# 11174

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Diag. Cht. No. 1208-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

| Type of Survey SHORELINE  PH 116  Office No. T-11174                                |
|---|
| LOCALITY  |
| State MASSACHUSETTS   |
| General locality MASSACHUSETTS BAY  |
| Locality GURNET POINT   |
| 1951 - 19_53  |
| CHIEF OF PARTY E. H. Kirsch, Chief of Party E. H. Kirsch, Baltimore District Office |
| LIBRARY & ARCHIVES  |
| DATE January 2, 1966  |

COMM- DC 61300

### T-11174

Project No. (II): Ph-116

Quadrangle Name (IV):

Field Office (II): Plymouth, Mass.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge:

E. H. Kirsch

Copy filed in Division of

Photogrammetry (IV)

Instructions dated (II) (III): 30 April 1953

9 June 1953 (Supplement 1)

9 July 1953 (Supplement 2) 11 July 1953 (Supplement 3) 10 July 1953 (Letter 70-1mh) 12 February 1954 (Office)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as  $(\underline{\delta})$  refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): CURNET DATUM, 1940

Lat.: 42° 00° 19.259" (594.2 m)

Long.:

58.6LLm

Unadjusted

Plane Coordinates (IV):

State: Mass.

Zone: Mainland

Y=

=

X=

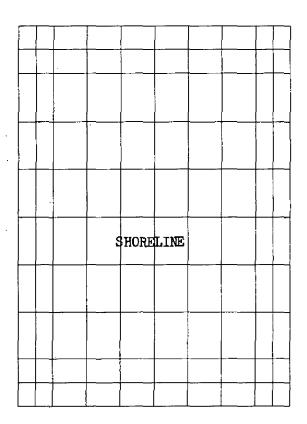
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

Form T- Page I

M-2618-12(4)





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

(3)

Field Inspection by (II): W. M. Reynolds

Date: Aug.1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

July 1953 - Field Inspection

Projection and Grids ruled by (IV): A. Riley

Date: 11/13/53

Projection and Grids checked by (IV): A. Riley

Date: 11/20/53

Control plotted by (III): J. King

Date: 2/26/54

Control checked by (III): L. A. Senasack

Date: 3/2/54

Radial Plot <del>of Stereoscopi</del>c

Control-extension-by-(HH)+ F. M. Wisiecki

Date: 3/15/54

Planimetry

, ,\_...,

Date:

Conto

Stereoscopic Instrument compilation (III):

Contours

.

Manuscript delineated by (III): J. Phillips - J. Honick

Date: 6/15/55

Photogrammetric Office Review by (III): R. Glaser

Date: 7/14/55

Elevations on Manuscript

checked by (II) (III):

Date:

### Camera (kind or source) (III) Production and Marketing Administration, single lens and C&GS single lens, camera "J".

PHOTOGRAPHS (III)

| Number            | Date     | Time | Scale    | Stage of Tide                          |
|-------------------|----------|------|----------|--|
| DPT-2K-182 to 184 | 10/22/51 | 1250 | 1:10;000 | 4.6 above MIW 1.8 " " -0.1 (below MLW) |
| 53-J-430 & 431    | 4/29/53  | 0707 | 1:10;000 |  |
| 53-J-639 thru 642 | 4/29/53  | 1416 | 1:10;000 |  |

Tide (III) From predicted tide tables

Reference Station:

Boston

Subordinate Station:

Gurnet Point

Subordinate Station:

Washington Office Review by (IV): S.G. Blanker boker

Date: Nov 1964

2

0

Range Range

|Ratio of | Mean | Spring

Final Drafting by (IV):

Date:

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 5.8 mi. Shoreline (Less than 200 meters to opposite shore) (III): 0.8 mi.

Number of Temporary Photo Hydro Stations established (III): none

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of Recoverable Photo Stations established (III):

Recovered:

0

none

Identified:

3

0

Number of BMs searched for (II):

Recovered:

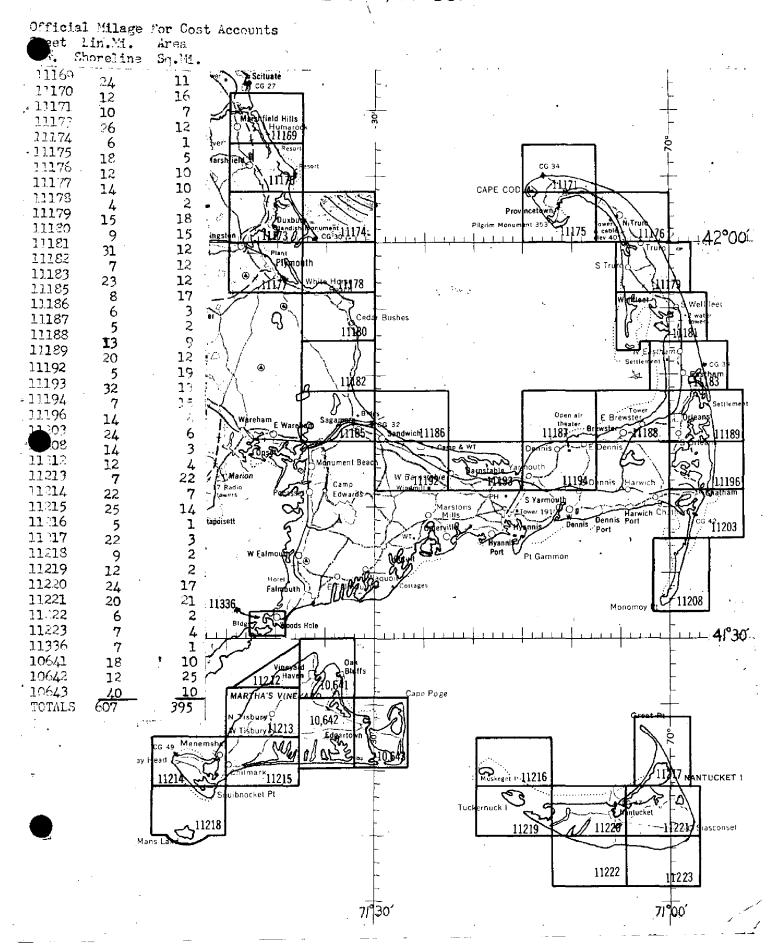
Identified:

Remarks:

M-2618-12(4)

Form T-Page 4





## Summary to Accompany Descriptive Reports T-11173 and T-11174

T-11173 and T-11174 are two of 40 similar surveys comprising project PH-116. Project coverage includes (1) Cape Cod Bay shoreline, (2) the entire east shore of Cape Cod, and (3) the islands of Marthas Vineyard and Nantucket. The subject maps cover Cape Cod Bay shoreline, north of Plymouth.

### 7. • AREAL FIELD INSPECTION

This area is composed of the southeast end of Duxbury Beach and Gurnet Point.

Duxbury Beach is a narrow stretch of land separating Duxbury and Massachusetts Bays. All of the beach is sand with low scattered sand dunes, except for Gurnet Point, which is a rocky point with bluffs surrounding the point.

Photography was of recent date and of good quality. No difficulty was encountered in their interpretation in the field.

Field inspection is believed complete and was performed on the following single lens photographs: 53-J-430 and 53-J-431; 53-J-433 and 53-J-653.

### 3. HORIZONTAL CONTROL

All control was searched for and recovered.

A three point the odolite fix was made and identified opposite the center and approximately normal to the flight line of photographs 53-J-430 and 53-J-431.

No stations were reported lost.

### 4. VERTICAL CONTROL

Inapplicable.

### 5. CONTOURS AND DRAINAGE

Contouring is not applicable.

Drainage is tidal and is adequately covered by the photographs.

### 6. WOODLAND COVER

Inapplicable.

### 71 SHORELINE AND ALONGSHORE FEATURES

The mean high water line was located by measurements from identifiable points at approximately one-half mile interval.

The low water line is to be compiled by instrument methods in the Washington Office. The area was not visited at low water except as noted below, and no low water information has been indicated on the photographs. The area of Clarks Island was inspected; notes appear on photograph 53-J-653.

The foreshore varies widely. The beach along the eastern side of the sheet is steep and there is no appreciable difference between the mean high and mean low water lines. The beach along Saquish Neck is gradual and there is several hundred feet between the two lines.

The only bluffs are around Gurnet Point. These bluffs are approximately 50 feet high and should be emphasized on the map. The bluffs are plainly visible on the photographs and have not been indicated.

All docks, wharves, piers, etc. are adequately covered by the photographs.

There are no other shoreline structures.

### 8. OFFSHORE FEATURES

There are no offshore features within the limits of this map.

### 9. LANDMARKS AND AIDS

There are no landmarks for nautical charts.

One fixed aid to navigation, Plymouth (Gurnet) Light, was previously located by triangulation and has not been moved since location.

There are no aeronautical aids in the area.

### 10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

### 11. OTHER CONTROL

None was established.

### 12. OTHER INTERIOR FEATURES

All roads and buildings are adequately covered by the photographs.

There are no bridges or cables over navigable waters.

There are no airports or landing fields.

The "turn" poles in the Coast Guard telephone line have been indicated on the photographs. The compiler is to draft in the telephone line as a straight line between these poles.

### 13. GEOGRAPHIC NAMES

No discrepancies in geographic names were noted during field inspection.

### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-116-2, Forms 567, Landmarks and Aids to Navigation, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-116-13, Low water photographs and other data, forwarded to Washington Office 11 September 1953.

Letter of Transmittal No. Ph-116-8, Data, Map T-11174, forwarded To Washington Office 11 September 1953.

Submitted 8 September 1953

William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded 11 September 1953

E. H. Kirsch Chief of Party

FORM 164 (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

GOAST AND GEODETIC SURVEY
CONTROL RECORD

FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD SCALE FACTOR (11/81.7)(1280.7)(1286.8)(1257.5)(1269.7)(1218.6)(1069.4)(31.2) (3,88,1) (1257.0) (BACK) N.A. 1927-DATUM 594.2 369.5 FORWARD 632.6 311.4 1394.€ 362.3 94.0 593.7 111,1 10001 DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTÂNCE FROM GRID IN FEET. (BACK) FORWARD 11.742 04.085 LONGITUDE OR x-COORDINATE 49.85 11.975 19.259 04.351 LATITUDE OR #-COORDINATE 9119 8 36 8 8 8 8 37 37 a PROJECT NO..... 20 2 2 77 2 2 42 77 3 7 DATUM N.A. 1927 \* z SOURCE OF INFORMATION Sombo GTZ G-4249 G-4249 P-243 GURNET DATUM, 1940 p 516 G-4543 (INDEX) = 11174 PLYMOUTH (GURNET) LIGHTHOUSE, MCS FIX No. 2, 1953 Sub. Pt. FIX No. 3, 1953 PLIMOUTH, MGS, 1938 STATION MAP T.... Sub. Pt.

| DATE 2/19/54 | CHECKED BY: L. A. Senasack | DATE 2/18/54 CH |
|--------------|----------------------------|-----------------|
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|              |                            |                 |

### COMPILATION REPORT Project No. 6116 Survey No. T-11174

The Photogrammetric Plot Report is part of the Descriptive Report for survey No. T-11173.

### 31. DELINEATION

Graphic methods were used to delineate this manuscript.

The vertical projector was used to compensate for scale difference between the photographs and the map manuscript.

### 32. CONTROL

Refer to Photogrammetric Plot Report.

### 33. SUPPLEMENTAL DATA

The U. S. G. S. Duxbury quadrangle was used for geographic names.

The revision data for the Duxbury quadrangle submitted by the field party was used for additional field inspection.

### 34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: No comment.

### 35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate.

The mean low water line, foul areas and shallow areas were delineated from office interpretation of the photographs.

### 36. OFFSHORE DETAILS

Gurnet Rock and High Pine Ledge could not be delineated from the photographs.

### 37. LANDMARKS AND AIDS

Form 567 for one (1) Non-floating Aid has been submitted.

### 38. CONTROL FOR FUTURE SURVEYS

No photo-hydro stations were located in the compilation office. Refer to the hydrographic survey data for photo-hydro stations located by the hydrographic party.

### 39. JUNCTIONS

Junction is in agreement with T-11173 to the west. Junction with T-11178 is an all water area. All water area lies to the north and east.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45

Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle, Duxbury, Mass., scale 1:31,680, edition of 1941, revised in 1947.

### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 245, scale 1:20,000 published April 1932 (2nd Edition), corrected to 2/26/55.

Items to be applied to Nautical Charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted

17 June 1955

Jack Honick

Carto. Photo. Aid

Approved and forwarded

E. H. Kirsch

Comdr. C&CS

Baltimore District Office

### Review Report

### T-11174

### November 1964

### 62. Comparison with Registered Bureau Surveys

425 1853-54 1:10,000 3625 1916 1:20,000

No offshore rocks were located by the subject survey (T-11174). For Bureau charting purposes, rocks in the area are shown on H-8165 (1954-55). Some of the rock information on H-8165 was carried forward from T-3625 and its contemporary hydrography survey, no. 3906.

Except for the rock information shown on T-3625, the subject survey, T-11174, supersedes the prior survey and survey T-425 for charting purposes in the common area.

### 63. Comparison with Maps of Other Agencies

USGS Quadrangle, Duxbury

1:24,000 scale 1961

No significant differences between the surveys were noted.

### 64. Comparison with Contemporary Hydrographic Surveys

н-8165

1854-55

1:10.000

T-11174 provided the shoreline for H-8165. Except for rock information shown on H-8165 (Refer to heading 62) the surveys are in agreement.

### 65. Comparison with Nautical Charts

245

1:20,000

Revised 4-1-63

T-11174 was applied to the chart in 1956. No changes effecting the chart were made during the final review of T-11174.

### 66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

Chief, Photogrammetry Division

7-15-15



### 70-

### PHOTOGRAMMETRIC OFFICE REVIEW

T- ///74

|   | ta, Chapification intel CONTROL STATIONS   |
|---|--|
| 5. Horizontal control stations of third-orde  | er or higher accuracy6. Recoverable horizontal stations  |
| than third-order accuracy (topographic sta  | itions)7. Photo hydro stations8: Bench marks_  |
| 9. Plotting of saxtant-fixes 10. P  | Photogrammetric plot report 11. Detail points  |
|   | ALONGSHORE AREAS   |
|   | (Nautical Chart Data)  |
| 12. Shoreline13. Low-water line   | 14. Rocks, shoals, etc. 15. Bridges 1  |
| to navigation17 <del>. Lendmarks</del>  | 18. Other alongshore physical features 19. Other   |
| shore cultural features   |  |
|   | PHYSICAL FEATURES  |
| 20. Water features 21. Natural g  | ground cover 2 <del>2. Planetable contours</del> 23. <del>Stere</del>  |
| instrument contours 24. Contou  | <del>irs -in general 25, Spot elevation</del> s 26. Other p  |
| features  |  |
|   |  |
|   | CULTURAL FEATURES  |
| 27. Roads 28. Buildings   | CULTURAL FEATURES  29 Railroads 30. Other cultural features  |
| 27. Roads28. Buildings  | ·  |
| 27. Roads 28. Buildings 31. Boundary lines 32. Public lines   | 29 Railroads 30. Other cultural features  BOUNDARIES   |
|   | 29 Railroads 30. Other cultural features  BOUNDARIES   |
| 31. Boundary lines 32. Public la  | 29_Railroads 30. Other cultural features BOUNDARIES  |
| 31. Boundary lines 32. Public la  | BOUNDARIES  and lines  MISCELLANEOUS  tions  30. Other cultural features  BOUNDARIES  36. Discrete   |
| 31. Boundary lines 32. Public Li  | BOUNDARIES  and lines  MISCELLANEOUS  tions  35. Legibility of the manuscript  38. Field inspection photographs  29 Railroads  BOUNDARIES  30. Other cultural features  BOUNDARIES  36. Discr  |
| 31. Boundary lines 32. Public Lines 34. Junct overlay 37. Descriptive Report  | BOUNDARIES  and lines  MISCELLANEOUS  tions  30. Other cultural features  BOUNDARIES  36. Discrete   |
| 31. Boundary lines 32. Public Lines 32. Public Lines 34. Junct overlay 37. Descriptive Report                               | BOUNDARIES  and lines  MISCELLANEOUS  tions  35. Legibility of the manuscript  38. Field inspection photographs  29 Railroads  BOUNDARIES  30. Other cultural features  BOUNDARIES  36. Discr  |
| 31. Boundary lines 32. Public Lines 34. Junct overlay 37. Descriptive Report 40 Reviewer 41. Remarks (see attached sheet)   | BOUNDARIES  and lines  MISCELLANEOUS  tions  35. Legibility of the manuscript  38. Field inspection photographs  29 Railroads  BOUNDARIES  30. Other cultural features  BOUNDARIES  34. Discr  |
| 31. Boundary lines 32. Public lines 34. Junct overlay 37. Descriptive Report 40 Reviewer   41. Remarks (see attached sheet) | BOUNDARIES  BOUNDARIES  MISCELLANEOUS  tions 35. Legibility of the manuscript 36. Discr  38. Field inspection photographs 39. Forms  Supervisor, Review Section or Unit  DDITIONS AND CORRECTIONS TO THE MANUSCRIPT  by the field completion survey have been applied to the manuscrip |



### 48. GEOGRAPHIC NAMES LIST

Cape Cod Bay Coast Guard Station

Duxbury Bay Duxbury Beach

Gurnet Point

- # Gurnet Park
- \* High Pine Ledge

Massachusetts Bay

Plum Hills Plymouth Bay

Saquish Neck

Names aftered Names aftered Sols Whought

\*Feature not delineated. Name in pencil on manuscript.

| 567  | 1045  |
|------|-------|
| Form | Anril |
|      |       |

# DEPARTMENT COMMERCE

U. S. COAST AND SCODETIC SURVEY

# NONFLOATING AIDS ØRTEANDMARKS FOR CHARTS

| STRIKE OUT ONE |                  |
|----------------|------------------|
| TO BE CHARTED  | TROOBECDELLETIED |

Plymouth, Mass.

23 Outober , 19 53

Lorin F. Woodcock

I recommend that the following objects which have (have (havey) been inspected from seaward to determine their value as landmarks be

Isaiah Y. Fitzgerald charted on (deletacyfram) the charts indicated.

The positions given have been checked after listing by

|                    |  |        |       |              |          |                |       |                    |          | Ö               | Chief of Party. | Party.      |
|--------------------|--|--------|-------|--------------|----------|----------------|-------|--------------------|----------|-----------------|-----------------|-------------|
| STATE              |  |        |       | _            | POSITION |                |       | METHOD             |          | THAI            | TRAKS           |             |
|                    | Massachysetts  |        | LAT   | LATITUDE*    | PONC     | LONGITUDE *    |       | LOCATION           |          | 15 340<br>08 CH |                 | CHARTS      |
| AANAMEA<br>AANAMEA | DESCRIPTION  | SIGNAL | , ,   | D. M. METERS | 0        | D. P. METERS   | DATOM | BURVEY<br>No.      | LOCATION | HSKI            |                 |             |
|                    | Plymouth (Gurnet) Light (330)  |        | ०० टा | 362.3        | 70 36    | 04.085<br>94.0 | N.A.  | Triang.<br>T-11174 | 1938     | ×               |                 | 245<br>1208 |
| -                  |  |        |       |              | 1        |                | 1927  |                    |          |                 |                 |             |
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Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. individual field survey sheets. Information under each column heading should be given.

### **RECORD OF APPLICATION TO CHARTS**

T-11174 FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

### INSTRUCTIONS

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

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. 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-97#

USCOMM-DC 8668-P63