

**BEACH CONDITIONS IN FLORIDA:
A STATEWIDE INVENTORY AND
IDENTIFICATION OF THE BEACH
EROSION PROBLEM AREAS IN FLORIDA**

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**BEACHES AND SHORES TECHNICAL
AND DESIGN MEMORANDUM 89-1**



**FLORIDA DEPARTMENT OF NATURAL RESOURCES
Division of Beaches and Shores**

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FOREWORD

This document presents the results of an investigation of beach erosion conditions around the coast of Florida. The identification of erosion problem areas was primarily the result of the author's fifteen years of studying Florida's beaches between 1973 and 1988. The purpose for this publication is to update the beach length data provided in the National Shoreline Study (1971) and to identify and categorize the erosion problem areas along the Florida coast. Given the legislative charge to the Florida beach management program to develop comprehensive long-term management plans for the restoration of the critically eroding beaches, the document specifically identifies those erosion problem areas which are currently considered critically eroding.

The guidance and encouragement of Mr. Lonnie Ryder throughout the preparation of this document is gratefully acknowledged. Also acknowledged is the technical advice and review of Mr. James H. Balsillie and Mr. William K. Whitfield, Jr. The alongshore distance data developed by James H. Balsillie, J. G. Carlen, and Thomas M. Watters was crucial to the precise measurements of beach lengths. Also acknowledged is the expert preparation of the manuscript by Ms. Belinda Goodson.

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INTRODUCTION

Not since the National Shoreline Study was published in August, 1971, have the beach erosion areas in Florida been systematically identified. In 1986, the Florida Division of Beaches and Shores was charged with the responsibility to identify those beaches of the state which are eroding and to develop and maintain a comprehensive long-term management plan for the restoration of the state's critically eroding beaches.

This document is intended to update much of the data contained in the National Shoreline Study for Florida's beaches fronting on the Atlantic Ocean and Gulf of Mexico. The information has been developed to assist coastal engineers and scientists as well as public managers and planners.

All Florida coastal counties fronting the Atlantic Ocean and Gulf of Mexico are summarized with a listing of the erosion problem areas and the total beach lengths. The erosion problem areas are identified by either the Department of Natural Resources reference monument system (R numbers) or by the historical Florida shoreline atlas stations (V numbers). A few areas are not identified by either the R or V numbers because they are areas which are not included in the coastal construction control line program nor have they been included in the historical Florida shoreline atlas'.

The lengths of all Florida beaches fronting the Atlantic Ocean and Gulf of Mexico were calculated using the alongshore distance data available in three documents by James H. Balsillie, J. G. Carlen, and Thomas M. Watters (Beaches and Shores Technical and Design Memorandum Numbers 87-1, 87-3, and 87-4). Because the alongshore distance data also included the widths of the coastal barrier inlets and estuary mouths, the data between points at either side of the inlet or entrance were excluded and actual measurements of only the shorelines were made by the author from either the latest scaled (one inch equals one hundred feet) aerial photography depicting coastal construction control lines or from the scaled (1:2000) historical Florida shoreline atlas'. While these measurements of the total beach lengths differ somewhat on a county by county basis with those lengths presented in the National Shoreline Study there was reasonably good agreement overall. The beach lengths for Monroe, Hillsboro, Pasco, Hernando, Citrus, Levy, Taylor, and Wakulla Counties were obtained by the author's measurements taken from United States Coast and Geodetic Survey navigation charts.

Some discretion was applied when identifying the open water beaches of Florida. Only those beaches were measured which were exposed to the open water of the Gulf of Mexico, Atlantic Ocean, or Straits of Florida, and were not sheltered by a coastal barrier or island shoal (e.g. Dog Island shoal). Because of the lack of available survey data, the Ten Thousand Islands area of

Collier County was omitted from the beach measurements. Included were the more significant beaches between the Ten Thousand Islands and Cape Sable fronting on the Gulf of Mexico in Monroe County; however, insufficient historical data exists for these federal land beaches to identify any erosion problems. Also omitted were any minor coastal barriers which would be predominantly characterized as emerged shoals. Examples of these characteristic shoals are found at the entrance of Nassau Sound (Nassau County), Dog Island Shoal (Franklin County), the emerged barriers between Anclote Key and Honeymoon Island (Pinellas County), the emerged barriers between Pass-A-Grille and Mullet Key (Pinellas County), and Passage Key (Manatee County).

In contrast to the total beach length measurements, the lengths of the erosion problem areas are intended to be close approximations recognizing the subjectivity of identifying their end points and realizing their longshore temporal and spacial variability. However, every effort was made to measure all lengths of the identified erosion problem areas precisely using the same methodology conducted for the total shoreline length measurements. The identifications by control line reference monuments (R numbers) or historical shoreline atlas stations (V numbers) are only intended to reference the nearest points for identity and not the precise end points for measurement.

All the erosion problem areas are depicted on maps for the coastal counties. These maps are intended to provide general location guidance to the user. The erosion problem areas are named in accordance with the best description of their geographical location.

It is realized that some other areas on the Florida coast may arguably be appropriate for inclusion with the listed erosion problem areas. There was no intention to exclude any area. In time, some areas with a low or moderate erosion rate may become erosion problem areas given new trends in development. In other areas, the currently low or moderate erosion rates may substantially accelerate. Changing weather conditions and unpredictable major storm events will play a predominate role in the creation or deletion of erosion problem areas. It is to lament from a resource management perspective that the list of erosion problem areas should continue to expand given long term growth of development and recreation interests on the Florida coast plus any expected continuation of the rising sea level and the growing shortage of sand available to naturally replenish the beaches during major coastal storm erosion events.

The beach erosion problem areas have been identified to include those shoreline segments falling into the following three specific categories:

- I. High erosion rate or recent significant erosion conditions, with or without adjacent development,
- II. Moderate or low erosion rate, but with a narrow beach fronting a highly developed area, and
- III. Restored beaches with an active maintenance nourishment program.

Most of the Atlantic coast erosion problem areas north of Palm Beach County, and most of the Gulf coast erosion problem areas are identified by the first category. In the second category, some highly developed areas with a narrow beach also have threatening erosion problems even though the rate of erosion is reasonably low. On the Atlantic coast there are a few of these areas in Flagler, Indian River, Martin, and Monroe Counties plus most of the unrestored areas of Palm Beach and Broward Counties. On the lower Gulf coast these areas exist in much of Manatee, Sarasota, Lee, and Collier Counties, and in much of the unrestored area of Pinellas County. Only Shell Point on the northern Gulf coast has been included in this second category.

The third specific category, restored beaches having an active maintenance nourishment program, included twenty-three segments of beach restoration or feeder beach nourishment projects. Seventeen of these have been located on the Atlantic coast with three located north of Cape Canaveral and fourteen located south of the Cape where the majority of beach restoration has been conducted in Florida. Six of these segments have been located on the Gulf coast, all in south Florida.

Subsection 161.161 (1), Florida Statutes, charges the Division of Beaches and Shores to "develop and maintain a comprehensive long-term management plan for the restoration of the state's critically eroding beaches. The beach management plan shall address long-term solutions to the problem of critically eroding beaches in this state."

The designation of an eroding beach as one which is critically eroding is an important prerequisite in the beach management plan for the state. The United States Army Corps of Engineers (1971) defined critical erosion areas as "where the rate of erosion indicates that action to halt the erosion may be justified, when considered in conjunction with economic, industrial, recreational, agricultural, navigational, demographic, ecological, and other relevant factors."

Of all the erosion problem areas around Florida, many areas have significant erosion conditions, yet the erosion processes do not currently threaten public or private interests. These areas are not good candidates for the expenditure of public funds for beach restoration projects. In contrast, in some areas the erosion processes are not particularly significant except to the extent that adjacent development or recreation interests may be threatened. Whether erosion is critical results from the existence of a threat to interests in need of protection. Lacking any threat an erosion condition is not a critical problem.

For the purpose of Florida's beach management planning concise definitions are necessary to differentiate between the general categories of critical and noncritical erosion. The following definitions have evolved for this purpose:

Critical erosion areas are segments of the shoreline where substantial development or recreational interests are threatened by the erosion processes.

Noncritical erosion areas are segments of the shoreline where the erosion processes do not currently threaten any substantial development or recreational interests.

In addition to the three specific categories, the identified erosion problem areas have been categorized as either representing critical erosion conditions or noncritical erosion conditions. The erosion problem areas identified for the north Atlantic coast appear equally divided as critical or noncritical erosion areas. The south Atlantic coast areas are predominantly critical erosion areas. In contrast the north Gulf coast areas are predominantly noncritical erosion areas. Except for the northern most coastal barriers in Pinellas County, the areas within Pinellas, Manatee, and Sarasota Counties are critical erosion areas. In Charlotte, Lee, and Collier Counties the more sparsely developed coastal barriers generally have noncritical erosion areas and the heavily developed coastal barriers generally have critically erosion areas.

All areas of the third specific category, that is, areas which have been restored and are being maintained, have been identified as critical erosion areas. The threat to substantial development or recreational interests was a prerequisite to the restoration of these beaches. The continued identification of these restored beaches as critical erosion areas is consistent with the statutory intent of addressing and prioritizing long-term solutions to the problem of critically eroding beaches in this state.

A listing of all the categorized erosion problem areas is included in this document with their identification by the control line reference monuments or the historical shoreline atlas stations. Some of the identified erosion problem areas have been subdivided where they represent segments divided between critical and noncritical erosion areas or restored and unrestored erosion areas. For these reasons the categorized listing is of greater length than the summary of identified erosion problem areas.

Most of Florida's beach erosion problems, particularly much of the critical erosion, has resulted from the stabilization, construction, and development of barrier tidal inlets. Many of the natural undeveloped inlets, dynamic in their geomorphology, are also responsible for many of the erosion problem areas. A compilation of the erosion problem areas would therefore be incomplete without also listing the barrier inlets currently existing. For this reason the Florida inlets have been summarized along with the adjacent areas of significant erosion.

The final inclusion in this document is an extensive reference list provided on a county basis. Hopefully this reference list will be a useful tool to a variety of professionals and governmental users. A potential user can obtain a "first impression" of any beach area in the state plus a reference list for any area of interest.

EROSION PROBLEM AREAS ALONG
FLORIDA ATLANTIC OCEAN SHORELINE

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
NASSAU COUNTY		
Fort Clinch and Fernandina Beach	R9-R33	4.4
South Amelia Island	R70-R80	<u>1.5</u>
		5.9
DUVAL COUNTY		
South end of Little Talbot Island	R22-R25	0.4
St. Johns River to St. Johns County	V501-R80	<u>10.0</u>
		10.4
ST. JOHNS COUNTY		
North of Vilano Beach	R110-R117	1.4
Porpoise Point	R122	0.1
Northern Anastasia Island	R135-R148	2.5
Summer Haven	R197-R209	<u>2.4</u>
		6.4
FLAGLER COUNTY		
Marineland	R1-R4	0.6
Flagler Beach	R77-R90	<u>2.3</u>
		2.9

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
VOLUSIA COUNTY		
Daytona Beach Shores to Ponce Inlet	R117-R148	5.6
Bethune Beach to Turtle Mound	R194-R214	<u>3.7</u>
		9.3
BREVARD COUNTY		
Canaveral National Seashore	V020-V066	8.7
Cape Canaveral north shore	V117-V136	3.6
Canaveral	R1-R12	2.0
Cocoa Beach through Satellite Beach	R29-R98	12.3
Indiatlantic	R132-R143	<u>2.0</u>
		28.6
INDIAN RIVER COUNTY		
Sebastian Inlet through Ambersand Beach	R1-R16	2.9
Wabasso Beach	R37-R40	0.6
Vero Beach	R70-R86	<u>3.1</u>
		6.6
ST. LUCIE COUNTY		
Fort Pierce Beach	R34-R40	1.1
Hutchinson Island	R54-R70	<u>3.0</u>
		4.1

LocationDNR MonumentsLength, Miles

MARTIN COUNTY

Jensen Beach	R1-R8	1.2
Tiger Shores	R18-R20	0.4
Sailfish Point	R34-R40	1.0
Jupiter Island	R45-R110	11.3
South of Blowing Rocks	R126-R127	<u>0.2</u>
		14.1

PALM BEACH COUNTY

Southern Jupiter Island	R3-R9	1.0
Jupiter and Juno Beach	R12-R36	4.6
Singer Island	R67-R69	0.4
Palm Beach	R80-R116	7.8
South Palm Beach	R133-R137	0.7
Ocean Ridge	R152-R160	1.7
Delray Beach	R176-R190	3.0
North Boca Raton	R204-R212	1.6
South Boca Raton	R223-R227	<u>1.0</u>
		21.8

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
BROWARD COUNTY		
Hillsboro Beach	R7-R23	3.1
Pompano Beach through Ft. Lauderdale	R25-R67	8.0
John U. Lloyd State Recreation Area	R86-R95	1.7
Hollywood and Hallendale	R100-R128	<u>5.4</u>
		18.2
DADE COUNTY		
Broward County line to Baker's Haulover	R1-R27	5.1
Miami Beach	R27-R74	9.4
Fisher Island	R75-R77	0.5
Virginia Key	R84-R86	0.4
Key Biscayne	R101-R113	<u>2.4</u>
		17.8
MONROE COUNTY		
Bahia Honda Key	None	0.9
Key West	None	3.5
Fort Zachary Taylor	None	<u>0.2</u>
		4.6

EROSION PROBLEM AREAS ALONG
FLORIDA GULF OF MEXICO SHORELINE

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
ESCAMBIA COUNTY		
East Perdido Key	R31-R65	6.5
Fort Pickens and Pensacola Beach	R79-R136	10.7
Navarre Beach to Navarre Pass	R205-R214	<u>1.9</u>
		19.1
SANTA ROSA COUNTY		
None		
OKALOOSA COUNTY		
East end of Santa Rosa Island	V612-V621	1.7
WALTON COUNTY		
None		

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
BAY COUNTY		
Phillips Inlet, Hollywood, Sunnyside	A38-R20	4.1
Panama City Beach to St. Andrews Inlet	R63-R97	6.8
Shell Island	R98-V009	6.1
Unnamed barrier beach	None	1.9
Crooked Island	V018-V040	4.2
Mexico Beach	R127-R144	<u>2.8</u>
		25.9
GULF COUNTY		
St. Joseph Peninsula	R41-R114	14.3
Indian Peninsula	R150-R162	<u>2.6</u>
		16.9
FRANKLIN COUNTY		
St. Vincent Island	V17-V34	3.2
West end of Little St. George Island	R3-R5	0.4
Cape St. George	R17-R24	1.3
Western St. George Island	R34-R51	3.2
St. George Plantation	R53-R69	3.3
East end of St. George Island	R147-R149	0.5
Western Dog Island	R157-R170	2.4
Eastern Dog Island	R180-R184	0.7
West end of Alligator Point	R194-R196	0.4
Southwest Cape, Alligator Point	R210-R216	1.1
Lighthouse Point	R220-R229	<u>1.8</u>
		18.3

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
WAKULLA COUNTY		
Mashes Sands	None	1.0
Shell Point	None	<u>1.0</u>
		2.0
LEVY COUNTY		
Seahorse Key	None	1.2
PINELLAS COUNTY		
Anclote Key	None	2.2
Honeymoon Island	R6-R12	1.4
Caladesi Island	R16-R25	1.7
Clearwater Beach Island	R36-R40	0.8
Clearwater Pass north shoreline	R47-R49	0.5
Sand Key	R60-R115	10.6
Treasure Island	R126-R143	3.5
Long Key	R144-R163	3.6
Mullet Key	R169-R181	<u>2.2</u>
		26.5
HILLSBOROUGH COUNTY		
Egmont Key	None	2.1

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
MANATEE COUNTY		
North end of Anna Maria Island	R2-R5	0.4
Holmes Beach, Anna Maria Island	R12-R19	1.3
Holmes Beach and Bradenton Beach	R21-R36	2.9
Northern Longboat Key	R47-R54	1.4
Longboat Key to Sarasota County	R62-R67	<u>1.0</u>
		7.0

SARASOTA COUNTY		
Southern Longboat Key	R1-R17	3.1
Lido Key	R30-R37	1.2
Siesta Key on Big Sarasota Pass	R44A-R45	0.7
North Siesta Key	R46-R47	0.2
Point of Rocks to Midnight Pass	R64-R77	2.4
Casey Key	R81-R96	2.9
Venice to Caspersen Beach	R116-R141	4.7
Manasota Key	R168-R177	<u>1.7</u>
		16.9

CHARLOTTE COUNTY		
Manasota Key	R1-R6	0.9
Englewood to Stump Pass	R13-R20	1.3
Knight Island	R27-R29	0.4
North Little Gasparilla Island	R46-R49	<u>0.6</u>
		3.2

<u>Location</u>	<u>DNR Monuments</u>	<u>Length, Miles</u>
LEE COUNTY		
Southern Gasparilla Island	R8-R26	3.7
Cayo Costa	R46-R52	1.2
South end of Cayo Costa	R60-R65	1.0
North end of North Captiva Island	R66-R71	1.0
Southern North Captiva Island	R74-R81	2.0
Captiva Island	R87-R109	4.3
North end of Sanibel Island	R109-R118	1.7
Estero Island	R181-R200	3.8
South end of Estero Island	R208-R210	0.3
North shoreline of Lover's Key	R211-R212	0.3
Lover's Key	R215-R220	0.9
Big Hickory Island and Bonita Beach	R225-R239	<u>2.9</u>
		23.1
COLLIER COUNTY		
Vanderbilt Beach	R22-R29	1.3
Park Shore	R51-R57	1.1
Naples	A12-R89	5.6
Northern Keewaydin Island	R90-R103	2.4
Coconut Island	R127-R128	1.5
North Marco Island	R135-R140	1.0
South Marco Island	R144-R148	0.7
Kice Island	None	2.5
Morgan Island	None	<u>1.7</u>
		17.8
MONROE COUNTY		
Unknown	None	Unknown

FLORIDA GULF OF MEXICO BEACHES

<u>COUNTY</u>	<u>EROSION, MILES</u>	<u>TOTAL LENGTH, MILES</u>
Escambia	19.1	40.9
Santa Rosa	0.0	3.0
Okaloosa	1.7	23.9
Walton	0.0	25.6
Bay	25.9	41.2
Gulf	16.9	28.8
Franklin	18.3	54.6
Wakulla	2.0	2.5
Jefferson	0.0	0.0
Taylor	0.0	0.5
Dixie	0.0	0.0
Levy	1.2	2.0
Citrus	0.0	0.5
Hernando	0.0	0.5
Pasco	0.0	0.5
Pinellas	26.5	36.2
Hillsborough	2.1	2.1
Manatee	7.0	12.3
Sarasota	16.9	34.7
Charlotte	3.2	12.2
Lee	23.1	47.3
Collier	17.8	34.1 *
Monroe	<u>unknown</u>	<u>16.2</u>
	181.7	419.6

*Ten Thousand Islands area not included.

FLORIDA ATLANTIC OCEAN BEACHES

<u>COUNTY</u>	<u>EROSION, MILES</u>	<u>TOTAL LENGTH, MILES</u>
Nassau	5.9	12.7
Duval	10.4	15.0
St. Johns	6.4	41.1
Flagler	2.9	18.1
Volusia	9.3	48.8
Brevard	28.6	71.6
Indian River	6.6	22.4
St. Lucie	4.1	21.5
Martin	14.1	21.4
Palm Beach	21.8	45.3
Broward	18.2	24.0
Dade	17.8	20.8
Monroe	<u>4.6</u>	<u>12.7</u>
	150.7	375.4

SUMMARY

	<u>EROSION, MILES</u>	<u>TOTAL LENGTH, MILES</u>
Gulf Coast	181.7	419.6
Atlantic Coast	<u>150.7</u>	<u>375.4</u>
	332.4	795

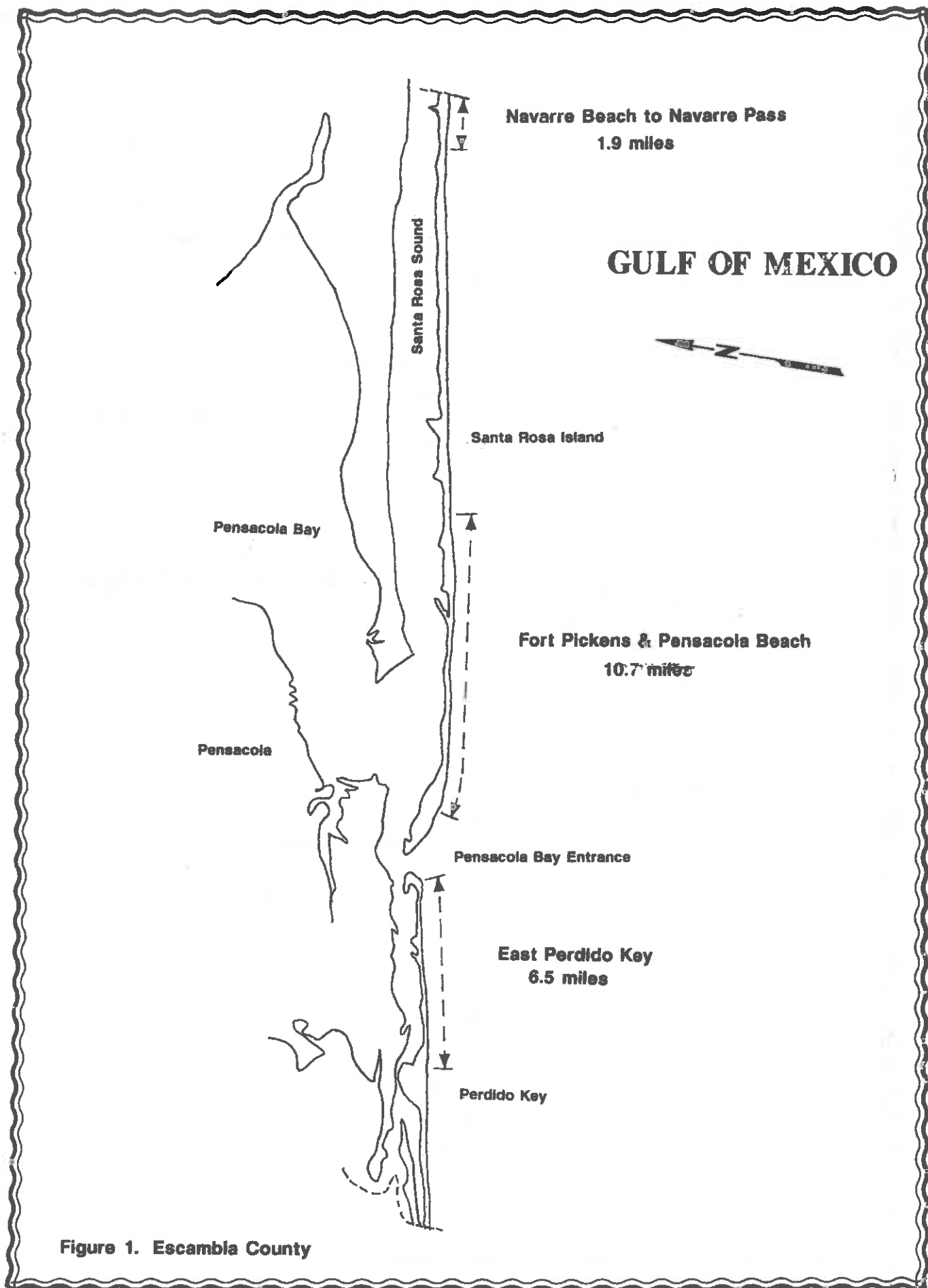


Figure 1. Escambia County

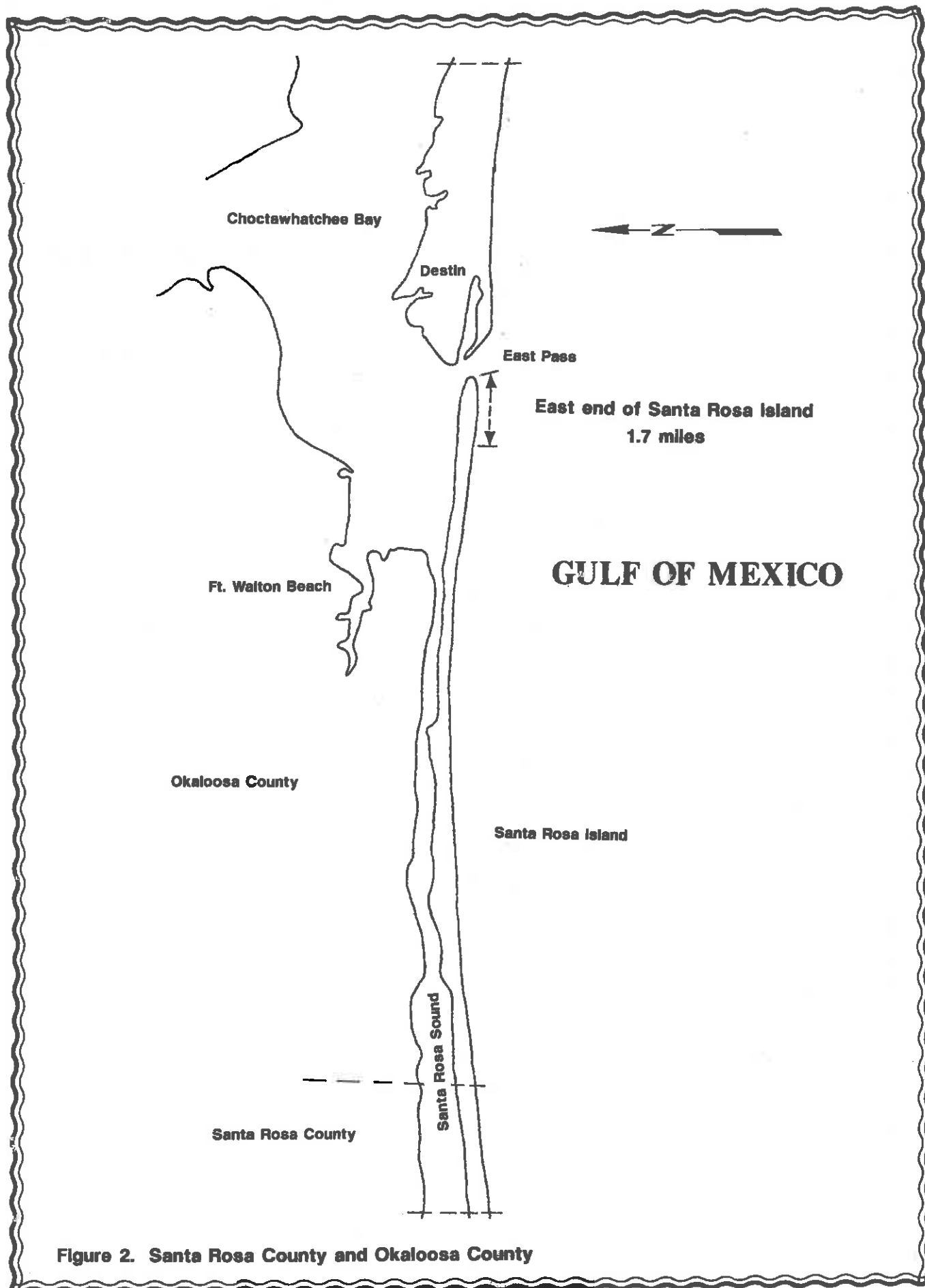
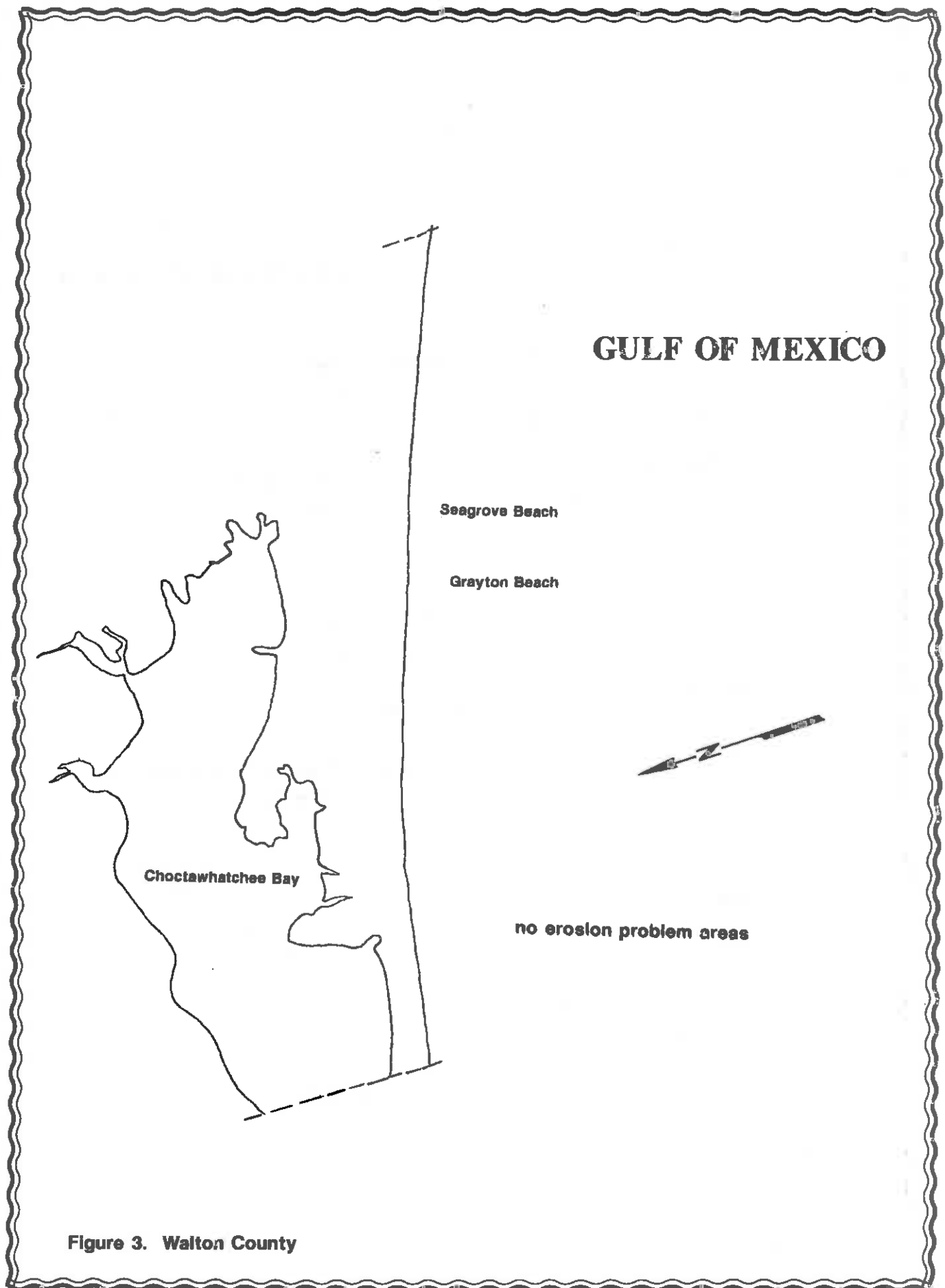


Figure 2. Santa Rosa County and Okaloosa County



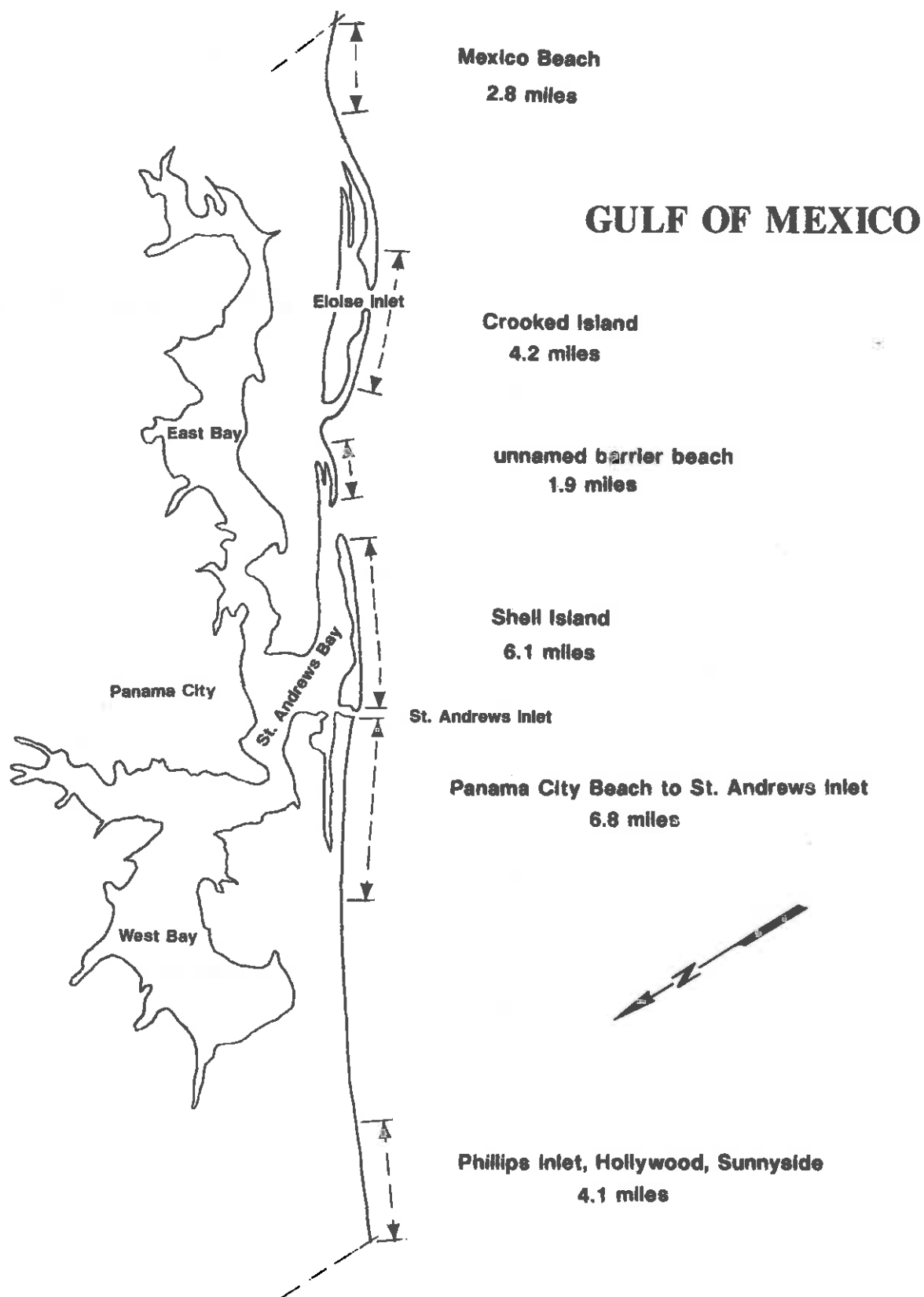
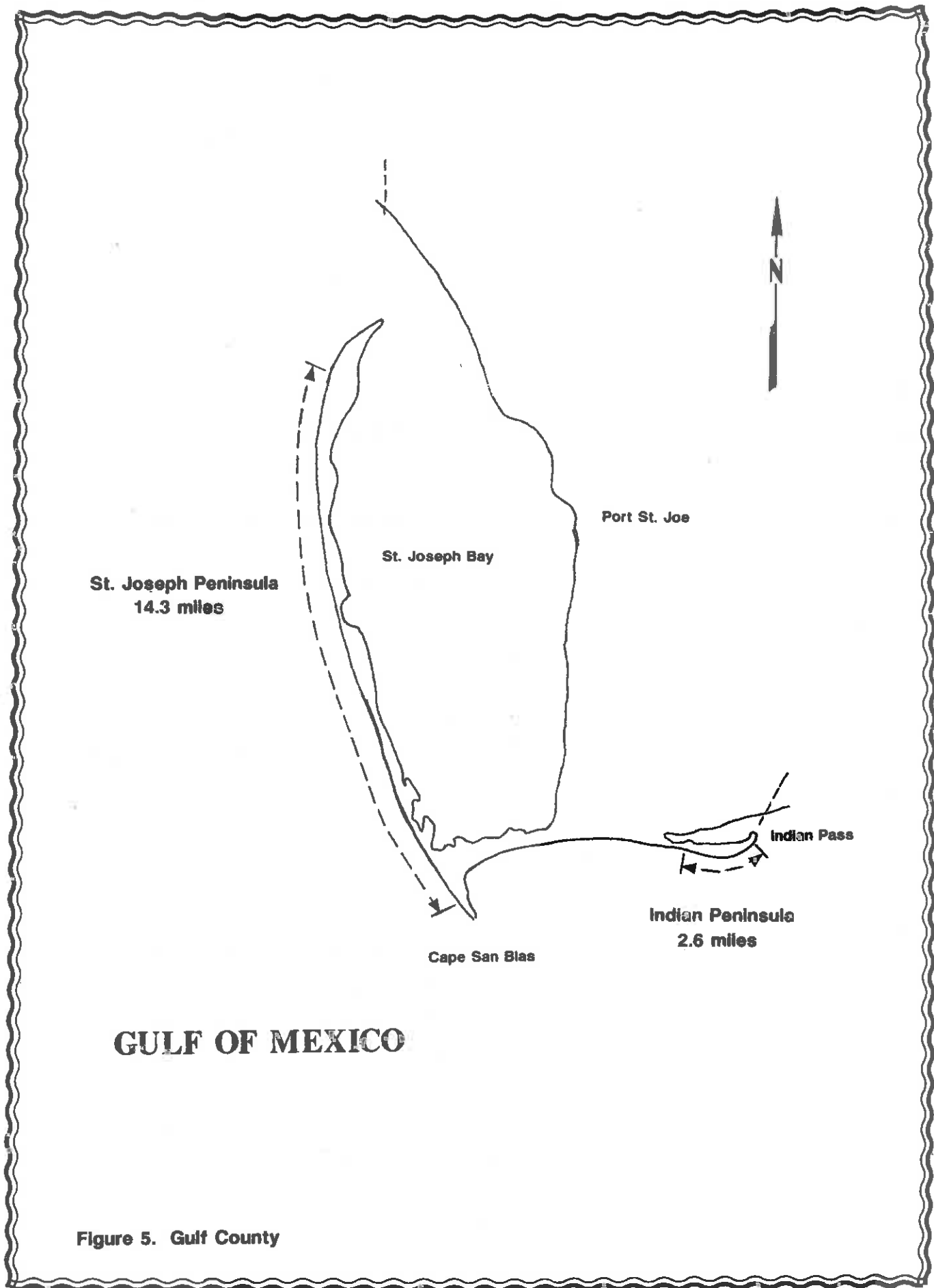


Figure 4. Bay County



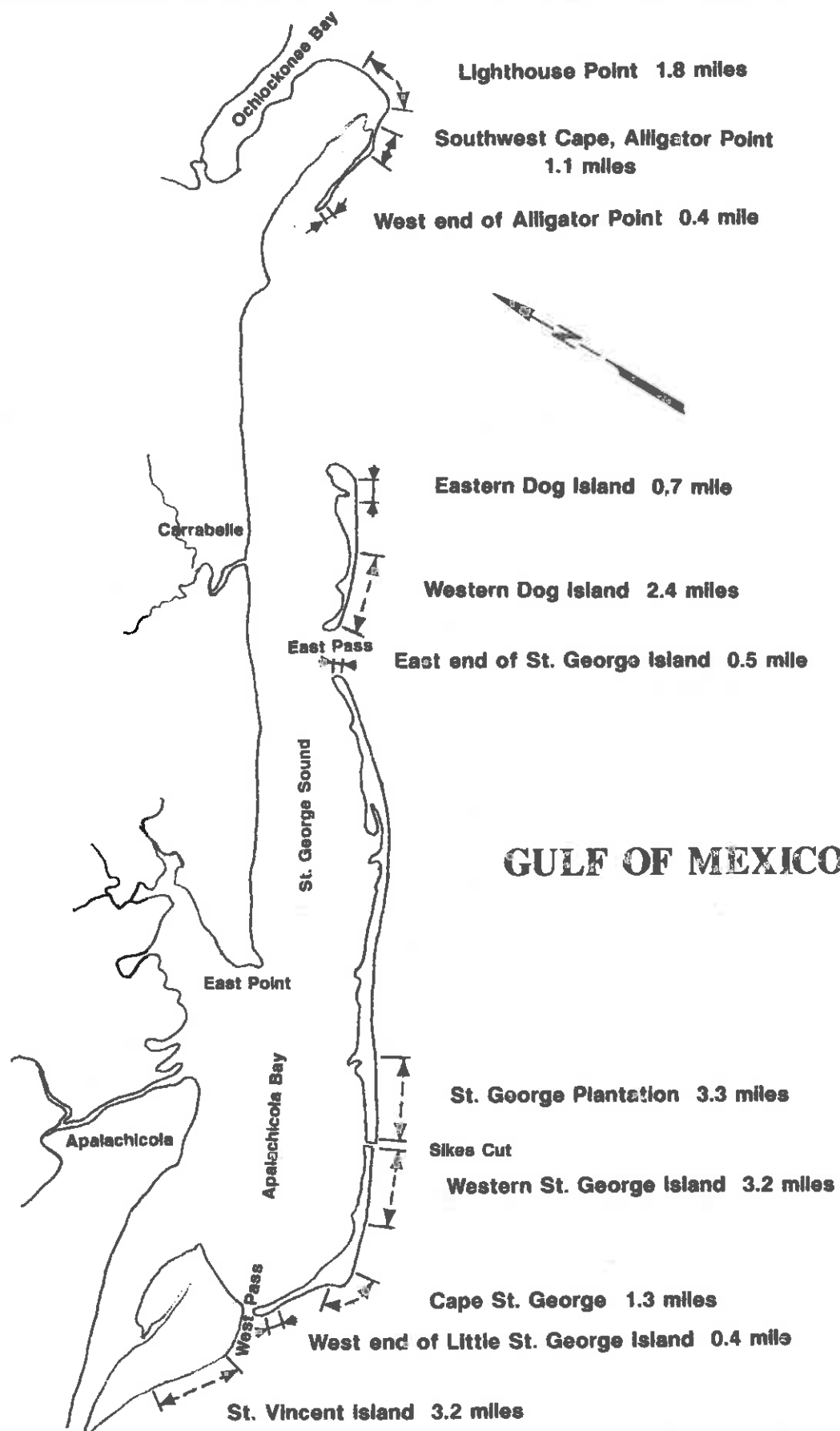
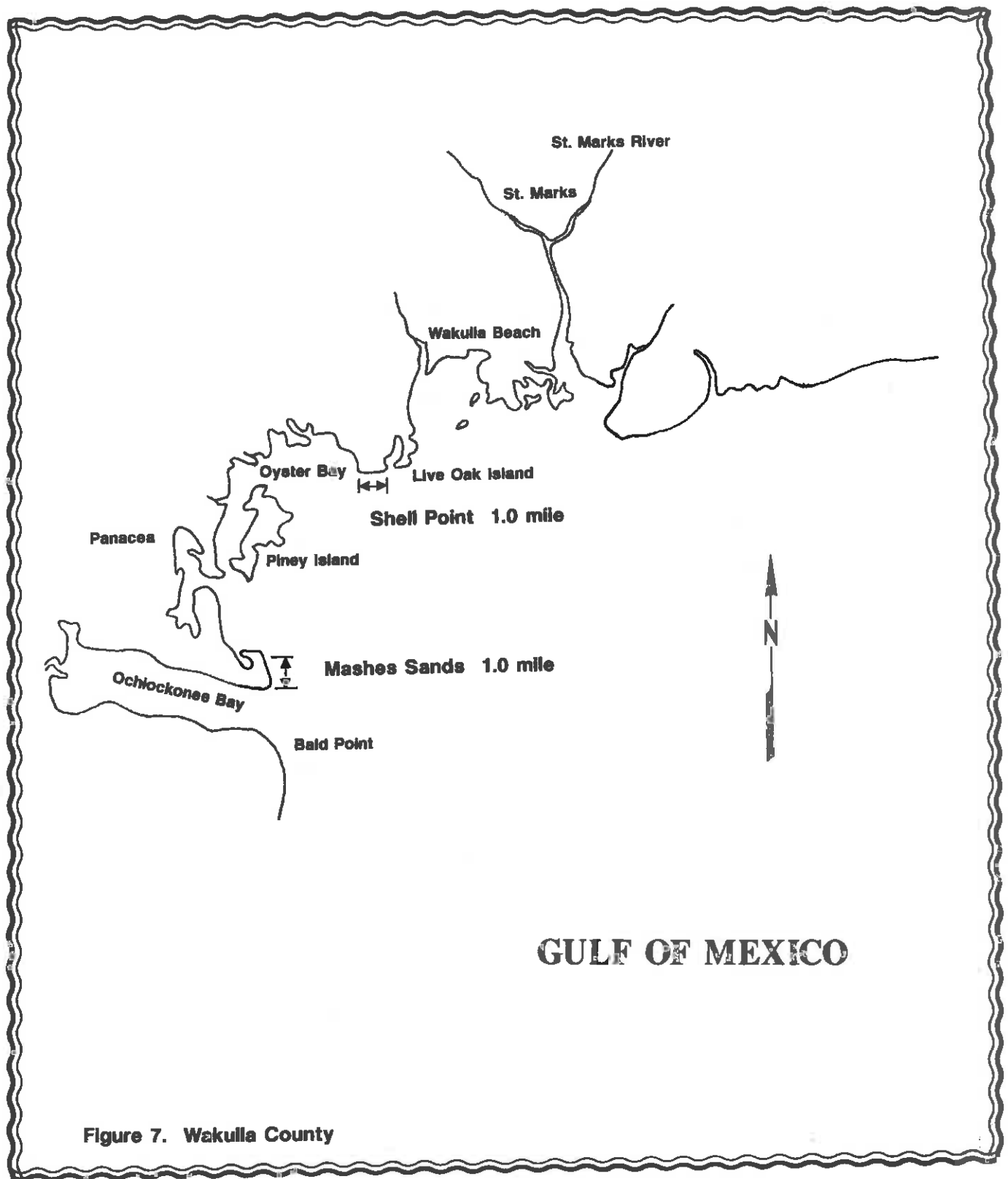


Figure 6. Franklin County



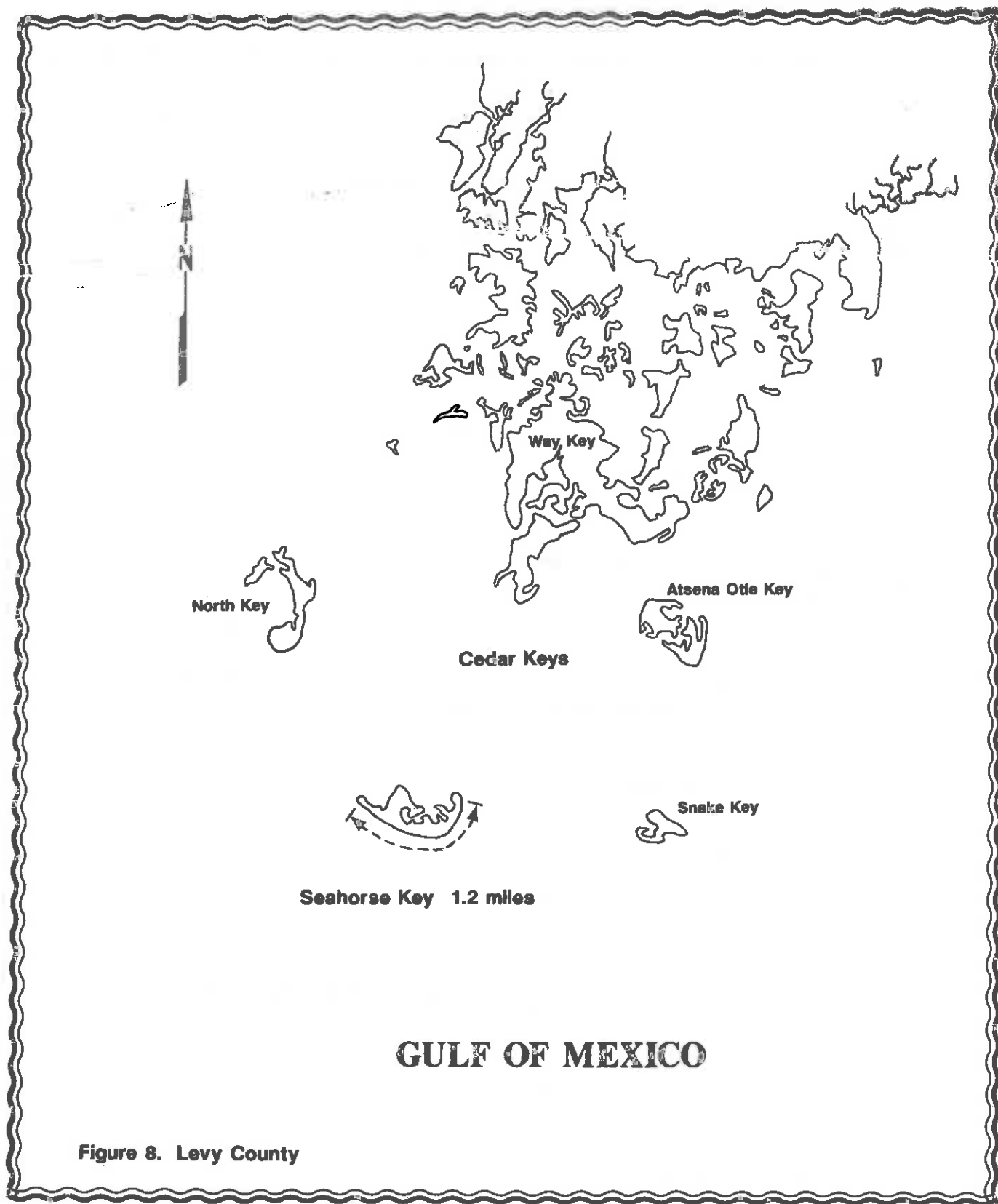
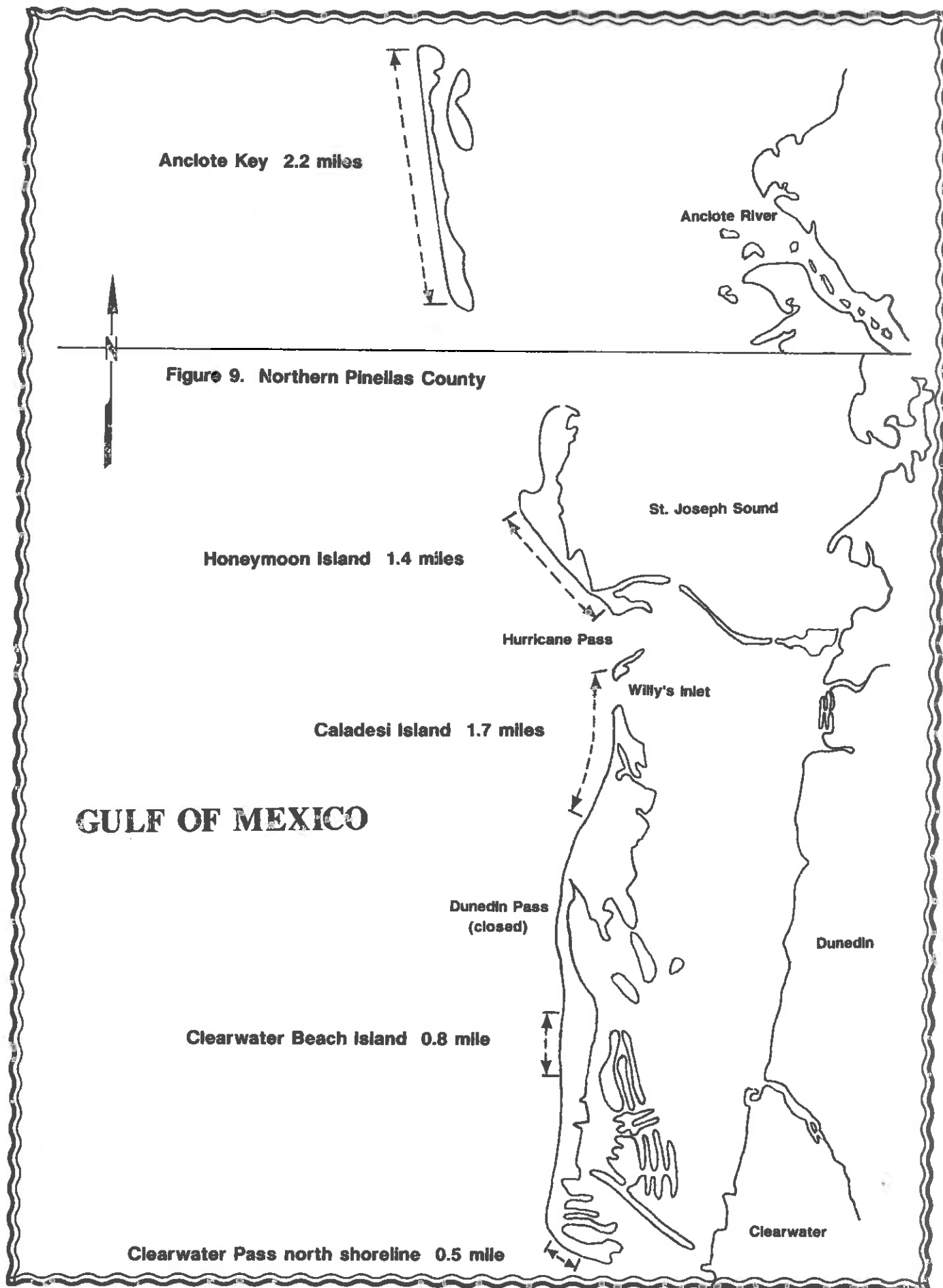


Figure 8. Levy County



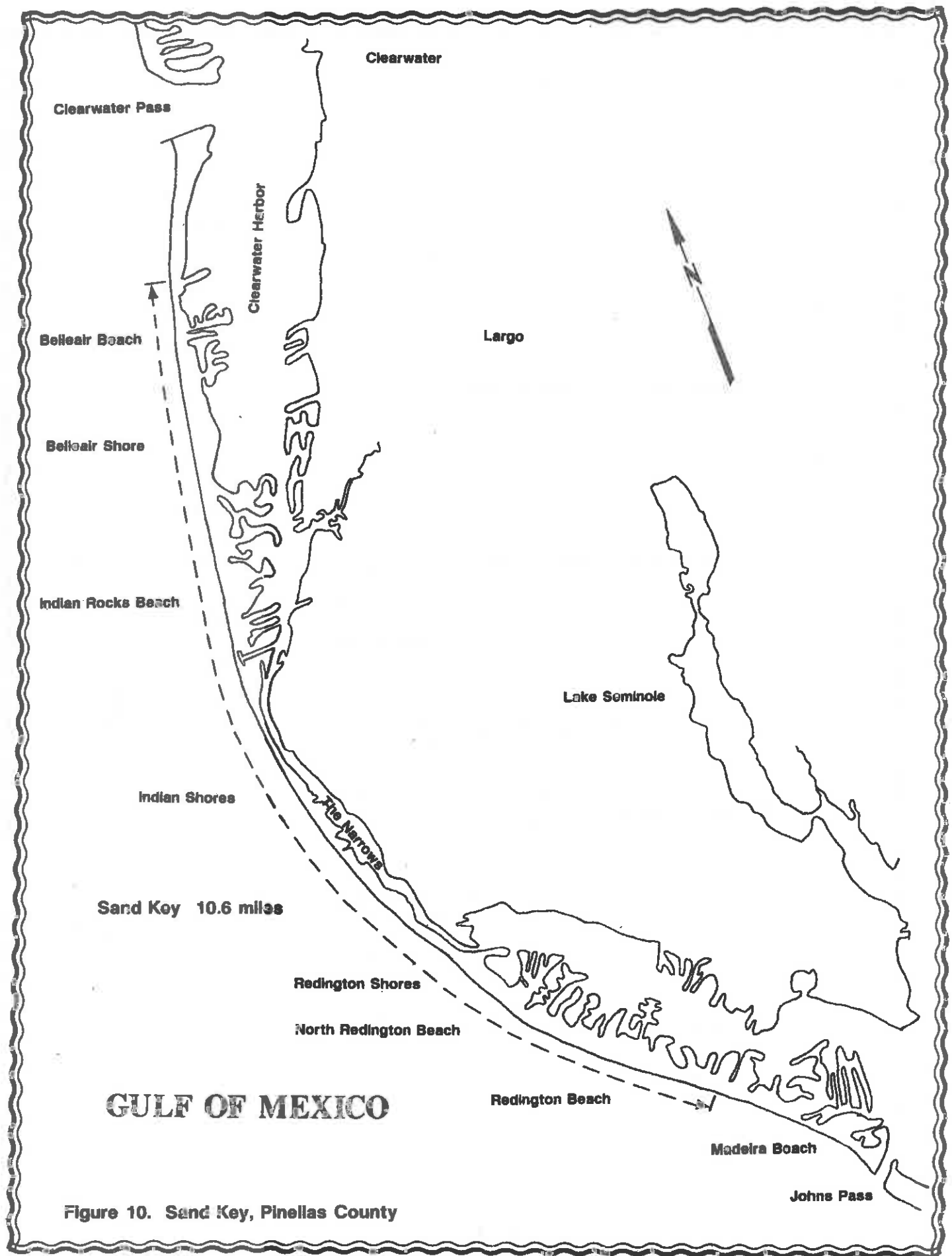
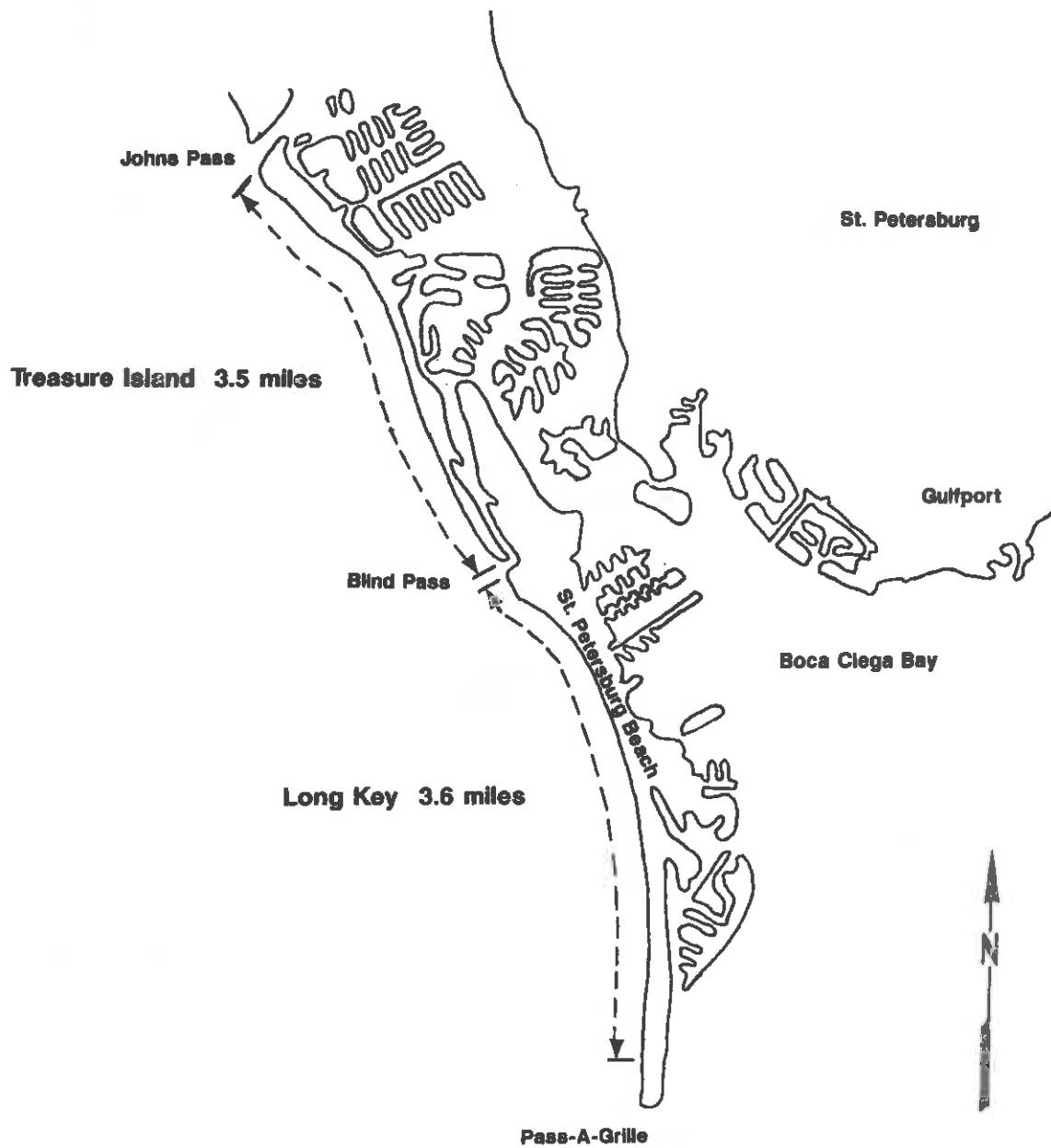


Figure 10. Sand Key, Pinellas County



GULF OF MEXICO

Figure 11. Treasure Island and Long Key, Pinellas County

GULF OF MEXICO

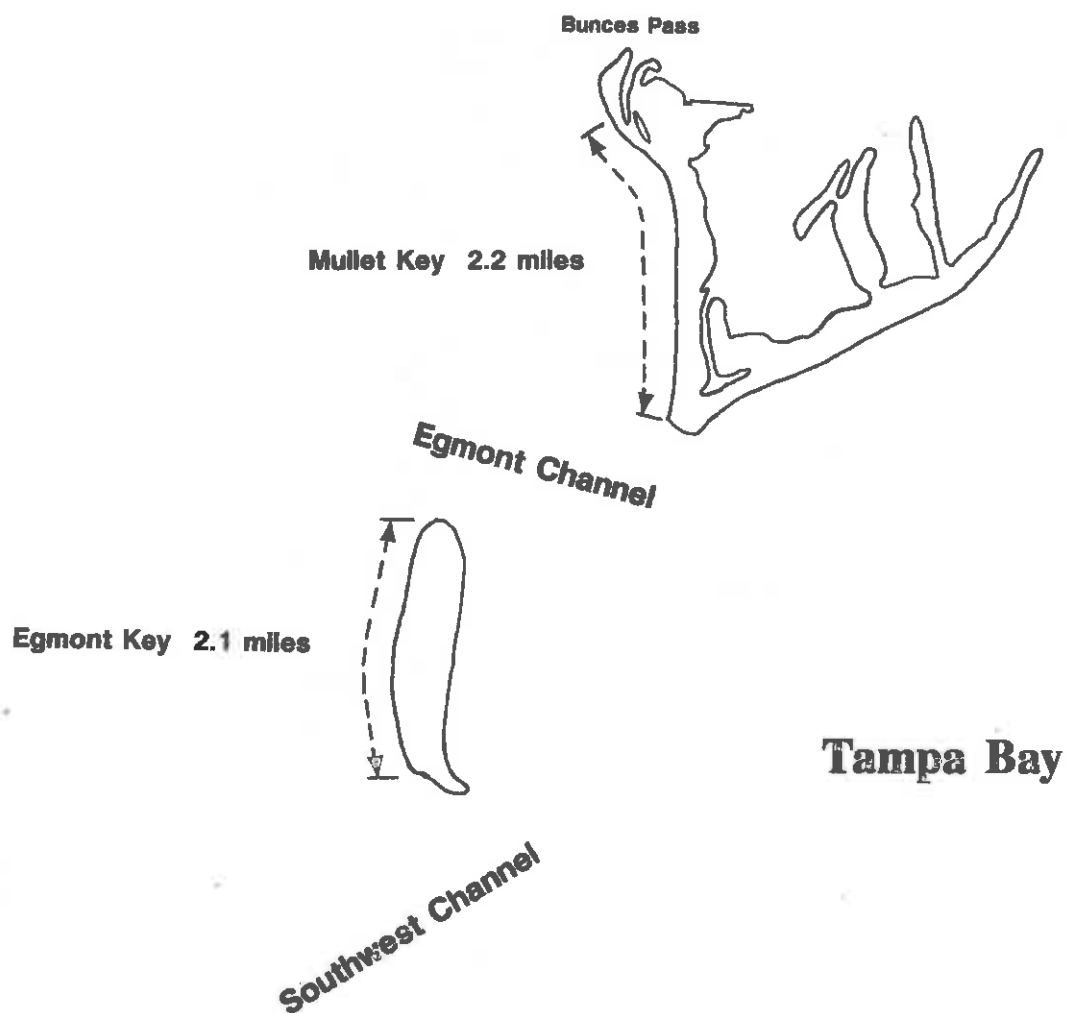


Figure 12. Southern Pinellas County and Hillsborough County



Figure 13. Manatee County

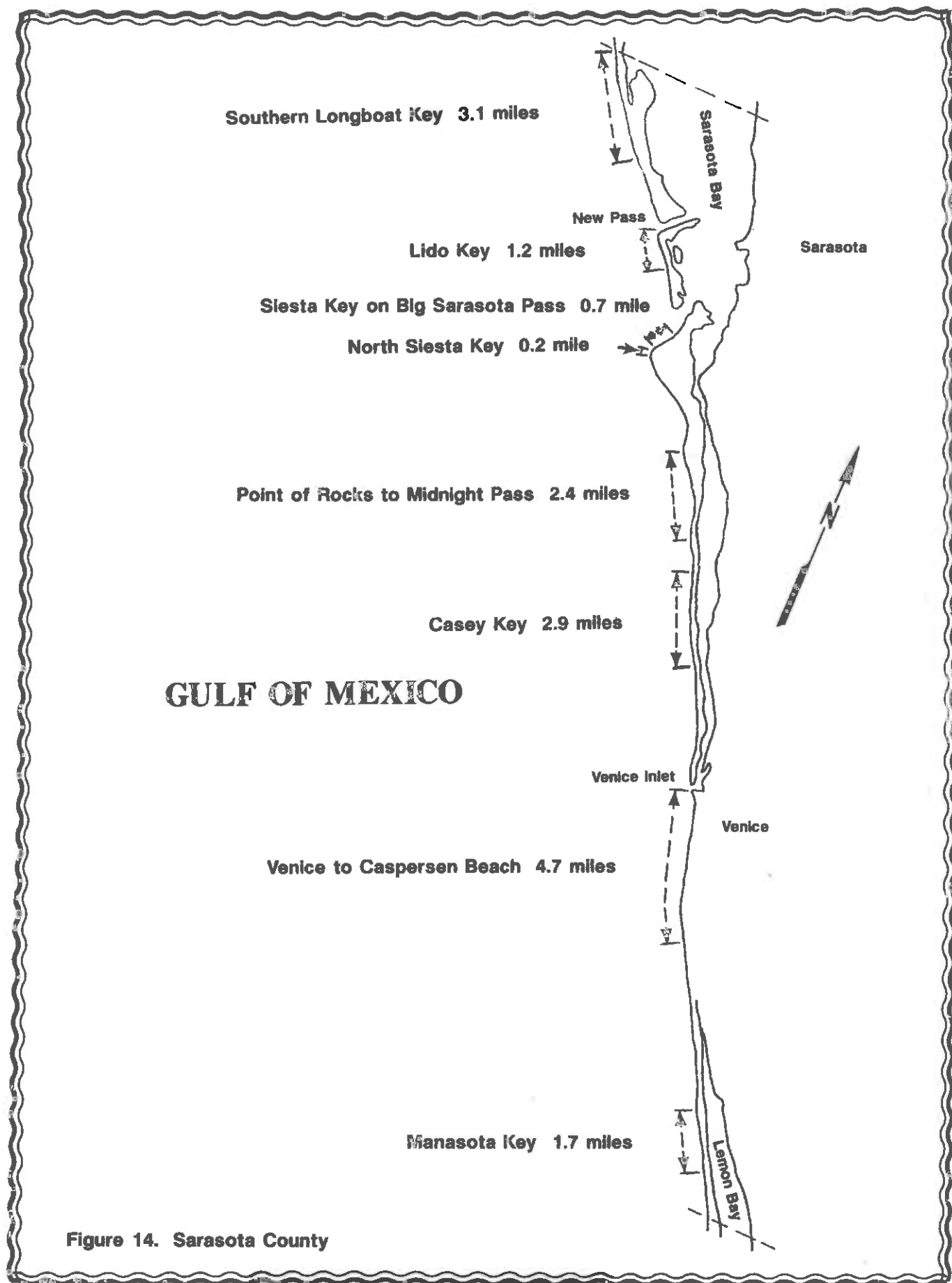
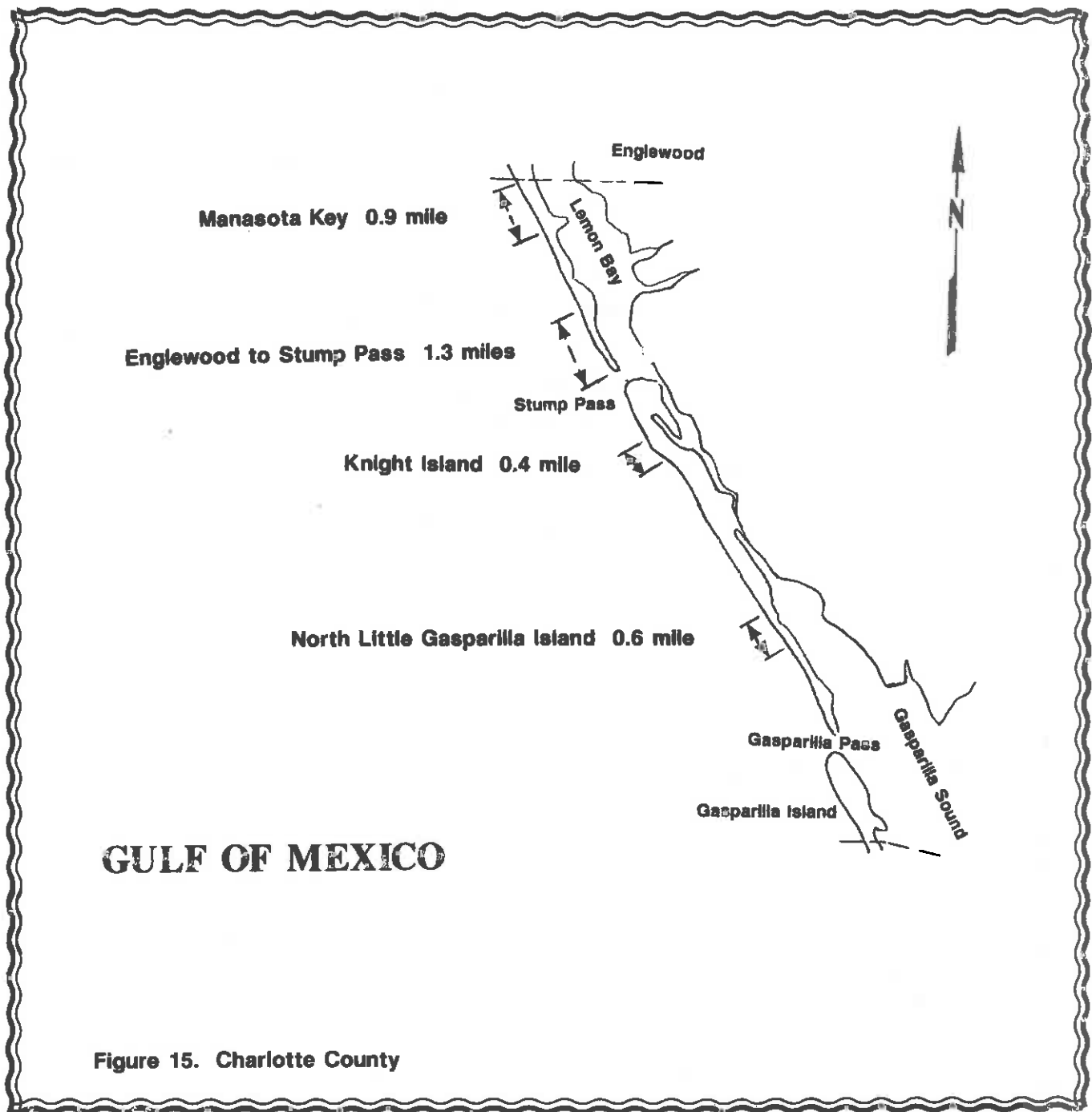


Figure 14. Sarasota County



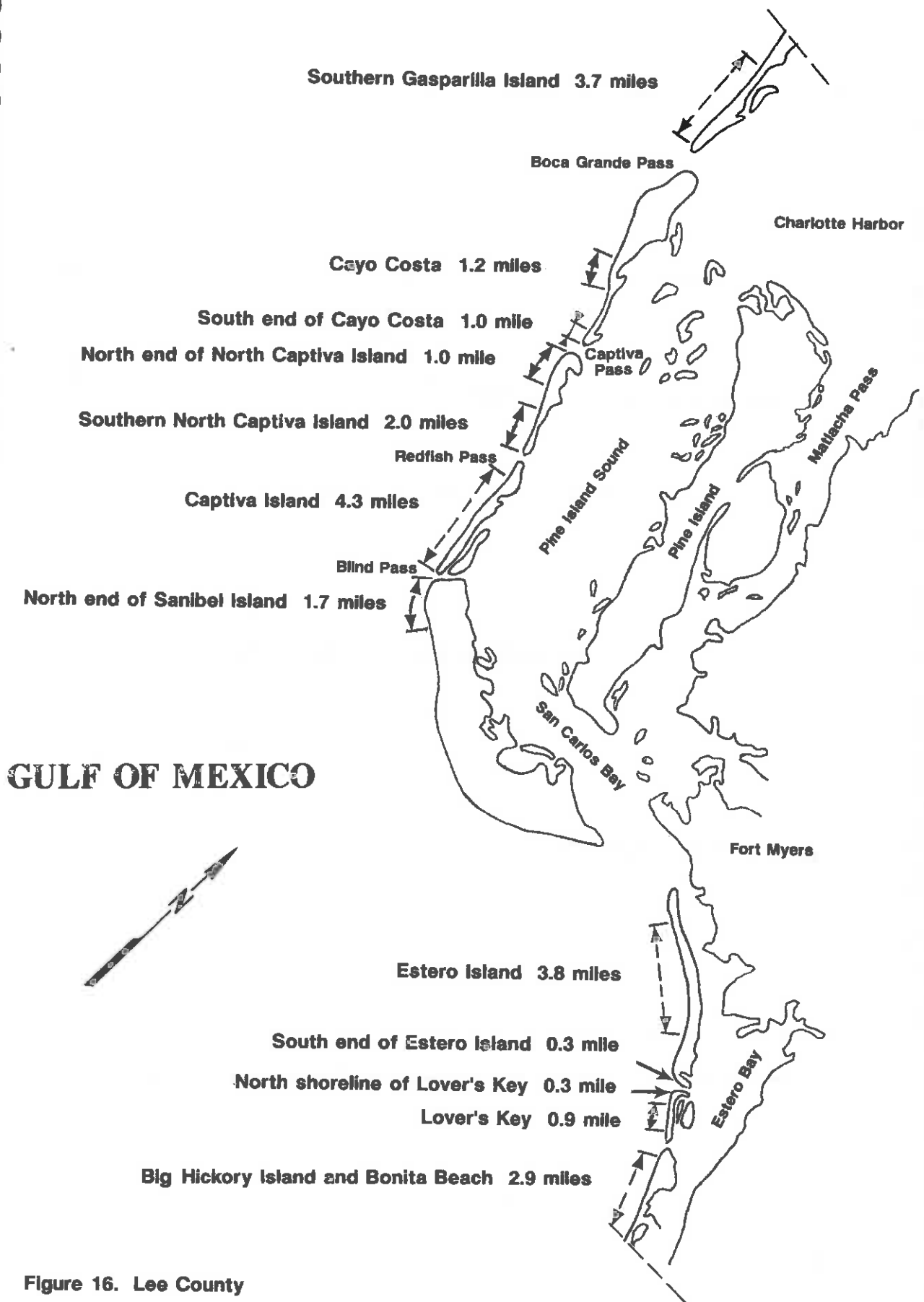


Figure 16. Lee County

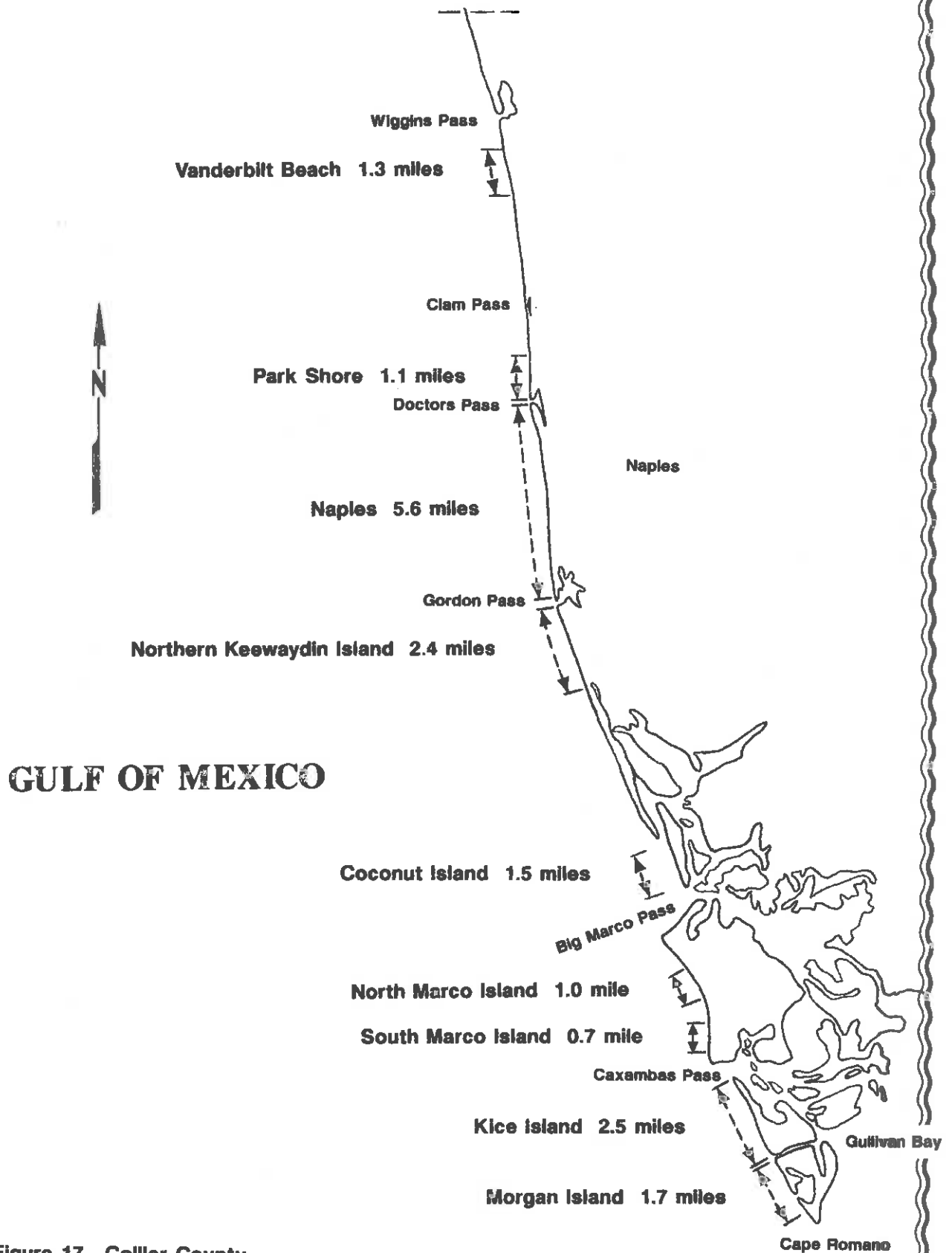


Figure 17. Collier County



Figure 18. Gulf Coast of Monroe County

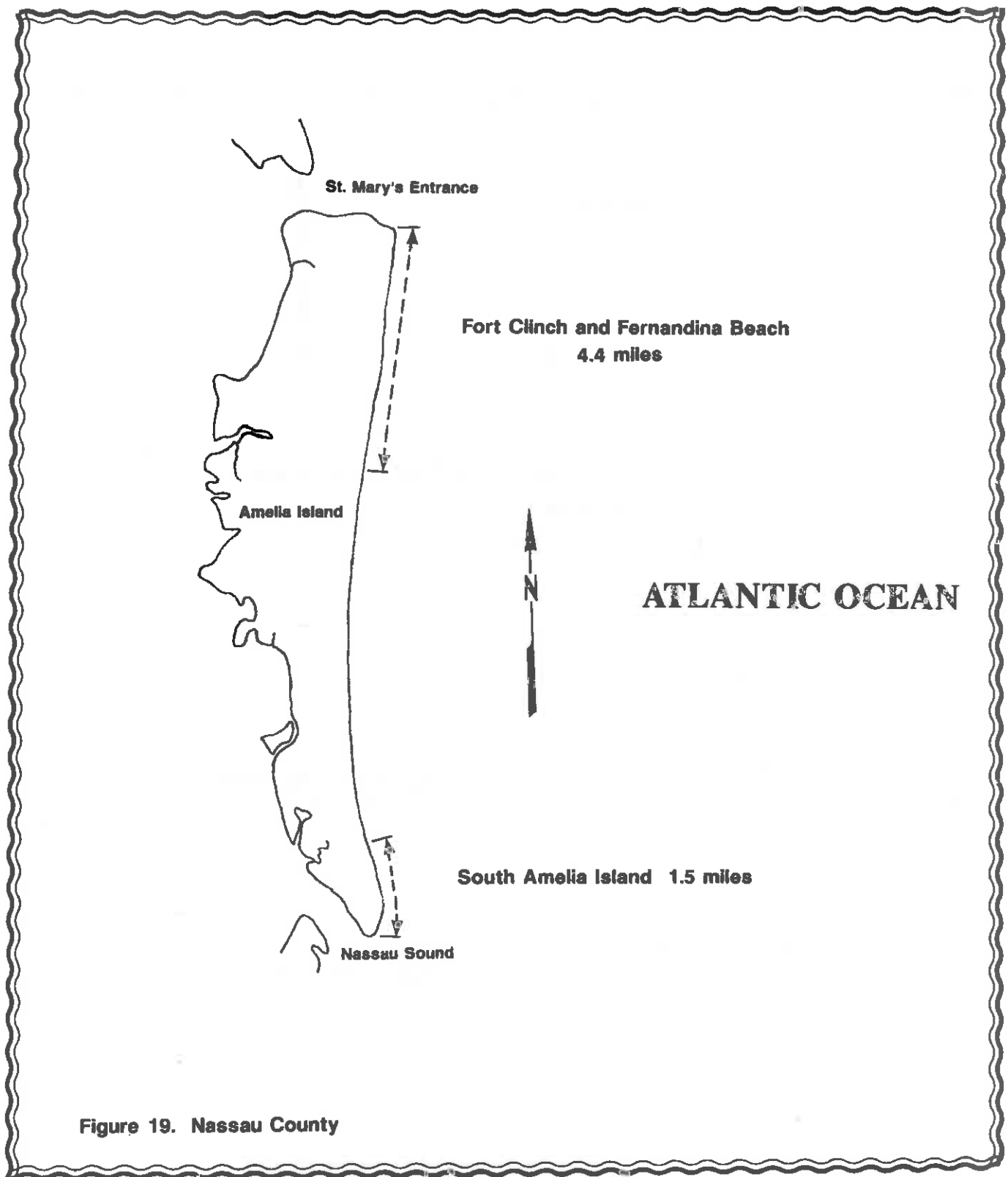


Figure 19. Nassau County

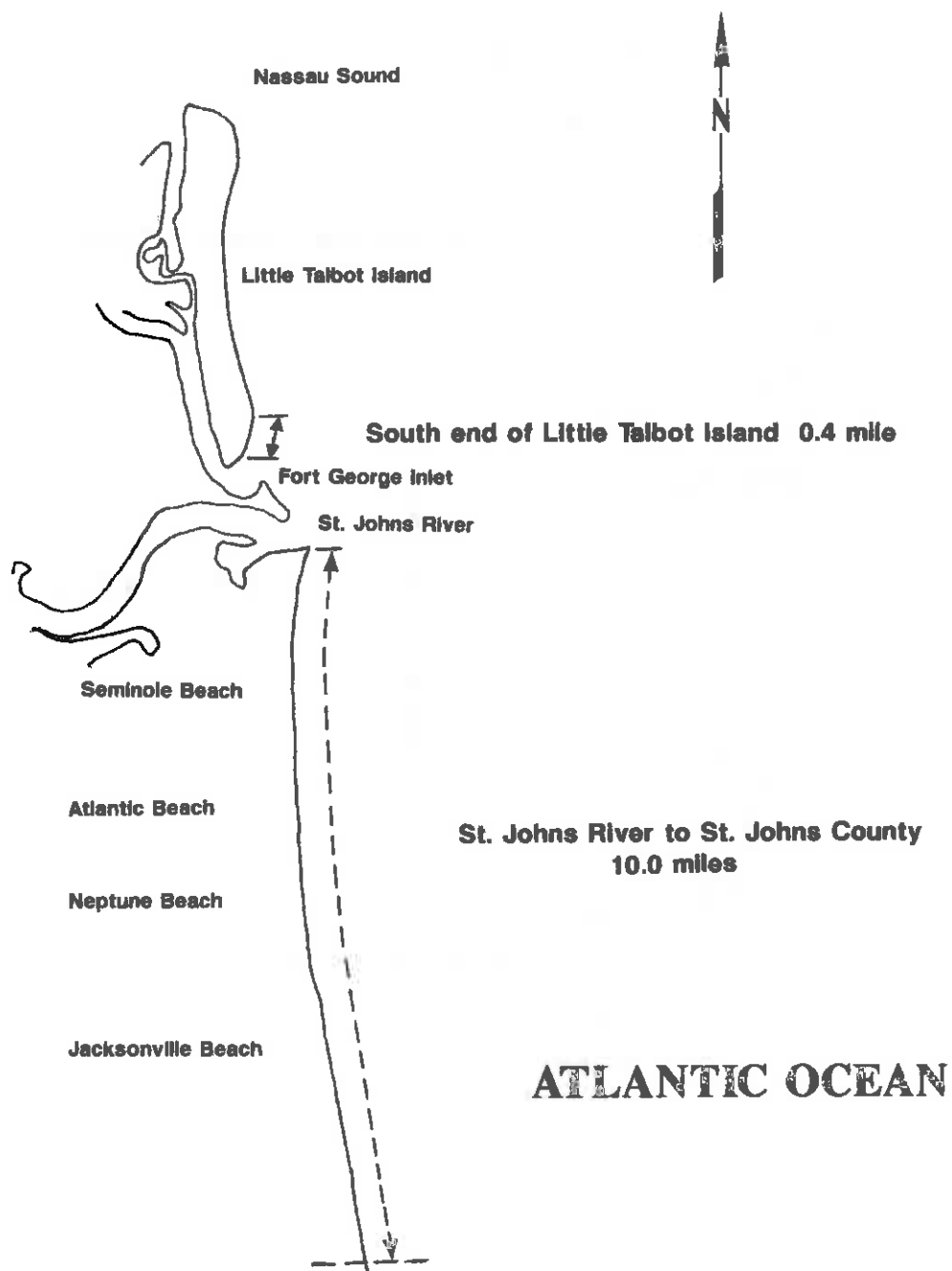


Figure 20. Duval County

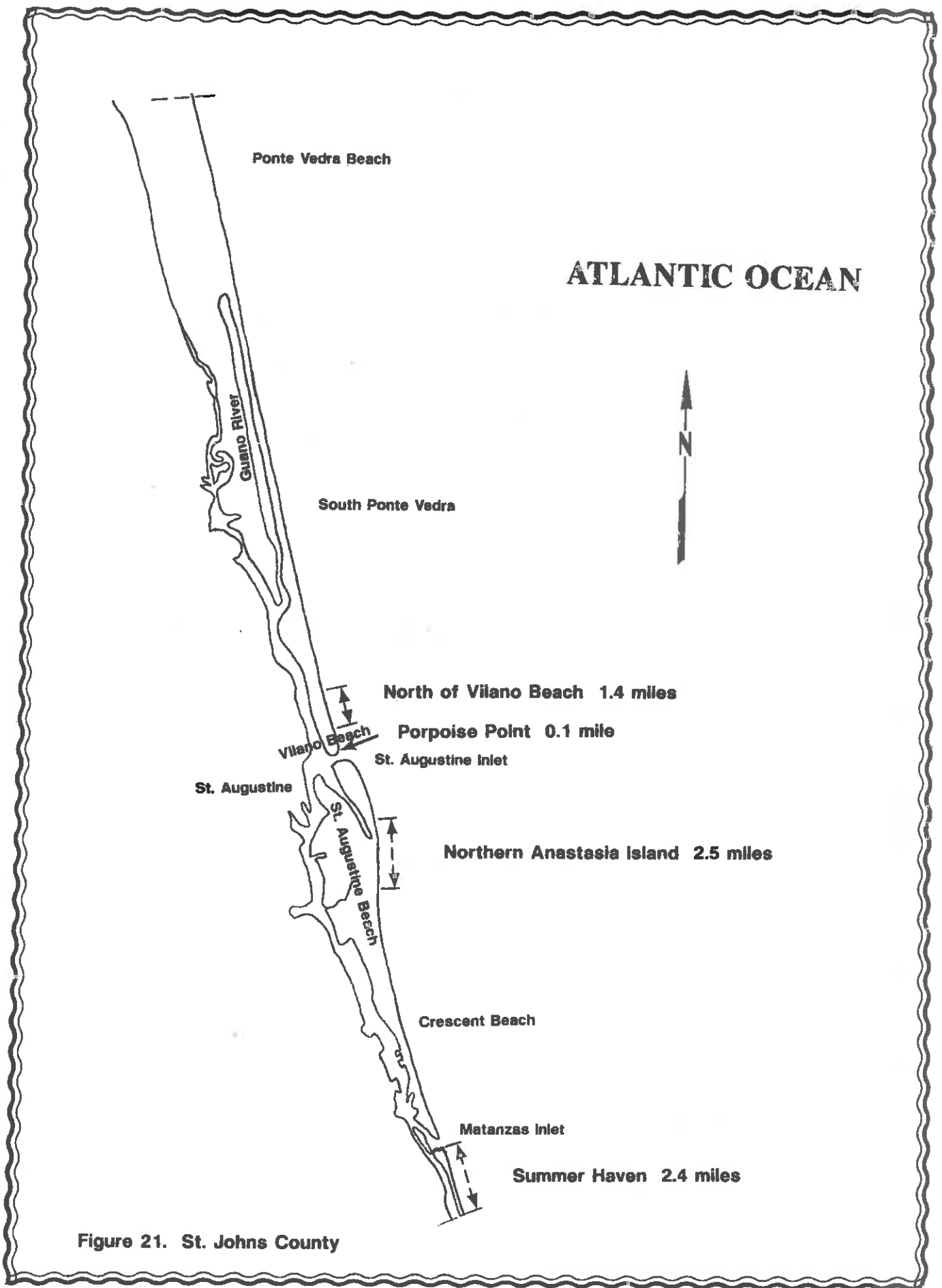


Figure 21. St. Johns County

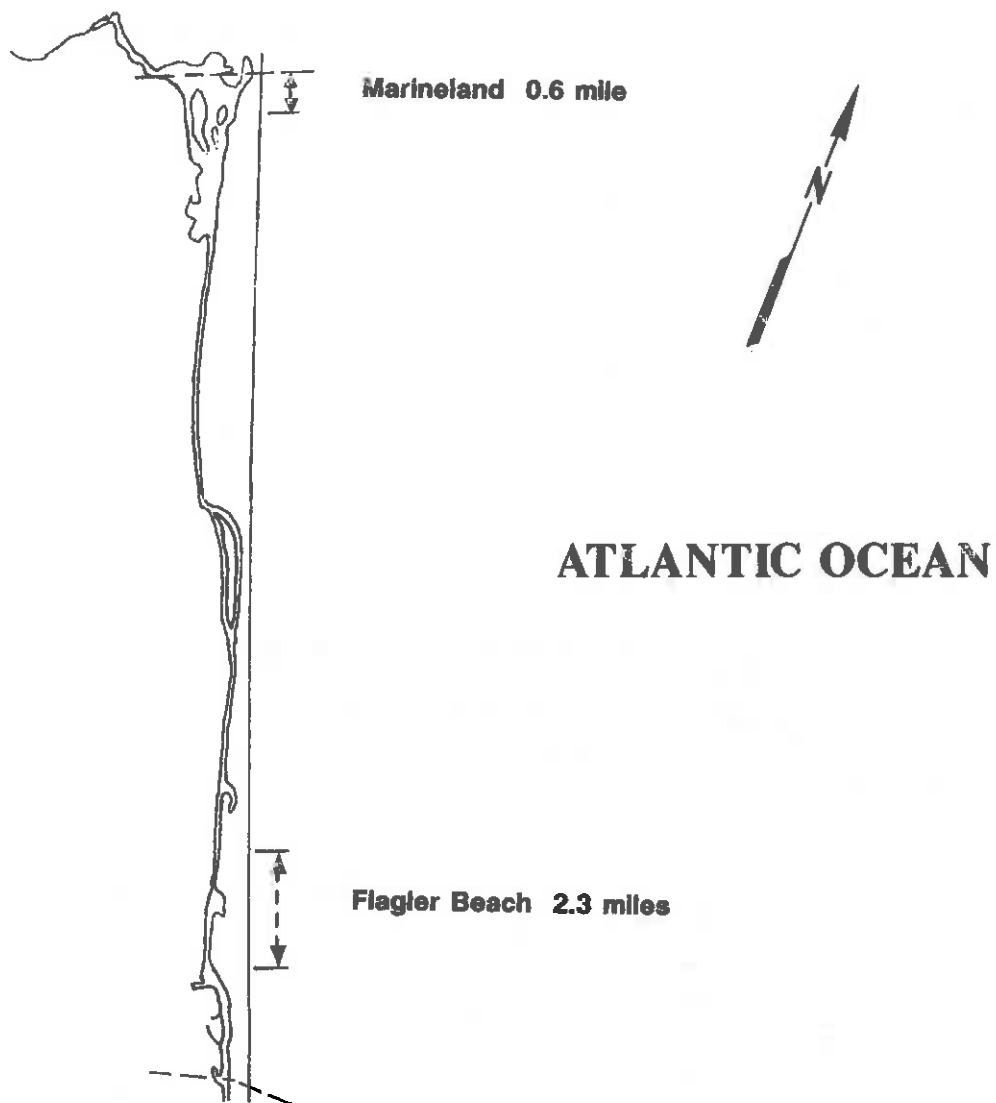
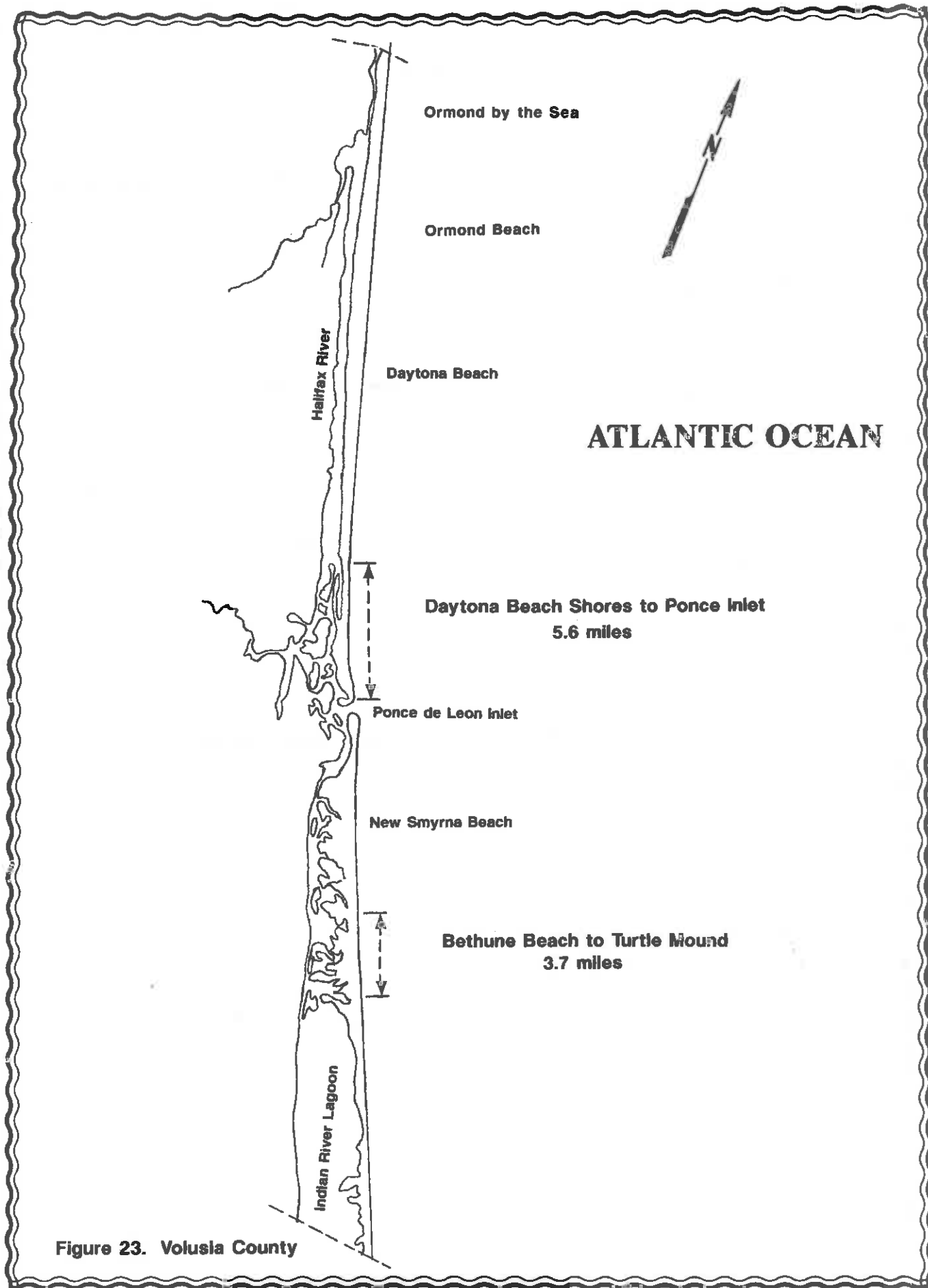


Figure 22. Flagler County



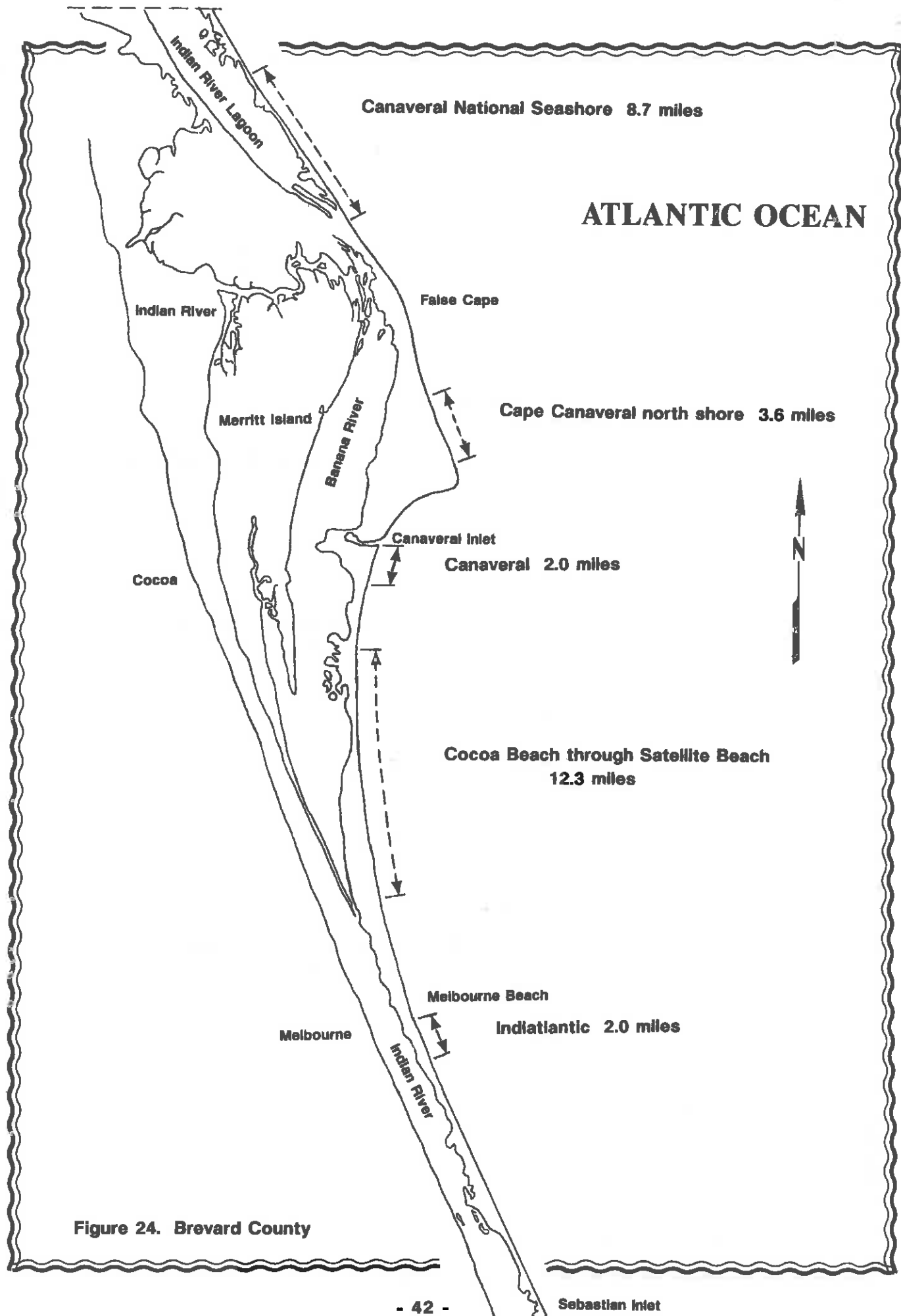


Figure 24. Brevard County

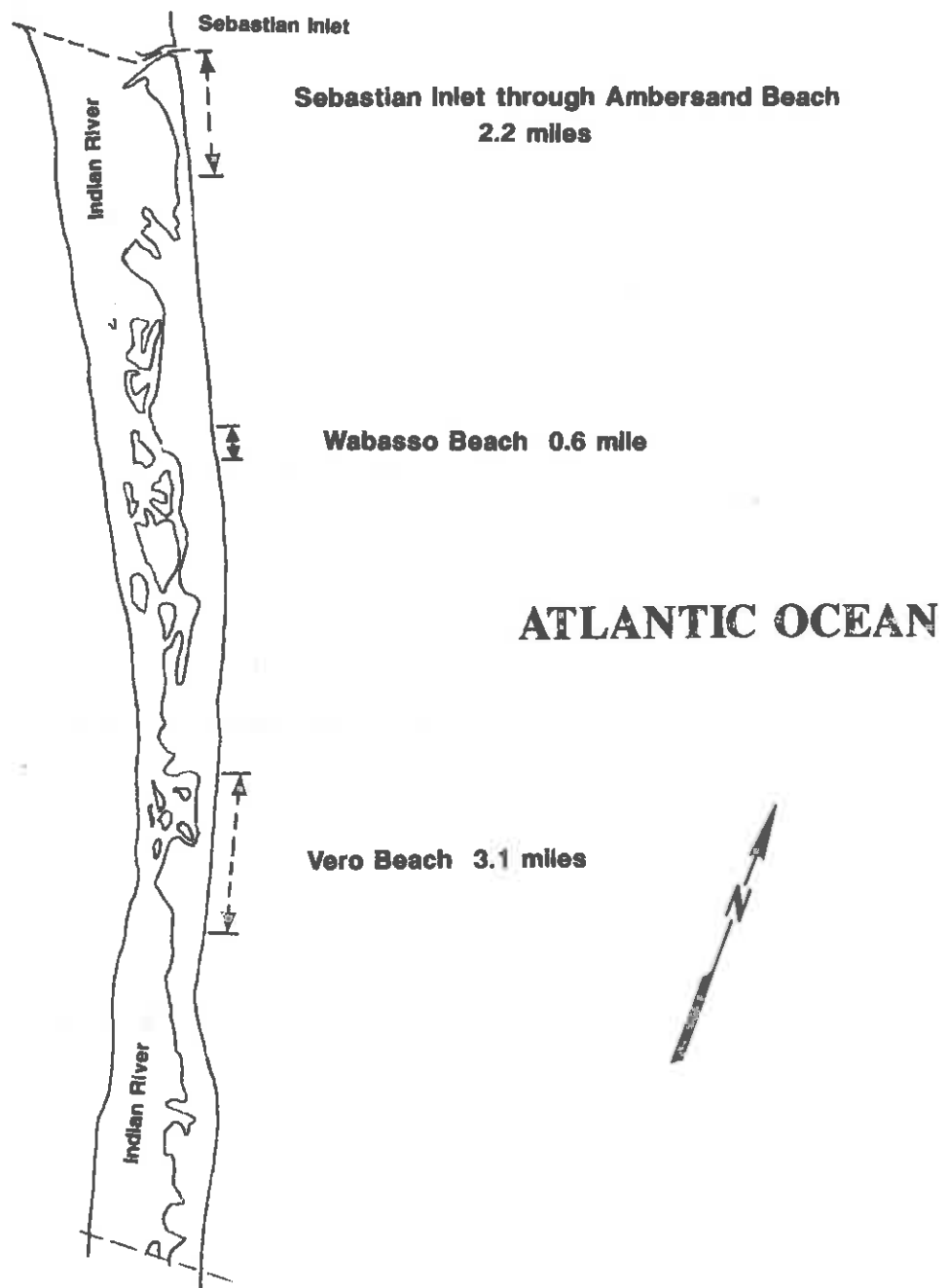


Figure 25. Indian River County

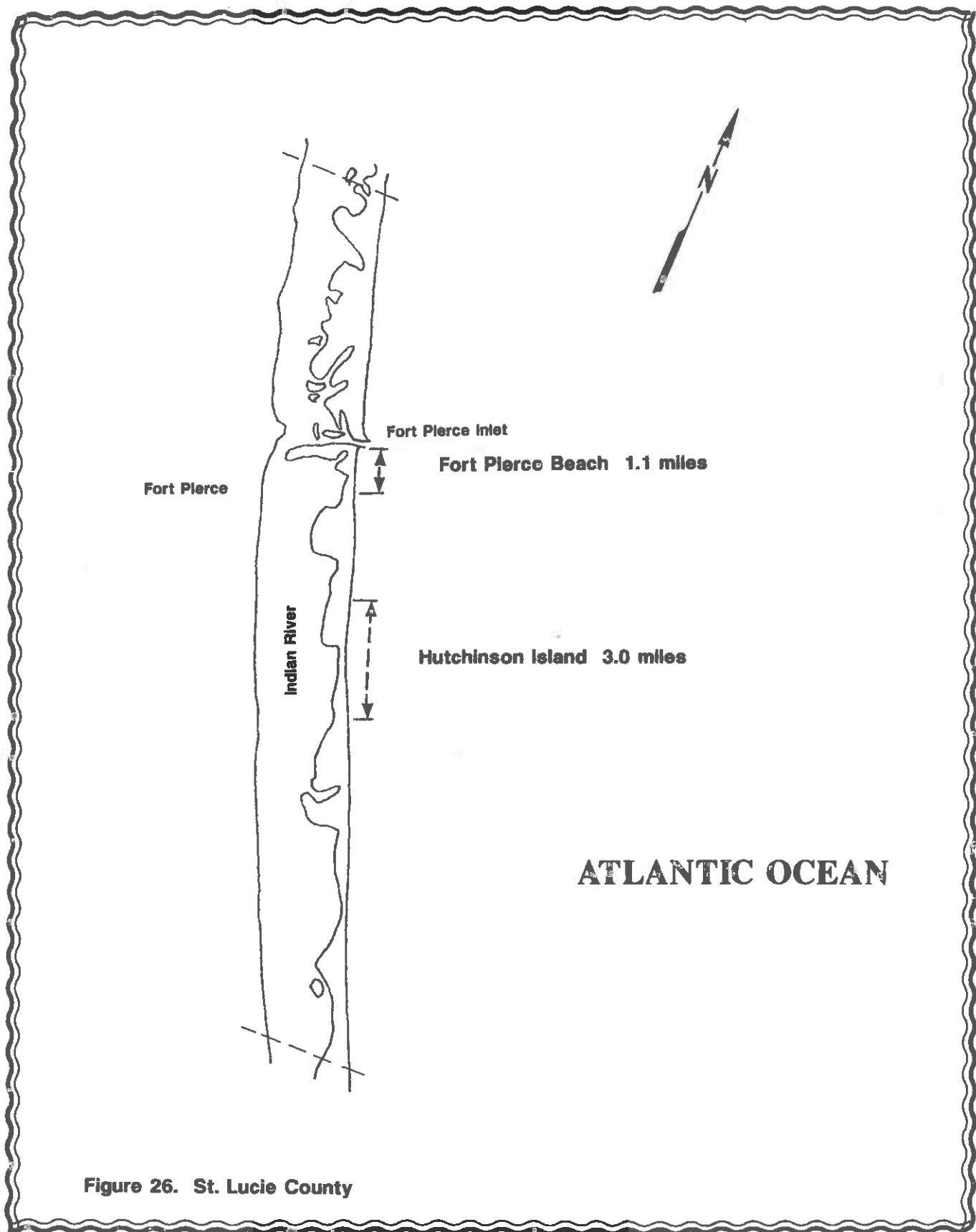


Figure 26. St. Lucie County

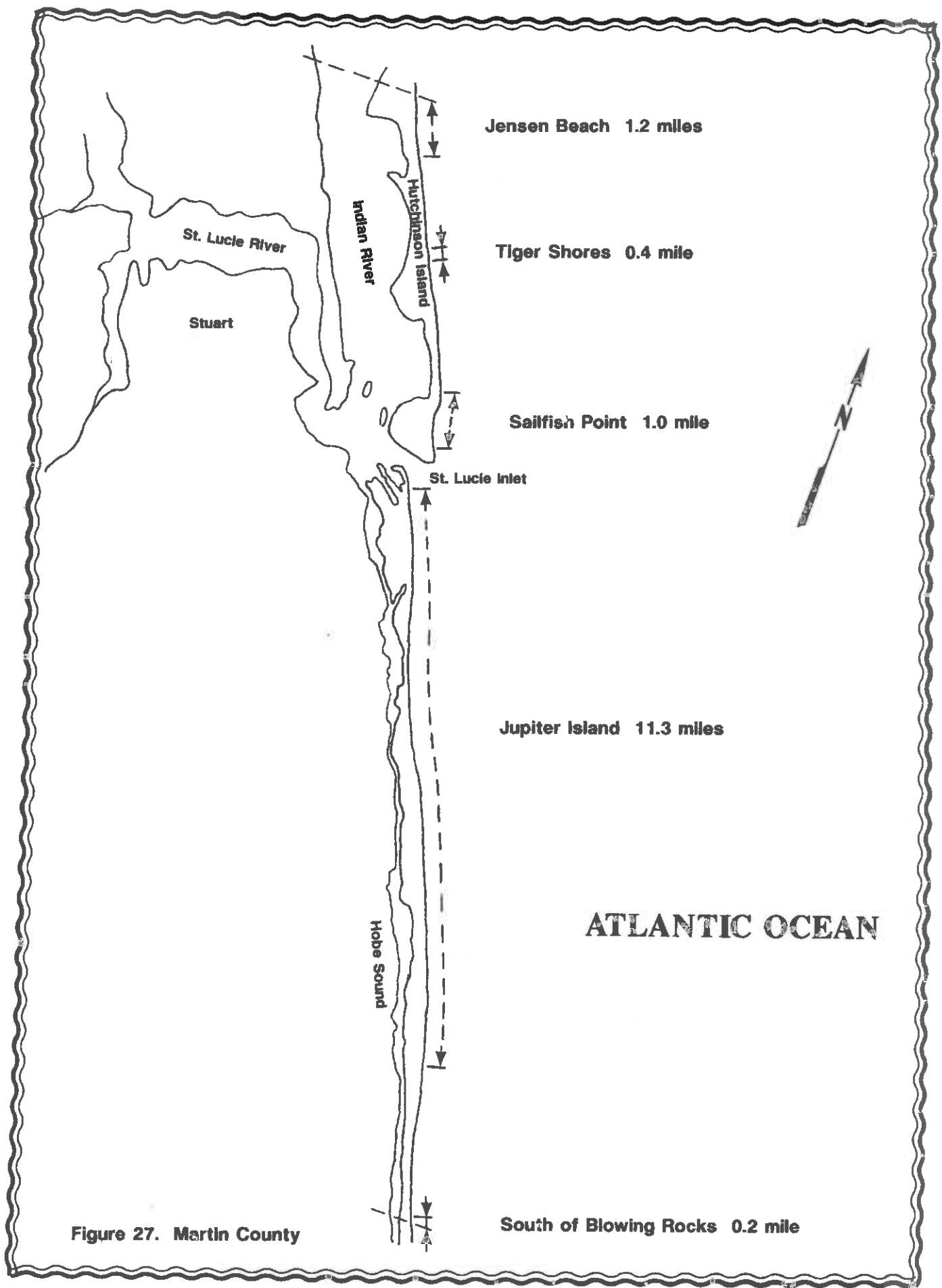


Figure 27. Martin County

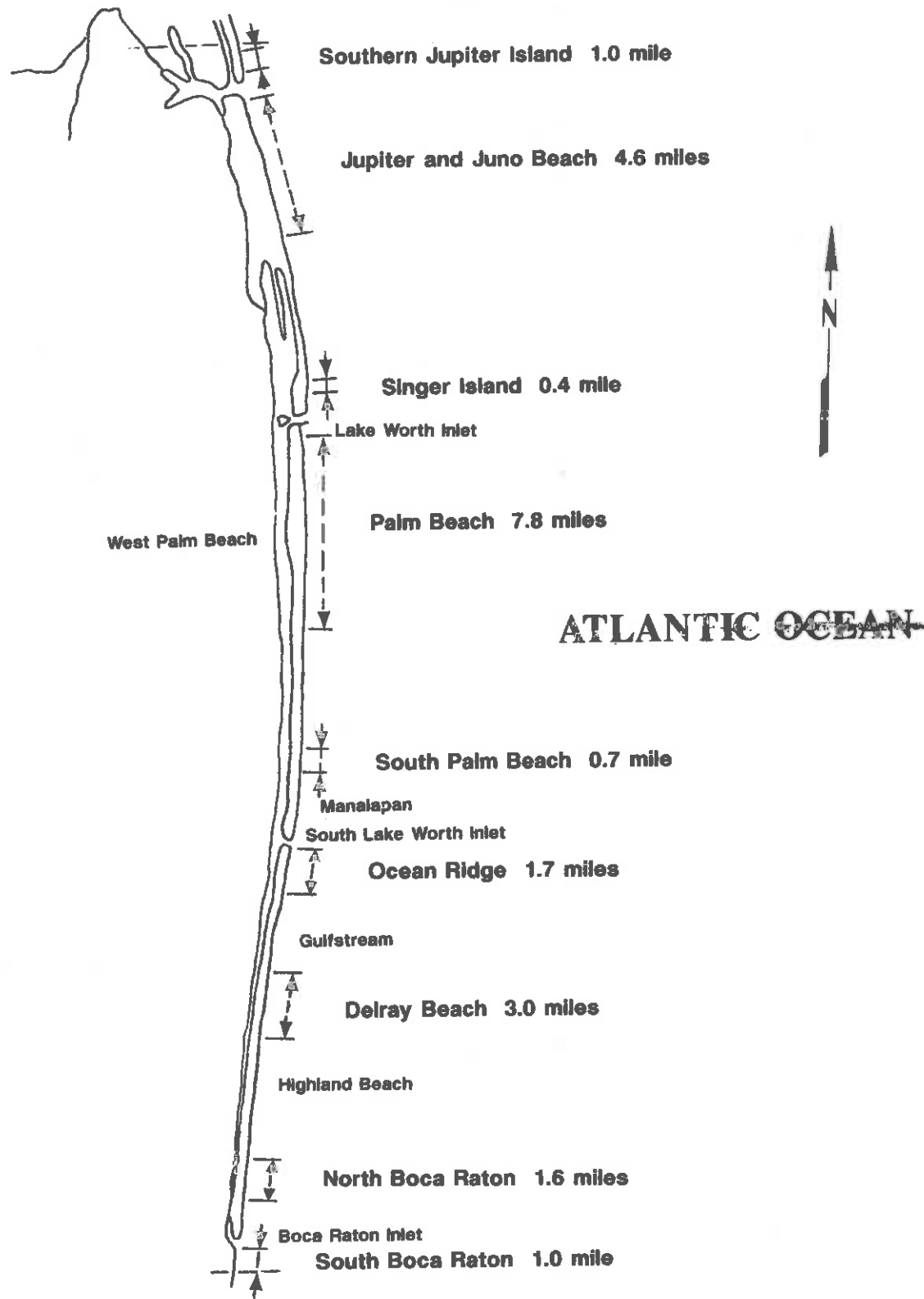


Figure 28. Palm Beach County

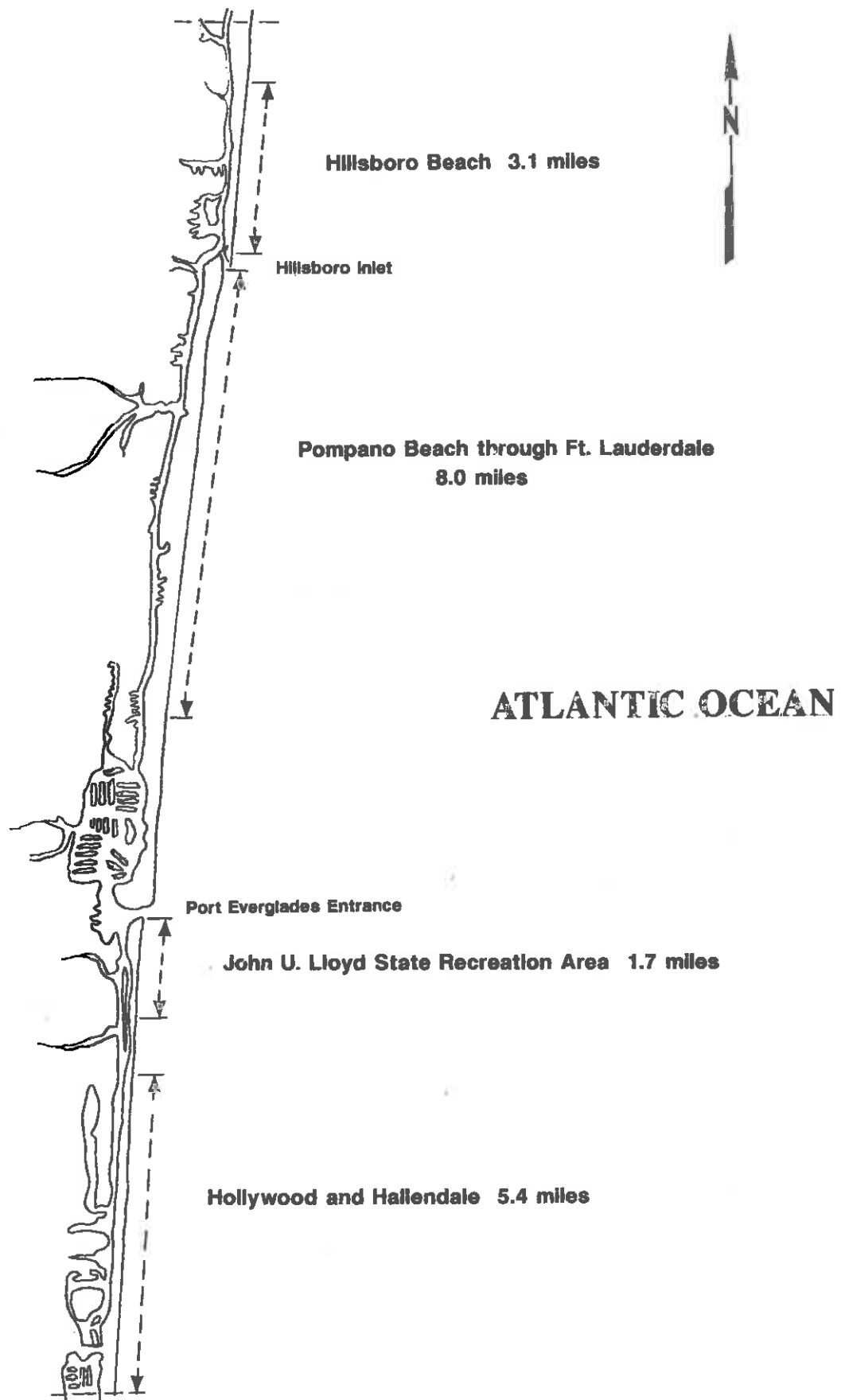


Figure 29. Broward County

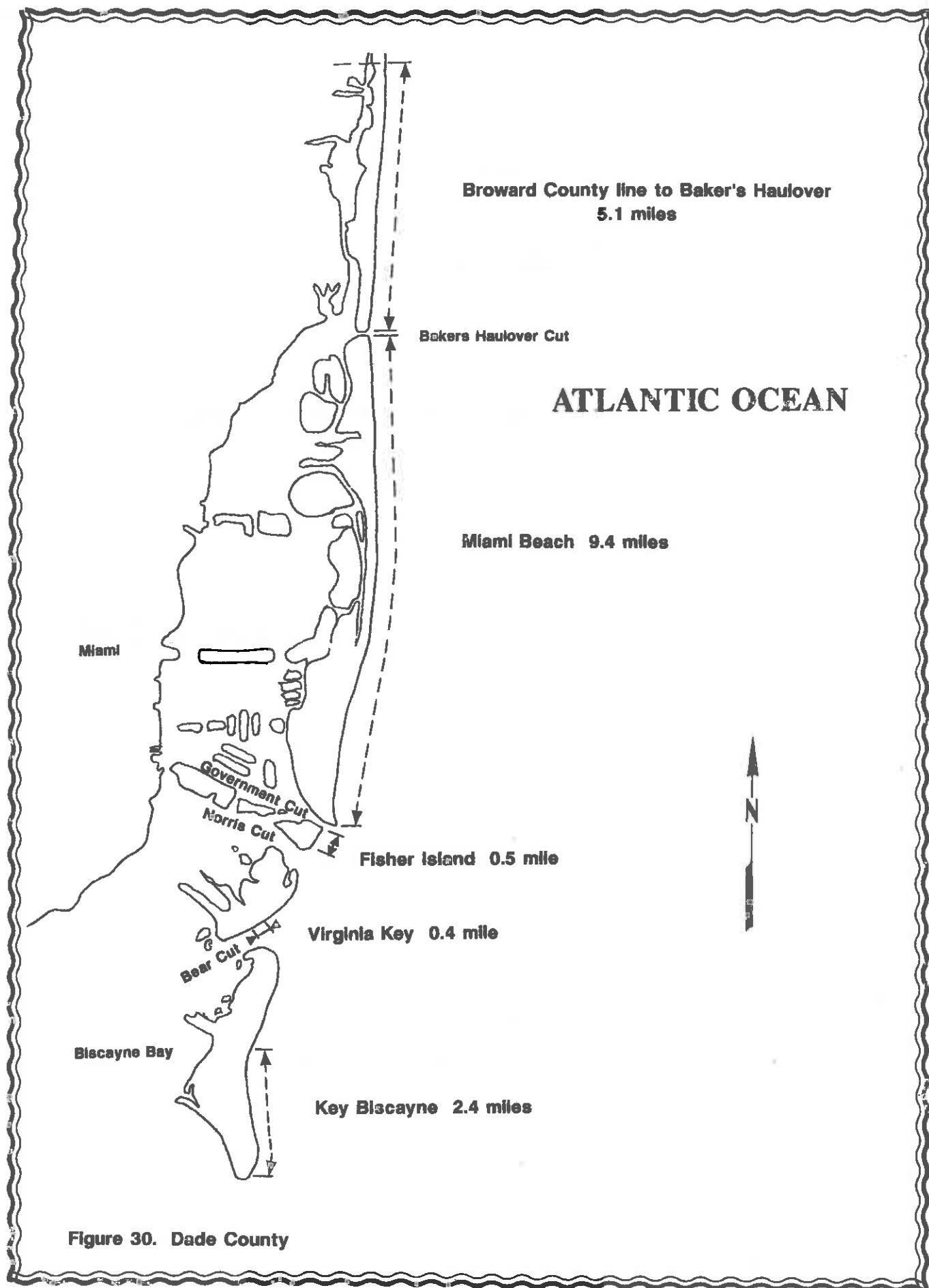
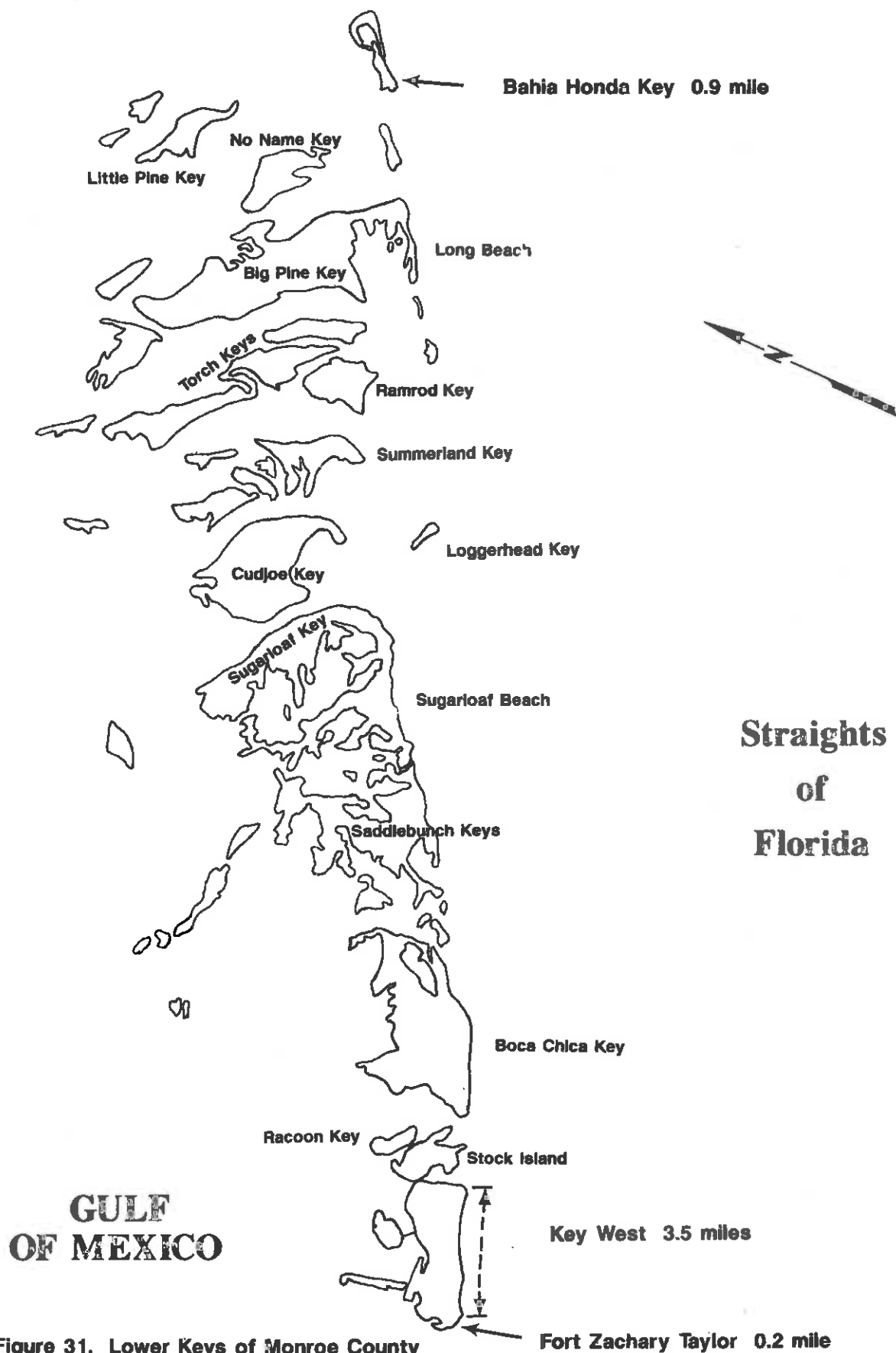


Figure 30. Dade County



THE EROSION PROBLEM AREAS - CATEGORIZED

- I. High erosion rate or recent significant erosion conditions, with or without adjacent development.
- II. Moderate or low erosion rate, but with a narrow beach fronting a highly developed area.
- III. Restored beaches with an active maintenance nourishment program.
- C. Critical erosion areas where substantial development or recreational interests are threatened.
- N/C. Noncritical erosion areas where the erosion processes do not currently threaten any substantial development or recreational interests.

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Nassau, R9-R33	✓		✓	✓	
Nassau, R70-R80	✓				✓
Duval, R22-R25	✓				✓
Duval, V501-R80	✓		✓	✓	
St. Johns, R110-R117	✓			✓	
St. Johns, R122	✓			✓	
St. Johns, R135-R148	✓			✓	
St. Johns, R197-R200	✓			✓	
St. Johns, R200-R209	✓				✓
Flagler, R1-R4		✓		✓	
Flagler, R77-R90		✓		✓	
Volusia, R117-R148	✓		✓	✓	
Volusia, R194-R208	✓			✓	
Volusia, R208-R214	✓				✓
Brevard, V020-V066	✓				✓
Brevard, V117-V136	✓				✓
Brevard, R1-R12	✓		✓	✓	

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Brevard, R29-R53	✓			✓	
Brevard, R53-R56	✓				✓
Brevard, R56-R81	✓			✓	
Brevard, R81-R85	✓				✓
Brevard, R85-R98	✓			✓	
Brevard, R132-R143			✓	✓	
Indian River, R1-R9			✓	✓	
Indian River, R9-R16	✓			✓	
Indian River, R37-R40		✓		✓	
Indian River, R70-R86		✓		✓	
St. Lucie, R34-R40	✓		✓	✓	
St. Lucie, R54-R70	✓				✓
Martin, R1-R8	✓			✓	
Martin, R18-R20		✓		✓	
Martin, R34-R40	✓			✓	
Martin, R45-R76	✓				✓
Martin, R76-R86	✓			✓	
Martin, R86-R110	✓		✓	✓	
Martin, R126-R127	✓			✓	
Palm Beach, R3-R9		✓		✓	
Palm Beach, R12-R15	✓		✓	✓	
Palm Beach, R15-R36		✓		✓	
Palm Beach, R67-R69	✓			✓	
Palm Beach, R80-R116		✓		✓	
Palm Beach, R133-R137		✓		✓	
Palm Beach, R152-R160		✓		✓	
Palm Beach, R176-R190			✓	✓	

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Palm Beach, R204-R212			✓	✓	
Palm Beach, R223-R227			✓	✓	
Broward, R7-R23		✓		✓	
Broward, R25-R53			✓	✓	
Broward, R53-R67		✓		✓	
Broward, R86-R95			✓	✓	
Broward, R100-R128			✓	✓	
Dade, R1-R27			✓	✓	
Dade, R27-R74			✓	✓	
Dade, R75-R77	✓				✓
Dade, R84-R86	✓				✓
Dade, R101-R113			✓	✓	
Monroe, Bahia Honda Key,		✓		✓	
Monroe, Key West		✓		✓	
Monroe, Ft. Taylor	✓			✓	
Escambia, R31-R65	✓				✓
Escambia, R79-R110	✓				✓
Escambia, R110-R136	✓			✓	
Escambia, R205-R214	✓				✓
Okaloosa, V612-V621	✓				✓
Bay, A38-R6	✓				✓
Bay, R6-R14	✓			✓	
Bay, R14-R17	✓				✓
Bay, R17-R20	✓			✓	
Bay, R63-R97	✓			✓	
Bay, R98-V009	✓				✓

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Bay, Unnamed barrier	✓				✓
Bay, V018-V040	✓				✓
Bay, R127-R144	✓			✓	
Gulf, R41-R114	✓				✓
Gulf, R150-R162	✓				✓
Franklin, V17-V34	✓				✓
Franklin, R3-R5	✓				✓
Franklin, R17-R24	✓				✓
Franklin, R34-R51	✓				✓
Franklin, R53-R69	✓				✓
Franklin, R147-R149	✓				✓
Franklin, R157-R170	✓				✓
Franklin, R180-R184	✓				✓
Franklin, R194-R196	✓				✓
Franklin, R210-R216	✓			✓	
Franklin, R220-R225	✓			✓	
Franklin, R225-R229	✓				✓
Wakulla, Mashles Sands	✓				✓
Wakulla, Shell Point		✓		✓	
Levy, Seahorse Key	✓				✓
Pinellas, Anclote Key	✓				✓
Pinellas, R6-R12	✓			✓	
Pinellas, R16-R25	✓				✓
Pinellas, R36-R40		✓		✓	
Pinellas, R47-R49		✓		✓	
Pinellas, R60-R99		✓		✓	

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Pinellas, R99-R108			✓	✓	
Pinellas, R109-R115		✓		✓	
Pinellas, R126-R143			✓	✓	
Pinellas, R144-R163			✓	✓	
Pinellas, R169-R181			✓	✓	
Hillsborough, Egmont Key	✓				✓
Manatee, R2-R5	✓			✓	
Manatee, R12-R19		✓		✓	
Manatee, R21-R36		✓		✓	
Manatee, R47-R54	✓			✓	
Manatee, R62-R67		✓		✓	
Sarasota, R1-R17		✓		✓	
Sarasota, R30-R37			✓	✓	
Sarasota, R44A-R45	✓			✓	
Sarasota, R46-R47		✓		✓	
Sarasota, R64-R77		✓		✓	
Sarasota, R81-R96		✓		✓	
Sarasota, R116-R141	✓			✓	
Sarasota, R168-R177	✓			✓	
Charlotte, R1-R6	✓			✓	
Charlotte, R13-R20	✓			✓	
Charlotte, R27-R29	✓				✓
Charlotte, R46-R49	✓			✓	
Lee, R8-R26		✓		✓	
Lee, R46-R52	✓				✓
Lee, R60-R65	✓				✓

<u>Erosion Problem Area</u>	<u>I</u>	<u>II</u>	<u>III</u>	<u>C</u>	<u>N/C</u>
Lee, R66-R71	✓			✓	
Lee, R74-R81	✓				✓
Lee, R87-R109			✓	✓	
Lee, R109-R112	✓			✓	
Lee, R112-R118	✓				✓
Lee, R181-R200		✓		✓	
Lee, R208-R210	✓			✓	
Lee, R211-R212	✓				✓
Lee, R215-R220	✓				✓
Lee, R225-R226	✓				✓
Lee, R226-R239		✓		✓	
Collier, R22-R29		✓		✓	
Collier, R51-R57		✓		✓	
Collier, A12-R89		✓		✓	
Collier, R90-R103	✓				✓
Collier, R127-R128	✓				✓
Collier, R135-R140		✓		✓	
Collier, R144-R148		✓		✓	
Collier, Kice Island	✓				✓
Collier, Morgan Island	✓				✓

LENGTH OF CRITICALLY ERODING GULF BEACHES

<u>County</u>	<u>Erosion, Miles</u>	<u>Critical, Miles</u>	<u>Noncritical, Miles</u>
Escambia	19.1	4.9	14.2
Santa Rosa	0.0	0.0	0.0
Okaloosa	1.7	0.0	1.7
Walton	0.0	0.0	0.0
Bay	25.9	11.6	14.3
Gulf	16.9	0.0	16.9
Franklin	18.3	2.0	16.3
Wakulla	2.0	1.0	1.0
Jefferson	0.0	0.0	0.0
Taylor	0.0	0.0	0.0
Dixie	0.0	0.0	0.0
Levy	1.2	0.0	1.2
Citrus	0.0	0.0	0.0
Hernando	0.0	0.0	0.0
Pasco	0.0	0.0	0.0
Pinellas	26.5	22.6	3.9
Hillsborough	2.1	0.0	2.1
Manatee	7.0	7.0	0.0
Sarasota	16.9	16.9	0.0
Charlotte	3.2	2.8	0.4
Lee	23.1	16.1	7.0
Collier	17.8	9.7	8.1
Monroe	<u>unknown</u>	<u>---</u>	<u>---</u>
	181.7	94.6	87.1

LENGTH OF CRITICALLY ERODING ATLANTIC BEACHES

<u>County</u>	<u>Erosion, Miles</u>	<u>Critical, Miles</u>	<u>Noncritical, Miles</u>
Nassau	5.9	4.4	1.5
Duval	10.4	10.0	0.4
St. Johns	6.4	4.6	1.8
Flagler	2.9	2.9	0.0
Volusia	9.3	8.2	1.1
Brevard	28.6	15.1	13.5
Indian River	6.6	6.6	0.0
St. Lucie	4.1	1.1	3.0
Martin	14.1	8.6	5.5
Palm Beach	21.8	21.8	0.0
Broward	18.2	18.2	0.0
Dade	17.8	16.9	0.9
Monroe	<u>4.6</u>	<u>4.6</u>	<u>0.0</u>
	150.7	123.0	27.7

SUMMARY

Atlantic	150.7	123.0	27.7
Gulf	<u>181.7</u>	<u>94.6</u>	<u>87.1</u>
	332.4	217.6	114.8

ATLANTIC COASTAL BARRIER INLETS AND THEIR
ADJACENT BEACH AREAS OF AFFECTED EROSION

BARRIER INLET	AFFECTED BEACH AREA
St. Marys River Entrance	northern Amelia Island to south
Nassau Sound	south end of Amelia Island to north
Fort George Inlet	south end of Little Talbot Island to north
St. Johns River Entrance	Jacksonville Beach to south
St. Augustine Inlet	northern Anastasia Island to south
Matanzas Inlet	Summer Haven beach to south
Ponce de Leon Inlet	beach to north
Canaveral Inlet	beach to south
Sebastian Inlet	beach to south
Fort Pierce Inlet	Fort Pierce Beach to south
St. Lucie Inlet	Jupiter Island to south
Jupiter Inlet	beach to south
Lake Worth Inlet	Palm Beach to south
South Lake Worth Inlet	Ocean Ridge beach to south
Boca Raton Inlet	beach to south
Hillsboro Inlet	Pompano Beach to south
Port Everglades Entrance	beach to south
Bakers Haulover Inlet	Bal Harbour beach to south
Government Cut	Fisher Island to south
Norris Cut	Fisher Island to north
Bear Cut	beach along Virginia Key

GULF COASTAL BARRIER INLETS AND THEIR ADJACENT
BEACH AREAS OF AFFECTED EROSION

BARRIER INLET	AFFECTED BEACH AREA
Pensacola Bay Entrance	Santa Rosa Island to east and Perdido Key to west
East Pass, Choctawatchee Bay	Santa Rosa Island to west
Phillips Inlet	beaches to east and west
St. Andrews Inlet	Panama City Beach to west and Shell Island to east
St. Andrews Bay East Entrance	Shell Island to west and beach to east
Eloise Inlet	Crooked Island beach to east and west
Mexico Beach Canal Entrance	Mexico Beach to east
St. Joseph Point Channel	St. Joseph Peninsula to south
Indian Pass	Indian Peninsula to west
West Pass	St. Vincent Island to west and Little St. George Island to east
Bob Sikes Cut	St. George Island to east and west
East Pass	Dog Island to east and east end of St. George Island to west
Ochlockonee Bay Entrance	Mashes Sands to north and Lighthouse Point to south
Hurricane Pass	Honeymoon Island to north and Caladesi Island to south
Willy's Inlet	Caladesi Island to south
Clearwater Pass	Clearwater Pass north shoreline
Johns Pass	Treasure Island to south
Blind Pass	Long Key to south
Pass-A-Grille Inlet	Long Key to north
Bunces Pass	Mullet Key to south
Egmont Channel	Egmont Key to south and Mullet Key to north

Southwest Channel	Egmont Key to north
Passage Key Inlet	north end of Anna Maria Island to south
Longboat Pass	Longboat Key to south
New Pass	Lido Key to south
Big Sarasota Pass	north end of Siesta Key to south
Venice Inlet	Venice to south
Stump Pass	beach to north
Gasparilla Pass	south end of Little Gasparilla Island to north
Boca Grande Pass	Gasparilla Island to north
Captiva Pass	south end of Cayo Costa to north and Captiva Island to south
Redfish Pass	south end of North Captiva Island to north and Captiva Island to south
Blind Pass	north end of Sanibel Island to south
San Carlos Bay Entrance	Estero Island to south
Estero Pass	no problem areas
Big Carlos Pass	south end of Estero Esland to north and north end of Lover's Key to south
New Pass	Big Hickory Island to south
Wiggins Pass	beach to south
Clam Pass	no problem areas
Doctors Pass	Naples to south
Gordon Pass	northern Keewaydin Island to south
Little Marco Pass	Coconut Island to south
Big Marco Pass	Coconut Island to north
Caxambas Pass	south end of Marco Island to north and Kice Island to south
Morgan Pass	Kice Island to north and Morgan Island to south

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