

ORIGINAL

TP-00507

TP-00507

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-7305 Map No. TP-00507
Classification No. Edition No. 1

Field Edited Map

LOCALITY

State .. North Carolina
General Locality ... Cape Hatteras - Cape Lookout
Locality ... Cape Hatteras

1974 TO 1975

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00507
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"E" & RC-10"C"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X		ZONE Eastern MERIDIAN 75th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74E(C)(I) 4437 - 4442	Apr. 1, 74	13:29	1:30,000	3.1 ft. above MLW	
74E(C)(I) 4507 - 4519	Apr. 1, 74	15:48	1:15,000	2.8 ft. above MLW	
* 74C(C)(I) 8820 - 8823	Apr. 1, 74	14:20	1:60,000	+0.2 ft. of MHW	
* 74C(C)(I) 8881 - 8884	Apr. 3, 74	10:15	1:60,000	+0.2 ft. of MLW	

REMARKS

*Tide coordinated photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from the above listed tide coordinated photographs taken at mean high water.

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

The mean low water line was compiled graphically from the above listed tide coordinated photographs taken at mean low water.

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 PH-6309 T-12440	EAST No survey	SOUTH No survey	WEST TP-00508
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REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00507
HISTORY OF FIELD OPERATIONS1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Aug, 1974
2. HORIZONTAL CONTROL	R. Tibbetts	Aug, 1974
RECOVERED BY	None	
ESTABLISHED BY	R. Tibbetts	Aug, 1974
PRE-MARKED OR IDENTIFIED BY	NA	
3. VERTICAL CONTROL	NA	
RECOVERED BY	NA	
ESTABLISHED BY	NA	
PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	R. Tibbetts	Aug, 1974
RECOVERED (Triangulation Stations) BY	None	
LOCATED (Field Methods) BY	R. Tibbetts	Aug, 1974
IDENTIFIED BY		
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	None	
CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS	NA	
SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74E(C)(1)4441	CAPE HATTERAS LORAN MAST, 1949		
74E(C)(1)4511	KINNA, 1962		
74E(C)(1)4508	AVON, 1962		
74E(C)(1)4438	BILLY, 1962		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
74E(C)(1)4441	LORAN TOWER		

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

4 Forms 152 Control Station Identification
3 Forms 526 Recovery Note

TP-00507
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	April, 1975
2. HORIZONTAL CONTROL	RECOVERED BY R.E. Kesselring	April, 1975
	ESTABLISHED BY R.E. Kesselring	April, 1975
	PRE-MARKED OR IDENTIFIED BY R.S. Tibbetts	April, 1975
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 R.E. Kesselring	April, 1975
	LOCATED (Field Methods) BY R.E. Kesselring	April, 1975
	IDENTIFIED BY R.E. Kesselring	April, 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 NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74E(C)(1)8881	07-01 (Used to locate Nautical Landmark)		
3. PHOTO NUMBERS (Clarification of details)			
74E(C)(1)8881			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
74E(C)8881	TANK		
74E(C)8881	TOWER		
74E(C)8881	TOWER		
74E(C)8881	RADOME		
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
2 Form 76-40 Landmarks and Aids			
5 Form 76-53 Control Station Identification			
1 Field Edit Ozalid			
1 Field Edit Report			

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00507
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	Feb, 1975	Class III Manuscript	Mar 7, 1975	Mar 5, 1975
Field Edit applied. Compilation complete	Apr, 1975	Class I Manuscript	May 12, 1975	
Final Review	Oct, 1976		Feb. 8, 1977	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		May 15, 1975	Nonfloating Aid for Charts
1		May 15, 1975	Landmarks for Charts

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 15, 19753. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT 76-40 ☐ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~X56X~~ 76-40 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	

35°20'00"

QUARTER NATIONAL
WILDLIFE REFUGE

76°

35°15'00"

35°10'00"

TP-00509

TP-00508

35°05'00"

TP-00510

35°00'00"

TP-00511

TP-00512

34°50'00"

34°40'00"

TP-00513

34°40'00"

34°30'00"

JOBS JOB CM-7219

Official Mileage for Cost Account

Sheet No. Sq. Miles

TP-00507	8
TP-00508	4
TP-00509	4
TP-00510	6
TP-00511	3
TP-00512	6
TP-00513	4
TP-00514	6

Total 41

JOBS CM-7305
CAPE HATTERAS TO CAPE LOOKOUT
NORTH CAROLINA
SHORELINE MAPPING
SCALE 1:75,000

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00507 thru TP-00514

Project 7305 is the most northerly of several projects which make up the Southern Coastal Plains Expedition (SCOPE). It consists of eight (8) 1:20,000 scale manuscripts covering the outer coastline from Cape Hatteras south to a position just north of Cape Lookout. The original instructions dated November 6, 1974 Item 5.01 called for the compilation of "standard shoreline maps". None of the manuscripts in this project can be considered "standard shoreline maps" because in each case only the outer shoreline which borders the Atlantic Ocean was delineated.

To facilitate bridging and the setting of stereo models on the Wild B-8 stereo-plotter it was necessary to fly photography at 1:15,000, 1:20,000 and 1:30,000 scales because most of the area consists of a very narrow coastal band. In addition, 1:60,000 scale tide coordinated photography was flown at mean high and mean low water from which the mean high and mean low water lines were graphically delineated. (See Item 31 of the Compilation Report). All photography was taken with the RC-8 and RC-10 cameras using color infrared film.

Field work prior to compilation consisted of pre-marking and recovery of horizontal control for bridging and the observation and recording of tide data.

Bridging was done in the Rockville office using the Wild STK-1 in October, 1974. Ratio prints of the 1:60,000 scale tide coordinated photography were ordered at that time.

Compilation was done at the Atlantic Marine Center in April, 1975. Models of the bridging photography were set on the Wild B-8 stereo-plotter from which details above the MHWL were compiled and points common to the tide coordinated ratios were dropped. The MHWL and MLWL were delineated graphically using the tide coordinated ratios supplied for that purpose.

Field edit was accomplished during February through April, 1975.

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

The original stabilene base manuscripts, each 10 minutes in latitude and 10 minutes in longitude, were forwarded to the Rockville office for reproduction of registration copies.

No field inspection report was submitted.

PHOTOGRAMMETRIC PLOT REPORT
Job CM-7305
Cape Hatteras to Cape Lookout
North Carolina
October 1974

21. Area Covered

This project covers the shoreline from Cape Lookout to just north of Cape Hatteras. Included are eight T-sheets (TP-00507 thru TP-00514). All sheets are 1:20,000 scale.

22. Method

Five strips of color IR photography with varying scales 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 (1:15,000 scale) was adjusted on four field-identified triangulation stations with one additional triangulation station and two tie points as checks. Strip 2 (1:20,000 scale) was adjusted on five field-identified triangulation stations with three additional triangulation stations and six tie points as checks. Strip 3 (1:30,000 scale) was adjusted on three field-identified triangulation stations with one additional triangulation station and four tie points as checks. Strip 4 (1:30,000) was adjusted on four field-identified triangulation stations and one tie point with five additional triangulation stations and nine tie points as checks. Strip 5 (1:15,000 scale) was adjusted on three field identified triangulation stations and one tie point with seven additional triangulation stations and five tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:20,000 scale ratios were ordered.

23. Adequacy of Control

The horizontal control utilized in the adjustments 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.

Approved by:

John D. Perrow
John D. Perrow, Jr.

Chief, Aerotriangulation Section

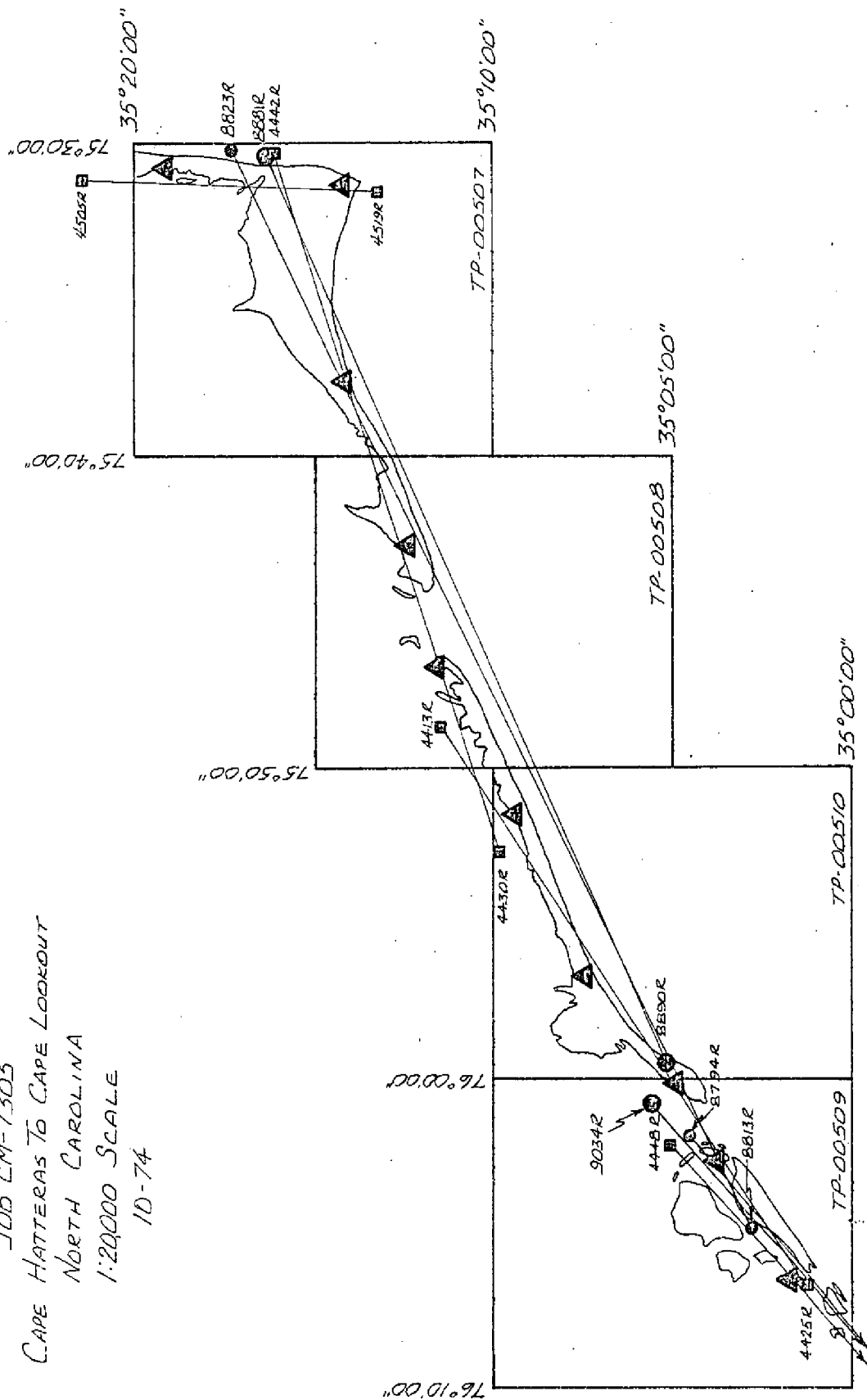
Submitted by:

Michael L. McGinley
Michael L. McGinley

Note to Compiler

Strip 3 could not be bridged beyond model 74-E(C)-4420/4421. Image points were selected for pass points on photo 4421 to be used for scaling and orientating the photo for delineating the point of land not covered in the bridge. The image points selected are pricked on contact print 4421. A ratio photo of 4421 was ordered at 1:20,000.

JOB CM-7305
 CAPE HATTERAS TO CAPE LOOKOUT
 NORTH CAROLINA
 1:20,000 SCALE
 10-74

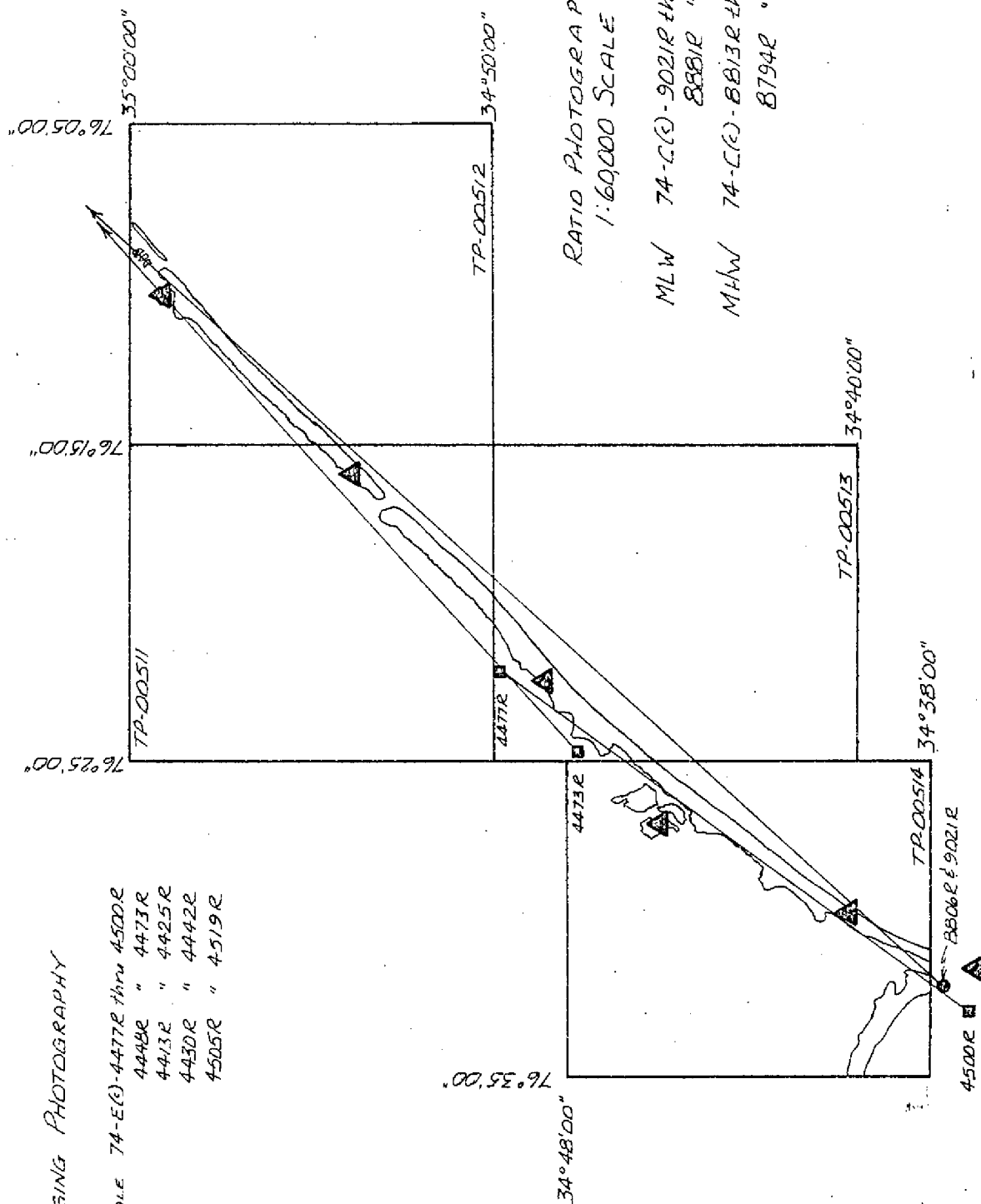


Strip	1:15000 Scale	74-E(-)-4477E thru 4500E
Strip 1	1:15000	" 4449E "
Strip 2	1:20000	" 4473R "
Strip 3	1:30000	" 4445R "
Strip 4	1:30000	" 4430R "
Strip 5	1:15000	" 4505R "

Strip	1:15000 Scale	74-E(-)-4477E thru 4500E
Strip 1	1:15000	" 4449E "
Strip 2	1:20000	" 4473R "
Strip 3	1:30000	" 4445R "
Strip 4	1:30000	" 4430R "
Strip 5	1:15000	" 4505R "

RATIO PHOTOGRAPHY
1:60,000 SCALE

MLW 74-C(5)-9021R thru 9034R
8881R " 8890R
MLW 74-C(5)-8813R thru 8823R
8794R " 8806R



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY		
					STATE	ZONE	ϕ	λ	Mapping Division	Coastal	
TP-00507	CM-7305										
		CAPE HATTERAS LIGHTHOUSE, 1933	G.P. Vol III P. 3087		X=		ϕ 35	15	17.02550	524.6 (1324.1)	
		CAPE HATTERAS LORAN MAST, 1949	G.P. Vol III P. 3094		Y=		λ 75	31	15.98005	404.0 (1112.8)	
		KINNA, 1962	G.P. Vol III P. 3090		X=		ϕ 35	14	25.92610	799.0 (1050.0)	
		BUXTON NATIONAL PARK SERVICE WATER TANK, 1962	G.P. Vol III P. 3094		Y=		λ 75	31	37.80026	955.8 (561.3)	
		JUNIPER, 1962	G.P. Vol III P. 3086		X=		ϕ 35	19	08.63263	266.0 (1583.1)	
		BILLY, 1962	G.P. Vol III P. 3085		Y=		λ 75	30	42.51299	1073.8 (441.7)	
		CREEDS HILL COAST GUARD TOWER, 1938	G.P. Vol III P. 581		X=		ϕ 35	15	04.93800	152.2 (1696.8)	
					Y=		λ 75	32	24.00230	606.7 (910.1)	
					X=		ϕ 35	14	22.30574	687.4 (1161.6)	
					Y=		λ 75	34	38.73455	979.4 (537.7)	
					X=		ϕ 35	13	48.84203	1505.2 (343.8)	
					Y=		λ 75	37	12.37570	312.9 (1204.1)	
					X=		ϕ 35	13	27.87	858.9 (990.1)	
					Y=		λ 75	38	28.82	728.8 (788.6)	
					X=		ϕ				
					Y=		λ				
					X=		ϕ				
					Y=		λ				
					X=		ϕ				
					Y=		λ				
COMPUTED BY	A. C. Rauck, Jr.			DATE	11/7/74	COMPUTATION CHECKED BY	F. Margiotta			DATE	11/8/74
LISTED BY				DATE		LISTING CHECKED BY				DATE	
HAND PLOTTING BY				DATE		HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00507

31. DELINEATION:

Except for the mean high water line and mean low water line, all details were delineated with the Wild B-8 stereoplotter using 1:15,000 and 1:30,000 scale photography. The mean high water line and mean low water line were delineated graphically using 1:60,000 scale tide coordinated infrared photography ratioed to map scale.

32. CONTROL

See the attached Photogrammetric Plot Report, dated October, 1974.

Points were dropped in the B-8 models common to the tide coordinated ratios to control the graphic delineation of the mean high water line and mean low water line.

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

The shoreline and all alongshore details were delineated by office interpretation of the photographs.

See Item 31 above.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS:

Copies of Form 76-40 were forwarded to the field editor for verification, deletion and confirmation.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, Item No. 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 Quadrangles: Hatteras, Cape Hatteras and Buxton, N. C., all scale 1:24,000, dated 1950, photorevised 1971.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey charts: 11555, scale 1:80,000, 21st edition, dated August 31, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne Desch
Joanne Desch
Cartographic Aid
February 24, 1975

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00507

FIELD EDIT:

Field edit was adequate.

22 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7305 (Cape Hatteras to Cape Lookout, N.C.)

TP-00507

Atlantic Ocean

Cape Hatteras

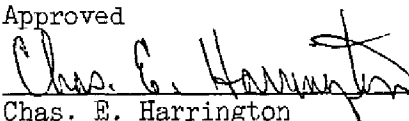
Cape Point

Hatteras Bight

Hatteras Island

Raleigh Bay

Approved

Chas. E. Harrington
Staff Geographer--C51x2

NOAA FORM 75-74 (2-74)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T-10363 TP-00507			
1. PROJECTION AND GRIDS FM	2. TITLE FM	3. MANUSCRIPT NUMBERS FM	4. MANUSCRIPT SIZE FM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY FM	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 FM	11. DETAIL POINTS FM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FM	13. LOW-WATER LINE FM	14. ROCKS, SHOALS, ETC. FM	15. BRIDGES FM
16. AIDS TO NAVIGATION FM	17. LANDMARKS FM	18. OTHER ALONGSHORE PHYSICAL FEATURES FM	19. OTHER ALONGSHORE CULTURAL FEATURES FM
PHYSICAL FEATURES			
20. WATER FEATURES FM		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 FM
CULTURAL FEATURES			
27. ROADS FM	28. BUILDINGS FM	29. RAILROADS FM	30. OTHER CULTURAL FEATURES FM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FM		34. JUNCTIONS FM	35. LEGIBILITY OF THE MANUSCRIPT FM
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT FM	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS FM
40. REVIEWER F. Margiotta March, 1975		SUPERVISOR, REVIEW SECTION OR UNIT A. 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 David Butler David P. Butler Reviewer: F. Margiotta May 6, 1975		SUPERVISOR A. C. Rauck, Jr.	
43. REMARKS See Form 76-36C (field edit operation) for field edit data sources.			

FIELD EDIT REPORT
CAPE LOOKOUT TO CAPE HATTERAS, N.C.
JOB CM 7305
MAP TP-00507

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled in accordance with instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. No significant changes in the shoreline were noted during field edit. A road, near Cape Hatteras Loran Mast, 1947 is actually just an abandoned road bed with chunks of asphalt lying on it. It is not used by vehicles. A campground and a landing field were overlooked near the western edge of the map. Attention was drawn to them on the field edit ozalid with appropriate cross-references.

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There are five landmarks on this map. One of them was compiled, the others were photoidentified. The compiled landmark was entered as "position verified" on the form 76-40 furnished the field editor by the compiling activity the other four were entered on Form 76-53, and Form 76-40, indicated on the field edit ozalid and cross-referenced to the proper photograph.

There is only one fixed aid within the compiled limits of this map, Cape Hatteras Light. It was entered as "triangulation recovered" on the Form 76-40 furnished by compilation.

57. Rocks, Reefs, and Shoals

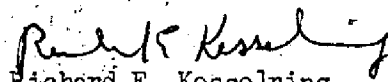
There are no rocks or reefs, as defined, within the compiled limits of this map. There is an extensive shoal extending southerly off of Cape Point called Diamond Shoals. This area was not compiled and the field editor decided to leave its delineation to the hydrographer.

58. Photography

Photography consisted of 1:20,000 ratio prints of color infrared photography. The prints were of poor resolution and made field identification difficult.

59. Disposition of Data

The field edit ozalid, the film ozalid, the photographs and all pertinent data were sent to the Director, Atlantic Marine Center for proper dissemination.



Richard E. Kesselring
Surveying Technician
Photo Party 62
April 17, 1975

To charts
5/12/75

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NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
<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.		STATE North Carolina		LOCALITY Cape Hatteras to Cape Lookout		DATE Apr. 1975	
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.				SURVEY NUMBER TP-00507		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		OFFICE	FIELD				
		D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters						
MICRO TOWER	Three legged, steel, obstruction lighted Ht. = 228 (235) OK	35-16	00.55	75-32	36.99	74E(C)(I) 8881 April 3, 1974	Pf Apr. 14, 1975 74E(C)(I) 8881		1232		
TANK	Double ellipsoidal, obstruction lighted Ht. = 128 (135) OK	35-15	58.08	75-32	01.78	"	"		"		
RADOME	Steel Ht. = 72 (78) OK	35-15	52.73	75-32	30.74	"	"		"		
TOWER	Three legged, steel, obstruction lighted Ht. = 425 (432) OK	35-14	43.51	75-32	03.76		"		"		
LORAN TOWER	(Cape Hatteras Loran Mast, 1949) OK	35-14	25.926	75-31	37.800	74E(C)(I) 4517 April 1, 1974	Triang. Rec. Apr. 14, 1975		"		
TANK	Double ellipsoidal, steel, Ht. = 89 (98) OK	35-13	59.93	75-37	19.10	74E(C)(I) 4438 April 1, 1974	V-Vis. Apr. 14, 1975		"		
					483						

4001 E. 41

REVIEW REPORT

TP-00507

SHORELINE

October 20, 1976

61. GENERAL STATEMENT:

See Summary which is Pages 6 and 6a of this Descriptive Report.

A comparison print showing differences noted in Paragraphs 62, 63, and 65 is included with the original of this report.

Several marsh areas, ditches and ponds at Cape Hatteras were delineated during final review to add to the completeness of the compilation. A portion of N.C. Route 12 running east-west across Cape Hatteras was deleted as it is outside the limits of compilation of this shoreline map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Topographic Manuscript T-8717 s/2, 1:10,000 scale, dated 1947, and Shoreline Manuscripts T-12440 and T-12442, each 1:20,000 scale dated 1965. Significant differences are noted on the comparison print in blue pencil.

In the area compared, TP-00507 supersedes the above mentioned surveys which are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Buxton, Cape Hatteras and Hatteras, N.C. dated 1950. All are 1:24,000 scale and were photorevised in 1970. Significant differences are noted on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. The contemporary hydrographic surveys were not available at the Atlantic Marine Center at the time of final review. This reviewer was informed by the Verification Branch, Atlantic Marine Center that these surveys do not include inshore soundings above the 14 foot depth. It was concluded, therefore, that this circumstance would not permit a meaningful comparison.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11555, 22nd edition, dated September 6, 1975, scale 1:80,000. Significant differences are noted on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Office Instructions CM-7305, dated November 6, 1974, except that it is not a standard shoreline map. (See first paragraph of Summary). This map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

A.L. Shands

A.L. Shands
Cartographer
October 20, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

W.K. Dargatzis

Chief, Photogrammetric Branch

James C. Cotton

Chief, Coastal Mapping Div.

$\lambda = 3,030,000$ FT

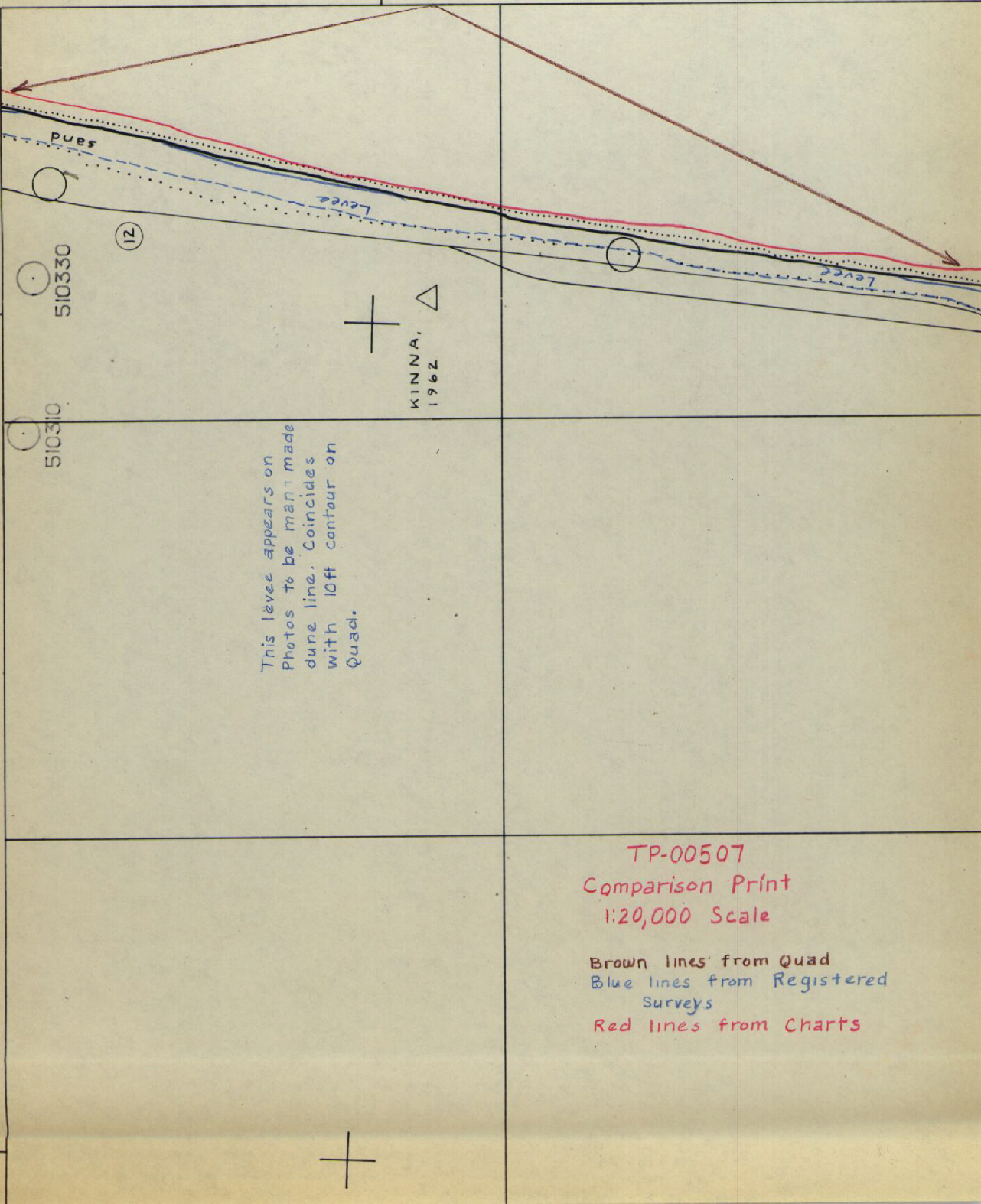
32'

31'

$\lambda = 3,040,000$ FT

75°30'00"

35°20'00"



$\gamma = 590,000$ FT

MHWL same on
chart and Quad

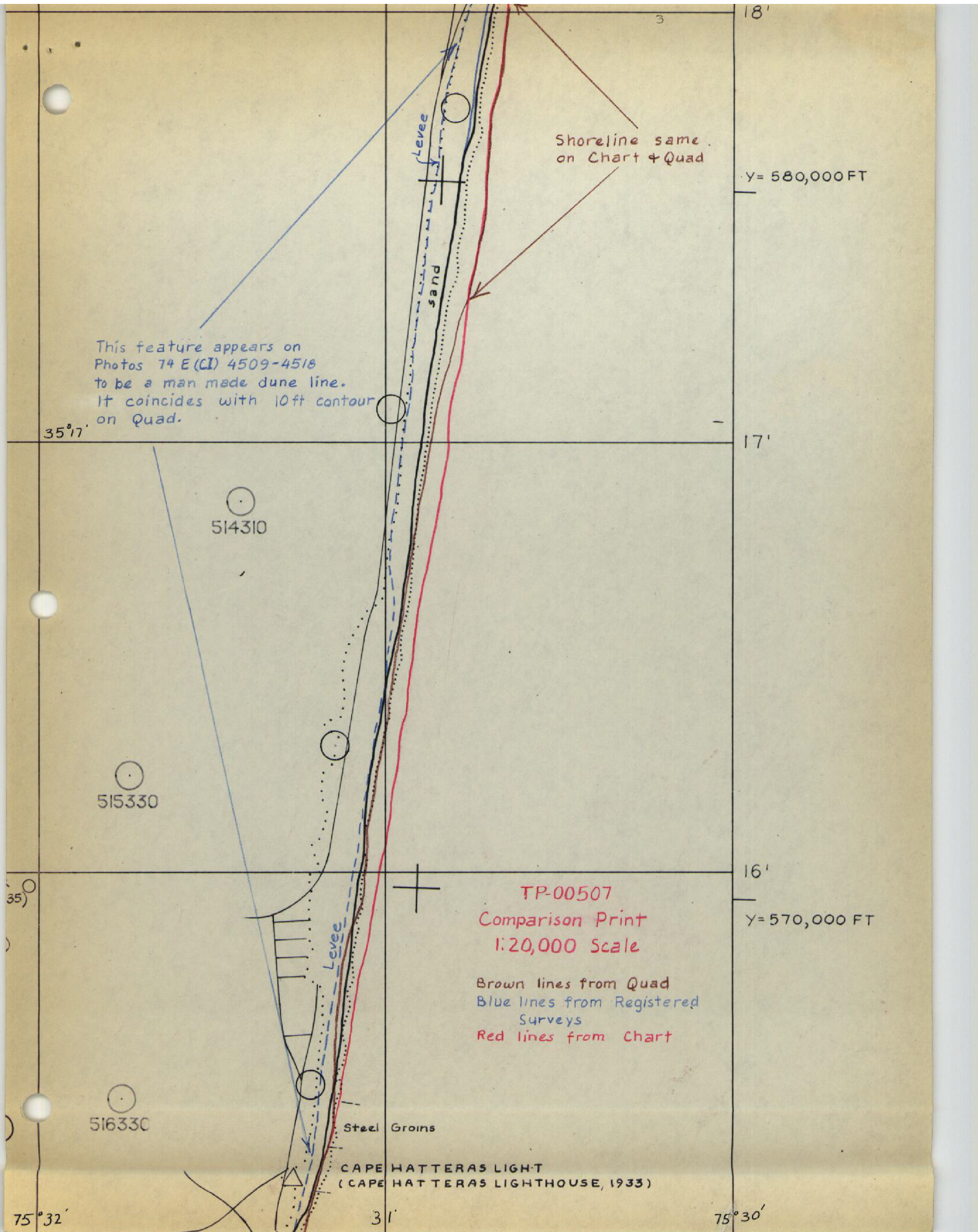
19'

This level appears on
Photos to be main made
dune line. Coincides
with 10ft contour on
Quad.

KINNA, Δ
1962

TP-00507
Comparison Print
1:20,000 Scale

Brown lines from Quad
Blue lines from Registered
Surveys
Red lines from Charts



This feature appears on
Photos 74 E (CI) 4509-4518
to be a man made dune line.
It coincides with 10ft contour
on Quad.

Shoreline same
on Chart + Quad

TP-00507
Comparison Print
1:20,000 Scale

Brown lines from Quad
Blue lines from Registered
Surveys
Red lines from Chart

Steel Groins

CAPE HATTERAS LIGHT
(CAPE HATTERAS LIGHTHOUSE, 1933)

Y=580,000 FT

Y=570,000 FT

BUXTON NATIONAL
SERVICE WATER TANK, 1962

35° 15'

517310 TOWER
(Steel) ht = 425 (432)

CAPE HATTERAS

CAPE HATTERAS
LORAN MAST, 1949

Campground

Trail

ditch

ditch

marsh

ditch

Sub pt A

marsh

P

P

Re (band)

Trail

Ma

Ma

P

Pond

sand

Pond

Cape Point

35° 13'

NOTE:

"The photogrammetric
on 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

75° 33'

75° 32'

TP-00507
Comparison Print
1:20,000 Scale

Brown lines from Quad
Blue lines from Registered
Surveys
Red lines from Chart

TP-00507
Comparison Print
1:20,000 Scale
Red lines from Chart

Examination of photos
74E(c) 4438 + 4439
does not reveal the
existence of marsh
here

△ JUNIPER, 1962

Tank

439330

Marsh

Campground

Pues

TANK (Steel)

ht: 89 (98)

△ BULLY, 1962

Field

Field

B I G H T

H A T T E R A S

Y
A
B

35°13'

75°35'

75°37'

35°15'

75°36'

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP
SURVEY NO. 00507

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]

2010-10-10