TP-00681

ORIGINAL

TP-00681

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-00681

Classification No. Field Edited Map *Edition No.* ... 1

LOCALITY

State ... North Carolina

General Locality ... Lower Cape Fear River

Locality ... New Inlet

1972 TO 1975

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP-00681
MAP EDITION NO. (1)
MAP CLASS Final (F.E.)
JOB PH. CM-7218

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE
Jeffrey G. Carlen, Cdr.

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD
Feb. 27,1973	Part I Compilation	Oct. 5, 1973
Mar. 7, 1974	Part II Aerotriangulation	
July 15,1974	Compilation	

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [X] MEAN LOW-WATER; [ ] MEAN LOWER LOW-WATER; [ ] 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 METHOD: Steroplanigraph	BY	J.E. Schad	Mar. 1973
	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp	PLOTTED BY	(unknown)	Mar. 1973
	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	Frank P. Margiotta	Apr. 1973
	CHECKED BY	L.O. Neterer	Apr. 1973
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:20,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	L.B. Foltz	Apr. 1973
	CHECKED BY	A.L. Shands	Apr. 1973
METHOD: Smooth Ink Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	L.B. Foltz	Apr. 1973
SCALE: 1:10,000	CHECKED BY	A.L. Shands	Apr. 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	A.L. Shands	Apr. 1973
6. APPLICATION OF FIELD EDIT DATA	BY	J. Desoh	Mar. 1975
	CHECKED BY	Frank P. Margiotta	May 1975
7. COMPILATION SECTION REVIEW	BY	Frank P. Margiotta	May 1975
8. FINAL REVIEW	BY	Billy H. Barnes	June 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	S. SLAWKENBAKER	SEPT.
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. J. CATOK	SEP.

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/5

NOAA FORM 76-36B (3-72)

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "E" & RC10 "C"

TIDE STAGE REFERENCE: CHARLESTON, SC
- [X] PREDICTED TIDES (Southport, NC)
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR X
- (P) PANCHROMATIC
- (I) INFRARED X

TIME REFERENCE
- ZONE: Eastern — [X] STANDARD
- MERIDIAN: 75th — [ ] DAYLIGHT

	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
	72 E(C)6736-6738	20 OCT 72	13:50	1:40,000	2.0 ft. above MLW
	72 E(C)6866-6867	21 OCT 72	12:15	1:40,000	0.1 ft below MLW
*	73 C(C)(1)6076,6077	10 NOV 73	13:05	1:30,000	+ 0.2 ft. of MLW
*	73 C(C)(1)4810	15 OCT 73	11:57	1:30,000	∓ 0.2 ft. of MHW

REMARKS

*This "tide co-ordinated" photography is based on predicted times of MH and ML waters.

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHW line was compiled from 1972 color photography, field edit measurements, and profiles before 1973 photos were available. When the 1973 photos became available, comparison was made with them and and corrections made where necessary.

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

The MLW line was graphically delineated from the 1973 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-00678	No Survey	TP-00683	T-12291 (2) PH-7019

REMARKS

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION.

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		Robert S. Tibbetts	OCT NOV 73
2. HORIZONTAL CONTROL	RECOVERED BY	R.E. Kesselring	SEPT. 1972
	ESTABLISHED BY	R.E. Kesselring	SEPT. 1972
	PRE-MARKED OR IDENTIFIED BY	R.E. Kesselring	SEPT. 1972
3. VERTICAL CONTROL	RECOVERED BY	R.E. Kesselring	SEPT. 1972
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	R.D. Black	OCT NOV 73
	LOCATED *(Field Methods)* BY	R.D. Black	OCT NOV 73
	IDENTIFIED BY	R.D. Black	OCT NOV 73
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R.D. Black	OCT NOV 73
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED Stations for foreshore Cross-sections

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

72 E (o) 6737

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

3 aids to navigation

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Film Ozalid with Annotations

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

13 - Form 76-70; 3 - Form 76-86; 3 - Form 76-72
2 - Form 76-67; 4 - pages Misc. Comps.; 1-- Form 382;
2 - Pages distances to MHWL; 1 - Form 76-40

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

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.	~~Dec. 1973~~ Aug. 1973	Class III Manuscript Superseded	6/8/73	4/30/73
Additional detail added in Northwest corner of sheet	Aug. 1974	Class III Manuscript Superseded	5 3/9/75	
Field edit applied. MLW Line applied from Nov., 1973 photography.	Mar. 1975	Class I Manuscript Superseded		
Compilation complete. Final Review	June 1976			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3		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

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)*

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

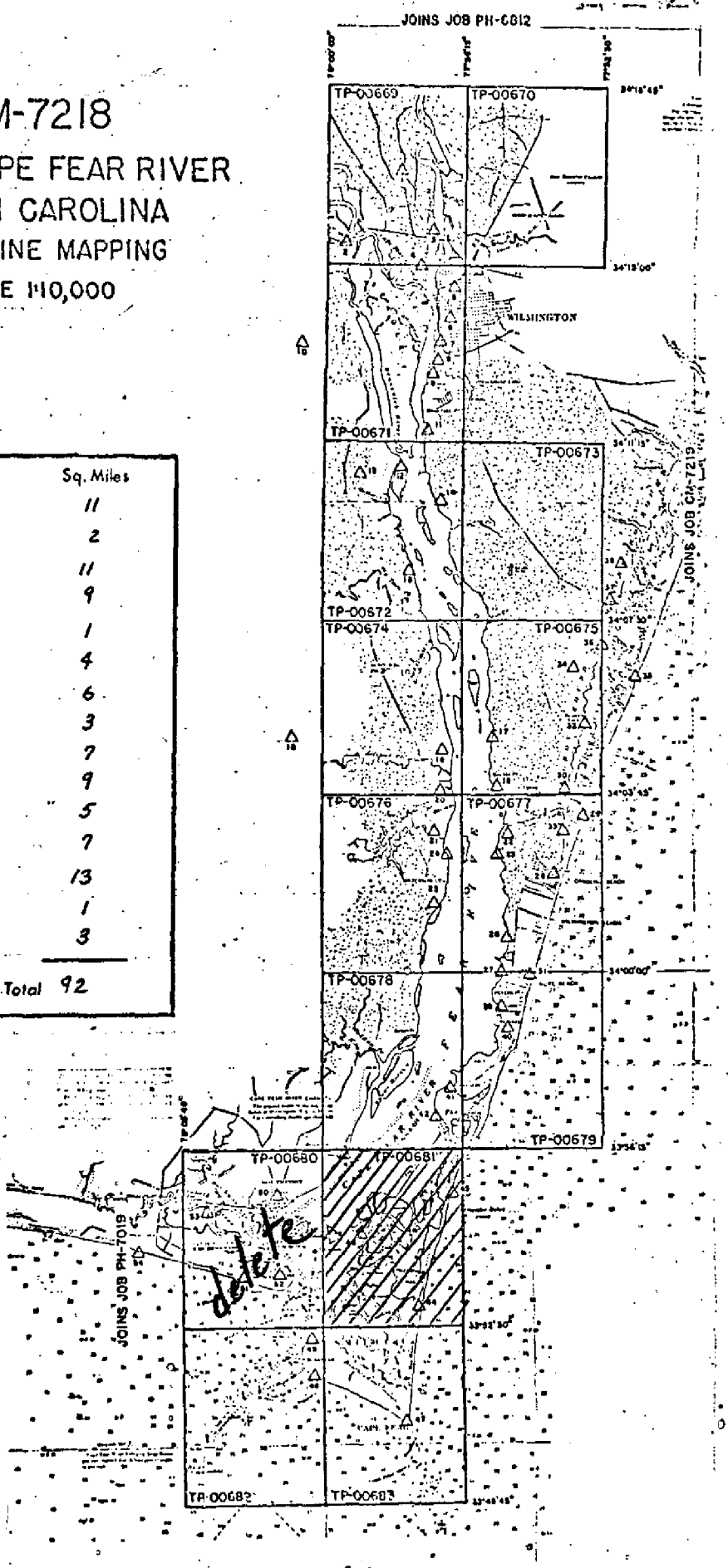
NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6

CM-7218

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

Sheet No.	Sq. Miles
TP-00669	11
TP-00670	2
TP-00671	11
TP-00672	9
TP-00673	1
TP-00674	4
TP-00675	6
TP-00676	3
TP-00677	7
TP-00678	9
TP-00679	5
TP-00680	7
TP-00681	13
TP-00682	1
TP-00683	3
Total	92



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT TP-00681

This 1:10,000 scale 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 I. It falls within the limits of map TP-00704, CM-7219, scale 1:20,000 which is a part of the Southern Coastal Plains Expedition or SCOPE project. It was photo reduced and the shoreline used on the final reviewed map TP-00704.

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

Bridging for Part I was done in the Rockville, MD office in March 1973 using the zeiss stereoplanigraph with 1:40,000 scale photography dated October 20, 1972. This bridge is an original part of CM-7219. A copy of the bridging report is included with the Descriptive Report.

Compilation was done at the Atlantic Marine Center in April 1973 using the 1972 bridging photographs. The Wild B-8 was used. In October and November of 1973, 1:30,000 scale color infrared photographs were flown based on predicted mean high and mean low waters. These photographs were used where necessary to revise and update the MH and ML water lines.

Field edit was done in August 1973.

Final Review was done at the Atlantic Marine Center in June 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 CH-7210
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 additonal 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 rules and plotted on the Coradomat.

1:10,000 scale ratios were ordered.

Horizontal Control held within National Map Accuracy.

24. Supplemental Data

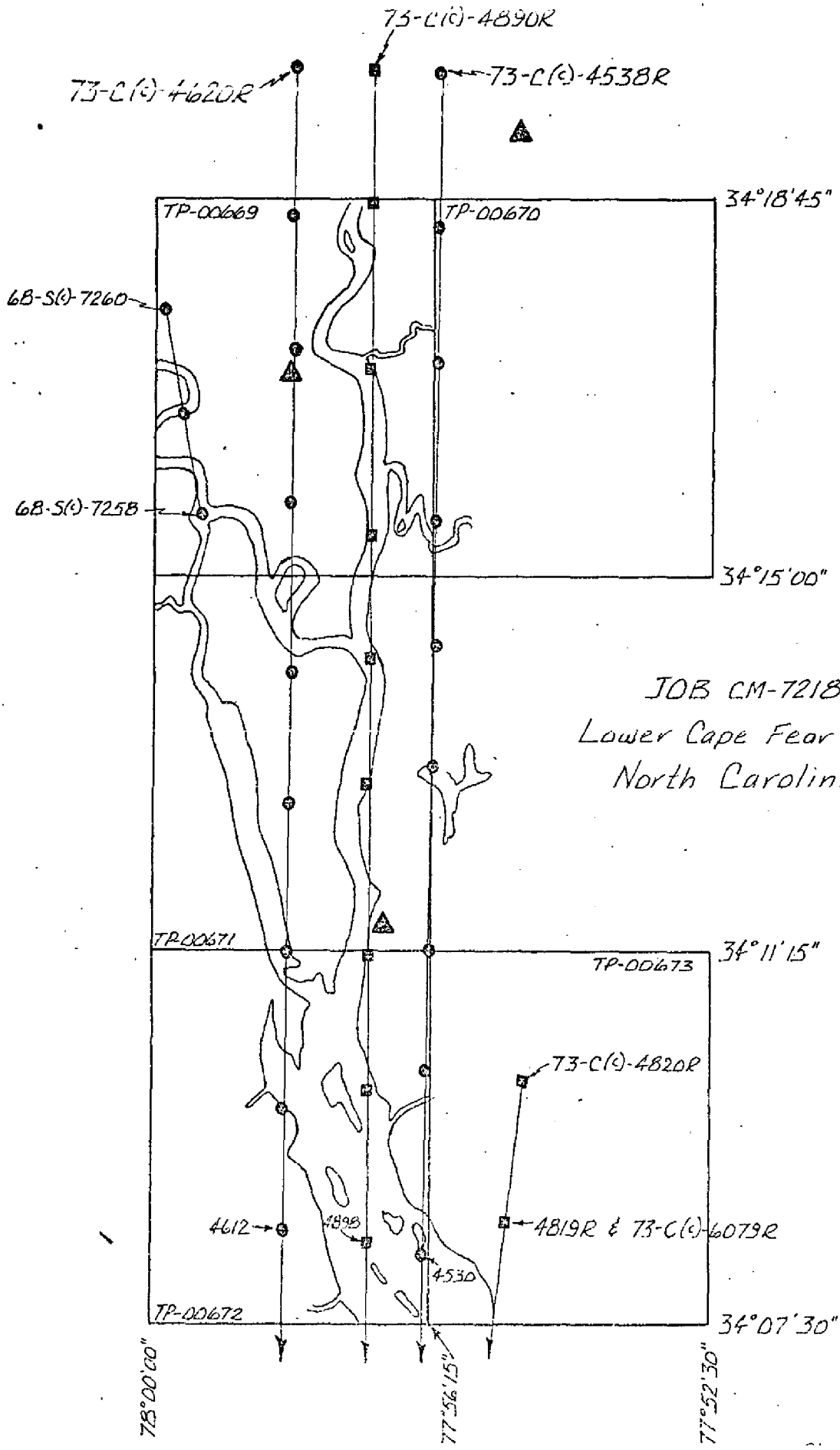
Vertical control, for bridging only, was obtained from local USGS quads.

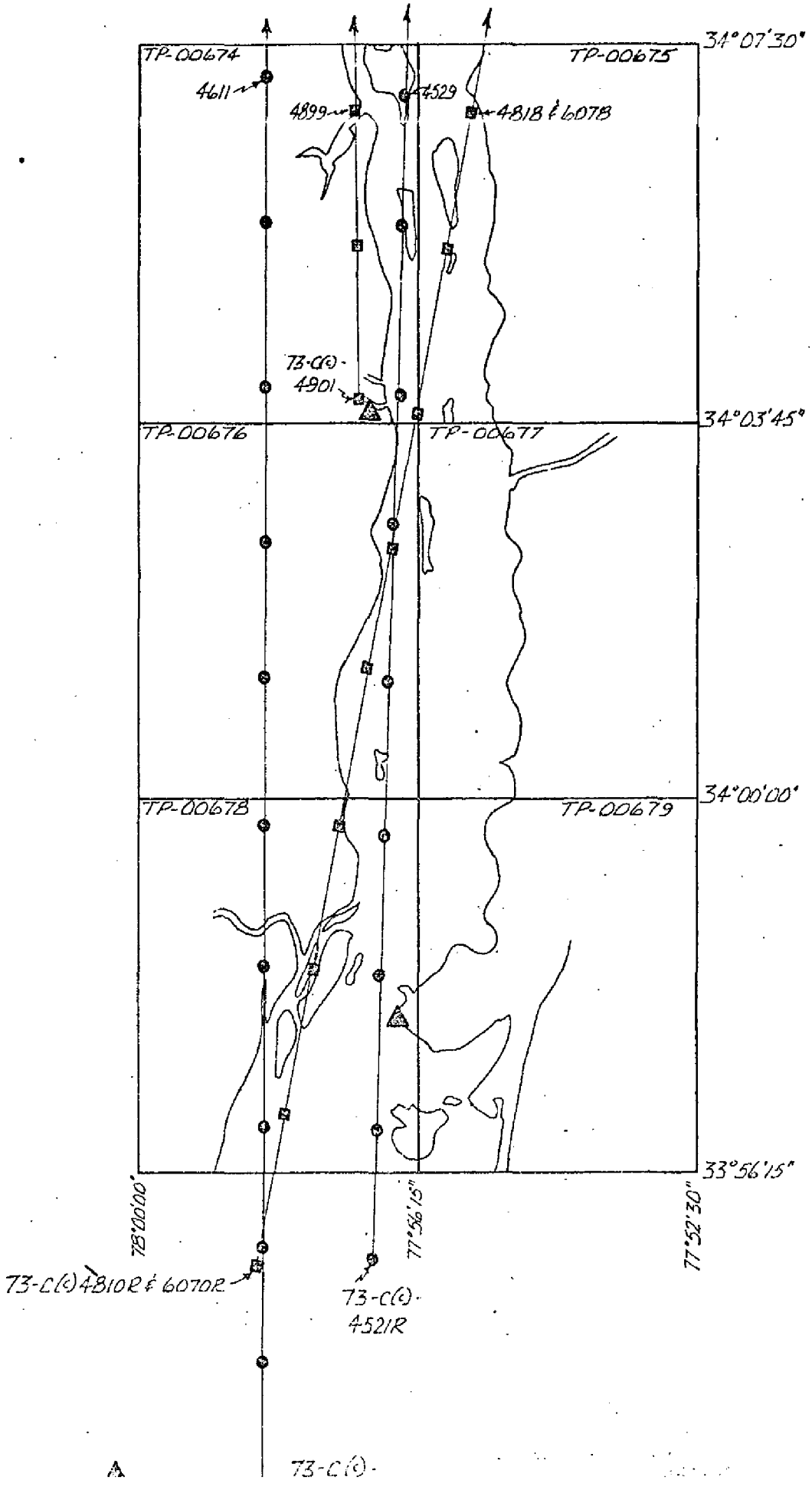
25. Photography

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

Submitted by,
Michael L. McGinley

Approved by:
John D. Perrow, Jr.
Chief, Aerotriangulation Section


73-C(c)-4890R
73-C(c)-4620R
73-C(c)-4538R
34°18'45"
TP-00669
TP-00670
68-S(c)-7260
68-S(c)-7258
34°15'00"
JOB CM-7218
Lower Cape Fear River
North Carolina
TP-00671
34°11'15"
TP-00673
73-C(c)-4820R
4612
4898
4819R & 73-C(c)-6079R
4530
TP-00672
34°07'30"
78°00'00"
77°56'15"
77°52'30"


TP-00674
TP-00675
TP-00676
TP-00677
TP-00678
TP-00679
4611
4899
4529
4818 & 6078
73-C(c)-4901
34°07'30"
34°03'45"
34°00'00"
33°56'15"
78°00'00"
77°56'15"
77°52'30"
73-C(c)-4810R & 6070R
73-C(c)-4521R
A
73-C(c)-

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.

Photogrammetric Plot Report
Job CM-7219
Cape Fear - Cape Lookout, North Carolina
Part II
March 21, 1973

21. Area Covered

The area covered in this report extends along the North Carolina shoreline from Cape Fear to the vicinity of New River Inlet. Included in this area are 11 T-sheets: TP-00692; TP-00696 thru TP-00705; all are at 1:20,000 scale.

22. Method

Two strips of 1:40,000 color photography were bridged on the Zeiss C-8 stereoplanigraph and adjusted by the IBM computer. The two strips were used to obtain pass point positions for the models and to determine the scale ratio for strips #4, #5, and #6.

Compilation points were positioned on strip #5 to set photos 72E(c) 6756 thru 6760.

Strip #1 (72E(c) 6722 thru 6739) was adjusted on four field identified triangulation stations with five office identified stations as checks.

Strip #2 (72E(c) 6706 thru 6720) was adjusted on five triangulation stations, three tie points and three triangulation stations were used as checks. All horizontal tie points were averaged. T-sheets were ruled on North Carolina plane coordinates and plotted on the Coradomat.

23. Adequacy of Control

Horizontal control complied with project instruction and held within the National Map Accuracy Standard.

24. Supplemental Data

All vertical control needed for adjustment was taken from USGS quadrangles and are approximate mean sea level. The vertical points obtained by bridging are not necessarily true values.

25. Photography

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

Respectfully submitted
James E. Schad
James E. Schad

Approved by:
John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

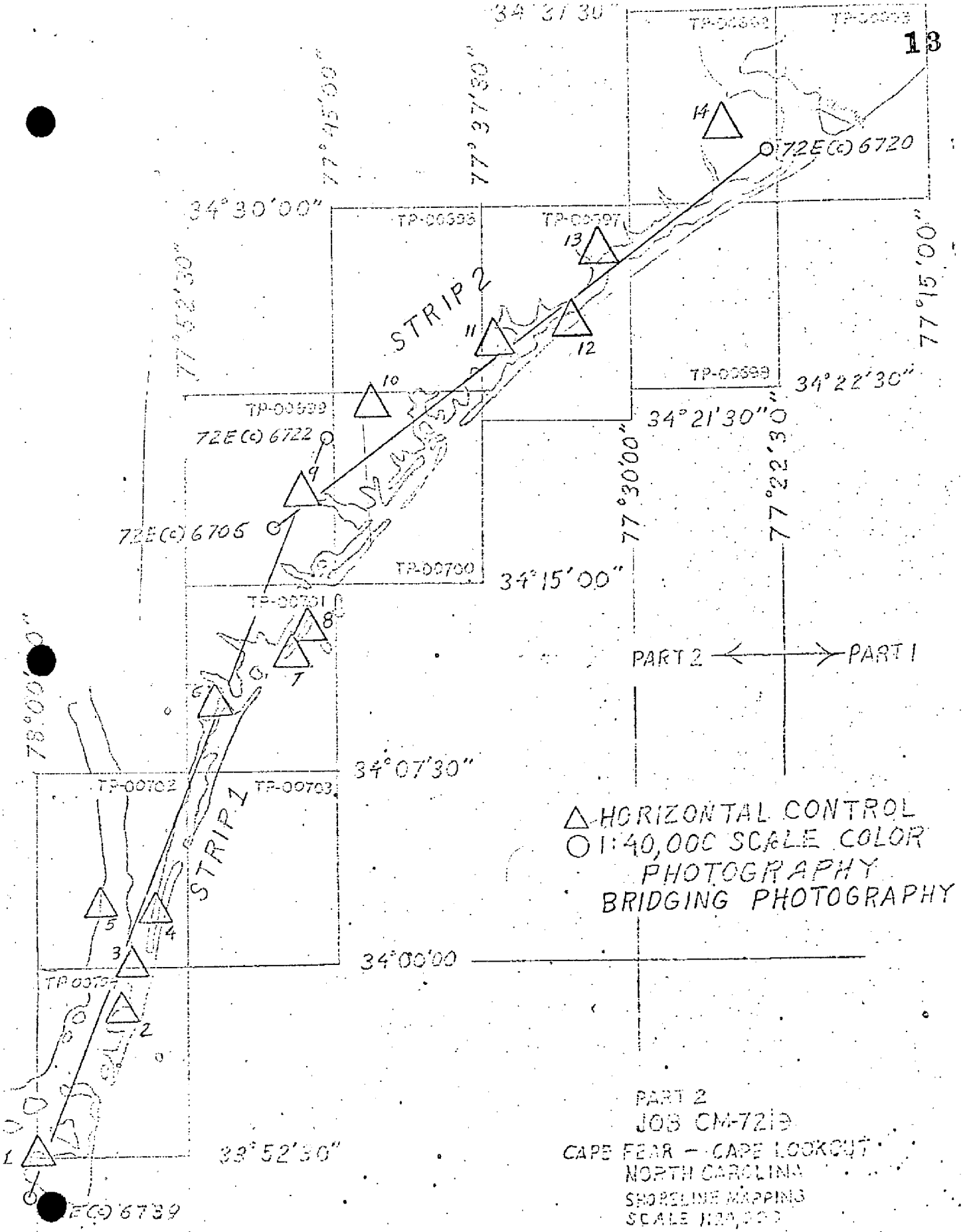
Notes to Compiler
Job CM-7219
Cape Fear - Cape Lookout, North Carolina

The shoreline area from the vicinity of Mason Inlet to New Topsoil Inlet (TP-00700) must be compiled from strip #5 (72E(c)6756 thru 6760) either by setting the models or by graphic methods. In order to control this area, "900" series points were determined from bridging strip #2.

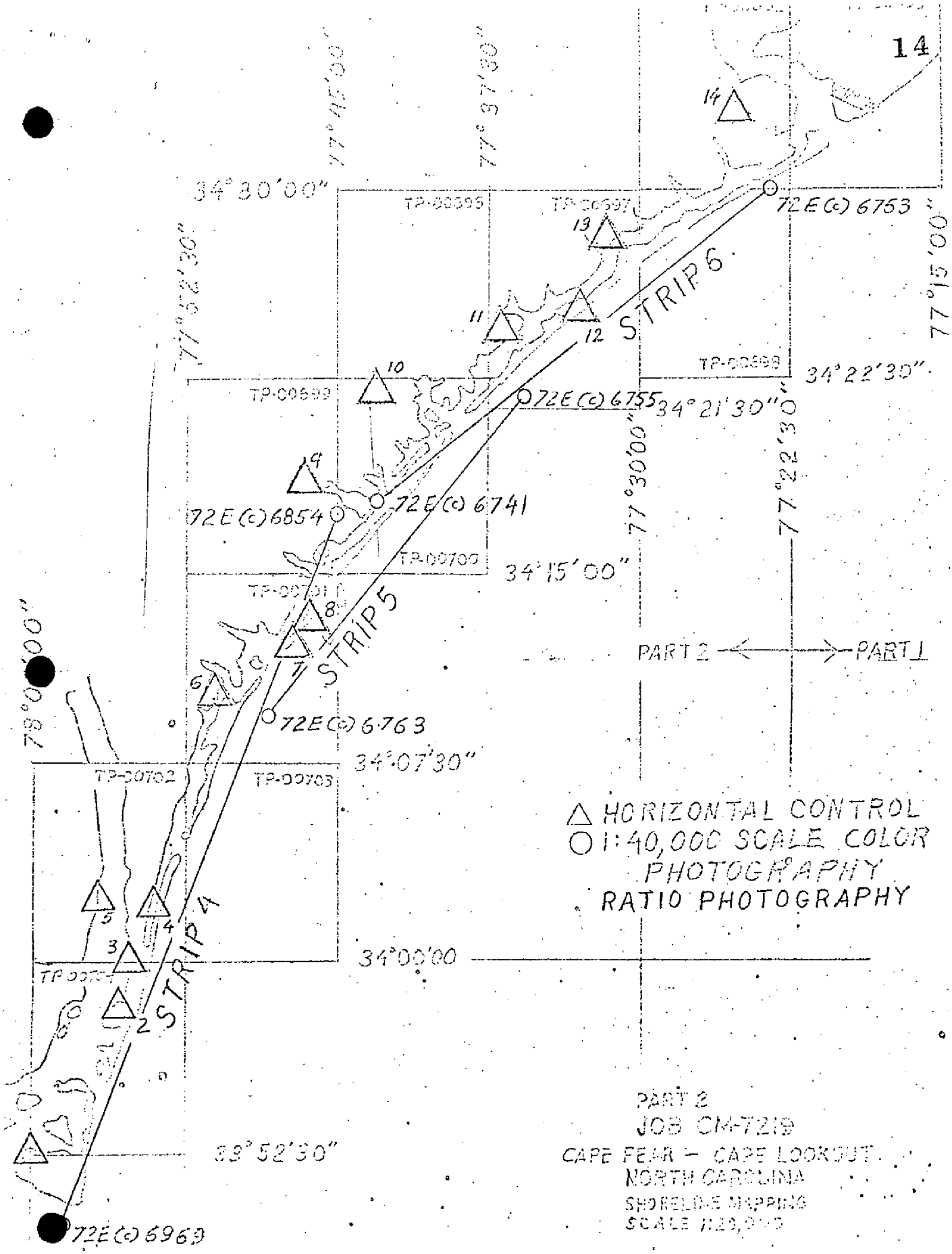
Beach cross section points, which were field identified on black/white contact print, have been horizontally positioned from bridging strips #1 and #2 and are identified with "400" series numbers.

	Photo number	Field number
Strip # 1	25401	01-02 (68E 3232)
	25400	03-03 (68E 3232)
	26400	01-01 (68E 3419)
	31400	02-01 (68E 3428)
Strip #2	10400	00-01 (68E 3244)
	14400	97-01 (68E 3249)
	16400	97-02 (68E 3252)
	18400	98-02 (68E 3270)
	19400	98-01 (68E 3272)

Ratios of strips #4, 5 and 6 were ariered. APP



PART 2
JOB CM-7219
CAPE FEAR – CAPE LOOKOUT
NORTH CAROLINA
SHORELINE MAPPING
SCALE 1:24,000



PART 2
JOB CM-721B
CAPE FEAR – CAPE LOOKOUT
NORTH CAROLINA
SHORELINE MAPPING
SCALE 1:20,000

JOB CM-7219

KEY TO HORIZONTAL CONTROL
USE FOR BRIDGING.

1. BALD HEAD LIGHTHOUSE, 1851
2. FEDERAL POINT, 1913
3. KURE BEACH W.T., 1913
4. CAROLINA BEACH MUN. W.T., 1968
5. RUINS, 1917
6. MASON, 1918
7. WRIGHTSVILLE BEACH SOUTH MUN. W.T., 1962
8. WRIGHTSVILLE BEACH NORTH MUN. W.T., 1962
9. KIRKLAND, 1932
10. HAMPSTEAD 2, 1947
11. ATKINSON, 1914
12. SEARS LANDING, TANK 1943
13. BETHEA, 1932
14. GRANT, 1932

COMPILATION REPORT

TP-00681

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter using the 1:40,000 scale color photography.

32. CONTROL

See the CM-7219 Photogrammetric Plot Report, Part II dated March 21, 1973 and the Photogrammetric Plot Report, for CM-7218, 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 line was graphically delineated from the "tide coordinated" photographs. See Form 76-36b.

36. OFFSHORE DETAILS

None

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 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. Army Map Service Quadrangle: SNOW MARSH, NORTH CAROLINA, 1946, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Charts: No. 11247(426) scale 1:40,000, 13th edition, dated April 20, 1974 and 1235, 9th edition, dated May 1, 1971, scale 1:80,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:
Albert C. Rauck Jr.
for Brad Foltz
Cartographic Aid, April 13, 1973

Approved:
Albert C. Rauck Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT

TP-00681

FIELD EDIT

Field edit adequate - all questions were answered. Field editor confirmed loss of triangulation station CORNCAKE, 1962.

Platforms at approximately 33° 52' 55", 77° 59' 50" and 33° 53' 45", 77° 57' 55", were located by compiler on 1972 photographs 6737 and 6738 and transferred to manuscript. Piling and dredging range markers were located by the field editor on the film ozalid - these positions were transferred to the manuscript by the compiler.

The field editor supplied data for locating 6 pilings near the Horseshoe Shoal Light; the pilings had already been delineated when additional detail was applied to the northwest corner of the sheet in 1974, but the field edit was used as a position check. (See page 27 of field edit report.)

The two (2) Cape Fear River-Bald Head Shoal Lights in the southwest corner of the sheet were originally compiled as non-floating aids only, but they were found to be triangulation stations as well; the triangles and station names were added by the compiler.

Shoreline changes were made in accordance with field edit measurements from fixed, identifiable positions to the MHW line. (See pages 23-24 of field edit report)

MLW data was added, during application of field edit, by use of 1973 low water photography. Most pass points could not be accurately transferred from the 1972 photographs used in original compilation, and the MLW lines were applied primarily by holding detail as closely as possible (photo scale was fairly good). MHW in the Corncake Inlet vicinity was revised by use of 1973 photography.

J. Desch
4/2/75

The shoreline was recompiled from 1973 MHW photography. See Item #1, Form 76-36b.

B. Barnes
6/28/76

2 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00681

Bald Head Creek

Bay Beach

Bay Creek

Bowensville Creek

Burriss Creek

Buzzard Bay

Cape Creek

Cape Fear River

Cedar Creek

Deep Creek

East Beach

False Channel

Fishing Creek

Middle Creek

Muddy Slough

New Inlet

Onslow Bay

Price Creek

Shellbed Creek

Shellbed Island

Smith Island

Still Creek

Striking Island

The Rocks

The Thorofare

Approved by

Chas. E. Harrington

Staff Geographer--C51x2

FORM C&GS-1002 (9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-P-00681

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
A.L.S.	A.L.S.	A.L.S.	A.L.S.

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
A.L.S.	N.A.	XX

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
N.A.			

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
			XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
A.L.S.	XX	A.L.S.	A.L.S.

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
A.L.S.	N.A.	N.A.

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
N.A.	N.A.	N.A.	XX

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
XX	XX	XX	XX

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
N.A.	N.A.

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
A.L.S.	A.L.S.	A.L.S.

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
A.L.S.	A.L.S.	XX	A.L.S.

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
A.L. Shands 4/13/73	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	SUPERVISOR
Checked by F.P. Margiotta 5/75 J. Desch March, 1975	Albert C. Rauck, Jr.

43. REMARKS

Field edit applied from field edit paper and film ozalids and photographs 72 E (c) 6738, 6737.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

Photo Party 62
P.O. Box 3044
Wilmington, N.C.

Date: 12 Dec. 1973

Reply to Attn of: Chief, Photo Party 62

Subject: Field Edit Report
TP - 00681
Corncake Inlet

To: CAM 521 Coastal Mapping Compilation Section

51. Methods

All deletions, additions, corrections and answers to office questions are referred to on the "FIELD EDIT OZALID - Field Copy". All field edit writing is in purple ink, except that deletions are in green ink.

Heights of channel range lights were measured by tape from the waterline, and time of measurement is tabulated. Horizontal positions of channel range lights were verified. Horseshoe Shoal Channel Rear Range Light and various dredging range markers were located by intersection, see attachments.

MHWL measurements were made with a tape from hydrographic control stations, see attachments.

Field edit in the marsh (Buzzard Bay) was done from a boat.

52. Accuracy of compilation

The compilation will be complete and adequate when field edit information is included.

53. Map accuracy

No accuracy tests were made.

54. Recommendations

It is recommended that field edit questions in large tidal marshes be limited to those absolutely necessary for completion of nautical charts. For example, the questions about type of bottom (sand or mud?) in the marsh between The Thorofare and Bay Beach seem of minimal importance. These tidal marshes are a difficult terrain in which to work and are ecologically fragile.

55. Examination of proof copy

Mr. Jerry R. Mitchell of Wm. F. Freeman Associates has done a great deal of land surveying in this area. His mailing address and phone number follow: Mr. Jerry R. Mitchell, RLS
Wm. F. Freeman Associates
P.O. Box 2103
High Point, N.C. 27261

Phone: 885-4031

56. Field editors

Field edit of this manuscript was done by Lt(jg) R. David Black, Lt(jg) George W. Jammerson, Mr. Joel J. Marin and Mr. Terrance G. Jennison, all of Photo Party 62. Work was supervised by Mr. Robert S. Tibbetts, Chief Photo Party 62. If there are any questions concerning this field edit, please contact the Chief, Photo Party 62 at the address above, or phone FTS 919-763-9544 or commercial 919-763-9971 Ext. 544.

R. David Black

R. David Black
Lt.(jg) NOAA

orig to charts
5/9/75

NOAA FORM 76-40
(8-74)

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

Replaces C&GS Form 567.

NONFLOATING AIDS [redacted] FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

[XX] TO BE CHARTED
[ ] TO BE REVISED
[ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC- Norfolk, Va.	North Carolina	Lower Cape Fear River	Mar.1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
437	CM-7218	TP-00681	N.A.1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	Horseshoe Shoal Channel Range Rear Light	33-55	53.78 1657	77-58	11.26 289	72E(C)6737 Oct.20,1972	F-3-6-L Oct.1973	426 1235
LIGHT	Cape Fear River Bald Head Shoal Channel Range Front Light.(Bald Head Shoal Range Front Light,1962)	33-53	00.404 12.4	77-59	47.001 1207.8	72E(C)6738 Oct.20,1972	Triang. Rec. Nov.1973	" "
LIGHT	(Bald Head Shoal Channel Range Rear Light,1962)	33-53	45.315 1396.2	77-58	55.991 1438.6	" "	" "	" "

23

REVIEW REPORT TP-00681

SHORELINE

June 1976

61. GENERAL STATEMENT:

See Summary, which is page six of this Descriptive Report.

Project Instructions for Job CM-7218, Part I, dated Feb. 27, 1973 state that hydro support photographs should be processed. Since Del Norte was used to fix positions, hydro support photos were not required and were not processed.

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 based 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-8196, scale 1:20,000, dated 1944. Significant differences are shown in blue on the comparison print. In the area compared, TP-00681 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.G.S. Quadrangle KURE BEACH,

N.C., 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 verified smooth sheet H-9398(PE-20-3-73), scale 1:20,000, dated 1973 and the preliminary boat sheet H-9489(AHP-10-7-74), scale 1:10,000, dated 1974. The high water line on the TP sheet was moved from the shoreline as shown on the hydro sheet. This was a result of "tide coordinated" photography being taken of this area in October and November 1973. The shoreline was revised using this photography. This 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 1976. Significant differences are shown in red on the comparison print.

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:

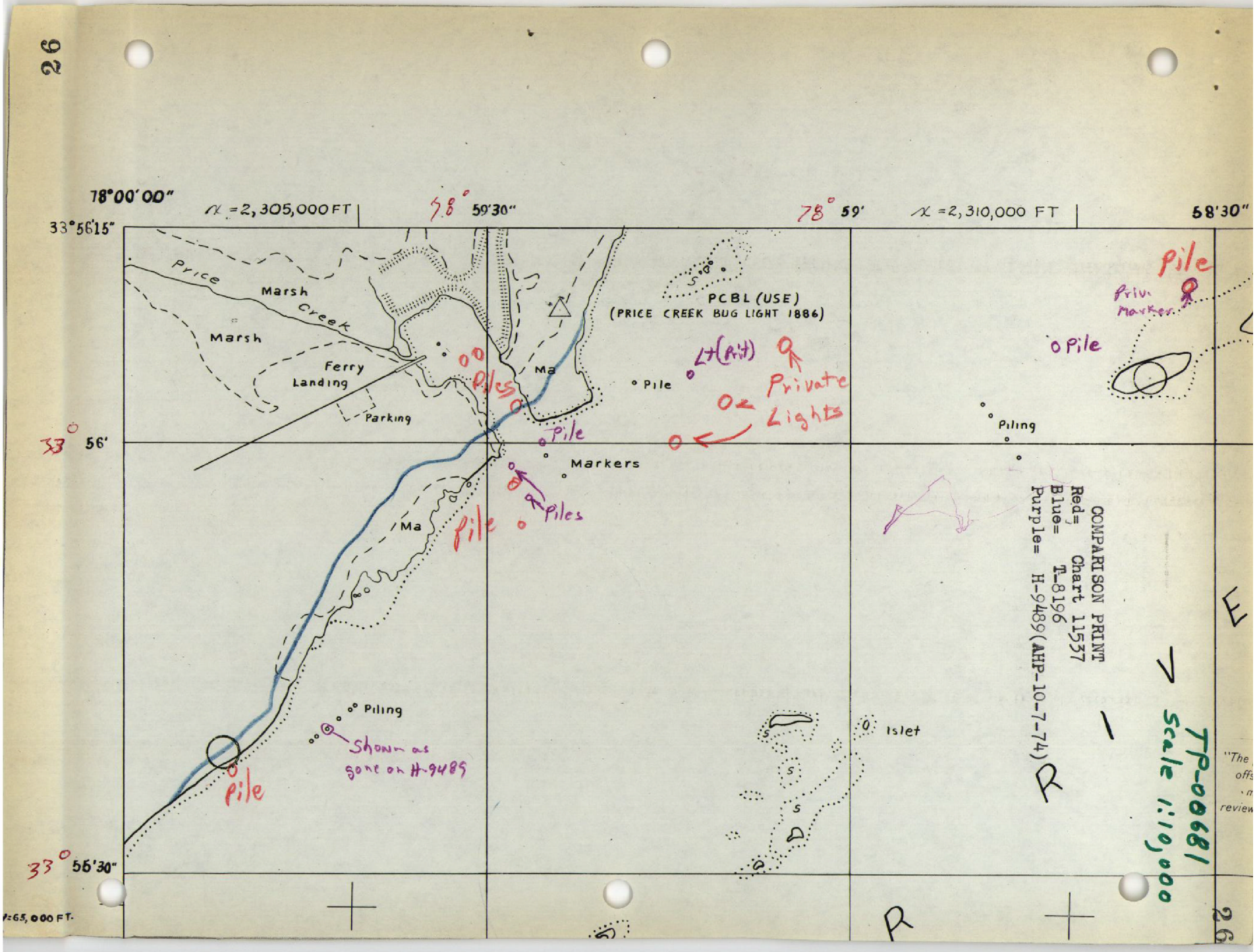
Joseph W. Vonasek

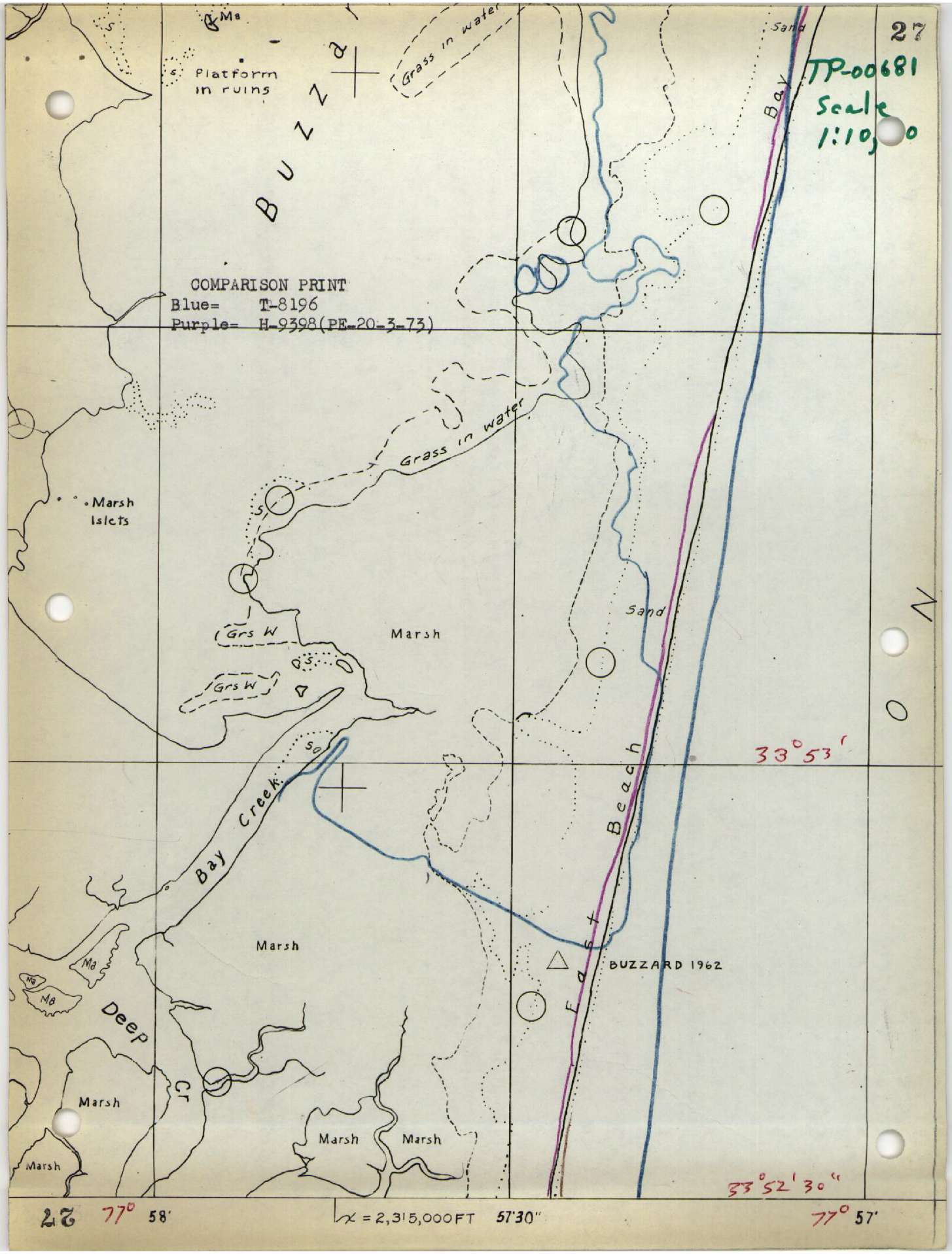
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

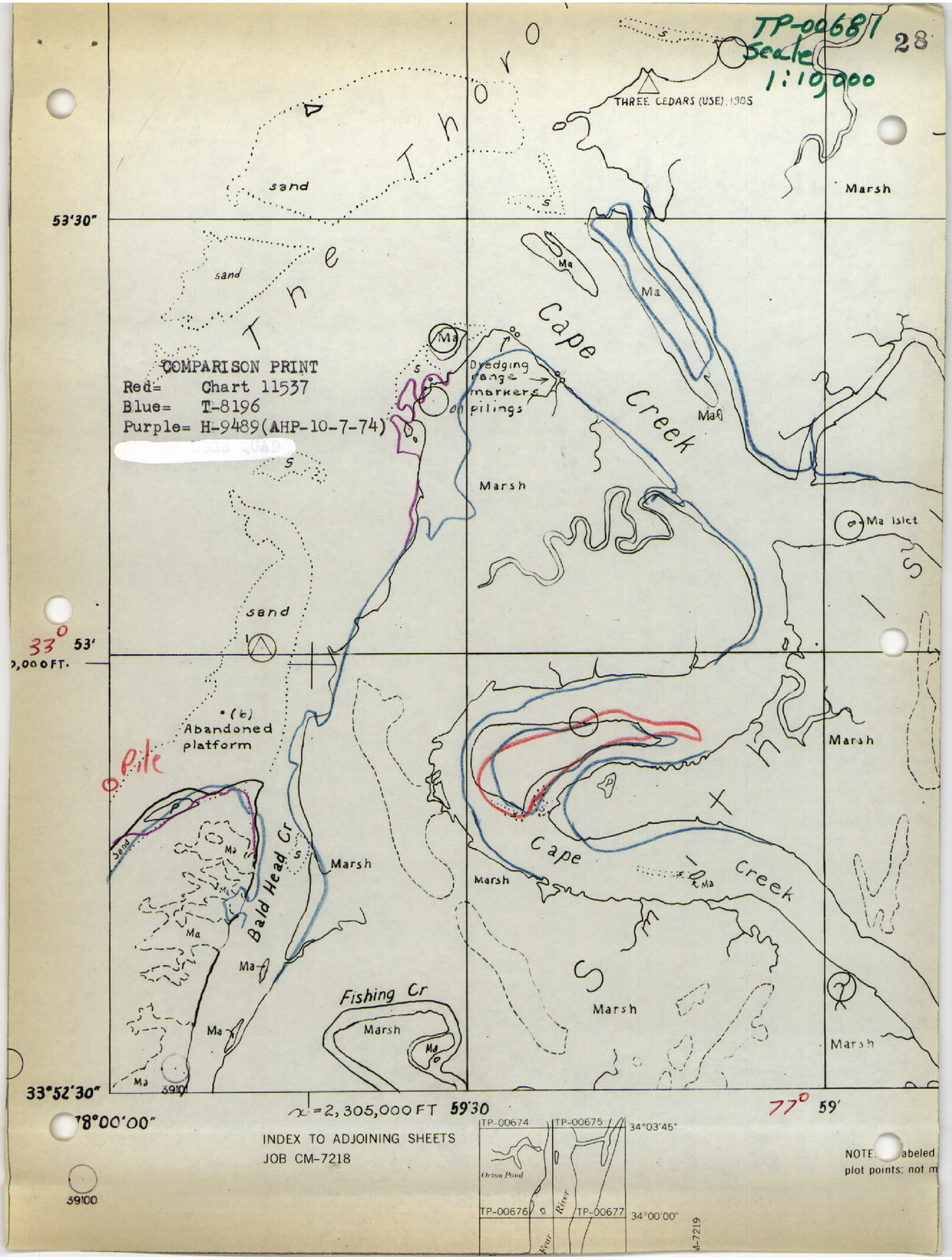
Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

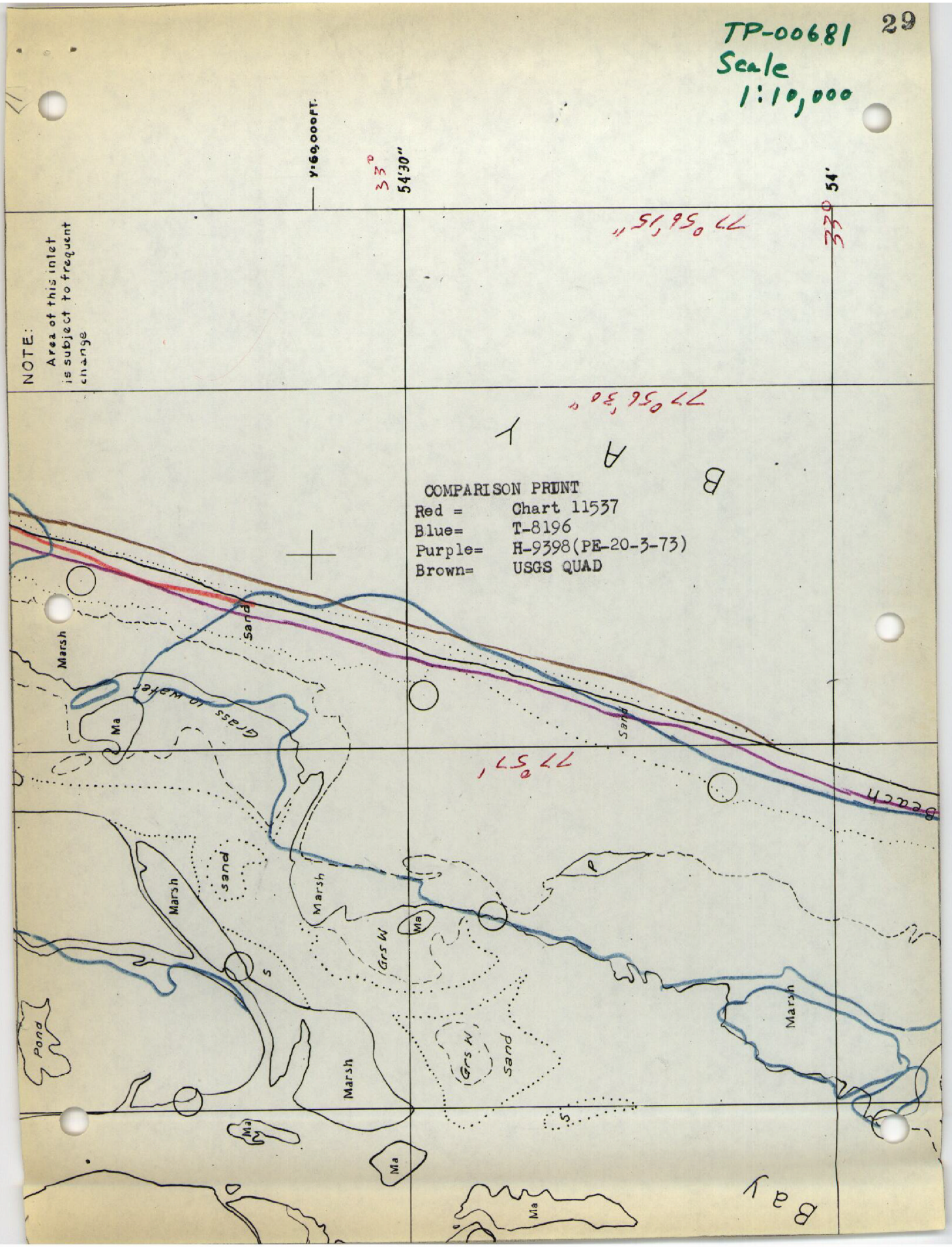

26
78°00'00"
x = 2,305,000 FT
78° 59'30"
78° 59'
x = 2,310,000 FT
58'30"
33°56'15"
33° 56'
33° 55'30"
Price
Marsh
Creek
Marsh
Ferry
Landing
Parking
Ma
Ma
Pile
Piles
Pile
Markers
Piles
Pile
Piling
Shown as
gone on H-9489
Pile
PCBL (USE)
(PRICE CREEK BUG LIGHT 1886)
Lt(R+W)
Private
Lights
Pile
Piling
Pile
Priv.
Marker
Islet
COMPARISON PRINT
Red= Chart 11537
Blue= T-8196
Purple= H-9489(AHP-10-7-74)
TP-00681
Scale 1:10,000
1
E
26
"The
offs
review
1:65,000 FT.

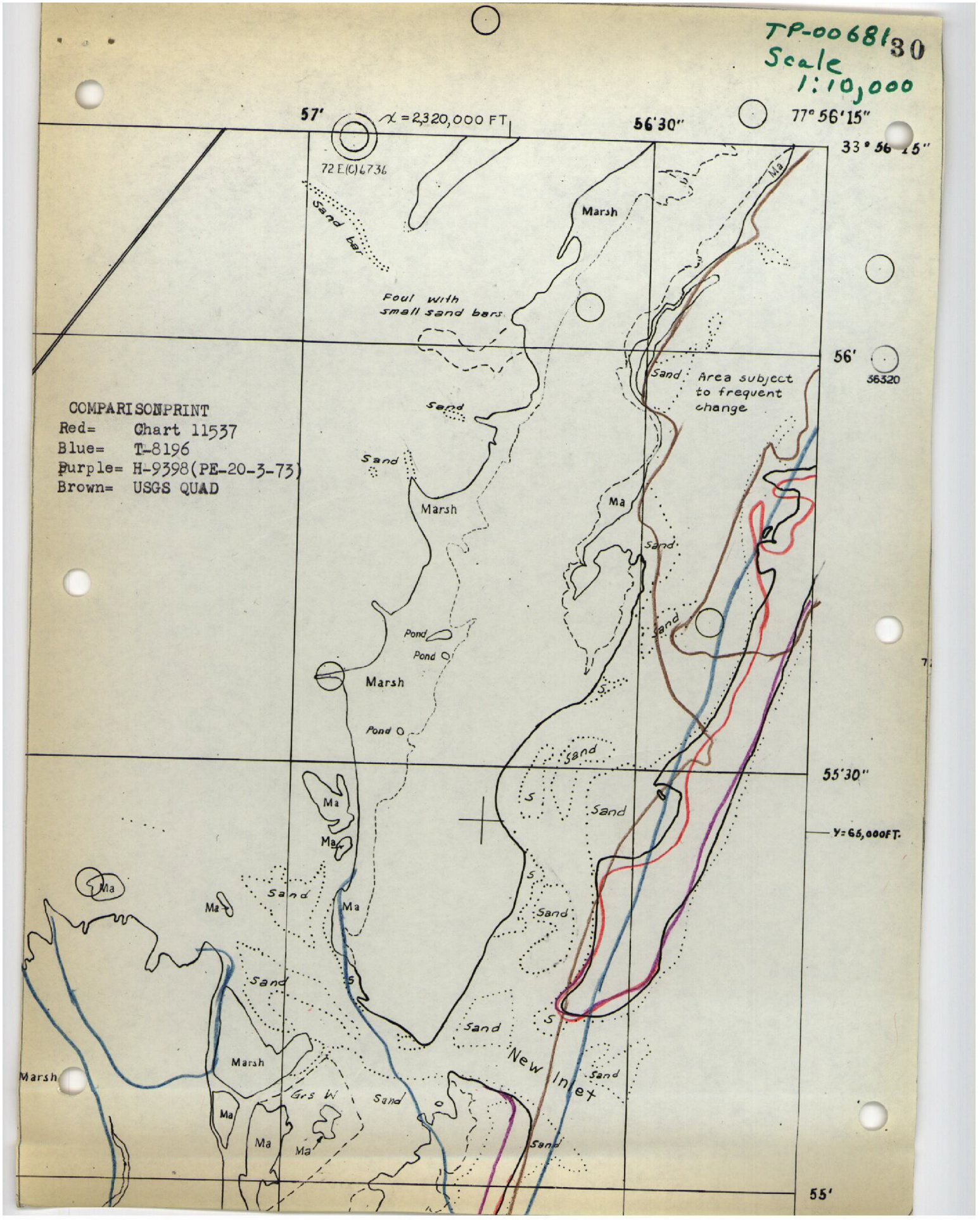

27
TP-00681
Scale
1:10,000
COMPARISON PRINT
Blue= T-8196
Purple= H-9398(PE-20-3-73)
Platform in ruins
Grass in water
Grass in water
Marsh Islets
Grs W
Grs W
Marsh
Sand
Sand
Bay
Bay Creek
Beach
East
BUZZARD 1962
Marsh
Deep Cr
Marsh
Marsh
Marsh
Marsh
33°53'
33°52'30"
27
77° 58'
X = 2,315,000FT 57'30"
77° 57'


TP-00681
Scale 1:10,000
28
THREE CEDARS (USE), 1905
sand
Marsh
53'30"
Cape Creek
Ma
Dredging range markers on pilings
COMPARISON PRINT
Red= Chart 11537
Blue= T-8196
Purple= H-9489(AHP-10-7-74)
Ma Islet
33° 53'
Abandoned platform
Pile
Bald Head Cr
Fishing Cr
33°52'30"
78°00'00"
59'30
77° 59'
INDEX TO ADJOINING SHEETS
JOB CM-7218
TP-00674
TP-00675
TP-00676
TP-00677
34°03'45"
34°00'00"
Orton Pond
River
Fear
59100

TP-00681

Scale 1:10,000




TP-00681 30
Scale
1:10,000
57'
X = 2,320,000 FT
56'30"
77° 56'15"
33° 56' 15"
72 E(C) 4736
Sand bar
Marsh
Foul with
small sand bars
Ma
56'
56320
Sand
Area subject
to frequent
change
COMPARISONPRINT
Red= Chart 11537
Blue= T-8196
Purple= H-9398(PE-20-3-73)
Brown= USGS QUAD
Marsh
Pond
Pond
Marsh
Pond
55'30"
Y=65,000FT.
Sand
New Inlet
Marsh
Grs W
55'

TP-00681
Scale 1:10,000

COMPARISON PRINT
Red= Chart 11537
Blue= T-8196
Purple= H-9489(AHP-10-7-74)

Middle Creek
Bowensville Cr
Marsh
Pond
Shellbed Island
Sand D
Islet
Islets
Platforms
Pilings
Subm. wreck
False Channel
Striking Island
marsh
33° 55"
33° 54'30"
Y=60,000 FT.
79°59'30"
84