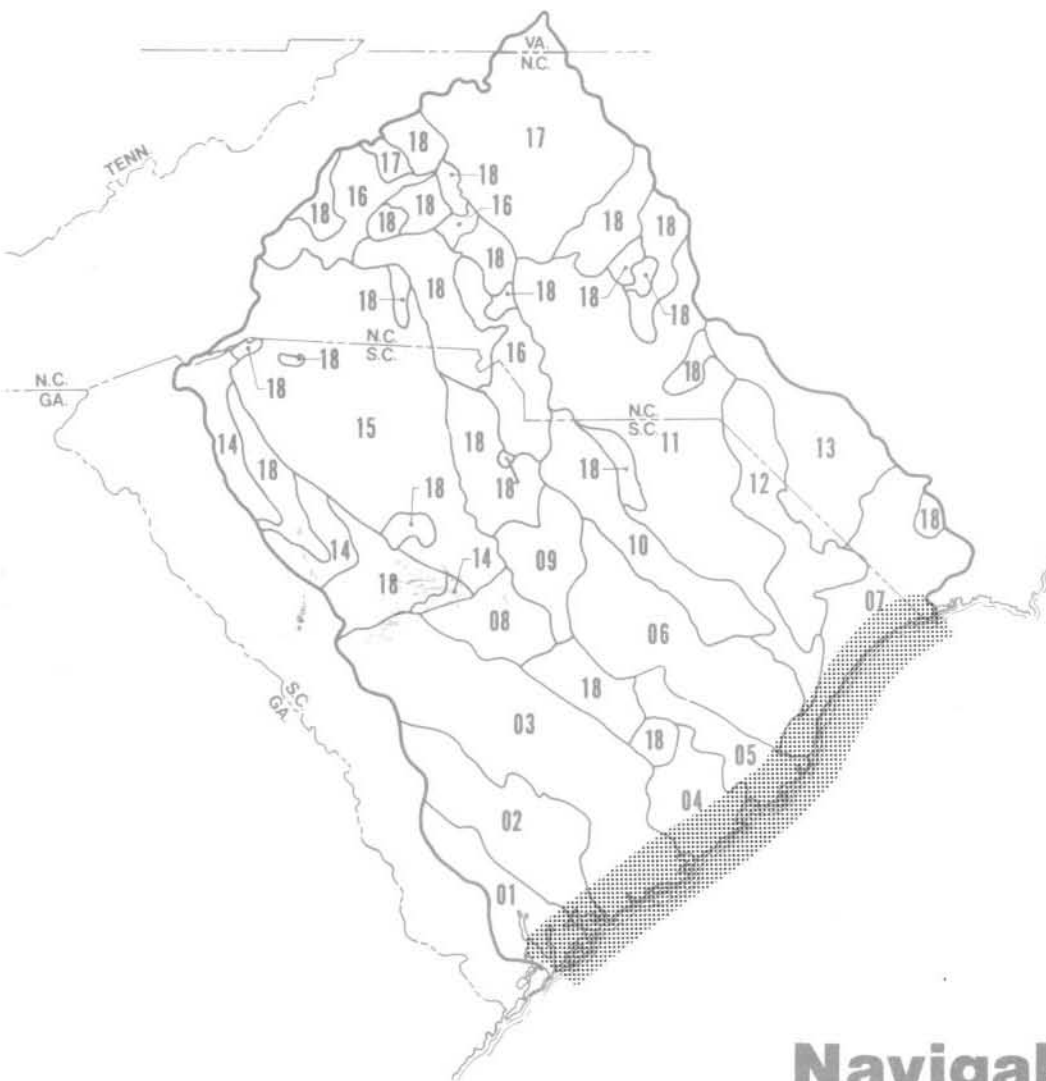




U.S. ARMY CORPS OF ENGINEERS
CHARLESTON DISTRICT
Charleston, South Carolina



COASTAL SUPPLEMENT



**Navigability
Study
1977**



STANLEY CONSULTANTS

Purpose

The purpose of this study is to collect, develop, and evaluate information on waterbodies within the boundaries of the Charleston District, Corps of Engineers, for establishing the classification of "navigable waters of the U. S." and "waters of the U. S." (During the course of this study the term "navigable waters" was changed to "waters of the U. S." Herein references to "navigable waters" are synonymous with "waters of the U. S."). Study objectives include definition of the present head of navigation, the historic head of navigation, the potential head of navigation, and the headwaters of all waterbodies within the district.

The information generated as a part of the study will be utilized by the Charleston District in administration of its programs dealing with water resource project construction permits in "navigable waters of the U. S." (River and Harbor Act of 1899), and the deposition of dredge or fill material in "navigable waters" or their contiguous wetlands (Section 404 of PL 92-500).

Scope

The scope of this project is generally summarized by the following:

1. Outline drainage areas, locate headwater points where mean flow is five cubic feet per second (cfs), summarize lake data (10 to 1,000 acres), establish stream mileage for "navigable waters of the U. S.", and prepare a stream catalog summary for the district.
2. Conduct field surveys of waterbodies to establish mean water levels and obstruction clearances for evaluating the potential head of navigation.
3. Analyze available hydrological data to estimate mean, maximum, and minimum discharge rates at obstructions and other selected locations.
4. Conduct a literature review to identify past, present, and future uses of waterbodies for interstate commerce.

5. Conduct a legal search to identify Federal and state court cases which impact on navigation classifications.
6. Prepare plan and profile drawings, maps of the district showing significant physical features, and a map delineating the recommended navigation classifications.
7. Prepare reports on all major river basins and large lakes (greater than 1,000 acres) including information on physical characteristics, navigation projects, interstate commerce, court decisions, navigation obstructions, and recommended classification of waterbodies for navigation.
8. Prepare a summary report outlining navigation-related information for the entire district as well as the methodology, procedures, and other factors pertinent to the development of each of the river basin reports.

Conduct of this study relies heavily upon available information. Compilation and evaluation of existing data from many sources and development of field survey information are the main contributions to the new water resource data base represented by this study.

Related Reports

Information pertaining to this navigability study for the Charleston District has been compiled into a series of reports; and one supplement which is represented by this document. A complete listing of the reports is presented below to facilitate cross referencing.

<u>Number</u>	<u>Title</u>
--	Summary Report
01	Coosawhatchie River Area
02	Combahee River Area
03	Edisto River Area
04	Cooper River Area
05	Santee River Basin
06	Black River Area
07	Waccamaw River Basin
08	Congaree River Basin
09	Wateree River Basin
10	Lynches River Basin

<u>Number</u>	<u>Title</u>
11	Great Pee Dee River Basin
12	Little Pee Dee River Basin
13	Lumber River Basin
14	Saluda River Basin
15	Broad River Basin
16	Catawba River Basin
17	Yadkin River Basin
18	Lakes - Greater Than 1,000 Acres
--	Coastal Supplement

The eighteen reports covering various drainage areas in the district present information for the specific basins. The Summary Report provides an overview of the entire study of district waterbodies and presents information applicable to all waters in the district. Reference should be made to both the individual drainage area reports as well as the Summary Report to obtain a thorough understanding of the study approach and results.

Coastal Supplement

In addition to the reports listed above, this "Coastal Supplement" is presented in order to provide a cross-reference between streams in certain individual basin reports and the inlets, harbors, bays, and sounds through which those streams enter the ocean.

A catalog is presented subsequently consisting of a numbered sequential listing of all major inlets, harbors, bays, and sounds in the Charleston District that are adjacent to the ocean. A cross-reference is provided for all individual basin reports whose boundaries include some coastline (Reports 01, 02, 03, 04, 05, and 07, as shown on Plate 1). The name of a stream coded in an associated individual basin report is included in parentheses beside the name of the inlet, harbor, sound, or bay through which that stream enters the ocean.

This coastal area catalog was compiled using USGS quadrangle maps, nautical charts, and county maps. The coastal waterbodies and codes are presented graphically on Plates 2 through 5, along with references

to individual basin reports. The coding procedure used in developing this document was similar to that employed for the basin reports. Further information and methodology is presented in the Summary Report.

Navigation Classifications

All of the waterbodies tabulated in the catalog of inlets, harbors, sounds, and bays and all of the waterbodies shown on Plates 1 through 4 are classified "navigable waters of the U. S." since they are tidally influenced. The Summary Report presents the procedures used for classifying waterbodies in the district.

CATALOG OF INLETS, HARBORS, SOUNDS, AND BAYS

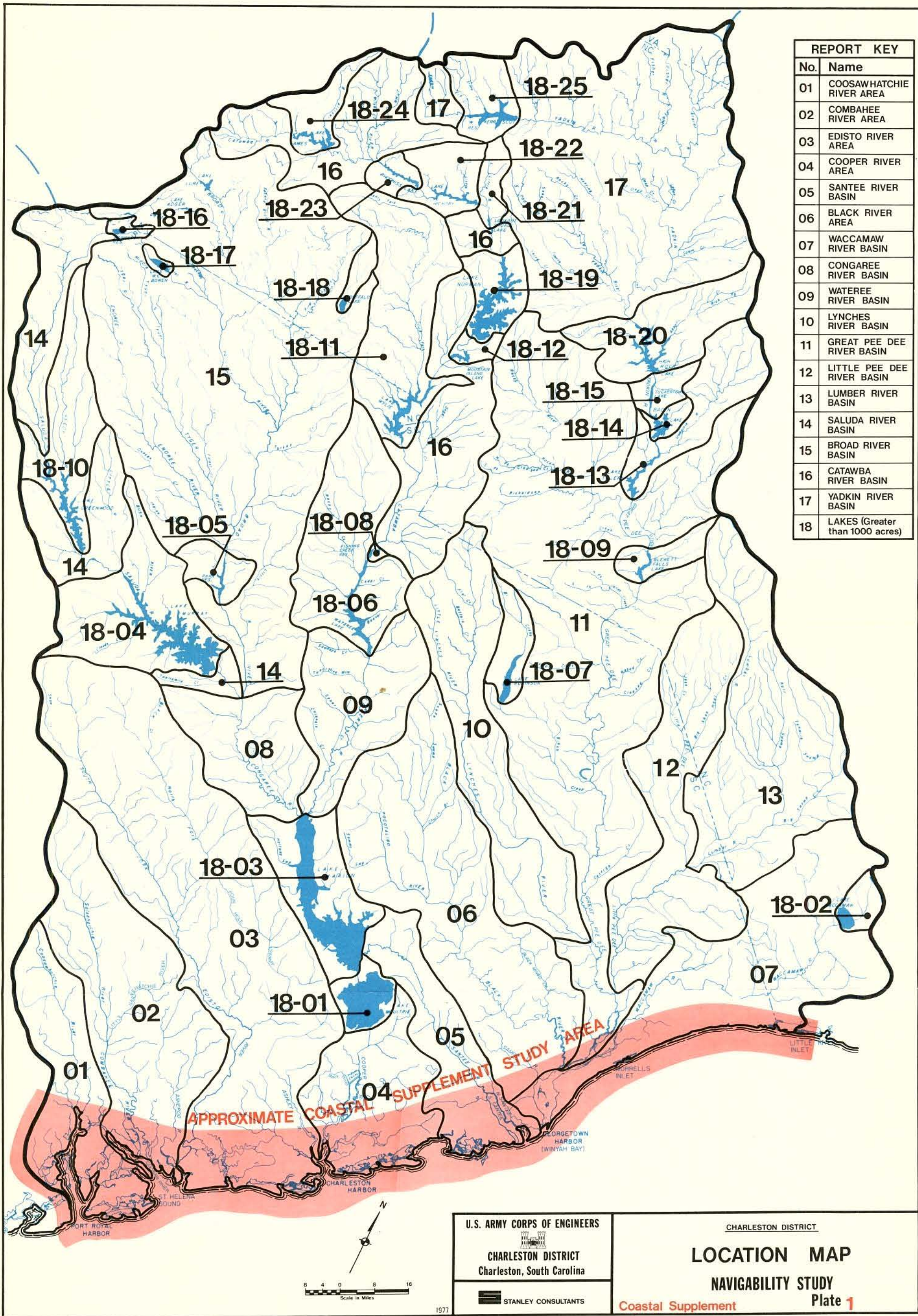
<u>Code Number</u>	<u>Name (And Associated Tributary)</u>	<u>Associated Report Number</u>
19-01	<u>Port Royal Sound</u> (Broad, Beaufort, and Chechese Rivers)	01
19-02	<u>Trenchards Inlet</u> (Harbor and Story Rivers)	01
19-03	<u>Pritchards Inlet</u> (Moon Creek)	01
19-04	<u>Skull Inlet</u> (Skull Creek)	01
19-05	<u>Fripps Inlet</u> (Story River)	01
19-06	<u>St. Helena Sound</u> (Coosaw, Combahee, Bull, Morgan, Ashepoo, and South Edisto Rivers)	02 & 03
19-07	<u>Jeremy Inlet</u> (Scott Creek)	03
19-08	<u>Frampton Inlet</u> (Townsend River)	03
19-09	<u>Captain Sams Inlet</u> (Kiawah River and Captain Sams Creek)	03
19-10	<u>Stono Inlet</u> (Stono, Kiawah, and Folly Rivers)	03
19-11	<u>Lighthouse Inlet</u> (Lighthouse Creek)	03
19-12	<u>Charleston Harbor</u> (Ashley and Cooper Rivers)	03 & 04
19-13	<u>Breach Inlet</u> (Conch, Inlet, Swinton, and Hamlin Creeks)	04

CATALOG OF INLETS, HARBORS, SOUNDS, AND BAYS (continued)

<u>Code Number</u>	<u>Name (And Associated Tributary)</u>	<u>Associated Report Number</u>
19-14	<u>Dewees Inlet</u> (Dewees Creek)	04
19-15	<u>Capers Inlet</u> (Capers Creek)	04
19-16	<u>Price Inlet</u> (Price Creek)	04
19-17	<u>Bull Harbor</u> (Bull and Anderson Creeks)	04
19-18	<u>Bull Bay</u> (Bull and Harbor Rivers)	04 & 05
19-19	<u>Key Inlet</u> (Romain River)	05
19-20	<u>Cape Romain Harbor</u> (Romain River and Horsehead Creek)	05
19-21	<u>North Santee Bay</u> (North Santee River)	05
19-22	<u>Winyah Bay</u> (Sampit, Great Pee Dee, and Waccamaw Rivers)	07
19-23	<u>North Inlet</u> (Jones, Town, and Debidue Creeks)	07
19-24	<u>Pawleys Inlet</u> (Unnamed Tributary)	07
19-25	<u>Midway Inlet</u> (Clubhouse and Pawleys Island Creeks)	07
19-26	<u>Murrells Inlet</u> (Oaks, Woodland, and Main Creeks)	07
19-27	<u>Midway Swash</u> (Unnamed Tributary)	07
19-28	<u>Withers Swash</u> (Unnamed Tributary)	07
19-29	<u>Deephead Swash</u> (Black Creek)	07
19-30	<u>Canepatch Swash</u> (Canepatch Creek)	07
19-31	<u>Singleton Swash</u> (Buck Island Swamp)	07
19-32	<u>White Point Swash</u> (White Point Creek)	07
19-33	<u>Hog Inlet</u> (Williams Creek)	07
19-34	<u>Little River Inlet</u> (Little River)	07

CATALOG OF INLETS, HARBORS, SOUNDS, AND BAYS (continued)

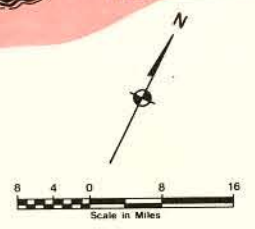
<u>Code Number</u>	<u>Name (And Associated Tributary)</u>	<u>Associated Report Number</u>
19-35	<u>Mad Inlet</u> (Saltboiler Creek)	07
19-36	<u>Tubbs Inlet</u> (Jinks Creek)	07

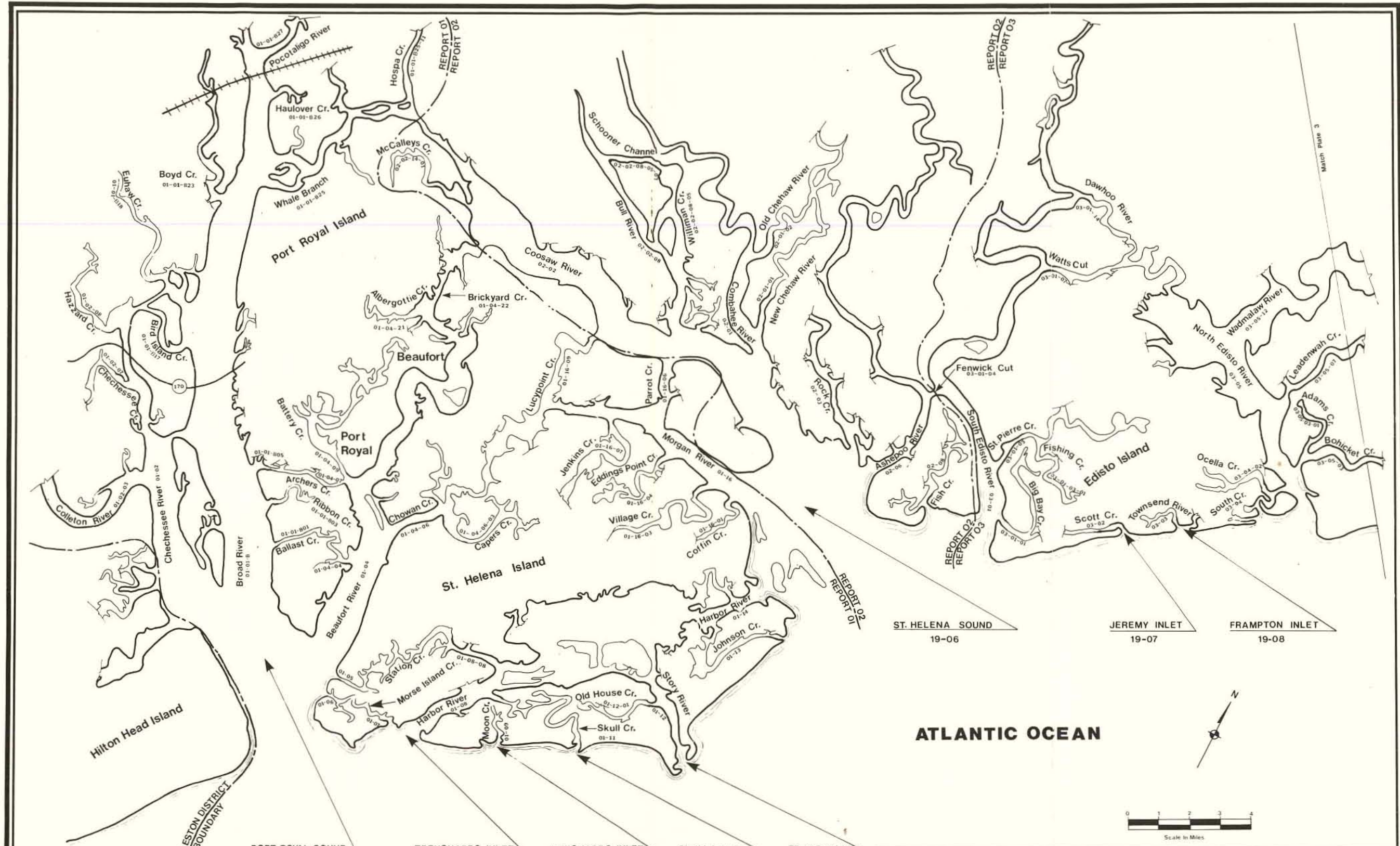


REPORT KEY	
No.	Name
01	COOSAWHATCHIE RIVER AREA
02	COMBAHEE RIVER AREA
03	EDISTO RIVER AREA
04	COOPER RIVER AREA
05	SANTEE RIVER BASIN
06	BLACK RIVER AREA
07	WACCAMAW RIVER BASIN
08	CONGAREE RIVER BASIN
09	WATEREE RIVER BASIN
10	LYNCHES RIVER BASIN
11	GREAT PEE DEE RIVER BASIN
12	LITTLE PEE DEE RIVER BASIN
13	LUMBER RIVER BASIN
14	SALUDA RIVER BASIN
15	BROAD RIVER BASIN
16	CATAWBA RIVER BASIN
17	YADKIN RIVER BASIN
18	LAKES (Greater than 1000 acres)

U.S. ARMY CORPS OF ENGINEERS
 CHARLESTON DISTRICT
 Charleston, South Carolina
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CHARLESTON DISTRICT
LOCATION MAP
 NAVIGABILITY STUDY
 Plate 1
 Coastal Supplement

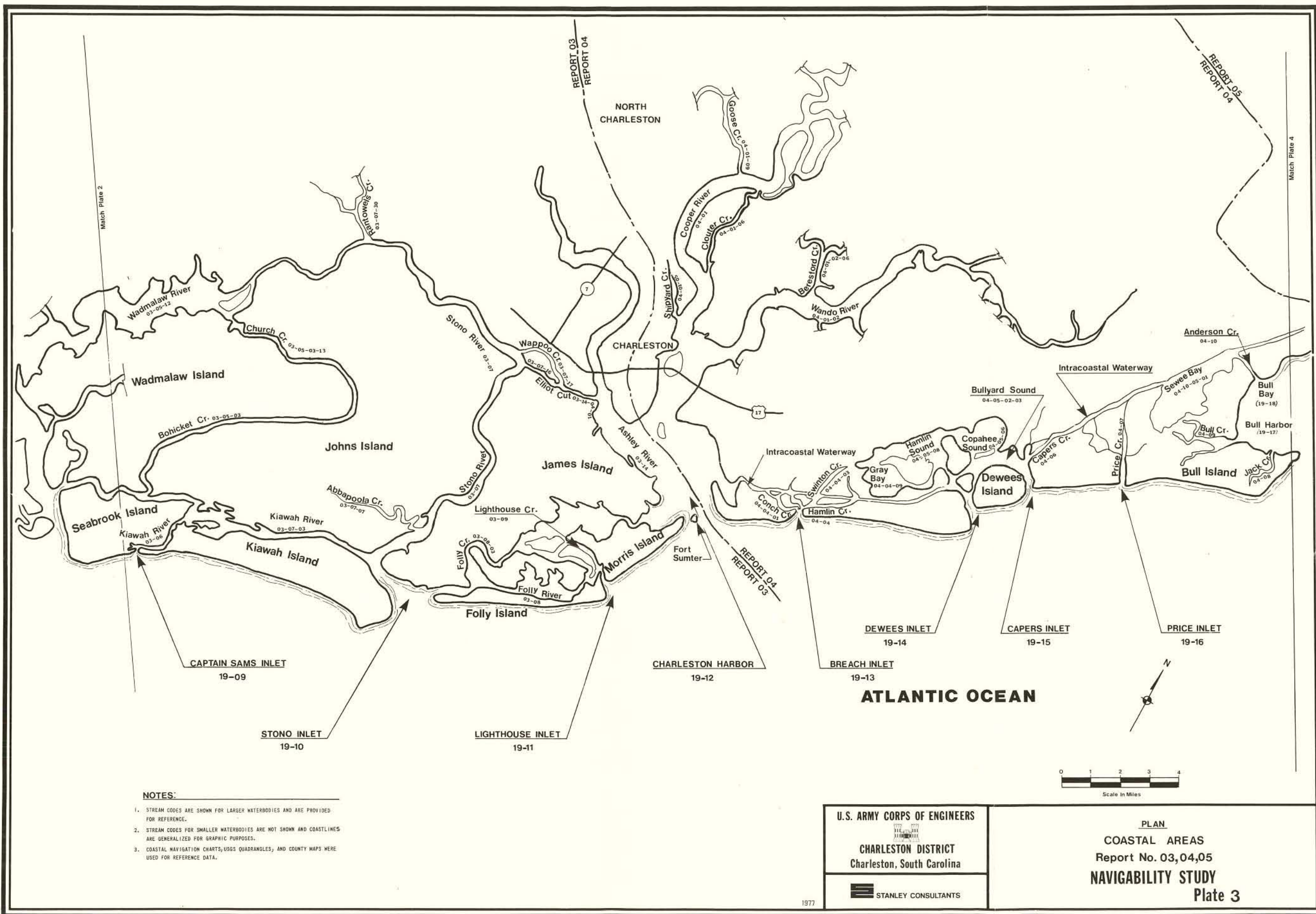




- NOTES:**
1. STREAM CODES ARE SHOWN FOR LARGER WATERBODIES AND ARE PROVIDED FOR REFERENCE.
 2. STREAM CODES FOR SMALLER WATERBODIES ARE NOT SHOWN AND COASTLINES ARE GENERALIZED FOR GRAPHIC PURPOSES.
 3. COASTAL NAVIGATION CHARTS, USGS QUADRANGLES, AND COUNTY MAPS WERE USED FOR REFERENCE DATA.
 4. IN REPORT 01 "B" DESIGNATES ALL TRIBUTARIES TO BROAD RIVER BELOW CONFLUENCE WITH COOSAWHATCHIE RIVER.

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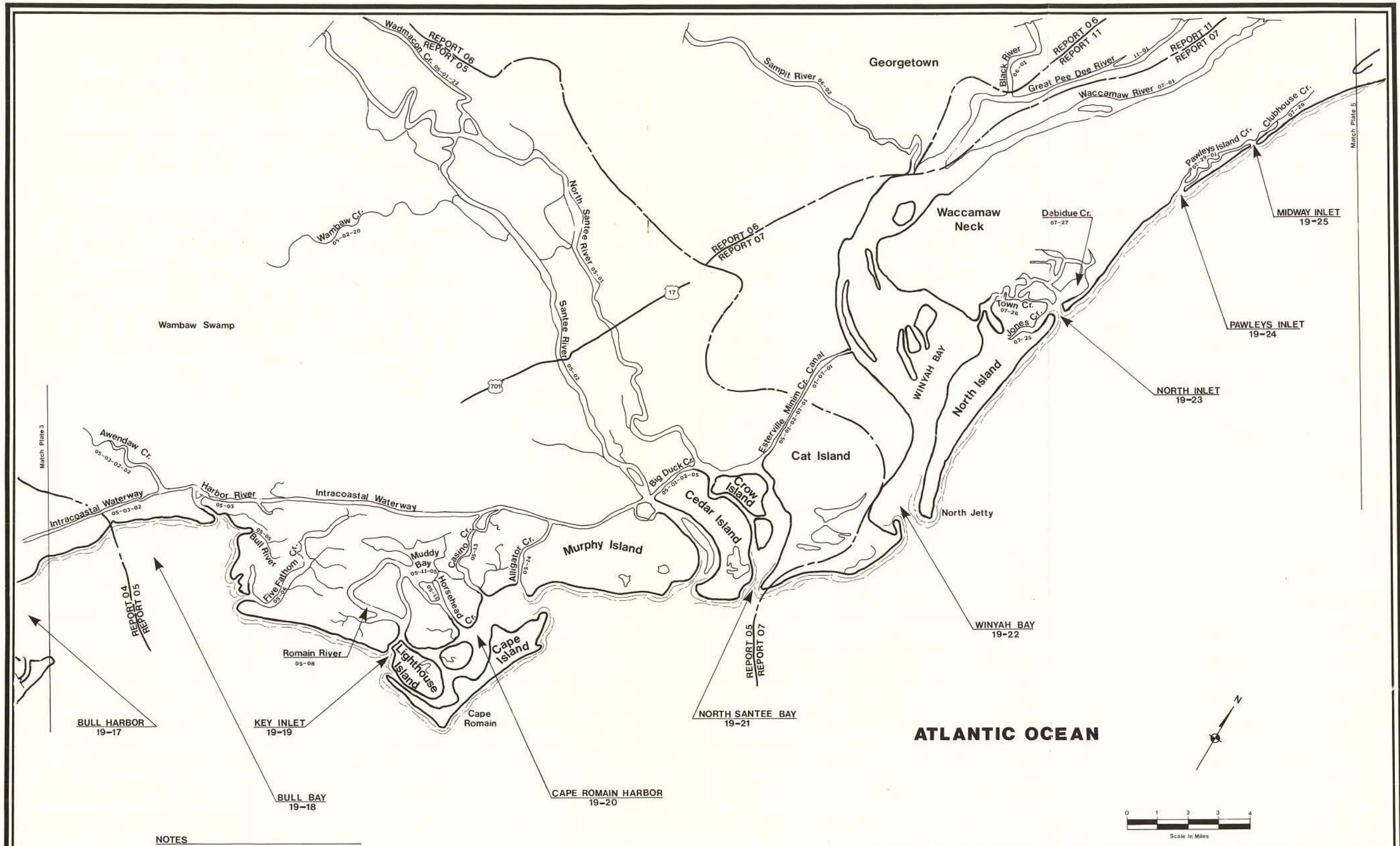
PLAN
 COASTAL AREAS
 Report No. 01,02,03
NAVIGABILITY STUDY
 Plate 2



- NOTES:**
1. STREAM CODES ARE SHOWN FOR LARGER WATERBODIES AND ARE PROVIDED FOR REFERENCE.
 2. STREAM CODES FOR SMALLER WATERBODIES ARE NOT SHOWN AND COASTLINES ARE GENERALIZED FOR GRAPHIC PURPOSES.
 3. COASTAL NAVIGATION CHARTS, USGS QUADRANGLES, AND COUNTY MAPS WERE USED FOR REFERENCE DATA.

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PLAN
 COASTAL AREAS
 Report No. 03,04,05
 NAVIGABILITY STUDY
 Plate 3



NOTES

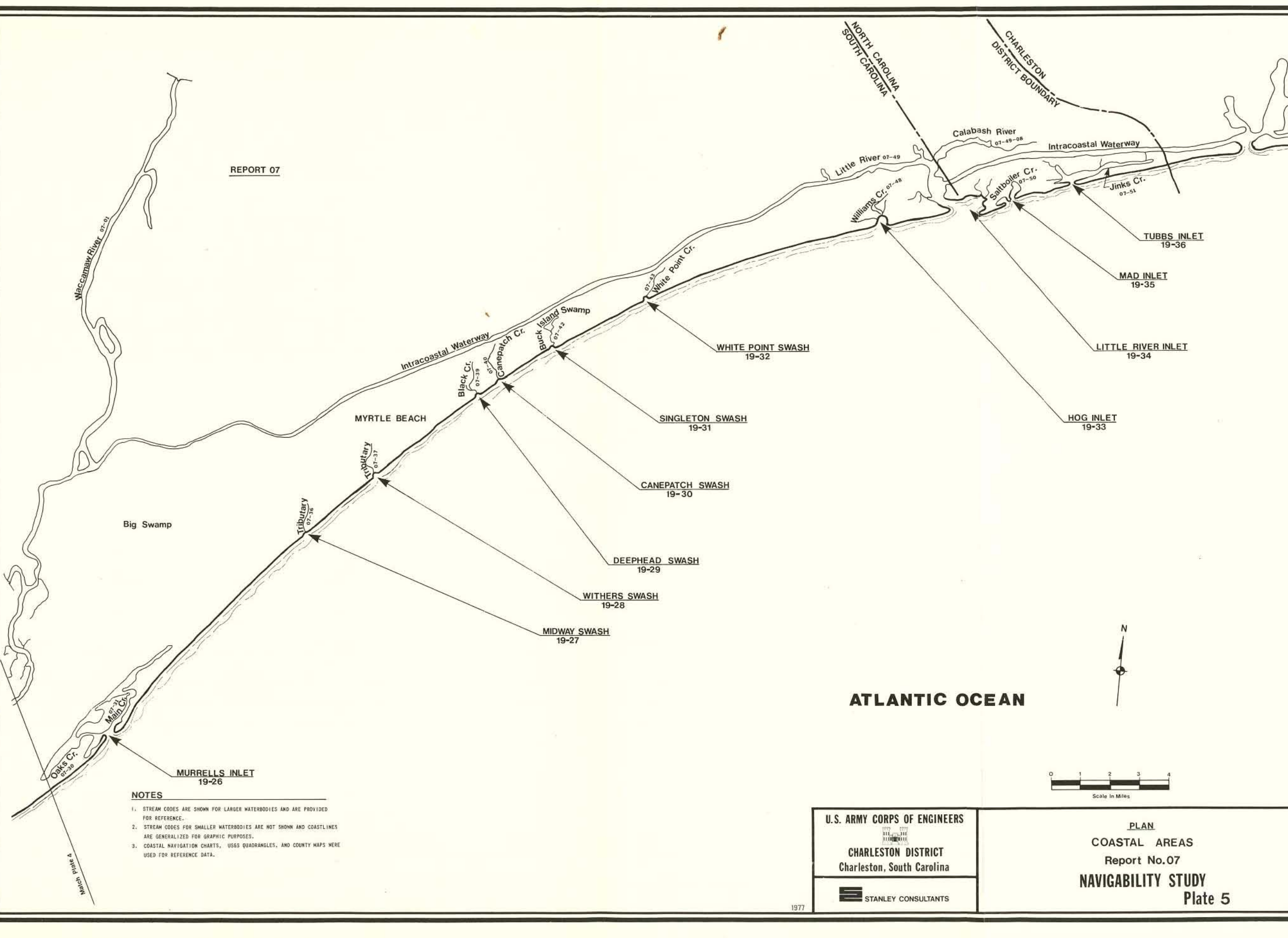
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3. COASTAL NAVIGATION CHARTS, USGS QUADRANGLES, AND COUNTY MAPS WERE USED FOR REFERENCE DATA.

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PLAN
 COASTAL AREAS
 Report No. 04,05,06,07,11
 NAVIGABILITY STUDY
 Plate 4

REPORT 07



Big Swamp

MYRTLE BEACH

ATLANTIC OCEAN



- NOTES**
1. STREAM CODES ARE SHOWN FOR LARGER WATERBODIES AND ARE PROVIDED FOR REFERENCE.
 2. STREAM CODES FOR SMALLER WATERBODIES ARE NOT SHOWN AND COASTLINES ARE GENERALIZED FOR GRAPHIC PURPOSES.
 3. COASTAL NAVIGATION CHARTS, USGS QUADRANGLES, AND COUNTY MAPS WERE USED FOR REFERENCE DATA.

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PLAN
 COASTAL AREAS
 Report No.07
 NAVIGABILITY STUDY
 Plate 5