

ORIGINAL

TP-00678

TP-00678

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

### DESCRIPTIVE REPORT

Type of Survey ..... Shoreline

Job No. CM-7218 ..... Map No. TP-00678

Classification No. .... Edition No. 1

Field Edited Map

### LOCALITY

State .. North Carolina .....

General Locality ..... Lower Cape Fear River

Locality ..... Snows Marsh

1974 TO 1975

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.  <b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00678</u>  MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final(F.E.)</u> JOB PH. <u>CM-7218</u>
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Divison, Norfolk, Va.  OFFICER-IN-CHARGE  Jeffrey G. Carlen, Cdr.		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
1. OFFICE		2. FIELD	
Part I  Compilation Feb. 27, 1973  Part II Aerotriangulation Mar. 7, 1974 Compilation July 15, 1974		Oct. 5, 1973	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION  Polyconic		4. GRID(S) STATE North Carolina ZONE	
5. SCALE  1:10,000		STATE ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY M. McGinley			None
METHOD: Analytical LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY R. Robertson			July 1974
METHOD: CHECKED BY R. Robertson			July 1974
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R. R. White			Aug 1974
COMPILATION CHECKED BY L. O. Neterer			Aug. 1974
INSTRUMENT: Wild B-8			
SCALE: 1:15,000			
4. MANUSCRIPT DELINEATION PLANIMETRY BY Irene K. Perkinson			Sept. 1974
METHOD: Smooth ink drafted CHECKED BY Frank Margiotta			Sept 1974
SCALE: 1:10, 000			
HYDRO SUPPORT DATA BY			
CHECKED BY			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY Frank P. Margiotta			Sept 1974
6. APPLICATION OF FIELD EDIT DATA BY I. Perkinson			Apr. 1975
CHECKED BY A. L. Shands			May 1975
7. COMPILATION SECTION REVIEW BY A. L. Shands			May 1975
8. FINAL REVIEW BY Billy H. Barnes			July 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY S. BLANKENBAKER			SEPT 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R. T. CATDR			SEP 1976

TP-00678  
**COMPILATION SOURCES**

**1. COMPILATION PHOTOGRAPHY**

CAMERA(S) Wild RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE CHARLESTON SC (Southport NC)		(C) COLOR X		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES		(P) PANCHROMATIC		MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> REFERENCE STATION RECORDS		(I) INFRARED X			
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 73C(C)4604(I)-4606(I)	OCT 12 73	09:53	1:30,000	3.9 ft. above MLW	
* 73C(C)4522(I)-4524(I)	OCT 12 73	09:10	1:30,000	4.3 ft. above MLW	
** 73C(C)4811(I)-4813(I)	OCT 15 73	12:00	1:30,000	±0.2 ft. of MHW	
** 73C(C)6073(I)-6075(I)	NOV 10 73	13:04	1:30,000	±0.2 ft. of MLW	
MHW=3.8 ft.					

REMARKS  
\*Bridge and compilation photos. \*\*This "tide co-ordinated" photography is based on predicted times of MH and ML waters.

**2. SOURCE OF MEAN HIGH-WATER LINE:**

The mean high water line was compiled graphically from office interpretation of the "tide coordinated" infrared photographs listed in 1. above.

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

The mean low water line was compiled graphically from office interpretation of the "tide coordinated" infrared photographs listed in 1. above.

**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
TP-00676	TP-00679	TP-00681	No Survey

REMARKS

HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Oct. 1973
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R. D. Black None R. D. Black	Oct. 1973  Oct. 1973
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None NONE	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	NA	
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	NA	
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Premarked		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
73c(c)4523(I)	FEDERAL POINT. 1913		

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:  REPORT  NONE

6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	George W. Jamerson	Feb. 1975
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	George W. Jamerson NA NA	Feb. 1975
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	George W. Jamerson NA George W. Jamerson	Feb. 1975  Feb. 1975
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	George W. Jamerson	Feb. 1975
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDENTIFIED N.A.
----------------------------------	--

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) field edit  
73c6074

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
No Landmarks; 6 Aids to Navigation verified

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES:  REPORT  NONE

6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)  
3-Form 76-40

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Sept 24, 74	Class III manuscript	4/13/75	11/13/74
Field edit applied Compilation complete	Apr. 10, 75	Class I Superseded	5/9/75	
Final Review	Jul. 76			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
7		5/12/75	Aids for charts
4		5/12/75	Aids to be deleted

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

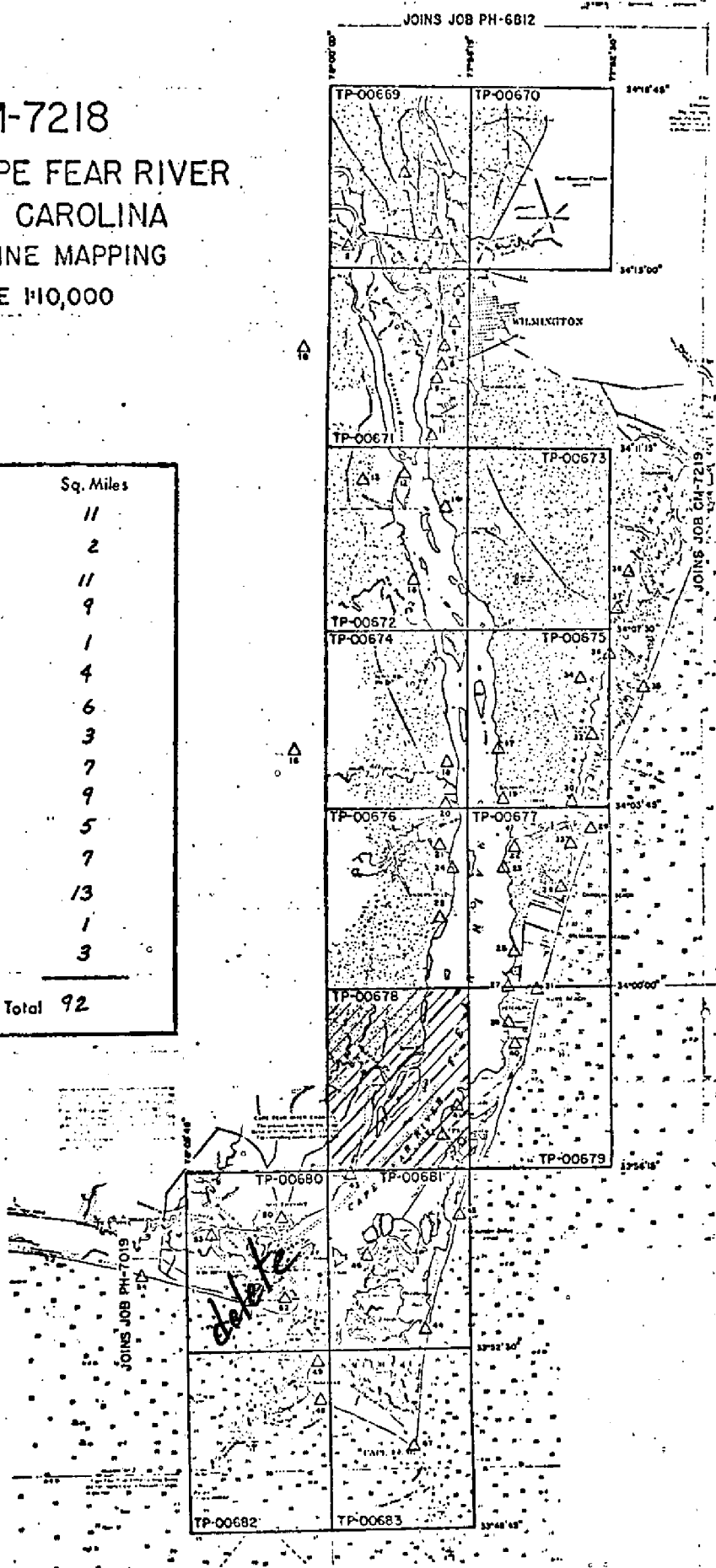
1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.  
 2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS. 76-48 SUBMITTED BY FIELD PARTIES.  
 3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:  
 4.  DATA 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	

CM-7218  
 LOWER CAPE FEAR RIVER  
 NORTH CAROLINA  
 SHORELINE MAPPING  
 SCALE 1:10,000

Sheet No.	Sq. Miles
TP-00 669	11
TP-00 670	2
TP-00 671	11
TP-00 672	9
TP-00 673	1
TP-00 674	4
TP-00 675	6
TP-00 676	3
TP-00 677	7
TP-00 678	9
TP-00 679	5
TP-00 680	7
TP-00 681	13
TP-00 682	1
TP-00 683	3
<b>Total</b>	<b>92</b>



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT TP-00678

This shoreline manuscript is one of fourteen 1:10,000 scale maps which comprise Parts I and II of Project CM-7218, Lower Cape Fear River, North Carolina. This map is in Part III. It falls within the limits of 1:20,000 scale sheet TP-00704, CM-7219 which is a part of the Southern Coastal Plains Expedition or SCOPE Project. The southeastern quadrant of sheet TP-00678 was photo-reduced and the shoreline used on the final reviewed map TP-00704 at a scale of 1:20,000.

Field work prior to compilation consisted of recovery and premarking horizontal control required for bridging.

Analytic aerotriangulation for Part II was done in the Rockville Office in 1974 using the 1:30,000 scale, color, infrared, bridging photography dated October 1973. Bridge points were dropped for ordering 1:10,000 scale ratios.

Compilation was done at the Atlantic Marine Center in August and September 1974 using the 1:30,000 scale bridging photography for inshore details and the "tide co-ordinated" (see Form 76-36b, Item 1) photographs for the mean high and mean low water lines.

Field edit was done in February 1975.

Final review was done at the Atlantic Marine Center in July 1976.

The original manuscript is a stabilene sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A stable base copy and a negative of the final reviewed manuscript were forwarded for record and registry.



PHOTOGRAMMETRIC PLOT REPORT  
Job CM-7218  
Lower Cape Fear River  
North Carolina

21. Area Covered

This project covers the lower portion of the Cape Fear River, from just north of Wilmington, North Carolina, to the mouth of the river. Included are eleven T-sheets (TP-00669 thru TP-00679). All sheets are 1:10,000 scale.

22. Method

Two strips of color IR photography were bridged on the Wild STK 1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 1 (west strip) was adjusted on five triangulation stations and one tie point from Strip 2 (east strip) with two additional triangulation stations as checks. Strip 2 was adjusted on five triangulation stations and one tie point from Strip 1 with three additional triangulation stations as checks. Twenty-three tie points also provided checks between the two strips. Both adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:10,000 scale ratios were ordered.

Horizontal Control held within National Map Accuracy.

24. Supplemental Data

Vertical control, for bridging only, was obtained from local USGS quads.

25. Photography

Photography was adequate as to overlap, definition, and coverage.

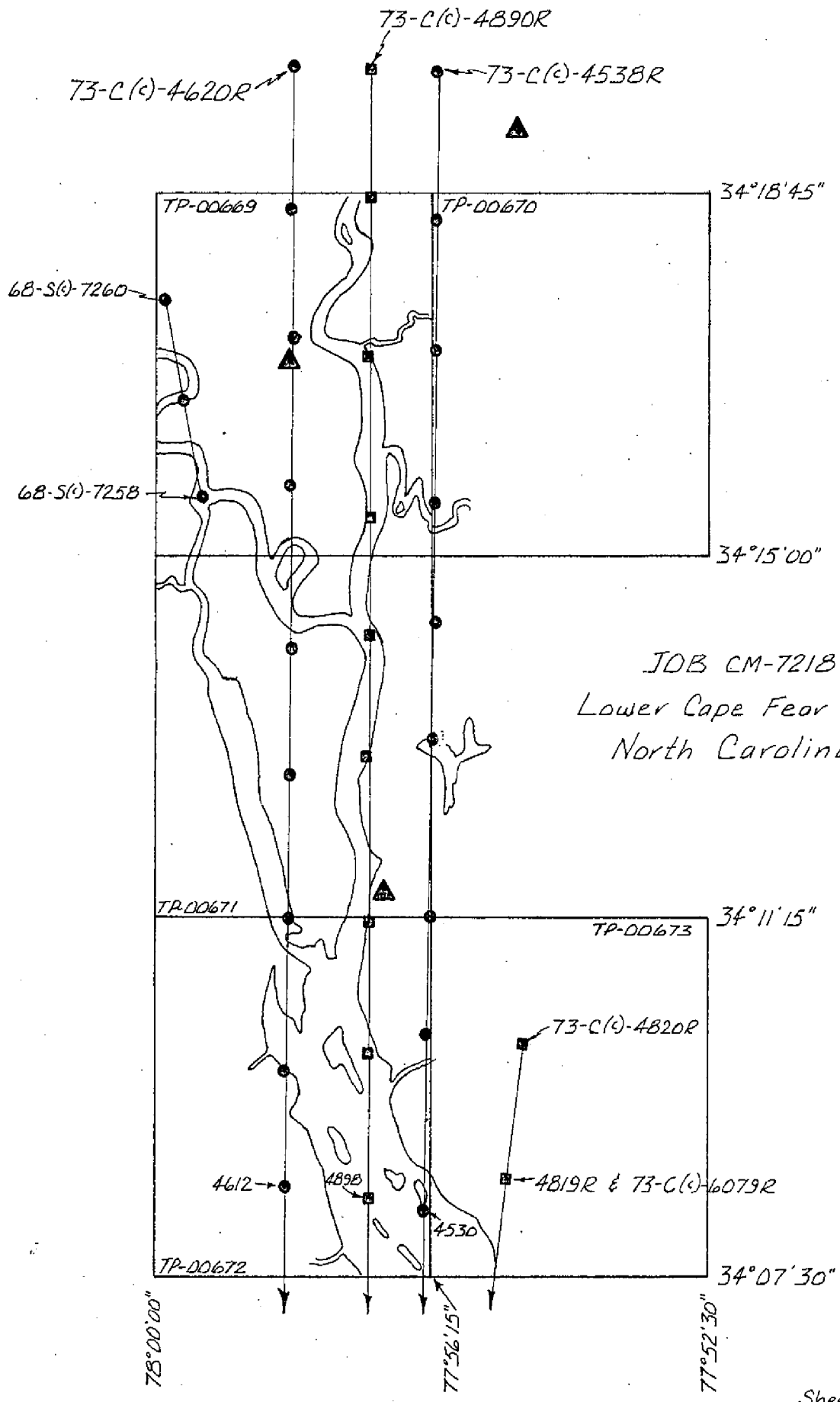
Submitted by,

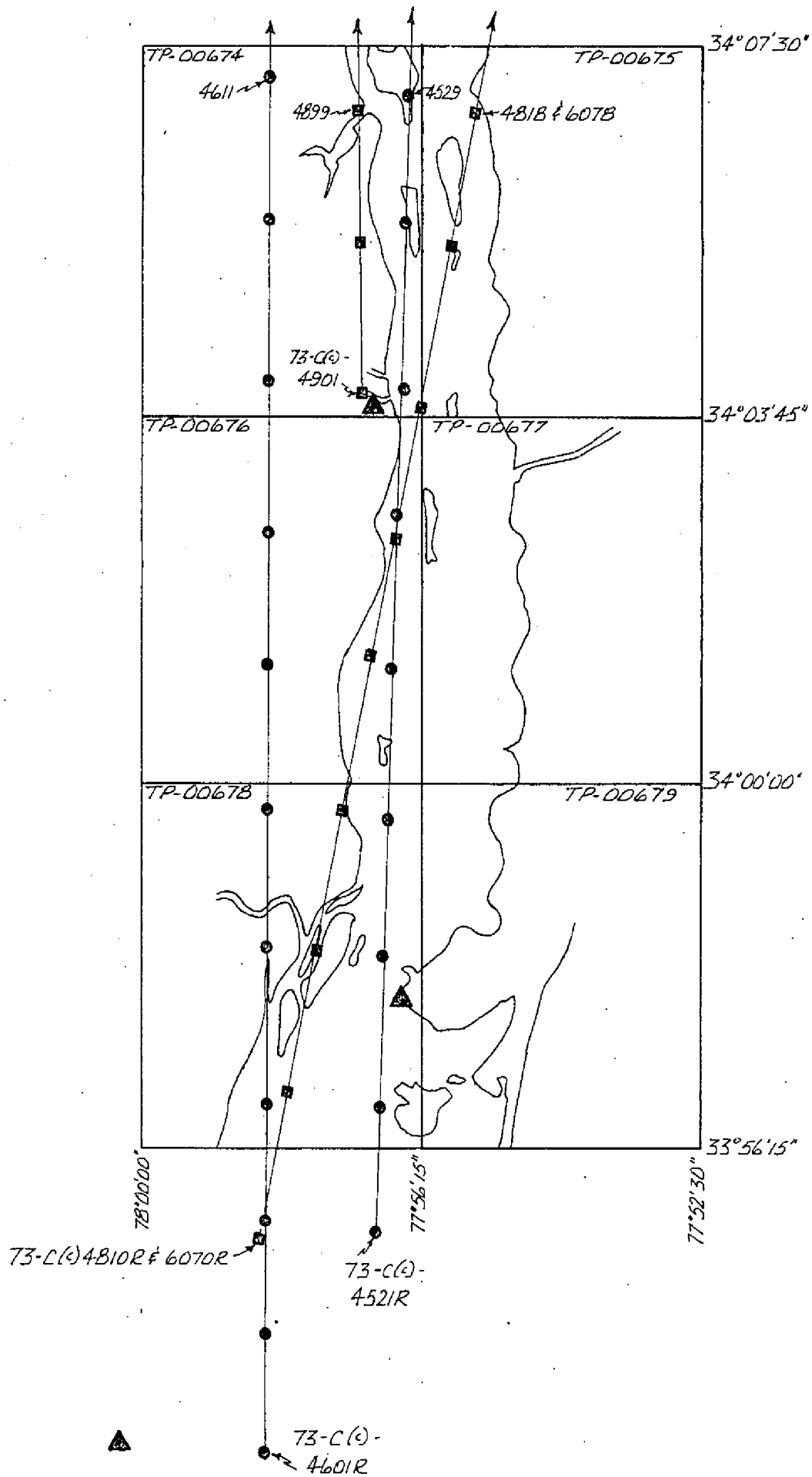
*Michael L. McGinley*  
Michael L. McGinley

Approved by:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.

Chief, Aerotriangulation Section





## Notes to Compiler

Photo-image points were located during bridging to be used if required, for controlling stereo models 68S(C)7258/59 and 7259/60. These photos cover the river in the western portion of sheet TP-00669.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM		ORIGINATING ACTIVITY		STATION NAME		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS	
		TP-00678	CM-7218	N.A.	1927	North Carolina	STATE		ZONE	φ	λ	LONGITUDE	II	Forward
									X=	φ 33	57	36.662	1128.4	(720.2)
									Y=	λ 77	56	29.835	766.0	(774.5)
									X=	φ 33	57	55.601	1713.1	(135.5)
									Y=	λ 77	57	37.668	967.1	(573.3)
									X=	φ 33	59	00.146	4.5	(1844.2)
									Y=	λ 77	57	25.114	644.6	(895.5)
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
									X=	φ				
									Y=	λ				
COMPUTED BY	A.C. Rauck, Jr.	COMPUTATION CHECKED BY		F.P. Margiotta		DATE		8/5/74	DATE		8/7/74			
LISTED BY		LISTING CHECKED BY				DATE			DATE					
HAND PLOTTING BY		HAND PLOTTING CHECKED BY				DATE			DATE					

## COMPILATION REPORT

TP-00678

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter. The mean high and mean low water lines were compiled graphically from 1:30,000 scale color infrared photography using control dropped in the B-8 models. The quality and coverage of the photography was adequate. There was no field inspection prior to compilation.

32. CONTROL

See the attached Photogrammetric Plot Report, not dated.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs. The mean high water and mean low water lines were delineated from the tide coordinated photographs. See Item 1 Form 76-36B

36. OFFSHORE DETAILS

All offshore details were compiled from office interpretation of the photography. No difficulties were experienced in the identification and positioning of these features.

37. LANDMARKS AND AIDS

Preliminary Forms 76-40, Nonfloating Aids or Landmarks for Charts, were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See the attached form 76-36b, item #5 of Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U. S. Geological Survey Quadrangle: Kure Beach, NC., scale 1:24,000 dated 1970

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart: No.11247(426), scale 1:40,000, 11th edition, dated June 3, 1972.

TP-00678

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Cartographic Tech. Irene K Perkinson  
September 23, 1974

Approved:

Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section



ADDENDUM TO THE COMPILATION REPORT

TP-00678

FIELD EDIT

Field edit was adequate. All questions were answered.

2 Oct. 1975

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-7218 (Lower Cape Fear River, N.C.)

TP-00678

Cape Fear River

Federal Point

Fishing Creek

Governors Creek

Gum Log Branch

Horseshoe Shoal

Military Ocean Terminal - Sunny Point

Nancys Creek

Snows Marsh

Snows Point

Sunny Point

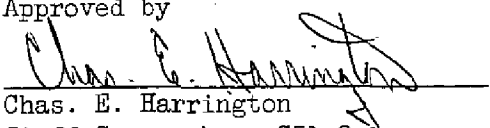
The Basin

The Rocks

Walden Creek

Zekes Island

Approved by

  
Chas. E. Harrington  
Staff Geographer--C51x2

NOAA FORM 75-74 (2-74)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
1. PROJECTION AND GRIDS F. P. M.	2. TITLE F. P. M.	3. MANUSCRIPT NUMBERS F. P. M.	4. MANUSCRIPT SIZE F. P. M.
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY F. P. M.		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA	7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT F. P. M.	11. DETAIL POINTS F. P. M.
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE F. P. M.	13. LOW-WATER LINE F. P. M.	14. ROCKS, SHOALS, ETC. F. P. M.	15. BRIDGES F. P. M.
16. AIDS TO NAVIGATION F. P. M.	17. LANDMARKS F. P. M.	18. OTHER ALONGSHORE PHYSICAL FEATURES F. P. M.	19. OTHER ALONGSHORE CULTURAL FEATURES F. P. M.
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES F. P. M.		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES XX
<b>CULTURAL FEATURES</b>			
27. ROADS F. P. M.	28. BUILDINGS F. P. M.	29. RAILROADS F. P. M.	30. OTHER CULTURAL FEATURES F. P. M.
<b>BOUNDARIES</b>			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES F. P. M.		34. JUNCTIONS F. P. M.	35. LEGIBILITY OF THE MANUSCRIPT
36. DISCREPANCY OVERLAY F. P. M.	37. DESCRIPTIVE REPORT F. P. M.	38. FIELD INSPECTION PHOTOGRAPHS F. P. M.	39. FORMS F. P. M.
40. REVIEWER F. MARGIOTTA SEPT., 1974		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER Irene Perkinson APR., 1975		SUPERVISOR Albert C. Rauck, Jr.	
Reviewer; A. L. Shands APR., 1975			
43. REMARKS Field edit ozalid, photo 73(C)(I) 6074 and form 76-40 & 526.			

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled according to instructions received from the Chief, Coastal mapping Division, dated May 28, 1974. Lt. George W. Jamerson performed the field edit on these two maps. The writer of this report made no attempt at "second guessing". No significant shoreline changes were noted during the field edit. Three submerged "pipes", probably drains or outfalls were overlooked on sheet TP-00679. They are readily visible on photo 73C6073 and were so indicated on the field edit ozalid. Several piling were omitted from sheet TP-00678. Eleven of them were visible on the photographs. They were indicated on the field edit ozalid and cross-referenced to the appropriate photograph. The remainder were located by sextant fix and were listed in a sketch book mentioned under side heading 52 in the field edit report for maps TP-00672 and TP-00673. The large wharf on TP-00678 is known as "South Wharf". It is part of Sunny Point Military Ocean Terminal and is in a restricted area. There is nothing else worthy of note on these maps.

54. Recommendations

See the report for maps TP-00674 and TP-00675.

56. Landmarks and Non-Floating Aids to Navigation

There are five landmarks on these maps. One of them, a stack, at the Carolina Power and Light Company nuclear power plant in the southwest corner of TP-00678 was located during field edit on Job PH-7019. Nothing further was done with it during this field edit. The remaining four landmarks are on TP-00679. Two of them, the Fort Fisher Radar Domes, were taken care of during the field edit on CM-7219. Of the remaining two, one was correctly compiled and was entered on Form 76-40 as "triangulation recovered". The other landmark, a microwave tower, was not extant at the time of photography. It was located by ground control methods and was entered on Form 76-40 as "F. 3 A."

There are no fixed aids for navigation on Map TP-00679. There are seven fixed aids to navigation on TP-00678. Six of them were correctly compiled and were entered on the Form 76-40 furnished by compilation as "position verified". The remaining aid, Sunny Point Terminal Light 3, was correctly compiled, but was erroneously labeled "pile" on the manuscript. The light was correctly labeled on the field edit ozalid and was entered on Form 76-40 as "position verified".

57. Rocks, Reefs and Shoals

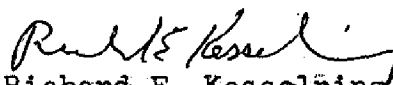
There are no rocks or reefs, as defined, on either of these maps. There are numerous shoals and shallow areas. As hydrography was being run nearly concurrent with the field edit, no effort was made to delineate or confirm any of them, except where specifically questioned. For shoals and shallows see the current hydrography.

58. Photography

Photography consisted of 1:10,000 ratio office prepared prints of color infrared photographs. The photography was good.

59. Disposition of Data

The field edit ozalids, the film ozalids, the color photography and all pertinent field edit data were forwarded to the Director, Atlantic Marine Center for proper dissemination.

  
Richard E. Kesselring  
Surveying Technician  
Photo Party 62





REVIEW REPORT TP-00678

SHORELINE

July 1976

61. GENERAL STATEMENT

See Summary which is page six of this Descriptive Report.

The term "tide-coordinated" is loosely used with this project. Photography was flown at mean high water and mean low water based on predicted tides - not on staff readings, as is generally thought of when "tide coordinated" is used. The word "predicted" is used in the remarks column of Form 76-15, Photographic Flight Report, for the 1973 photography which is referred to in the project instructions as being tide coordinated.

A comparison print showing differences noted in paragraphs 62 through 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with the T-8196, scale 1:20,000, dated 1944. A new canal starting at approximately 33°57.3 latitude 77°58.3 longitude and heading in a western direction has been dug since 1944. This and other significant differences are shown on the comparison print in blue. In the area compared, TP-00678 supersedes T-8196 for nautical chart construction purposes. T-8196 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.C.S. Quadrangle Kure Beach, NC., scale 1:24,000 dated 1970. Differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the preliminary boat sheets H-9489 (AHP-10-7-74), scale 1:10,000 dated 1974 and H-9501 (AHP-10-2-75), scale 1:10,000, dated 1975. There are several piling, iron pipes and one rock shown on the hydrographic sheets that could not be seen on the photography. There is also



a wreck shown at approximately 33°57.4 latitude and 77°57.1 longitude on the boat sheet that could not be seen on the photography. These and other significant differences are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

The area covered by this map lies within the limits of NOAA-NOS Chart 11537 (426), scale 1:40,000, 15th edition, dated April 3, 1976. Many submerged piles, a pipe and piles above water are shown on the chart that were not visible on 1973 photography. These differences are shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instruction (See Summary and Section 61 of this report), meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Reviewed by:

*Billy H. Barnes*

Billy H. Barnes  
Cartographer

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*D.K. Anderson*      *Jan Latta*

Chief, Photogrammetric Branch, Chief, Coastal Mapping Div.,

TP-00678  
Scale 1:10,000

24

The Basin



Y=75,000 FT

57'

Piling ○○○○  
R SWASH CHANNEL Piling  
E REAR LIGHT & REAVES  
CHANNEL RANGE REAR

Comparison Print  
Red= Chart 11537  
Blue= T-8196  
Purple=H-9501(AHP-10-2-75)  
Brown= USGS QUAD

The Rocks  
(Breakwater)

57' = 2,320,000 FT

56'30"

77°56'15"

56'30"

Y=70,000 FT

33°56'15"

third-order or higher accuracy  
less than third-order accuracy

ts of vegetation visible above

ate mean high water.  
from aerial photographs

73

NATIONAL OCEAN SURVEY  
SHORELINE MANUSCRIPT  
TP-00678  
NORTH CAROLINA  
LOWER CAPE FEAR RIVER  
SNOWS MARSH

SCALE 1:10,000  
(1 inch = 833.33 ft)  
CONTROL DATA

Polyconic projection: 1927 North American Datum  
5,000 foot grid based on North Carolina plane coordinate system  
Datum plane: Mean High Water

TP 00678

TP-00678  
Scale 1:10,000

25  
pipe

pipe

Subm  
pile

SUNNY POINT 1913  
Sunny Pt

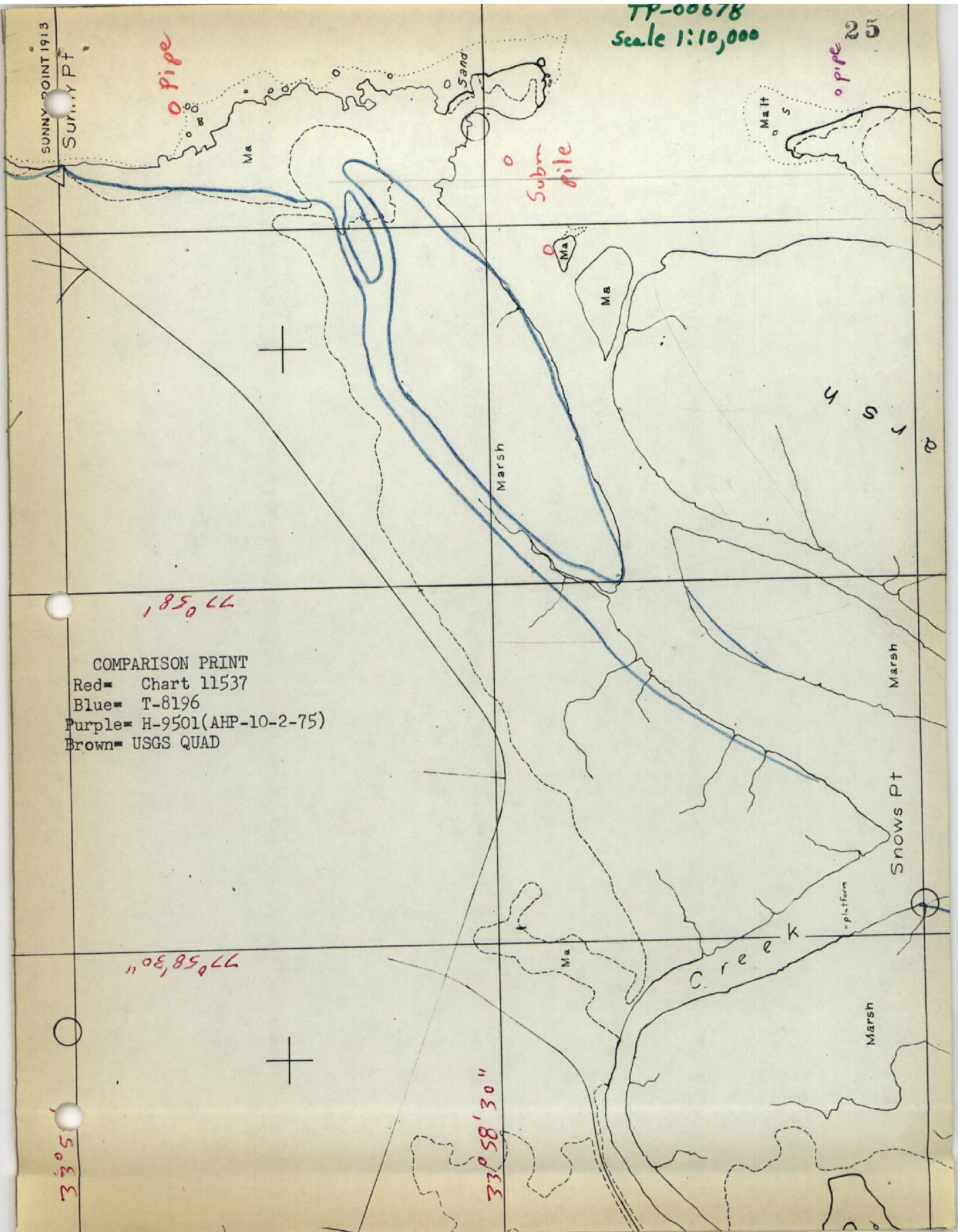
COMPARISON PRINT  
Red= Chart 11537  
Blue= T-8196  
Purple= H-9501(AHP-10-2-75)  
Brown= USGS QUAD

77°58'11"

77°58'30"

33°56'

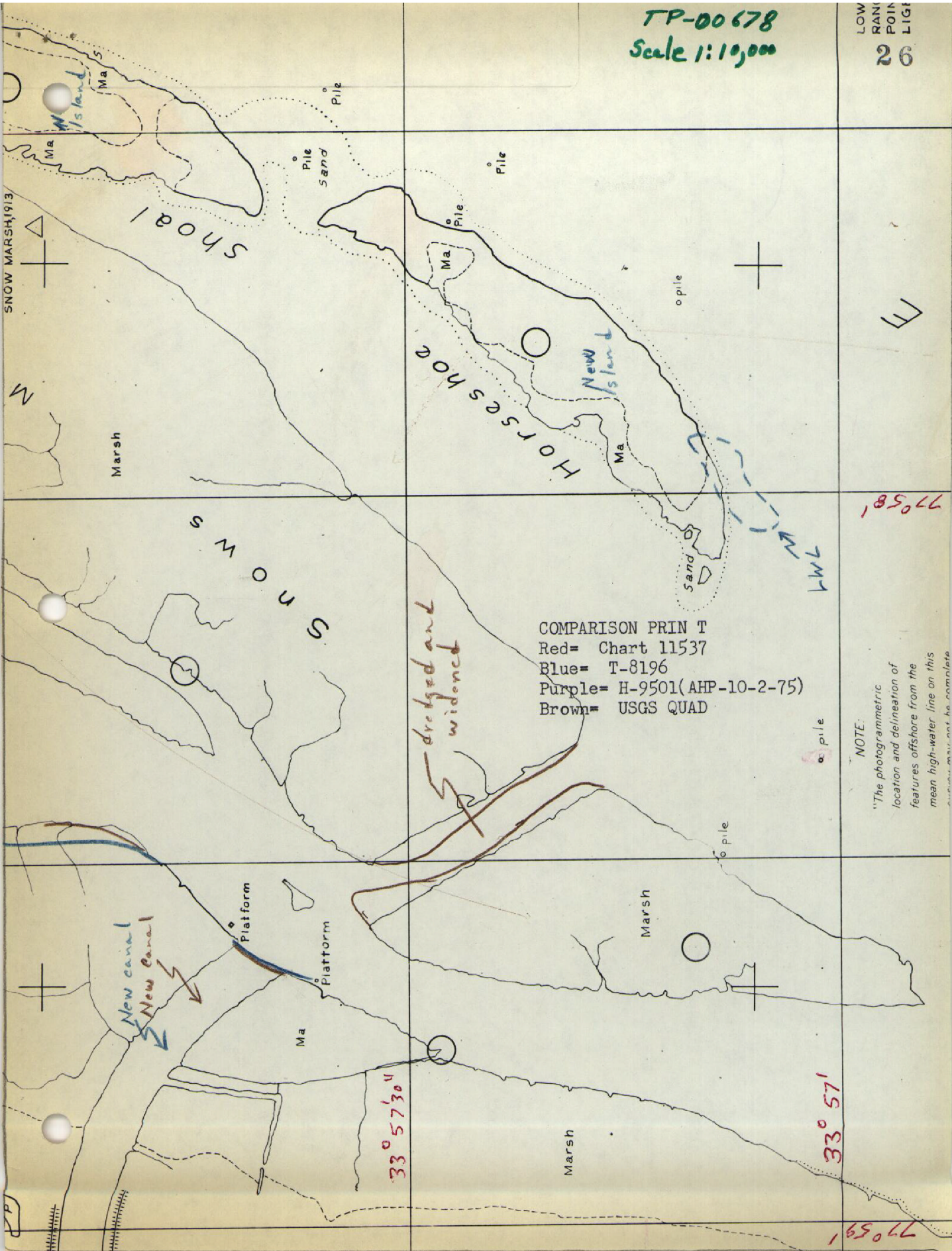
33°58'30"



TP-00678  
Scale 1:10,000

LOW  
RANG  
POINT  
LIGHT

26



TP-00678  
Scale 1:10,000

27

Light

77° 57'

77° 56' 15"

58' 30"

COMPARISON PRINT

Red= Chart 11537

Blue= T-8196

Purple= H-9501(AHP-10-2-75)

Brown=USGS QUAD

R

E

F

33°

58'

Y=80,000 FT

Y=80,070

X=2,315,250

34-57-55

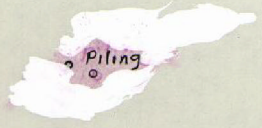
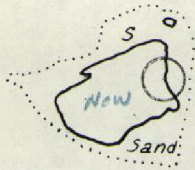
77-57-37

33°

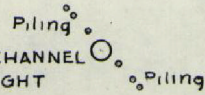
57' 30"

Ramp from  
field edit (CM-  
C100  
6-7-76

Pile  
Pile

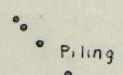


SNOWS MARSH CHANNEL  
RANGE REAR LIGHT



Subm  
pile

Piling



FEDERAL POINT  
1913

Subm  
pile

Federal  
Point  
FT Fisher-  
Southport  
Ferry

S MARSH CHANNEL  
FRONT LIGHT &  
ES POINT CHANNEL  
FRONT LIGHT.

FEDERAL POINT  
1913

Sub  
Sta

Ma

Ma

Ma

Ma

Ma

pile

Pile

piles

Ramp

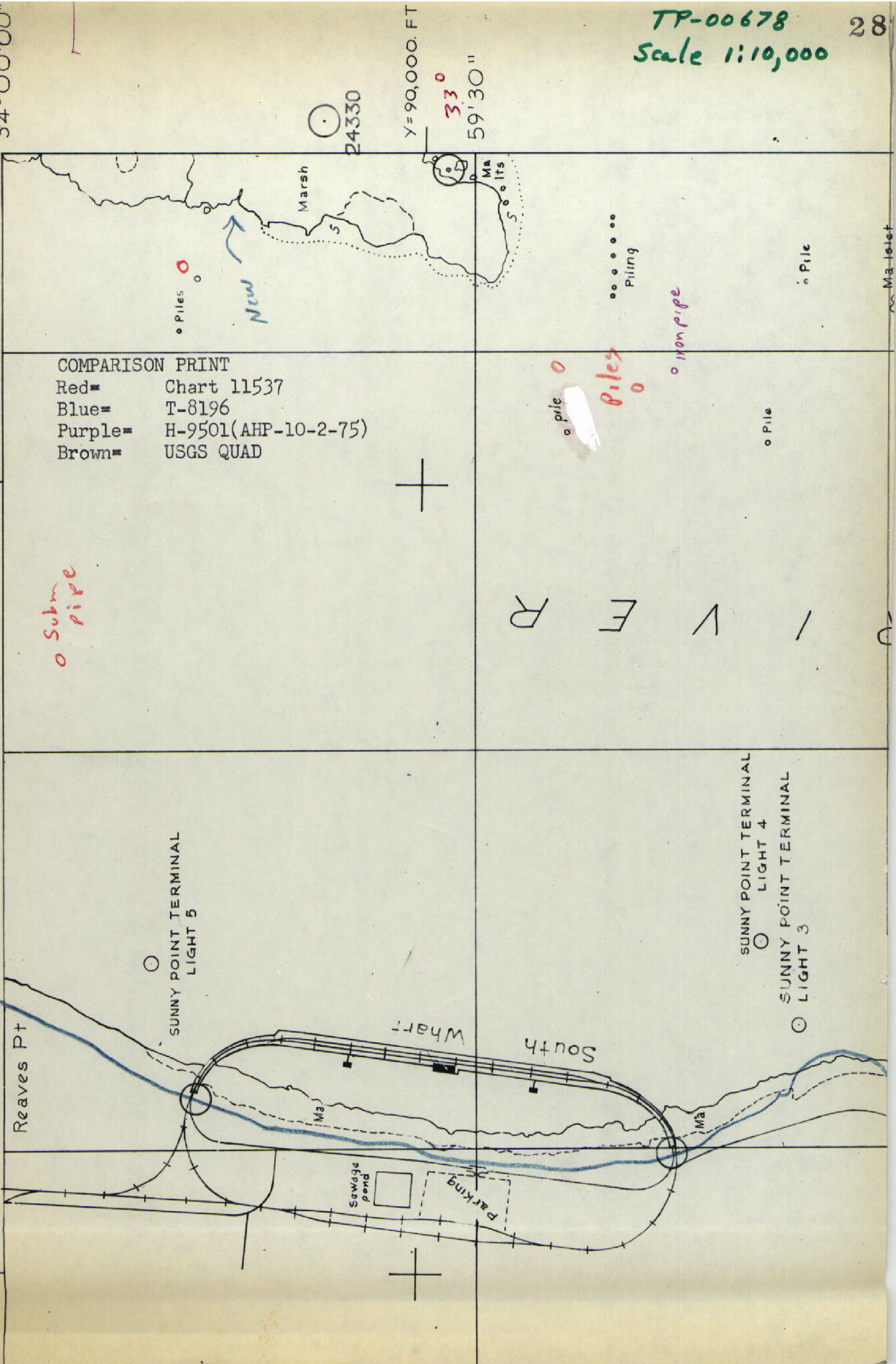
iron  
pipe

Rocks  
water

Wreck

5,000 FT | 57' 30" | 57' | 56' 30" | 77° 56' 15" | 34° 00' 00"

X = 2,320,000 FT



COMPARISON PRINT  
Red = Chart 11537  
Blue = T-8196  
Purple = H-9501(AHP-10-2-75)  
Brown = USGS QUAD

Subm pipe

R I V E R

SUNNY POINT TERMINAL LIGHT 5

SUNNY POINT TERMINAL LIGHT 4  
SUNNY POINT TERMINAL LIGHT 3

Reaves Pt

Wharf

South

Sewage pond

Parking

Marsh

24330

Y = 90,000. FT

33°

59' 30"

Pile

Piles

Iron pipe

Pile

Pile

Ma-lslet