

TP-01401

TP-01401

NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No. TP-01401	Edition No. 1
Job No. CM-8506	
Map Classification CLASS III FINAL	
Type of Survey SHORELINE	
LOCALITY	
State SOUTH CAROLINA - GEORGIA	
General Locality ST HELENA SOUND TO SAVANNAH RIVER	
Locality CHISOLM ISLANDS	
<div style="border: 1px solid black; padding: 5px; text-align: center;">19 87 TO 19</div>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width:50%;"> SURVEY TP. <u>01401</u> MAP EDITION NO. <u>(I)</u> MAP CLASS <u>III Final</u> JOB CM <u>X78-8506</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>01401</u> MAP EDITION NO. <u>(I)</u> MAP CLASS <u>III Final</u> JOB CM <u>X78-8506</u>		
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PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">LAST PRECEDING MAP EDITION</th> </tr> <tr> <td style="width:50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width:50%;"> JOB <u>PH.</u> MAP CLASS <u> </u> SURVEY DATES: <u> </u> 19 <u> </u> TO 19 <u> </u> </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH.</u> MAP CLASS <u> </u> SURVEY DATES: <u> </u> 19 <u> </u> TO 19 <u> </u>
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OFFICER-IN-CHARGE C. Dale North, Jr., CDR							

I. INSTRUCTIONS DATED					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">1. OFFICE</th> <th style="text-align: center;">2. FIELD</th> </tr> <tr> <td style="vertical-align: top;"> Aerotriangulation None Compilation July 18, 1988 </td> <td style="vertical-align: top;"> Control December 12, 1986 </td> </tr> </table>	1. OFFICE	2. FIELD	Aerotriangulation None Compilation July 18, 1988	Control December 12, 1986	
1. OFFICE	2. FIELD				
Aerotriangulation None Compilation July 18, 1988	Control December 12, 1986				

II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1983 NORTH AMERICAN 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify) _____ OTHER (Specify) _____						
3. MAP PROJECTION Lambert Conformal Projection	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">4. GRID(S)</th> </tr> <tr> <td style="width:50%;">STATE <u>NA</u></td> <td style="width:50%;">ZONE <u>NA</u></td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>	4. GRID(S)		STATE <u>NA</u>	ZONE <u>NA</u>	STATE	ZONE
4. GRID(S)							
STATE <u>NA</u>	ZONE <u>NA</u>						
STATE	ZONE						
5. SCALE 1:20,000							

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY L. Harrod		March 1988
METHOD: Analytic LANDMARKS AND AIDS BY L. Harrod		March 1988
2. CONTROL AND BRIDGE POINTS PLOTTED BY L. Harrod		March 1988
METHOD: Kongsberg Plotter CHECKED BY D. Norman		March 1988
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY P. Evans		July 1988
COMPILATION CHECKED BY F. Mauldin		July 1988
INSTRUMENT: Wild B-8 CONTOURS BY NA		
SCALE: 1:20,000 CHECKED BY NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY P. Evans		July 1988
CHECKED BY F. Mauldin		Aug 1988
METHOD: Smooth Drafted CONTOURS BY NA		
CHECKED BY NA		
SCALE: 1:20,000 HYDRO SUPPORT DATA BY NA		
CHECKED BY NA		
5. OFFICE INSPECTION PRIOR TO FIELD Final Review BY F. Mauldin		Aug 1988
6. APPLICATION OF FIELD EDIT DATA BY NA		
CHECKED BY NA		
7. COMPILATION SECTION REVIEW Class III BY F. Mauldin		Aug 1988
8. FINAL REVIEW Class III BY L.O. Neterer, Jr.		April 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY L.O. Neterer, Jr.		Dec. 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY <i>P. Dempsey</i>		Dec. 1988
11. MAP REGISTERED - COASTAL SURVEY SECTION BY <i>J. Nelson</i>		Jan. 1989

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC10(B) (B=152.74mm) Wild RC10(Z) (Z=153.15mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (R) INFRARED		TIME REFERENCE ZONE Eastern MERIDIAN 75° <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE COORDINATED PHOTOGRAPHY XXXXXXXXXX coordinated					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
87B(C) 3754-3757	2-10-87	1030	1:50,000	4.2 ft above MLLW	
87B(C) 3786-3788	2-10-87	1250	1:50,000	0.7 ft above MLLW	
87Z(R) 0397,0399	2-12-87	1440	1:50,000	0.0 ft above MLLW	
87Z(R) 0485,0487	2-13-87	1440	1:50,000	0.6 ft above MLLW	
87Z(R) 0727-0729	3-3-87	1055	1:50,000	0.3 ft above MHW	
87Z(R) 0755-0756	3-3-87	1112	1:50,000	0.3 ft above MHW	
87Z(R) 0774-0775	3-3-87	1150	1:50,000	0.1 ft above MHW	
				Mean Tide Range 6.9 ft	

REMARKS

- * Compilation/bridging photographs are based on predicted tide data.
** Tide coordinated MHW and MLLW photographs are based on actual tide data are are
2. SOURCE OF MEAN HIGH-WATER LINE: referenced to the tide station at Savannah Bar Pilots Dock.

The Mean High Water Line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods.

The black and white infrared/contact photographs were used to assist in the interpretation of the Mean High Water Line.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The Mean Lower Low Water Line was compiled graphically from the above listed black and white infrared ratio photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
None	TP-01402	TP-01404, TP-01405	TP-01400

REMARKS

TP-01401

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	P. Walbolt	Jan 1987
2. HORIZONTAL CONTROL	RECOVERED BY P. Walbolt ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY P. Walbolt	Jan 1987
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA LOCATED (Field Methods) BY NA IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

paneled

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
87B(C) 3757	CHISOLM, 1932		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 form 75-82A

1 form 76-53

TP-01401
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
COMPILATION COMPLETE	August 88	Class III Manuscript		
FINAL REVIEW	April 89	Final Class III Map	Dec. 1982	Dec. 1989

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Dec. 1987	Landmarks and Aids to Navigation Form

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB CM-8506
ST. HELENA SOUND TO SAVANNAH RIVER
SOUTH CAROLINA - GEORGIA
SHORELINE MAPPING
SCALE 1:20,000

LEGEND:

- 1:50,000 Color (Bringing)
- 1:50,000 Black & white (Infrared) MHW
- 1:50,000 Black & white (Infrared) MLLW
- 1:30,000 Color (Compliment)

Scale

1:50,000
1:30,000

Graphic Scale

TP-01400

Graphic Scale

TP-01401

Graphic Scale

TP-01402

Graphic Scale

TP-01403

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TP-01404

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01401

This 1:20,000 scale map is one of eleven maps in Project CM-8506, which extends from St Helena Sound, South Carolina southwest including Savannah River, Georgia. The project extends from latitude $32^{\circ} 00' 00''$ north to latitude $32^{\circ} 40' 00''$ and longitude $80^{\circ} 23' 00''$ west to longitude $81^{\circ} 00' 00''$.

Field work prior to compilation was accomplished during January 1987. It consisted of premarking horizontal control stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in February 1987 using color film with the "B" camera (focal length 152.74 millimeters). Black and white infrared photography was taken in February and March 1987 using the Z camera (focal length 153.15 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in March 1988.

Compilation was performed at the Atlantic Marine Center in August 1988 by office interpretation of the 1:50,000 color and the infrared Mean High Water and Mean Lower Low Water photography.

Final Review was accomplished at the Atlantic Marine Center in April 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map. The original base manuscript and all pertinent data were forwarded to the Washington Science Center for registration.

AEROTRIANGULATION REPORT
CM-8506
ST. HELENA SOUND TO SAVANNAH RIVER
March, 1988

21. AREA COVERED

The project covers the shoreline, islands, and the adjacent waterways from St. Helena Sound in South Carolina to Savannah River in Georgia. There are eleven 1:20,000 scale sheets; TP-01400 through TP-01410.

22. METHOD

Seven strips of 1:50,000 scale color photographs were bridged by analytic aerotriangulation methods and adjusted to ground using the GIANT program. The strips were measured on the National Ocean Service Analytical Plotter (NOSAP). The horizontal control was pre-marked.

Ratio values were determined for the 1:50,000 scale color photographs and for the 1:50,000 scale black and white infrared photographs.

Work manuscripts and manuscripts for the final map were plotted on the Kongsberg plotter. The sheets were plotted in the South Carolina state plane coordinate system. This is a Lambert conformal conic projection. All positions are on the NAD 1983. In addition, 10 mm ticks representing NAD 27 projection intersections were plotted at twice the interval of the NAD 83 projections.

23. ADEQUACY OF CONTROL

The project meets the National Ocean Service requirements for map manuscripts. Tie points were used to ensure an adequate fit between strips. A listing of the fit to control is attached.

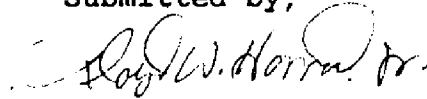
24. SUPPLEMENTAL DATA

U.S.G.S. topographic quadrangles were used to obtain vertical control for bridging. NOS nautical charts were used to locate fixed aids to navigation and landmarks.

25. PHOTOGRAPHY

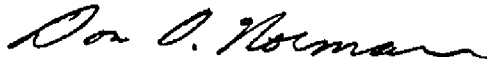
The photography was adequate.

Submitted by,



Lloyd W. Harrod, Jr.

Approved and Forwarded



Don O. Norman
Chief, Aerotriangulation Unit

COMPILATION REPORT

TP-01401

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument and graphic compilation were used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs and the tide coordinated mean high water infrared contact photographs.

Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line. Control for all graphic delineation was provided by instrument compilation of coastal detail.

All photographs used to compile this map are listed on NOAA form 76-36B. The northwest corner of this map, between 32° 35.0' and 32° 37.5' latitude and 80° 39.0' and 80° 42.0' longitude, was delineated to the limit of available photographic coverage. The photography was adequate.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 1988.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the 1:50,000 scale bridging/compilation color photographs and was complimented by the tide coordinated mean high water infrared contact photographs.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs.

The tide coordinated mean lower low water infrared ratio photographs were used to compile the approximate mean lower low water line as described in item #31.

37. LANDMARKS AND AIDS:

Within the limits of this map, seven charted aids to navigation and no charted landmarks were located/verified photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey Quadrangle:

Green Pond, South Carolina; 4849 II, V746, edition 6; scale 1:50,000

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

11480; 27th edition; dated July 5, 1986; scale 1:449,659
11513; 18th edition; dated December 6, 1986; scale 1:80,000
11518; 23rd edition; dated June 27, 1987; scale 1:40,000
11519; 8th edition; dated July 12, 1986; scale 1:40,000

TP-01401

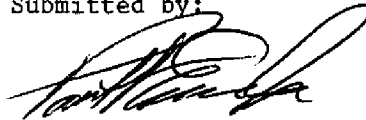
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:



Paul L. Evans, Jr.
Cartographic Technician
July 26, 1988

Approved:



James L. Byrd, Jr.
Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

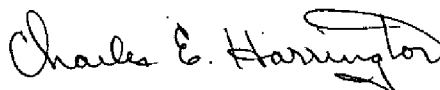
CM-8506 (St. Helena Sound to Savannah River, SC-GA)

TP-01401

Ballast Island
Barnwell Creek
Briars
Briars Creek
Brickyard Creek
Brickyard Point
Browns Island
Bull River
Bull Spit
Buzzard Island
Chisolm
Chisolm Islands
Combahee River
Coosaw River
Dale
Fields Point
Fish Creek
Gunboat Island
Halfmoon Island

Horse Island
Jack Island
Keans Neck
Ladies Island
McCalleys Creek
Mulligan Creek
Oak Island
Old Combahee Island
Paukie Island
Port Royal Island
Schooner Channel
South Wimbee Creek
Stewarts Point
Summerhouse Point
True Blue Creek
Whale Branch
Willman Creek
Willman Islands
Wimbee Creek

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

REVIEW REPORT
SHORELINE

TP-01401

61. GENERAL STATEMENT

See Summary included with this Descriptive Report.

No enlargement prints were supplied of the
Mean High Water infrared photographs.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following USGS
quadrangle:

GREEN POND, SOUTH CAROLINA, 484911, V746, 6th edition

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within
the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:

11480, 28th edition, dated June 4, 1988, scale
1:449,659

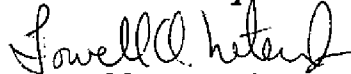
11513, 18th edition, dated December 6, 1986, scale
1:80,000

11519, 8th edition, dated July 12, 1986, scale
1:40,000.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:



Lowell O. Neterer, Jr.

Final Reviewer

April 1989

Approved for Forwarding:



Billy H. Barnes

Chief, Quality Assurance Group, AMC

Approved:

N/A

Chief, Photogrammetric
Production Section



Chief, Photogrammetry Branch

CARTOGRAPHIC FEATURES OF CHARTING INTEREST

Page 1 of 1

PROJECT: CM-850⁶₂

MAP NUMBER (Scale); Locality: TP-01401; 1:20,000; St. Helena
Sound to Savannah River

GEODETIC DATUM: N.A. 1983

CHARTS AFFECTED: 11480, 11513, 11518, 11519

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION -'-"		NCD Q.C.	DATE OF LOCATION
		LATITUDE	LONGITUDE		
<u>COOSAW RIVER</u>					
LIGHT 191	200	32 30 00.09	80 36 25.85	7	2-10-87
LIGHT 194	200	32 30 25.48	80 36 41.48	7	2-10-87
LIGHT 200	200	32 20 21.29	80 38 20.34	7	2-10-87
LIGHT 203	200	32 30 11.78	80 39 08.38	7	2-10-87
<u>BRICKYARD CREEK</u>					
RANGE A FRONT LIGHT	208	32 30 14.41	80 40 34.17	7	2-10-87
RANGE A REAR LIGHT	209	32 30 13.82	80 40 47.00	7	2-10-87
LIGHT 210	200	32 30 00.00	80 40 56.12	7	2-10-87

Listing approved by:

Lowell A. Hester

FINAL REVIEWER

May 1988
DATE

