

TP - 00171

TP - 00171

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey <u>Shoreline</u>	
Job No. <u>PH-7004</u>	Map No. <u>TP-00171</u>
Classification No. Field Edited Map	Edition No. ....
<b>LOCALITY</b>	
State <u>Massachusetts</u>	
General Locality <u>Race Point To Chatham</u>	
Locality <u>Nauset Beach (South)</u>	
<hr/> 19 70 TO 19 72	
Alfred C. Holmes, Director, AMC	
<b>REGISTRY IN ARCHIVES</b>	
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 TF. <u>00171</u> MAP EDITION NO. ( ) MAP CLASS JOB PH. <u>7004</u>
<b>DESCRIPTIVE REPORT - DATA RECORD</b>			

PHOTOGRAMMETRIC OFFICE  Atlantic Marine Center-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  Alfred C. Holmes, Director, AMC		

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
December 3, 1970 March 5, 1971	August 12, 1970

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 MASS ZONE Mainland
5. SCALE 1:10,000	STATE ZONE

III. HISTORY OF OFFICE OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Stereoplanigraph	BY	J.D. Perrow, Jr.	Feb. 1971
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY CHECKED BY	P. Dempsey "	Mar. 5/71
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	L.O. Neterer, Jr. R. White Inapplicable Inapplicable	Apr. 4/71 Apr. 4/71
4. MANUSCRIPT DELINEATION  METHOD:  SCALE: 1:10,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	L.L. Graves B. Wilson Inapplicable Inapplicable L.L. Graves B. Wilson	Apr. 23/71 May 10/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	B. Wilson	" "
6. APPLICATION OF FIELD EDIT DATA	BY CHECKED BY	Susan Kumer R.R. White	Dec. 7/72 Dec. 8/72
7. COMPILATION SECTION REVIEW	BY	S. Kumer	Aug. 1/73
8. FINAL REVIEW	BY	C. Bishop	Aug. 1973
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	S. Blankenbaker	MAR. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. CATOR	JULY 1975

COMPILATION SOURCES TP-00171

1. COMPILATION PHOTOGRAPHY

CAMERA(S) <b>Wild RC-8 "L"</b>		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR <b>XX</b> (P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Atlantic	
				MERIDIAN	
				75th	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70-L-(c)-8330 thru 8334	Sept. 12/70	12:14 EST	1:20,000	2.4 ft. above MLW	
70-L-(c)-8340 thru 8345	Sept. 12/70	12:19 EST	1:20,000	1.9 ft. above MLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Air photo compilation  
Date of photos - Sept. 12, 1970

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

Air photo compilation  
Date of photography: Sept. 12, 1970

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-00170	EAST None	SOUTH No Contemporary Survey	WEST No Contemporary Survey
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REMARKS

HISTORY OF FIELD OPERATIONS TP-00171

<input checked="" type="checkbox"/> FIELD INSPECTION OPERATION <del>* Field inspection operation</del>		<input checked="" type="checkbox"/> FIELD EDIT OPERATION	
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J.K. Wilson	Sept. 1970
2. HORIZONTAL CONTROL	RECOVERED BY	E. Hartford	Sept. 10/70
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	E. Hartford	Sept. 10/70
3. VERTICAL CONTROL	RECOVERED BY	Inapplicable	
	ESTABLISHED BY	"	
	PRE-MARKED OR IDENTIFIED BY	"	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	W. Mottern	Oct. 3/72
	LOCATED (Field Methods) BY		
	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	CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		Inapplicable	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70-L-(c)-8200	Morris, 1938 <del>*</del>		
3. PHOTO NUMBERS (Clarification of details) 70-L-8333, 8334			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodetic Division)			
2 forms 76-40, 24 forms 526, 1 field edit ozalid, 1 field edit report.			



RECORD OF SURVEY USE TP-00171

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete Pending Field Edit	April/1970	Class III Manuscript		5/13/71
Field Edit Applied	Dec. 1972	Class I Manuscript		
Final Review	August 1973	CHART MAINT. PRINT	10-1-73	

II. LANDMARKS AND AIDS TO NAVIGATION

I. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		8/1/73	Landmarks for charting.
1		8/1/73	Aid to navigation for charting.

2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_  
 3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

III. FEDERAL RECORDS CENTER DATA

1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.  
 2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
 3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:  
 4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: MAR 10, 1975

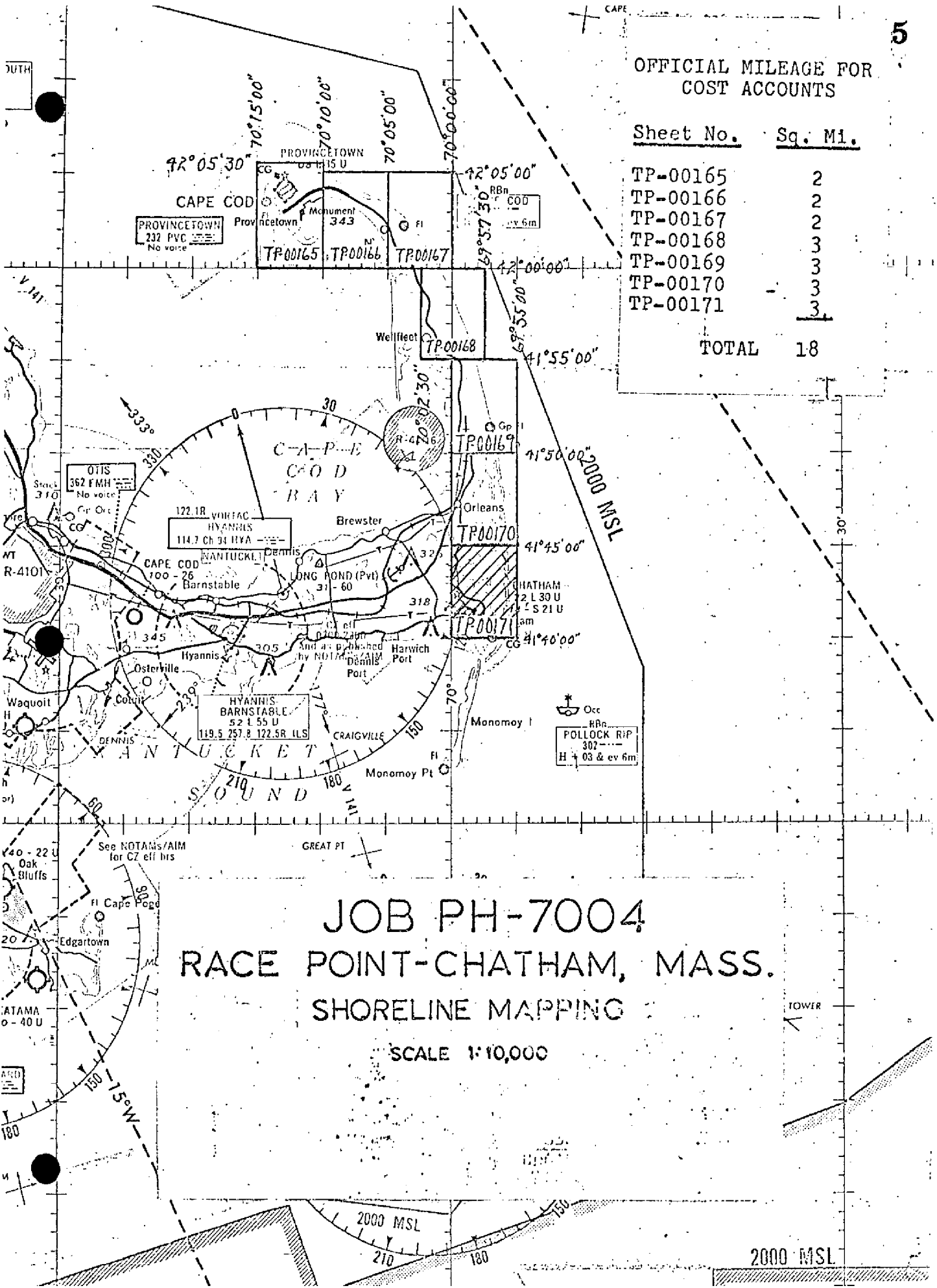
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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	

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Sq. Mi.

TP-00165	2
TP-00166	2
TP-00167	2
TP-00168	2
TP-00169	3
TP-00170	3
TP-00171	3
<b>TOTAL</b>	<b>18</b>



**JOB PH-7004**  
**RACE POINT-CHATHAM, MASS.**  
**SHORELINE MAPPING**

SCALE 1:10,000

2000 MSL

## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORTS TP-00165 THROUGH TP-00171

These 1:10,000 scale shoreline manuscripts comprise Project PH-7004, Cape Cod, Massachusetts. The shoreline on this project is mostly sandy beach along the Atlantic Ocean. The position of the mean high water line, the mean low water line, shoals close to shore and channel into Nauset Harbor are subject to continuous change. The job index in the lower left corner of each sheet shows the location of each map in the project.

The only field work preceding compilation was the identification of horizontal control necessary for bridging.

The C-8 Stereoplanigraph was used for bridging to provide control for compilation, using 1:15,000 and 1:20,000 scale color photography taken on September 12, 1970. Compilation was by Wild B-8 Plotter in the spring of 1971. Stable base copies of the map and ratio color prints of the photographs were furnished for hydro support.

Field edit was accomplished by an experienced photogrammetrist ~~in the summer of 1971~~ and in the fall of 1972.

Final review was done at the Atlantic Marine Center in July and August, 1973.

A cronaflex positive and a negative of the final reviewed manuscript were forwarded for record and registry.

## FIELD INSPECTION

TP-00171

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report  
Race Point - Chatham, Massachusetts  
Job PH-7004  
February 1971

21. Area Covered

The project covers part of Cape Cod, Massachusetts, from Race Point to Chatham. Included in the area are sheets TP-00165 thru TP-00171.

22. Method

Five bridges were run on the C-8 Stereoplanigraph to provide control for compilation, and ratio points for the offshore photography. All strips were adjusted on the IBM 1620. Strip # 1 (70-L(C)-8200 thru 8214) was adjusted on four triangulation stations with companion points, and four additional triangulation stations as checks. This adjustment did not give the best results, since it did not hold the two central points by approximately seven feet. However, the strip was balanced and other control points proved that the answers were the best that could be expected with a number of weak alongshore models. Strip # 2 (70-L(C)-8221 thru 8228) was adjusted on four triangulation stations with three additional stations and six tie points as checks. Strip # 3 (70-L(C)-8238 thru 8249) was adjusted on four triangulation stations with five stations and ten tie points as checks. Strip # 4 (70-L(C)-8232 thru 8236) was adjusted on five triangulation stations with four companion points and seven tie points as checks. Strip # 5 (70-L(C)-8276 thru 8281) was adjusted on five triangulation stations with two stations and eight tie points as checks. All triangulation stations, pass points and ratio points were prepared and plotted on the map manuscripts. Vertical adjustments of these strips are only approximate and should not be relied on for vertical control.

23. Adequacy of Control

All control was adequate and complied with project instructions. All stations held within National Map Accuracy.


24. Supplemental Data

Local GS quads were used to provide vertical elevations for adjustments.

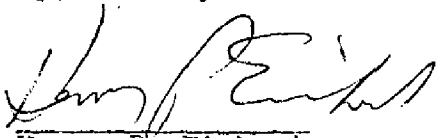
25. Photography

All photography was adequate as to overlap, definition and quality. Coverage by individual strips could have been changed to provide more land areas in the models.

Submitted by:

  
John D. Perrow, Jr.

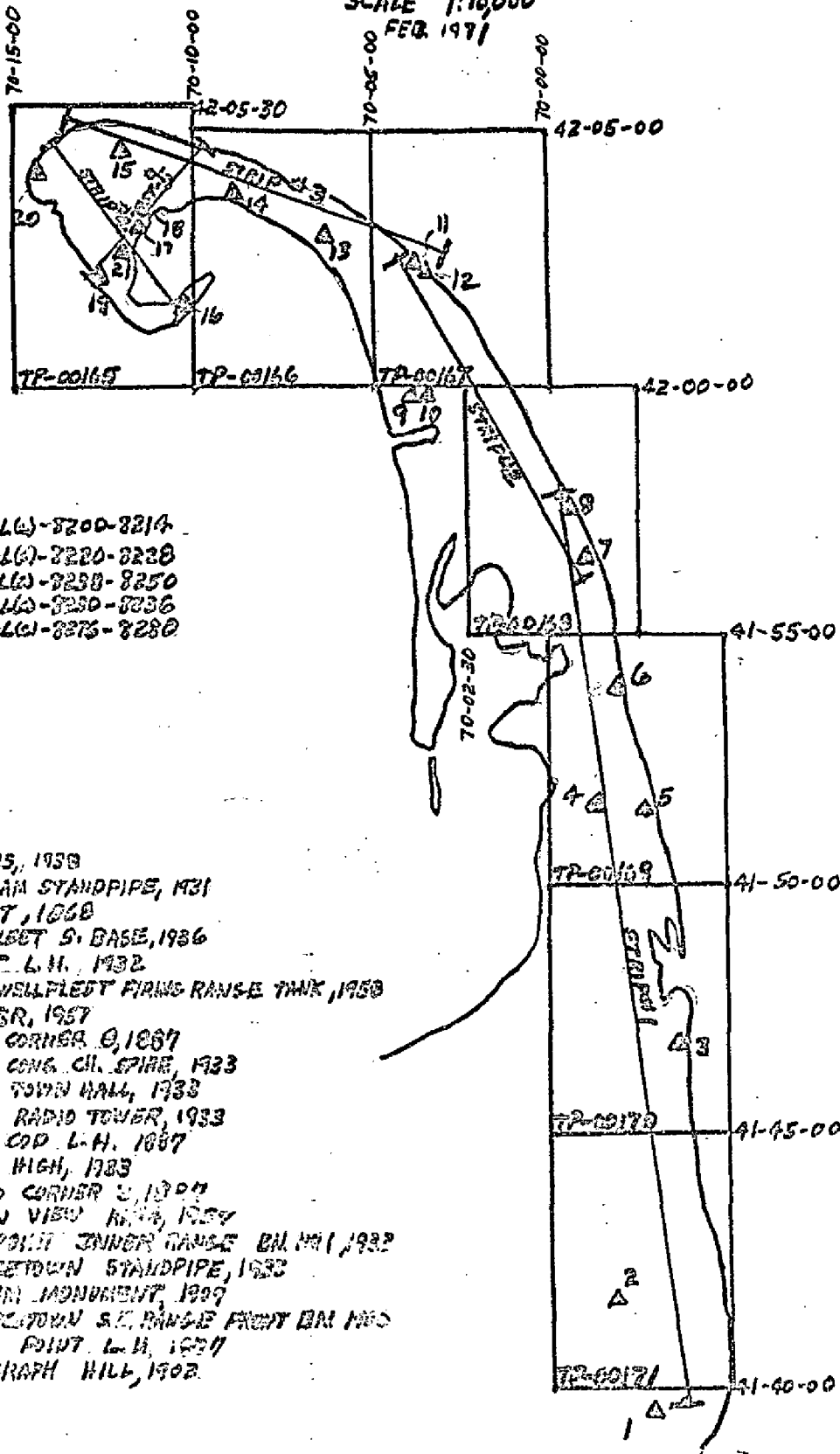
Approved by:

  
Henry P. Eichert  
Chief, Aerotriangulation Section

PH-7004  
RACE POINT - CHATHAM, MASS.

SCALE 1:10,000

FEB. 1971



- STRIP#1 70-L(6)-8200-8214
- STRIP#2 70-L(6)-8220-8228
- STRIP#3 70-L(6)-8230-8250
- STRIP#4 70-L(6)-8250-8236
- STRIP#5 70-L(6)-8275-8280

1. MORRIS, 1939
2. CHATHAM STANDPIPE, 1931
3. POCKET, 1868
4. WELLFLEET S. BASE, 1936
5. NAUSET L.H., 1932
6. CAMP WELLFLEET FIRING RANGE TRAIL, 1958
7. FRAZIER, 1957
8. TRURO CORNER S., 1867
9. TRURO CONC. CH. SPIRE, 1933
10. TRURO TOWN HALL, 1933
11. SOUTH RADIO TOWER, 1933
12. CAPE COD L.H., 1887
13. HEAD. HIGH, 1933
14. TRURO CORNER S., 1907
15. OCEAN VIEW RES., 1957
16. LONG POINT INNER GANSE BN. NO. 1, 1932
17. PROVINCETOWN STANDPIPE, 1933
18. PILGRIM MONUMENT, 1939
19. PROVINCETOWN S.E. GANSE FRONT BN. NO. 2
20. RACE POINT L.H., 1971
21. TELEGRAPH HILL, 1902

DESCRIPTIVE REPORT CONTROL RECORD

None

SCALE FACTOR

SCALE OF MAP 1:10,000

PROJECT NO. PH-7004

MAP T. TP-00171

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE (IN METERS (1 Ft. = 3048006 meter))		N.A. 1927 - DATUM
				FORWARD	(BACK)	
MORRIS, 1938	G.P. 220.1	N.A. 1927	41° 39' 30.857"	952.0	(899.1)	
			69° 58' 07.632"	176.6	(1211.6)	
CHATHAM STANDPIPE, 1931	"	"	41° 41' 37.625"	1160.8	(690.3)	
	153		69° 58' 31.673"	732.4	(655.1)	
BREWSTER CORNER 6, 1887	"	"	41° 44' 51.656"	1593.7	(257.4)	
	194		69° 59' 37.469"	865.8	(520.6)	
BREWSTER CORNER 7, 1887	"	"	41° 44' 35.905"	1107.7	(743.4)	
	194		69° 59' 48.345"	1117.1	(269.3)	
BREWSTER CORNER 8, 1887	"	"	41° 44' 35.819"	1105.1	(746.0)	
	194		69° 59' 47.435"	1096.1	(290.3)	
STRONG, 1868	"	"	41° 43' 11.854"	365.7	(1485.4)	
	134		69° 57' 29.675"	686.0	(700.9)	
OLD SHACK, CHIMNEY, 1920	"	"	41° 42' 25.750"	794.4	(1056.7)	
	137		69° 55' 52.276"	1208.6	(178.6)	
COAST GUARD STATION NO. #1, 1920	"	"	41° 41' 50.475"	1557.3	(293.6)	
	137		69° 55' 46.343"	1071.6	(315.8)	
OLD HARBOR COAST GUARD STATION SIGNAL MAST, 1934	"	"	41° 41' 50.98"	1572.8	(278.3)	
	154		69° 55' 45.54"	1053.0	(334.4)	
NORTH BOATHOUSE, WEST GABLE, 1920	"	"	41° 41' 43.518"	1342.6	(508.5)	
	137		69° 56' 05.268"	121.8	(1265.6)	
CURTIS' BUNGALOW, CHIMNEY, 1920	"	"	41° 41' 33.282"	1026.8	(824.3)	
	138		69° 57' 15.241"	352.4	(1035.1)	
COMPUTED BY A.C. Rauck, Jr.	DATE March 5, 1971	CHECKED BY L.O. Neterer, Jr.	DATE April 5, 1971			



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- TP-00171 PROJECT NO. PH-7004 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meters)	N.A. 1927 - DATUM FORWARD (BACK)
PAINE'S HOUSE CHIMNEY, 1920	G.P. Vol. I 138	N.A. 1927	41° 41' 22.607" 69° 57' 09.176"	697.5	(1153.6) (1175.3)
CHATHAM, CONGREGATIONAL CHURCH SPIRE, 1868	" 135	"	41° 40' 57.912" 69° 57' 41.781"	1786.7 966.3	(64.4) (421.4)
CHATHAM, ROMAN CATHOLIC CHURCH 1920	" 139	"	41° 41' 05.943" 69° 57' 32.177"	183.4 744.2	(1667.7) (643.5)
CHATHAM, METHODIST CHURCH 1920	" 138	"	41° 40' 51.792" 69° 57' 35.327"	1597.9 817.1	(253.2) (570.6)
REGGIE, 1938	" 220	"	41° 40' 07.404" 69° 59' 06.766"	228.4 156.5	(1622.7) (1231.5)
PINE, 1868	" 135	"	41° 40' 07.925" 69° 59' 35.549"	244.5 822.4	(1606.6) (565.6)
CHATHAM, SOUTH LIGHTHOUSE, 1880	" 135	"	41° 40' 16.672" 69° 57' 01.571"	514.3 36.3	(1336.8) (1351.7)
HOUSE ON BLUFF CHIMNEY, (A), 1920	" 136	"	41° 42' 25.022" 69° 57' 07.640"	772.0 176.6	(1079.1) (1210.6)
GREY HOUSE CHIMNEY, (B), 1920	G.P. Vol. I 136	N.A. 1927	41° 42' 30.023" 69° 57' 26.021"	926.3 601.6	(924.8) (785.5)
HOUSE ON BLUFF CHIMNEY, (C), 1920	" 136	"	41° 42' 31.901" 69° 57' 26.680"	984.2 616.8	(866.9) (770.3)
KENTS HOUSE CHIMNEY, 1920	" 136	N.A. 1927	41° 42' 13.734" 69° 56' 48.795"	423.7 1128.2	(1427.4) (259.1)

Plotted by: Susan Kumer & Brad Foltz  
 CHECKED BY: L.O. Neterer, Jr.  
 DATE: March 5, 1971  
 DATE: April 5, 1971

PH-7004

TP-00171

31. DELINEATION

Delineation was done with the B-8 plotter. Photographic coverage was adequate. There was no field inspection prior to compilation.

32. CONTROL

See "Photogrammetric Plot Report", dated February 1971.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line was delineated by office interpretation of photographs taken September 12, 1970. The photographs were taken at 1.9 ft. to 2.4 ft. stage of predicted tide. Interpretation of the low water line was difficult due to penetration of the color photographs and the low water line should be considered as very approximate.

Photographs of Chatham Harbor indicate considerable shoaling, however, it was difficult to determine the limit or depth of the shoal areas.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

One (1) Form 76-40 (Landmarks for Charting) and one (1) Form 76-40 (Nonfloating aids for Charts) were submitted to the Rockville Office on August 1, 1973.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Item 5, FINAL JUNCTIONS of Form 76-36b.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

Field edit was adequate, with the following exception: No heights were furnished for two of the three objects submitted as landmarks for charts. The height for Landmark TOWER was obtained from Registered Survey T-11196.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle CHATHAM, MA, scale 1:24,000 dated 1961.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 270, scale 1:20,000, 3rd edition, dated Feb. 5, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD


None

Submitted:

*Charles H Bishop*


for L. L. Graves  
Cartographic Technician  
~~April 26, 1971~~  
August 3, 1973

Approved for forwarding:



Melvin J. Umbach, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:



Alfred C. Holmes  
RADM, NOAA  
Director, Atlantic Marine Center

July 5, 1973

## GEOGRAPHIC NAMES

## FINAL NAMES SHEETS

Ph-7004 (Mass)

TP-00171

Allens Point

Atlantic Ocean

Aunt Lydias Cove

Cape Cos

Chatham

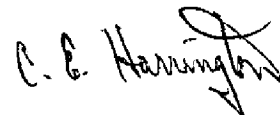
Chatham Harbor

Nauset Beach

North Chatham

Tern Island

Toms Neck

C. E. Harrington  
Geographic Names

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b> TP-00171			
1. PROJECTION AND GRIDS BW	2. TITLE BW	3. MANUSCRIPT NUMBERS BW	4. MANUSCRIPT SIZE BW
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Rockville Office	11. DETAIL POINTS BW
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE BW	13. LOW-WATER LINE BW	14. ROCKS, SHOALS, ETC. BW	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS BW	18. OTHER ALONGSHORE PHYSICAL FEATURES BW	19. OTHER ALONGSHORE CULTURAL FEATURES BW
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES BW		21. NATURAL GROUND COVER XX	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES BW
<b>CULTURAL FEATURES</b>			
27. ROADS BW	28. BUILDINGS BW	29. RAILROADS XX	30. OTHER CULTURAL FEATURES BW
<b>BOUNDARIES</b>			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES BW		34. JUNCTIONS BW	35. LEGIBILITY OF THE MANUSCRIPT BW
36. DISCREPANCY OVERLAY Office Copy-BW	37. DESCRIPTIVE REPORT BW	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS BW
40. REVIEWER B. Wilson May 10, 1971		SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>			
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 Susan Kumer Dec. 7, 1972 Reviewer: R.R. White Dec. 8, 1972		SUPERVISOR A.C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: The field edit ozalid, the field edit report and photographs; 70-L-(c)-8333, 8334.			

FIELD EDIT REPORT

Sheet TP-00171

Nauset Beach

Race Point to Chatham, Mass.

52. ADEQUACY OF COMPILATION

Due to the heavy surf on Nauset Beach at the time of field edit (late October to mid November, 1972), it was impossible to verify the MHWL by taking distances from identifiable points on the photos. However, it is felt from field inspection that compilation was adequate in this shoreline delineation and all other compilation except where noted on the field edit.

54. RECOMMENDATIONS

None.

56. LANDMARKS AND NON-FLOATING AIDS TO NAVIGATION

One non-floating aid to navigation is recommended for charting. It is the Chatham Light (Chatham South Lighthouse, 1889).

Three landmarks are recommended for charting. They are the Chatham Methodist Church tower, 1920; Chatham Standpipe, 1931; and the Old Harbor Coast Guard Station Signal Mast, 1934.

58. ADDITIONAL INFORMATION

Various piers, groins, rocks, and other features have been verified or located and are referenced on the field edit. All times refer to EDT (time zone 4, 60° longitude).

Respectfully Submitted,

*James W. Davis*

James W. Davis

Ens./N.O.A.A.

Photo Party 62





NOAA FORM 76-40  
(2-71)  
PRESCRIBED BY  
PHOTOGRAMMETRY INSTRUCTION NO. 64.

U.S. DEPARTMENT OF COMMERCE—NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
~~NAVY~~ **LANDMARKS FOR CHARTS**

ORIGINATING ACTIVITY  
 FIELD INSPECTION  
 FIELD EDIT  
 COMPILATION  
 FINAL REVIEW  
 QUALITY CONTROL AND REVIEW  
(See reverse for responsible personnel.)

TO BE CHARTED  
 TO BE DELETED

ORIGINATING LOCATION  
Coastal Mapping Division  
Atlantic Marine Center

DATE  
7-23-73

The following objects have ~~(been)~~ been inspected from seaward to determine their value as landmarks:

JOB NUMBER PH-7004	SURVEY NUMBER T- TP- 00171	DATUM N.A. 1927		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED
		LATITUDE D.M.-METERS	LONGITUDE D.P.-METERS	FIELD INSPECTION	COMPILATION	FIELD EDIT		
CHARTING NAME	DESCRIPTION							
TOWER ✓	Watchtower on building ht=44 (54) (Coast Guard Station No 41, 1920)	41 50.475 1557.3	69 54 1071.6				Triang. Rec. 10-31-72	270 1208
CHURCH TOWER	(Chatham Methodist Church 1920)	40 51.792 1597.9	69 57 817.1				Triang. Rec. 10-31-72	270 1208
STAND- PIPE	(Chatham Standpipe, 1931) ht = 115 (225)	41 37.625 1160.8	69 58 58732.4				Triang. Rec. 10-31-72	270 1208
	There is some confusion regarding the Coast Guard Station (Coast Station No. 41), as a Coast Guard Station. Charts 1280 and 270 show Tower as the landmark. This refers to the watchtower, which rises 25 feet above the main building (1940 triangulation recovery note, Bulletin 513, page 42). The field editor in 1972 recommends the signal mast, which is about 80 feet northeast of the watchtower, as a landmark, but did not give the height above the ground and mean high water. He did not recommend TOWER to be deleted, or make any mention of it. It is the final reviewer's belief that the field editor considered the mast-as being the tower. The height listed is from Registered Survey T-11196.					Old Harbor now abandoned		
	Since both of these objects are triangulation and described in 1972, the final reviewer recommends that TOWER (COAST GUARD STATION NO. 41, 1920) be retained as the charted landmark.							
	Charles H. Bishop 7-23-73							20

## REVIEW REPORT TP-00171

## SHORELINE

July 19, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey T-11196, scale 1:10,000, dated 1959 (north of Lat. 41°41'15") and with Survey T-11203, scale 1:10,000, dated 1958 (south of Lat. 41°41'15"). Differences between these registered surveys and TP-00171 were shown in blue on the comparison print.

TP-00171 supersedes the registered surveys for nautical chart construction purposes in the area compared.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle CHATHAM, MA, scale 1:24,000, dated 1961. Differences between this map and TP-00171 were shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Boat Sheet H-9233 (PE-20-3-71). The comparison covered only the ocean shoreline. Some small discrepancies in the mean high water line were noted in purple on the comparison print. The mean low water line was not shown on the boat sheet. The soundings shown did not show this feature to be in error on TP-00171, and it was retained on the map.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 270, scale 1:20,000, 4th edition, dated October 16, 1971. Significant differences between the chart and TP-00171 were shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer

Approved for forwarding:

*Melvin J. Umbach*  
Melvin J. Umbach, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:

*Alfred C. Holmes*  
Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Approved:

*D.K. Ferguson* Chief, Photogrammetric Branch, *Wesley Hull* Chief, Coastal Mapping Division

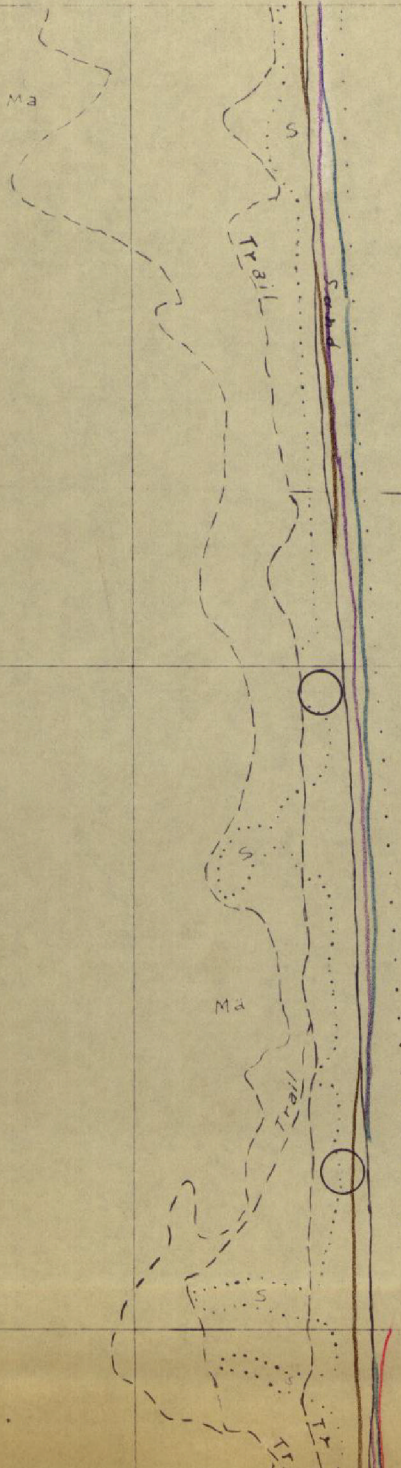
30"

69°56'

55'30" X=1,030,000 ft.

41°45'

69



70 L(C) 1834

44'30"

COMPARISON PRINT

- Purple = H-9233
- Brown = U.S.G.S.
- Blue = T-11196

44'

TP-00171

1:10,000

1



69° 56'

56' 30"

N

24

70L(C) 8344

A

43' 30"

E

C

O

41° 43'

COMPARISON PRINT

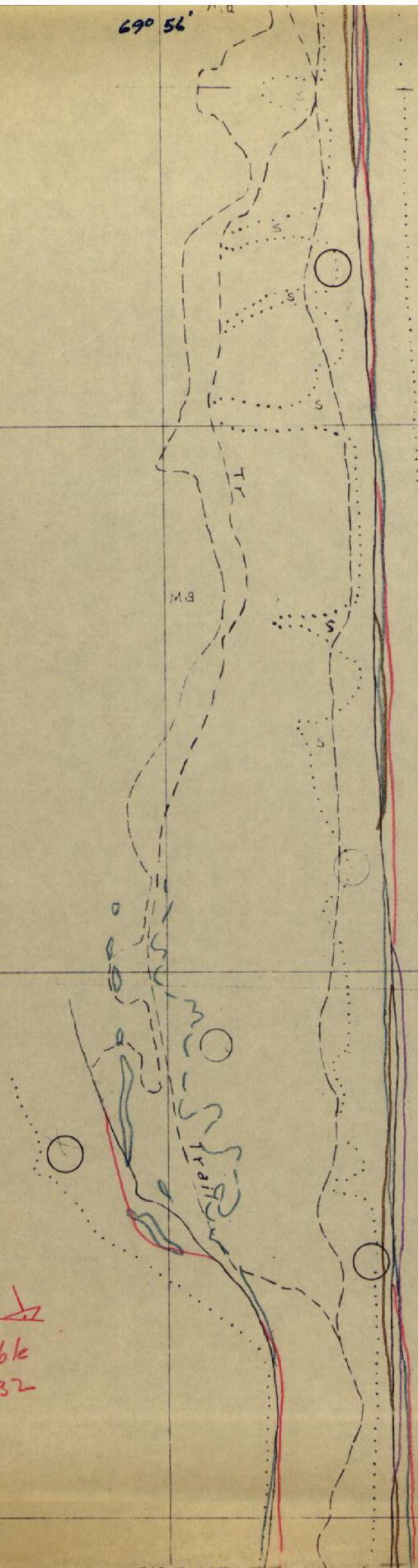
- Purple = H-9233
- Brown = U.S.G.S.
- Blue = T-11196
- Red = Chart 270

70L(C) 8343

70L(C) 8332

*Wk not visible  
on 73 L 8332*

TP-00171  
1:10000



*Sand*



69° 59'

58' 30"

25

C

41° 42'

O

△

CHATHAM STANDPIPE 1931

N# = 115(225)

ht = 120(250)

E

41' 30"

P

COMPARISON PRINT

Blue = T-11196

TP-00171

1:10,000

A



57'30"

HOUSE ON BLUFF  
CHIMNEY (A) 1920

26

COMPARISON PRINT

Brown = U.S.G.S.  
Blue = T-11196  
Red = Chart 270

NORTH  
CHATHAM

KENT'S HOUSE  
CHIMNEY, 1920

Allen  
Point

Pond

Ma

Not visible  
on Photos

Obstr

Also on  
USGS

Reks not visible on  
photos; not found  
by F.I.E.

41°42'

Reks also on USGS  
Not visible  
in photos

Shallow

CURTIS BUNGALOW  
CHIMNEY 1920

Gr  
in  
Water

Pier

41'30"

Tern Island

PAINES HOUSE  
CHIMNEY 1920

Grain  
Bkhd

Wharf

Pier

F.I.E. 1971: No  
wreck visible

Gr  
in  
W

Gr  
in  
W

Aunt Lydia's Cove

Prism

SHORE  
ROAD

Shallow

CHATHAM ROMAN  
CATHOLIC CHURCH  
1920

TP-00171  
1:10,000

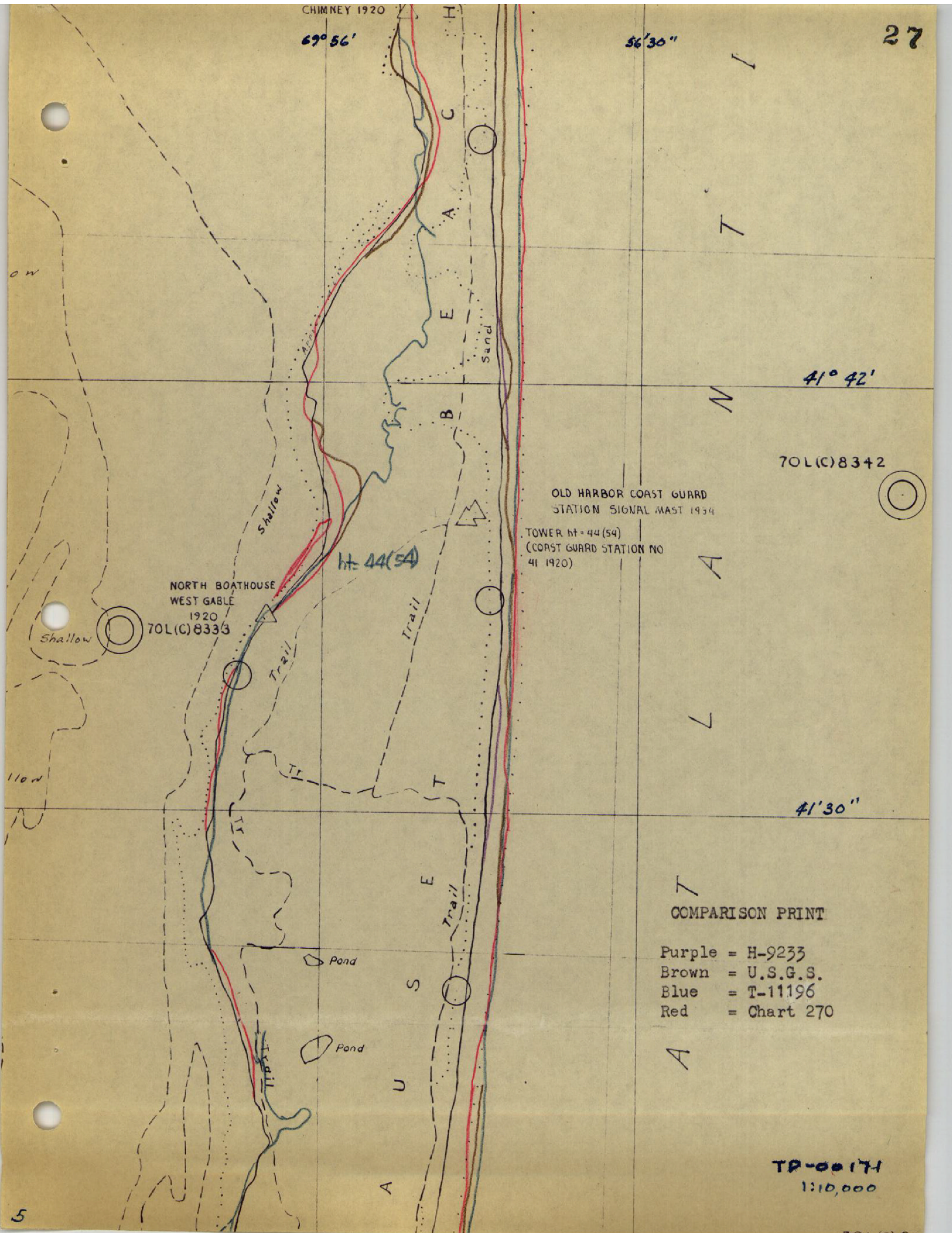


CHIMNEY 1920

69° 56'

56' 30"

27



COMPARISON PRINT

- Purple = H-9233
- Brown = U.S.G.S.
- Blue = T-11196
- Red = Chart 270

TP-00171  
1:10,000

5



△ CHATHAM CONGREGATIONAL  
CHURCH SPIRE 1868

△ CHURCH TOWER (LDMK)  
(CHATHAM METHODIST CHURCH, 1920)

# CHATHAM

### COMPARISON PRINT

Brown = U.S.G.S.  
Blue = T-11203  
Red = Chart 270

CHATHAM LIGHT  
(CHATHAM SOUTH  
LIGHTHOUSE 1880)

Toms  
Neck

Black top

Sand

Piers gone  
F.E. 1972

Shallow

Grains

40'30"

HARBOR

CHATHAM

41°40'00"

X=1,020,000ft

57'30"

63°57'

X=1,025,000ft

56'

No Contemporary Survey)

### LEGEND

— Paved road  
- - - Unpaved road

- △ Recoverable horizontal control station of third order or higher accuracy
- Recoverable horizontal control station of less than third-order accuracy
- - - Approximate mean lower low water line

The light shoreline defines the outer limits of vegetation visible at approximate mean high water.

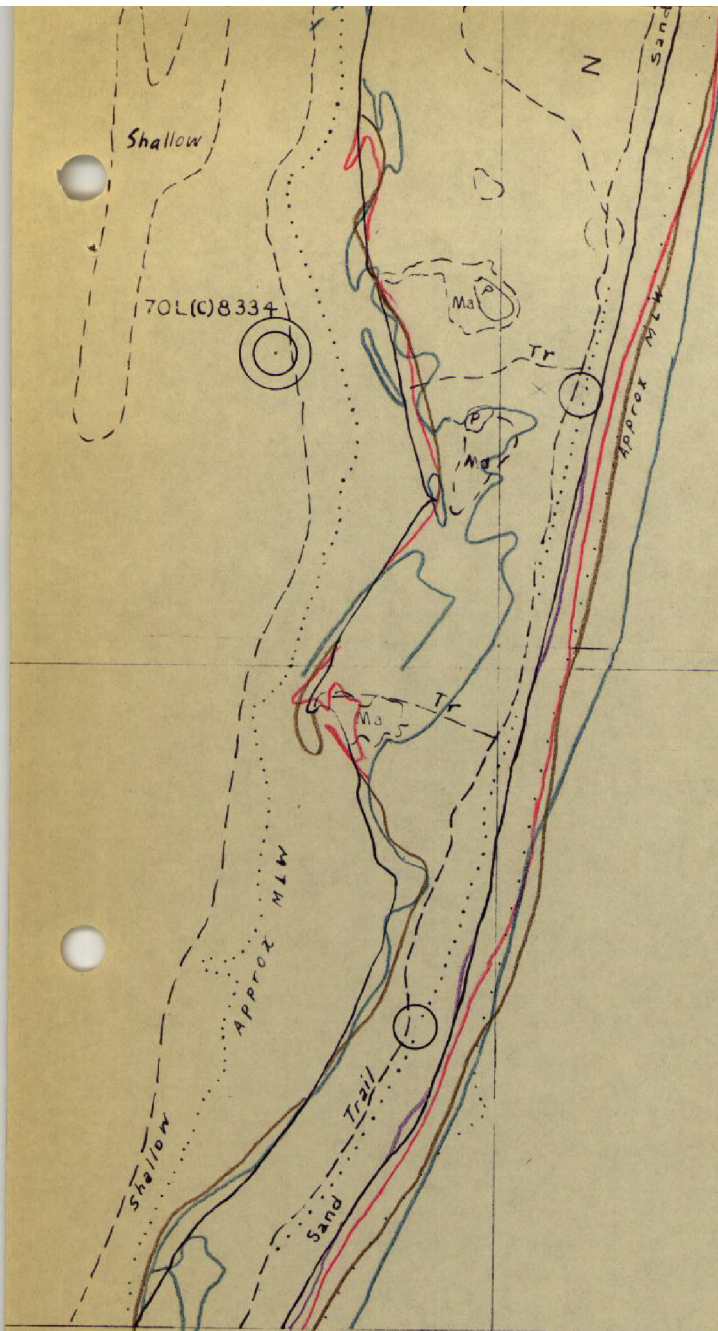
The heavy shoreline defines the approximate mean high water.

Compiled by photogrammetric methods, from aerial photographs.

Date of Photography	Sept 1970
Date of Field Inspection	None
Date of Compilation	April 1971
Date of Field Edit	Nov 1972
Date of Final Review	July 1973

TP-00171  
1:10,000





COMPARISON PRINT

- Purple = H-9233
- Brown = U.S.G.S.
- Blue = T-11203
- Red = Chart 270

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."

70L(C) 8340



41° 40' 00"

30"

69°56'

X=1,030,000ft.

55'30"

6

accuracy  
accuracy

above

70L(C) 8335



NATIONAL OCEAN SURVEY  
 SHORELINE MANUSCRIPT  
 TP-00171  
 MASSACHUSETTS  
 RACE POINT-CHATHAM  
 NAUSET BEACH (South)

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

CONTROL DATA

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