

12495

H. K. K.

Diag. Cht. Nos. 1208-2 & 1209-2.

12495

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey Chart 259	
Field No. Ph-6102	Office No. T-12495
LOCALITY	
State	Massachusetts
General locality	Cape Cod
Locality	Nantucket Sound
1961-62	
CHIEF OF PARTY	
W. E. Randall	
LIBRARY & ARCHIVES	
DATE	May 1964

DESCRIPTIVE REPORT - DATA RECORD

~~X~~ Chart 259 T-12495

PROJECT NO. (II): Ph-6102		
FIELD OFFICE (III):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland		OFFICER-IN-CHARGE William E. Randall
INSTRUCTIONS DATED (III) (III): May 10, 1961		
METHOD OF COMPILATION (III): Kelsh plotter		
MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III):		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): X =	STATE	ZONE
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

Chart 259 T-12495

FIELD INSPECTION BY (II): Joseph K. Wilson		DATE: August 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Infrared. Photography at high water		
PROJECTION AND GRIDS RULED BY (IV): J. D. C.		DATE 8/4/61
PROJECTION AND GRIDS CHECKED BY (IV): G. H. Everett		DATE 8/4/61
CONTROL PLOTTED BY (III): J. D. McEvoy		DATE 6/15/62
CONTROL CHECKED BY (III): D. M. Brant		DATE 6/15/62
RADIAL PLOT OF STEREO PLOT CONTROL EXTENSION BY (III): R. Fuechsel		DATE October 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY J. D. McEvoy	DATE 6/18/62
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): J. D. McEvoy		DATE 8/8/62
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser		DATE 9/10/62
REMARKS: Field edit by: J. K. Wilson 9/24/62		

DESCRIPTIVE REPORT - DATA RECORD
Chart 259 T-12495

CAMERA (KIND OR SOURCE) (III):

C&GS "L" and "S" camera (6" focal length)

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
<u>Infrared</u>				
61-L-1530 thru 1535	4/9/61	1456	1:30,000	+0.1'
1630 thru 1632	4/12/61	1446	"	0.3
1644 " 1647	"	1206	"	2.1
1652 " 1654	"	1217	"	2.0
<u>Color Prints</u>				
61-S-6894 thru 6900	4/20/61	0825	1:15,000	+0.4' MLW
6921 " 6926	"	0848	"	0.8
6929 " 6941	"	0800	"	0.1
62-S-5569 thru 5574	4/11/62	1258	1:25,000	
62-S-5576 thru 5580	4/11/62	1303	1:25,000	

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston **			
COORDINATE STATION: Poponneset Island and Poponneset Bay		2.3	2.8
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): S. G. Blankenbaker
DATE: Nov. 1962

PROOF EDIT BY (IV):
DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):
RECOVERED: IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):
RECOVERED: IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

** "Tide Controlled" Photography

Refer to project diagram for location of tide staffs.

Summary to Accompany Descriptive Report
Chart Drawing 259 T-12495
Topography

This compilation is one of ten similar chart drawings of topography ranging in scale from 1:5,000 to 1:40,000 in Project 6102. The project, initiated to test the practicability of compiling nautical chart topography by photogrammetric methods, covers the south shore of Cape Cod, the Elizabeth Islands, Martha's Vineyard Island and Nantucket Island.

REPRODUCTION LOG

T- 259

T- 12495

COMPILATION RECORD

COMPLETION DATE

REMARKS

Advance manuscript

9/11/62

Shoreline revisions
from 1962 photographs
Field Edit applied.

FINAL REVIEW

11-2-62

Nov. 1962

COMPILATION REPORT

Chart 259

T-12495

No field inspection report was submitted. The Photogrammetric Plot Report is bound with the Descriptive Report for Chart 348 (12501)

31. DELINEATION

The Kelsh Plotter was used for delineation using color points in the vertical projector for small detail.

All delineation was done on a work sheet then drafted on the chart manuscript.

32. CONTROL

Horizontal points from the stereo-planigraph bridging were adequate.

33. SUPPLEMENTAL DATA

The data used in the compilation is tabulated on the history form which is attached.

34. CONTOURS AND DRAINAGE

Contours are applicable. Drainage is complete.

35. SHORELINE AND ALONGSHORE DETAIL

All details were from office interpretation, using infrared for high water and color prints for low water information.

The infrared and color prints were tide controlled.

36. OFFSHORE DETAILS

Color prints were used in the vertical projector for offshore details.

37. LANDMARKS AND AIDS

Landmarks and Aids were either plotted from triangulated positions or located photogrammetrically. Copies of Form 567 are attached.

38. CONTROL FOR FUTURE SURVEYS

Chart details are sufficient for future corrections or additions using aerial photographs.

39. JUNCTIONS

Junction has been made with Chart 260 - 1:20,000 scale.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. thru 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. Quadrangle	Falmouth, Mass.,	1:24,000	-	1936 revised 1957.
"	"	Cotuit, Mass.,	"	1939 revised 1949.
"	"	Hyannis, Mass.,	"	1939 revised 1950.

47. COMPARISON WITH NAUTICAL CHARTS

C&GS 259, scale 1:20,000 - March 9, 1944 revised May 2, 1960.

48. GEOGRAPHIC NAMES


Geographic names have been omitted at the request of Mr. Everett.

Respectfully submitted
September 11, 1962



Joseph D. McEvoy
Carto. (Photo.)

Approved and forwarded



Joseph Steinberg
Acting Baltimore District Officer

FIELD EDIT REPORT
Project PH-6102
Chart 259 ~~T-12495~~
Cotuit, Massachusetts

T-12495

GENERAL NOTES

The area was field-edited during the period of 18 September through 24 September 1962. Corrections and additions have been inked on the photographs in black, and referenced on the discrepancy print in purple. Most of the area was inspected at or near low-water.

All nautical landmarks and fixed aids to navigation were visually checked and verified. One height for a landmark is shown on a new Form 567.

No new landmark buildings are recommended. One small building along the beach has been razed.

There have been several shoreline changes since 1961 which have been delineated on the 1962 photography. Most of these are small changes.

Field Edit notations are inked on the following photographs: Panchromatic 62-S-5570, 5571, 5574, and 5579; Color 61-S-6899, 6900, 6939, and 6941.

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 720
24 September 1962

REVIEW REPORT
TOPOGRAPHY
CHART DRAWING 259
November 20, 1962

61. General Statement

The manuscript was revised from 1962 photographs during application of field edit data. The Prince Cove inset was not recompiled. The existing inset base was revised by the Chart Maintenance Section from 1962 photography and field edit data. Field edit of the inset was accomplished as a part of PH-6102.

The new drawing was not compared with registered topographic or hydrographic surveys during final review, due to the existence of a published chart at the same scale as the new drawing.

62. Comparison with Registered Topographic Surveys

Inapplicable - Refer to heading No. 61 of this report.

63. Comparison with Maps of Other Agencies

The comparison was made in the compilation office.

64. Comparison with Hydrographic Surveys

Inapplicable - Refer to heading No. 61 of this report.

65. Comparison with Nautical Charts

No. 259 (revised 5/2/60)

The new drawing and the published chart are in good overall agreement. Numerous natural and cultural changes have occurred since the published chart was revised. The new survey provides new positions for some of the aids to navigation and landmarks shown on the published chart. In addition one new aid to navigation and several landmarks were located through the new survey.

66. Adequacy of Results and Future Surveys

This survey meets Bureau requirements for nautical charting purposes.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

Charles Scherer
Chief, Cartographic Branch
hch.

J. E. Waugh 12/13/67
Chief, Photogrammetry Division

CHART

DRAWING

SHEET No. 1

PROJECT

HISTORY OF CARTOGRAPHIC WORK - NAUTICAL CHART BRANCH FILES

NC REC CORR FUTURE

DATE

TO REPRODUCTION

NC NE NP KP T.O.

LITH. Rec'd.

LITH. Ver.

PRINT DATE

REMARKS (over)

No. 9-25

APPLIED	SOURCE OF INFORMATION			Type of Information	LOCALITY	INFORMATION APPLIED			
	File No.	Date	Authority						
1	Photos (Intra-red) 61L 1530 thru 1535 " 1630 " 1632 " 1644 " 1647 " 1652 " 1654	April 1961 " " "	C+GS	Topo	Entire Chart	Planimetric detail compiled with Ketsch Plotter			
2	Photos (Color) 61S 6894 thru 6900 " 6921 " 6926 " 6929 " 6941	April 1961 " " "	C+GS	Topo	Entire Chart	Planimetric detail, low water line and aids to navigation were located by using color prints in the vertical projector.			
3	Annotated Chart 1209	Aug 1961	C+GS	Bluffs	Entire Chart	Bluff inspection data			
4	Form 567			landmarks	Entire Chart	Landmarks + Fixed Aids			
5	Photos (1:20,000) 62S 5569 thru 5574 " 5576 " 5580	April 1962 " "	C+GS	Topo	Entire Chart	Shoreline revisions from 1962 photographs.			
6	Field Edit Discrepancy Print	Nov 1962	C+GS	Topo	Entire Chart	Corrections and additions applied.			
Items	Compiled by	Started	Completed	Time (hrs.)	Items	Verified by	Started	Completed	Time (hrs.)
1-4	Jos D. McEvoy	6-11-62	8-8-62	192	1-4	Raymond Glaser	9-6-62	9-10-62	10
1-4	" " (Drafting)	8-8-62	9-12-62	177	5+6	J. D. McEvoy	10-30-62	10-31-62	12
5	" " (Revisions)	10-16-62	10-19-62	74					
6	C.A. Lipsecomb (Field Edit Corrections)	10-12-62	10-31-62	75					

Projection Data

CHART NO. 259

Chart No. 259

Location: Nantucket Sound-West Bay to Green Pond

Projection: Mercator

Datum N. A. 1927

Scale 1:20,000 at Middle Latitude 41°34'

Projection interval 2' black Color 1' red

Border 0.0-1.5-1.5-7.5

Material: Briston board on Aluminum

All figures in millimeters

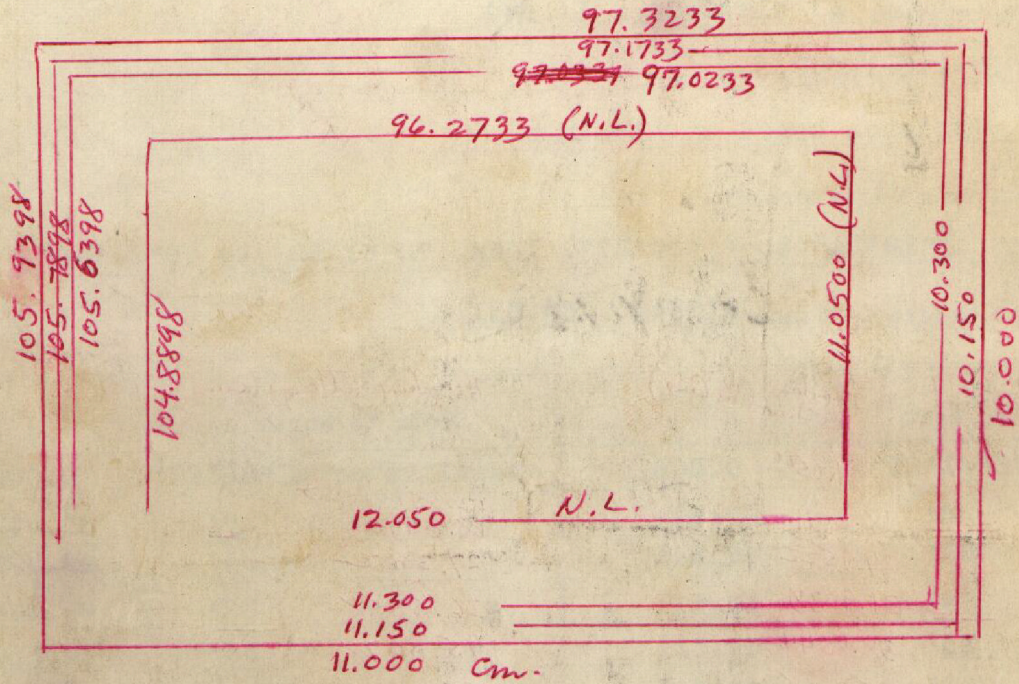
Limits Lat 41°29'21" to 41°38'27". Long. 70°21'00" to 70°34'30"

1' Long. at Middle Latitude 41°34' 69.511

See Reverse for
border line settings

East to West <i>(machine settings in Cms)</i>		South to North <i>(machine settings (Cms))</i>	
Neatline or 70°21'00"	<u>11.0500</u> 0.000	Neatline or 41°29'21"	0.000
22'	<u>18.0011</u> 69.511	<u>12.0500</u> → <u>18.0590</u> 30'	60.090
23'	<u>24.9522</u> 69.511	<u>27.3062</u> 31'	92.472
24'	<u>31.9033</u> 69.511	<u>36.5558</u> 32'	92.496
25'	<u>38.8544</u> 69.511	<u>45.8078</u> 33'	92.520
26'	<u>45.8055</u> 69.511	<u>55.0621</u> 34'	92.543
27'	<u>52.7566</u> 69.511	<u>64.3188</u> 35'	92.567
28'	<u>59.7077</u> 69.511	<u>73.5779</u> 36'	92.591
29'	<u>66.6588</u> 69.511	<u>82.8395</u> 37'	92.616
30'	<u>73.6099</u> 69.511	<u>92.1035</u> 38'	92.640
31'	<u>80.5610</u> 69.511	<u>96.2733</u> 38'27"	<u>41.698</u>
32'	<u>87.5121</u> 69.511		<u>842.233</u>
33'	<u>94.4632</u> 69.511		
34'	<u>101.4143</u> 69.511		
<i>(N.L.)</i> 104.8898	34'30" <u>34.755</u>		
	<u>938.398</u>		
Neatline dimensions <u>55.8" x 37.0"</u>			
Computed by L. M. Z. 8/10/41			
Checked by F. M. A. 8/11/41			

North



~~CONFIDENTIAL~~ **LANDMARKS FOR CHARTS**

TO BE CHARTED
~~RECOMMENDED~~ } STRIKE OUT TWO
~~RECOMMENDED~~

Baltimore, Maryland Sept. 12, 1962

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by Donald M. Brant

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM							
				D. M. METERS	° ' "	D. M. METERS	° ' "								
MASSACHUSETTS	TANK	Steel, Oysterville water tank Ht. 175 (235) ft.		41 37	49.399	70 22	59.273	N.A. 1927	Photo	8/1/61	X			259	
	SPIRE	(Cotuitport Church Spire, 1887) Ht. 80 (120) ft.		41 36	54.184	70 26	11.338 262.5	"	Tri	7/17/61 1887	X			259	
	TANK	Cotuitport High School Water Tank (Steel Ht. 175 (230) ft. Cotuit water Dept. Tank 6 Legged (New)		41 37	44.148	70 26	32.055 742	"	Photo	8/11/61	X			259	
	TANK	Steel, Ht. 175 (235) ft.		41 37	22.106	70 26	27.300 632	"	"	"	X			259	
	TANK	Falmouth Water Dept. Steel Ht. 150 (180) ft. (Club Wianno)		41 34	53.483	70 32	22.363 518	"	"	8/14/61	X			259	
	FLAGPOLE	Center of widow-walk top grey shingled 3 story building		41 36	28.524	70 22	8.336 193	"	Photo		X			1209	

Joseph Steinberg Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

PH-6102

INFRA-RED PHOTOGRAPHY (HIGH WATER)

LIGHT NO	PHOTO NOS	SCALE	STAGE OF TIDE
181A	GIL-1681 THRU 1695	1:15,000	CHAT 0.0
301	GIL-1609 " 1619	1:30,000	CHAT - 0.1
302	1621 " 1633	"	CHAT - 0.4 PORT + 0.1
303	1635 " 1641	"	CHAT - 0.6 PORT - 0.1
304	1652 " 1662	"	PORT - 0.3
305	1644 " 1650	"	PORT - 0.1 YARD - 0.2
306	1530 " 1539	"	YARD - 0.1
307	1496 " 1502	"	WOOD 0.0 BART - 0.2
308	1479 " 1491	"	HOLE BART } - 0.2 WOOD 0.0
309	1515 " 1528	"	GAY + 0.4
310	1504 " 1513	"	GAY + 0.4 WOOD 0.0
311	1547 " 1555	"	VINE - 0.2
312	1541 " 1545	"	VINE - 0.2
313	1557 " 1567	"	TUCK - 0.1
314	1589 " 1597	"	TUCK 0.0
315	1599 " 1607	"	TUCK + 0.2
316	1578 " 1587	"	TUCK + 0.15
	1664 " 1667	"	Chat - 1.0

PH-6102

COLOR PHOTOGRAPHY (LOW WATER)

PHOTO NOS	SCALE	STAGE OF TIDE
65-6534 THRU 6549	1:15,000	
6502 " 6521	"	HOLE + 0.4 WOOD + 0.7
6522 " 6533	"	HOLE + 0.4
6550 " 6560	"	HOLE + 0.4
6781 " 6795	"	HOLE + 0.4 BART + 0.5
6808 " 6824	"	CHAT + 0.3
7634 " 7652	"	CHAT + 0.5 PORT + 1.0
6951 " 6964	"	CHAT + 0.1 PORT + 0.2
6965 " 6981	"	PORT + 0.3
6929 " 6949	"	PORT + 0.3
6907 " 6928	"	PORT + 0.3 YARD + 0.2
6894 " 6906	"	PORT + 0.4 YARD + 0.2
6561 " 6573	"	YARD + 0.2
7778 " 7798	"	BART + 0.55
7676 " 7687	"	WOOD + 0.0 BITE + 0.1
6574 " 6582	"	BITE + 0.3
7667 " 7675	"	GAY + 0.8
7688 " 7713	"	BITE + 0.2
7799 " 7824	"	BITE + 0.4
6698 " 6706	"	BITE + 0.15
6625 " 6633	"	VINE + 0.4
7826 " 7836	"	TUCK - 0.1
6707 " 6723	"	WOOD 0.0
6729 " 6748	1:10,000	VINE + 0.4
6762 " 6780	"	CHAT + 0.1
6782 " 6794	"	CHAT + 0.1
7658 " 7666	"	CHAT + 0.2
6675 " 6683	"	WOOD + 0.4
6667 " 6674	"	VINE + 0.4
6685 " 6697	"	VINE + 0.4
6656 " 6663	"	VINE + 0.4
6634 " 6655	"	TUCK - 0.1
6584 " 6590	"	TUCK - 0.1
		GAY + 0.8
6607 " 6624	1:20,000	TUCK - 0.1
6606 " 6870	"	YARD + 0.4 WOOD + 0.7

For detailed information use large scale charts

NANTUCKET I

AUTHORITIES 6111652

Hydrography and topography by the Coast and Geodetic Survey with additions and revisions from the Corps of Engineers and the Geological Survey

6111633

TIDE STAFFS
'YARD' - CHART 260
'PORT' CHART 258

CHART 259

1:20,000

INFRARED

1:30,000

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