13099

Diag. Cht. No. 1207-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Field No. Office No. T-13099
LOCALITY
State Massachusettés
General locality Green Harbor - Brant Rock
Locality Green Harbor River
•
1966-67
CHIEF OF PARTY V. Ralph Sobieralski Wash., Chief, Photogrammetry Division D. C.
LIBRARY & ARCHIVES
DATE April 24, 1968

COMM-DC 61300



FORM C&GS-181a

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 13099

PH - 6707 FIELD OFFICE (II): Norfolk, Va. (Green Harbor, Mass.) PHOTOGRAMMETRIC OFFICE (III): Washington, D. C. INSTRUCTIONS DATED (II) (III): October 4, 1966 - Field November 2, 1966 - Office	CHIEF OF PARTY J. C. Bull (J. Wilson) OFFICER-IN-CHARGE V. Ralph Sobieralski			
(Green Harbor, Mass.) PHOTOGRAMMETRIC OFFICE (III): Washington, D. C. INSTRUCTIONS DATED (II) (III): October 4, 1966 - Field	(J. Wilson) OFFICER-IN-CHARGE			
(Green Harbor, Mass.) PHOTOGRAMMETRIC OFFICE (III): Washington, D. C. INSTRUCTIONS DATED (II) (III): October 4, 1966 - Field	OFFICER-IN-CHARGE			
Washington, D. C. INSTRUCTIONS DATED (II) (III): October 4, 1966 - Field				
Washington, D. C. INSTRUCTIONS DATED (II) (III): October 4, 1966 - Field				
INSTRUCTIONS DATED (III) (IIII): October 4, 1966 - Field	V. Raiph Sobietaisa.			
October 4, 1966 - Field				
November 2, 1966 - Office				
METHOD OF COMPILATION (III):				
B-8 Stereoplotter				
NUSCRIPT SCALE (III): STERE	SCOPIC PLOTTING INSTRUMENT SCALE (III):			
1:5,000				
DATE RECEIVED IN WASHINGTON OFFICE (IV): DATE F	EPORTED TO NAUTICAL CHART BRANCH (IV):			
DATE RECEIVED IN WASHINGTON OFFICE (IV).	SKIED TO MICHOLE CHARLES CHARLES TO THE CONTROL OF			
APPLIED TO CHART NO. DATE:	DATE REGISTERED (IV):			
GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): NWW *			
GEOGRAFIIC DATOM (III).	MEAN SEA LEVEL EXCEPT AS FOLLOWS:			
N.A. 1927	Elevations shown as (25) refer to mean high water			
	Elevations shown as (5) refer to sounding datum			
	i.e., mean low water or mean lower low water			
	* see note on map con-			
	CELVINA LACKE CEMOSA			
REFERENCE STATION (III):	10.10			
BRANT ROCK SEAWALL DATUM	1940			
LAT.: LONG.:	[ADJUSTED			
42°05' 28 181" 70° 30' 311 010'				
PLANE COORDINATES (IV):				
398,782.0 ×= 832,599.03	Mass. Mainland			
398,782.0 - 002,003.00				
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY () FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,			
OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURN				
42°05'28.181" 70° 38' 34.962' PLANE COORDINATES (IV):				



FORM C&GS-181b

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

October 1966 FIELD INSPECTION BY (II): * Field Edit by: See below E. W. Hartford E. W. Hartford * July 1967 MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): From tide controlled infra red photography taken Sept. 17, 1966 DATE PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree 11 - 21 - 66 PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser 11-22-66 DATE CONTROL PLOTTED BY (III): M. Webber 2-24-67 DATE CONTROL CHECKED BY (III): R. A. Youngblood 2-24-67 DATE RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. Kelly 2-15-67 DATE STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY 3-17-67 R. A. Youngblood DATE CONTOURS/ MANUSCRIPT DELINEATED BY (III): R. A. Youngblood 3-24-67 SCRIBING BY (III): DATE DATE PHOTOGRAMMETRIC OFFICE REVIEW BY (III): J. P. Battley, Jr. Jan. 1968

REMARKS:

F.E. APPLIED AUG. 1967

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

	PH	DTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	S.	TAGE OF TI	DE
66 W(C) 1370 thru 1374	9-17-66	17:34	1:15,000	0.6	' above	MLW
66 W 3430R thru 3433R	9-17-66	14:05	1:15,000	0.9	above N	1HW
					·	٠
		TIDE (III)		RATIO OF	MEAN	SPRIN
	Peaten Compos	t Doint		RANGES	P.2	RANG
FERENCE STATION:	Boston, Gurnet	U TOTHU			7.2	
ORDINATE STATION:						
ORDINATE STATION:						
HINGTON OFFICE REVIEW BY	(IV): J. P. Bat	tley, Jr.		DATE:	Jan. 196	8
OOF EDIT BY (IV):				DATE:		
MBER OF TRIANGULATION ST	ATIONS SEARCHED FOR	: (II) :	RECOVERED:	IDENTIFIE	ED:	
MBER OF BM(S) SEARCHED FO	OR (II):		RECOVERED:	IDENTIFIE	ΞD	
BER OF RECOVERABLE PHO	TO STATIONS ESTABLIS	SHED (III):		-		
BER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III):				
ARKS:						
						•

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-13099 Job PH-6707 January 1968

T-13099 is a 1:5,000 scale shoreline survey compiled to provide a new manuscript for hydrographic surveys and to be used as a base for an inset to be included on 1:80,000 scale chart 1207.

The area covered is the Green Harbor River and the coastline of Massachusetts Bay from Brant Rock to just south of Green Harbor River entrance.

Hydrographic surveys had been planned for the spring of 1967, but were delayed and as of the date of this report have not been rescheduled.

Field inspection, encompassing the recovery and identification of horizontal control, the location of landmarks and the identification of shoreline features, was completed in October 1966.

A photogrammetric bridged was achieved in February 1967 utilizing the C-8 stereoplanigraph.

The compilation of the manuscript was completed in the Washington Office in March 1967.

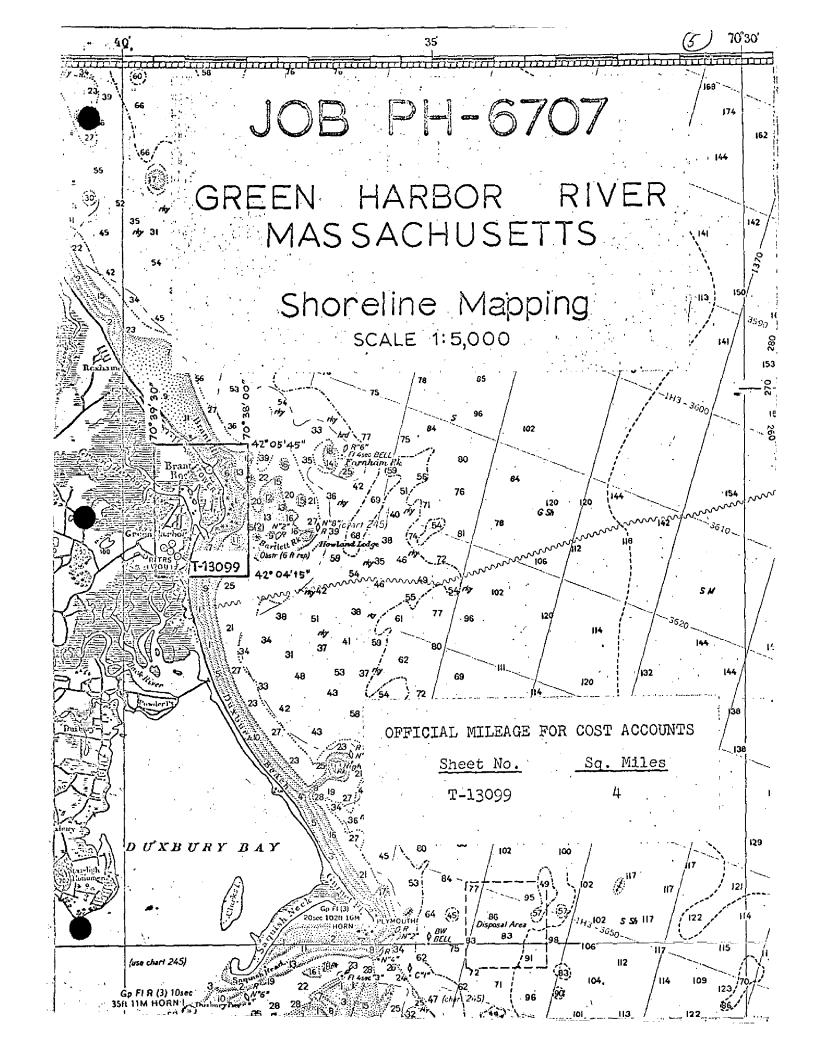
Field edit of the compiled features was accomplished July 17 and 27, 1967, and the few additions or corrections applied to the manuscript in August 1967.

A comparison print was prepared and submitted to the Marine Chart Division to point out rock descrepancies realized by the new survey (see the Review Report, Item 65).

A copy of the manuscript will be registered in the Bureau Archives under T-13099.

Submitted by:

Jeter P. Battley, Jr.



(6)

FIELD INSPECTION REPORT T-13099 PH-6707 GREEN HARBOR RIVER, MASS.

This report is submitted for one map T-13099. Field work was completed October 26, 1966, and was performed in accordance with Instructions dated October 4, 1966.

AREAL FIELD INSPECTION

The area is the immediate vicinity of Brant Rock and Green Harbor, and is a summer resort which is served by State Highway 139.

The photographic quality was good for inland features, but just fair for alongshore features.

Photographs used for field inspection are listed below: 66-W-3571 color "3572"

" " 3572 " " " 3573 "

HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

VERTICAL CONTROL

There was no vertical control recovered.

CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is entirely composed of tidal streams.

WOODLAND COVER

Woodland cover was classified in accordance with the Topographic Manual.

SHORELINE AND ALONGSHORE FEATURES

The high water line is to be delineated from infrared photography. All other shoreline features are covered by field inspection notes on the photographs. All rocks are shown on Photograph 66-W-3572 color print. There are numerous rocks in this area, and are about all above the low water line.

7

LANDMARKS AND AIDS

Four nautical landmarks have been recommended for charting. Form 567 is submitted for each.

There are no fixed aids in the area covered by map T-13099.

OTHER CONTROL

One Three Point Fix was taken near station 29 V MGS.

INTERIOR FEATURES

All roads were classified in accordance with Photogrammetric Instructions No. 56.

There are no Swamps in this area.

The marsh limits are to be delineated from infrared photography.

All field Data sent to Rockville, Maryland on 10-26-66.

Submitted by: 26 October 1966 E. W. Hartford Chief, sub-unit, Photo Party 62

Eles Hartand



PHOTOGRAMMETRIC PLOT REPORT JOB PH-6707 GREEN HARBOR RIVER, MASSACHUSETTS

February 15, 1967

21. Area Covered

The report covers T-sheet 13099 of Green Harbor River, Massachusetts.

22. Method

A horizontal bridge was run to provide control for graphic and B-8 compilation. The C-8 was used for the instrumentation. Photographs 66-W(C)-1370 thru 1374 were used in bridging. The adjustment on the IBM 1620 utilized four control stations with two stations used as checks.

23. Adequacy of Control

The horizontal control provided complied with the project instructions and was adequate except for BRANT ROCK WIRELESS POLE. The adjustment indicated a shift in the position of this station. Reference is made to USC&GS, Descriptions of Triangulation Stations Book 514, page 10, that BRANT ROCK WIRELESS POLE should not have been used and should be deleted from the triangulation records.

All other stations held well within the accuracy required by National Standards of Map Accuracy at 1:5,000 scale.

25. Photography

Contact prints were adequate as to coverage, overlap and definition. Diapositives were found to be very grainy.

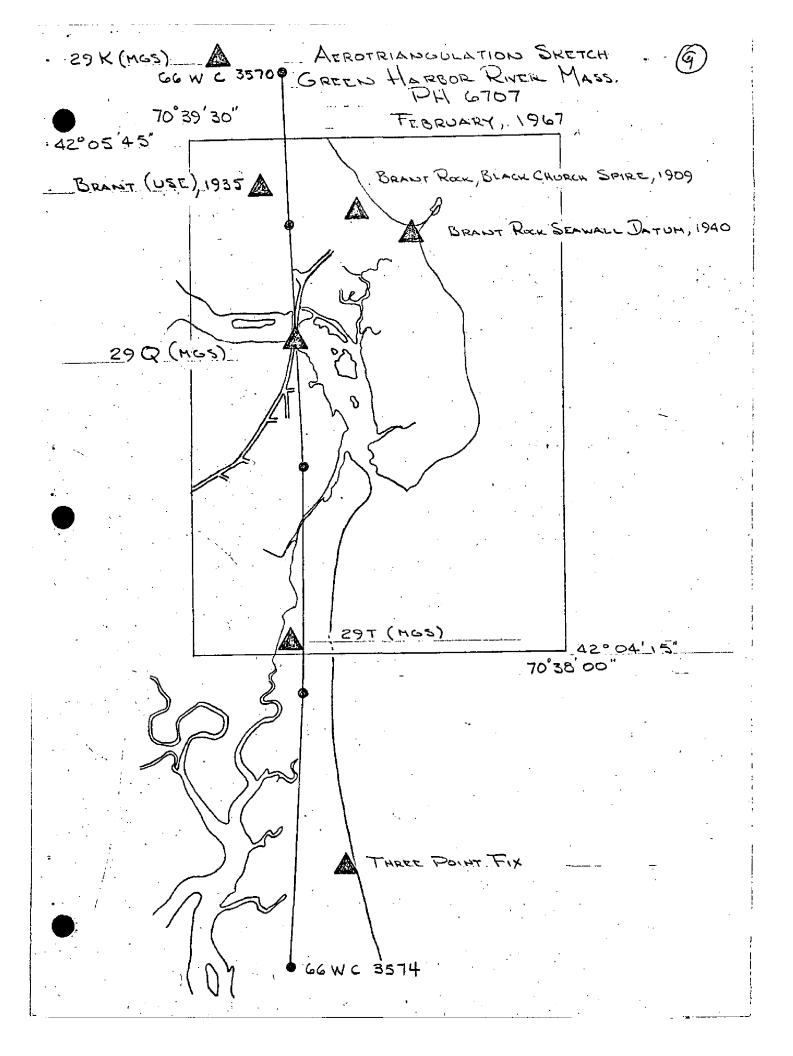
Submitted by:

Robert B. Kelly

jn jv

Approved by:

John D. Perrow.



U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

PROJECT NO. PH-6707

MAP T. 13 0 99

FORM **164** (4-23-54)

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE OF MAP 1:5000

SCALE FACTOR.....

PROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM - DC - 5784 (BACK) FORWARD (BACK) N.A. 1927 - DATUM DATE FORWARD DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY: April 191968 FORWARD 40.474 04.604 06.542 LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE S.G. Blanken baker 34.962 42 04 16.040 32,46 28.181 48.31 ×-829,694.38 y=399,723.46 39 70 39 P 5 70 38 38 05 20 42 42 43 20 DATE DATUM SOURCE OF INFORMATION BRANT (USE) 1935 SEAWALL BATUM BRANT ROCK BLACK CHURCH SPIRE, 1908 BRANT ROCK 1 FT = 3048006 METER Y MGS STATION COMPUTED BY 29 Q IN 65 1966 19 66 50



COMPILATION REPORT PROJECT PH-6707 T-13099 APRIL 1967

31. Delineation

This manuscript was compiled, at a scale of 1:5000, on the B-8 stereoplotter, utilizing 1966 color photography (scale 1:15,000). This photography was taken when the tide was .6' above MLW and afforded an interpretation of foreshore rocks. The shoreline was delineated from tide controlled infrared photographs taken at MHW.

Points were dropped along the shoreline to facilitate hydrographic signal location and cronapaque ratio prints of the color photography were resected to the manuscript and prepared in the usual manner for photohydro support. The 3 time ratio of the color photography was printed in black and white.

This manuscript was also delineated to the limits of the survey according to Marine Chart specifications to provide a new base manuscript for Chart 1207.

32. Control

Bridge points furnished by Aerotriangulation were sufficient to adequately compile the manuscript and to locate pass points for photo-hydro support.

33. Supplemental Data

None

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

No unusual problems were encountered in compiling the MHWL.

36. Offshore Details

There are numerous rocks in the area. They were delineated as visible on the photography and in accordance with field inspection.

37. Landmarks and Aids

All landmarks recommended by the field inspector were located in the photogrammetric bridge. There are no fixed aids in the area.

38. Control for Future Surveys

None

39. Junctions

There are no junctions in this project.

40. Horizontal and Vertical Accuracy

See bridging report.

41. - 45.

Inapplicable

46. Comparison with Existing Maps

A comparison was made with USGS quadrangle, Duxbury, Mass., scale 1:24,000, 1961.

47. Comparison with Nautical Charts

A comparison was made with Chart 1207, scale 1:80,000, 6th Edition, March 1966 and Chart 245, scale 1:20,000, 4th Edition, November 1964.

Approved by

K. N. Maki

Chief, Compilation Section

Submitted by

Rose A. Youngblood
Rose A. Youngblood

FORM C&GS-1002

U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY

PHOTOGRAMMET	RIC	OFFICE	REVIEW
T	17	000	

		T-	13009 13099	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
V			V	/
CONTROL STATIONS				
5. HORIZONT AL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERA OF LESS TO (Topographi	BLE HORIZONTAL STATIONS HAN THIRD-ORDER ACCURACY of stations)	7. PHOTO HYDRO STATIONS
8. BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
	FIXES		PLOT REPORT	~
ALONGSHORE AREAS (Nautica	1 Chest Date)	,		
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
V			In Review Report	13. BRIDGES
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE
None	V		VI TRICAL PEATURES	CULTURAL FEATURES
PHYSICAL FEATURES			-Mariana	
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES	1		1,	
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL
	\ \ \ \	/		FEATURES
BOUNDARIES	1			I
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
MISCELLANEOUS			L	
33. GEOGRAPHIC NAMES No Field name	e check	34. JUNCTION	S	35. LEGIBILITY OF THE
36. DISCREPANCY OVERLAY	37. DESCRIPTION	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
40. REVIEWER	1		ISUBERVISOR REVIEW CECTION	CORLIGIT
40. REVIEWER P.	Sattley	h	SUPERVISOR, REVIEW SECTION I I	OR UNIT
41. REMARKS (See attached shee		IONS TO THE M	ANUSCRIPT	
	furnished by the	e field complet	ion survey have been applied to	the manuscript. The manu-
facqueline.			K.M. Ma	ki
43. REMARKS				

(4)

FIELD EDIT ROPORT Special Project AMC-7-67 Green Harbor T-13099 PH-6707

GENERAL NOTES

This report is submitted in accordance with instructions dated 20 June 1967, and is for one map field edited the 17 and 27 of July 1967.

51 METHODS

Field edit was accomplished by two methods, by truck and skiff travel.

Additions, and corrections are noted on the discrepancy printin violet ink and referenced to the photograph 66 \ 3571 and 3572

52 ADEWHACY OF COMPLIATION

The delineation of rocks and other features of the map locked very good, the compilers interpretation of the photographs was good.

54 RECOMMENDATIONS

None

56 RACKS

Sextant fixes were taken on two sunken rocks to verify location, also to locate a rock just south of the sunken rocks at the end of a rocky area, these fixes are plotted on the discrepancy print along with the angles.

The rocks delineated just east of Bluefish Point could have been lobster pot buoys.

57 SHOALS

One shoal off Green Herbor Point is recommended to be developed by Hydro, this is a very large shoal with a rocky bottom and covers at **! From 1 foot to about 10 feet.

58 LANDMARKS

All lan marks were visually checked and verified, there are no additions or deletions.

31 July 1967 submitted by

E.W. Hartford

ce: Resure

Wilson



REVIEW REPORT T-1-3009 Shoreline Survey January 1968

61. General Statement

See summary in Preface.

62. Comparison with Registered Topographic Surveys

Comparison was made with T-11170. T-11170 was compiled in October 1955 from 1952 photography, supplemented by field inspection in July 1953. The survey was reviewed in June 1964 by the Washington Office, Review Section, and listed as superseding prior surveys for nautical charting.

T-13009 supersedes survey T-11170 for nautical charting.

63. Comparison with Maps of Other Agencies

USGS quadrangle, Duxbury, Mass.; 1:24,000 scale; dated 1961.

No significant differences, other than new shoreline structures, were noted.

64. Comparison with Contemporary Hydrographic Surveys

New hydrography at 1:5,000 scale is planned for the area of this survey, but at present, the manuscript was compared with H-8164, 1:10,000 scale, dated 1954-55. The shoreline on this hydrographic survey originated with T-11170. H-8164 had rock data that was not shown on T-11170. The 1964 Review Report for T-11170 noted this and indicated that color photography and additional field inspection would be required to map and check the rock information. The 1966 field inspection and 1966 color photography revealed many more rocks than those previously charted or evident on H-8164. One shoal area off Green Harbor Pt. was particularly recommended for development by hydrographic surveys in the field edit report.

65. Comparison with Nautical Charts

Chart No. 245, 5th Edition, May 8, 1967, 1:20,000 scale. A comparison was made with the above listed chart and a comparison print prepared. There are two bare rocks off

Green Harbors Pt. which are not shown on the published chart, along with numerous field inspected rocks awash. The elevations of the two bare rocks as shown on T-13099 were determined in the field. In addition, Bluefish Pt. is shown as Blue Fish Pt. on the chart. The Geographic Names Section verified that one-word spelling, "Bluefish", is correct.

66. Adequacy of Results and Future Surveys

This map complies with the project instructions and the National Standards of Accuracy. The many rocks awash shown were visible on the color photography, indicated by field inspection and verified by field edit. The 1:5,000 scale of the survey afforded a more detailed delineation of rocks in the area. The shoal area mentioned in the Field Edit Report should be developed by new hydrography.

Reviewed by:

Jeter P. Battley, Jr.

Approved by:

Chief, Photogrammetric Branch Ma.

Ralph soveralski

Chief, Mari

Marine Chart

Chart Divisi

GEOGRAPHIC NAMES FINAL NAME SHEET PH-6707 (Green Harbor, Mass.) T-13099

Bluefish Point

Brant Rock (rock)

-Brant Rock (town)

Green Harbor

Green Harbor Point

-Green Harbor River

· Massachusetts Bay Cut River -

Approved by:

A. Joseph Wraight Chief, Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

፤ C&GS FORM

U.S. DEPARTMENT OF COMMERCE C SURVEY COAST AND GEOR

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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STRIKE OUT TWO

Washington, D. C.

89

January

V. Ralph Sobieralski

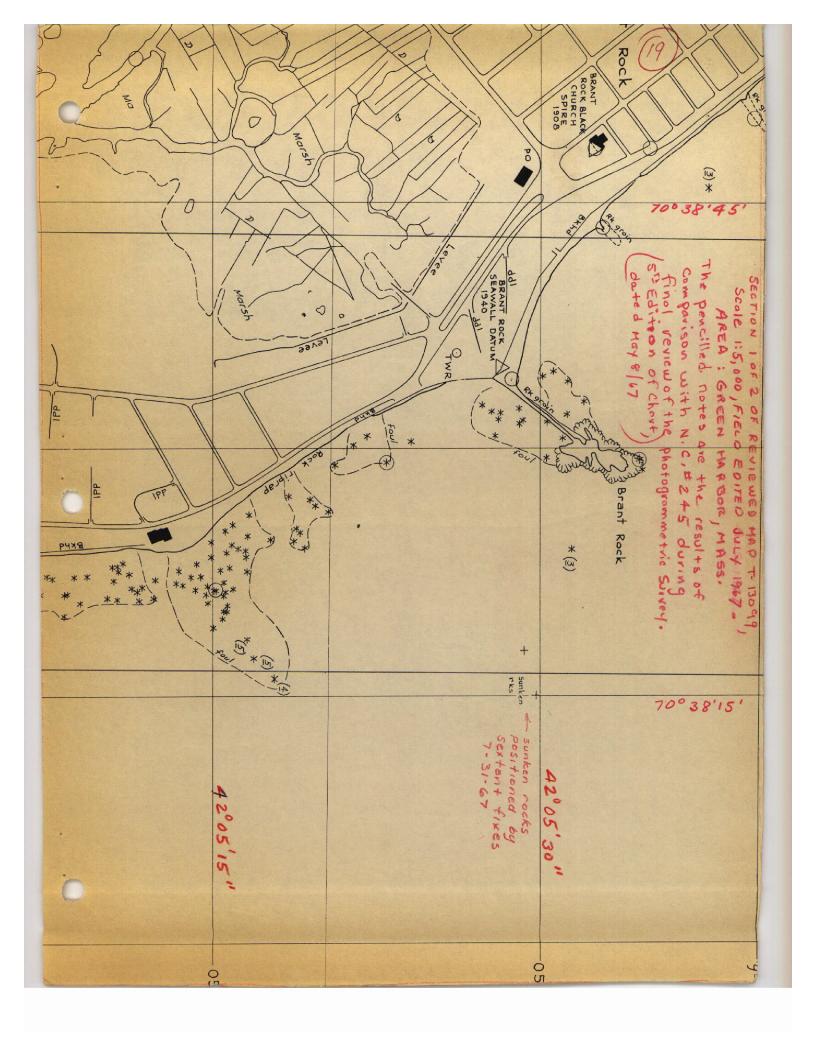
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

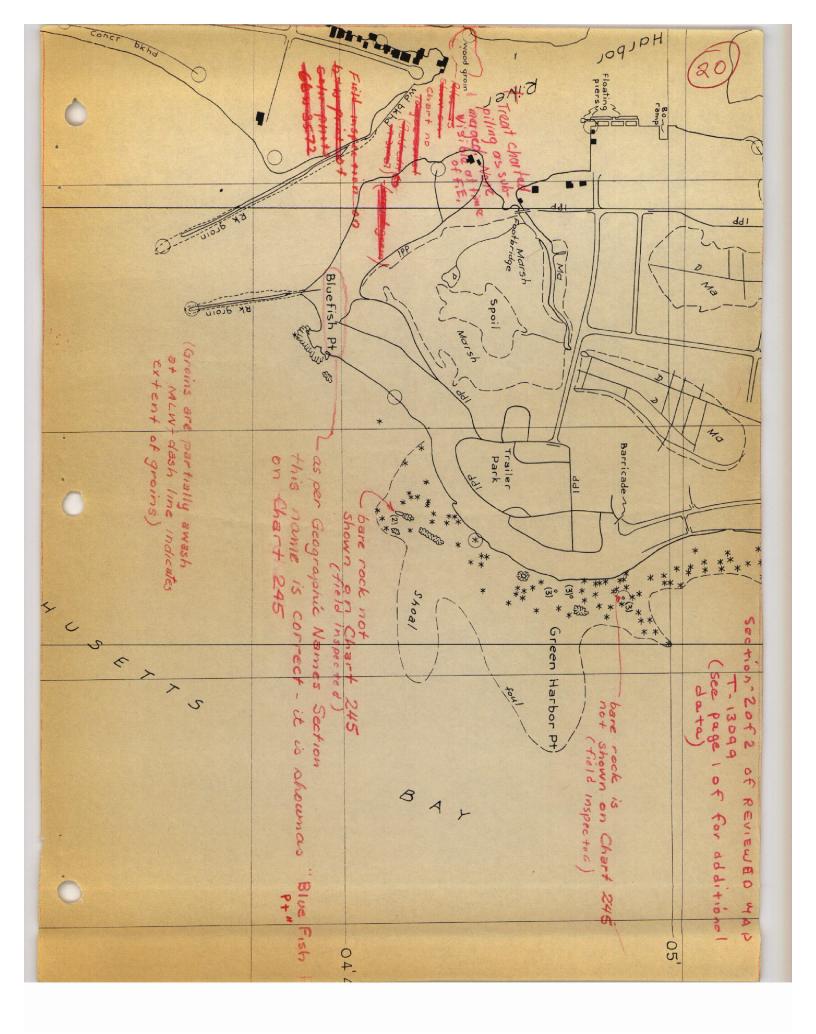
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USCOMM-DC 18234-P81 This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonticeting eide to navigation, if redetermined, 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.

* TABULATE SECONDS AND METERS





NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

T-13099 FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63