

Diag. cht. 1210-2								
Form 504								
U. S. COAST AND GEODETIC SURVEY								
DEPARTMENT OF COMMERCE								
DESCRIPTIVE REPORT								
Type of Survey Topographic								
Field No. 4 Office No. 5604								
LOCALITY								
State Massachusetts								
General locality apponagansef								
Locality Bay, Slocum River								
BARROW								
Buzzardo Bay.								
CHIEF OF PARTY								
Thocks. Reed								
LIBRARY & ARCHIVES								
DATE November 4,1936								

B-1870-1 (I)++

5604

Form 804
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic | Sheet No. 1 56 04

Hydrographic | Field No. 4

State Massachusetts

LOCALITY

Apponaganset Bay - Slocums R. Glark Cove to Berneys Joy Pt.

Buzzards Bav

1936

CHIEF OF PARTY

Thos. B. Reed

U. S. GOVERNMENT PRINTING OFFICE: 193

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. 4

REGISTER NOT5604

State Massachusetts
General locality Bussards Bay
Apponaganset Bay Slocums K. Locality Clark Gove to Barneys Tou Point
Scale 1:10,000 Date of survey , 19
Vessel Field party 16 Compilation May 1936
Chief of party Thos. B. Reed
Surveyed by See Data Sheet
Inked by Raymond S. Poor
Heights in feet above****to ground to tops of trees
Contour, Approximate contour, Form-line-intervalfeet
Instructions dated September 28 , 1935
Remarks: Compiled on Scale 1:10,000

PHOTO TOPOGRAPHIC SHEET NO 4 REGISTER NO. T-5604

PHOTOS NO.

DATE

TIME

M328 to M342

Nov 15, 1934

11:41AM

M343 to M355

Nov 15, 1934

11:49AM

Projection by

Projection machine Washington Office Feb. 1936

Triangulation &

Traverse plotted by

M. H. Reese and R. S. Poor

Feb .- May, 1936

Triangulation &

Traverse checked by Thos B Reed

Feb -May, 1936

Topo Stations transfered from plane table sheets by

Washington Office

Feb

1936.

Smooth Radial Plot by Thos. B. Reed and R.S. Poor

Pood and D C Dasm

Feb+April 1936

Detail Inked by

R. S. Poor

March- May 1936

Jaldnefection Movember

STATISTICS

Area of detail inked(land area)

21.5 sg. Stat. Miles

Length of shore line(more than 200 meters from

nearest opposite shore)

25.0 statute miles

Length of shoreline (Streams less than 200 meters wide)

15.0 statute miles

Datum North American 1927

Reference Station Mishaum Point 1844 Long 70 57 16.581" (384.6 m.)

Triangulation in process of readjustment and values from first adjustment not final.

Ref. Sta. -

K= 749,376,51 FT.] Mass. Grid. 4= 188, 301, 42 FT.] Mass. Grid.

DESCRIPTIVE REPORT

to accompany

Photo Topographic Sheet No. T-5604

Clark Cove to Barney's Joy Point, Buzzards Bay, Massachusetts

Thos. B. Reed, Chief of Party.

DATE OF INSTRUCTIONS: Letter dated Sept. 28, 1935, No. 22-AA1990(16)

DATE OF SURVEY

November 15,1934, with revision by Field Inspection Party November 1935 to February 1936.

GENERAL INFORMATION:

Photographs: This sheet was compiledfrom parts of two flights of 1:10,000 scale five lens aerial photographs taken by the Army Air Corps on November 15, 1934 with Model T3A Camera No. AC31-78-A. The flights were numbered M328 to M342, the numbers increasing from West to East; the photographs of the upper flight were numbered M343 to M355, the numbers increasing from East to West. The camera had a focal length of six inches and the photographs were taken from an elevation of approximately 5000 feet. The stage of the tide was computed to be 1.7 feet, and the mean range of tide in this vicinity is 3.7 feet.

General Description This sheet comprises of territory and coastline in the southern part of the Town of Dartmouth, Mass., from Clark Cove to Barney's Joy Point.

The Town of Dartmouth is composed of several small villages South Dartmouth (Padanaram), Apponaganset, Dartmouth (Russell's Mill) Bayview, Nonquitt and Potomska, the last three of these are summer colonies.

With the exception of South Dartmouth (Padanaram) the entire region would be classified as rural. The interior is heavily wooded with scattered farms, cultivated fields and pastures. The hills are a gentle rolling type and the maximum elevation is approximately 100 feet.

The entire coastline is strewn with boulders, ledges and offlying rocks which is charactistic of Buzzards Bay. There are a few
sand beaches but they are rather small in extent. To the westward of
Barney's Joy Point there are a few sand dunes. Barney's Joy Point
and Slocums Neck is devoid of trees and is covered with low briars
and grass. The land rises from the shore gently to an elevation of
approximately 30 feet. Smith's Neck extends southward to Mishaum Pt.,
It is a narrow strip of land with an elevation of approximately 40'
in the center. With the exception of a 20' bluff at the point the
land rises gently from the water. There are a few scattered summer
homes on this neck and what few trees there are low and not outstanding. Round Hill Point is prominent because of a small hill on top of
which is awhite tower with an aviation beacon. There are four radio

masts, which are very prominent just to the westward of Round Hill Pt. CONTROL:

Sources: Second and Third Order Triangulation by W. D.Patterson, 1934. Also the following stations: Mishaum Pt. S. E. North Gable of House, 1913, Mishaum Pt. S. E. Wind Mill near end 1913, Stone Tower with windmill 1913, Nonquitt, Myers stone water tower 1913 which were obtained from Publication No. 169, "Triangulation in Mass." and corrected to the N. A. 1927 Datum.

Second Order Traverse by the Works Progress Administration of Massachusetts, 1936. (Positions computed by this party from data sent us from W. P. A. on 1927 N. A. Datum).

Topographic stations established by plane table party of W. D. Patterson in 1934 and 1935.

Errors: Triangulation Station Noves Garage Tower 1913 was found to be 10 meters in error. This station did not hold on the radio plot Reperted to although it was tied in good on the photos and on some of the photos it and could be clearly seen. Since this station is a no check position and was not necessary for the control of the sheet it is not shown on this compilation. Errors in Topographic Stations are discussed under the heading "Comparison with Plane Table Sheets Nos T"D", T"C" and 6121.

Other sources of control: No control, other than mentioned above was used in the Compilation of this Sheet.

COMPILATION

Method: The usual five lens radial line method of plotting was used in the ompilation of this sheet. In general, there were sufficient triangulation and traverse stations on the sheet to control the plot without the use of topographic stations established in 1934 by plane table. The radial plot was continued across the adjoining sheets.

Adjustments of plot: No unusual adjustment of the plot was necessary.

INTERPRETATION:

No difficulty was experienced in interpreting the detail. from the photographs except where the detail was obscured by trees.

The interpretation of the high and low water line were made by the Field Inspection Party by sketching and actual measurements from objects that could be identified on the photographs. July support in the photographs.

The sterescope was used in locating building wherever necessary although there may be some error as to the size and shape especially in that section between the two flights as there was not sufficient overlap and the photographs were not as distinct as they could have been.

CONVENTIONAL TOPOGRAPHIC SYMBOLS

Only graphic symbols, approved by the Board of Surveys and Maps were used, except as follows:

A small symbol (was used to denote brush, briars etc., as there was no conventional sign that applied.

Cultivated fields were left blank to avoid congestion and no attempt was made to distinguish between fields actually under cultivation and those sown with grass because of the practise to rotate the crops. Pastures were shown with a grass and brush symbol.

INFORMATION FROM OTHER SOURCES:

Street names in South Dartmouth (Padanaram) were obtained from a Town Map showing the street layout. Since it was impossible for us to secure a copy of this map the names are printed on the field prints.

A small scale map of Dartmouth showing the names of the roads was obtained andused for that purpose only.

GEOGRAPHIC NAMES:

Names of Geographic Features were obtained from U. S. C & G. S. charts plane table sheets and were verified by the field inspection party from local residents.

conflicting Names: Little Island was obtained from C. S. Sawyer, town assessor for the Town of Dartmouth who has resided in this locality all his life. This island is located in Apponaganset River and is called Great Island on the Topographic Sheet No T'D", 2216, and also on Charts Nos 249 & 252. It is shown on the official town map as Little Island.

Paskamanset River is known locally as Slocums
River as far as the tide water goes. Above this point it is called Fresh. River. The correct name, however, is Paskamanset, an old indian name which applies to the entire river. Tide water in this case as goes as far as Dartmouth (Russells Mill as it is known locally) where there is a dam which prevents it from going farther. U. S. Geological Survey Quadrangle Sheet and the old Topo Sheet 2216 also have the name Pamanset shown but this is apparently an error in spelling because none of the local residents had ever heard of Pamanset. The Coast Pilot has the Name Paskamanset River but no mention of Slocums River. This information was verified by the Post Master at Dartmouth (Russells Mill) and by C. S. Sawyer, the town assessor.

and should be mentioned here are Padanaram and Russells Mill. Padanaram applies to South Dartmouth although South Dartmouth is the correct name. Hence, Padanaram Breakwater Lt, Padanaram Church Spire etc. "Russells Mill," applies to Dartmouth although the mill is no longer in existence. These names, however are notused by the Post Office and are listed as South Dartmouth and Dartmouth respectfully.

New Names: There were no new names obtained in this area.

COMPARISON WITH OTHER SURVEYS:

Junctions. This sheet matches the adjoining, sheet to the west with no differences.

Hit is Russell' 10112" Sec GN 111 and 1 1/119 Sinter Collection

comparison with Topo Sheet No Tun 6374 (topoflic Control lucy)

Topographic Stations Hit, Lik, Go, and Ask were located on the photographs and checked in with the plotted position. These stations are shown on this compilation. The actual high water line from Clark Cove to South Dartmouth Bridge checked in very closely to the topo parties. Many of the off lying rocks shown in this vicinity by the topo party fell within the low water line which could easily be seen on the photographs. Those lying outside the low water line checked in very closely to the Topo sheet location. At a point just to the northeast of Topo Station - (40.36/4,70.55%) Hit the topo party shows a ledge symbol. However while this point has many off living rocks and the shore is of a rocky nature it is not shown with a ledge symbol on this compilation. It should be mentioned that it is not shown with a ledge symbol on Topo. Sheet 2220. More rocks were shown at this point than were shown on Topo Sheet T. These rocks could be seen on the photographs and their positions were checked by radial line plot and they are shown with the conventional sign.

At Moshers Point, the off lying rocks are shown differently on this compilation than on Topo Sheet T'37. These rocks could be seen very clearly on the photographs and a dashed line indicating foul area was shown around this area. The larger rocks which are exposed at high tide checks in the the topo positions.

In Apponaganset River there was a large discrepancy in the high water line as determined by the Topo Party and by the Field Inspection Party. The dotted line shown on Topo Sheet No. The checks in very closely, with that taken from the photographs and marks the outside limit of grace growing in the water. This was rechecked again in May 1936 by Lt. T. B. Reed and the compiler.

by The H.W. Line shown on Topo Sheet Bir934, is the Storm water line. The T-6373

Topographic Stations Lad, Bid, Lam, Buy, Low, Era, Man
Hen, Westerly and Wow of East Group of Radio Towers and Northerly and
Southerly of West Group of Radio Towers were riched and Southerly of West Group of Radio Towers were picked on the photographs and held in the radial plot. These stations are shown on this compilation. Topo Station Von (S. Gab. of Hangar) was picked and the station held on (Copy. of this survey the radial plot but in as much as there is an aerial beacon on top of hangar 1.5 meters north of this point, it was considered of greater im- Anney Mapping 20) portance to locate the beacon.

There was a very good agreement between the high water line on Topo Sheet Total and this compilation. At Round Hill Point many of the off lying rocks could be seen and were located on this compilation. Topo sheet merely shows a foul area in this region.

About a mile west of Round Hill Point there is a small creek that breaks through the beach. At this point there was considerable difference between the topo sheet and the compilation. However this point is subject to considerable change with every storm. The high water line shown on this compilation was drawn in by the field inspection party November 1935 and checked with actual measurements.

Comparison to Topo Sheet 6121

Topographic Stations Rat, Rug, Tan Ink, Hoe, Boy, Big, Arm Arc, Sow, Mac, Mut and Wit were located on the photographs and are shown on this compilation as their positions checked with the radial line plot. Topo Station Dal(S. Gab. Yellow Hse) was 10 meters out of position as deter-

(41-31/4,70-59/2)

mined by the radial line plot. This point was easily identified on radial plot position. the photographs. This station is not shown on the compilation. Topo station Hot (flagstaff on house peak) was 25 meters in error as located by radial line plot. Station seemed to be picked OK as there was no other building at this point. The shoreline was also 25 meters in error at this point. This error was in a westerly direction and with all the triangulation stations holding on the radial plot this is improbable and the station is need shown on the compilation. Topo station "Ire" was approximately 5 meters off as determined by the radial line plot. This station was a chimney on the peak of a house and was easily identified on the photographs. Other topo stations nearby were holding on the radial line plot. This station is neet shown on this compilation in the radial plot position.

The following stations Led, Raw, Sap, Ado, Abe and Ivy could not be accurately located on the photographs so no attempt was made to do so. These stations are shown on the compilation and the positions are the same as on the topo sheet.

At the end of Mishaum Pt, the H. W. line is approximately 10 meters different. This shoreline was sketched in by the field inspection party and measurements taken at different points. At this point there are many rocks all along the beach and the rocks that are covered at H. T. are a different color. This line shows up very plainly on the photographs and the actual H. W. line is just inside this line.

The off lying rocks at the mouth of Little River are slightly different in shape but in the same position. It is supposed that these rocks were sketched in by the topo party rather than rodded in and they are drawn in as they appeared on the photographs.

At Barneys Joy Pt a dotted line for foul area was placed on this compilation as there are many off lying rocks in this area. The rocks that could be seen are located.

There is considerable difference at the mouth of a small creek that breaks through the beach west of Barneys Joy Point. However there is considerable current and it causes many changes. During southeast storms, this outlet is sometimes blocked entirely and has to be dug out to prevent polution of Allens Pond. The H.W. line shown was drawn in from the Field Inspection Party's sketches and measurement made in November 1935. In the marsh just north of this point there are some differences in the locations of some of the islands. These pictures were very close to scale and the detail well defined.

Comparison to Old Topo Sheet 2216.

Only the outstanding changes and differences will be mentioned in this comparison.

On the west shore near the entrance to Paskamanset River the beach has built up between 40 and 50 meters since 1895.

Sheet 2216 shows many off lying rocks on the west side of Mishaum Pt while recent surveys show only one rock awash. H-5630 shows a number of rocks in this area.

Three rocks awash west of Salters Point are at least 50 meters out of position on 2216 See page 8, Review H. 5882

at the present time. It is probably due to a lower water level in the pond at the time of the old survey. There is no outlet for the pond but the water seeps through the beach which is quite narrow at the present

The marsh west of Round Hill Point on the old survey has for the \sim most part been filled in.

The old survey shows a large rock south of Dumpling Rock L. H. of which there is no indication on the photographs. Recent plane table sheet shows no large rock at this point either. There is no rock here see descriptive report T-6373 page 2.

North of Round Hill Point at Keel Rook, the old survey shows two rocks while recent survey only shows one, the easterly. Photographs show only one rock. H-5882 shows two rocks awash

Salt Works near Apponaganset River Bridge and at Ricketsons Point as shown on old survey are no longer in existence.

Other changes in the interior such as roads and building are not 🎤 mentioned. However the old roads shown on 2216 check in very well with the compilation.

Comparison to Charts

Marsh west of Round Hill Point has been filled in.

Wharf north of Round Hill Point is no longer in existence.1933 Edition of Coast Pilot mentions this wharf .

Salt Works shown on Chart near Apponaganset River Bridge is no 🗸 longer in existence.

Many small wharves north of Round Hill Point and at South Dartmouth have been built also many houses near the shoreline.

Marsh shown on northwest shore of Clark Cove has practically all been reclaimed and filled in.

LANDMARKS:

A list of Landmarks for Charts of this area was submitted by Lieut W. D. Patterson in connection with hydrographic surveys in 1934 and 1935. No additional landmarks have been established since that time

RECOMMENDATION FOR FURTHER SURVEYS

This compilation is believed to have a probable error of not more than 3 meters in position of welldefined detail of importance for charting purposes and of 5 meters for other detail.

To the best of my knowledge thiscompilation is complete in all detail of importance for charting purposes within the accuracy stated above, and as mentioned in the foregoing report, no further surveys are required.

Approved & Forwarded, Respectfully submitted for fourmend . Too Raymond & Poor Surveyor, C & G Survey Party No.

Surveyor, C & G Survey Party No. 16

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REVIEW OF AIR PHOTO COMPILATION T-5604

Scale 1:10,000

Although two of the contemporary topographic surveys, T-6373 and T-6374, have been filed and reviewed as topographic surveys, they have been handled in connection with this review as graphic control surveys.

Comparison with Graphic Control Surveys

T-6121 (1934), 1:10,0<u>00</u>

In addition to the discrepancies listed on pages 4 and 5 of this descriptive report, T-5604, there are also differences in high water line delineation at 40° 30 3/4', 71° 00' and 40° 32 1/2', 71° 00'. In the first case there is a slight eastward shift in the detail on T-6121 as well as a difference in interpretation. In the second case there is a westward shift in the detail on T-6121 as well as a difference in interpretation. The photographs have been examined and the compilation considered correct. About five more triangulation stations were used in this area on the compilation than on the planetable survey.

All detail on T-6121, is shown on this survey except temporary signals and the magnetic meridian.

T-6374 (1935), 1:10,000

In addition to the discrepancies discussed on page 4 of this descriptive report, T-5604, it was noted that in a number of places T-6374 shows the rock awash symbol inside the low water line while T-5604 shows the boulder symbol. Since the beach in this area is boulder strewn the symbols on T-5604 are accepted.

There are a number of rocks located on this survey which are not on T-6374.

buoys, comman area All detail on T-6374 is shown on this survey except, temporary signals and the magnetic meridian.

T-6373 (1935), 1:10,000

The comparison between T-6373 and this survey is adequately covered on page 4 of this descriptive report, T-5604.

There are a number of rocks located on this survey which are not on T-6373.

Topographic station VON (S. Gable of Hanger) which was located on T-6373 is not shown on this survey. This survey shows an aerial beacon located by the radial plot which is 1.5 meters north of station VON. a copy of this confidention T 5604 whowing air Br. and raches Jours has been delivered to air way mothing bection 1390

bows -

All detail on T-6373 is shown on this survey except station VON, buoyo, temporary signals and the magnetic meridian.

Comparison with Previous Topographic Surveys

T-183 bis (1844), 1:10,000

There is good general agreement between T-183 and this survey. The entrance to Allens Pond at 41° 30′3/4′, 71° 00′ on T-183 has closed and a new entrancerblasted out at 41° 30′3/4′, 71° 00′ 1/2′; see descriptive report T-6121, page 2. The marsh area around Allens Pond has changed. The point at 41° 31′1/2′, 70° 58′3/4′ has built out some 200 meters. The small marsh island at the entrance to Packamanset Slocams River is gone. There are several rocks on T-183 which are not shown on this survey. The discussion and disposal of these rocks is given in the reviews of H-5630 and H-5630 Addl. Work. The reef island off Barneys Joy Point on T-183 is shown as two rocks awash on this survey. The low water line north of Barneys Joy Point on T-183 extends far beyond the low water line on T-5604, which is accepted as correct; see review H-5630 addl. work, page 5, paragraph 6d(5).

T-193 bis (1844), 1:10,000; T-194 bis (1844), 1:10,000

The shoreline agreement is good. Several rocks on T-193 are not on this survey but are covered by H-5630, H-5880 and H-5882.

T-2216 (1895), 1:10,000

Comparison of T-2216 with this survey is covered on page 5 of this descriptive report, T-5604.

The three rocks some 400 meters east of Barneys Joy Point are about 30 meters too far east on T-2216.

T-2217 (1895-6), 1:10,000; T-2220 (1895), 1:10,000

There is good general agreement in shoreline between these 1895 surveys and T-5604. However, there are a few changes in the marsh details. A number of the fences located on T-2217 still exist and the agreement of these fences with this survey is very good.

T-4612 (1931), 1:10,000

T-4612 is a survey of Round Hill Point. Four radio towers, an airway beacon, and Dumpling Rock Lighthouse were located by this planetable survey. A few roads were run in as well as the shoreline around Round Hill Point.

The shoreline on T-4612 is in error by as much as 20 meters in some places.

The airway beacon and the lighthouse have since been located by triangulation. The radio towers have been located on this survey, T-5604, as well as on T-6373. The radio towers, airway beacon and lighthouse on T-4612 disagree with these latter locations by as much as 10 meters, and should be rejected.

T-5604, in conjunction with the disposal of rocks discussed in reviews of H-5630, H-5880 and H-5882, is adequate to supersede T-183, T-193, T-194, T-2216, T-2217, T-2220 and T-4612 over the common area except for hachures and contours.

Comparison with Contemporary Hydrographic Surveys

H-5630				1:10,000
H-5630,	Add1.	Work	(1935),	11
H-5880			, 17	11
H-5882			Ħ	n

There are no conflicts with the hydrography. There are, however, a few minor conflicts in the inside marsh areas between the hydrography of H-5630 and the shoreline of T-5604.

There are a number of rocks located on T-5604 which are not on the hydrographic surveys. The delineation of the rocks at the mouth of Little River, (41° 31 3/4', 70° 51') is different on the two surveys, T-5604 being accepted as correct, (see page 5 of this descriptive report). There are also errors in the shoreline of H-5880 at the upper end of Apponaganset River as discussed on page 4 of this descriptive report, T-5604. These omissions and errors have been called to the attention of the Chief of Field Records Section.

Comparison with Charts 1210, 252 and 249

Corrections and additions to the charts as a result of this survey are discussed under Comparison with Previous Surveys and on page 6 of this descriptive report.

All landmarks and aids to navigation in this area are shown on this survey, see chart letters No. 802 (1934) and No. 903 (1935).

Sept. 17, 1936.

Frank G. Endine

REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: Thos B. Reed

Field No 4 Compiled by: R.S. Poor

Project: Vicinity of Westport Mass.

Instructions dated: Sept 28, 1936

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 i; 26; and 64)

Yes

-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)

Yes

3. 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)

Yes

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)

Yes

5. 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.

Yes

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. 12b; 44; and 66 c.h.i)

Yes

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes

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, 37, 38, 39, 40, 41)

Yes

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. 29, 30, and 57)

Located by plane table by party of W. D. Patterson, 1934.

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)

Furnished by W. D. Patterson in conjunction with hydrographic and topographic survey of this area in 1934. No changes since then.

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)

Yes

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 66k)

13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.

Yes

Yes

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes

- 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.

Yes

Yes

- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight. $_{\mathrm{Yes}}$
- 6. All drawing has been retouched where partially rubbed off. Yes
- 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, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks: Yellow stains appearing on this compilation could not be removed without a great deal of difficulty. At the time the lines were removed the celluloid appeared to be clean and the ink was not on the celluloid for any great length of time. Stains did not appear for some time after actual removal of lines. Extra Heavy ink was used, which seems to have more tendency to cause yellow stains on the celluloid than the Light Heavy.
- 18. Examined and approved;

5 mars

Chief of Party

19. Remarks after review in office:

Reviewed in office by: Frank & Emplane

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

	Positions plotted by $\overline{\mathcal{RE}}$. Ask & H. D. REED, JR.
<i>,</i>	Positions checked on Ru	ling machine
	Grid inked on machine by	H. D. R., Ja.
	Intersections inked by	H. D. R., JR.
Points	used for plotting grid:	
<u>x</u>	=740,000 FT = 215,000 FT	x 745,000 y 205,000
<u>*</u>	190,000	у
<u> </u>	190,000	x y
x y	215,000	<u>x</u>
Triang メミ 74	ulation stations used for che 9,376.5151-4=188.301.4251	oking grid:
Ref. Sta. 1	Mishaum Point, 1844 2,819.36-4=215.095.80	5.
. 2	· Padanaram Ch. Spine. 1844	6.
3	•	7.
4	•	8.

GEODETIC POSITIONS FROM LAMBERT COORDINATES

State	Mass.	:	 STATION.
	•		

	,	
75.5,000	R_b+A	23,549,477.32
C 600,000	y	190 000,00
x' (=x-C) + $155,000$	R_b+A-y	23,359,477.32
log (x-C) 5,1903 3174	$\frac{\theta}{2}$ (in secs.)	684,3170
$\log (R_b + A - y)$ 7.368463/2	$\log \frac{\theta}{2}$	2,83525733
log tan θ 7.82/86858	$\log S$	4-64557168
0 22 44.6340		7.52082901
/364.6340	rog sin 2	
2/2/2 4734	, , θ	5 A 11 1 5 4 A
$\log \theta \ (\theta \text{ in secs.}) \qquad 3 / 3 \leq 2 \leq 7 3 \neq 4$	$\log \sin^2 \frac{\theta}{2}$	5.0416580
log l	log 2	0 . 3 0 1 0 3 0 0
$\log \frac{\theta}{l} \qquad \qquad 3,36984346$	log R*	7.36 Y 46 3 1
$\Delta\lambda \stackrel{(=\frac{b}{l})}{=} 2037. 4805$	log y"	2.7/1/5/1
	<i>y"</i>	514,22
λ (central mer.) 7°1 30 00.0000	,	
-Δλ - 33 57,4405	R_b+A-y	23,359,477.32
λ 70 56 02,5195	y"	+ 5/4.22
	R	23,354,441,54
	y	196,000.00
	y"	- 514.22
	y'	189,485.78
	ϕ (by interpolation)	41 31 11.9921

$$\tan\theta = \frac{x - C}{R_b + A - y}$$

 $\lambda = \lambda$ (central mer.) $-\Delta\lambda$

$$y'' = 2R \sin^2 \frac{\theta}{2}$$

C is constant added to x' in computation of coordinates

 R_b is map radius of lowest parallel

A is value of y' for R_b ; in most cases it is zero ϕ is interpolated from table of y'

^{*} Use $(R_b + A - y)$ as an approximate value of R and later correct this value when R is obtained below.

Plane coordinates on Lambert projection

	State Max	ss.	Station <u>M</u>	shaum Point 1844
				57 16.581
	Tabular difference	e of R for 1"	of $\phi = 10$	1. 21933
		ır		
-R (for min. of ϕ)	23,367,278.53	y' (for mir	n. of ϕ)	182,198.79
_Cor. for sec. of ϕ	- 5,62.5,06	Cor. for sec	c. of <i>ø</i>	+ 5,627,06
_R	23,361,653.47	y <u>'</u>		187,823.85
	· · · · · · · · · · · · · · · · · · ·	y <u>"</u> (=2R s	$\ln^2 \frac{\theta}{2}$)	+ 477.57
θ (for min. of λ)	0 ' "	y		188,301.42
_Cor. for sec. of λ				
θ	+ 82/58/8848	$\frac{\theta}{2}$		0 18 59.4424
θ" For machine computation	1 n.		For machine computation	
	,	log θ''		3,12020686
_log θ''	3,1202 0686+	colog 2		9.69897000
_S for .θ	4.68557186-18	S for $\frac{\theta}{2}$		4.68557413
log sin θ sin θ	7,80577872	1 -	$_{-}$ sin $\frac{\theta}{2}$	7.56475099
_log R	7.36850358		_R sin $\frac{\theta}{2}$	4,87325457
_log x'	5./742 8230	$\log \sin^2 \frac{\theta}{2}$	_R sin²	l '
_x'R sin 6	r	~		
	3 00,000.00			0.301 <u>03000</u>
_x	749,376.51	W		2.67903356
				477.57

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

 $y'=% \frac{1}{2}\left(\frac{y'}{y'}\right) =\frac{1}{2}\left(\frac{y'}{y'}\right) +\frac{1}{2}\left(\frac{y'}{y'}\right) =\frac{1}{2}\left(\frac{y'}{y'}\right) +\frac{1}{2}\left(\frac{y'}$

 $S = log \ of \ ratio \ for \ reducing \ arc \ expressed \ in \ seconds \ to \ sine$ (see $log \ tables$)

R, y', and θ are given in special tables

GEODETIC POSITIONS FROM LAMBERT COORDINATES

r	745,000	$R_{\mathfrak{d}} + A$	23,549,477.32
C	600,000	y	205,000.00
x' (=x-C)	+ 145,000	R_b+A-y	23,344,477.32
$\log (x-C)$	5.1613 6400	$\frac{\theta}{2}$ (in secs.)	640,5800
$\log (R_b + A - y) -$	7.3681 8415	$\log \frac{\theta}{2}$	2.80657338
$\log \tan \theta_{-}$	7.7931 8385	log S	4.68557208
θ	2/ 21.160/	$\log \sin \frac{\theta}{2}$	7.49214546
1	1281.1601	.55 5 2	•
$\log \theta$ (θ in secs.)_	3,1076 0340	$\log \sin^2 \frac{\theta}{2}$	4 9842909
$\log l$	9,8271 9388	log 2	· ·
$\log \frac{\theta}{I}$	3,2804 0952	log R*	7.3681841
υ θ	1907.2583	log y"	2,6535050
$\Delta\lambda \ (=\frac{1}{l})$		y"	450.30
	79 30 00.0400		
λ (central mer.)_	- 3/ 47.2543		23,344,477.32
<i>-</i> Δλ	70 54 12.7417		+ 450.30
λ	10 12.771	<i>y</i>	

$$\tan\theta = \frac{x - C}{R_b + A - y}$$

 $\Delta \lambda = \frac{\theta}{l}$

 $\lambda = \lambda$ (central mer.) $-\Delta\lambda$

$$y'' = 2R \sin^2 \frac{\theta}{2}$$
$$y' = y - y''$$

 ϕ (by interpolation)

 y_{-}

C is constant added to x' in computation of coordinates

 R_{\bullet} is map radius of lowest parallel

A is value of y' for R_b ; in most cases it is zero ϕ is interpolated from table of y'

^{*}Use $(R_b + A - y)$ as an approximate value of R and later correct this value when R is obtained below.

740,000

State 7: lass.

Station 215,000

x	_R _b +A	23,549,477.32 215,000 23,334,477.32
$\tan \theta \qquad \qquad \circ \qquad ' \qquad '' \qquad \qquad \\ -\theta \qquad \qquad \left\{ \qquad \qquad \circ \qquad ' \qquad '' \qquad \qquad \\ -\frac{\theta}{\ell} (=\Delta \lambda) \qquad \qquad \qquad \right.$	_R	215,000 - 419.98 214,580.02
λ (central mer.) 7/ 30 7/ 30 7/ 30 7/ 30 7/ 30 42.28.5	E F \ " J \ " \ "	41° 35 19.9117

755,000 Station 215,000

x' (= x-C)	+ 155,000	R _b + A	23,549,477.32 215,000 23,334,477.32
-tan $ heta$ $ -$	0 ' "	R	215,000
$\underline{-\frac{\theta}{\ell}}(=\Delta\lambda)_{-}$		y"	- <u>'514.79</u> 214, 485.21
\(\chi \)(central mer.)_ \(\lambda \)\(\lambda \)	71°30′″ 33 59.663 70 56 00.336	——————————————————————————————————————	41° 35° 18'.9751

$$\tan \theta = \frac{x - C}{R_b + A - y}$$

$$\Delta \lambda = \frac{\theta}{\ell}$$

 $\lambda = \lambda$ (central mer.) = $\Delta\lambda$

$$R = (R_b + A - y) \sec \theta$$

$$y'' = 2R \sin^2 \frac{\theta}{2}$$
$$y' = y - y''$$

C is constant added to x' in computation

of coordinates

R_b is map radius of lowest parallel

A is value of y' for R_b ; in most cases it is zero

ø is interpolated from table of y'

740,000

State Mass.

$-x$ $-c$ $-x' (= x-c)$ $+ \frac{140,000}{140,000}$	_R _b +A	23,549,477.32 190,000 23,359,477.32
tan θ ° ' "	_R	190,000
$-\frac{\theta}{\ell}(=\Delta\lambda)$	y'' y'	- 419.53 189,580.47
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_ φ (by interpolation)_	41° 31 12".9276

710,000 210,000 Station____

x c x' (= x-c)	+110,000		23,549,477.32 210,000 23,339,477.32
$\tan \theta = \begin{cases} \theta & \vdots \\ \theta & \end{cases} = \frac{\theta}{\ell} (1 + \Delta \lambda) = $	· · · · · · · · · · · · · · · · · · ·		210,000 - 259.22 209.740.78
λ (central mer.)_ – Δ λ λ	71°30′″ 24 07.2035 71 05 52.7965	y' ø (by interpolation).	41°34 32.1022

$$\tan \theta = \frac{x - C}{R_b + A - y}$$

$$\Delta \lambda = \frac{\theta}{\ell}$$

$$\lambda = \lambda$$
 (central mer.) $-\Delta \lambda$
R = (R_b + A - y) sec θ

=
$$\lambda$$
 (central mer.) $-\Delta\lambda$

$$y'' = 2R \sin^2 \frac{\theta}{2}$$
$$y' = y - y''$$

C is constant added to x' in computation

of coordinates

R_b is map radius of lowest parallel

A is value of y ' for R_b ; in most cases it is zero

 ϕ is interpolated from table of y'

Plane coordinates on Lambert projection State Mass. °*59 17.7185* 41° 35 19.9117 \= Tabular difference of R for 1" of $\phi =$ 564.57 23, 336, 912.75 y' (for min. of \$). R (for min. of ϕ) 2 015.45 Cor. for sec. of ϕ Cor. for sec. of ϕ $y''_{-}(=2R \sin^2 \frac{\theta}{2})$ °20 49.4153 θ (for min. of λ). 11.9020 Cor. for sec. of λ_- 18.75665 For machine For machine computation computation θ'' $\log \theta''_{-}$ 9.69897000_ log θ''_ colog 2 S for $\frac{\theta}{2}$ _S for θ_- .0029998124 0059995978 log sin $\frac{6}{3}$ sin $\frac{6}{2}$ log sin θ _sin € 70 000,314 .R sin 🕏 log R_ 209.988 $\log \sin^2 \frac{\theta}{2} R \sin^2 \frac{\theta}{2}$ _log x'__

log R_

log y<u>''</u>

00,000.00 log 2_

R sin €

0.30103000

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y'= the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine (see log tables)

R, y', and θ are given in special tables

		Plane co	ordinates (on Lambert	projection	155,00	2
		Stat	e Mas	<i>₩</i> s	station	155,000 215,00	<i>-</i>
	<u> </u>		41° 35	18.9751	$\lambda = 70^{\circ}$	<i>56 0</i> ő.33	67
		Tabula	r difference	of R for 1"	of $\phi = 10$	1.21917	<u>!</u>
_R (for mir	ı. of ø)	23,336	,912.75	y' (for min	. of ø)	2/2,	564.57
_Cor. for se				_Cor. for sec		+ 10	<u> 720.64</u>
_R		23,334	992.11	y <u>'</u>		214;	485.21
			, . 1	_y <u>''_</u> (=2R si	$\ln^2 \frac{\theta}{2})$	<u>_</u>	<u> 514.79</u>
$_{-}\theta$ (for min	. of λ)	+ 0 °22'	<u>50,3265</u>	y		2/5	000.00
Cor. for se		_	. ટર્ટ્સ્ટટ	-			
_θ		+ 22	50.1003	Į.		°/	1 25.05015
$\theta^{\prime\prime}$	For machine computation	,			For machine computation		
				log θ''			·
_log θ''				colog 2		9.6	9897000
_S for .θ			•	S for #			
log sin €_	sin θ	.00664	123849	$\log \sin \frac{\theta}{2}$	_sin <u>#</u>	.003	3212107
log R	J				_R sin β		500.426
log x'				$\log \sin^2 \frac{\theta}{2}$	_R sin ²	2.5	7.395
_x'	R sin <i>⊕</i> _	155	000.00	log R]	
		7	,000.00	log 2		0.3	0103000
х			,000	log y"			
J	<u> </u>	J		u			

R, y', and θ are given in special tables

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

 $y'=% \frac{1}{2}\left(\frac{y'}{y'}\right) =\frac{1}{2}\left(\frac{y'}{y'}\right) +\frac{1}{2}\left(\frac{y'}{y'}\right) =\frac{1}{2}\left(\frac{y'}{y'}\right) +\frac{1}{2}\left(\frac{y'}$

S = log of ratio for reducing arc expressed in seconds to sine (see log tables)

		Plane coordinates	on Lamberi	projection	
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			740,000
		State Ma	sa _:	Station	190,000
		$\phi = 41^{\circ}.31$	12.9276	$\lambda = 70^{\circ}$	59 19.6901
		Tabular difference			
-		Tabulai dilicience	, 01 10 10 1	ΟΙ Ψ <u></u>	
_R (for mir	n. of ϕ)	23,361,205.37	y' (for mir	n, of ϕ)	188,271.95
_Cor. for se		_ <i>i</i> 308.52	II .		+ / 308.52
_R	. , ,	23,359,896.85			189.580.47
		1	y <u>"</u> (=2R s	$\sin^2\frac{\theta}{2}$)	+ '419.53
$_{-\theta}$ (for min	of λ	+ 0 ° 20 49.4153	,	2 /	190,000.00
		- 13.2264	13		,
Cor. for se	C, OI A	+ 20 36.1889	1!		°10′18.09445
_θ''	For machine computation	"	2	For machine computation	
			$\log \theta''$		
_log θ''			colog 2		_9.69897000
_S for .θ			S for $\frac{\theta}{2}$		
	sin <i>0</i>	.0059931770	log sin $\frac{\theta}{3}$	$\sin \theta$.0029966020
₋log sin θ	SIII 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10g 3m 2 –	$R \sin \frac{\theta}{2}$	70,000.314
_log R			- 2 θ	_	209.763
_log x'		140 000 00	-	_R sin²	20.711-3
_X′	R sin θ	6	11	,	0.00102020
		2=600,000.00	7ll		0.30103000_
_x		740,000	log y <u>''</u>		
		Į.			

R, y', and θ are given in special tables

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y'= the value of y on the central meridian for the latitude of the station

 $S = log \ of \ ratio \ for \ reducing \ arc \ expressed \ in \ seconds \ to \ sine$ (see log tables)



ELMER C. HOUGLETTE DIRECTOR

November 19, 1936

Lieutenant Thomas B. Reed U. S. Coast and Geodetic Survey New London, Connecticut

Dear Sir:

Enclosed are Coordinates of traverse stations established for the Coast Survey in the vicinity of Dartmouth for use as control for their air photos.

Very truly yours,

Wilbert H. Connor

WHC:HCA Enc.

Assistant Director

November 21, 1936.

Respectfully forwarded to the Director, U. S. Coast and

Geodetic Survey.

Thos. B. Reed.

Com Bridge

and the second

Station	X	¥
Joy	740,949.82	187,061.52
(82A)	739,809.98	188,976.79
(82B)	736,923.54	193,573.63
82C	735,483.47	194,589.77
82D	734,418.04	198,676.29
82E	734,351.52	200,676.65
. 82F	734,619.58	208,714.50
82G	732,379.80 72.5A	208,324.35 51.07
Dartmouth #2	728,647.10	207,966.03

Closure 1:11,000

960

(8SH)	735,725.17	209,811.26
82Ha	735,832.37	210,466.83
82Hb	735,677.97	211,284.04
82Hc	735,969.70	212,645.83
82Hd	736,219.82	213,020.22
82He	737,439.10	213,369.81
82Hf	739,013.33	213,448.07
82Hg	739,388.47	213,859.98
SECTION .	739,838.94	215,193.58
82Hj	740,650.86	216,242.81
⊘82J	741,963.94	216,584.38
	742,143.58	215,689.11
82Ka	742,340.84	215,073.40
82Kb	742,739.53	213,563,10
82Ke	743,363.77	213,150.79
(82L)	744,132.80	212,756.17
(82M)	√749,915.77	213,381.20
<8 <u>2N</u> >	751,552.80	214,174.88
82P	751,890.80	214,507.86
Podanarum Gray Ch.	752,879.36	215,045.80
•	87.76	100

	The state of the s		
Dartmouth	2	728,647.10	207,966.03
Dartmouth	2a	727,468.75	208,730.68
-82AA		727,085.72	209,447.33
.~82AB	•	725,515.65	212,378.14
82ABa		725,034.18	212,027.15
82АВЪ		724,329.48	211,554.91
82ABc		723,335.97	210,125.56
82ABd		722,252.60	209,134.21
-82AC		721,047.93	208,546.82
~82AD		719,886.62	208,407.74
-82AE		717,597.88	208,032.02
_82AF		715,867.25	208,527,42
82AFa		713,383.13	208,140.07
82AFb		712,564.20	207,999.59
82AG		711,932.25	207,954.18
-82AH		711,708.68 —	209,321.57
82AHa		710,442.73	209,211.55
82AHb		708,886.68	208,622.42
- 82AJ		707,814.27	207,965.84
-82AK		706,935.43	207,681.50
82AKa		704,776.02	206,450.09
82AKb		704,255.66	206,014.63
82AKo	•	703,598.33	205,468.96
82AKd		703,569.43	204,871.97
82AKe		703,439.71	204,467.08
82AK f		703,402.92	204,035.06
∼82AL		702,857.76	203,471.37
- 82AM		702,280.50	200,754.16
82AMa		702,500.51	198,030.08
dMAS8	`	702,766.85	196,928.17
82AMc		702,900.41	196,271.85
- Nootas 2		703,053.89	195,874.46

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	applied to drawing of chart 237- Nov. 17, 1936- Jours 1210-Dec 12, 1938- TOR
	applied to drawing of han 151-16011/1100 150
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