

TP-00167

TP-00167

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. PH-7004 Map No. TP-00167

Classification No. Edition No.

Field Edited Map

LOCALITY

State Massachusetts

General Locality Race Point To Chatham

Locality Longnook Beach

19 70 TO 1971

Alfred C. Holmes, Director, AMC

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 TF. <u>00167</u> MAP EDITION NO. () MAP CLASS JOB PH. <u>7004</u>
DESCRIPTIVE REPORT - DATA RECORD			
PHOTOGRAMMETRIC OFFICE Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE Melvin J. Umbach, CDR, NOAA		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__	
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 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 Maidland	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Stereoplanigraph</u> LANDMARKS AND AIDS BY		J. Perrow, Jr.	Feb. 1971
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		D. Alger "	Mar. 4/71 Mar. 4/71
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:7,500 & 1:10,000</u> CHECKED BY		C. Blood R. White Inapplicable "	Apr. 30/71 Apr. 30/71
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		C. Blood B. Wilson Inapplicable "	May 13/71 May 21/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		B. Wilson	May 21/71
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		C. Blood L.O. Neterer, Jr.	Mar. 1/72 Mar. 2/72
7. COMPILATION SECTION REVIEW BY		S. Kumer	July 30/73
8. FINAL REVIEW BY		C.H. Bishop	July 1973
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		S. Blonkenbaker	Mar. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. CATDR	JULY 1975

COMPILATION SOURCES
TP-00167

1. COMPILATION PHOTOGRAPHY

CAMERA(S) WILD RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR X (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			ZONE ATLANTIC MERIDIAN 75th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
70L(C)-8248 & 8249	12 Sept. 70	11:15EST	1:15,000	3.9 Ft. above MLW
70L(C)-8282 thru 8286	12 Sept. 70	11:50EST	1:20,000	2.6 Ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:
Air Photo Compilation
Date of photography - Sept. 12, 1970

3. SOURCE OF MEAN LOW-WATER LINE: ~~AIR PHOTO COMPILATION~~
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 NONE	EAST NONE	SOUTH TP-00168	WEST TP-00166
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REMARKS

HISTORY OF FIELD OPERATIONS TP-00167

FIELD INSPECTION OPERATION FIELD EDIT OPERATION
* Field inspection operation

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Wilson	Sept. 1970
2. HORIZONTAL CONTROL <input checked="" type="checkbox"/> RECOVERED BY <input checked="" type="checkbox"/> ESTABLISHED BY <input checked="" type="checkbox"/> PRE-MARKED OR IDENTIFIED BY	E. Hartford	Sept. 10/70
	None	
	E. Hartford	Sept. 10/70
3. VERTICAL CONTROL <input type="checkbox"/> RECOVERED BY <input type="checkbox"/> ESTABLISHED BY <input type="checkbox"/> PRE-MARKED OR IDENTIFIED BY	Inapplicable	
	"	
	"	
4. LANDMARKS AND AIDS TO NAVIGATION <input type="checkbox"/> RECOVERED (Triangulation Stations) BY <input type="checkbox"/> LOCATED (Field Methods) BY <input type="checkbox"/> IDENTIFIED BY	E. Hartford	Sept. 1971
	None	
	E. Hartford	Sept. 1971
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	E. Hartford	Oct. 1971
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED
Inapplicable

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70-L-(c)-8249	South Radio Tower 1933		
70-L-8283	Cape Cod Lighthouse 1877		

3. PHOTO NUMBERS (Clarification of details)
70-L-8233 & 8285

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
7 Landmarks & 1 Aid on above Photos (2 Landmarks not on photos)

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70-L-8285	Double Pole, 1971	70-L-8283	Stack 1971
70-L-8283	Tower 1971	70-L-8283	Cape Cod Light 1971
70-L-8283	Stone Tower 1971		
70-L-8283	Dome 1971		
70-L-8283	Dome 1971		
70-L-8283	Dome 1971		

5. GEOGRAPHIC NAMES: REPORT NONE

6. 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)
3 form 76-40, 7 form 526, 7 forms 152, 1 form 76-36c and one (1) report in duplicate.

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete Pending Field Edit	May 1971	Class III Manuscript		5/24/71
Field Edit Applied	March 1/72	Class I Manuscript		
Final Review	July 1973	CHART MAINT. PRINT	10/1/73	
Final Review	AUG 1974	CHART MAINT. PRINT *See below	3/10/75	

II. LANDMARKS AND AIDS TO NAVIGATION
 1. 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	Aids for charting.
1		8/1/73	Landmarks to be deleted.

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

III. FEDERAL RECORDS CENTER DATA

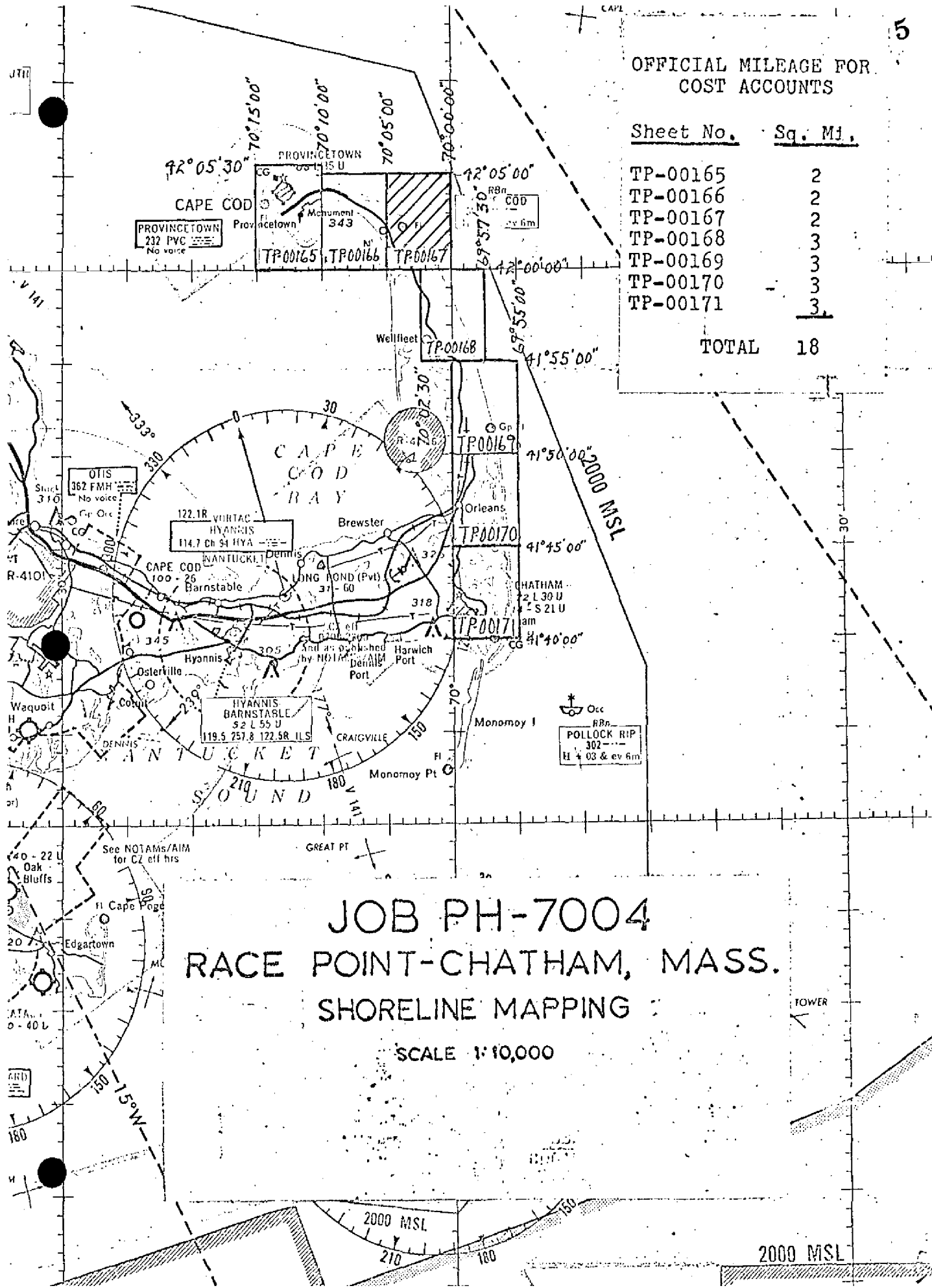
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS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

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Mi.
TP-00165	2
TP-00166	2
TP-00167	2
TP-00168	3
TP-00169	3
TP-00170	3
TP-00171	3
TOTAL	18



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 1970 and in the fall of 1970.~~

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 REPORT

TP-00167

There was no field inspection prior to compilation.

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.

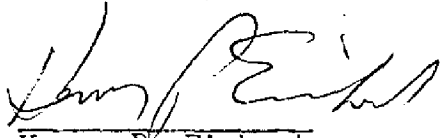
25. Photography

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.

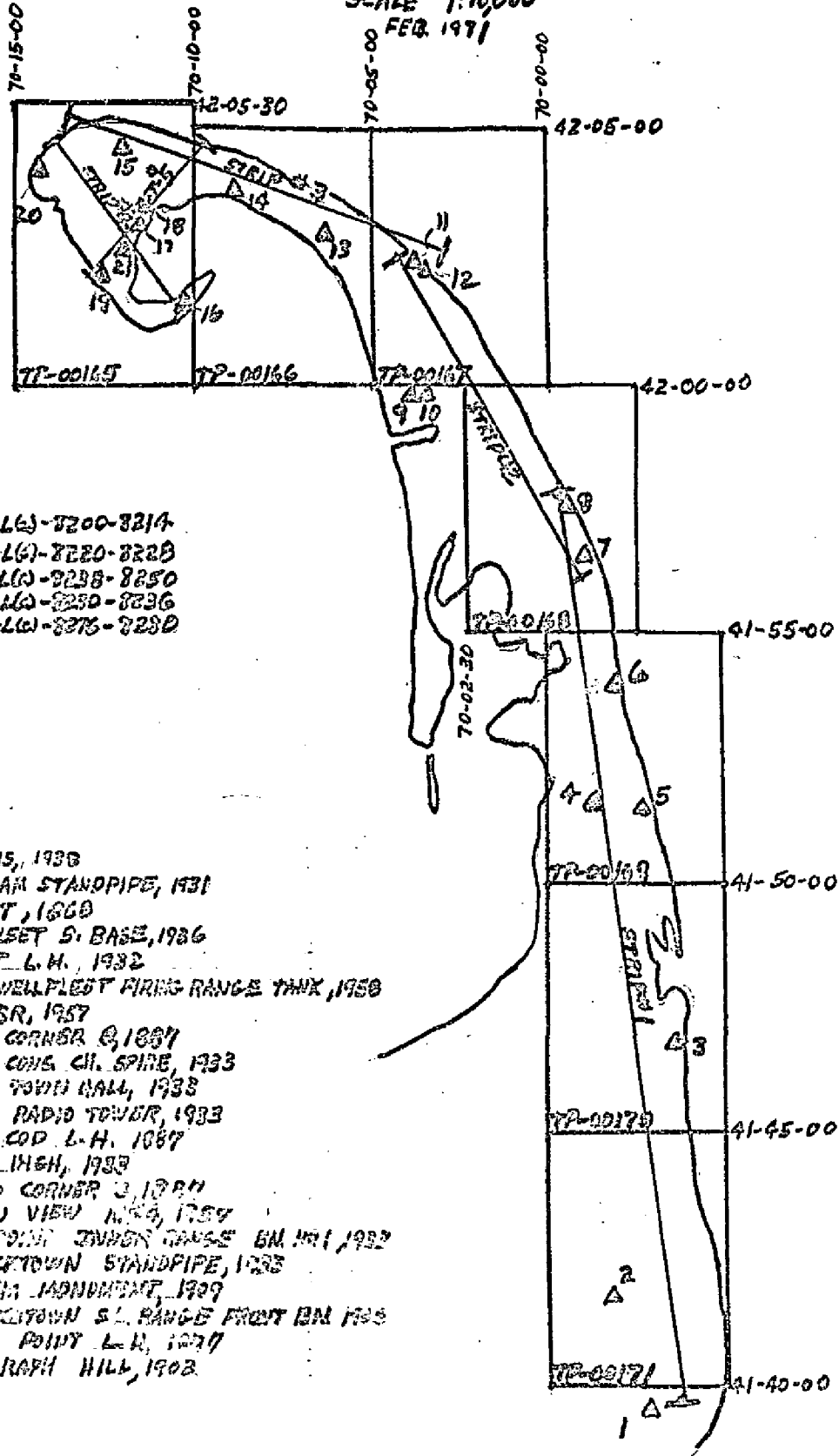
Approved by:


Henry P. Eichert
Chief, Aerotriangulation Section

PH-7004 RACE POINT - CHATHAM, MASS.

SCALE 1:10,000

FEB. 1971



STRIP#1 70-66-8200-8214
 STRIP#2 70-66-8220-8228
 STRIP#3 70-66-8238-8250
 STRIP#4 70-66-8250-8236
 STRIP#5 70-66-8276-8280

1. MORRIS, 1938
2. CHATHAM STANDPIPE, 1931
3. POCKET, 1860
4. WELLFLEET S. BASE, 1936
5. NAVSET L.H., 1932
6. CAMP WELLFLEET FIRING RANGE TANK, 1958
7. FRAZIER, 1957
8. TRURO CORNER B, 1887
9. TRURO CONC. CH. SPIRE, 1933
10. TRURO TOWN HALL, 1938
11. SOUTH RADIO TOWER, 1933
12. CAPE COD L.H. 1887
13. HEAD INGH, 1939
14. TRURO CORNER C, 1887
15. OCEAN VIEW L.H., 1957
16. LONG POINT TOWER GROUND BM 1911, 1932
17. PROVINCETOWN STANDPIPE, 1935
18. PIGGINA MONUMENT, 1939
19. PROVINCETOWN S.L. RANGE FRONT BM 1935
20. RACE POINT L.H., 1877
21. TELEGRAPH HILL, 1902

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. P-00167 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 meter)		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)
				FORWARD	(BACK)	
SOUTH RADIO TOWER, 1933	GP 81. I	NA 1927	420 02' 25.398" 700 03' 42.151"	783.6	(1067.6)	(1067.6)
CAPE COD LIGHTHOUSE, 1877	" 129	"	420 02' 22.555" 700 03' 39.843"	695.9	(1155.3)	(1155.3)
BALL (MGS). 1937	" 116	"	420 01' 02.027" 700 02' 13.372"	62.5	(1788.7)	(1788.7)
TRURO CONGREGATIONAL CHURCH, SPIRE, 1933	" 199	"	419 59' 53.412" 700 03' 18.434"	1647.9	(203.3)	(203.3)
TRURO TOWN HALL, 1933	" 200	"	41 0 59' 53.398" 700 03' 24.668"	424.3	(956.6)	(956.6)
BALLS HOUSE, FLAGPOLE, 1933	" 200	"	420 00' 52.586" 700 02' 06.455"	1647.5	(203.7)	(203.7)
				567.8	(813.1)	(813.1)
				1622.4	(228.8)	(228.8)
				148.5	(1232.0)	(1232.0)
COMPUTED BY C. Blood & A.C. Rauck, Jr.	DATE May 12/71	CHECKED BY J. Bulfer	DATE Mar. 4/71	DATE May 12/71	DATE Mar. 12/71	

COMPILATION REPORT

TP-00167

31. DELINEATION

The Wild B-8 Stereoplotter was used. Photography was of good quality. 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 - None.

35. SHORELINE AND ALONGSHORE DETAILS

All detail was compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

One Form 76-40 Landmarks for Charting, one Form 76-40 Aids to Navigation for Charting and one Form 76-40 Landmarks to be Deleted were submitted to Rockville Office on August 1, 1973.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions have been made with TP-00166 to the West and TP-00168 to the south. There are no contemporary surveys to the North or East.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

Field edit was adequate.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle NORTH TRURO, MA scale 1:24,000 dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 1208, scale 1:80,000, 15th edition, dated October 31, 1970, and Chart 580, scale 1:20,000, 5th edition, dated December 12, 1970.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

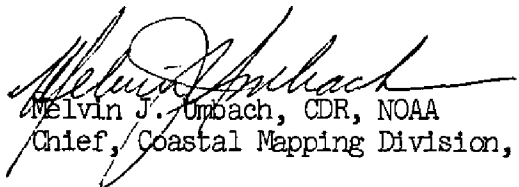
Charles E. Blood

Charles E. Blood
Cartographic Technician


~~May 17, 1971~~

August 2, 1973

Approved for forwarding:


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

Approved:


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

July 5, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-7004 (Mass)

TP-00167

Atlantic Ocean

Ballston Beach

Cape Cod

Head of the Meadow Beach

Highland Beach

Longnook Beach

The Highlands

C. E. Harrington
C. E. Harrington
Geographic Names

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-00167			
1. PROJECTION AND GRIDS BW	2. TITLE BW	3. MANUSCRIPT NUMBERS BW	4. MANUSCRIPT SIZE BW
CONTROL STATIONS			
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	11. DETAIL POINTS BW
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE BW	13. LOW-WATER LINE BW	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX
16. AIDS TO NAVIGATION BW	17. LANDMARKS BW	18. OTHER ALONGSHORE PHYSICAL FEATURES BW	19. OTHER ALONGSHORE CULTURAL FEATURES BW
PHYSICAL FEATURES			
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
CULTURAL FEATURES			
27. ROADS BW	28. BUILDINGS BW	29. RAILROADS XX	30. OTHER CULTURAL FEATURES BW
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES BW		34. JUNCTIONS BW	35. LEGIBILITY OF THE MANUSCRIPT BW
36. DISCREPANCY OVERLAY BW	37. DESCRIPTIVE REPORT BW	38. FIELD INSPECTION PHOTOGRAPHS None	39. FORMS BW
40. REVIEWER B. Wilson May 21, 1971		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.			
COMPILED C.E. Blood Mar. 1, 1972		SUPERVISOR A.C. Rauck, Jr.	
Reviewer: L.O. Neterer, Jr. Mar. 2/72			
43. REMARKS Field Edit Applied From: Field edit ozalid, Field edit Photographs, 70-L-(c)-8283 & 8285, 7 Form 526, 7 Form 152, and 3 Form 76-40.			

FIELD EDIT REPORT
Job-7004
Race Point to Chatham Mass.
TP-00167

This report is submitted for manuscript TP-00167 field edited October 1971. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done.

All of the shoreline in this map is in the National Seashore Park, it has very high bluffs with some breaks in the bluff line, in shore there are scrub oak and pine.

51 METHODS

Field edit was accomplished by the following methods, by skiff and truck travel and by walking sections of the beach.

All discrepancies on the field edit sheet have been verified on the sheet or referenced to a photograph. All notations on the field edit sheet and photographs have been made in violet ink.

Notations for this map are on the following Photos.
70-L-8283 and 8285

52 ADEQUACY OF COMPILATION

The compilation of this map appeared to be adequate.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies was noted in geographic names in this map.

56 NAUTICAL LANDMARKS AND FIXED AIDS

All landmarks and fixed aids in this map area were inspected and submitted on form 76-40.

57 BLUFFS

Compilation of bluffs appeared good, a few ^hights are noted directly on the field edit sheet.

58 LANDMARK BUILDINGS AND ROADS

All corrections and additions for landmark buildings and roads were made directly on the field edit sheet.

Submitted by
E. W. Hartford
E.W. Hartford
Nov. 1, 1971

NOAA FORM 76-40

(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

NONFLOATING AIDS TO NAVIGATION FOR CHARTS

ORIGINATING ACTIVITY

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

ORIGINATING LOCATION
 Coastal Mapping Division
 Atlantic Marine Center

DATE

7/20/73

- TO BE CHARTED
- TO BE DELETED

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

JOB NUMBER
PH- 7004

SURVEY NUMBER
T- TP- 00167

DATUM
NA 1927

POSITION	
LATITUDE	LONGITUDE
$^{\circ}$ / $'$ // D.M.METERS	$^{\circ}$ / $'$ // D.M.METERS
42 02 22.555	70 03 39.843
695.9	916.4

METHOD AND DATE OF LOCATION
(See instructions on reverse of this form)

FIELD INSPECTION

COMPILATION

FIELD EDIT

CHARTS AFFECTED

CHARTING NAME

DESCRIPTION

LIGHT

Cape Cod Light
(Cape Cod Lighthouse, 1877)

580
1208
Triang. Rec.
9/17/71
70 L. 8283

REVIEW REPORT TP-00167

SHORELINE

July 12, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.
see Addendum (page 22 B)

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There were no registered topographic surveys available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle NORTH TRURO, MA, scale 1:24,000, dated 1958. The shoreline on the quadrangle was generally offshore from the shoreline on TP-00167. Shoreline differences between the two maps were shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Boat Sheet H-9226 (PE-20-1-71). There were some discrepancies in the mean high water line. The hydrographer's source of this feature was the Incomplete Manuscript.

The mean low water line was removed from Long. 70°04'30" to the west edge of the map: It was disproved by soundings. The remaining mean low water line was retained — it was in fair agreement with the boat sheet.

Three rocks at Lat. 42°02'30", Long. 70°03'30" were not visible on photographs of the area and were not mapped on TP-00167. Differences between H-9226 and TP-00167 were shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 1208, 1:80,000 scale, 17th edition, dated October 21, 1972. Shoreline was in good general agreement. The only discrepancy noted was the charted landmark (FLAG-POLE) at Lat. 42°00'52", Long. 70°02'06". This landmark was recommended for deletion by the field editor because it is inconspicuous and was not mapped on TP-00167. A new object near by, not yet charted, was recommended for charting and was mapped on TP-00167. See Form 76-40.

65. COMPARISON WITH NAUTICAL CHARTS (cont'd)

The shoreline west of Long. 70°03' was also compared with Chart 580, 1:20,000 scale, 6th edition, dated October 21, 1972. Shoreline differences between this chart and TP-00167 were shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Approved for forwarding:

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

Approved:

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

Approved:

W. A. King
Chief, Photogrammetric Branch

W. A. King
Chief, Coastal Mapping Division

ADDENDUM TO REVIEW REPORT

AUGUST 1, 1974

The measurements to the MHWL, supplied by the field editor, were too widely spaced to up-date the entire shoreline and produced an illogical inconsistency. On the advice of Rockville Quality Control Authority the shoreline was re-delineated to conform to its location as of the date of photography. *Adjusted shoreline appears on the comparison sheets in ball point pen.*

Bernard Kurs
Bernard Kurs
Cartographer

03'30"

05'

70°04'30"

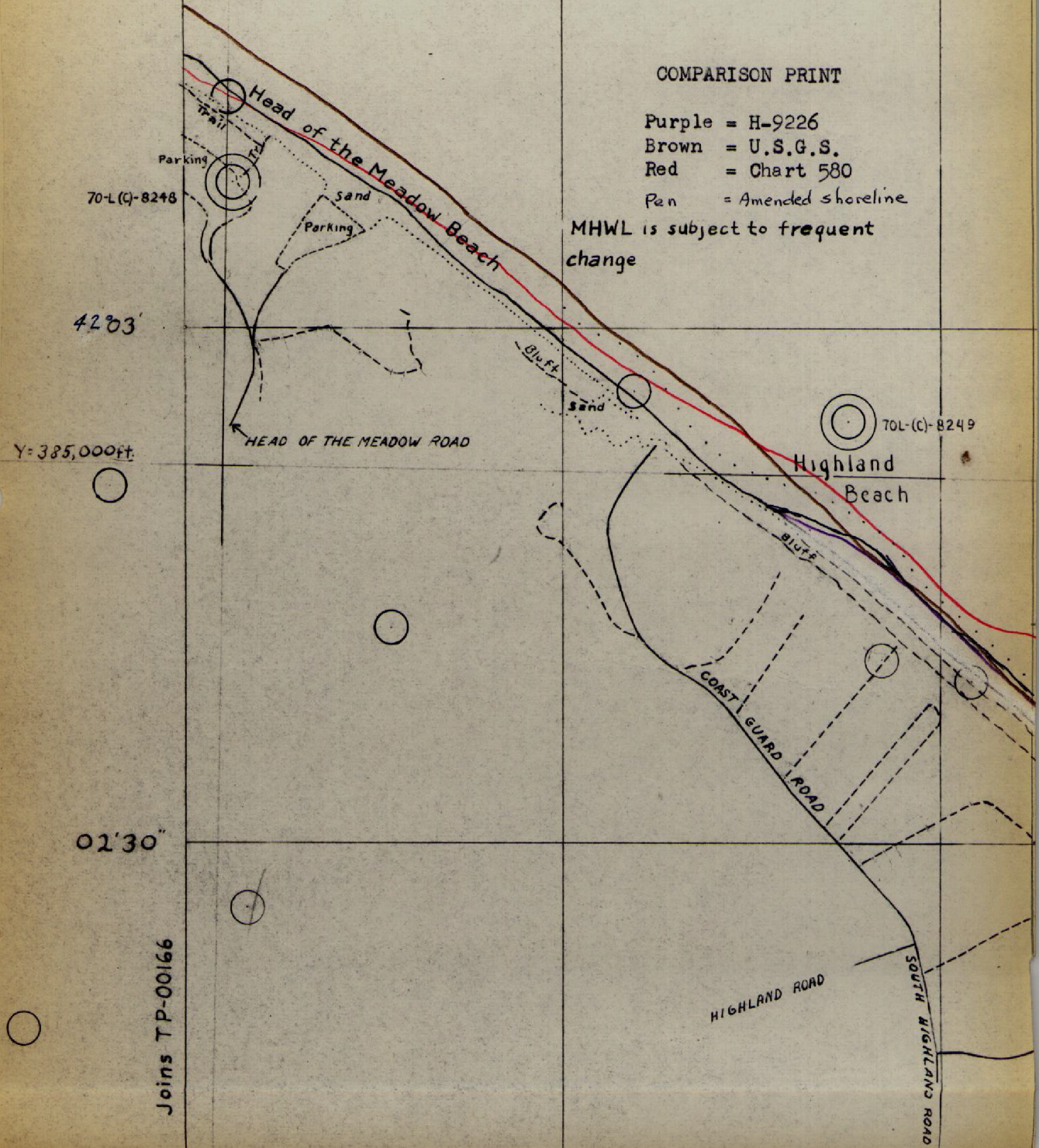
04'

23

COMPARISON PRINT

- Purple = H-9226
- Brown = U.S.G.S.
- Red = Chart 580
- Pen = Amended shoreline

MHWL is subject to frequent change



42'03"

Y=385,000ft.

02'30"

Joins TP-00166

TP-00167
1:10,000

03'30"

70°03'

02'30"

24

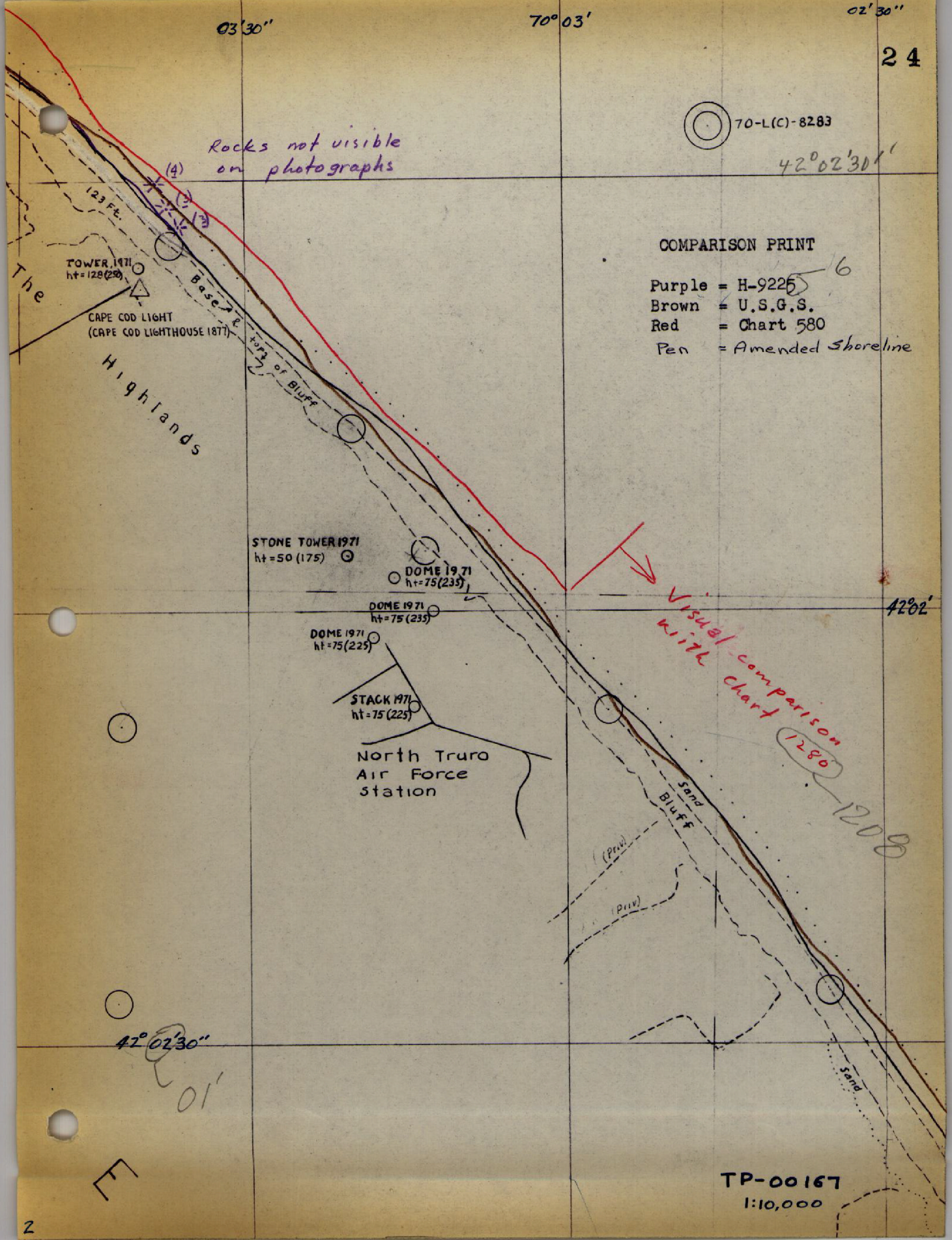
70-L(C)-8283

42°02'30"

Rocks not visible on photographs

COMPARISON PRINT

- Purple = H-9225
- Brown = U.S.G.S.
- Red = Chart 580
- Pen = Amended Shoreline



TOWER 1971
ht = 128 (235)

CAPE COD LIGHT
(CAPE COD LIGHTHOUSE 1877)

The
Highlands

STONE TOWER 1971
ht = 50 (175)

DOME 1971
ht = 75 (235)

DOME 1971
ht = 75 (235)

DOME 1971
ht = 75 (225)

STACK 1971
ht = 75 (225)

North Truro
Air Force
Station

Visual comparison
with chart

42°02'

1280
1208

47°02'30"

EF

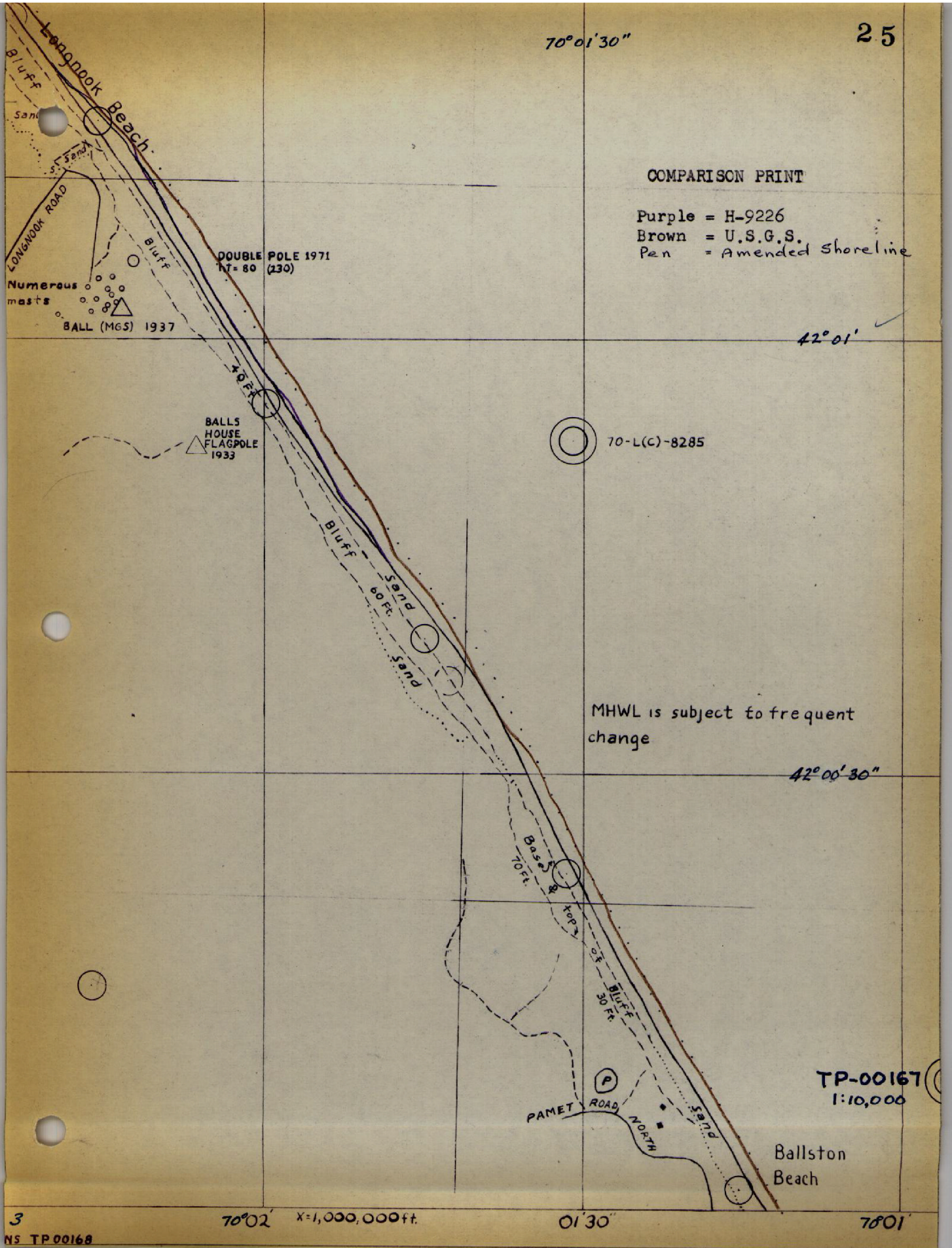
TP-00167
1:10,000

2

70°01'30"

COMPARISON PRINT

Purple = H-9226
Brown = U.S.G.S.
Pen = Amended Shoreline



42°01'

70-L(C)-8285

MHWL is subject to frequent change

42°00'30"

TP-00167
1:10,000