

TP-00676

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00676

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-00676
Classification No.	Edition No. 1
Field Edited Map	
LOCALITY	
State North Carolina	
General Locality Lower Cape Fear River	
Locality Anderson Landing	
<hr/> 19 72 ₃ TO 19 75 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00676</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB <u>CM-7218</u>
DESCRIPTIVE REPORT - DATA RECORD		

PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA	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__
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR	

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Part I Compilation Feb. 27, 1973 Part II Aerotriangulation Mar., 1974 Compilation Jul. 15, 1974	Oct. 5, 1973

II. DATUMS	
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

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY M. McGinley	M. McGinley	None
METHOD: Analytic LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY R. Robertson	R. Robertson	Jul., 1974
METHOD: Calcomp. CHECKED BY R. Robertson	R. Robertson	Jul., 1974
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R.R. White	R.R. White	Sep., 1974
COMPILATION CHECKED BY L.O. Neterer	L.O. Neterer	Sep., 1974
INSTRUMENT: Wild B-8 CONTOURS BY NA	NA	
SCALE: 1:15,000 CHECKED BY NA	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY Irene K. Perkinson	Irene K. Perkinson	Oct., 1974
CHECKED BY L.O. Neterer, Jr.	L.O. Neterer, Jr.	Oct., 1974
METHOD: Smooth ink drafted CONTOURS BY NA	NA	
CHECKED BY NA	NA	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY NA	NA	
CHECKED BY NA	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY L.O. Neterer, Jr.	L.O. Neterer, Jr.	Oct., 1974
6. APPLICATION OF FIELD EDIT DATA BY Charles Parker	Charles Parker	Apr., 1975
CHECKED BY A.L. Shands	A.L. Shands	Apr., 1975
7. COMPILATION SECTION REVIEW BY A.L. Shands	A.L. Shands	Apr., 1975
8. FINAL REVIEW BY Billy H. Barnes	Billy H. Barnes	July, 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY S. BLANKENBAKER	S. BLANKENBAKER	SEPT. 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R. J. CATRK	R. J. CATRK	SEP 1976

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 "C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE CHARLESTON, SC		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X	ZONE Eastern		<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES (Southport, NC) <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			MERIDIAN 75th		<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 730(C)4525(I) & 4526(I)	12 OCT 73	09:10	1:30,000	4.3 ft. above MLW	
** 730(C)4814(I) - 4816(I)	15 OCT 73	12:00	1:30,000	+0.2 ft. of MHW	
** 730(C)6071(I) - 6072(I)	10 NOV 73	13:04	1:30,000	+0.2 ft. of MLW	

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 TP-00674	EAST TP-00677	SOUTH TP-00678	WEST No Survey
REMARKS			

TP-00676
HISTORY OF FIELD OPERATIONS.

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Sep., 1973
2. HORIZONTAL CONTROL	RECOVERED BY	R.D. Black
	ESTABLISHED BY	NA
	PRE-MARKED OR IDENTIFIED BY	R.D. Black
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	None
	LOCATED (Field Methods) BY	None
	IDENTIFIED BY	None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<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	2. VERTICAL CONTROL IDENTIFIED
Premarked	NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
73L(C)4527(I)	SPRUNT, 1917		

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)

TP-00676

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	Feb., 1975
	George W. Jamerson	Feb., 1975
	Robert S. Tibbetts	Oct., 1973
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	George W. Jamerson	Feb., 1975
	George W. Jamerson	Feb., 1975
	George W. Jamerson	Feb., 1975
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	George W. Jamerson	Feb. 1975
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Pre-mark

2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details) Field Edit
730 6071; 730 6073

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
no landmarks; 8 aids verified; 2 aids located

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
1 - Paper ozalid with notes

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

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	15 OCT 74	Class III Manuscript Superseded	4/13/75	11/13/74
Compilation complete field edit applied	10 APR 75	Class I Manuscript Superseded	5/9/75	
Final Review	July, 1976			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
10		5/12/75	Aids for Charts

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 5/12/75
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

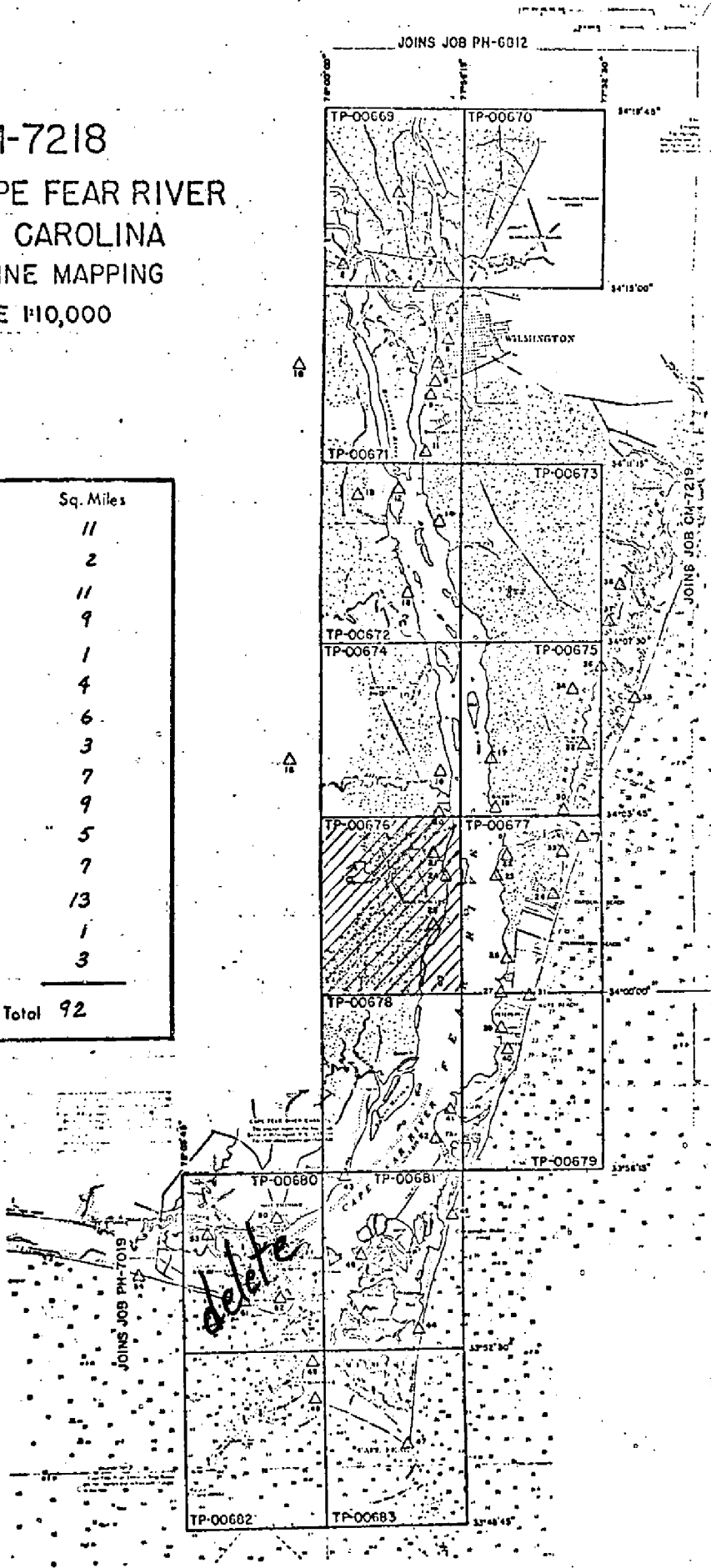
- BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
- CONTROL STATION IDENTIFICATION CARDS; FORM NOS ~~76-40~~ ⁷⁶⁻⁴⁰ SUBMITTED BY FIELD PARTIES.
- SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
- DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

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
Total	92



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00676

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 II. It falls within the limits of a 1:20,000 scale sheet TP-00702, CM-7219, which is a part of the Southern Coastal Plains Expedition or SCOPE Project. None of the shoreline of this map was used on TP-00702.

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 September and October 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.

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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

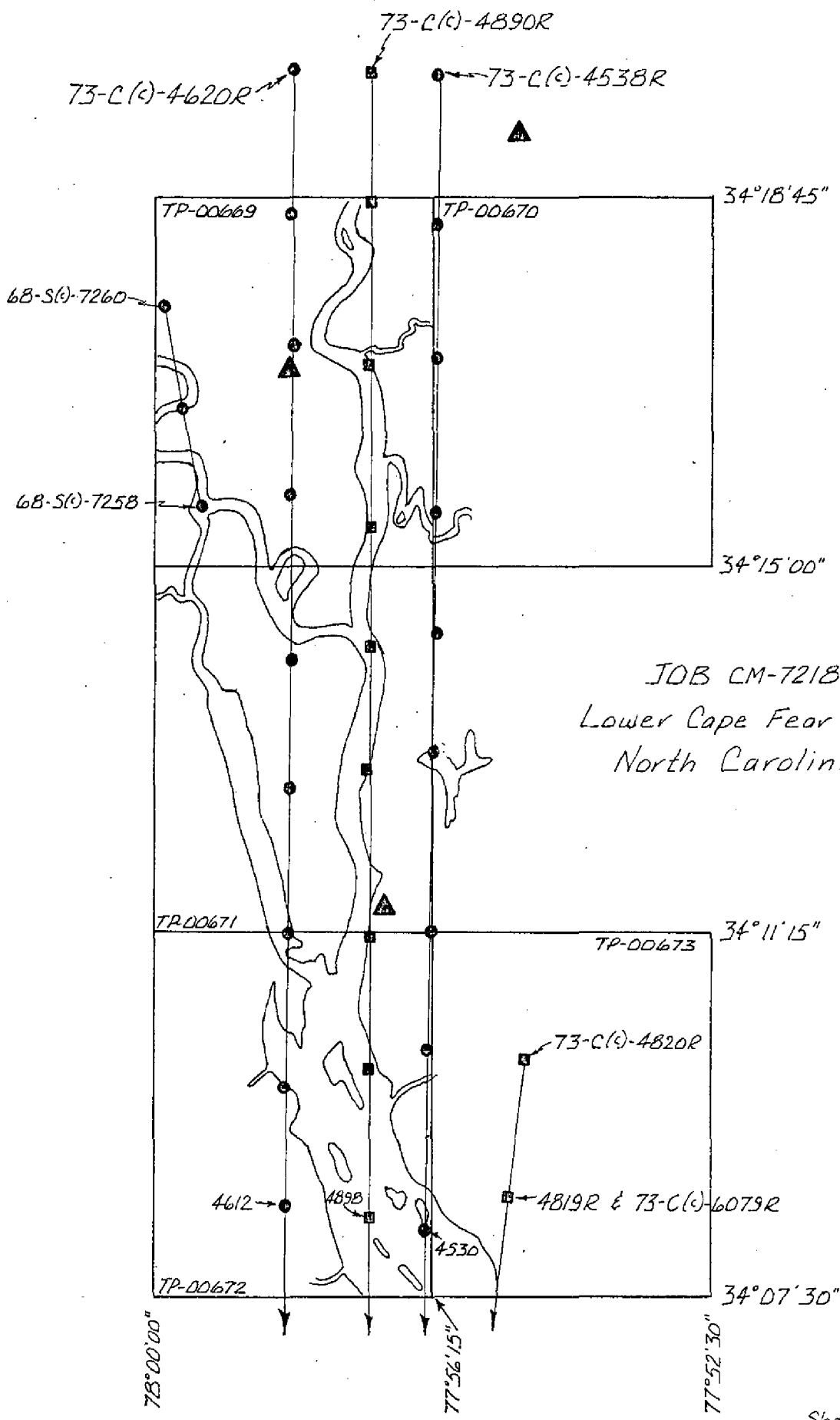
Photography was adequate as to overlap, definition, and coverage.

Submitted by,

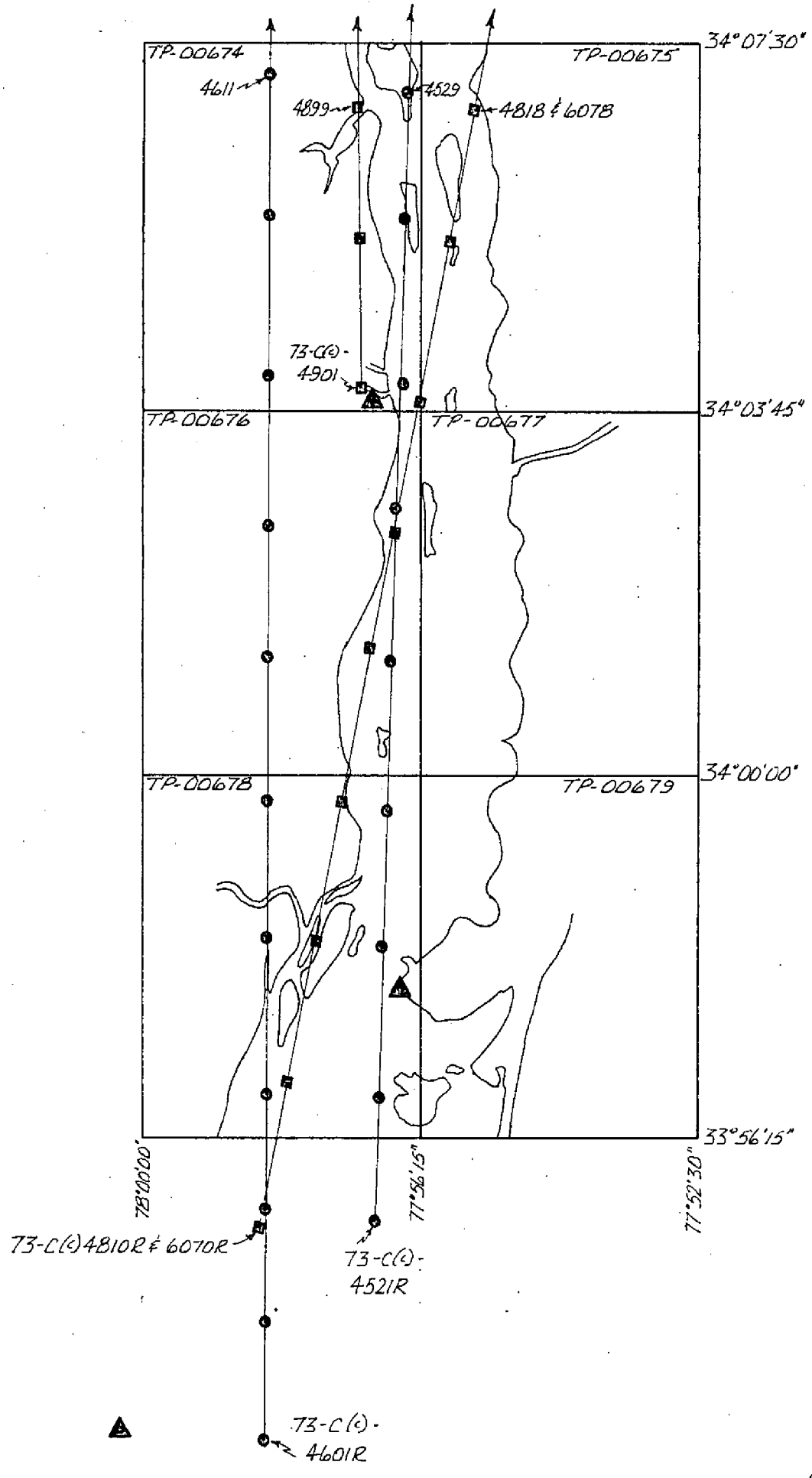
Michael L. McGinley
Michael L. McGinley

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section



JOB CM-7218
Lower Cape Fear River
North Carolina



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.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODEIC DATUM		GEOGRAPHIC POSITION		REMARKS	
					STATE	ZONE	φ	λ	Latitude	Longitude
TP-00676	GM-7218				N.A.	1927				
		ORTON, CHURCH CUPOLA, 1917	G.P. Vol. / II Pg. 571		x=	y=	φ 34 03	λ 32.537	1002.5	(846.2)
		ORTON, GREEN TANK, 1917	G.P. Vol. / II Pg. 571		x=	y=	λ 77 56	51.885	1330.6	(208.1)
		ORTON POINT, LARGE BARN, EAST GABLE, 1917	G.P. Vol. / II Pg. 571		x=	y=	φ 34 03	26.411	813.7	(1035.0)
		SPRUNT, 1917	G.P. Vol. / I Pg. 131		x=	y=	λ 77 56	51.692	1403.6	(135.2)
		RUINS, 1917	G.P. Vol. / I Pg. 131		x=	y=	φ 34 03	38.723	823.3	(1025.4)
		CYPRESS, 1932	G.P. Vol. / I Pg. 40		x=	y=	λ 77 56	46.853	1325.7	(213.1)
					x=	y=	φ 34 02	22.337	1193.1	(655.6)
					x=	y=	λ 77 56	37.312	1201.5	(337.2)
					x=	y=	φ 34 01	06.622	688.2	(1160.5)
					x=	y=	λ 77 57	36.604	957.1	(582.0)
					x=	y=	φ		204.0	(1644.7)
					x=	y=	λ		939.2	(600.3)
					x=	y=	φ			
					x=	y=	λ			
					x=	y=	φ			
					x=	y=	λ			
					x=	y=	φ			
					x=	y=	λ			
COMPUTED BY		A.C. Rauck, Jr.		DATE					COMPUTATION CHECKED BY	DATE
LISTED BY				8/5/74					Frank Margiotta	8/7/74
HAND PLOTTING BY				DATE					LISTING CHECKED BY	DATE
				DATE					HAND PLOTTING CHECKED BY	DATE

COMPILATION REPORT

TP-00676

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter using 1:30,000 scale color infrared photography.

Photography was adequate. The mean high water line and mean low water line were delineated graphically using "tide controlled" infrared photography provided for that purpose. Control points were established by B-8 method. See Item 1, Form 76-36b.

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 low water lines were delineated from the tide coordinated photographs.

36. OFFSHORE DETAILS

All offshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

37. LANDMARKS AND AIDS

Preliminary Forms 76-40, Nonfloating Aids or Landmarks for Charts, were prepared by the Compilation Office and for-

warded 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 the 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: CAROLINA BEACH, N.C., 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, 13th edition, dated April 20, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Irene K. Perkinson

Irene K. Perkinson

Carto. Tech., October 15, 1974

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00676

FIELD EDIT

Field edit was adequate.

All questions were answered. There are no piling visible on 730(C) 6071(I) in area circled by the field editor. Area was delineated on manuscript and labeled "foul with piling."

Field editor indicates that pile marker has been delineated on TP-00678 by him. No film ozalid for TP-00678 or TP-00676 could be found.

2 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00676

Anderson Landing

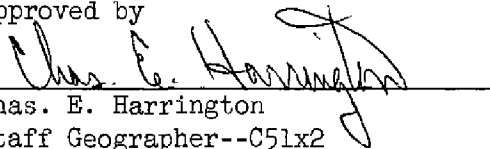
Cape Fear River

Military Ocean Terminal - Sunny Point

Orton Point

Reaves Point

Approved by


Chas. E. Harrington

Staff Geographer--C51x2

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW TP -00676			
1. PROJECTION AND GRIDS LON	2. TITLE LON	3. MANUSCRIPT NUMBERS X X	4. MANUSCRIPT SIZE LON
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LON	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 X X	10. PHOTOGRAMMETRIC PLOT REPORT LON	11. DETAIL POINTS Not Used for Hydro Support LON
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LON	13. LOW-WATER LINE LON	14. ROCKS, SHOALS, ETC. X X	15. BRIDGES X X
16. AIDS TO NAVIGATION LON	17. LANDMARKS X X	18. OTHER ALONGSHORE PHYSICAL FEATURES LON	19. OTHER ALONGSHORE CULTURAL FEATURES LON
PHYSICAL FEATURES			
20. WATER FEATURES LON	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 LON
CULTURAL FEATURES			
27. ROADS LON	28. BUILDINGS X X	29. RAILROADS LON	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES No official name list available LON 10/17/74		34. JUNCTIONS LON	35. LEGIBILITY OF THE MANUSCRIPT LON
36. DISCREPANCY OVERLAY LON	37. DESCRIPTIVE REPORT LON	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS LON
40. REVIEWER L.O. Neterer, Jr. 10/18/74		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 Charles Parker 4/10/75 Reviewer: A.L. Shands 4/1975		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS Field edit applied from: Field edit ozalid TP-00676, and Cronapaque ratios 730(C) 6071 and 730(C) 6073.			

FIELD EDIT REPORT
JOB CM 7218
LOWER CAPE FEAR RIVER
MAPS TP-00676 and TP-00677

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. The field work on these maps except for topo of a new boat basin was accomplished by Lt. George W. Jamerson. The writer of this report made no attempt to "second guess" the field editor. Except for the new boat basin mentioned previously no significant shoreline changes were noted during field edit. Little of any importance was overlooked during compilation. A few piling, visible on photo 73C 6072, were omitted. These were indicated on the field edit ozalid and cross-referenced to the photograph. A small "foul" area near the southern limit of sheet TP-00677 was overlooked. It was accurately delineated on the film ozalid of the manuscript and attention drawn to it on the field edit ozalid.

The wharfs on the west shore of the Cape Fear River are known as "Center Wharf" and "North Wharf" respectively, instead of "Wharf No. 2 and No. 3". These wharfs are part of Sunny Point Military Ocean Terminal and are in a restricted area.

A new boat basin has been built since photography just south of Snows Cut on map TP-00677. A scaled sketch (1" = 50 ft.) of the basin was made on the film ozalid of the manuscript. The basin was then tied in, at key points, from a traverse station in the vicinity. A list of the positions of these points is included with this report. The points are indicated on the sketch, along with six new channel markers that form part of the boat basin. Positions of the channel markers are included with this report. The basin is a part of Carolina Beach State Park.

54. Recommendations

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

56. Landmarks and Non-Floating Aids for Navigation

There are three landmarks on these maps. All of them on sheet TP-00677. Two of them, Moran Towers, were correctly compiled and were entered as "position verified" on the Form 76-40 furnished by compilation. The third landmark, a tank, was not extant at the time of photography. It was located by ground survey methods, indicated on the field edit ozalid, and entered on Forms 76-53 and 76-40 which are included with this report.

There are twenty-seven aids to navigation on these maps. Sixteen of them were correctly compiled and were entered as "position verified" on the Form 76-40 furnished the field editor by the compiling activity. Five of the

remaining aids were visible on the photography and were entered as "P.1" on the Form 76-40 mentioned above. The other six aids were located by sextant fixes and plotted on the film ozalid of the manuscript. The sextant fixes were listed in a sketch book which is discussed under side heading 52 in the report for Maps TP-00672 and TP-00673. These aids were entered on the Form 76-40 as "F.4.C." The form is included with this report.

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, but, except where specifically questioned, no effort was made to delineate them or give heights on them. Concurrent hydrography is being run on these maps and it was felt that the effort would be a needless duplication. See the current hydrography for shoals and shallow areas on these maps.

58. Photography

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

59. Disposition of Data

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

Richard E. Kesselring
Richard E. Kesselring
Surveying Technician
Photo Party 62

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Div.
Norfolk, VA

STATE
North Carolina

LOCALITY
Lower Cape Fear River

DATE
7/12/76

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

- HYDROGRAPHIC PARTY
 - GEODETIC PARTY
 - PHOTO FIELD PARTY
 - COMPILATION ACTIVITY
 - FINAL REVIEWER
 - QUALITY CONTROL & REVIEW GRP.
 - COAST PILOT BRANCH
- (See reverse for responsible personnel)

The following objects HAVE been inspected from seaward to determine their value as landmarks.

JOB NUMBER
CM-7218

SURVEY NUMBER
TP-00676

DATUM
N.A. 1927

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE
73C(C)(I)6072

FIELD
V-V18
Feb., 1975

CHARTS
AFFECTED
11537
(426)

CHARTING NAME
LIGHT

DESCRIPTION
Upper Midnight Channel*
Light 34

LATITUDE
34 02

LONGITUDE
77 56

D.P. Meters
21.9
562

REASON FOR DELETION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses.)

*This light was erroneously labeled
"Upper Midnight Channel North Range
Rear Light" on the Class I Manuscript.

TYPE OF ACTION		RESPONSIBLE PERSONNEL	
		NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD			<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED			FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			<input type="checkbox"/> OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)			
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75		FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

To charts
5/9/75

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Div.
AMC - Norfolk, Va.

STATE
North Carolina

LOCALITY
Lower Cape Fear River

DATE
Apr. 1975

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

NONFLOATING AIDS FOR CHARTS

ORIGINATING ACTIVITY

- HYDROGRAPHIC PARTY
 - GEODETIC PARTY
 - PHOTO FIELD PARTY
 - COMPILATION ACTIVITY
 - FINAL REVIEWER
 - QUALITY CONTROL & REVIEW GRP.
 - COAST PILOT BRANCH
- (See reverse for responsible personnel)

The following objects HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO. 437

DATUM
N.A. 1927

LOCALITY
Lower Cape Fear River

DATE
Apr. 1975

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

JOB NUMBER
CM-7218

SURVEY NUMBER
TP-00676

POSITION

OFFICE

FIELD

CHARTS
AFFECTED

DESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

LATITUDE

LONGITUDE

D.M. Meters

D.P. Meters

LIGHT

Sunny Point Terminal Junction Light

34-00

77-57

06.47

73C(C)(I)6072
Nov. 10, 1973

P-5
Feb. 1975
73C(C)(I)6073

426

To charts
5/9/75

NOAA FORM 76-40 (8-74)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
NONFLOATING AIDS OR LANDMARKS FOR CHARTS		LOCALITY		DATE		<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC - Norfolk, Va.		Lower Cape Fear River Apr. 1975		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.		STATE North Carolina		DATUM N.A. 1927		OFFICE V-Vis. Feb. 1975	
OPR PROJECT NO. 437		SURVEY NUMBER TP-00676		POSITION		CHARTS AFFECTED	
CHARTING NAME (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		DESCRIPTION CAPE FEAR RIVER		LATITUDE D.M. Meters		LONGITUDE D.P. Meters	
				° / ' "		° / ' "	
LIGHT	Upper Midnight Channel North Range Front Light	✓ 34-03	✓ 23.98 739	✓ 77-56	✓ 25.31 649	"	426
LIGHT	Upper Midnight Channel North Range Rear Light	✓ 34-02	✓ 56.83 1751	✓ 77-56	✓ 21.95 563	"	"
LIGHT	Sunny Point Terminal Light 18	✓ 34-01	✓ 23.82 734	✓ 77-56	✓ 35.00 898	"	"
LIGHT	Sunny Point Terminal Light 17	✓ 34-01	✓ 17.23 531	✓ 77-56	✓ 39.25 1007	"	"
LIGHT	Sunny Point Terminal Light 16	✓ 34-01	✓ 02.73 84	✓ 77-56	✓ 50.35 1292	"	"
LIGHT	Sunny Point Terminal Light 14	✓ 34-01	✓ 00.65 20	✓ 77-56	✓ 57.45 1174	"	"
LIGHT	Sunny Point Terminal Light 12	✓ 34-00	✓ 41.48 1278	✓ 77-57	✓ 04.13 106	"	"
LIGHT	Sunny Point Terminal Light 10	✓ 34-00	✓ 33.66 1037	✓ 77-57	✓ 01.87 48	"	"
LIGHT	Sunny Point Terminal Light 8	✓ 34-00	✓ 10.51 324	✓ 77-57	✓ 05.34 137	"	"
							21

P-5
Feb 1975
730(C)(I)6073

REVIEW REPORT TP-00676

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 on 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 T-5041, scale 1:20,000, dated 1933. There are many piers and piles shown on the topo sheet that do not appear on the latest photographs. These and other significant differences are shown in blue on the comparison print. In the area compared, TP-00676 supersedes T-5041 for nautical chart construction purposes. T-5041 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle CAROLINA BEACH, N.C., scale 1:24,000, dated 1970. The only differences noted were the positions of the lights in the river. This is a reasonable change. This is shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the preliminary boat sheets H-9501 (AHP-10-2-75) and H-9502 (AHP-10-3-75) at a scale of 1:10,000, dated 1975. The only significant differences noted were a pile in a different location than the one located by photogrammetry at latitude $34^{\circ} 01.9'$ and Upper Midnight Channel Light 34 was called Upper Midnight Channel North Range Rear Light. These 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 piles, pipes and piers in ruins are shown on the chart that were not visible on current photography and thus could not be shown on the TP sheet. These differences are shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions (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:

AK Raymond

Chief, Photogrammetric Branch *db*

Janice Lott

Chief, Coastal Mapping Div.

TP-00676
 Scale 1:10,000

Y=95,000 F

34°00'00"
 77°56'15"
 4

37°01'

34°
 00'30"

NOTE:
 "The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

Piling 8

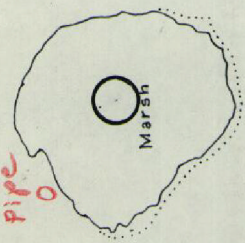
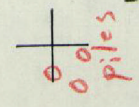
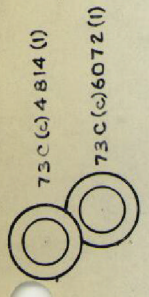
Range Marker

Row of Piling

COMPARISON PRINT
 Red= Chart 11537
 Blue= T-5041
 Brown= USGS QUAD

COMPARISON PRINT
 Red= Chart 11537
 Blue= T-5041
 Brown= USGS QUAD

TERMINAL LIGHT 14

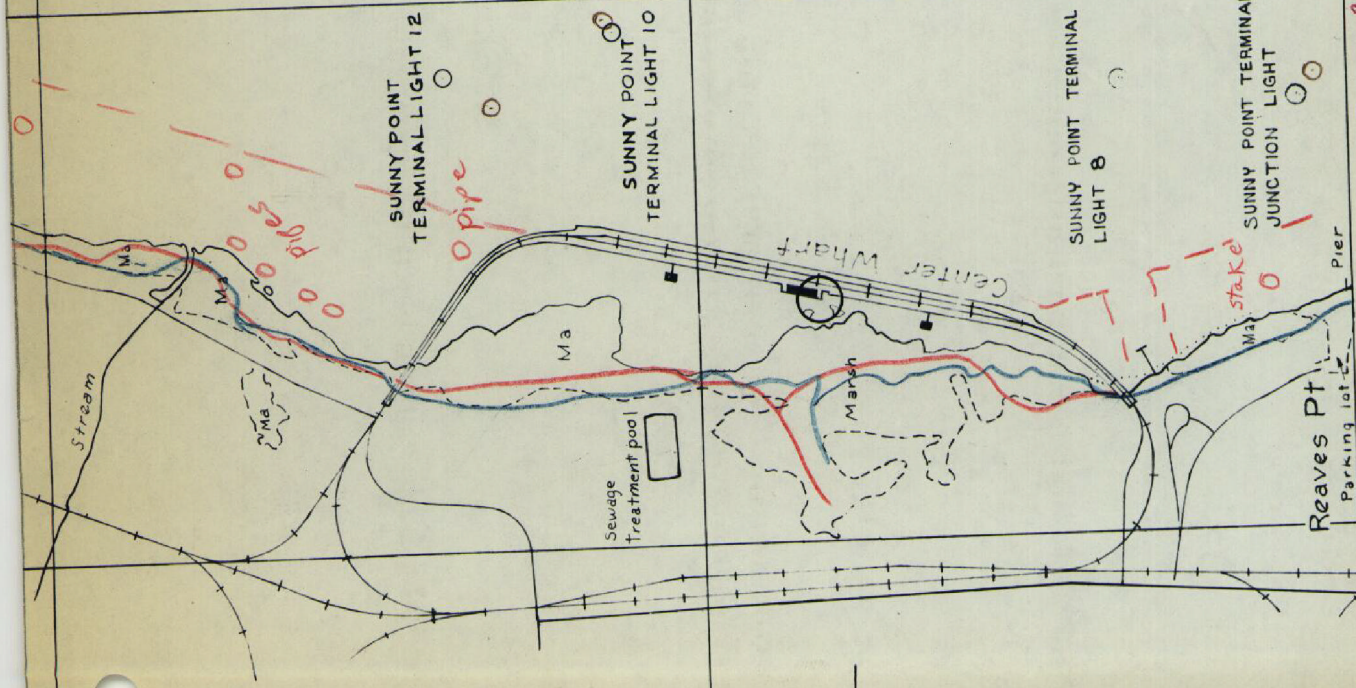


SUNNY POINT
 TERMINAL LIGHT 12

SUNNY POINT
 TERMINAL LIGHT 10

SUNNY POINT
 TERMINAL LIGHT 8

SUNNY POINT
 TERMINAL JUNCTION LIGHT



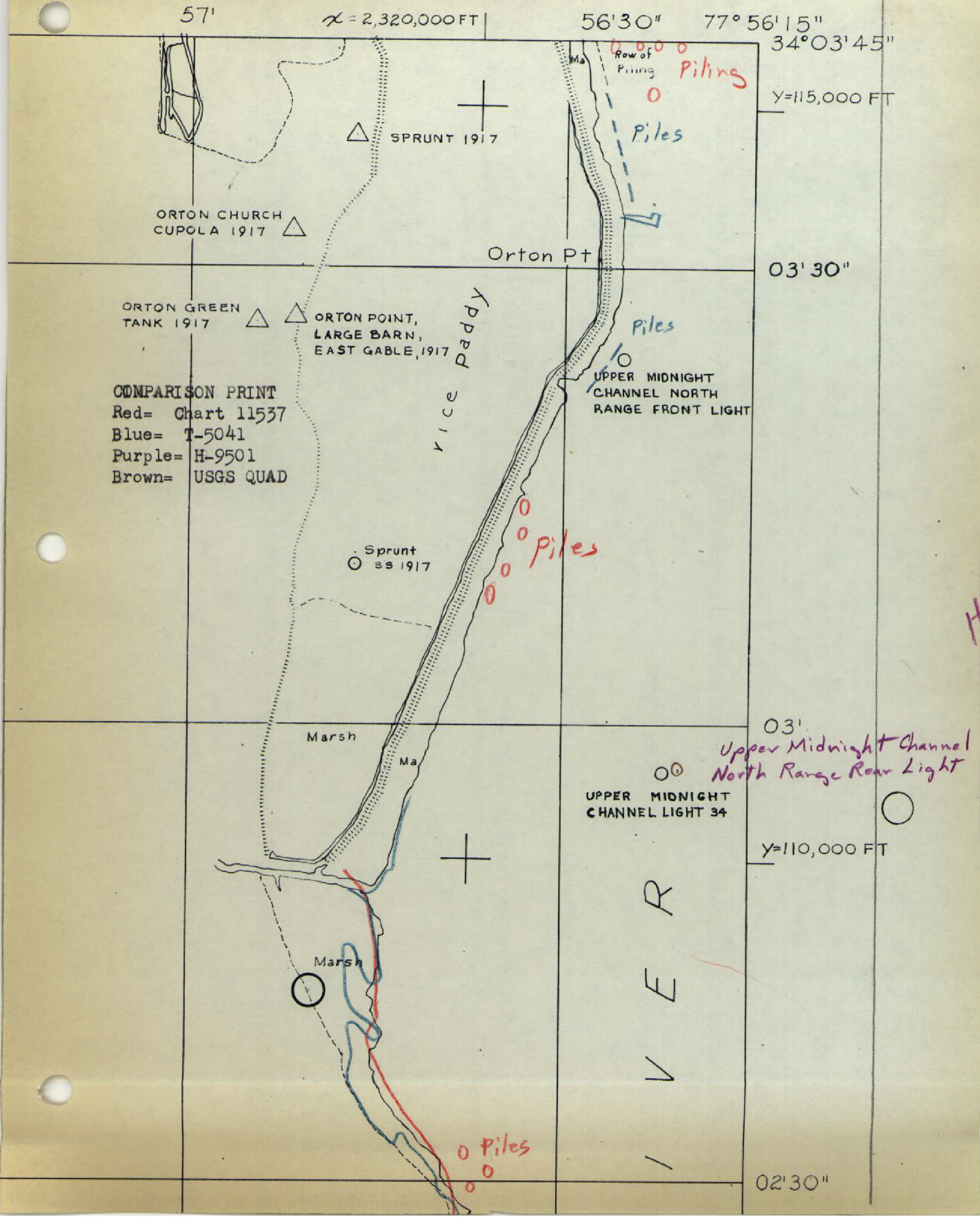
Reaves Pt
 Parking lot

α = 2,320,000 FT

77°57'

57'30"

15,000 FT



Anderson Landing
Foul with Steel Piling
RUINS 1917

73C(0)4815(1)
73C(0)6071(1)
TP-00676
Scale 1:19,000
26

Y=105,000 F
34° 02'

Pile is in different location

Piling
Pile Markers

Piles

F E A R

34° 01' 30"

77° 57' 00"

SUNNY POINT
TERMINAL LIGHT 18

SUNNY POINT
TERMINAL LIGHT 17

77° 56' 30"

Y=100,000 FT

77° 56' 15"

SUNNY POINT
TERMINAL LIGHT 16
SUNNY POINT

E

REMARKS
Class III
Paper 1001

