# 11148

11148

Diag. Cht. No. 1206.

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-111 Office No. T-111148

LOCALITY

State New Hampshire

General locality Rye Ledge

Locality Rye Harbor to North Beach

19452-53

CHIEF OF PARTY
P. Taylor, Chief of Party
J.E.Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE September 16, 1958

B-1870-1 (1)

### DATA RECORD.

T - 11148

Project No. (II): Ph-114(53)  $\beta$  Quadrangle Name (IV):

Field Office (II): Newburyport, N.H.

Chief of Party: Paul Taylor

Photogrammetric Office (III):

Tampa, Fla.

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III):

30 March 1953 (II) 20 Feb. 1953 (III)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III):

None

JUL 31 1953

Date reported to Nautical Chart Branch (IV): AUG 1 0 1953 Date received in Washington Office (IV):

Applied to Chart No.

Date:

Date registered (IV): 4/10/5%

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

M. H. W. Vertical Datum (III):

Mean 382 level except as follows:

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

Reference Station (III): RYE LEDGE 139, 1941

Lat.: 42° 58 24.361 (751.8 m.) Long.: 70° 45' 56.639 (1283.5 m.)

Adjusted **Unadjucted** 

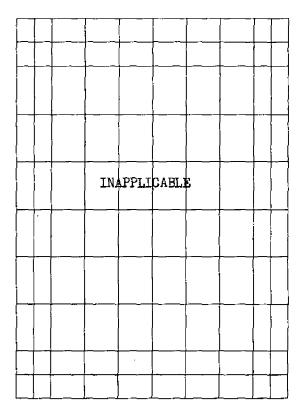
Plane Coordinates (IV):

State:

Zone:

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel (Show name within area)
(II) (III)

Form T-Page 2

### DATA RECORD

Field Inspection by (II): L. F. Beugnet

Date: May 1953

Planetable contouring by (II):

Inapplicable

Date:

Completion Surveys by (II):

Inapplicable

Date:

Mean High Water Location (III) (State date and method of location):

Air Photo Compilation - March 1953

Projection and Grids ruled by (IV):

S. Rose (W.O.)

Date: 15 Feb. 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)

Date: 17 Feb. 1953

Control plotted by (III):

I. I. Saperstein

Date: 15 May 1953

Control checked by (III):

R. J. Pate

Date: 15 May 1953

Radial Plot &XXStatescumicX

M. M. Slavney

Date: 30 June 1953

CONTROL WITCH STATE by (III):

Planimetry

Contours

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Date:

Manuscript delineated by (III):

W. W. Dawsey

Date: 22 July 1953

Photogrammetric Office Review by (III): I. I. Saperstein

Date: 23 July 1953

Elevations on Manuscript

Inapplicable

i lemmonth

Date:

checked by (II) (III):

Form T-Page 3

M-2618-12(4)

Mark Hurd Mapping Company - DQW.

Camera (kind or source) (III): Fairchild K-17 6" Metrogon Lens - J.

		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
DQW 10K L	2 July 1952	Unknown	1:10,000	_
ξ	n	11	<b>11</b>	-
6	<b>11</b>	Ð	tt	-
7	11	• • • • • • • • • • • • • • • • • • • •	11	_
8	11	789	Ħ	-
53 J 304	22 April 1953	09:31	11	3.9
305	11	11	<b>*#</b>	3.9
DQW 9K 193	2 July 1952	Unknown	TI TI	
194	11	11	17	-
195	ti	11	tt	-
196	11	Ħ,	11	-

Tide (III)

Reference Station:

PORTLAND

Subordinate Station: JAF

JAFFREY POINT

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV): 20.0. Helleum

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 3

Shoreline (More than 200 meters to opposite shore) (III): 13
Shoreline (Less than 200 meters to opposite shore) (III): 4.5

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 63

Number of BMs searched for (II): None

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 5

Remarks:

\* One (1) new station established. Little Boor, 1953

Recovered:

Recovered:

4

M-2618-12(4)

Mean | Spring

Range Range

10.2

8.9

Ratio of Ranges

Date:

Identified:

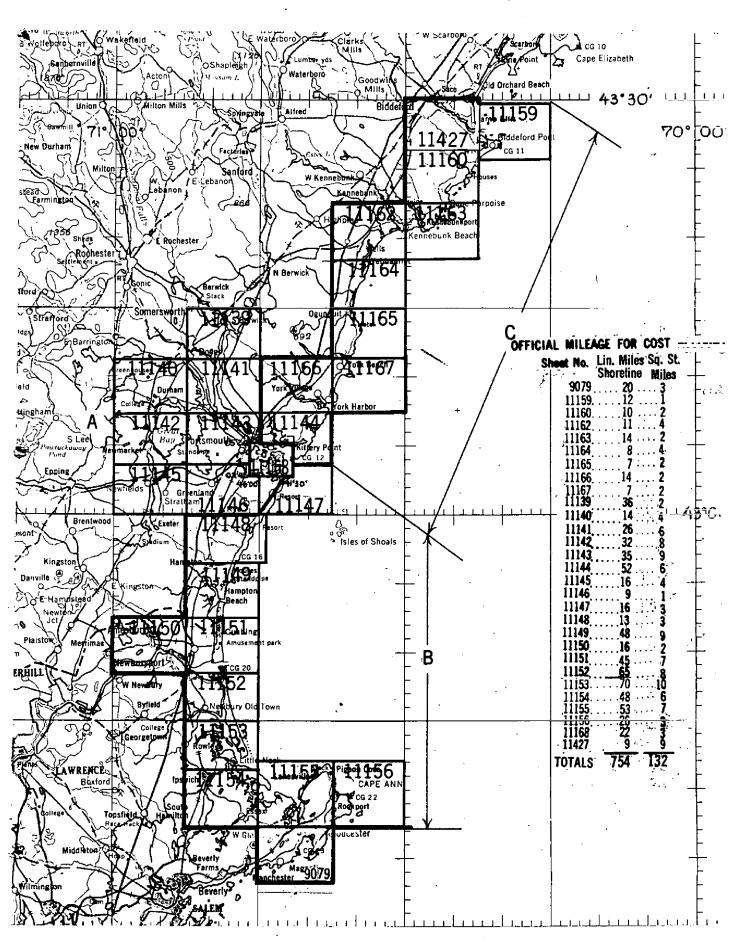
Identified:

Form T-Page 4

E TOTALINETALI

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUD	E OR y-( )E OR x-	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
RYK LEDGE 139, 1941	0.P. s Pg 83	N.A. 1927	2 <u>1</u> 2	あみ	24.361 56.639			1,283.5 ( 76.2)	
HAMPTON MUNICIPAL STANDPIPE, 1941	Pg 85	ŧ	3 2	38.3	34.246 12.378			1,056.8 ( 794.7)	
FARRAGUT HOTEL WEATHERVANE, 1943	т Рg 88	E	27	28	21.29h 08.317			L크리	
LITTE BOAR, 1953	Field Comp.	E	ol या	57 16	28.698 33.788			885.6 ( 965.9) 765.8 ( 594.1)	
HAMPTON BAPTIST CHURCH, 1912	G.P. s Pg 840	##	1,2 70	32 SZ	16.674 13.51			524.5 (1,337.0) 298.2 (1,062.0)	
25,									
									-

# SHORELINE MAPPING PROJECT PH-114 BIDDEFORD POOL, MAINE TO CAPE ANN, MASS.



### Summary to Accompany T-11148

Field instructions were issued for Ph-114 on 13 March 1953, "to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation". The hydrographic phase of this surveying was accomplished in the summer of 1953 under instructions for project CS-355 (Plum Island Sound to Portsmouth Harbor) and CS-361 (Cape Porpoise Harbor).

### FIELD INSPECTION REPORT

### Project Ph-114 Areas B and C

### 2. Areal Field Inspection.

The area embraced by the project is thickly populated with towns and summer resorts, except at the Southerly end of Plum Island and at Castle Neck.

The principal towns and cities are Gloucester, Rockport, Ipswich, Newburyport, Ogunquit, Wells and Kennebunk Port.

The main industries are fishing, farming and manufacturing. Salt hay is harvested from the marshes along Hampton River, Plum Island Sound, Parker River and Ipswich Rivers.

Gloucester is the principal seaport, catering to the greater portion of the fishing industry on the New England coast. The harbor offers excellent shelter in storms for large fishing craft, and there are adequate facilities to service and repair vessels up to 600 tons displacement. The numerous smaller harbors along the coast are of minor commercial importance, as they can accommedate only small fishing and pleasure craft.

The entire area is adequately served by U.S. Highway
No. 1, primary and secondary state highways, and the Boston
and Maine Railroad.

### 3 Horizontal Control.

A complete list of all horizontal control within the

project, and its disposition, has been submitted in accordance with paragraph 6 of Project Instructions, dated 13

March 1953 and the Directors Letter of 26 May 1953.

Area A

### 4. Vertical Control.

All tidal bench marks were searched for and reported on Form 685.

5. Contours and Dmainage.

Inapplicable.

6. Woodland Cover.

Woodland cover was classified in accordance with paragraph 5433 of the Topographic Manual-Part II

- 7. Shoreline and alongshore features.
  - (a) The mean high-water-line was inspected either by walking along the shore or from a small boat run close to the shore. Along the sand beaches the mean high-water-line was located by measurements from natural or cultural features. Along the rocky shore it was impracticable to secure measurements; therefore, the mean high-water-line was interpretated by visual inspection and found to follow closely a change in the tone of the rocks.

The shoreline along the inland waters is for the most part apparent and has been so delineated on the photographs.

In numerous instances it was difficult to distinguish between 'grass in water' and apparent shoreline on the

photographs. It is believed that sufficient notes have been made in these areas to enable the compiler to delineate them accurately.

- (b) The low water line was located by visual inspection at the time of low water, and by measurements where
  practicable. The low water line along the rocky coast
  is very irregular and follows the line of breakers
  which are evident on the April 1953 low water photographs.
- (c) The foreshore is predominately rock with stretches of sand and gravel beaches. These have been labeled on the photographs.
- (e) All docks, wharves and piers have been delineated on the photographs. Landing floats have been indicated on the photographs; where these are of a temporary nature, they have been deleted.
- (f) All submarine cable areas within the project were investigated and where cable crossings were found they were located on the photographs.

### 8. Offshore featufes.

All offshore rocks and their elevations were indicated on the photographs with the time and date of inspection. Where these rocks were visited at the time of low water their actual elevations above this plane were noted.

The bare portion of Sandy Bay breakwater is evident on the photographs. It was impossible for the field inspector to locate the submerged portions. It will be necessary for these to be located by the hydrographic party.

The entire south jetty and the outer portion of the North jetty at the mouth of the Saco River are submerged at mean  $\tau_{r'}$ ,  $\tau_{r'}$  high water. However these are visible on the photographs, and noted as such.

### Landmarks and aids.

Aids to Navigation were located in accordance with project instructions.

All lighted aids were located by 3rd. order triangulation or variations thereof, with the exception of York River Entrance Leading Light, and lights in Annisquam River, which were located photogrammetrically, in accordance with permission obtained in letters from the Chief, Division.

The daybeacons in Gloucester Harbor were located by sectant fixes from triangulation positions. All other daybeacons were located photogrammetrically.

Jaffrey Point Light and Jaffrey Point daybeacon were located by traverse from STARK 145, 1941. The distances from STARK were obtained by measuring a base line, occupying both ends of the base and measuring the angles to the aids, then computing the distances. An azimuth was obtained from WHALE BACK LIGHTHOUSE, 1878.

Merrimack River Entrance Leading Light was located by traverse from SABE (MGS) 1935, RM.

All aids were reported on Form 567.

- 10. Boundaries, monuments, and lines.
  Inapplicable.
- 11. Other control.

The following stations were located as Topographic Stations, and are described on Form 524.

Hampton Beach C.G. Flagpole, 1953

Salisbury Beach Water Tank, 1953

Hampton Beach Water Tank, 1953

Stielman Rock Beacon (Located by the Hydrographic party)

Redden Az. Mk., 1953

Week, 1953

Moody Point 153, AZ. Mk., 1953 7-11164

Photo hydro stations were selected in accordance with project instructions.

12. Other interior features.

All roads, buildings, etc. have been classified in accordance with the Topographic Manual, Part II

Clearances on all cables and bridges ofer navigable waters were measured and noted on the photographs.

13. Geographic Names

Inapplicable.

14. Special Reports and Supplemental Data.

The following data has been submitted previous to this report.

Letter to The Director, dated 15 May 1953 subject: Instructions

Ph-114 (53) B dated 13 March 1953.

List of Horizontal Control.

Respectfully Submitted John C. Lajbye

### COMPILATION REPORT T-11148

### PHOTOGRAMMETRIC PLOT REPORT.

This report to be submitted

### 31. DELINEATION.

The graphic method was used. No difficulty was encountered in the interpretation of the photographs which were of fairly good scale and clarity.

The field inspection was adequate.

### 32. CONTROL.

The control was good. The density and placement was such that no difficulty was encountered in the establishment of detail points.

### 33. SUPPLEMENTAL DATA.

None used.

### 34. CONTOURS AND DRAINAGE.

No difficulty was encountered in the delineation of the drainage.

### 35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline and alongshore details were delineated without any difficulties. The shoreline inspection was adequate. The low water line was delineated as identified by the field inspector. The rock ledges were generalized and delineated as viewed on the photographs.

### 36. OFFSHORE DETAILS.

No statement.

### 37. LANDMARKS AND AIDS.

Landmarks will be submitted by the hydrographic party. There are no nonfloating aids.

### 38. CONTROL FOR FUTURE SURVEYS.

Photo-hydro stations with descriptions have been listed under Item 49. One Form 524 has been listed under Item 49 for use by the hydrographer and is submitted with this report. Additional photo-hydro stations are to be located at a later date by the field party. The additional stations located by the field Party have been listed under Item 49. Walk

### 39. JUNCTIONS.

To the north - T-11116 - in agreement.

To the south - T-11119 - junction could not be checked as no print of T-11119 is available.

No contemporary surveys to the east or west - open area on the east.

### 40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

### 46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. Corps of Engineers Map, HAMPTON, N. H., scale 1:25,000, edition of 1944, and was in good agreement.

### 47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 1206, scale 1:80,000, October 1948, with last correction date of 14 August 1952. This chart appears to be in good agreement with the map manuscript.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

W. W. Dawsey Carto Photo Aid

APPROVED AND FORWARDED:

E. Waugh, Chief of Party

### 48. GEOGRAPHIC NAME LIST.

All names shown are Base Map Names. No additions or deletions were submitted by the field party.

ATLANTIC AVENUE ATLANTIC OCEAN

BASS BEACH

CABLE ROAD (COMMUNITY)
CABLE ROAD (STREET)
CENTRAL ROAD
CHAPEL ROAD

EEL POND

FOX HILL POINT

GODFREYS LEDGE

HIGH STREET

JENNESS BEACH

LITTLE BOARS HEAD
LITTLE RIVER
LITTLE RIVER SWAMP

MEADOW POND

NEW HAMPSHIRE NORTH BEACH NORTH ROAD NORTH SIDE ROAD

OLD MILL POND

PERKINS ROAD
PHILBRICK POND
PLAICE COVE (This applies to Settlement, not to a plaice cove (This applies to Settlement, not to a plaice cove (This applies to Settlement, not to a plaice cove (This applies to Settlement, not to a plaice cove (This applies to Settlement, not to a plaine of the plaine of the settlement)

RYE HEACH RYE LEDGE RYE HARBOR

SMITH COLONY STATE 1A STATE 101C STATE 101D STRAW POINT

Names approved 9-22-5; L. Heck.

UNION CHAPEL

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### 49. NOTES FOR THE HYDROGRAPHER:

Recoverable topographic station:

TIM HAMPTON HEACH COAST GUARD FLAGPOIE, 1953.

Photo-hydro stations:

- 4801 Flagpole about 0.6 mile south of Rye Harbor, Lam's on Straw Point about 400 feet inshore and about 60 feet high. DQW 10K 7.
- 4802 East chimney on red brick house about 1.0 mile south of Farragut Hotel. DQW 10K 6.
- 4803 South gable of small green house about 1.4 miles north of Hampton Beach Coast Guard Station. DQW 10K 5.
- 4804 Chimney on long white house with black roof about 1.0 mile north of Hampton Beach Coast Guard Station. DQW 10K 5.
- 4805 Chimney on white house with blue roof, about 0.8 mile north of Hampton Beach Coast Guard Station. DQW 10K 4.

The field party radially located additional photo-hydro stations on an acetate print of the manuscript. They were recut on the original map manuscript and the final position should be taken from the map manuscript in all cases. They are listed as follows:

COW - Chimney, center gray house, red roof

SAM - Green cupola

MAN - Chimney, north end, main dwelling

COB - East gable, green building, middle of three

HOW - Chimney, gray building

YEL - East gable, tan stucco house

GRA - North gable, gray shed

TOP - Black top, white chimney

GAB - Chimney, white house, black roof, south gable

JCE - North gable, white house

- Building on wharf

# PROJECT NO. Ph. 11 $l_{\rm I}$ T-111 $l_{\rm I}$ 8

Time and date of exposure 09:31, 4/22/53

Reference station PORTLAND

Mean range 8-7 --

Date of field inspection

May 1953

Subordinate station JAFFREY POINT

Ratio of ranges 1.0

h. m. 5 54 12 23 23 29 Time Ø Low tide
Duration of rise
or fall High tide

Height x Ratio of ranges 7.9 7.1 Height feet 7.9 Range of tide High tide Low tide

	ij.	Time
	þ.	E.
High tide at Ref. Sta.	ፖ	75
Time difference	0 7	05
Corrected time at Subordinate station	N	59

	=	E E
	卢	Ė
Low tide at Ref. Sta.	12	23
 Time difference	0 7	05
Corrected time at Subordinate station	12	28

	h. m.		feet		feet	Photo. No.
Time KXKKKL T. Required time Interval	12 28 9 31 2 57	Ht. MXXXXL. T. Tabular correction Stage of tide above MLW	3.1	Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares		
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

# PHOTOGRAMMETRIC OFFICE REVIEW

T- 11148

1. Projection and grids ITS 2. Title IIS 3. Manuscript numbers IIS 4. Manuscript size IIS
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) <u>IIS</u> 7. Photo hydro stations <u>IIS</u> 8. Bench marks <u>XXX</u>
9. Plotting of sextant fixes XXX 10. Photogrammetric plot report WAR 11. Detail points IIS
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline IIS 13. Low-water line IIS 14. Rocks, shoals, etc. IIS 15. Bridges XXX 16. Alds
to navigation XXX 17. Landmarks XXX 18. Other alongshore physical features IIS 19. Other along -
shore cultural features IIS
Shore cultural leatures
PHYSICAL FEATURES
20. Water features <u>IIS</u> 21. Natural ground cover <u>IIS</u> 22. Planetable contours <u>XXX</u> 23. Stereoscopic
- · · · · · · · · · · · · · · · · · · ·
Instrument contours XXX 24. Contours in general XXX 25. Spot elevations XXX 26. Other physical
features IIS
CULTURAL FEATURES  27. Roads IIS 28. Buildings IIS 29. Railroads XXX 30. Other cultural features IIS
BOUNDARIES
31. Boundary lines <u>IIS</u> 32. Public land lines <u>XXX</u>
31. Boundary mies 32. Fubric land mies
· MISCELLANEOUS
23 Coographic names TTS 34 functions TTS 35 Legibility of the manuscript TTS 36 Diseasons
WWW TTO TTO TTO
overlay AX 37. Descriptive Report 115 38. Field inspection photographs 115 39. Forms 115 william a. Racure
40. T. T. Saper Stein W. A. Rasure  Reviewer Supervisor, Review Section or Unit
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.
Compiler Supervisor
Cuper 1401

\_\_\_\_\_. Lr...........

## T - 11148

After the manuscript was completed the boat sheets were made available to this office and the low-water line was transferred in red pencil. In most cases the low-water line agrees favorably with that as originally shown on the manuscript. Both lines are being retained on the manuscript for possible use of the processing office.

william a. Racure

### REVIEW REPORT T-11148 Shoreline Map 22 September 1954

### 61. General:

Stick-up was applied to the map manuscripts in this project as a part of the compilation process, i.e., prior to review. The map manuscripts at this phase are labeled "Advance Print".

These map manuscripts were not altered during review. Any additions, alterations or deletions recommended by the reviewer were recorded on review correction overlays to be used by the drafting section for application of the called for revisions on black line impressions on vinylite. These positives on vinylite, with corrections applied, serve as the final map manuscripts.

### 62. Comparison with Registered Surveys:

T-1023 1:10,000 1866 Great Boars Head to Rye Harbor T-11148 supersedes the older survey for charting purposes.

### 63. Comparison with Maps of Other Agencies:

1:62,500 U.S.E. Hampton, N.H.

The shoreline is in good agreement.

### 6lı. Comparison with Contemporary Hydrographic Surveys:

H-8091 (ECFP-1453) 1:10,000, 1953 Portsmouth Entrance to Godfrey Ledge.

\*Only field notes were available for use during review. Page 4 of these notes calls attention to the islet on chart 1206 and the ledge on T-11148 at 42° 57.35'/70° 46.15'. They are incorrect and should be charted as shown on H-8091.

 $\mathbf{x}$  Because H-8091 is not available for correct delineation, the ledge symbol has been deleted from T-11148 and replaced by a broken line enclosure to a "shoal" to indicate a possible or probable hazard. \* This Comparison has been fliets

65. Comparison with Nautical Charts: made and there are no Confliets

1206 1:80,000 Oct. 1948, Corr. March 1954

Not all rocks specifically located on the chart are delineated on T-11148, but they fall within the approximate LWL of the shoreline survey. The hydrographic surveys are not available so that no check could be made of rocks outside the LWI. (See heading 64 regarding islet and/or ledge southeast of Little Boars Head.)

### 66. Accuracy:

The radial plot report was not available so that the strength of the plot is unknown to the reviewer.

The field inspection notes were faithfully followed and the delineation is well executed so that the shoreline meets charting needs.

Reviewed by:

Lena T. Stevens

Approved by:

Chief, Review Section Div. of Photogrammetry

The I Samuel

Chief, Div. Photogrammetry

14 aug. 1958 M

Chief, Nautical Chart Branch

Division of Chafts

Chief, Div. Coastal Surveys