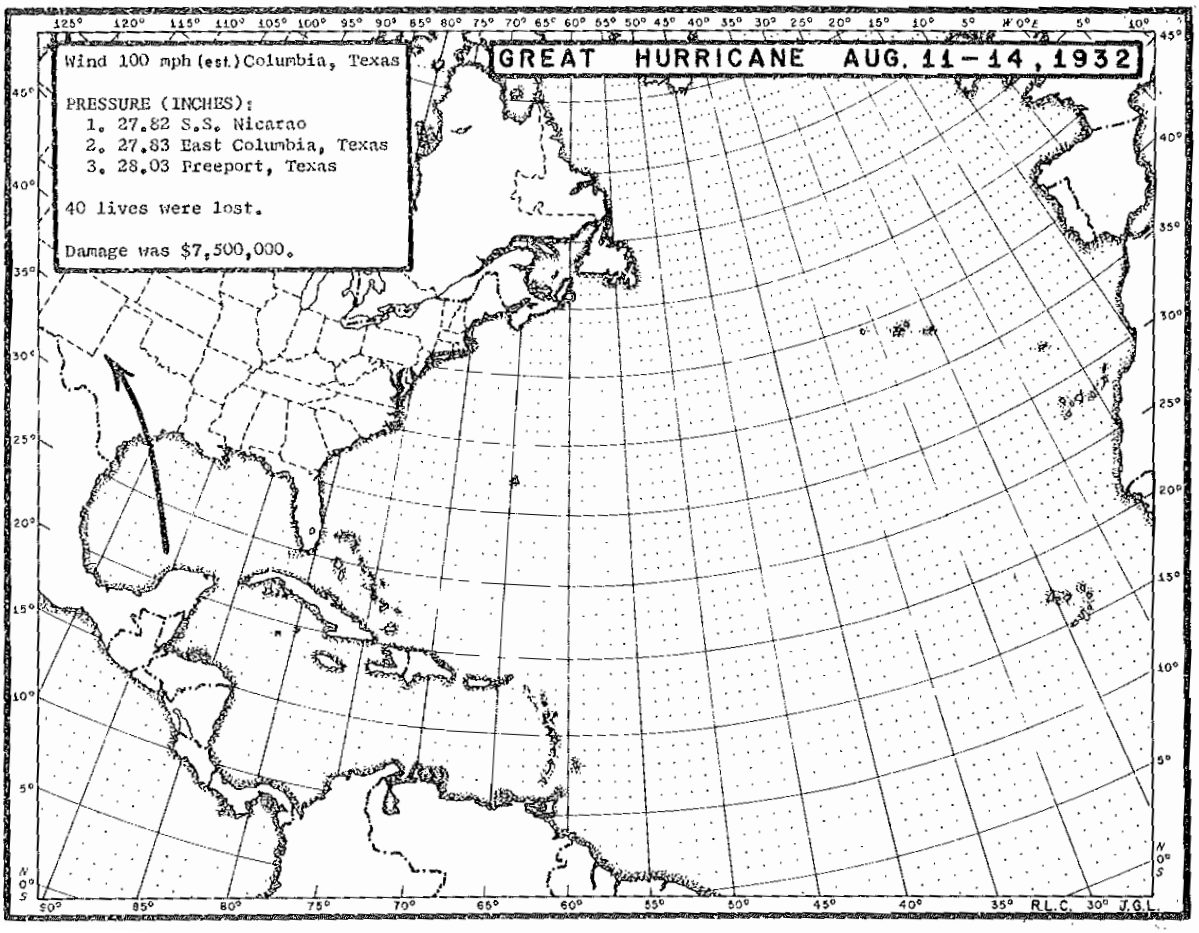

GREAT HURRICANE OCT. 20 - 29, 1921
ALL IN FLORIDA
TIDES (FEET):
1. 11.0 Punta Rassa
2. 10.5 Tampa
3. 9.0 Ft. Myers
4. 8.5 St. Petersburg
5. 7.0 Punta Gorda
WINDS (MPH):
1. 100 EST Tarpon Springs
2. 100 EST Egmont Key
3. Gusts to 75 Tampa
PRESSURE (INCHES):
1. 27.84 S.S. Estero
2. 28.12 Tarpon Springs
3. 28.28 S.S. Truxillo
4. 28.81 Tampa
6 lives were lost
Damage was $1,000,000
R.L.C.
J.G.L.

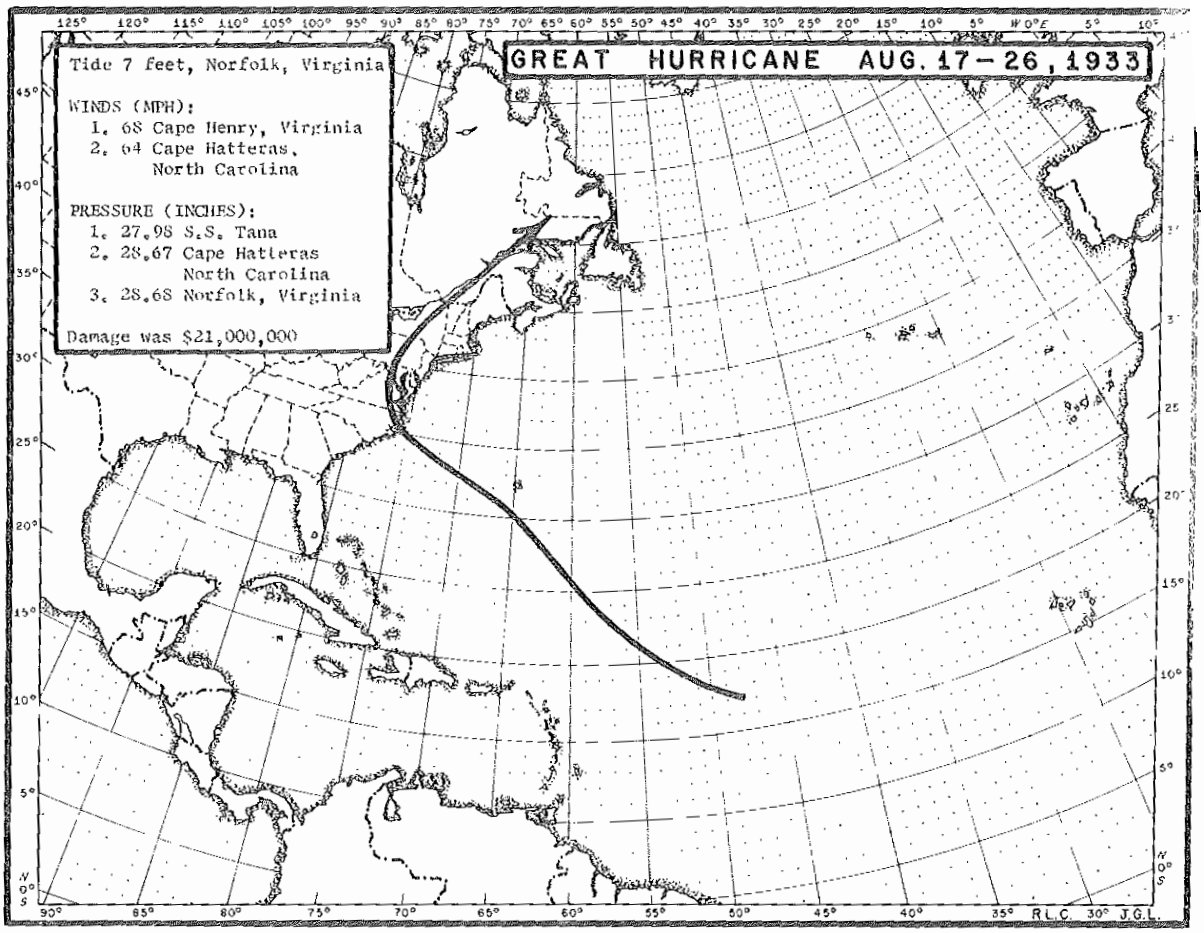

MAJOR HURRICANE AUG. 22-27, 1926
TIDES (FEET):
1. 10.0-15.0 Terre Bonne Parish, Louisiana
2. 10.0 Timbalier and Golden Meadow, Louisiana
Pressure 28.31 inches at Houma, Louisiana
25 lives were lost
Damage was $4,000,000
R.L.C.
J.G.L.

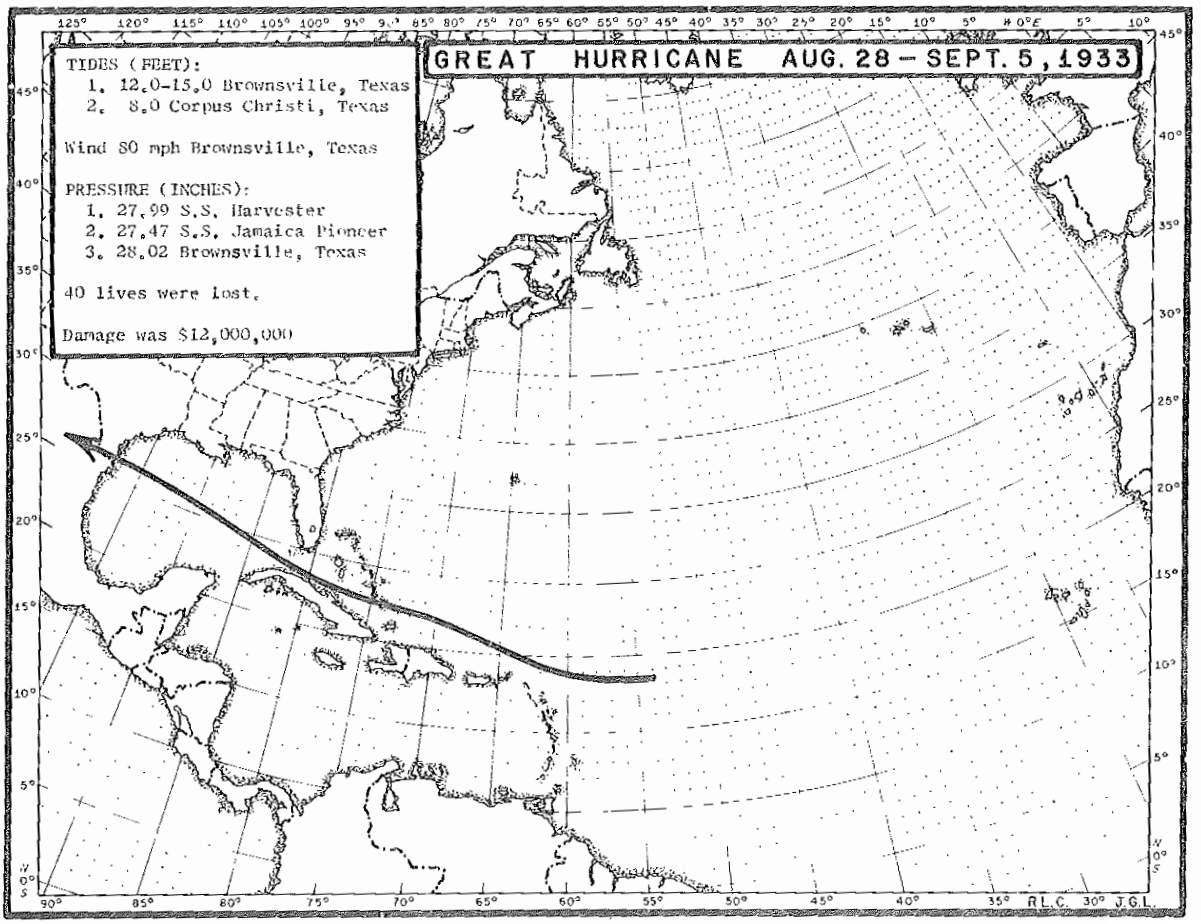

GREAT HURRICANE SEPT. 11 - 22, 1926
TIDES (FEET):
1. 13.2 Dinner Key (Miami) Florida
2. 12.0-15.0 Ft. Pierce, Florida
3. 12.0 Punta Rassa, Florida
4. 11.7 Miami Beach, Florida
5. 10.9 Miami River, Florida
6. 10.5 North Miami Beach, Florida
7. 10.2 South Miami Beach, Florida
8. 9.4 Pensacola, Florida
9. 8.4 Biscayne Bay, Florida
10. 8.0 Biloxi, Mississippi
11. 8.0 Upper Biscayne Bay, Florida
12. 7.0 Moore Haven, Florida
WINDS (MPH):
1. 138 Miami, Florida
2. 116 Pensacola, Florida
PRESSURE (INCHES):
1. 27.61 Miami, Florida
2. 28.05 Punta Rassa, Florida
3. 28.14 Ft. Myers, Florida
4. 28.20 Perdido Beach, Alabama
5. 28.56 Pensacola, Florida
6. 28.76 Mobile, Alabama
243 lives were lost in Florida
Damage was $112,000,000
R.L.C. J.G.L.

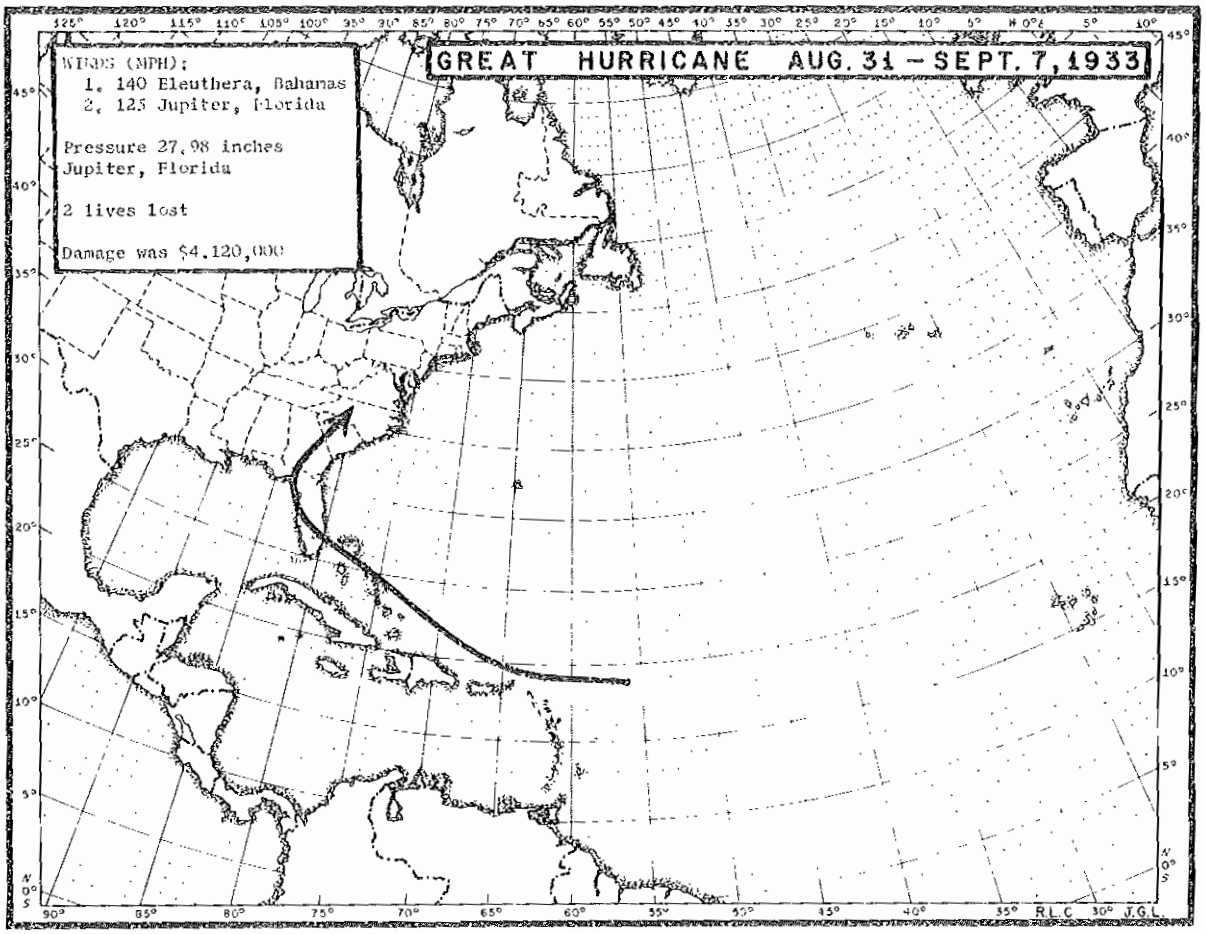

GREAT HURRICANE SEPT. 6 - 20, 1928
TIDES (FEET):
1. 9.8 Palm Beach, Florida
2. 7.0 Moore Haven, Florida
WINDS (MPH):
1. 160 Puerto Rico
2. 100 Nassau, Bahamas
3. 90 Ft. Pierce, Florida
PRESSURE (INCHES):
1. 27.43 W. Palm Beach, Florida
2. 27.50 S.S. Matura
3. 27.76 Guadeloupe, West Indies
4. 28.08 Nassau, Bahamas
LIVES LOST:
1. 1836 Florida
2. 300 Puerto Rico
DAMAGE:
1. $26,235,000 in U. S.
2. 50,000,000 in Puerto Rico
R.L.C. J.G.L.

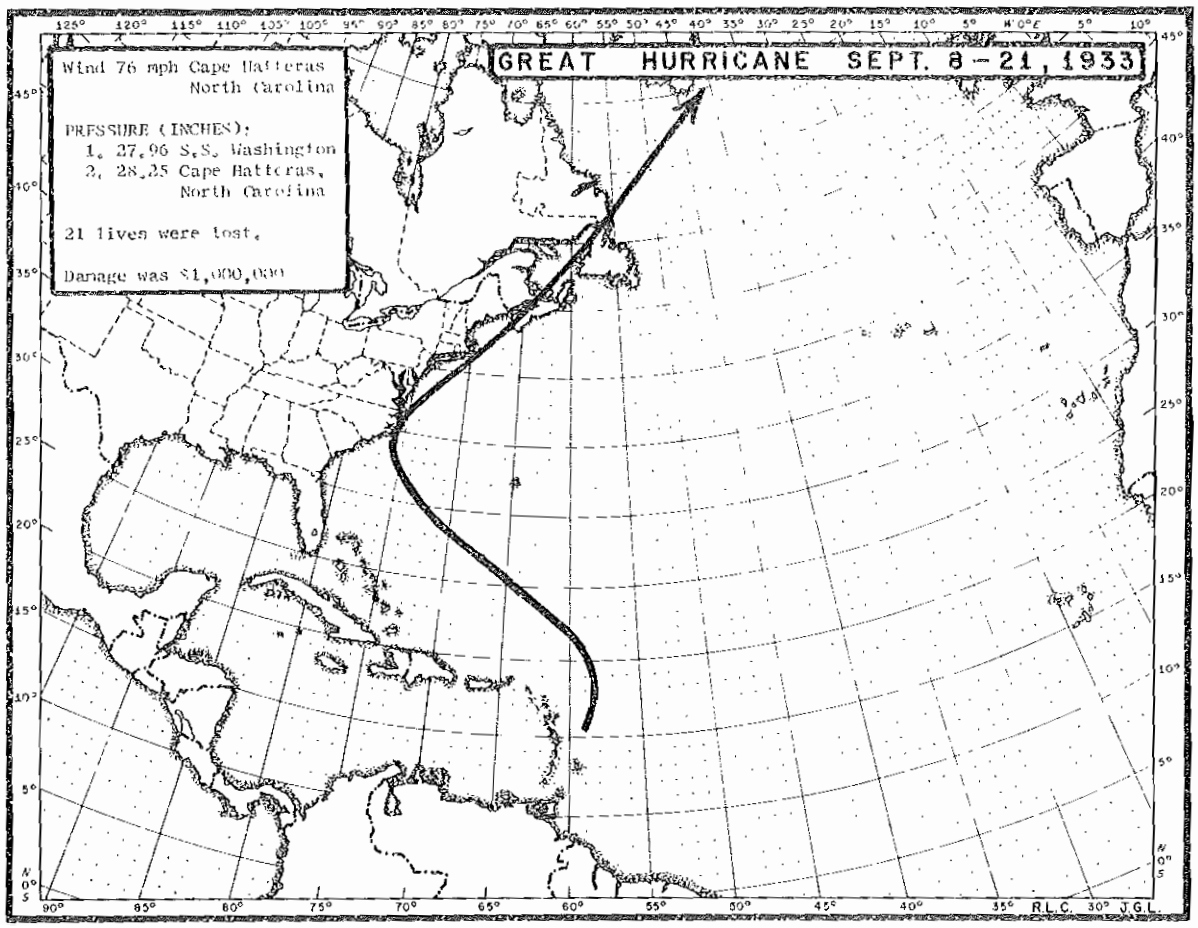

GREAT HURRICANE SEPT. 22 – OCT. 4, 1929
TIDES (FEET):
1. 12.0 Andros Island
2. 10.2 Perrine, Florida
3. 8.8 Garden Cove, Florida
WINDS (MPH):
1. 150 (est.) Key Largo, Florida
2. 120-140 Nassau, Bahamas
3. 100 Everglades, Florida
PRESSURE (INCHES):
1. 27.30 Ship (uncorrected)
2. 27.64 Nassau, Bahamas
3. 28.00 Key Largo, Florida
4. 28.18 Long Key, Florida
5. 28.80 Panama City, Florida
6. 28.95 Everglades, Florida
LIVES LOST:
1. 3 in Florida
2. Many killed in Nassau, Bahamas
3. 254 Andros Island
Damage was $821,000 in Florida
R.L.C.
J.G.L.

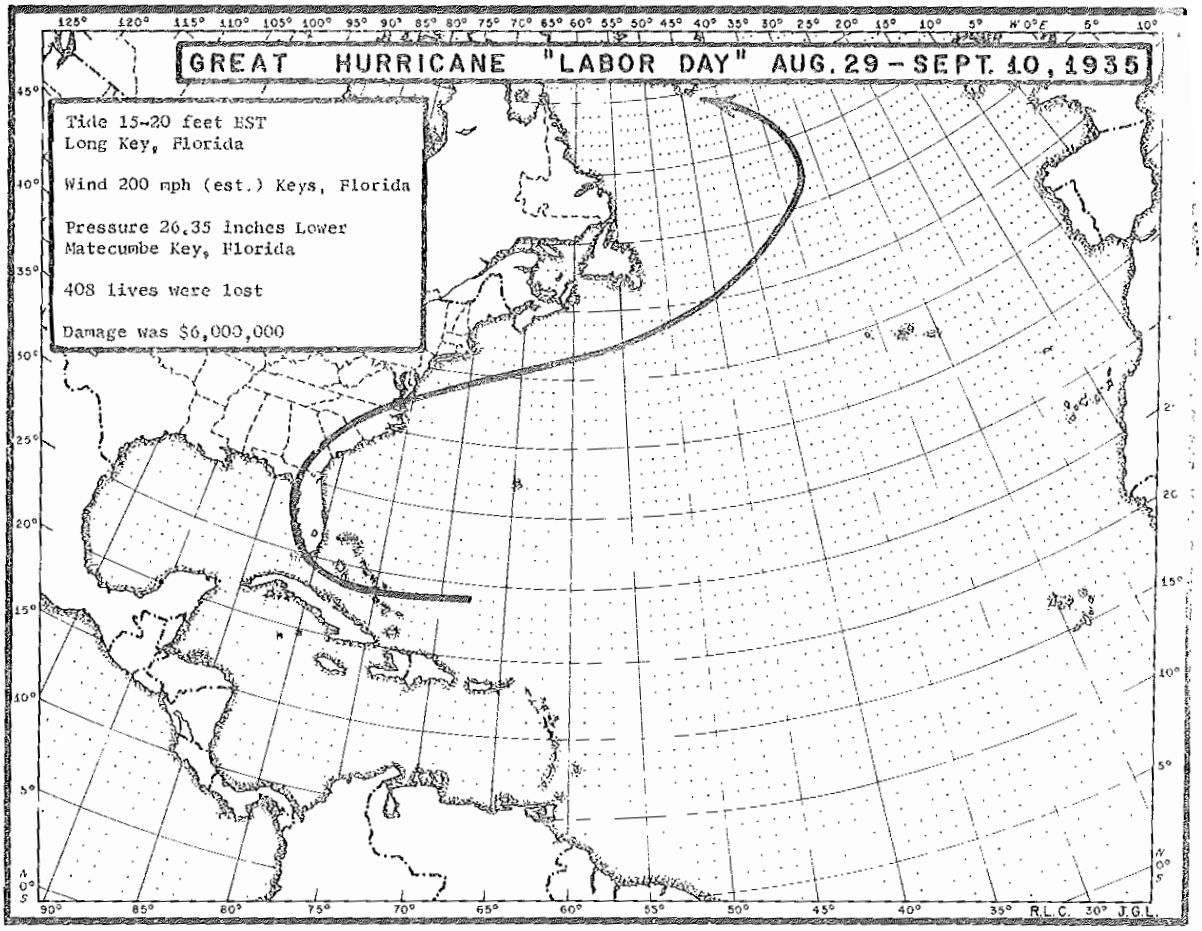

GREAT HURRICANE AUG. 11 – 14, 1932
Wind 100 mph (est.) Columbia, Texas
PRESSURE (INCHES):
1. 27.82 S.S. Nicarao
2. 27.83 East Columbia, Texas
3. 28.03 Freeport, Texas
40 lives were lost.
Damage was $7,500,000.
R.L.C.
J.G.L.

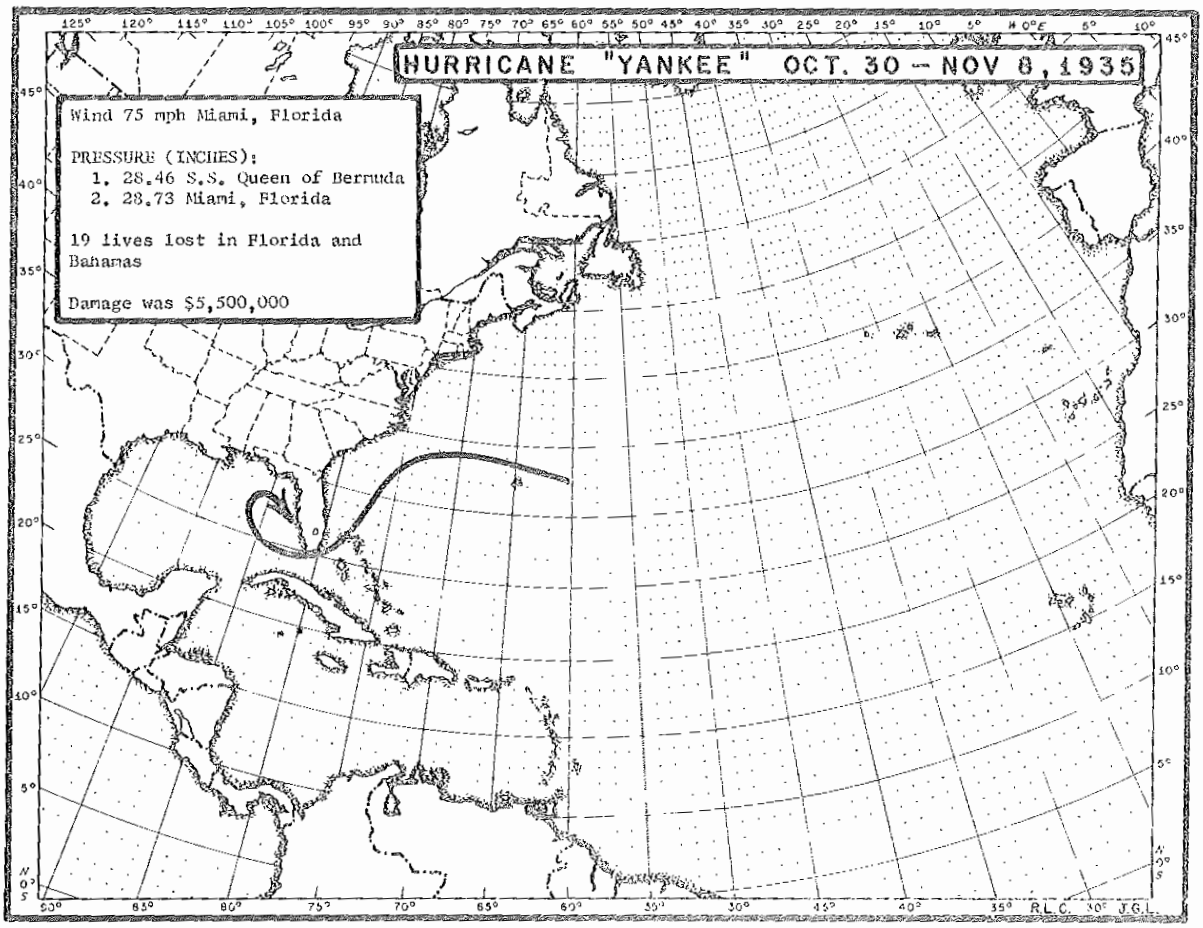

GREAT HURRICANE AUG. 17 – 26, 1933
Tide 7 feet, Norfolk, Virginia
WINDS (MPH):
1. 68 Cape Henry, Virginia
2. 64 Cape Hatteras, North Carolina
PRESSURE (INCHES):
1. 27.98 S.S. Tana
2. 28.67 Cape Hatteras North Carolina
3. 28.68 Norfolk, Virginia
Damage was $21,000,000
RLC 30° JGL

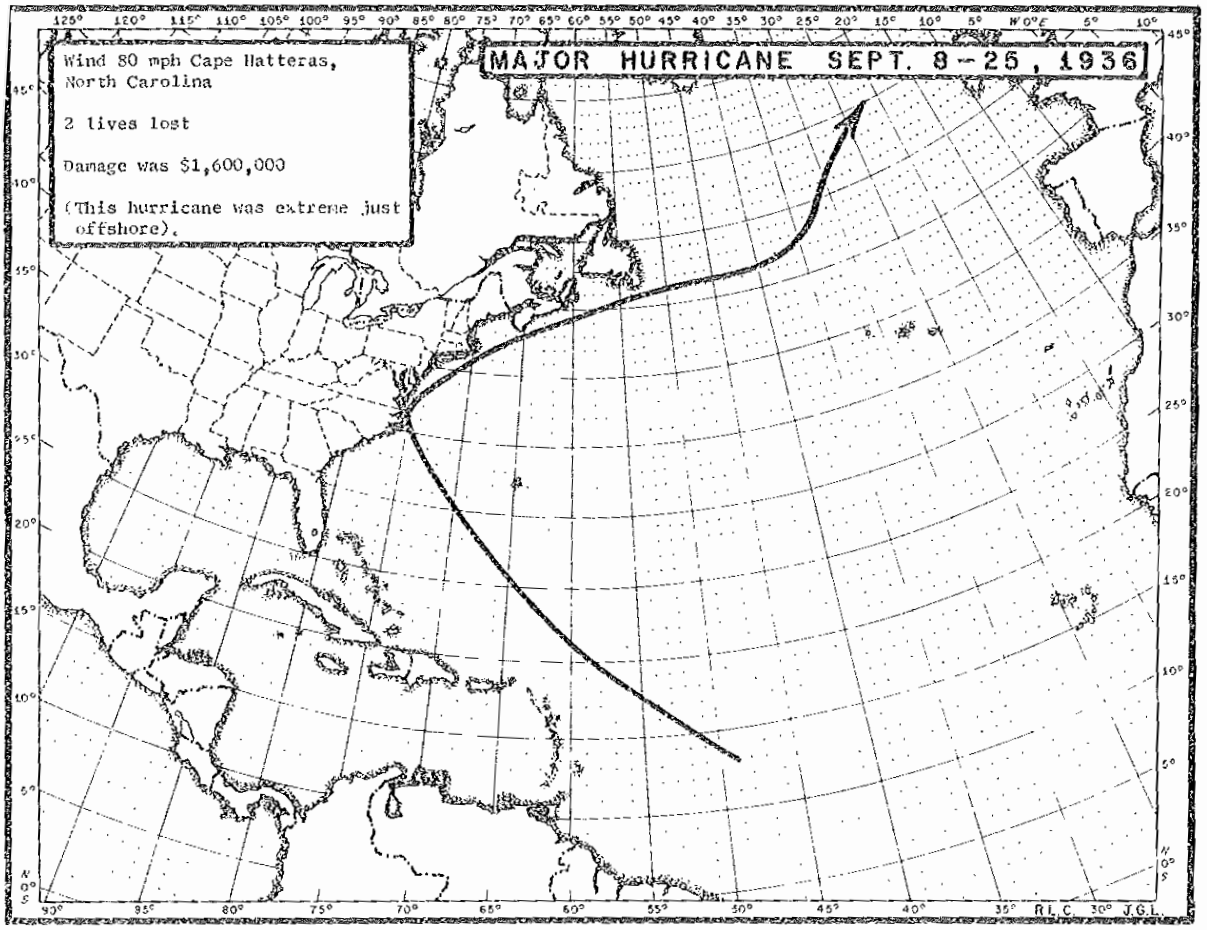

GREAT HURRICANE AUG. 28 – SEPT. 5, 1933
TIDES (FEET):
1. 12.0-15.0 Brownsville, Texas
2. 8.0 Corpus Christi, Texas
Wind 80 mph Brownsville, Texas
PRESSURE (INCHES):
1. 27.99 S.S. Harvester
2. 27.47 S.S. Jamaica Pioneer
3. 28.02 Brownsville, Texas
40 lives were lost.
Damage was $12,000,000
RLC 30° JGL

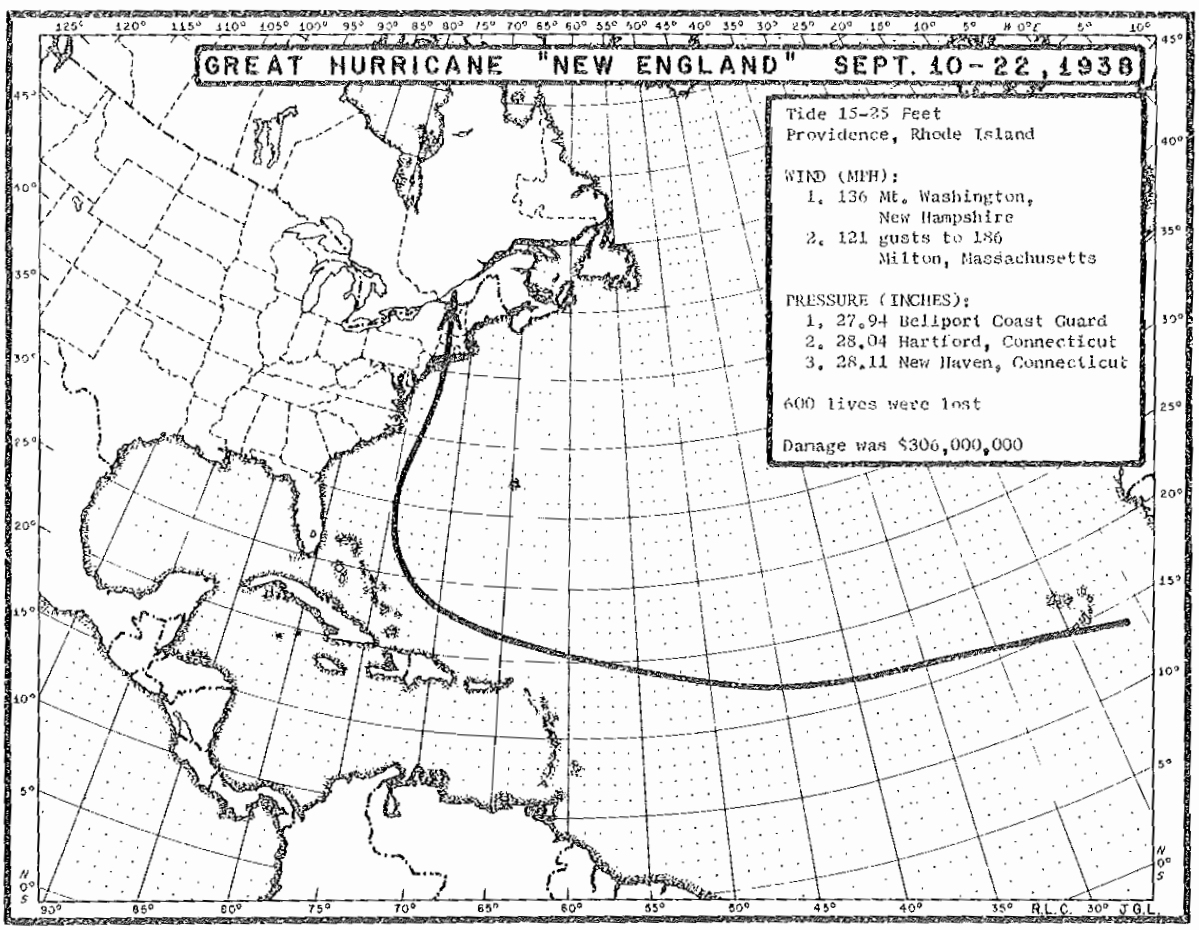

GREAT HURRICANE AUG. 31 – SEPT. 7, 1933
WINDS (MPH):
1. 140 Eleuthera, Bahamas
2. 125 Jupiter, Florida
Pressure 27.98 inches
Jupiter, Florida
2 lives lost
Damage was $4,120,000
R.L.C.
J.G.L.

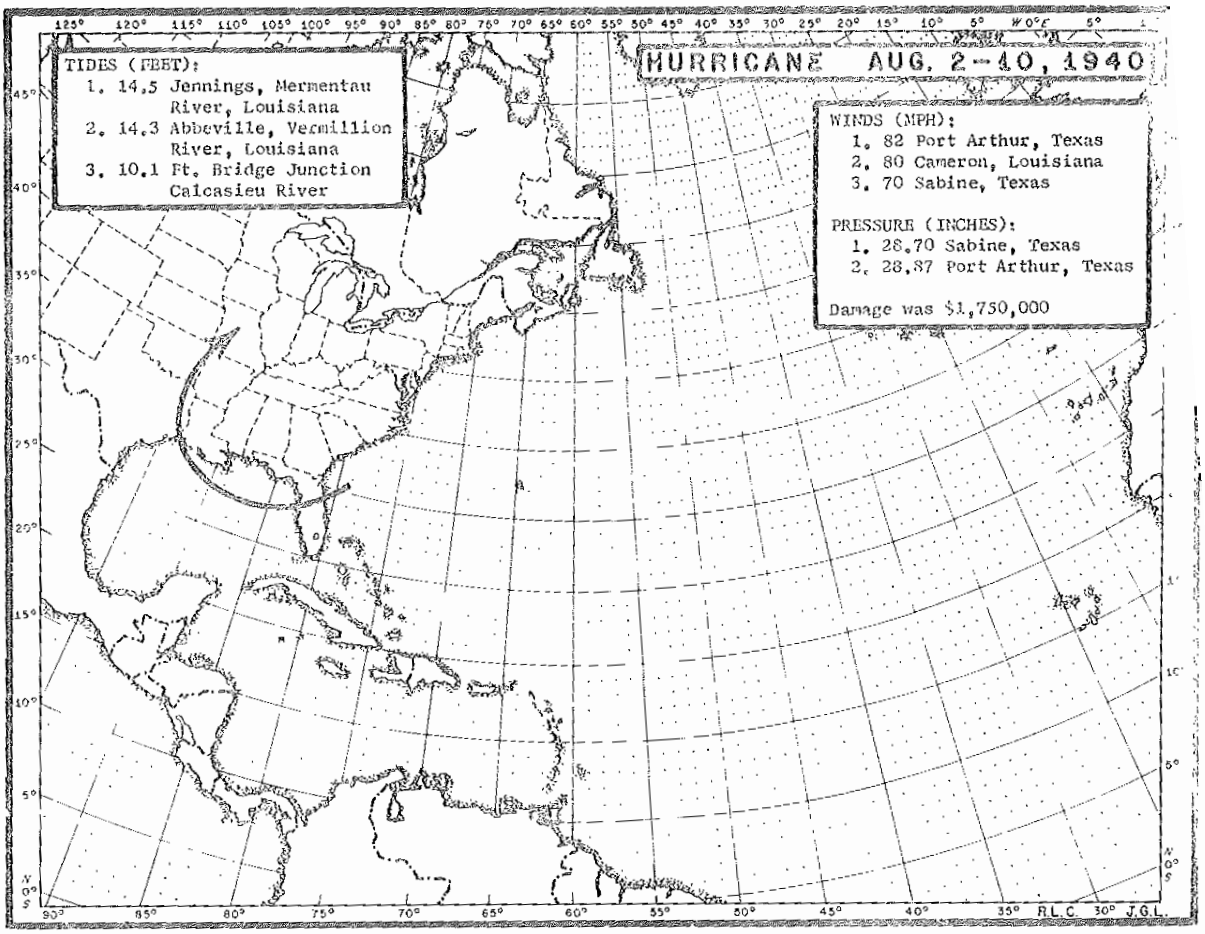

GREAT HURRICANE SEPT. 8 – 21, 1933
Wind 76 mph Cape Hatteras
North Carolina
PRESSURE (INCHES):
1. 27.96 S.S. Washington
2. 28.25 Cape Hatteras,
North Carolina
21 lives were lost.
Damage was $1,000,000
R.L.C.
J.G.L.

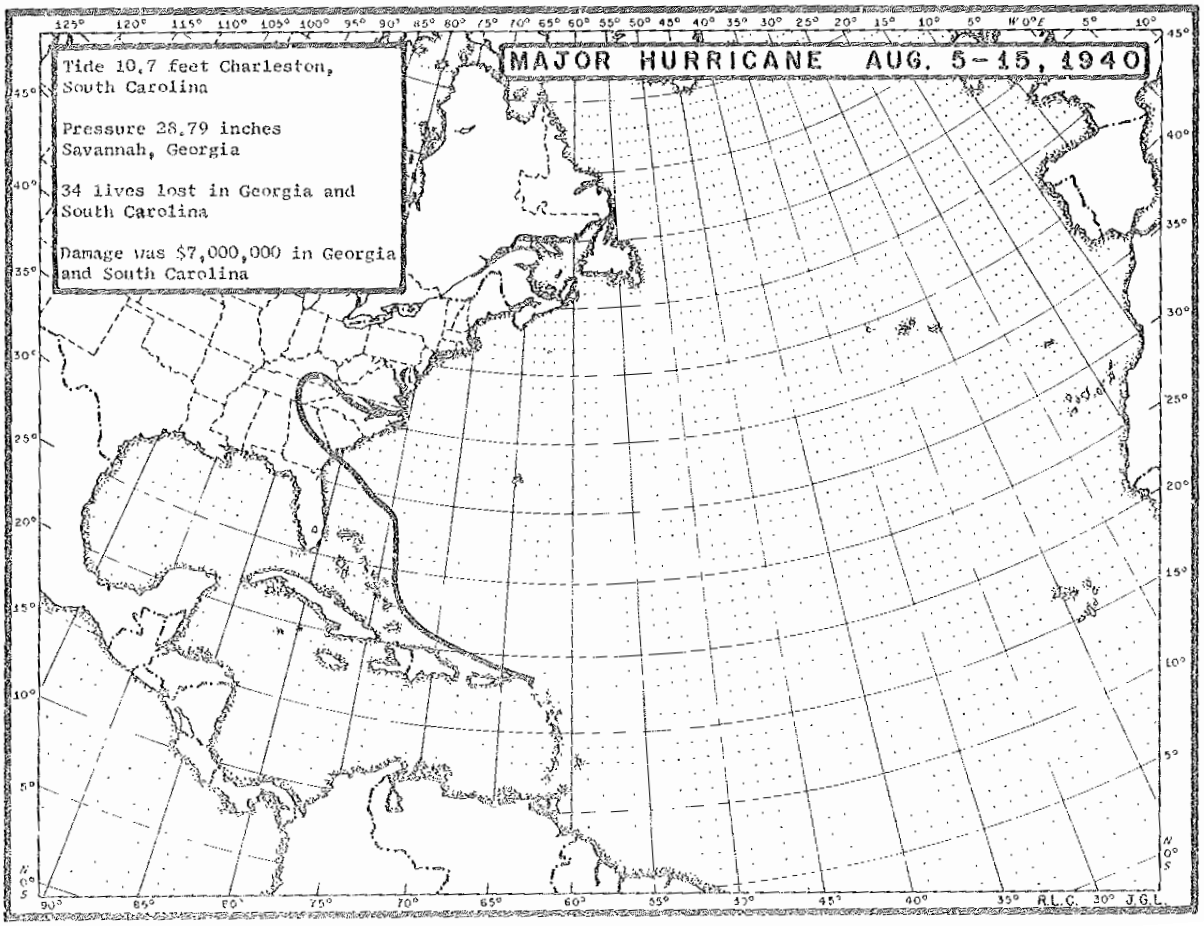

GREAT HURRICANE "LABOR DAY" AUG. 29 – SEPT. 10, 1935
Tide 15-20 feet EST
Long Key, Florida
Wind 200 mph (est.) Keys, Florida
Pressure 26.35 inches Lower
Matecumbe Key, Florida
408 lives were lost
Damage was $6,000,000
R.L.C. 30° J.G.L.

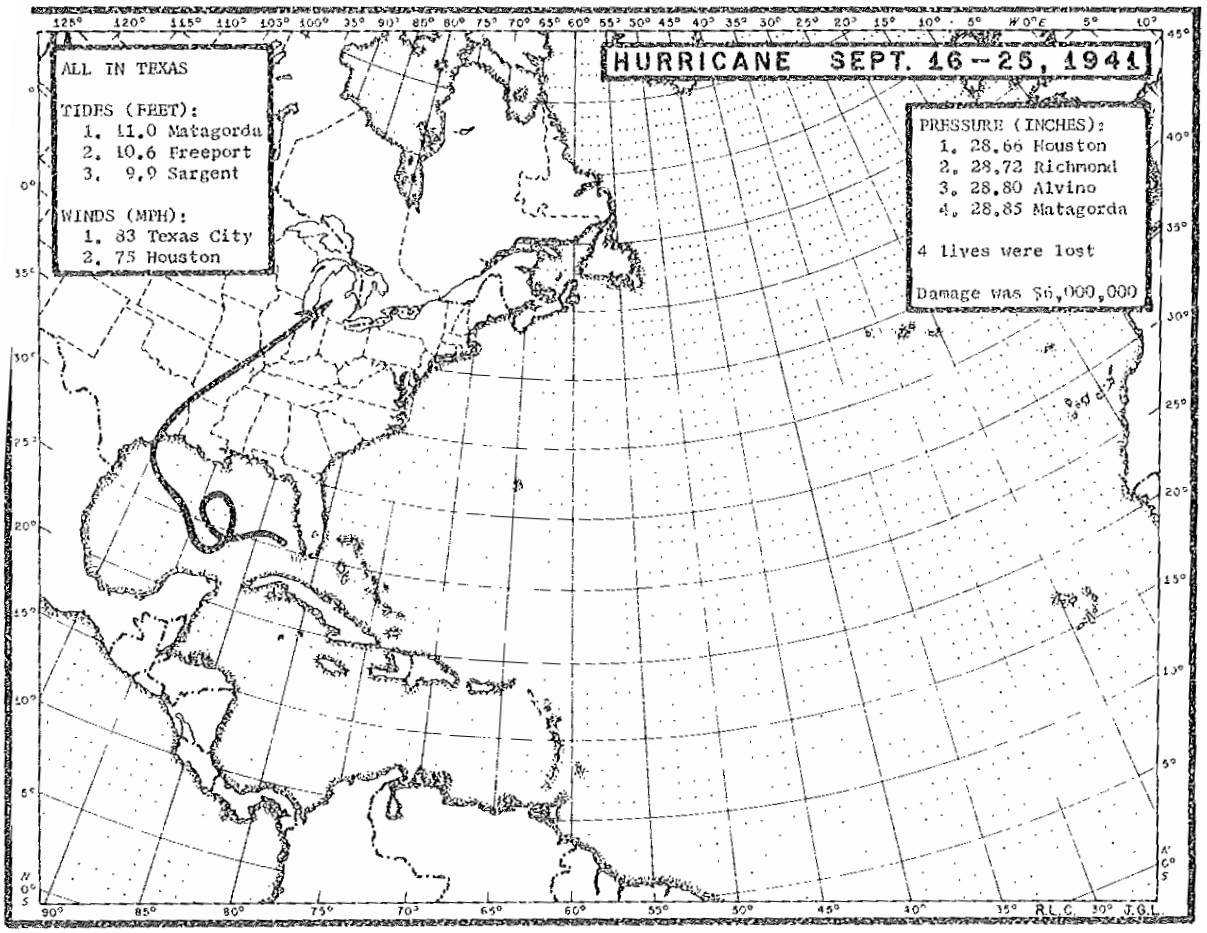

HURRICANE "YANKEE" OCT. 30 – NOV 8, 1935
Wind 75 mph Miami, Florida
PRESSURE (INCHES):
1. 28.46 S.S. Queen of Berruda
2. 28.73 Miami, Florida
19 lives lost in Florida and
Bahamas
Damage was $5,500,000
R.L.C. 10° J.G.L.

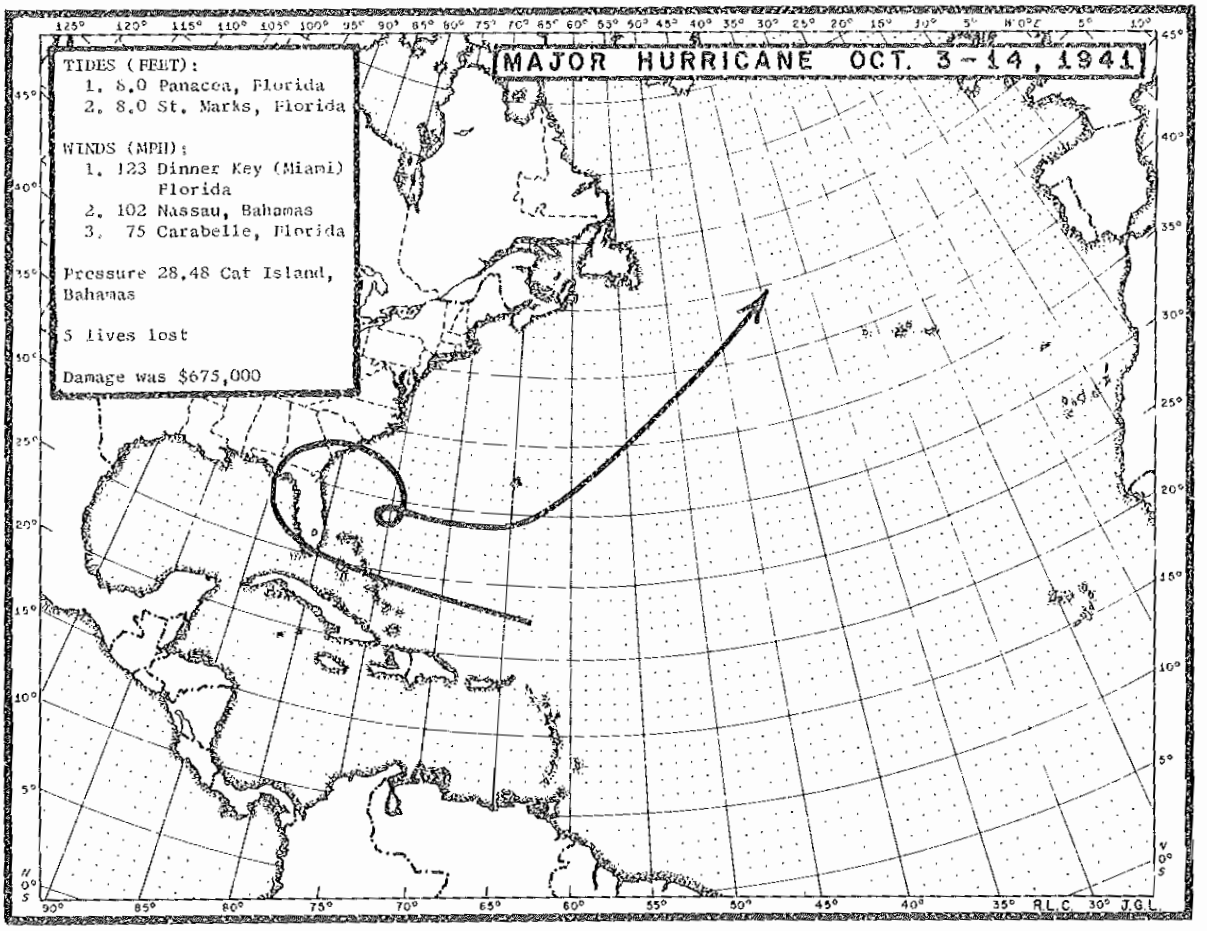

MAJOR HURRICANE SEPT. 8-25, 1936
Wind 80 mph Cape Hatteras, North Carolina
2 lives lost
Damage was $1,600,000
(This hurricane was extreme just offshore).
R.L.C. J.G.L.

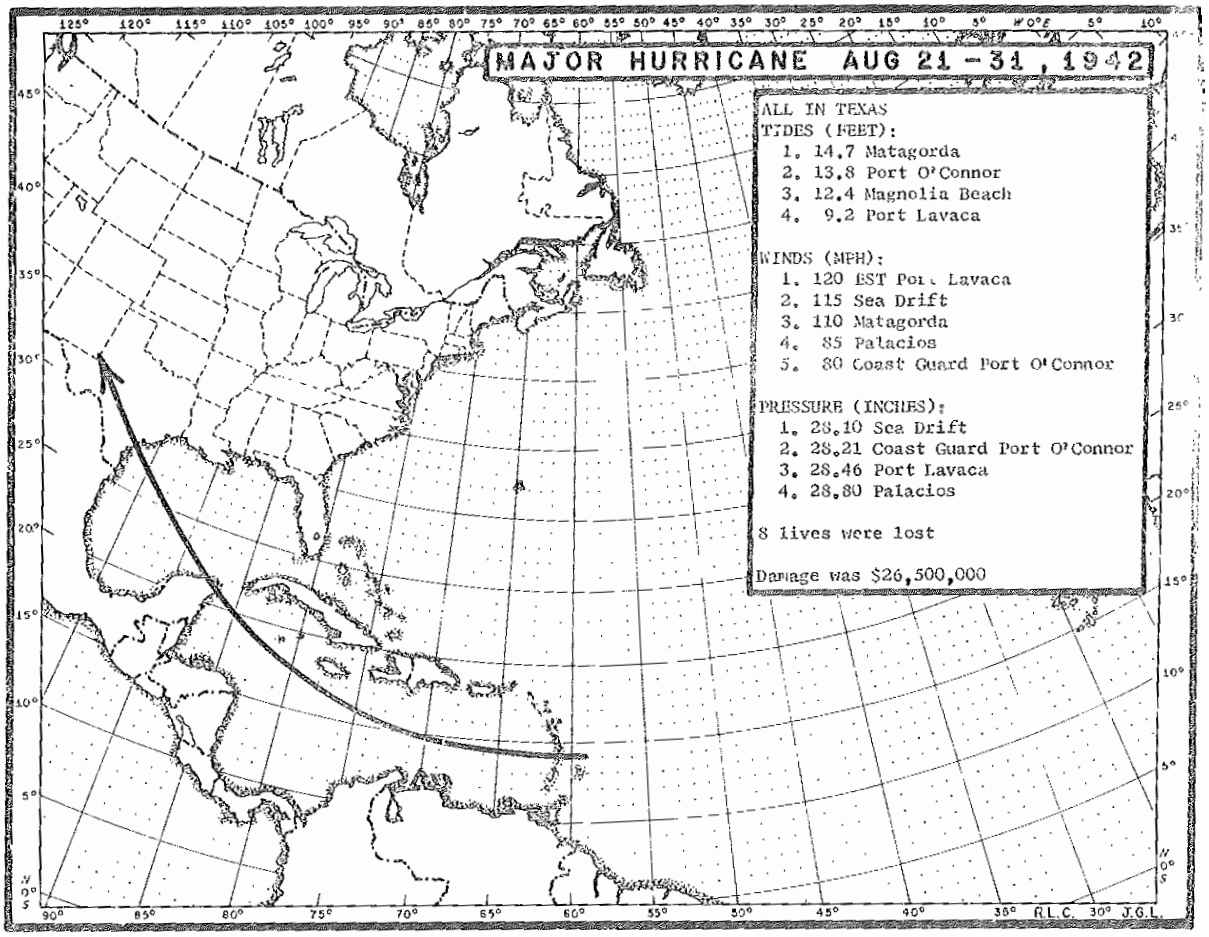

GREAT HURRICANE "NEW ENGLAND" SEPT. 10-22, 1938
Tide 15-25 Feet
Providence, Rhode Island
WIND (MPH):
1. 136 Mt. Washington, New Hampshire
2. 121 gusts to 186 Milton, Massachusetts
PRESSURE (INCHES):
1. 27.94 Bellport Coast Guard
2. 28.04 Hartford, Connecticut
3. 28.11 New Haven, Connecticut
600 lives were lost
Damage was $306,000,000
R.L.C. J.G.L.

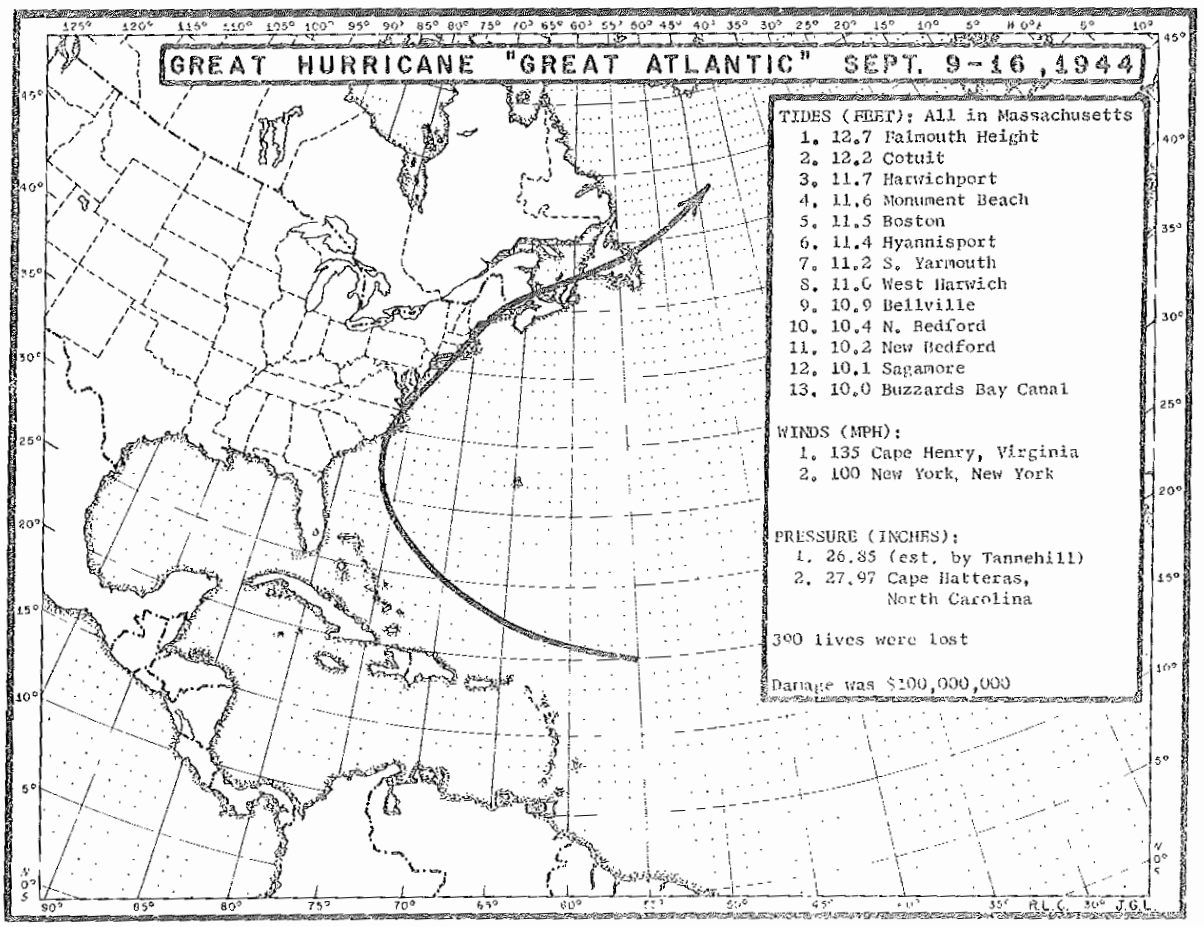

HURRICANE AUG. 2-10, 1940
TIDES (FEET):
1. 14.5 Jennings, Mermentau River, Louisiana
2. 14.3 Abbeville, Vermillion River, Louisiana
3. 10.1 Ft. Bridge Junction Calcasieu River
WINDS (MPH):
1. 82 Port Arthur, Texas
2. 80 Cameron, Louisiana
3. 70 Sabine, Texas
PRESSURE (INCHES):
1. 28.70 Sabine, Texas
2. 28.87 Port Arthur, Texas
Damage was $1,750,000
R.L.C. J.G.L.

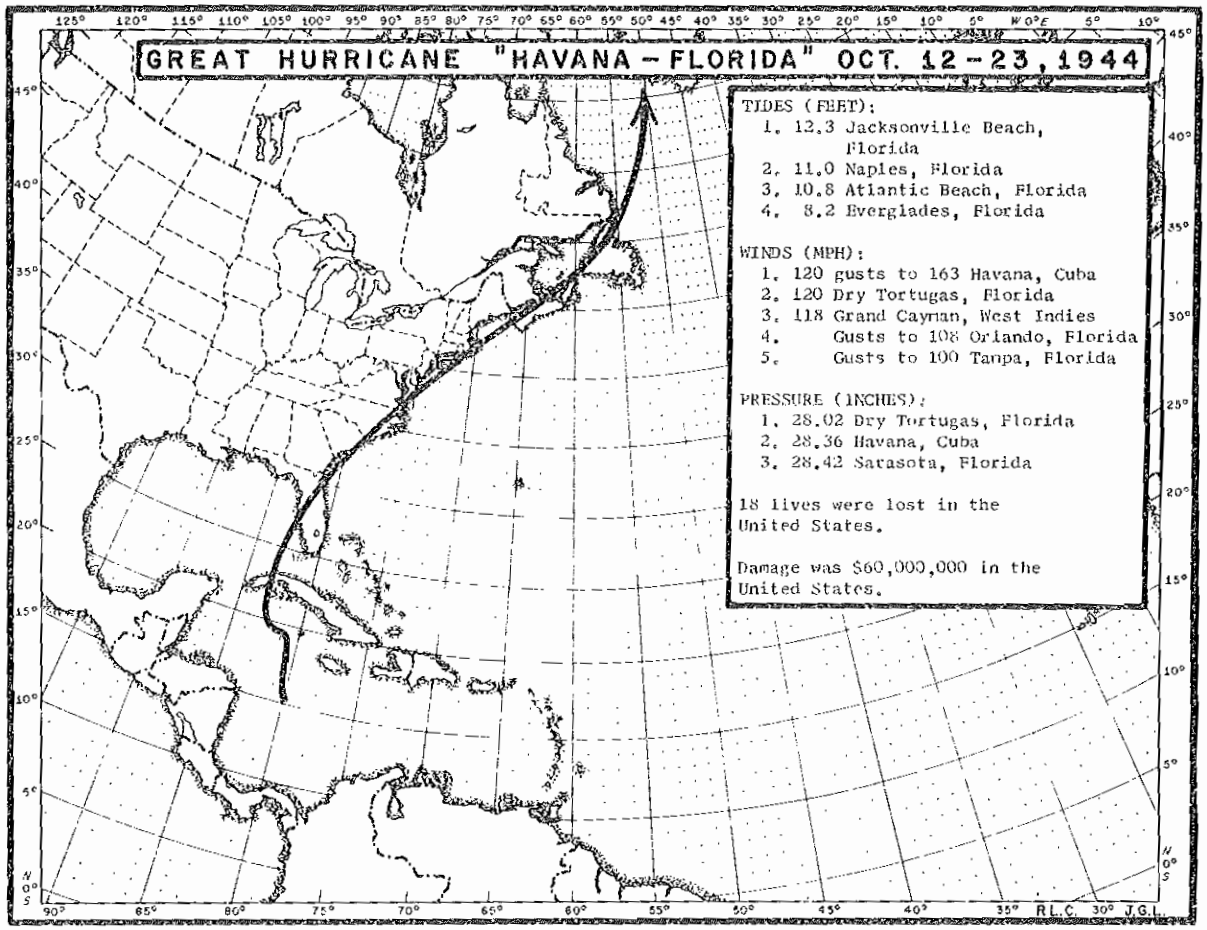

MAJOR HURRICANE AUG. 5-15, 1940
Tide 10.7 feet Charleston, South Carolina
Pressure 28.79 inches Savannah, Georgia
34 lives lost in Georgia and South Carolina
Damage was $7,000,000 in Georgia and South Carolina
R.L.C. J.G.L.

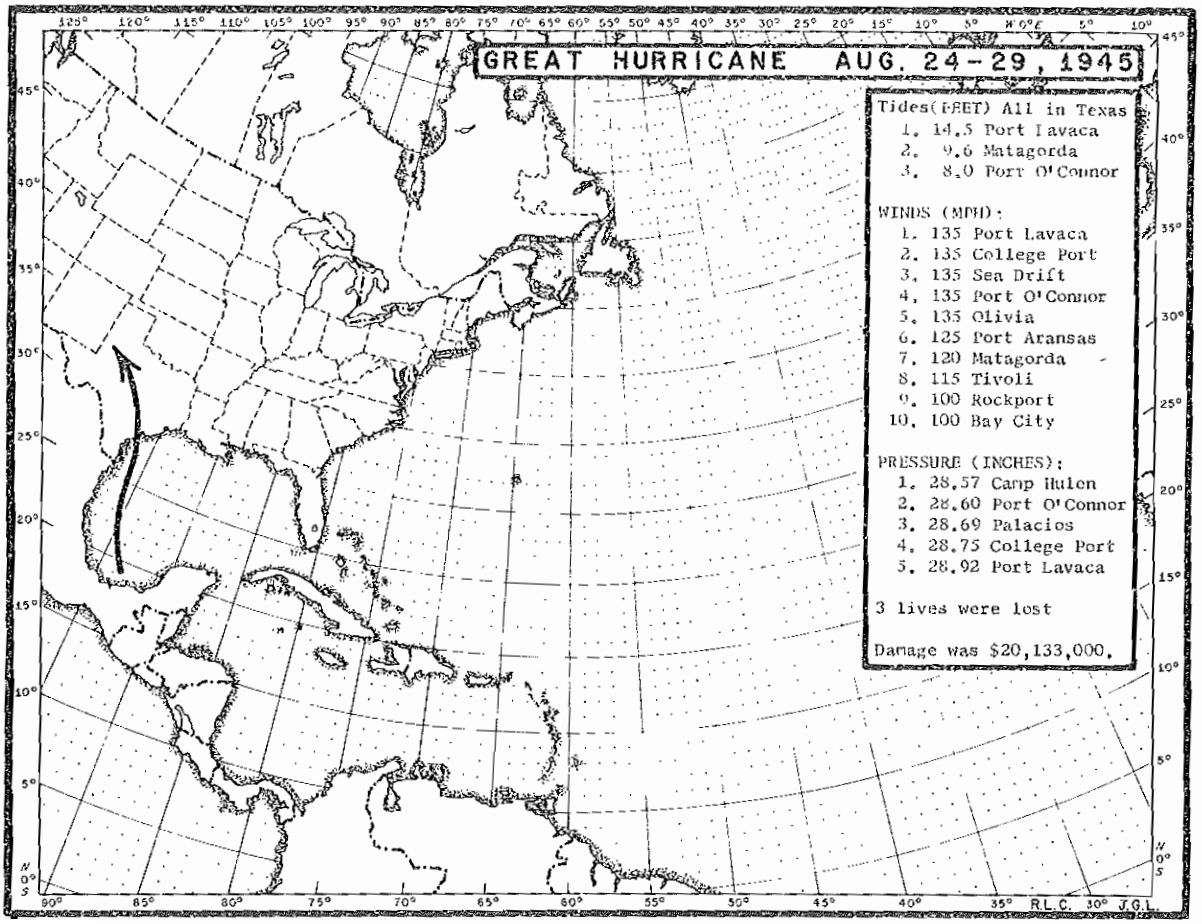

HURRICANE SEPT. 16-25, 1941
ALL IN TEXAS
TIDES (FEET):
1. 11.0 Matagorda
2. 10.6 Freeport
3. 9.9 Sargent
WINDS (MPH):
1. 83 Texas City
2. 75 Houston
PRESSURE (INCHES):
1. 28.66 Houston
2. 28.72 Richmond
3. 28.80 Alvino
4. 28.85 Matagorda
4 lives were lost
Damage was $6,000,000
R.L.C.
J.G.L.

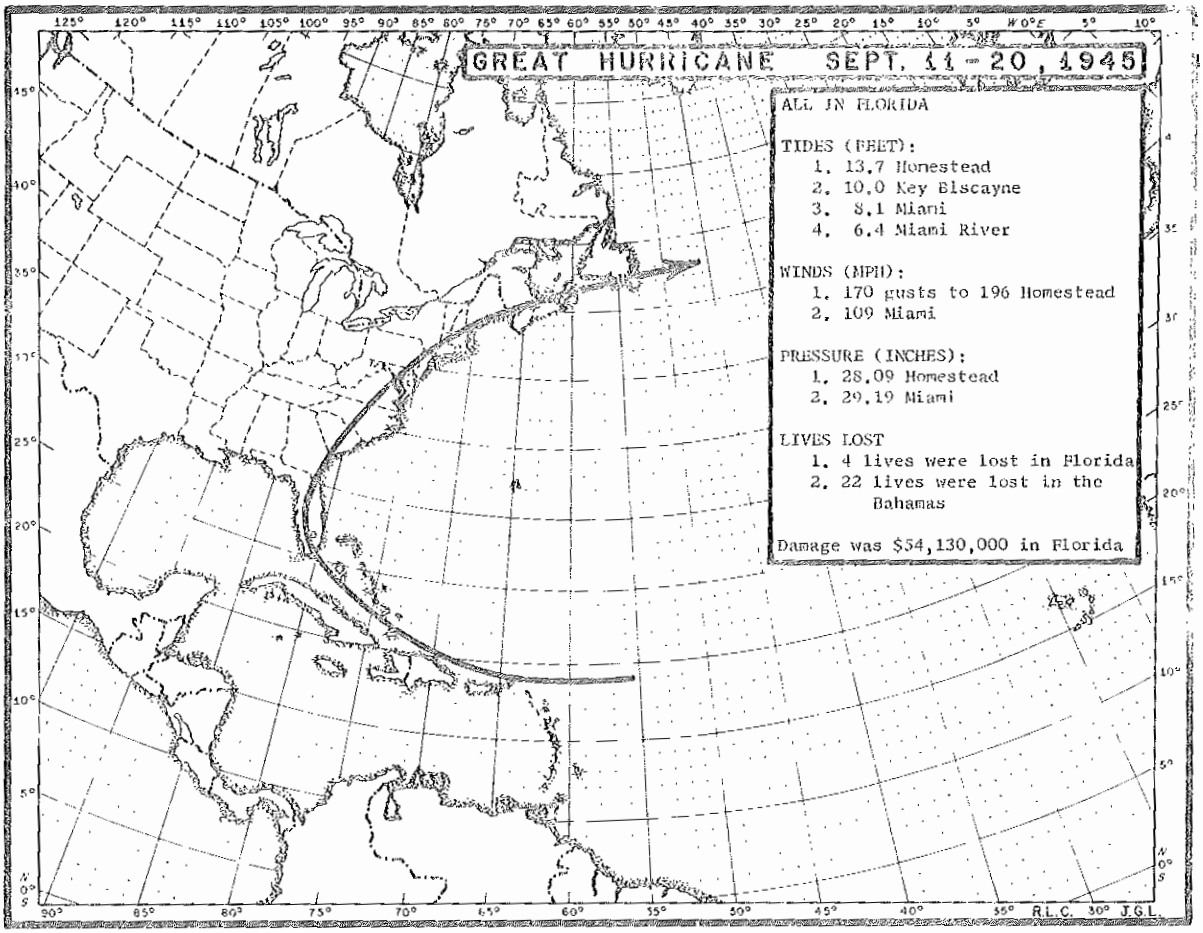

MAJOR HURRICANE OCT. 3-14, 1941
TIDES (FEET):
1. 8.0 Panacea, Florida
2. 8.0 St. Marks, Florida
WINDS (MPH):
1. 123 Dinner Key (Miami) Florida
2. 102 Nassau, Bahamas
3. 75 Carabelle, Florida
Pressure 28.48 Cat Island, Bahamas
5 lives lost
Damage was $675,000
R.L.C.
J.G.L.

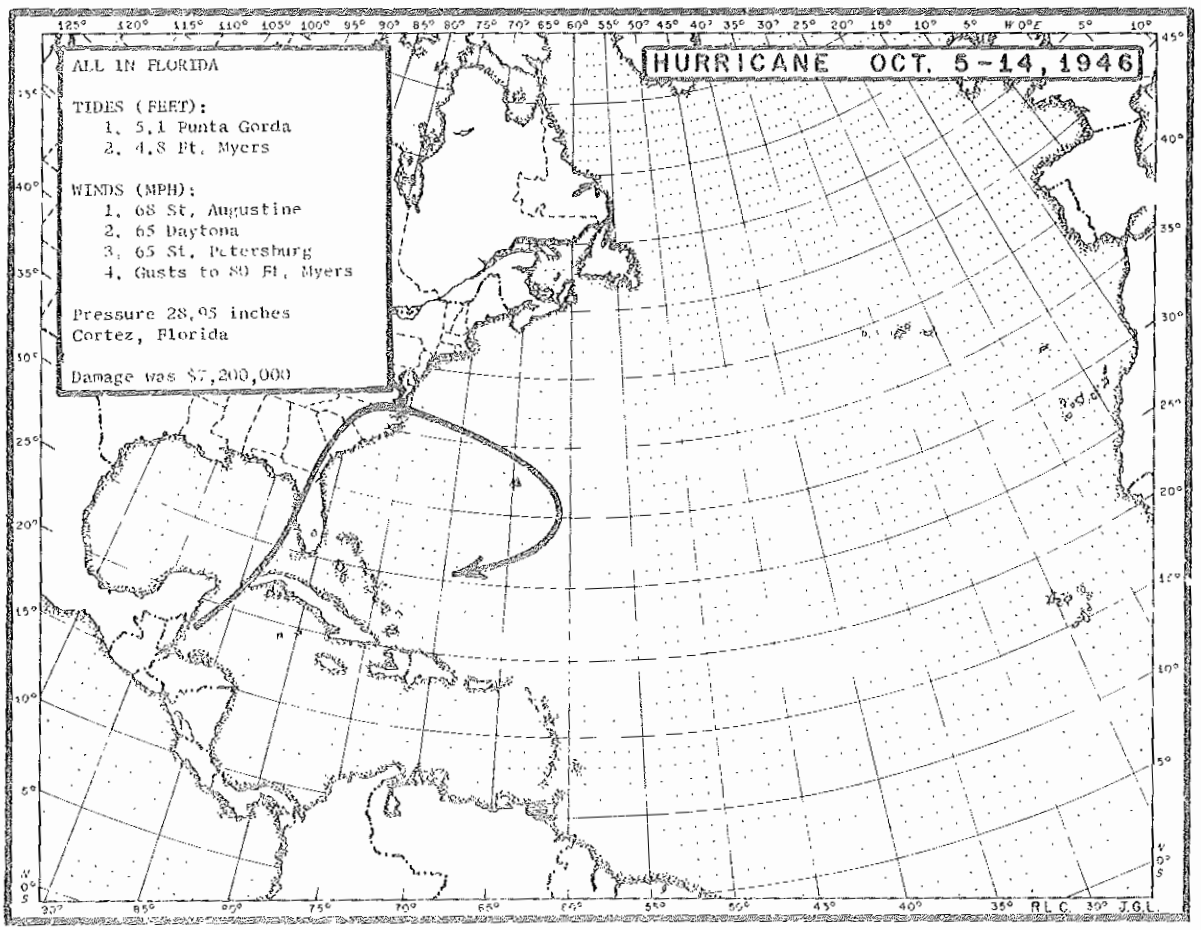

MAJOR HURRICANE AUG 21 - 31 , 1942
ALL IN TEXAS
TIDES (FEET):
1. 14.7 Matagorda
2. 13.8 Port O'Connor
3. 12.4 Magnolia Beach
4. 9.2 Port Lavaca
WINDS (MPH):
1. 120 EST Port Lavaca
2. 115 Sea Drift
3. 110 Matagorda
4. 85 Palacios
5. 80 Coast Guard Port O'Connor
PRESSURE (INCHES):
1. 28.10 Sea Drift
2. 28.21 Coast Guard Port O'Connor
3. 28.46 Port Lavaca
4. 28.80 Palacios
8 lives were lost
Damage was $26,500,000
R.L.C. J.G.L.

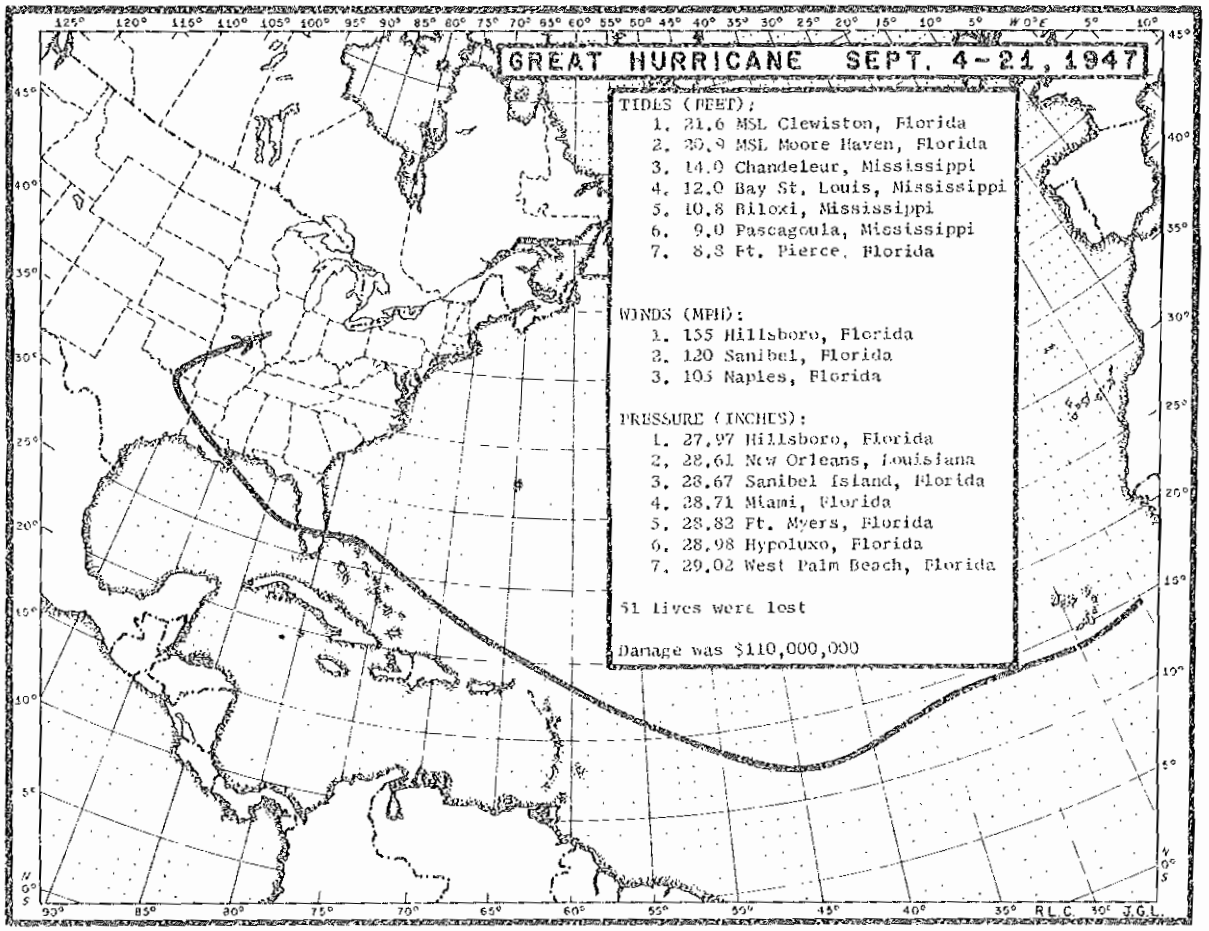

GREAT HURRICANE "GREAT ATLANTIC" SEPT. 9-16 ,1944
TIDES (FEET): All in Massachusetts
1. 12.7 Falmouth Height
2. 12.2 Cotuit
3. 11.7 Harwichport
4. 11.6 Monument Beach
5. 11.5 Boston
6. 11.4 Hyannisport
7. 11.2 S. Yarmouth
8. 11.0 West Harwich
9. 10.9 Bellville
10. 10.4 N. Bedford
11. 10.2 New Bedford
12. 10.1 Sagamore
13. 10.0 Buzzards Bay Canal
WINDS (MPH):
1. 135 Cape Henry, Virginia
2. 100 New York, New York
PRESSURE (INCHES):
1. 26.85 (est. by Tannehill)
2. 27.97 Cape Hatteras, North Carolina
300 lives were lost
Damage was $100,000,000
R.L.C. J.G.L.

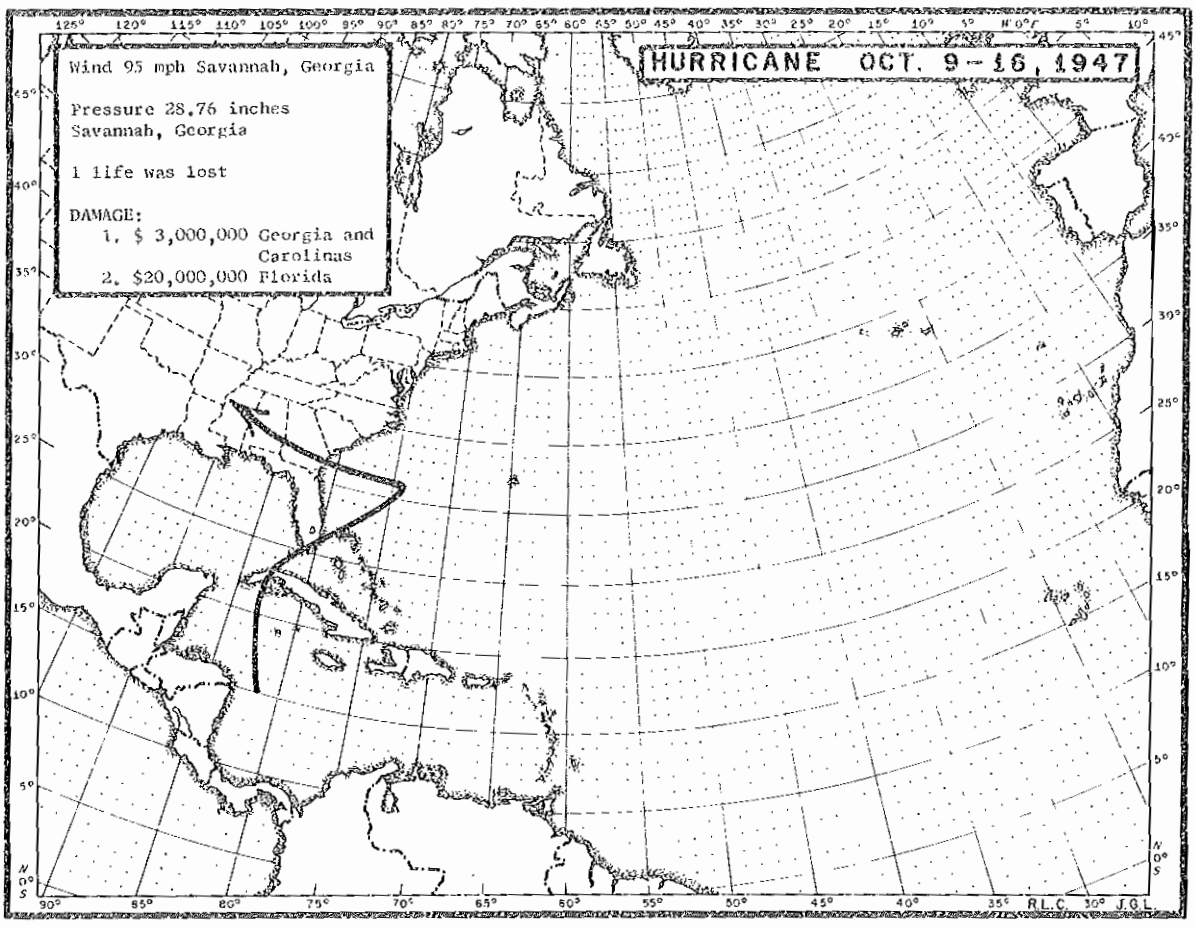

GREAT HURRICANE "HAVANA - FLORIDA" OCT. 12 - 23, 1944
TIDES (FEET):
1. 12.3 Jacksonville Beach, Florida
2. 11.0 Naples, Florida
3. 10.8 Atlantic Beach, Florida
4. 8.2 Everglades, Florida
WINDS (MPH):
1. 120 gusts to 163 Havana, Cuba
2. 120 Dry Tortugas, Florida
3. 118 Grand Cayman, West Indies
4. Gusts to 108 Orlando, Florida
5. Gusts to 100 Tampa, Florida
PRESSURE (INCHES):
1. 28.02 Dry Tortugas, Florida
2. 28.36 Havana, Cuba
3. 28.42 Sarasota, Florida
18 lives were lost in the United States.
Damage was $60,000,000 in the United States.
R.L.C.
J.G.L.

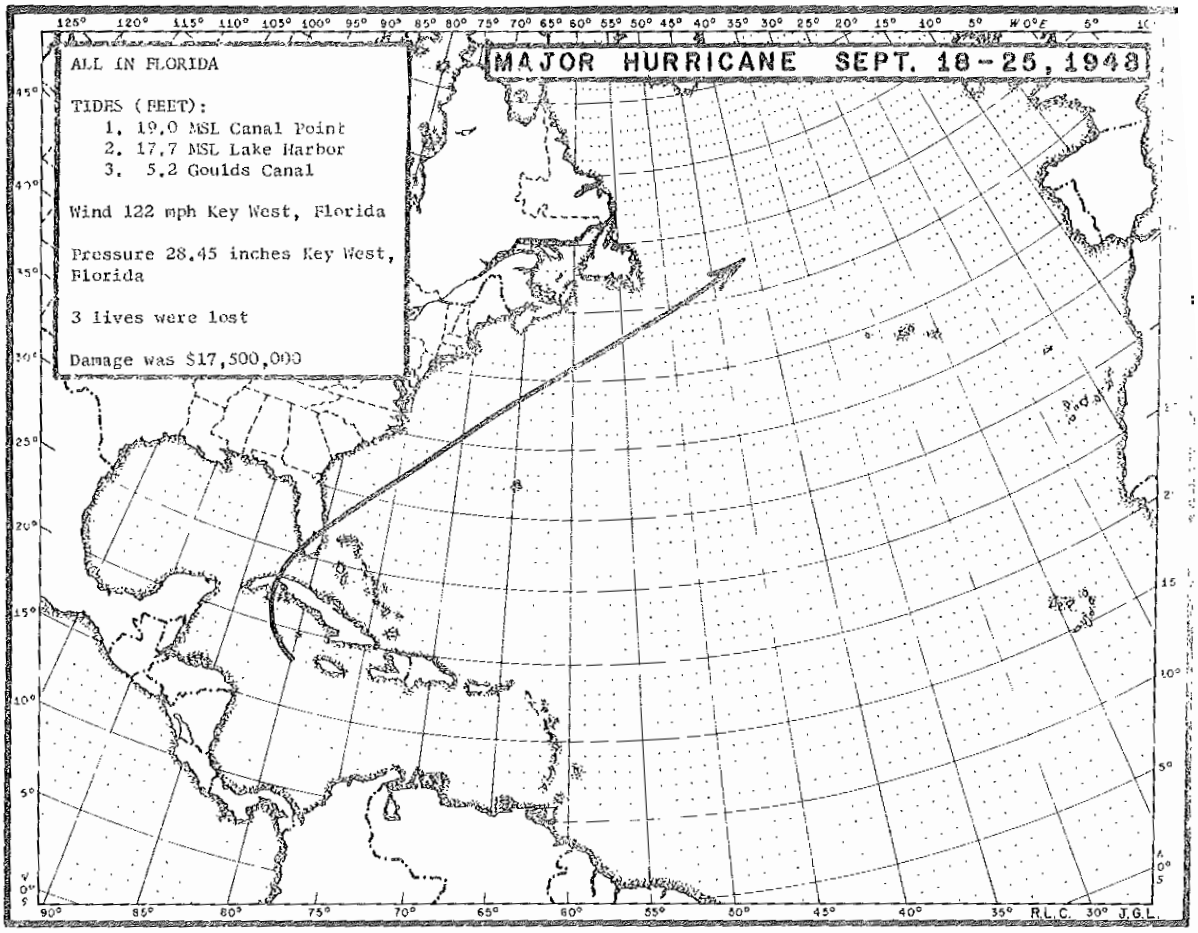

GREAT HURRICANE AUG. 24 - 29, 1945
Tides(FEET) All in Texas
1. 14.5 Port Lavaca
2. 9.6 Matagorda
3. 8.0 Port O'Connor
WINDS (MPH):
1. 135 Port Lavaca
2. 135 College Port
3. 135 Sea Drift
4. 135 Port O'Connor
5. 135 Olivia
6. 125 Port Aransas
7. 120 Matagorda
8. 115 Tivoli
9. 100 Rockport
10. 100 Bay City
PRESSURE (INCHES):
1. 28.57 Camp Hulen
2. 28.60 Port O'Connor
3. 28.69 Palacios
4. 28.75 College Port
5. 28.92 Port Lavaca
3 lives were lost
Damage was $20,133,000.
R.L.C.
J.G.L.

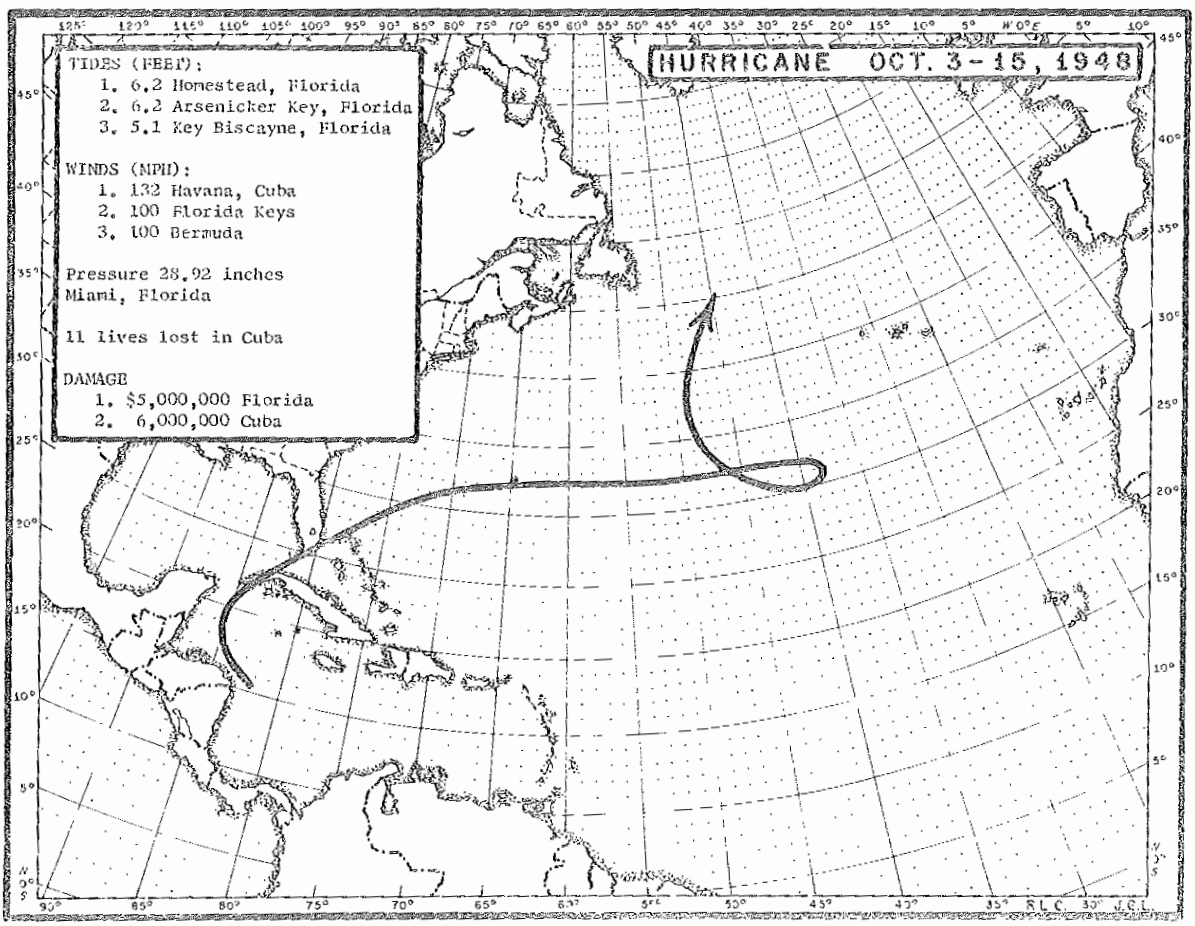

GREAT HURRICANE SEPT. 11 - 20, 1945
ALL IN FLORIDA
TIDES (FEET):
1. 13.7 Homestead
2. 10.0 Key Biscayne
3. 8.1 Miami
4. 6.4 Miami River
WINDS (MPH):
1. 170 gusts to 196 Homestead
2. 109 Miami
PRESSURE (INCHES):
1. 28.09 Homestead
2. 29.19 Miami
LIVES LOST
1. 4 lives were lost in Florida
2. 22 lives were lost in the Bahamas
Damage was $54,130,000 in Florida
R.L.C. J.G.L.

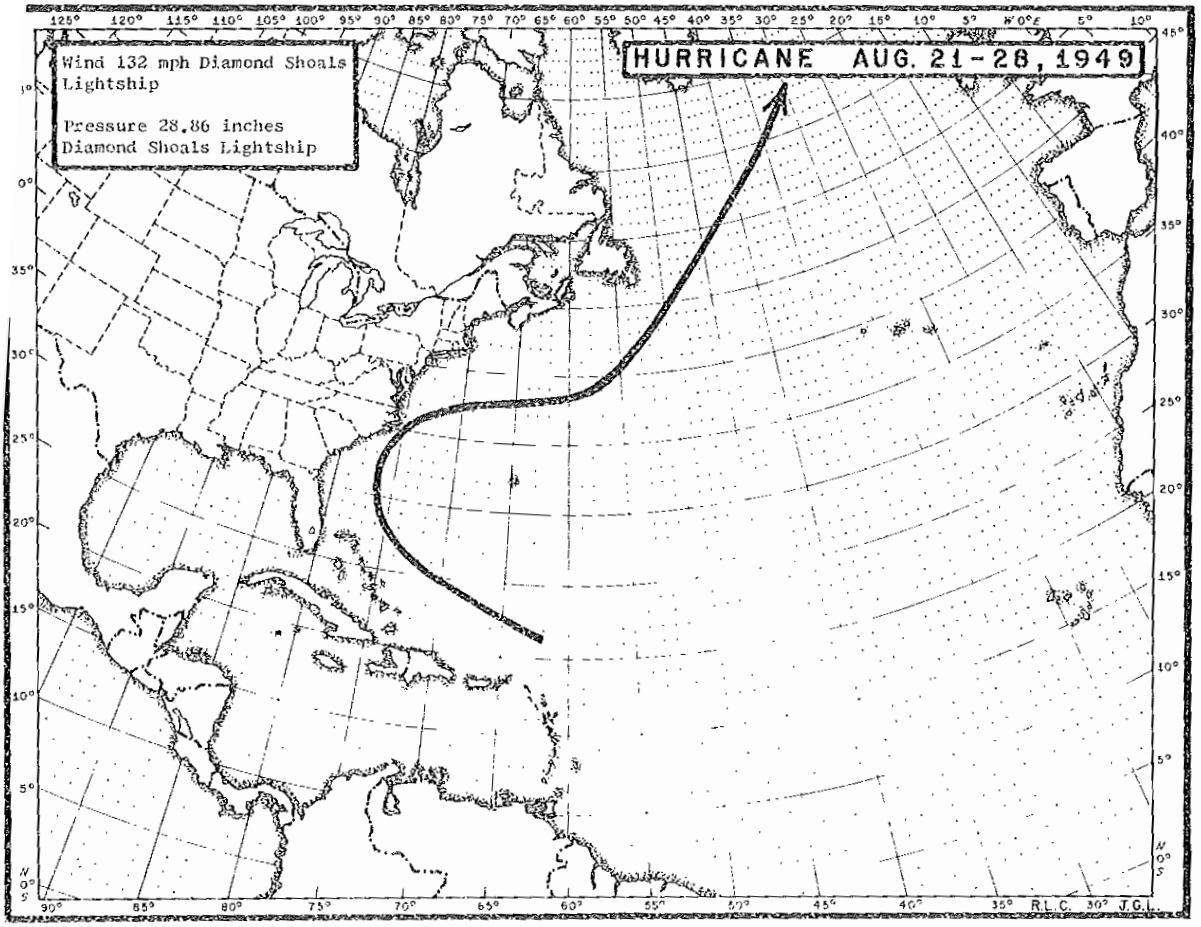

HURRICANE OCT. 5 - 14, 1946
ALL IN FLORIDA
TIDES (FEET):
1. 5.1 Punta Gorda
2. 4.8 Ft. Myers
WINDS (MPH):
1. 68 St. Augustine
2. 65 Daytona
3. 65 St. Petersburg
4. Gusts to 80 Ft. Myers
Pressure 28.05 inches
Cortez, Florida
Damage was $7,200,000
R.L.C. J.G.L.

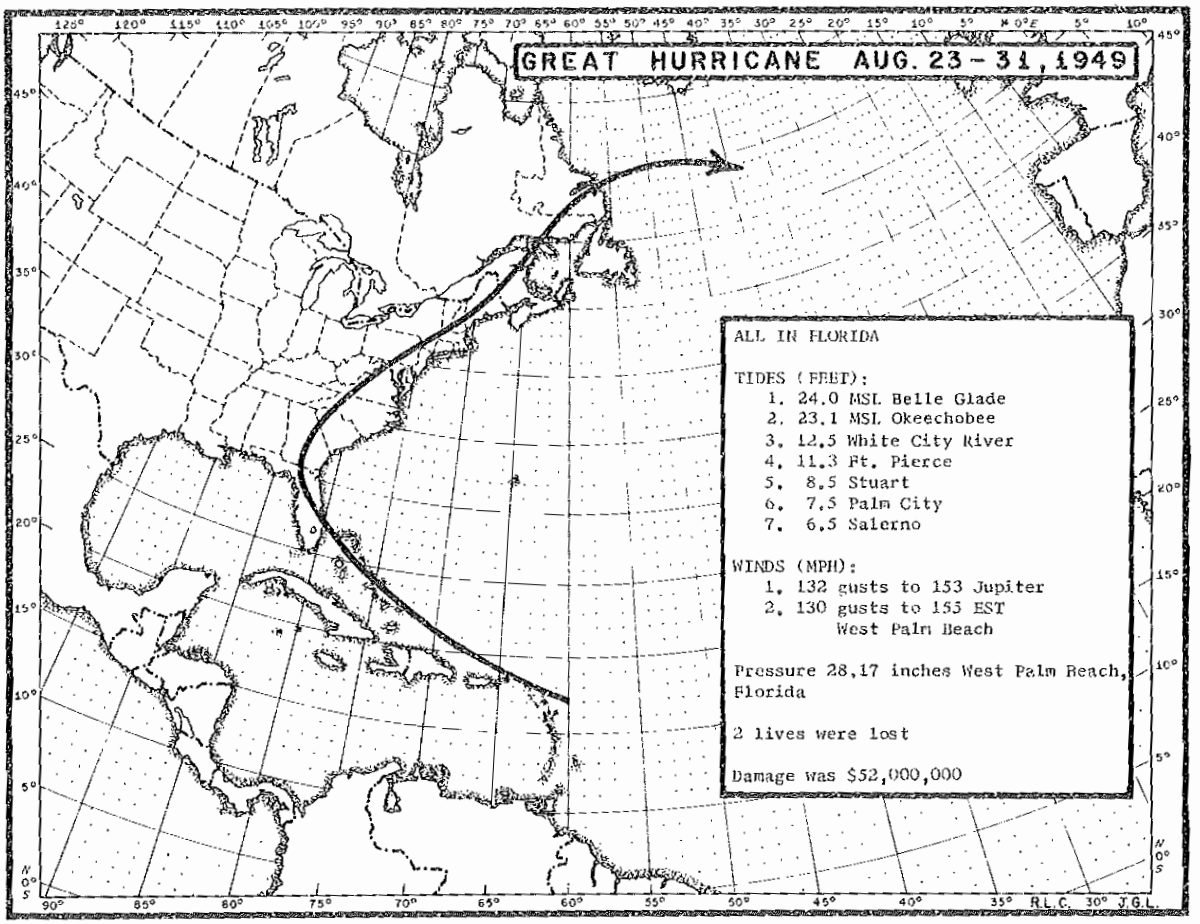

GREAT HURRICANE SEPT. 4-21, 1947
TIDES (FEET):
1. 21.6 MSL Clewiston, Florida
2. 20.9 MSL Moore Haven, Florida
3. 14.0 Chandeleur, Mississippi
4. 12.0 Bay St. Louis, Mississippi
5. 10.8 Biloxi, Mississippi
6. 9.0 Pascagoula, Mississippi
7. 8.3 Ft. Pierce, Florida
WINDS (MPH):
1. 155 Hillsboro, Florida
2. 120 Sanibel, Florida
3. 105 Naples, Florida
PRESSURE (INCHES):
1. 27.97 Hillsboro, Florida
2. 28.61 New Orleans, Louisiana
3. 28.67 Sanibel Island, Florida
4. 28.71 Miami, Florida
5. 28.82 Ft. Myers, Florida
6. 28.98 Hypoluxo, Florida
7. 29.02 West Palm Beach, Florida
51 lives were lost
Damage was $110,000,000
R.L.C.
J.G.L.

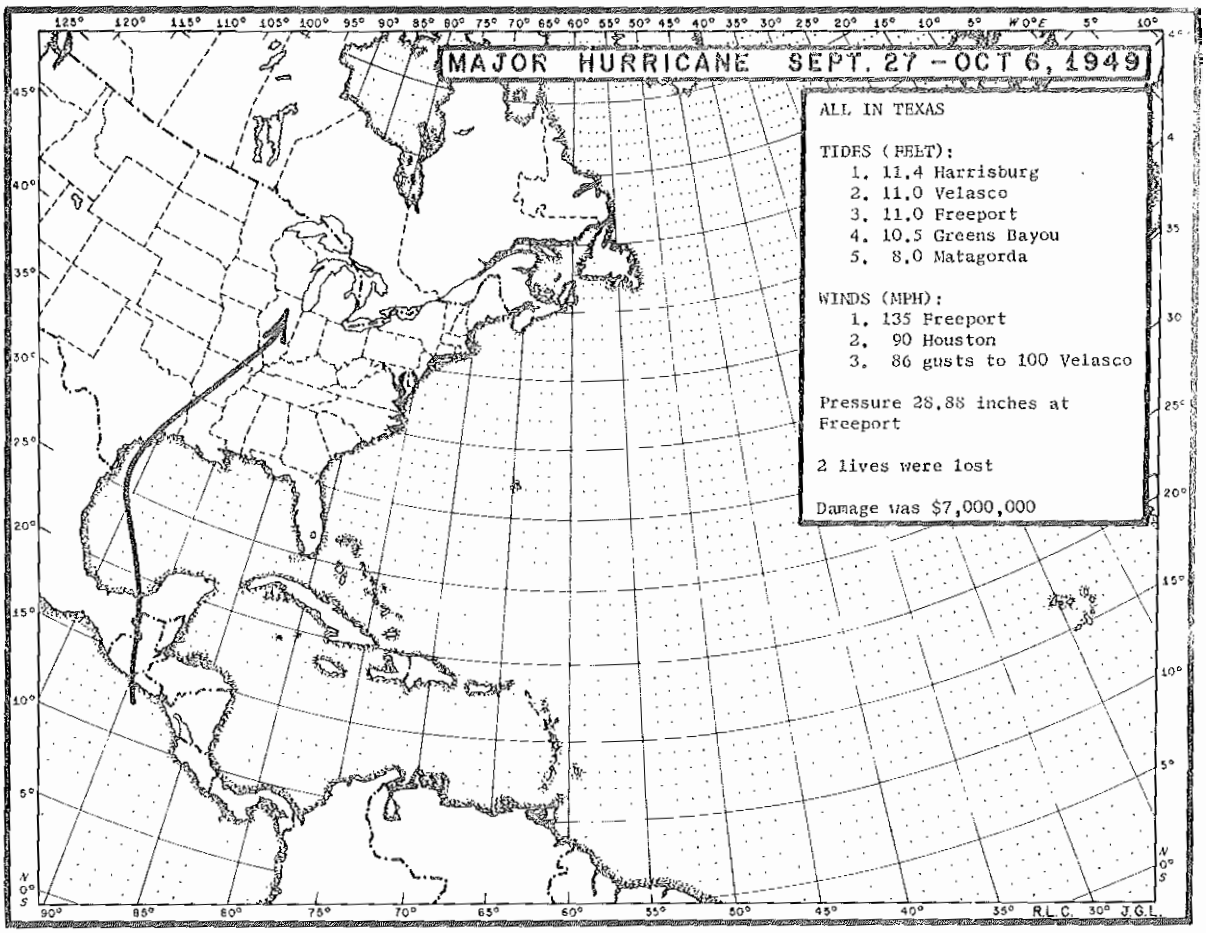

HURRICANE OCT. 9-16, 1947
Wind 95 mph Savannah, Georgia
Pressure 28.76 inches
Savannah, Georgia
1 life was lost
DAMAGE:
1. $ 3,000,000 Georgia and Carolinas
2. $20,000,000 Florida
R.L.C.
J.G.L.

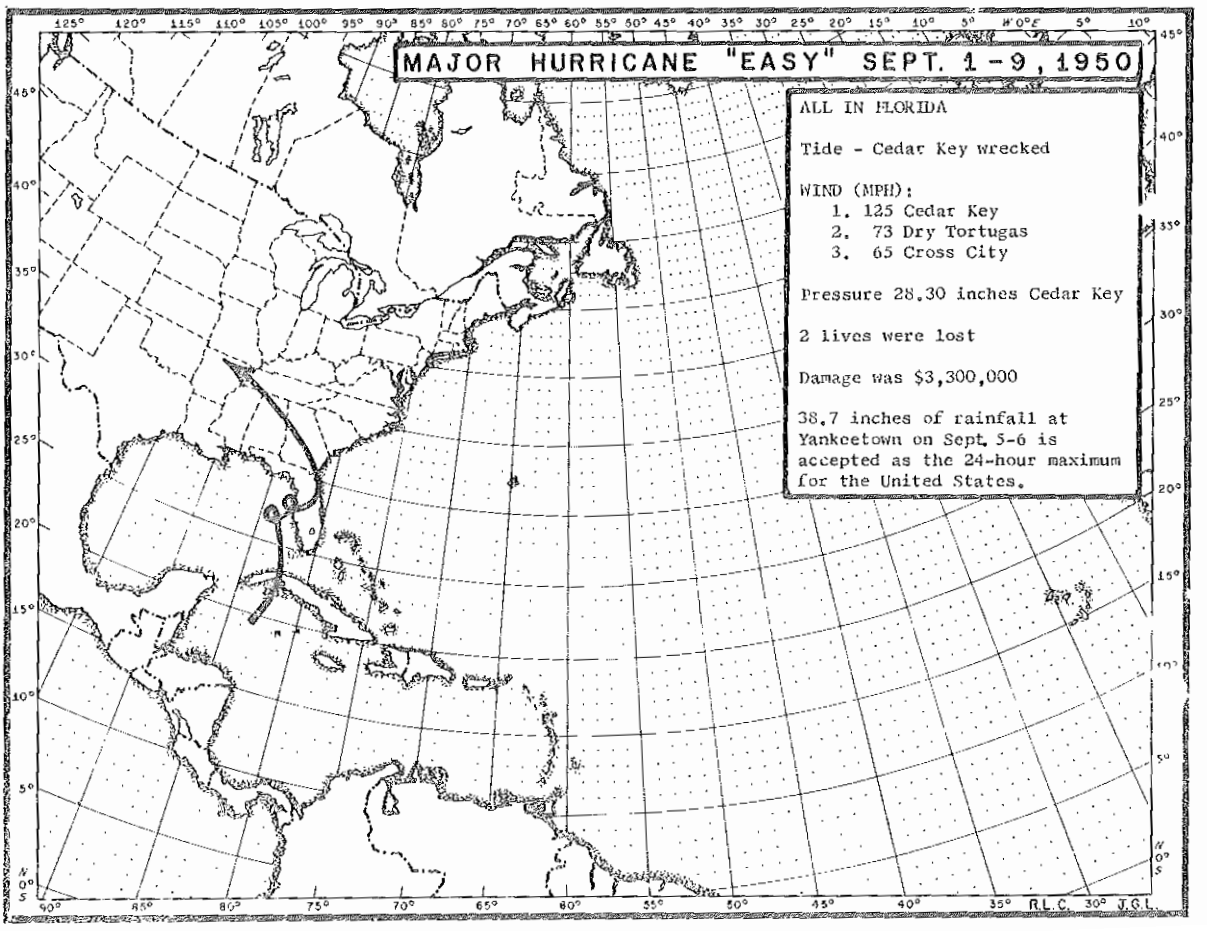

MAJOR HURRICANE SEPT. 18-25, 1948
ALL IN FLORIDA
TIDES (FEET):
1. 19.0 MSL Canal Point
2. 17.7 MSL Lake Harbor
3. 5.2 Goulds Canal
Wind 122 mph Key West, Florida
Pressure 28.45 inches Key West, Florida
3 lives were lost
Damage was $17,500,000
R.L.C. 30° J.G.L.

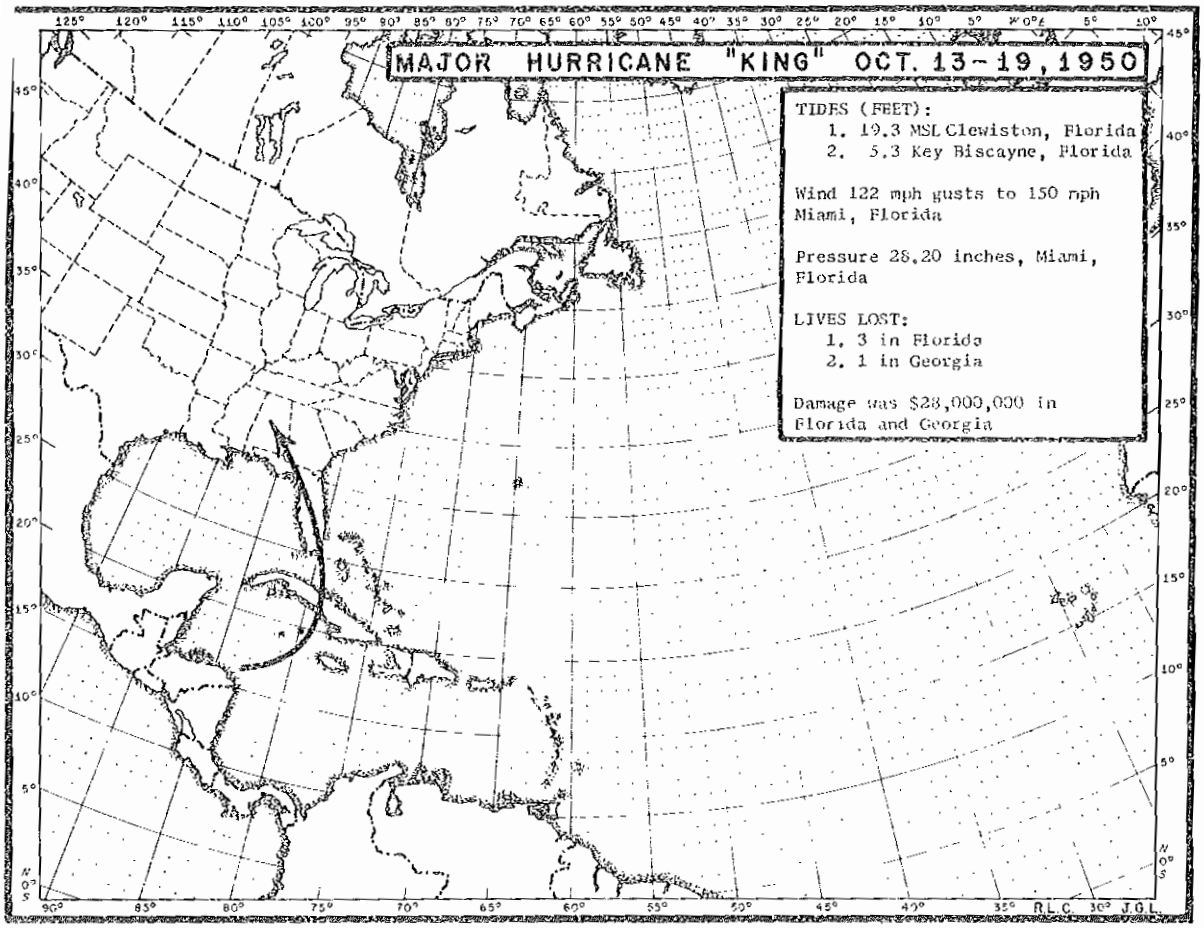

HURRICANE OCT. 3-15, 1948
TIDES (FEET):
1. 6.2 Homestead, Florida
2. 6.2 Arsenicker Key, Florida
3. 5.1 Key Biscayne, Florida
WINDS (MPH):
1. 132 Havana, Cuba
2. 100 Florida Keys
3. 100 Bermuda
Pressure 28.92 inches Miami, Florida
11 lives lost in Cuba
DAMAGE
1. $5,000,000 Florida
2. 6,000,000 Cuba
R.L.C. 30° J.G.L.

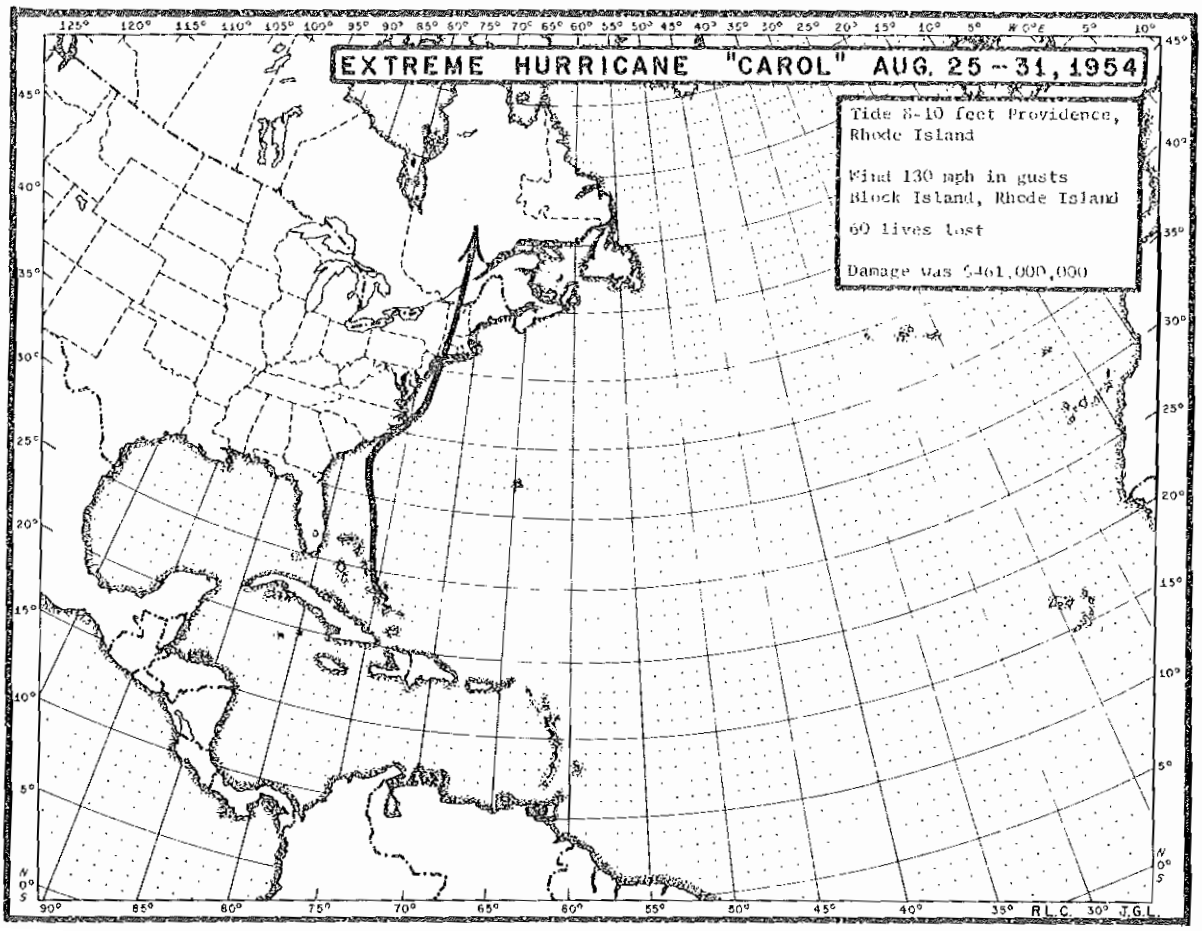

HURRICANE AUG. 21-28, 1949
Wind 132 mph Diamond Shoals Lightship
Pressure 28.86 inches Diamond Shoals Lightship
R.L.C.
J.G.L.

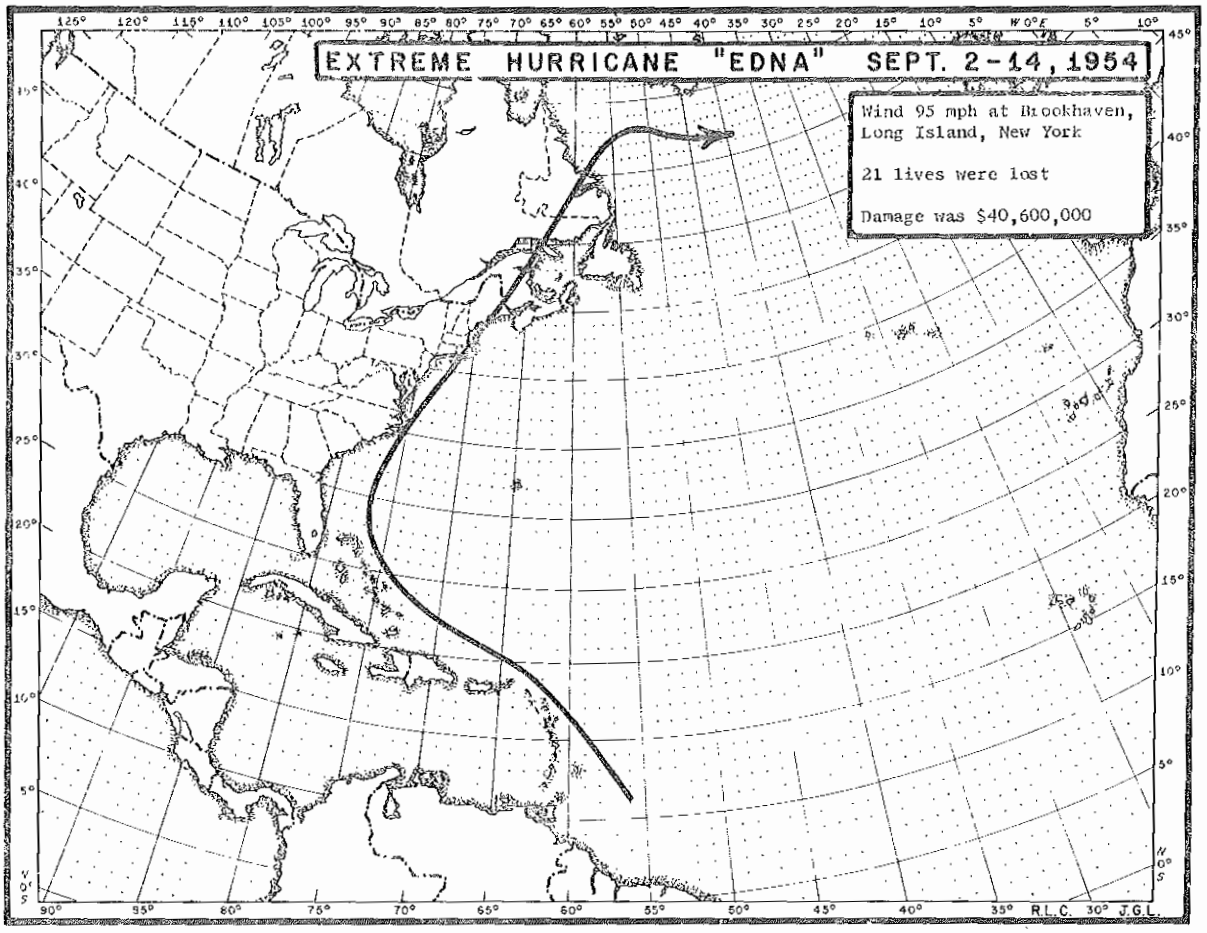

GREAT HURRICANE AUG. 23-31, 1949
ALL IN FLORIDA
TIDES (FEET):
1. 24.0 MSL Belle Glade
2. 23.1 MSL Okeechobee
3. 12.5 White City River
4. 11.3 Ft. Pierce
5. 8.5 Stuart
6. 7.5 Palm City
7. 6.5 Salerno
WINDS (MPH):
1. 132 gusts to 153 Jupiter
2. 130 gusts to 155 EST West Palm Beach
Pressure 28.17 inches West Palm Beach, Florida
2 lives were lost
Damage was $52,000,000
R.L.C.
J.G.L.

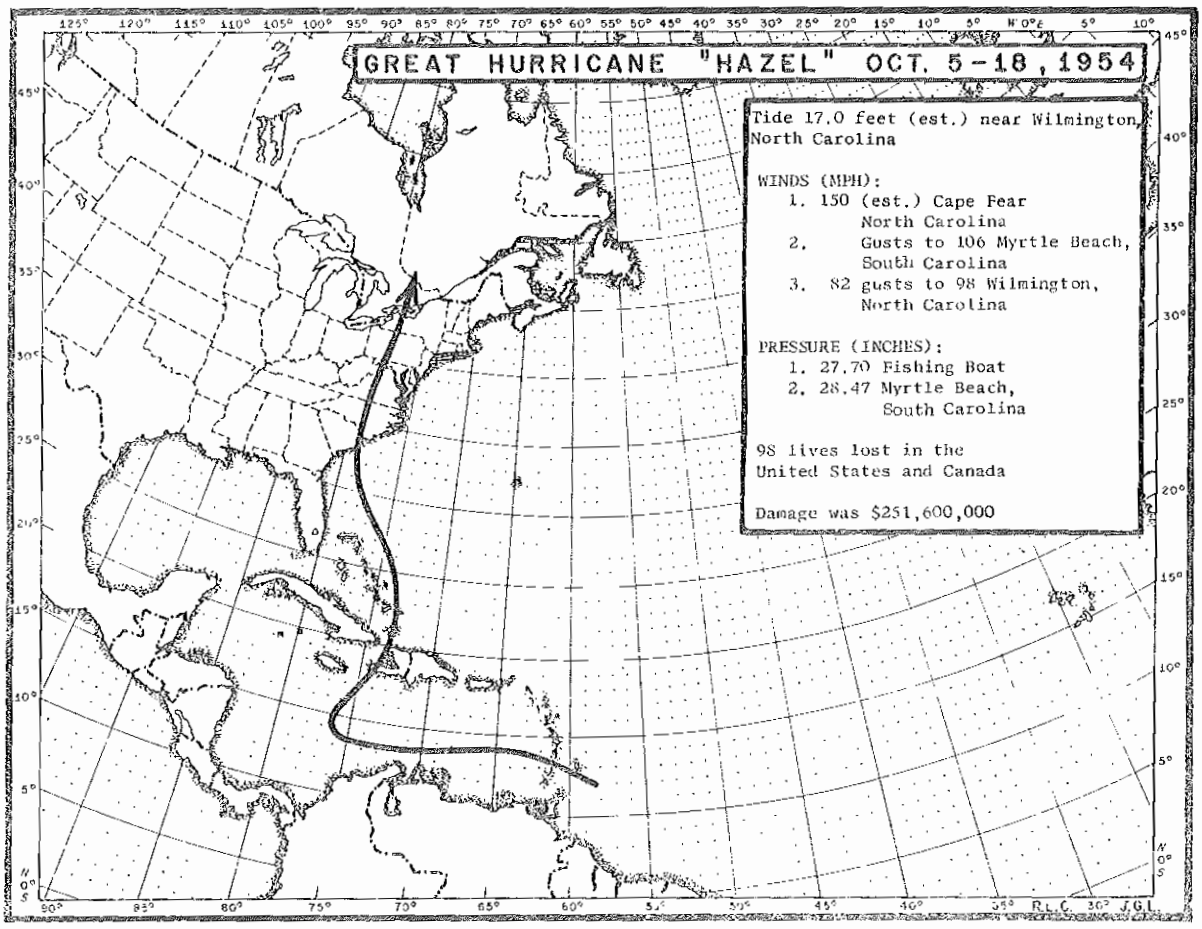

MAJOR HURRICANE SEPT. 27 - OCT 6, 1949
ALL IN TEXAS
TIDES (FEET):
1. 11.4 Harrisburg
2. 11.0 Velasco
3. 11.0 Freeport
4. 10.5 Greens Bayou
5. 8.0 Matagorda
WINDS (MPH):
1. 135 Freeport
2. 90 Houston
3. 86 gusts to 100 Velasco
Pressure 28.88 inches at Freeport
2 lives were lost
Damage was $7,000,000
R.L.C. J.G.L.

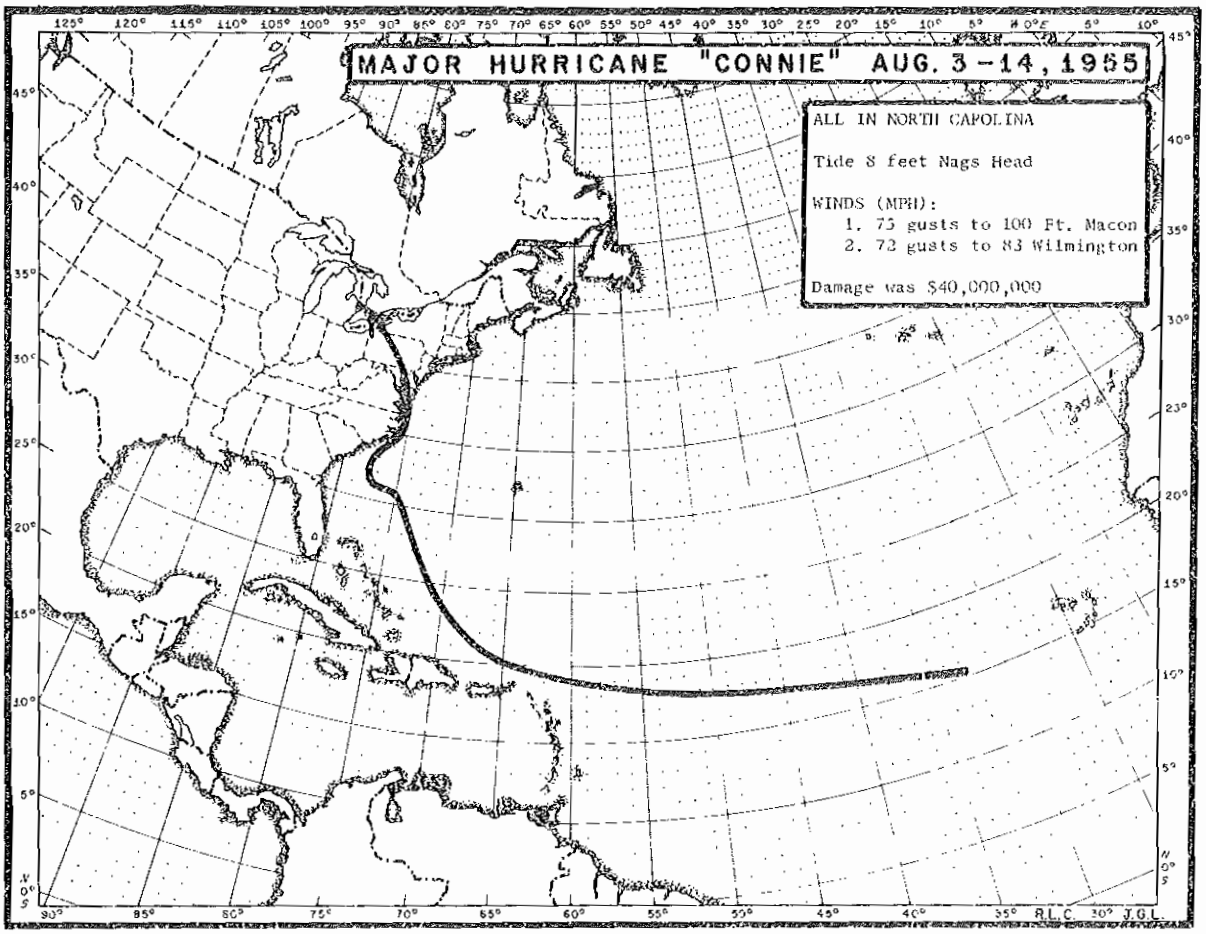

MAJOR HURRICANE "EASY" SEPT. 1 - 9, 1950
ALL IN FLORIDA
Tide - Cedar Key wrecked
WIND (MPH):
1. 125 Cedar Key
2. 73 Dry Tortugas
3. 65 Cross City
Pressure 28.30 inches Cedar Key
2 lives were lost
Damage was $3,300,000
38.7 inches of rainfall at Yankeetown on Sept. 5-6 is accepted as the 24-hour maximum for the United States.
R.L.C. J.G.L.

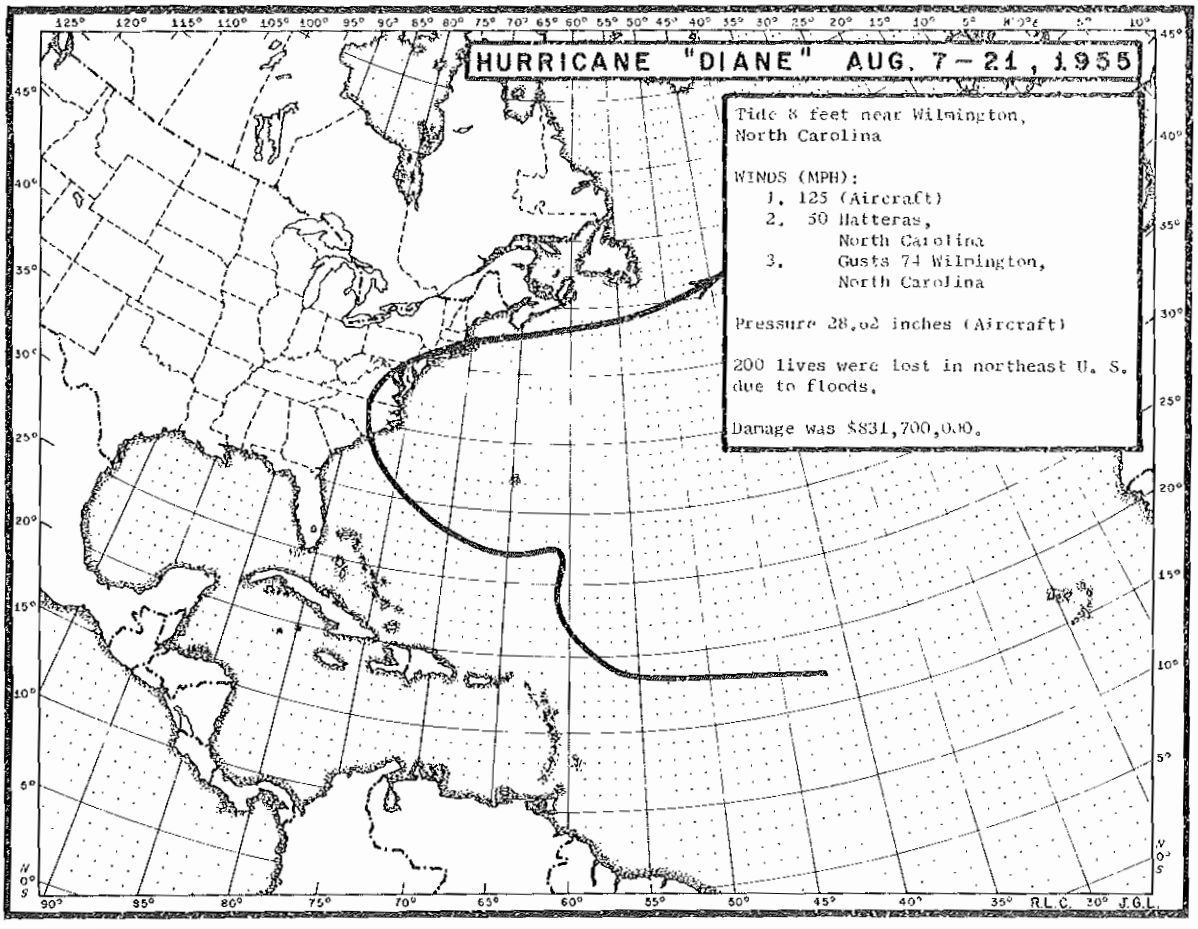

MAJOR HURRICANE "KING" OCT. 13-19, 1950
TIDES (FEET):
1. 19.3 MSL Clewiston, Florida
2. 5.3 Key Biscayne, Florida
Wind 122 mph gusts to 150 mph Miami, Florida
Pressure 28.20 inches, Miami, Florida
LIVES LOST:
1. 3 in Florida
2. 1 in Georgia
Damage was $28,000,000 in Florida and Georgia
R.L.C. 30° J.G.L.

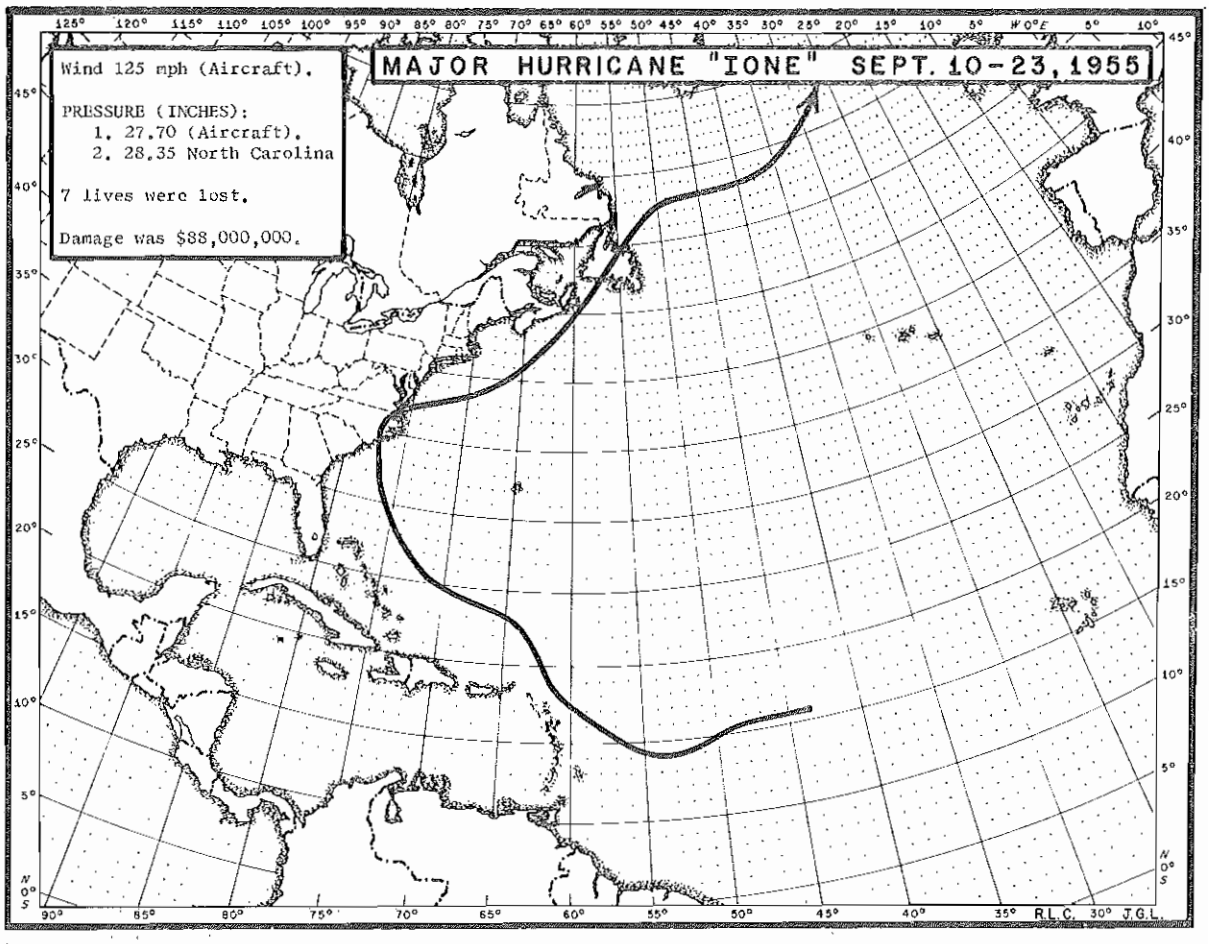

EXTREME HURRICANE "CAROL" AUG. 25-31, 1954
Tide 8-10 feet Providence, Rhode Island
Wind 130 mph in gusts Block Island, Rhode Island
60 lives lost
Damage was $461,000,000
R.L.C. 30° J.G.L.

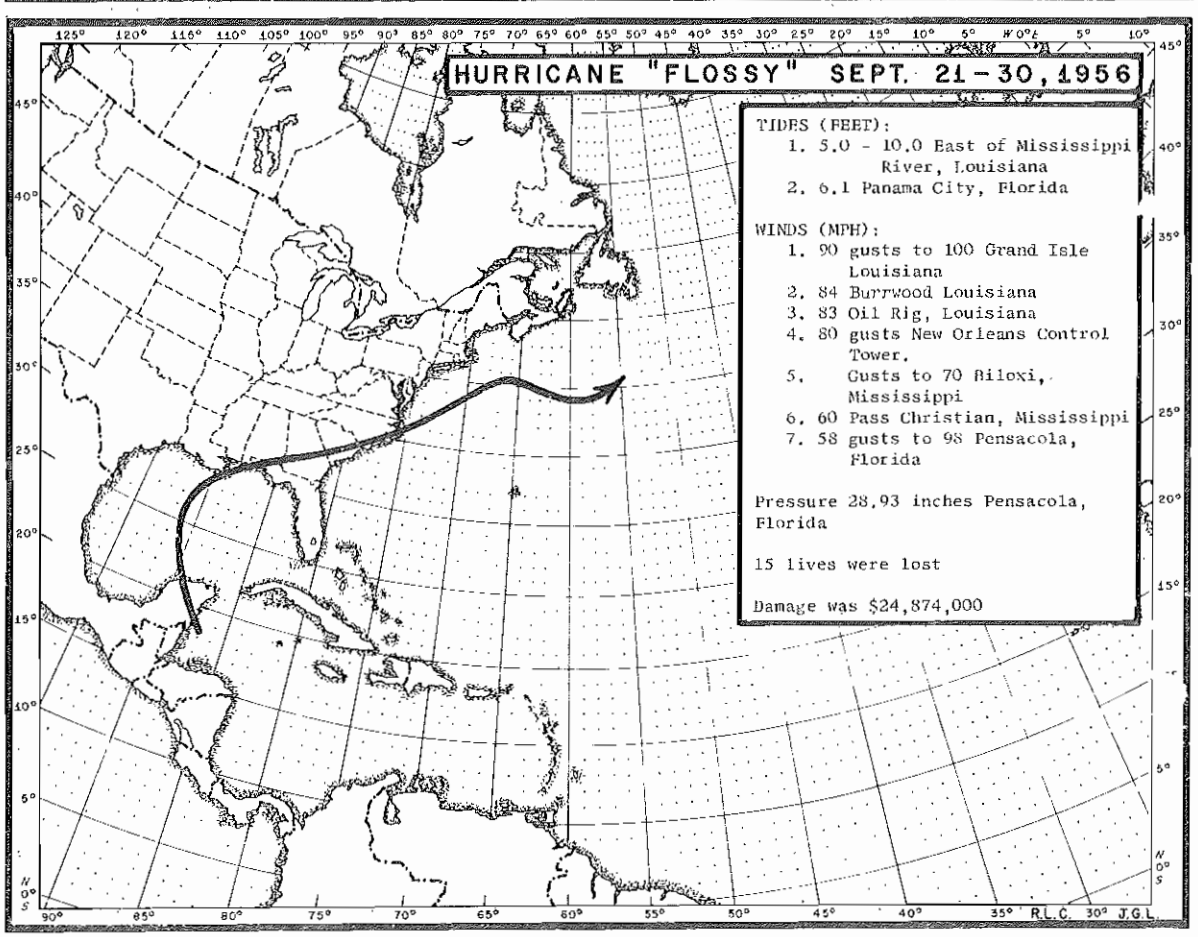

EXTREME HURRICANE "EDNA" SEPT. 2-14, 1954
Wind 95 mph at Brookhaven, Long Island, New York
21 lives were lost
Damage was $40,600,000
R.L.C. 30° J.G.L.

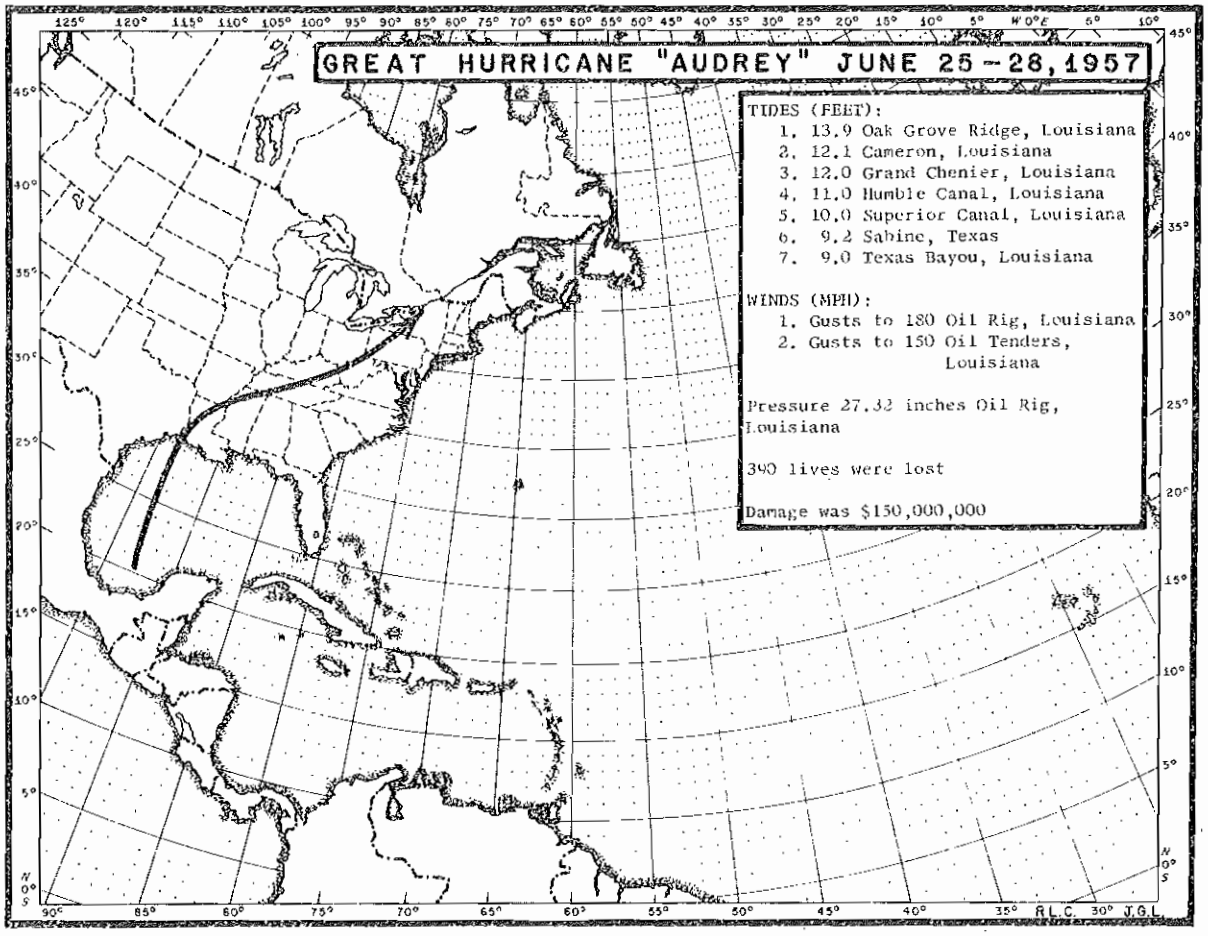

GREAT HURRICANE "HAZEL" OCT. 5-18, 1954
Tide 17.0 feet (est.) near Wilmington, North Carolina
WINDS (MPH):
1. 150 (est.) Cape Fear North Carolina
2. Gusts to 106 Myrtle Beach, South Carolina
3. 82 gusts to 98 Wilmington, North Carolina
PRESSURE (INCHES):
1. 27.70 Fishing Boat
2. 28.47 Myrtle Beach, South Carolina
98 lives lost in the United States and Canada
Damage was $251,600,000
R.L.C. 30° J.G.L.

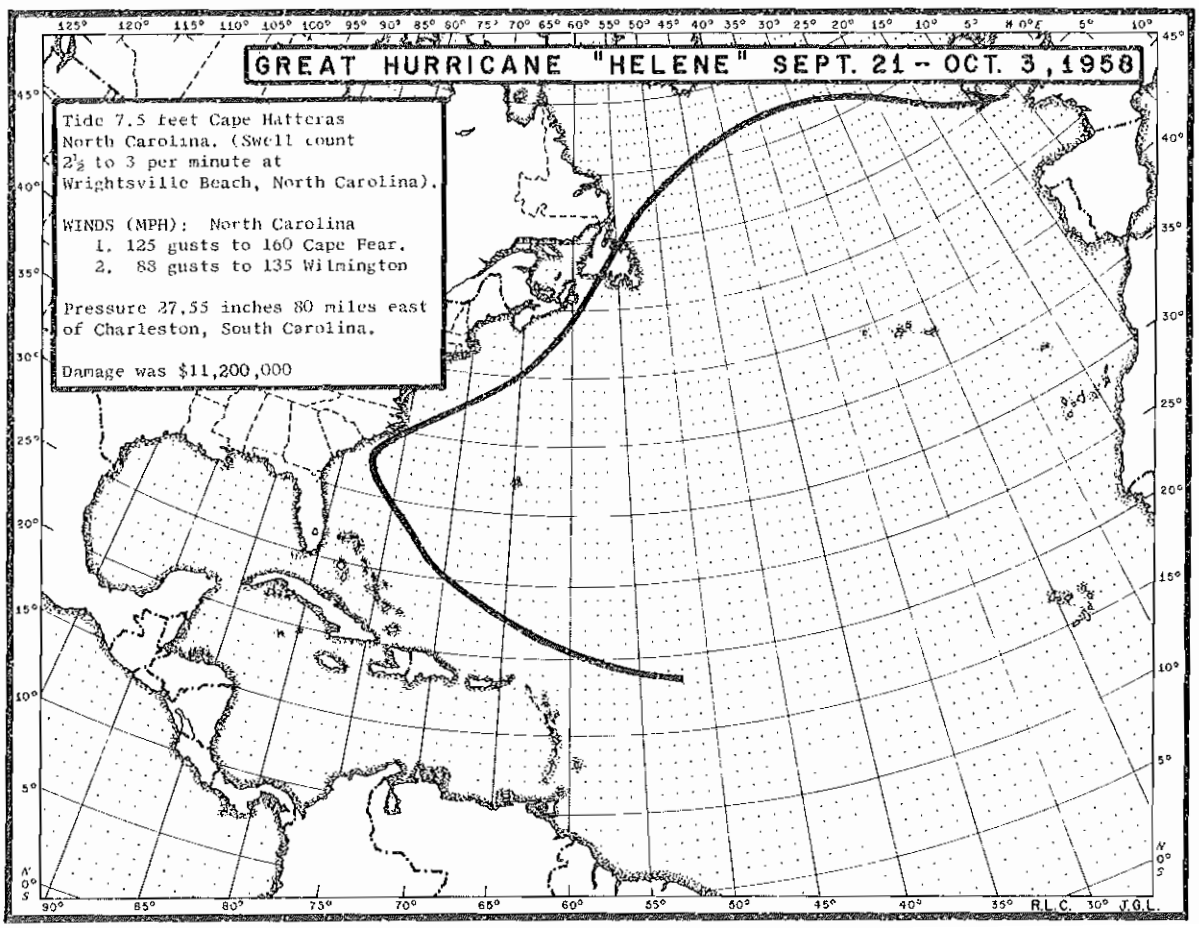

MAJOR HURRICANE "CONNIE" AUG. 3 – 14, 1955
ALL IN NORTH CAROLINA
Tide 8 feet Nags Head
WINDS (MPH):
1. 75 gusts to 100 Ft. Macon
2. 72 gusts to 83 Wilmington
Damage was $40,000,000
R.L.C. J.G.L.

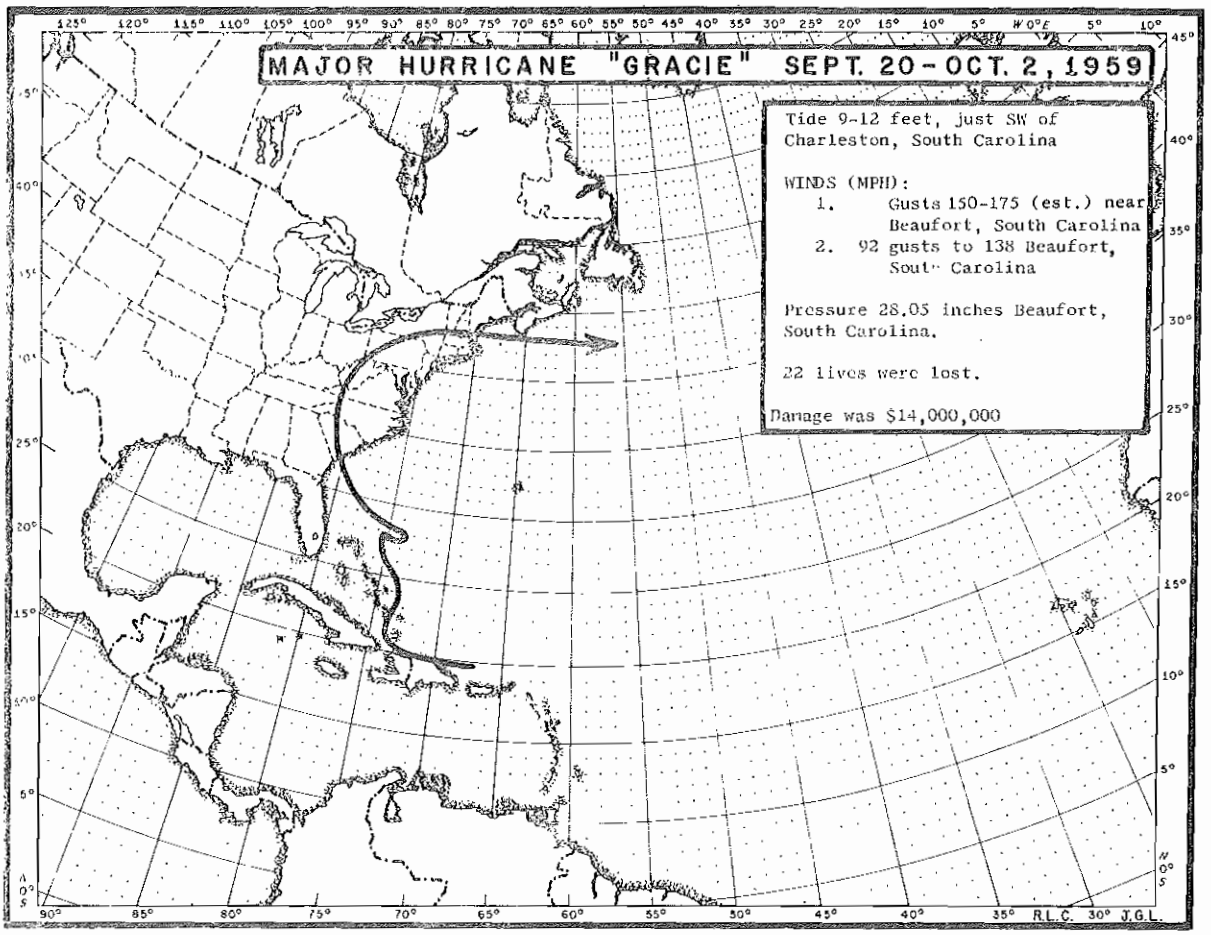

HURRICANE "DIANE" AUG. 7 – 21, 1955
Tide 8 feet near Wilmington, North Carolina
WINDS (MPH):
1. 125 (Aircraft)
2. 50 Hatteras, North Carolina
3. Gusts 74 Wilmington, North Carolina
Pressure 28.02 inches (Aircraft)
200 lives were lost in northeast U. S. due to floods.
Damage was $831,700,000.
R.L.C. J.G.L.

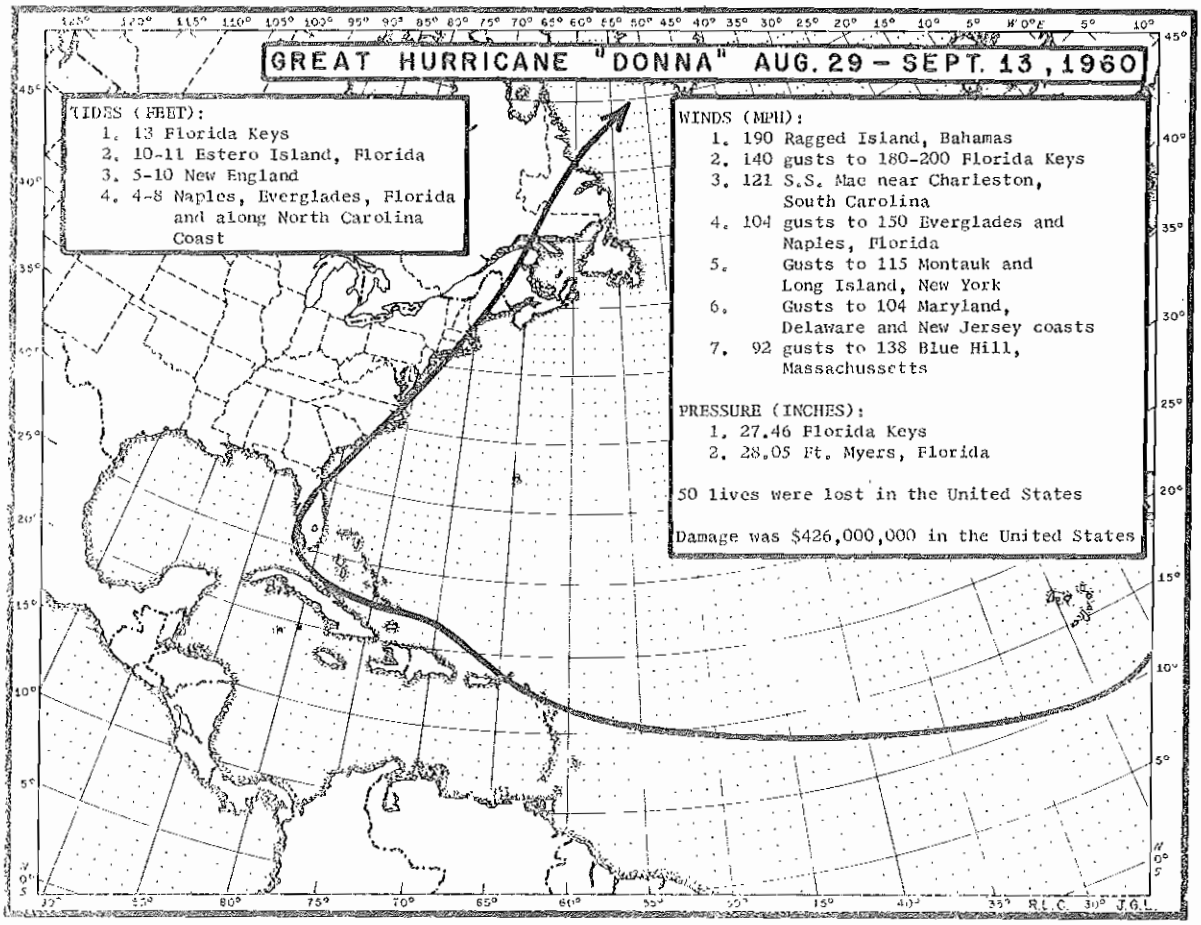

MAJOR HURRICANE "IONE" SEPT. 10-23, 1955
Wind 125 mph (Aircraft).
PRESSURE (INCHES):
1. 27.70 (Aircraft).
2. 28.35 North Carolina
7 lives were lost.
Damage was $88,000,000.
R.L.C.
J.G.L.

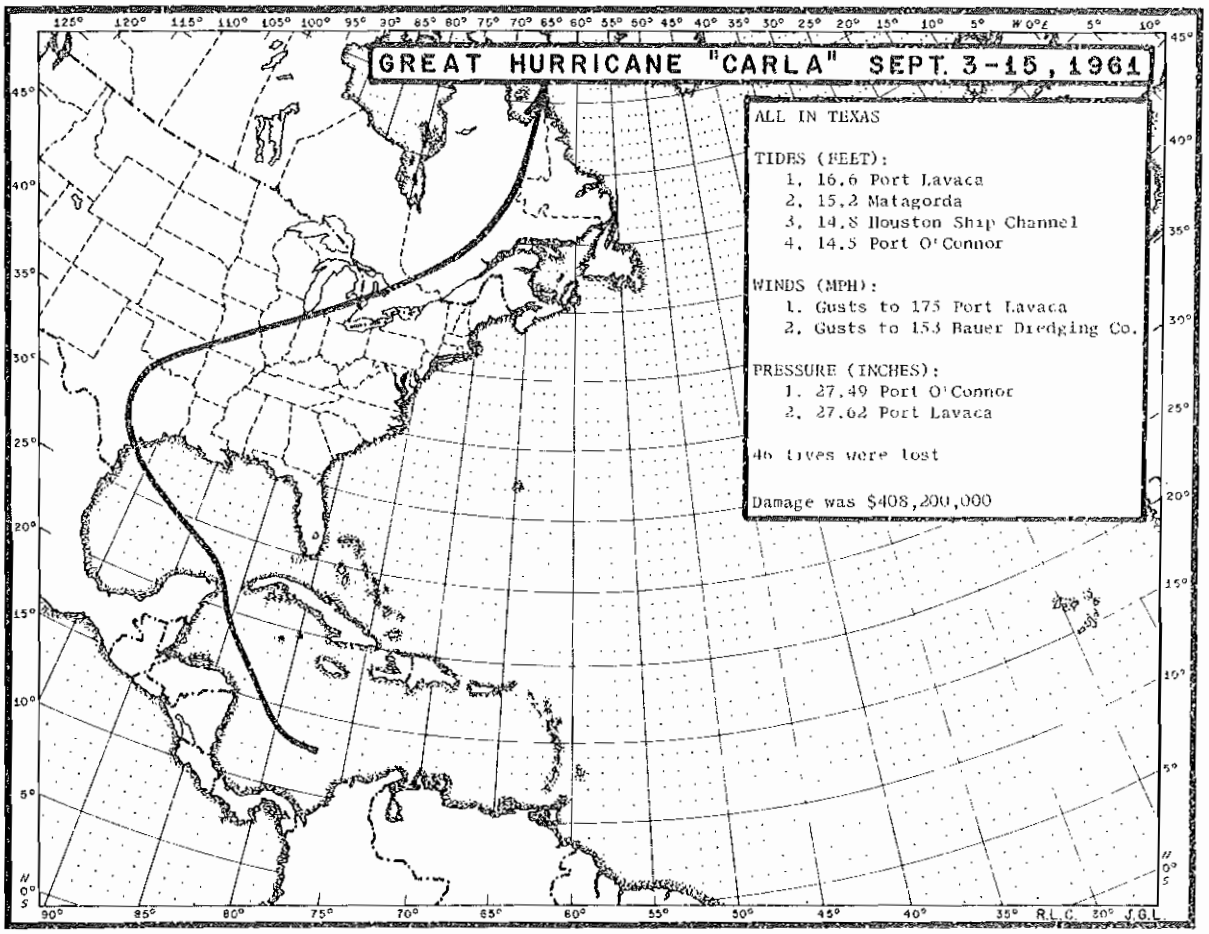

HURRICANE "FLOSSY" SEPT. 21-30, 1956
TIDES (FEET):
1. 5.0 - 10.0 East of Mississippi River, Louisiana
2. 6.1 Panama City, Florida
WINDS (MPH):
1. 90 gusts to 100 Grand Isle Louisiana
2. 84 Burrwood Louisiana
3. 83 Oil Rig, Louisiana
4. 80 gusts New Orleans Control Tower.
5. Gusts to 70 Biloxi, Mississippi
6. 60 Pass Christian, Mississippi
7. 58 gusts to 98 Pensacola, Florida
Pressure 28.93 inches Pensacola, Florida
15 lives were lost
Damage was $24,874,000
R.L.C.
J.G.L.

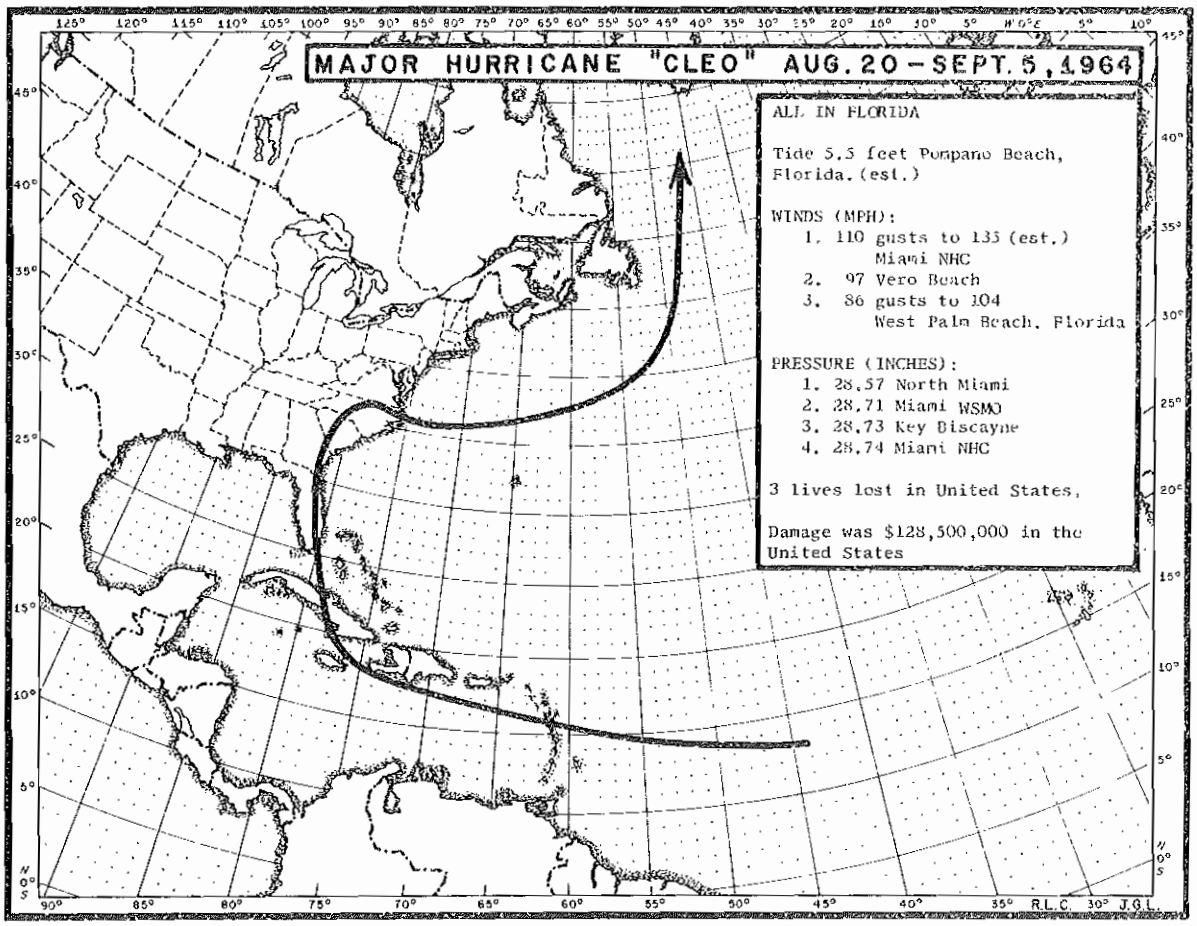

GREAT HURRICANE "AUDREY" JUNE 25 - 28, 1957
TIDES (FEET):
1. 13.9 Oak Grove Ridge, Louisiana
2. 12.1 Cameron, Louisiana
3. 12.0 Grand Chenier, Louisiana
4. 11.0 Humble Canal, Louisiana
5. 10.0 Superior Canal, Louisiana
6. 9.2 Sabine, Texas
7. 9.0 Texas Bayou, Louisiana
WINDS (MPH):
1. Gusts to 180 Oil Rig, Louisiana
2. Gusts to 150 Oil Tenders, Louisiana
Pressure 27.32 inches Oil Rig, Louisiana
390 lives were lost
Damage was $150,000,000
R.L.C. 30° J.G.L.

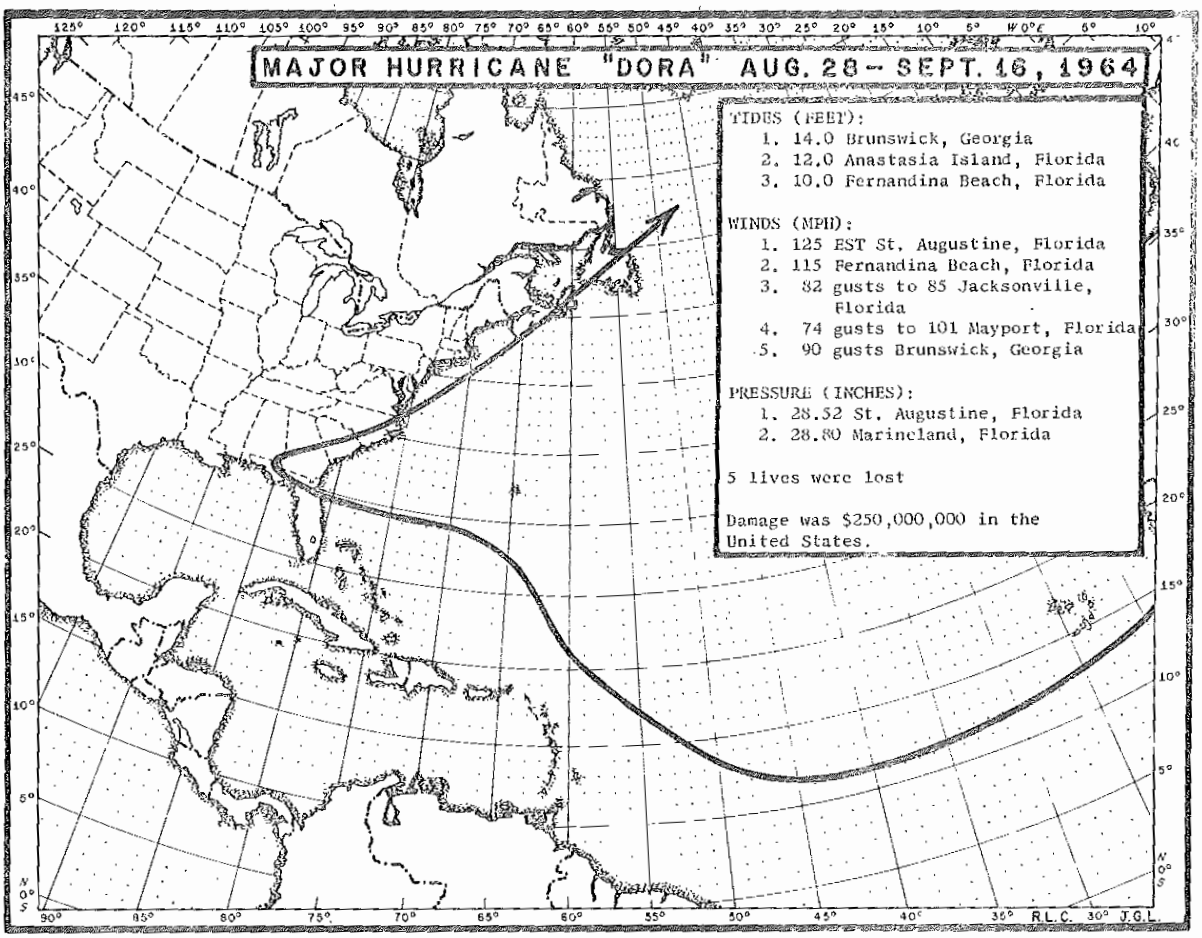

GREAT HURRICANE "HELENE" SEPT. 21 - OCT. 3, 1958
Tide 7.5 feet Cape Hatteras North Carolina. (Swell count 2½ to 3 per minute at Wrightsville Beach, North Carolina).
WINDS (MPH): North Carolina
1. 125 gusts to 160 Cape Fear.
2. 88 gusts to 135 Wilmington
Pressure 27.55 inches 80 miles east of Charleston, South Carolina.
Damage was $11,200,000
R.L.C. 30° J.G.L.

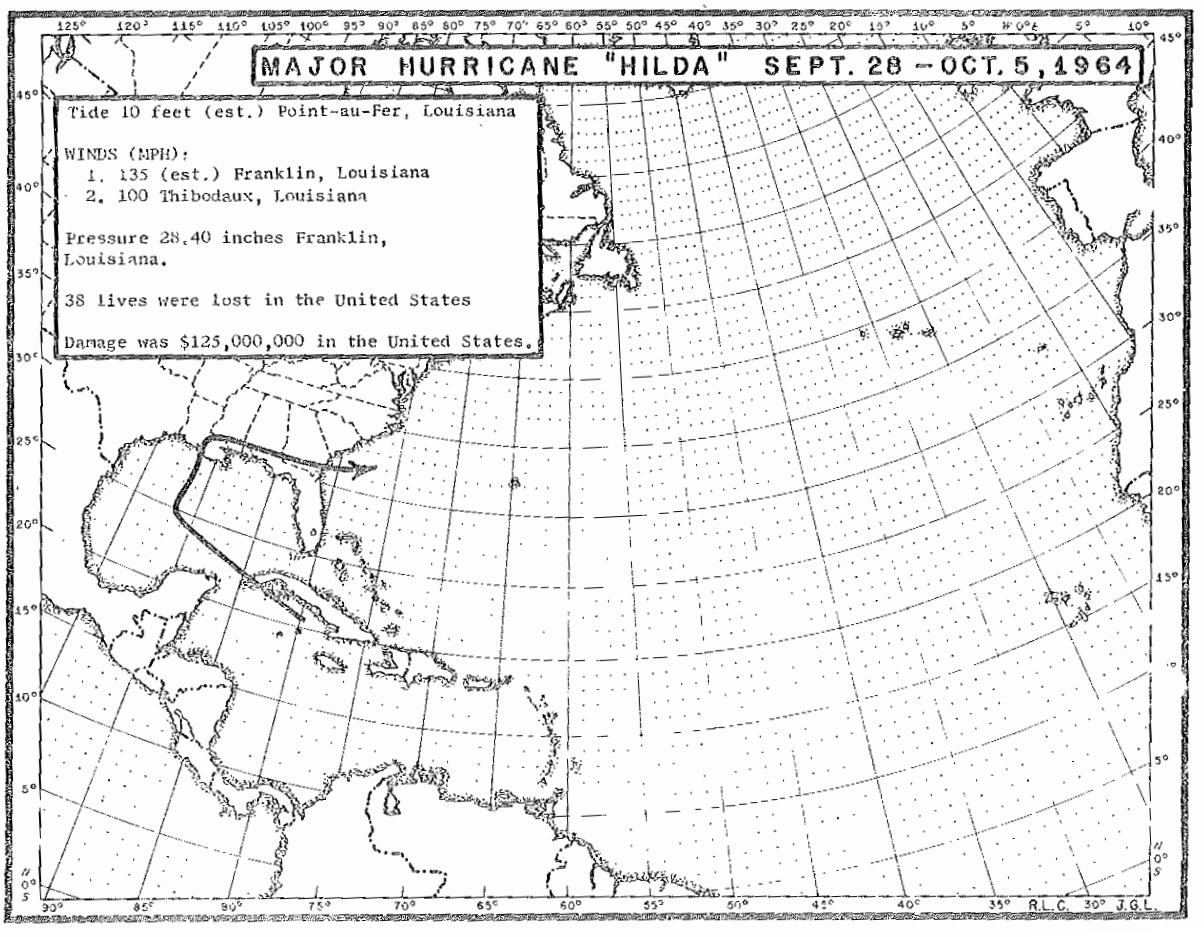

MAJOR HURRICANE "GRACIE" SEPT. 20 - OCT. 2, 1959
Tide 9-12 feet, just SW of Charleston, South Carolina
WINDS (MPH):
1. Gusts 150-175 (est.) near Beaufort, South Carolina
2. 92 gusts to 138 Beaufort, South Carolina
Pressure 28.05 inches Beaufort, South Carolina.
22 lives were lost.
Damage was $14,000,000
R.L.C. J.G.L.

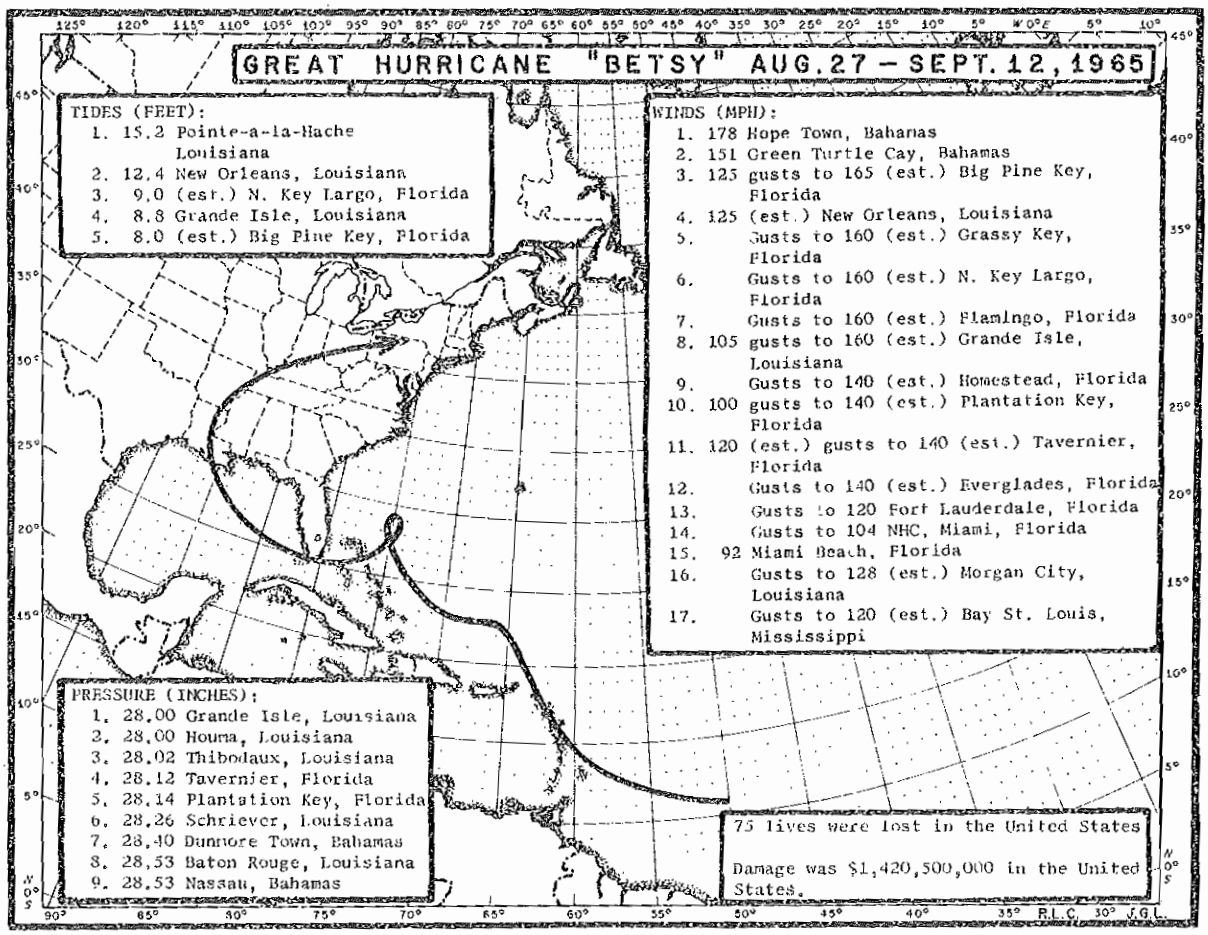

GREAT HURRICANE "DONNA" AUG. 29 - SEPT. 13, 1960
TIDES (FEET):
1. 13 Florida Keys
2. 10-11 Estero Island, Florida
3. 5-10 New England
4. 4-8 Naples, Everglades, Florida and along North Carolina Coast
WINDS (MPH):
1. 190 Ragged Island, Bahamas
2. 140 gusts to 180-200 Florida Keys
3. 121 S.S. Mae near Charleston, South Carolina
4. 104 gusts to 150 Everglades and Naples, Florida
5. Gusts to 115 Montauk and Long Island, New York
6. Gusts to 104 Maryland, Delaware and New Jersey coasts
7. 92 gusts to 138 Blue Hill, Massachussetts
PRESSURE (INCHES):
1. 27.46 Florida Keys
2. 28.05 Ft. Myers, Florida
50 lives were lost in the United States
Damage was $426,000,000 in the United States
R.L.C. J.G.L.

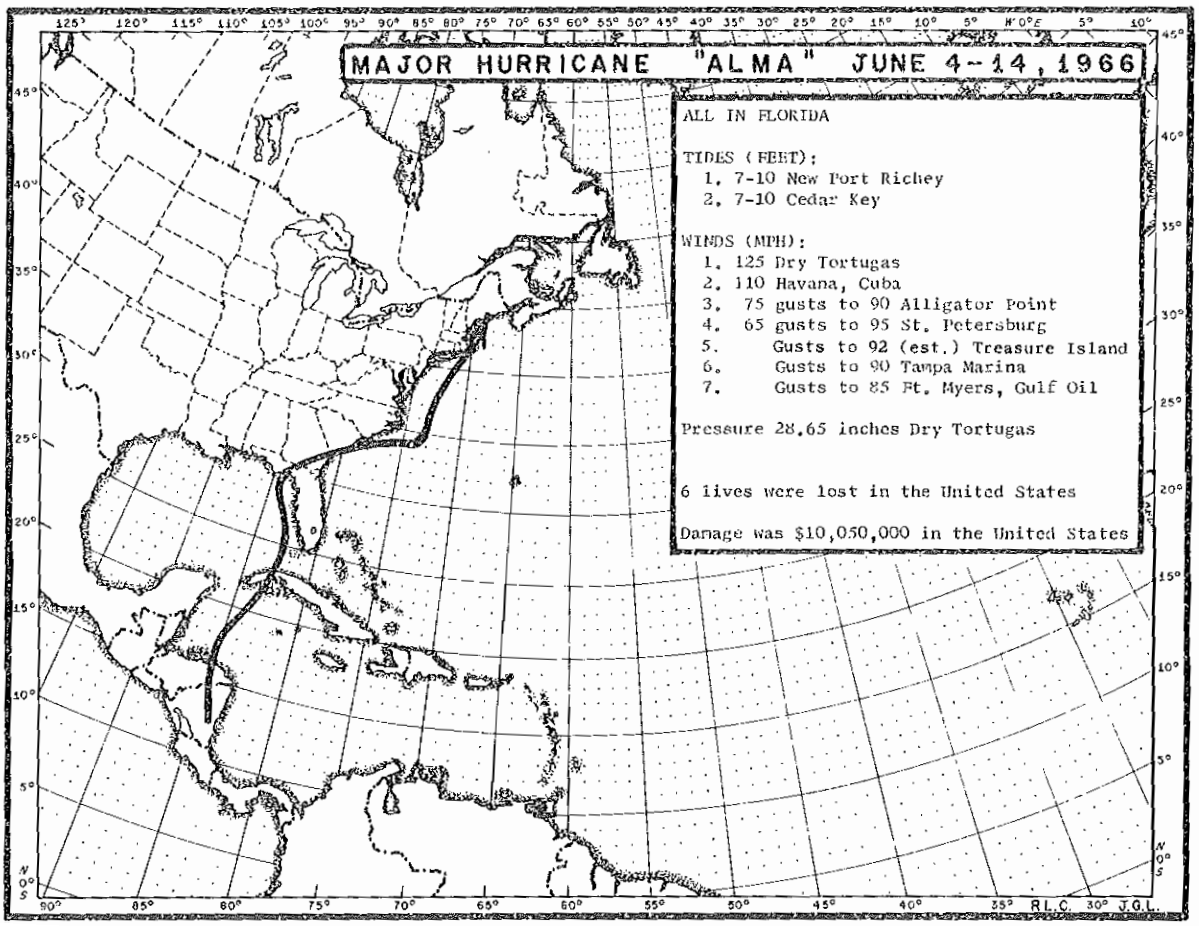

GREAT HURRICANE "CARLA" SEPT. 3-15, 1961
ALL IN TEXAS
TIDES (FEET):
1. 16.6 Port Lavaca
2. 15.2 Matagorda
3. 14.8 Houston Ship Channel
4. 14.5 Port O'Connor
WINDS (MPH):
1. Gusts to 175 Port Lavaca
2. Gusts to 153 Bauer Dredging Co.
PRESSURE (INCHES):
1. 27.49 Port O'Connor
2. 27.62 Port Lavaca
46 lives were lost
Damage was $408,200,000
R.L.C.
J.G.L.

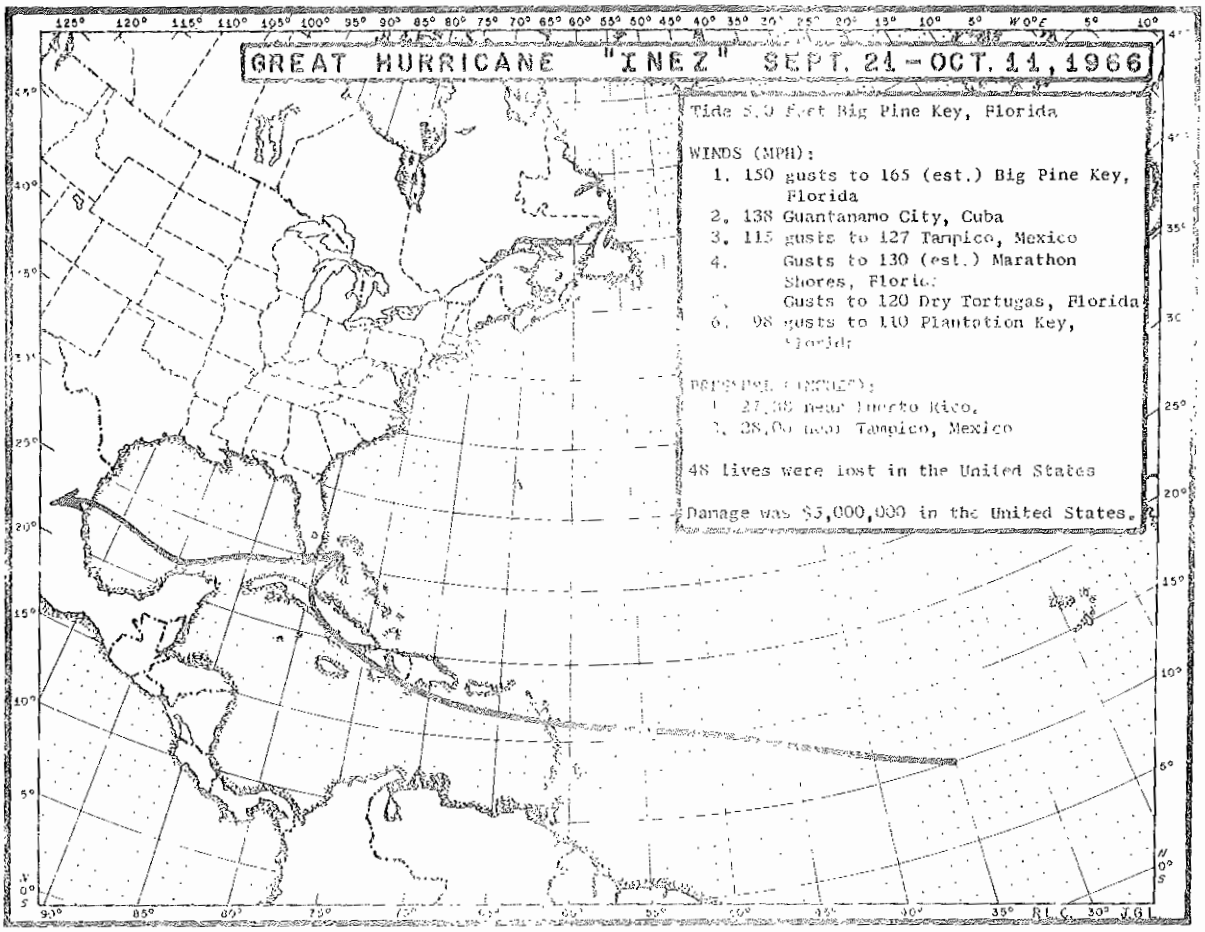

MAJOR HURRICANE "CLEO" AUG. 20 - SEPT. 5, 1964
ALL IN FLORIDA
Tide 5.5 feet Pompano Beach, Florida. (est.)
WINDS (MPH):
1. 110 gusts to 135 (est.) Miami NHC
2. 97 Vero Beach
3. 86 gusts to 104 West Palm Beach, Florida
PRESSURE (INCHES):
1. 28.57 North Miami
2. 28.71 Miami WSMO
3. 28.73 Key Biscayne
4. 28.74 Miami NHC
3 lives lost in United States.
Damage was $128,500,000 in the United States
R.L.C.
J.G.L.

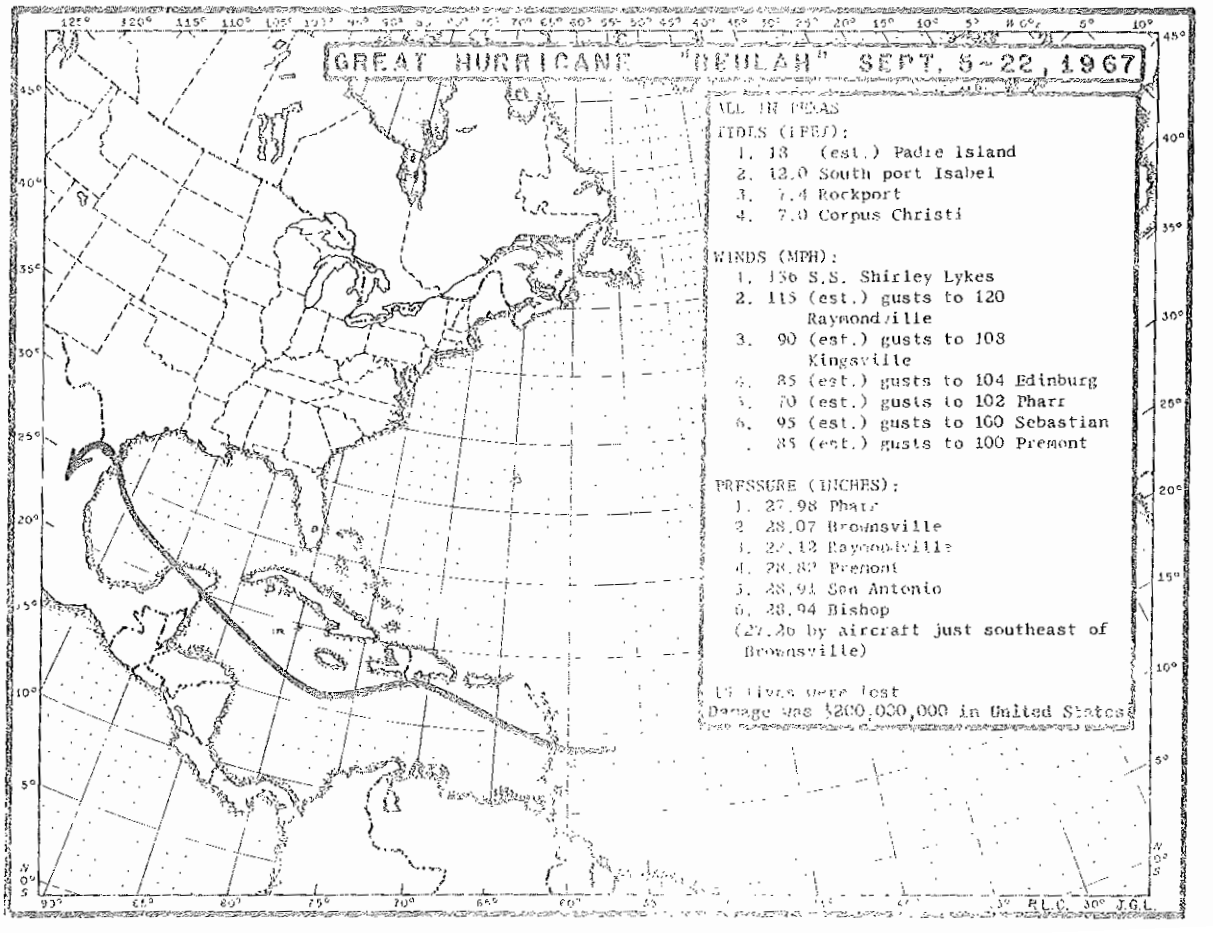

MAJOR HURRICANE "DORA" AUG. 28 - SEPT. 16, 1964
TIDES (FEET):
1. 14.0 Brunswick, Georgia
2. 12.0 Anastasia Island, Florida
3. 10.0 Fernandina Beach, Florida
WINDS (MPH):
1. 125 EST St. Augustine, Florida
2. 115 Fernandina Beach, Florida
3. 82 gusts to 85 Jacksonville, Florida
4. 74 gusts to 101 Mayport, Florida
5. 90 gusts Brunswick, Georgia
PRESSURE (INCHES):
1. 28.52 St. Augustine, Florida
2. 28.80 Marineland, Florida
5 lives were lost
Damage was $250,000,000 in the United States.
R.L.C.
J.G.L.

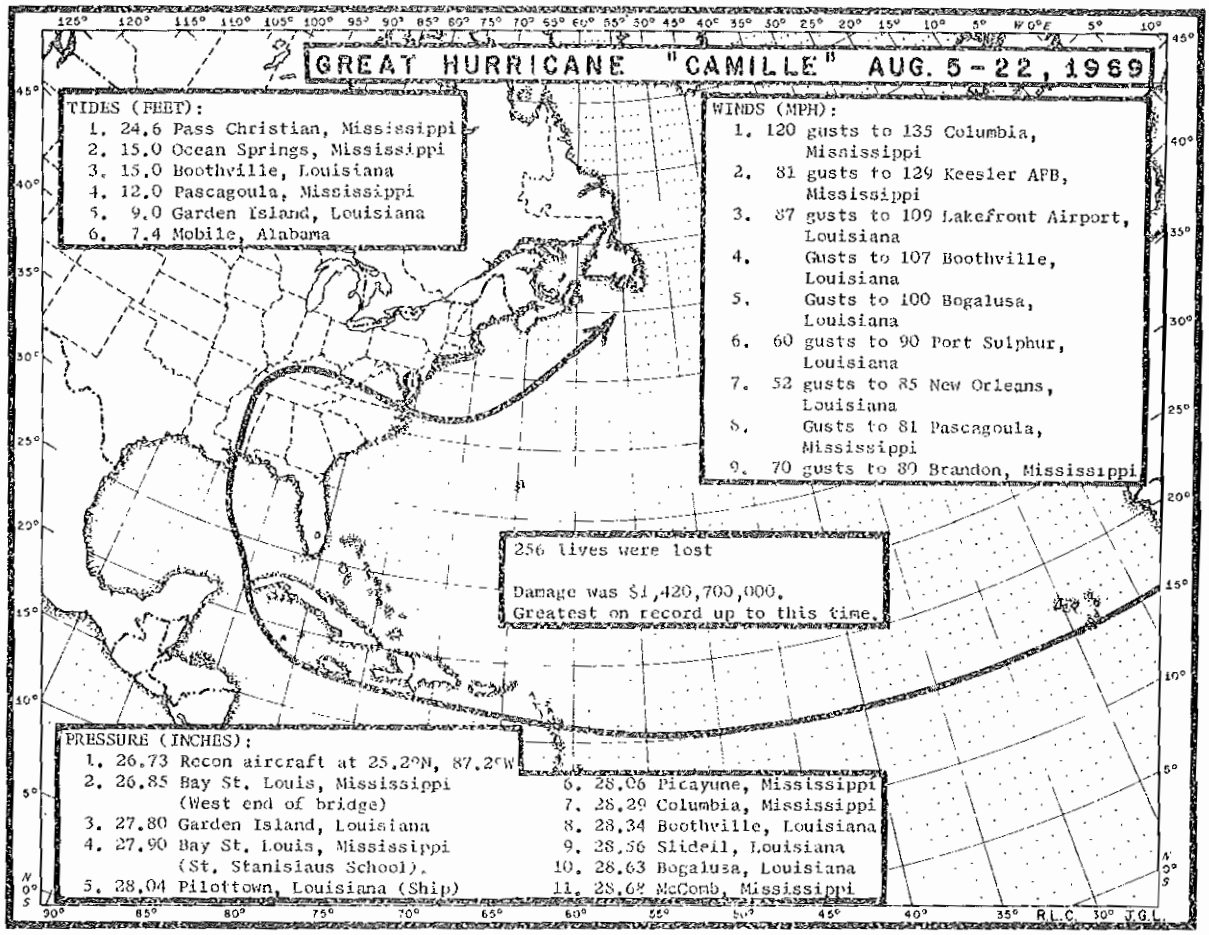

MAJOR HURRICANE "HILDA" SEPT. 28 - OCT. 5, 1964
Tide 10 feet (est.) Point-au-Fer, Louisiana
WINDS (MPH):
1. 135 (est.) Franklin, Louisiana
2. 100 Thibodaux, Louisiana
Pressure 28.40 inches Franklin, Louisiana.
38 lives were lost in the United States
Damage was $125,000,000 in the United States.
R.L.C.
J.G.L.

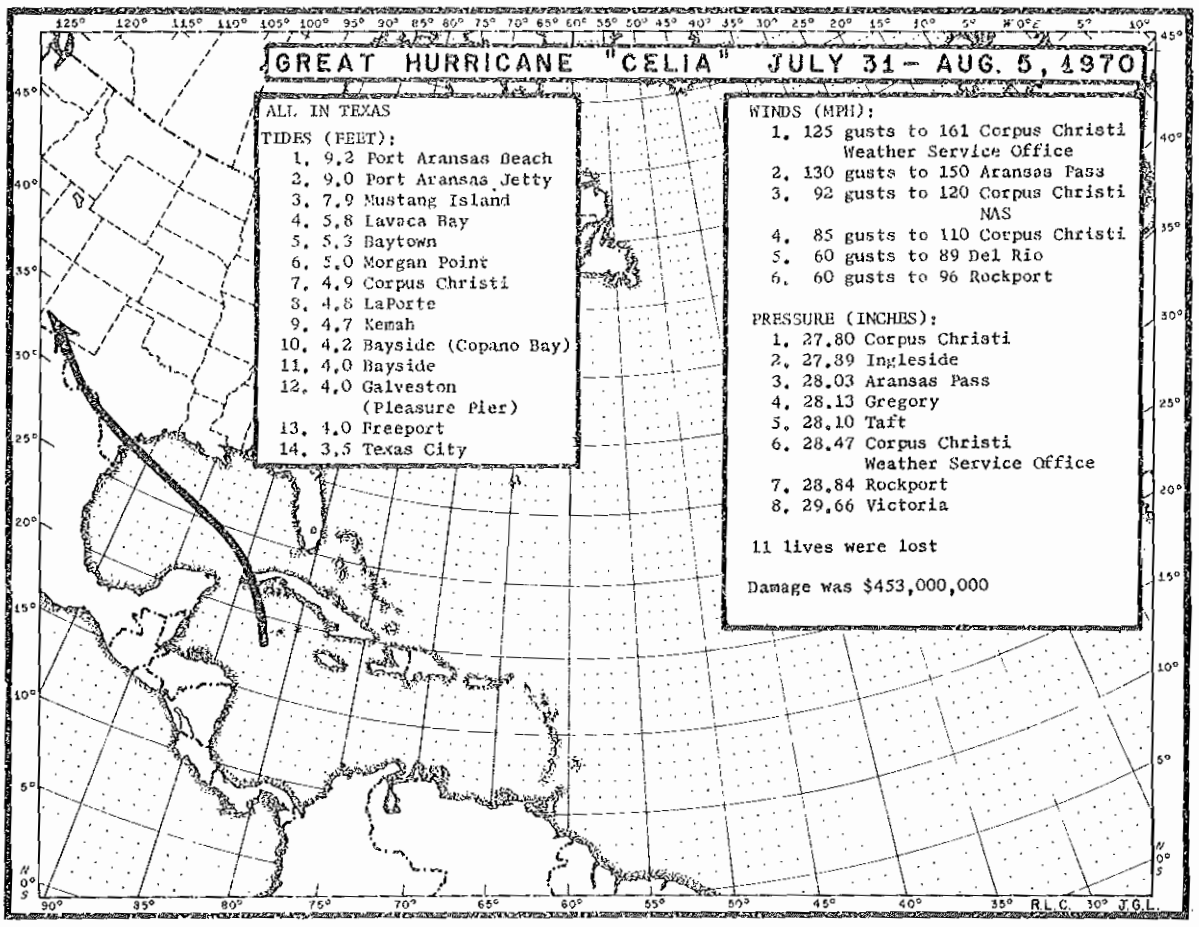

GREAT HURRICANE "BETSY" AUG. 27 – SEPT. 12, 1965
TIDES (FEET):
1. 15.2 Pointe-a-la-Hache Louisiana
2. 12.4 New Orleans, Louisiana
3. 9.0 (est.) N. Key Largo, Florida
4. 8.8 Grande Isle, Louisiana
5. 8.0 (est.) Big Pine Key, Florida
WINDS (MPH):
1. 178 Hope Town, Bahamas
2. 151 Green Turtle Cay, Bahamas
3. 125 gusts to 165 (est.) Big Pine Key, Florida
4. 125 (est.) New Orleans, Louisiana
5. Gusts to 160 (est.) Grassy Key, Florida
6. Gusts to 160 (est.) N. Key Largo, Florida
7. Gusts to 160 (est.) Flamingo, Florida
8. 105 gusts to 160 (est.) Grande Isle, Louisiana
9. Gusts to 140 (est.) Homestead, Florida
10. 100 gusts to 140 (est.) Plantation Key, Florida
11. 120 (est.) gusts to 140 (est.) Tavernier, Florida
12. Gusts to 140 (est.) Everglades, Florida
13. Gusts to 120 Fort Lauderdale, Florida
14. Gusts to 104 NHC, Miami, Florida
15. 92 Miami Beach, Florida
16. Gusts to 128 (est.) Morgan City, Louisiana
17. Gusts to 120 (est.) Bay St. Louis, Mississippi
PRESSURE (INCHES):
1. 28.00 Grande Isle, Louisiana
2. 28.00 Houma, Louisiana
3. 28.02 Thibodaux, Louisiana
4. 28.12 Tavernier, Florida
5. 28.14 Plantation Key, Florida
6. 28.26 Schriever, Louisiana
7. 28.40 Dunmore Town, Bahamas
8. 28.53 Baton Rouge, Louisiana
9. 28.53 Nassau, Bahamas
75 lives were lost in the United States
Damage was $1,420,500,000 in the United States.
R.L.C. J.G.L.


MAJOR HURRICANE "ALMA" JUNE 4-14, 1966
ALL IN FLORIDA
TIDES (FEET):
1. 7-10 New Port Richey
2. 7-10 Cedar Key
WINDS (MPH):
1. 125 Dry Tortugas
2. 110 Havana, Cuba
3. 75 gusts to 90 Alligator Point
4. 65 gusts to 95 St. Petersburg
5. Gusts to 92 (est.) Treasure Island
6. Gusts to 90 Tampa Marina
7. Gusts to 85 Ft. Myers, Gulf Oil
Pressure 28.65 inches Dry Tortugas
6 lives were lost in the United States
Damage was $10,050,000 in the United States
R.L.C. J.G.L.


GREAT HURRICANE "INEZ" SEPT. 21 - OCT. 11, 1966
Tide 5.0 Feet Big Pine Key, Florida
WINDS (MPH):
1. 150 gusts to 165 (est.) Big Pine Key, Florida
2. 138 Guantanamo City, Cuba
3. 115 gusts to 127 Tampico, Mexico
4. Gusts to 130 (est.) Marathon Shores, Florida
5. Gusts to 120 Dry Tortugas, Florida
6. 98 gusts to 110 Plantation Key, Florida
PRESSURE (INCHES):
1. 27.38 Near Puerto Rico.
2. 28.00 near Tampico, Mexico
48 lives were lost in the United States
Damage was $5,000,000 in the United States.


GREAT HURRICANE "BEULAH" SEPT. 5-22, 1967
ALL IN TEXAS
TIDES (FEET):
1. 13 (est.) Padre Island
2. 12.0 South port Isabel
3. 7.4 Rockport
4. 7.0 Corpus Christi
WINDS (MPH):
1. 136 S.S. Shirley Lykes
2. 115 (est.) gusts to 120 Raymondville
3. 90 (est.) gusts to 108 Kingsville
4. 85 (est.) gusts to 104 Edinburg
5. 70 (est.) gusts to 102 Pharr
6. 95 (est.) gusts to 100 Sebastian
7. 85 (est.) gusts to 100 Fremont
PRESSURE (INCHES):
1. 27.98 Pharr
2. 28.07 Brownsville
3. 27.12 Raymondville
4. 28.83 Fremont
5. 28.93 San Antonio
6. 28.94 Bishop
(27.26 by aircraft just southeast of Brownsville)
15 lives were lost
Damage was $200,000,000 in United States


GREAT HURRICANE "CAMILLE" AUG. 5 - 22, 1969
TIDES (FEET):
1. 24.6 Pass Christian, Mississippi
2. 15.0 Ocean Springs, Mississippi
3. 15.0 Boothville, Louisiana
4. 12.0 Pascagoula, Mississippi
5. 9.0 Garden Island, Louisiana
6. 7.4 Mobile, Alabama
WINDS (MPH):
1. 120 gusts to 135 Columbia, Mississippi
2. 81 gusts to 129 Keesler AFB, Mississippi
3. 87 gusts to 109 Lakefront Airport, Louisiana
4. Gusts to 107 Boothville, Louisiana
5. Gusts to 100 Bogalusa, Louisiana
6. 60 gusts to 90 Port Sulphur, Louisiana
7. 52 gusts to 85 New Orleans, Louisiana
8. Gusts to 81 Pascagoula, Mississippi
9. 70 gusts to 80 Brandon, Mississippi
256 lives were lost
Damage was $1,420,700,000.
Greatest on record up to this time.
PRESSURE (INCHES):
1. 26.73 Recon aircraft at 25.2°N, 87.2°W
2. 26.85 Bay St. Louis, Mississippi (West end of bridge)
3. 27.80 Garden Island, Louisiana
4. 27.90 Bay St. Louis, Mississippi (St. Stanislaus School).
5. 28.04 Pilottown, Louisiana (Ship)
6. 28.06 Picayune, Mississippi
7. 28.29 Columbia, Mississippi
8. 28.34 Boothville, Louisiana
9. 28.56 Slidell, Louisiana
10. 28.63 Bogalusa, Louisiana
11. 28.68 McComb, Mississippi
RLC
JGL


GREAT HURRICANE "CELIA" JULY 31 - AUG. 5, 1970
ALL IN TEXAS
TIDES (FEET):
1. 9.2 Port Aransas Beach
2. 9.0 Port Aransas Jetty
3. 7.9 Mustang Island
4. 5.8 Lavaca Bay
5. 5.3 Baytown
6. 5.0 Morgan Point
7. 4.9 Corpus Christi
8. 4.8 LaPorte
9. 4.7 Kemah
10. 4.2 Bayside (Copano Bay)
11. 4.0 Bayside
12. 4.0 Galveston (Pleasure Pier)
13. 4.0 Freeport
14. 3.5 Texas City
WINDS (MPH):
1. 125 gusts to 161 Corpus Christi Weather Service Office
2. 130 gusts to 150 Aransas Pass
3. 92 gusts to 120 Corpus Christi NAS
4. 85 gusts to 110 Corpus Christi
5. 60 gusts to 89 Del Rio
6. 60 gusts to 96 Rockport
PRESSURE (INCHES):
1. 27.80 Corpus Christi
2. 27.89 Ingleside
3. 28.03 Aransas Pass
4. 28.13 Gregory
5. 28.10 Taft
6. 28.47 Corpus Christi Weather Service Office
7. 28.84 Rockport
8. 29.66 Victoria
11 lives were lost
Damage was $453,000,000
RLC
JGL