5741

on Diag. Ch. 1209-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. Office No. T-5741

LOCALITY

State Massachusetts

General locality Cape Cod

Locality Nantucket Bay

Date of Photos: 9 lens - 7-16-38 Single-lens-11-21-38

194 1

CHIEF OF PARTY

L. W. Swanson

LIBRARY & ARCHIVES

DATE

B-1870-1 (I

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Applied to chart 1209 2/24/43 G.H.E. (Rough draft - before review Applied to chart 259 (Before office review) Aug. 21, 1943 - J.T.W.

after review corrected bridge opening east of Little Saland on 1209 consider to be confletely afflied to thouch. Atequal
Chart 1209-7-3-73 Exam. NO. Cort. Previous Applied 8/21/50
Chart 1209-7-3-73 Exam. NO. Cort. Previous Applied 8/21/50
Supseded by T-12495. QC. & later photo revision

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1-5741

REGISTER NO.

State Cape Cod, Massachusetts
General locality Cape Cod
Locality Poponesset Beach to Wianno Beach
7/16/38 Scale 1:10,000 Date of survey 11/21/38 19
Yessek Air Photographic Party No. 2
Chief of party L.W. Swanson Shore Line
Surveyed byW. C. Russell and Loc. N. Henningsen
Inked by Joe N. Henningsen - Rough Draft
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated November 3, 1939 & Aug. 28., 1939
Remarks:

DATA RECORD T-5741

PHOTOGRAPHS

Numbers	Date	Time	Scale	Altitude	Stage	of	Tide	8*	_		
2376-2377 2389-2390 2 397	7-16-38 7-16-38	11:00-12:05 11:00-12:05 11:00-12:05	1:10,000		about "	tt	ft.e	π abo ve	tt	L.i	47
5-47 + 5-50 5-94 + 5-98	11 -21- 38 11 -21- 38		и 11	,	single single						

* Tide from prediction tables for Station, Succonnesset Point, Masse mean range 1.9 ft., spring range 2.3 ft.

Camera: ----U. S. Coast and Geodetic Survey nine lens camera.

Focal length 81 inches.

Negatives on file in Washington Office.

SUPPLEMENTAL SURVEYS

The details on T-5741 are of the date of the photographs. } he never of book.

GENERAL INFORMATION

Chief of PartyL. W. Swenson.
Projection by Washington Office, Rule Mach Dec. 5,1938.
Projection Checked by Washington Office
Control Plotted byL. W. Swanson, 1-7-39 Joe N. Henningsen Nov. 25,1941.
Control Checked byW. E. SchmidtJan. 9, 1939Nov. 25,1941.
Radial plot made by L. W. Swanson Joe N. Henning son
Radial points by W. E. Schmidt. &W. Russel Dec. 13,1939.
Additional radial points by Joe N. Henningsen Dec 1941.
Shoreline inked by
Shoreline Checked byJoe N. Henningsen
Detail Rough draftJoe N. HemmingsenDec 1941.
Scale

STATISTICS

Area land	statute miles
Shoreline (more than 200 meters from opposite shore).25.0	statute miles
Shorelane (less than 200 meters from opposite shore).10.0	statute miles
Roads, streams and trails	statute miles
Time for detailing interior	21 days
Time for checking shoreline and other detail	4 days

REFERENCE STATION

Oyster Harbors tank, 1934

Datum North America 1927.

Latitude:-----410 371 207.0 (1644.1) meters.

Longitude:-----200 24: 1278.4 (110.6) meters.

X = 896, 591. 20 3000

· Ye= ~ 227 275.77

DESCRIPTIVE REPORT

to accompany

AIR PHOTOGRAPHIC SHEET NO. T-5741 STATE OF MASSACHUSETTS

NANTUCKET SOUND -- CAPE COD MASSACHUSETTS

Date of this report December 18, 1941

INSTRUCTIONS:

This rough map drawing is a part of Project No. HT-227 dated August 15, 1939, and supplemental instructions contained in the Director's letter dated November 3, 1939. Instructions to make the rough draft were dated August 28, 1939.

CONTROL:

The control consists of stations shown on this sheet by the triangulation symbol. The following is a list of the control and its sources:

U.S.C.&G.S. -

Byrnes Water Tank, 1934

Deems Water Tank, 1934

South Mashpee, 1934-35

Cotuitport, Church Spire, 1934

Osterville Church, 1934

Oyster Harbors Tank, 1934

Beacon, Mouth West Bay, 1934

M.G.S. -

M28RH M28RF M28RD M28RC M28SH M28SJ M28SJ M28RJ M28RJ	104C 104D 104E 114E 124P 124N
M28RB	
M28PD	

RADIAL PLOT:

There were two plots run for this sheet. The first was run on January 13, 1939, by the template method. At this time the control consisted of Coast and Geodetic Survey stations mainly along the coast. The plot was considered satisfactory in view of the existing control. The shoreline and hydrographic stations were completed and the sheet filed in the Washington office until October 21, 1941. At the time of the original field inspection and radial plot there was no interior control available with the exception of two M.G.S. stations. Approximately one year later a series of M.G.S. traverse stations were complete and available for our use. A sufficient number of them were field inspected to fix the majority of the photographs on the map drawing. It was found that when these stations were plotted on the map drawing they did not check the original plot, therefore, it was decided to rerun the plot. The plot was accordingly rerun by the template method with the additional control, using three flights of additional single lens pictures which had been procured from the Geological Survey after the first plot had been run.

Some difficulty was encountered in distortion of the pictures, but the difficulties were ironed out and the new plot was accepted as being satisfactory for this sheet. It changed somewhat from the previous plot. The radial line intersections for this sheet were very satisfactory and all intersections of three radials or more were pricked. All cuts which were close to the center of the photos and turned out to be wild cuts were ignored. This is also true of the cuts outside of the large red circle on the nine lens photos. All intersections pricked were three line intersections or more.

DETAILING:

The area within the limits of this map drawing was well covered by photographs except in the N.W. corner. This area comprises a little over one square mile and was detailed using point determined by intersections of two radials. These points were circled in green as were all two cut intersections over the entire sheet, and detailing was carried on using them with that in mind.

Sections of this sheet that required too much adjustment due to scale difference were deleted with the aid of the projector.

delineated?

Field inspection was not very complete in the designation of road classes, especially in the towns of Cotuit and Osterville. Therefore, town maps and additional maps on hand were used to determine the classification. The town maps are being submitted with the map drawing.

Where possible all buildings along the shore line were shown. In the towns the public buildings were shown and in outlying sections all the buildings with the exception of minor outbuildings were shown.

On the lower part of the sheet the field inspection did not designate the class of roads too well. Therefore, the best available means of labeling the roads was used, combined from other maps and a discussion with Lieut.

E. B. Lewey who did work in the area north of the coast.

Due to the hurricane of September 21, 1938, and the subsequent year, there were some changes in the shore line. These changes were noted by Lieut. E. B. Lewey in the summer of 1941 and the revisions made accordingly on the map drawing.

The drainage on this sheet was examined under the stereoscope where there was any doubt to its position.

Two state highways appear on this sheet. They are State No. 28 and State No. 130.

All double full and double dash line roads are to be shown as 6 meters in width.

All trails were shown with the dash symbol.

All fences were shown as long dash lines with an intermittent x symbol.

Ditches were labeled.

Most of the wooded area on this sheet is shown in scant detail,

and the most prominent classes of trees named in the interior of the area.

It should be noted that a number of roads and streets are shown in full detail. They include the two state highways and all the streets in the vicinity of Cotuit and Osterville.

FIELD INSPECTION:

It will be noted that the various sets of photographs differ as to the small docks. The field inspector states that many of these docks are removed during part of the year. Therefore, we have shown all the docks on the various photographs.

The sheet was detailed according to the field inspection everywhere that it appeared.

Field inspection by A. L. Wardwell from Nov. to December, 1938, and by Lieut. E. B. Lewey in the summer of 1941.

RECOVERABLE HYDROGRAPHIC SIGNALS: None put on this sheet.

RECOVERABLE TOPOGRAPHIC STATIONS:

One recoverable topographic station appears on this map drawing. It, is listed on Form 524.

LANDMARKS FOR CHARTS:

Three landmarks for charts appear on this sheet. They are listed in Form No. 567. 4 Immarked to nautual Charles Section.

Chart Letter 111 - 1945

GEOGRAPHIC NAMES:

Geographic names shown on this sheet are listed on Form M234 in the appendix. Field inspection of names by Lieut. E. B. Lewey and Ensign F. G. Bryant.

JUNCTIONS:

This survey is joined on the west by Sheet T-5742 and on the East by T-5740. Due to the fact that the radial plot was rerun for T-5741 it is probable that the plots for the adjoining sheets will also have to be rerun. Therefore, there is no junction in detail at this time.

COMPARISON WITH PREVIOUS CHARTS AND SURVEYS:

Chart 1208: There is not enough detail in the interior of this chart to be able to make a comparison, but the shoreline as shown on this map drawing is in good agreement with T-5741.

Chart 1209: The same can be said of Chart 1209 as was said of 1208.

Survey T-1998: The interior detail of this sheet and the previous survey are in good agreement. The shoreline agrees very well with the exception of the sand spit north of Poponesset Beach, Dead Neck, and Simpsons Island. These points have all changed considerably and it might be added that these places mentioned change from time to time due to the conditions of this area.

BRIDGES:

One bridge exists over West Bay It is a drawbridge single bascule type, and is described on the map drawing from information obtained in the field.

RECOMMENDATIONS FOR FUTURE SURVEYS:

The detail on this sheet is believed to be complete in all importance for charting.

The probable error of radial points and well defined objects along the shore line is not greater than 0.5 m.m. The error of other detail of importance on this sheet is probably not greater than 1.0 mm. where radial points have been determined from three or more photographs.

Respectfully submitted,

Joe N. Henningsen

Senior Photogrammetric Aid

d and Approved:

Chief of Party

	GEOGRAPHIC NAMES		/	Ser Constitution of the Co	of Jan Son	\$ x/	/	/	Mad Market Marke	ALIOS /	10
	Survey No.		1000	ion of	S. May	Strate of Strate	A STATE OF THE PERSON OF THE P	O Guide of	ACHAIN	15 S.	10 10 10 10 10 10 10 10 10 10 10 10 10 1
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-	Rock Landing	,		x							1
-	Dean Pond	1	x	x	11					x	2
-	Great Neck, Poponesset Creek	1 -		x	11	x				x	3
-	* Island	x		x	13	x				x	4
_	Holly Marsh	V		x	,						5
	Daniels Id.	1		x		x					6
-	Little Thatch Id.	//	4	x							7
-	Thatch I	x	x	x	11	x				x	8
-	Poponesset Beach	x	x	x	11	x			7	x	9
-	Poponesset Bay	x	x	х	11	x				x	10
-	Pocknett Neck	V		x]1_
-	Wells Pond	1 /	£-	Jim	13		l.			-	1^
-	Witch Pond	1 1		x							13
-	Anns Cove	/ /		x							14
-	Ockway Bay	1 ~	x	x	11					x	15
1	Punkhorn Pt.	/ /		х							16
-	Gooseberry Id.	x	х	x	13	x				x	17
-	Mashpee Neck	x	х	х	13					x	18
-	Mashpee River	/ x -	x	x	13			-		x	19
-	Mashpee	/ /		x	13	x					20
<u>a</u>	Santuit River	~ ~		х	13						21
-	Coombs Pond	1		x	13						22
-	Amos Pond	/ /		x	13						23
-	Santuit Pond	1		x	11 &	х	· ·			x	24
-	Lovells Pond	/		x	11	х	7 ,			x	_0_
-	Santuit	~		x	13	х					26
-	Lewis Pond	//		x	11	1	*	~			27
			11.3								M 234

Decisions Remarks. _10 nown as Jim Pond on U.S. Quadrangle Map __15_ __19

	GEOGRAPHIC NAMES Survey No.			5° 2'	Net Suedies	\$.x./ 57	036	, / ૢૺ	Mag Mali	ALIDE	S. S
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	Fullers Marsh	/	ļ	_ x _				ļ		ļ.,	1
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-	Meadow Point	<u></u>		х	11	x		<u> </u>		ļ	4
	Rushy Marsh Pond	, ,			11	x		ļ	<u> </u>		5
~	Cotuit Highlands	/ x /	<u>x</u>	_x_	11					_x_	6
	Bluff Pt.	/x		x	11	х					7
	Cotuit /	Port x	<u>_x_</u>	x	11	x		x	x		8
-	Handy Pt.	, <u>~</u>		x	11	x	<u> </u>				9
~_	Cotuit Bay	x	x	_x_	11 Harbor	•					10
-÷	Eagle Fond			х		ж				x	11
	Prince Cove	1		х	11	х					
	Great Bay	x _	x	x	11 North					X	13
~	Pt. Isabella	x		х	11	x					14
~	Tims Cove	, .		x	11	x					15
،۔۔ ،	Sampsons Id.	x <u>∽</u>	x	х	11	x				x	16
	Cotuit Anchorage	x									17
	Dead Nack	/ x _	x	x	11	x				- X	18
	Seapuit River	x		х	11	x					19
_	Osterville Grand Islan	7	х	х		Oyster Grand Hbr				х	20
	Little Island	x	,	ж	11					x _	21
	West Bay	x		x	South 11	х			×		22
	Eel River	x		x	11	x					23
	St. Mary's I	~		х_							24
	Ishem Pond	V-		x							
	Pine I	Į.		х							26
	· Dam Pond	1	·	x		x	,	-			27
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Decisions Remarks. 8 Known as Cotuit Port on Chart No. 1209 10 Known as Cotuit Harbor from local information 11 13 Known as North Bay from local information 14 15 16 17 18 19 20 Known as Cyster Grand Harbor on Barnstable City Map 21 Known as South Bay from local information 23 25 26 27 M 234

	GEOGRAPHIC NAMES Survey No.			Self.			0.6	/ 6	Mo.	ARILL .	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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ī	Name on Survey	/ A,	/ B,	/ c,	y D	É	/ F	/ G	<u>/ H</u>	/ K~	***
	Bog Pond	~		x	11						1
~-	Sam Pond	/ _		x	11	х				<u> </u>	2
-	Osterville	x -	x	x	11	x		×		 x	3
_	Parker Pond	v		х	11	<u>x</u>				x	4
	Neck Pond	· /		x	11_	x				<u>x</u>	5
	Nantucket Sound	x	х	x		x			x	x	6
	Oyster Harbors Beach	, _V		x	11					<u> </u>	7
	Tims Point				•						8
	Oyster Harbors	/		-							9
	(11) F. D. Weatherbee,	Barns	table	Planni	ng Boa	rd. Hy	annis.	Mass.			10
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REVIEW OF AIR PHOTO COMPILATION NO. T-5747

Chief of Party: J. W. Swanson

Compiled by: W.C.Russell &

J. N Henningsen.

Project: HT 227

Instructions dated: Nov. 3 1939 Aug. 28, 1939.

- 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and #; 26; and 64)
- 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)

 There are no ground surveys.
- 4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

 The Map of Barnstable is not forwarded with this Map Drawing as it is needed for the adjoining sheets.
- Differences between this compilation and contemporary plane, table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

There are no contemporary surveys.

- 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 125; 44; and 66 c. 4,1)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 57, 58, 59, 40, 42)
- 9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 35, 36, and 57)
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- 11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S.G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 65k)
- 13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight.
- 6. All drawing has been retouched where partially rubbed off.
- 7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 89, 40, 42, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

16 19 single lens 64x 9 prints, taken after the hurricane are forwarded with this map drawing. (M 120-24 to M 120-38)

18. Examined and approved;

Lu Swauson Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examained and approved;

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

Division of Photogrammetry

Review of Planimetric Map T-5741

Field Inspection and Detailing.

This project was started in 1938 and the detailing was not completed until December 1941. The various steps in completing the map are described in detail in the descriptive report, but are outlined here for convenience.

- 1. Nine-lens photography July 1938.
- 2. Severe hurricane September 1938.
- 3. Single-lens photography (U.S.G.S.) November 1938.
- 4. Partial and incomplete field inspection in November-December 1938 on nine-lens photographs. Very little shoreline information.
- 5. Radial plot from 1 and 4 above in January 1939. (Plot weak because of poor photographs and lack of control.) Detailing of shoreline only in February 1939.
- 6. Hydrography using shoreline and signals from 5 above in July to October 1939.
- 7. Additional field inspection in the summer of 1941 to recover Mass. Geodetic Survey control and field inspection of interior details. (Limited inspection of shoreline of 5 above.)
- 8. Second radial plot November 1941. (No changes were made in position of shoreline shown on 1939 plot, but only in position of interior points.)
- 9. Re-detailed entire sheet, using 3 above, without field inspection, in preference to 1 because of hurricane, December 1941.
- 10. Graphic Control Surveys, 1942, furnishing revised shoreline only, in some parts of the area.

Mean High Water Line.

This is as of the date of the single-lens photographs, November 1938, except for the shoreline from Succonnessett Pt. to Poponessett Beach and Wianns Beach. These portions of shoreline were taken directly from Graphic Control Surveys T-6886c and T-6887a & b, both done in 1942. The point at Sampson's Island and the point at Tim's Cove are taken from Hydro. Survey H-6469 done in 1939. At these places, the shoreline was independently located by the hydrographic party using sextant fixes and indicating said relocated line in red ink on the hydro. sheet.

The nine-lens photographs were rejected because of changes due to the hurricane and inadequate field inspection.

In general, signal sites located by both surveys do not disagree in position by more than one-half millimeter. In cases where disagreement exceeds this amount, the variation is probably due to failure to locate identical points.

Comparison with Contemporary Hydrographic Surveys.

H-6469 1:10,000 1939

Shoreline and signals for this survey were taken from the 1939 plot of T-5741. There are no discrepancies between the two surveys except for shoreline in the vicinity of Sampson's Island and Tim's Cove where revisions were noted by the hydrographic party, and for the more recent shoreline in the vicinity of Poponessett Beach located in 1942 by graphic control surveys.

A rock awash at $41^{\circ}36.2! - 70^{\circ}25.8!$ should be plotted in the position shown on graphic control sheet T-6887.

All these revisions were applied to the manuscript during review.

The changes in signal sites mentioned under Mean High Water Line are not of sufficient magnitude to seriously affect the hydrography.

H-6468

1:10,000

1942

Shoreline for H-6468 was taken from the 1939 plot and does not agree with that shown on the compilation. The compilation shoreline was taken from the 1942 graphic control surveys and is to be preferred. Signals on H-6468 are taken from the graphic control surveys and are not affected by the compilation. A rock awash at 41°33.7' - 70°28.3' shown on the hydro. sheet does not agree with the graphic control survey, which position should be accepted.

Comparison with other Topographic Surveys.

Superseded	(318			1:10,000	1846	
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	(1999			. 11	11	
	*6886c			11	1942	
=	*6887a	&c	þ	tt	11	

*These graphic control sheets indicate complete shoreline in the Poponessett Beach and Wianns Beach areas. This is accepted as the best available shoreline. "It has been applied to the manuscript.

Comparison with Nautical Charts.

T-5741 was applied to charts 259 and 1209 prior to this review. A considerable portion of the mean high water line was revised during review in accordance with the preceding paragraph entitled Mean High Water Line. This revised section is shown in red on the manuscript.

Comparison with Quadrangles.

Superseded - Barnstable, Mass. 15' (1:62,500) Ed. 1893 - Rep. 1938.

Cotuit, Mass. $7\frac{1}{2}$! (1:31,680) 1942

No significant discrepancies except for extensive shoreline changes in the vicinity of Camp Cotuit, at the northwesterly shore of Great Bay, cultural features probably constructed since the field inspection for this sheet. Reviewed by:

Reviewed under direction of:

Engr. Drafts. Mar. 3, 1945 Assoc. Carto. Engr.

APPROVED BY:

Techmical Assistant to the Chief, Nautical Chart Branch Chief, Div. of Photogrammetry Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys