

Diag. Cht. No. 1210-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC.
Field No. PH-31(LB)-C Office No. T-5745
LOCALITY
State MASSACHUSETTS
General locality ELIZABETH ISLANIS
Locality NAUSHON ISLAND -PASQUE ISLAND
194
CHIEF OF PARTY
B, U. Sipa
LIBRARY & ARCHIVES

B-1870-1 (1)

DATA RECORD

T - 5745

Project No. (II): PH-31(48)C

Quadrangle Name (IV):

Field Office (II): Washington, N. C.

Chief of Party: Riley J. Sipe

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge:

Thos.B. Reed

Instructions dated (II) (III): Field, 9 April 1948
Informal office 18 January 1949

Copy filed in Division of Photogrammetry (IV)

Office Files.

Method of Compilation (III):

graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1.00

Date received in Washington Office (IV): 7-19-19

Date reported to Nautical Chart Branch (IV): 8-1-49

Applied to Chart No.

Date:

Date registered (IV): 2-6-5/

Publication Scale (IV): 1:10,000

Publication date (IV): 8-18-50

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW
Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as (<u>5</u>) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): NAUSHON, SOUTHWEST 2, 1887

Lat.: 41° 27' 0.291" (39.8m) (39.8m).: Long. 70°47' 20.149" (467.7m) Adjusted

Plane Coordinates (IV):

State: Mass.

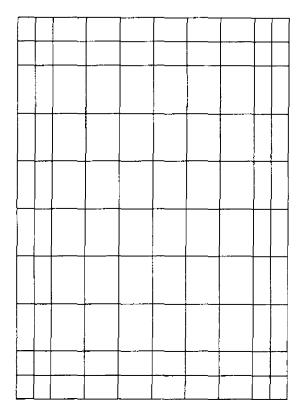
Zone: Is/end

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,



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

DATA RECORD

Field Inspection by (ii): E.T. Jenkins; R. A. Horn Date: 10/4/48 to

reid inspection by (ii): E.I. Jenkins; R. A. Holli Date: 11/2/45

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location): 5/2/48

Projection and Grids ruled by (IV): W.E.W. Date: 8/13/48

Projection and Grids checked by (IV): W.E.W. Date: 8/13/48

Control plotted by (III): R. A. Horn Date: 2/4/49

Control checked by (III): F.J.Tarcza Date: 2/4/49

Planimetry Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): W.J.Hughes
D.A.Maskell

Date: 4/20/49 to 5/27/49 6/6/49 to 6/10/49

Photogrammetric Office Review by (III):

J.W. Vonasek

Date: 6/16/49 to 6/24/49

Elevations on Manuscript Date: checked by (II) (III):

U.S.Coast and Geodetic Survey single lens camera, Camera (kind or source) (III): type "J"

			PHOTOGRAPHS ((111)	
	Number	Date	Time	Scale	Stage of Tide
	48J911	5/2/48	1417	1:10,000	2.3' above MLW
	912	11	1418	1:10,000	2.4 & 1.8' above MLW (N&S shores)
	913	Ħ	1418	lt .	2.9' above MLW
	914	ŧI	1419	11	н
•	91.5	a	1419	11	u ,
	916	lt ,	1419	If	11
	930	Ħ	1430	n	1.2 above MLW
	931	tf	1431	11	ff .
	932	ti .	1432	TT .	Ħ
	933	ti	1433	it .	st .
	934	tt	1433	ıt	11

Tide (III)

Reference Station: Newport

Subordinate Station: Subordinate Station:

See remarks

Washington Office Review by (IV): C. Hanarick

Final Drafting by (IV): R. Breeze + a. Berry

Drafting verified for reproduction by (IV): C. Kupiec

Proof Edit by (IV): J.J. Streifler

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

Shoreline (More than 200 meters to opposite shore) (III): 19

Shoreline (Less than 200 meters to opposite shore) (ill):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III): Recovered: Recovered:

Identified:

Identified:

[Ratio of Mean | Spring | Ranges | Range | Range

1.0 3.5 4.4

Date: 2-28-50

Date: 3-3/-50

Date: 7-24-50

4₩

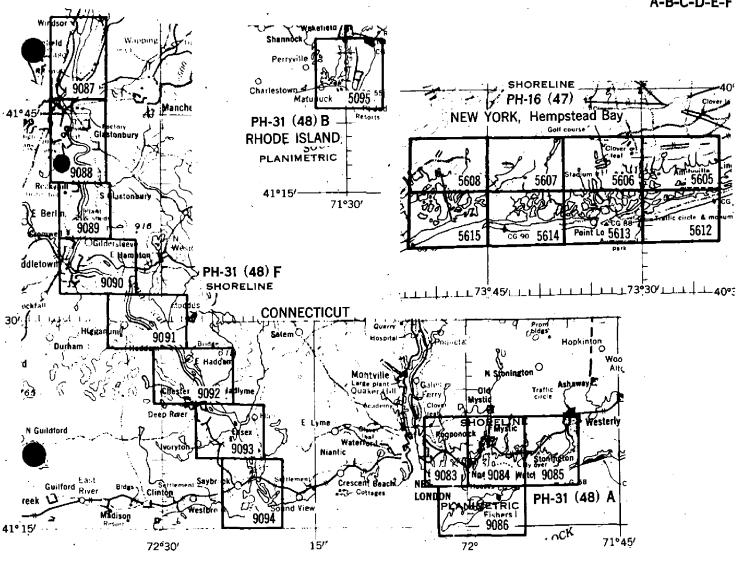
Remarks:

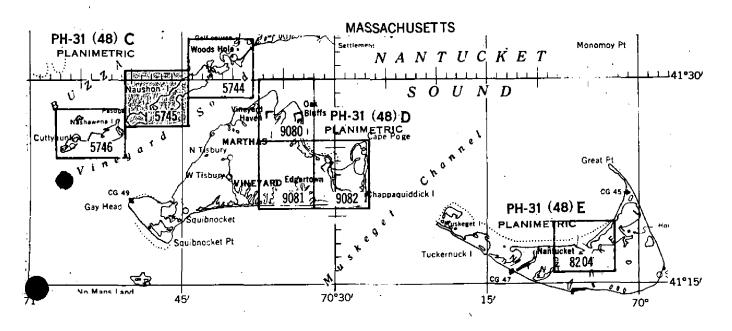
	Ratio of	Mean	Spring
	Range	Range	Range
Quicks Hole South	0.7	2.5	3.1
Quicks Hole Middle	0.9	3.0	3 . 7
Quicks Hole North	1.0	3.5	4.4
Tarpaulin Cove	0.5	1.9	2.4
Kettle Cove	1.1	3.8	4.7

0

^{*} One additional control station was established and identified during field inspection.

PLANIMETRIC AND SHORELINE MAPPING PROJECTS PH-16(47) - PH-31(48) A-B-C-D-E-F





Summary to Accompany T-5745

۷.

T-5745 is one of three planimetric maps in project Ph-31(48), subproject C. This subproject covers the area of the Elizabeth Islands including Woods Hole on the southwest tip of Cape Cod, Massachusetts. T-5745 covers the west portion of Naushon Island, and all of Pasque Island.

The photographic coverage which consisted of 1:10,000 scale single-lens ratio prints was adequate and the compilation is complete. The field operations preceding compilation included complete field inspection, establishment and identification of additional horizontal control, clarification and annotation of photographic detail and an investigation of geographic names. The graphic compilation was done at a scale of 1:10,000.

Data pertaining to this survey will be filed as follows:

- 1. Filed in the Div. of Photogrammetry
 - a. The original acetate manuscript at 1:10,000 scale with final review corrections applied.
 - b. Geographic names sheet
 - c. Pricking cards for identification of horizontal control.
 - d. Forms 524
 - e. Duplicate descriptive report
- 2. Filed in the Bureau Archives
 - a. A clothbacked lithographic print of T-5745 at 1:10,000 scale
 - b. Descriptive Report

See Remar Report on foul areas

FIELD REPORT

PLANIMETRIC SURVEY T-5745

For field data covering Survey T-5745, refer to field inspection report for sub-project PH-31(48)C, - locality of Woods Hole and Elizabeth Islands, Massachusetts submitted by Riley J. Sipe, Chief of Party bound with descriptive report for Survey T-5746.

RADIAL PLOT REPORT

PROJECT Ph-31 (48) C

SURVEYS T-5744, T-5745, T-5746

For report on the radial plot for these three surveys, see
Descriptive Report T-5746

Page 8.

MAP T-5745	•	PROJECT NO.	CT NO. PH-31(48)C	SCALE OF MAP 1:10,000	000	SCA	SCALE FACTOR 1.000	JR 1.000
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 192' DIST FROM GRID OR FINE	N.A. 1927 - DATUM BISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
NAUSHON, 1844	G-3720 Pg.219	N.A. 1927	70 44 33.520			754.7	1096.3	3.00119
SUB. PT. NAUSHON, 1844			41 29 70 44			766.4	1084.6	
N COVE SE, 190	G-5985 Pg.410	=	41 28 07.348 70 45 28.882			226.7	1624.3	
NAUSHON SOUTHWEST 2, 1887	G-5985 Pg.407	=	41 27 01.291 70 47 20.149			39.8	1811.2	
SUB.PT NAUSHON SOUTHWEST 2, 1887			41 27 70 47			46.4	1804.6	
1AKB, 1948	G-7806 Pg. 520		,41 27 18.084 70 49 30.388	6-7804 Library		557.9	1293.1	
SUB.PT. LAMB, 1948						551.3	1299.7	
PASQUE, 1844	G-3720 Pg-219	#				1766.9	84.1	
SUB.PT. #An PASQUE, 1844			26			1778.3	(72.7)	
SUB. PT. "B" PASQUE, 1844			41 · 26 70 50			1781.0	(70.0)	
		-						
COMPUTED BY: Wayne Lineweaver	Lineweave	 	DATE 1-28-49	снескер вт. Frank J. Tarcza	k J.Tarcz		DATE	2/2/49.

COMPILATION REPORT T-5745

This manuscript is one of three planimetric surveys in Project PH-31(48), sub-project "C", covering the area of Elizabeth Islands, Mass.

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot report has been submitted separately to the Washington office on 14 February 1949. Bound with descriptive report for T-5746. Covers sheets T-5744-45-46

31. DELINEATION

Graphic methods were used in the delineation of this survey.

Part of Nashawena Island falls in the extreme southwest corner but was delineated on Survey No. T-5746.

32. CONTROL

Refer to the photogrammetric plot report for T-5744 to T-5746, submitted by Frank J. Tarcza, February 1949, regarding density and placement of control.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

Approximately ten percent of the cutline of the shallow areas The remainder was is based on data furnished by the field party. delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment - See Ruised Report

37. LANDMARKS AND AIDS

Refer to form 567 submitted by R. A. Horn, 20 November 1948. See Revised Report

38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic stations or photo-hydro stations were established.

39. JUNCTIONS

Junctions to the east with sheet 5744 and to the west with sheet 5746 were made and both are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment

41. TIDAL BENCH MARKS

There are tidal bench marks listed in the area of Tarpaulia Cove, Kettle Cove and Robinson Hole, but they were not delineated because they were not identified by the field party.

46. COMPARISON WITH EXISTING MAPS

This manuscript has been compared with the U. S. Geological Survey quadrangle, Naushon Island, edition of 1944, scale 1:31,680 and Woods Hole, advance edition, (surveyed in 1936), scale 1:24,000, Previous surveys Nos. T-1937 (1889-96) and T-1938 (1889) of this bureau, scale 1:10,000, exist in the area of this survey but were not available for comparison.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U.S.C.& G.S. chart No. 345, March 1942 (7th edition) corrected to May 31, 1948, scale 1:10,000, and also with USC&GS chart No. 249, September 1941 (14th edition) corrected to May 3, 1948, scale 1:40,000 and found to be in good agreement.

Items to be applied to nautical charts immediately:

None

Items to be carried forward

None.

Respectfully submitted 13 June 1949

Doris A. Maskell

Cartographic Draftsman

Approved and forwarded

July 1949

Thos. B. Reed

Officer in Charge

Baltimore Photogrammetric Office

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-5745

1. Projection and grids July 2. Title July 3. Manuscript numbers July 4. Manuscript size July	<u>W</u>
CONTROL STATIONS	
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of	of less
than third-order accuracy (topographic stations) 7. Photo hydro stations 8. Bench marks	יו או
9. Plotting of sextant fixes 210. Photogrammetric plot report 211. Detail points	
ALONGSHORE AREAS	
(Nautical Chart Data)	
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. to navigation 17. Landmarks 18. Other alongshore physical features 19. Other al	. Aids
shore cultural features	<u>-</u>
PHYSICAL EFATURES	
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereos	scopic
instrument contours 24 Contours in general 25. Spot elevetions 26. Other ph	vsical
features DW	•
27. Roads 28. Buildings 29. Railroads 20. Other cultural features	
BOUNDARIES 31. Boundary lines 22. Public land lines 22.	
MISCELLANEOUS	
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrep	oancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms	w
40. Coseph Would Joseph Stamburg	
Reviewer Supervisor, Review Section of 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, manuscript is now complete except as noted under item 43.	The
Compiler Supervisor	
A2. Paragram	

43. Remarks:

REMARKS

- 6, 9, 15, 16, 29, 30, 31, 32: None of these items appear on the manuscript.
- 8. Tidal Bench Marks are discussed in the compilation report.
- 13. No LWL was furnished.
- 36. A discrepancy overlay is not needed.

T-5745

COMMERCE DEPARTMENT

Form 567 April 1945

U. S. COAST AND GEODETIC SURVEY

STRIKE OUT ONE TO BE CHARTED

NONFLOATING AIDS ORXEMBREMARKS FOR CHARTS
Division of Photogrammetry
Washington, D. C.

oct. 10

I recommend that the following objects which have (natarata) been inspected from seaward to determine their value as landmarks be charted on caretactoring the charts indicated.

The positions given have been checked after listing by C. Handwich

S. V Griffith

	C. Let No. 8 47 (1949)			•					7	2	Chief of Party.
STATE					POSITION	_		METHOD			19A H
	Massachusetta		-	LATITUDE	LOA	LONGITUDE		LOCATION	DATE	DE CH	CHARTS AFFECTED
CHARTING NAME		SIGNAL	0	D.M.METERS	0	D.P. METERS	DATOM	SURVEY No.	LOCATION		
F1. W.,	Terpaulin Cove Light-ho, 78' high (A Fernaulin Cove, Lighthouse)		17	28 2667	70 45	2667 70 45 670.2 1927	1 1	Triangu lation	1904	M	भूद
				-'		-,					
- -											
		-			-					ř	
	Note: Et of Tr obtained	from Ch	art 2	the char	acter	~e4 Ф					
	period of Lt from 1948 Light List. Recovered as control Station in 1948.	1948 Li ol Stat	ght 1 fon 3	118 to 1948.		-					
-		,				•	· · · · · · · · · · · · · · · · · · ·				
						•					
			,	•					- -		
					 					•	
											13.
										-	

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 individual field survey sheets. Information under each column heading strong. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

```
GEOGRAPHIC NAMES
                     · Bondoin Road -
   Black Woods
   - Blaney Pond
   ✓ • Buzzards Bay*
  Crane Pond
  Crescent Beach
  Eagle Hollow
- Elizabeth Islands
· French Watering Place
                                                  Political name
     1. Hollow Gate Path
   ✓- * Kettle Cove
                     L'Main Road
  . Mt. Cary
  , - , Mt. Surat
                      - Nashawers Save
                      K. North shore Road
  · Naushon Island
  Naushon Point
                      W. North Manin Road
  · Pasque Island
  Quicks Hole
  Rams Head
  Ramshead Woods
  Robinson Hole
  Silver Beach
  : - South Bluff F. South Bluff Road
  South Bluff
  South Rock
  / Tarpaulin Cove
  ✓ Vineyard Sound*
  Weepecket Islandst. Western Hills Path -
  West Beach
West EndnPond
  Witchest Glen - ON 1 (1) TETTY
U- Yellow Gate Wall- rek descriptive report for T-5744 (name approved therein)
      * Name of township in which the Elizabeth Islands lie; does not
        appear on the manuscript.
     · Witches Glen
                            * after name signifies a Board
                               decision (6th Rip. or later)
```

Names precédéd by - eve apprived 9-19-49 1=3-30-10 Litteck. aid. 61

Review Report of T-5745 Planimetric 12 October 1949

- 2. Completeness of Field Inspection. No inland inspection of marsh areas was noted on the field photographs.
- 31. Delineation.-Numerous marsh areas and brush covered swales (noted as marsh and brush) were added to the manuscript during review. Under the stereoscope these areas appeared to be low and wet. A comparison was made with registered topographic surveys and maps of other agencies to substantiate this interpretation.

Offshore grass in water areas indicated on the manuscript in the vicinities of Kettle Cove and Tarpaulin Cove were deleted. Dark under-water discolorations in these areas had been noted by the field inspector as "vegetation" which apparently was intended to be interpreted as under-water marine growth.

On Naushon Island and NE of West End Pond, the location of a trail (an enclosed loop) was changed to agree with the field delineation after examining it with a stereoscope.

In the few instances where the field inspector had indicated intermittent ponds these had been delineated as such by the compiler, but in other areas ponds comparable in size and appearance had been shown as perennial; this inconsistency was resolved by indicating all ponds perennial, and deleting small and insignificant ponds for the following reasons: maps of other agencies as well as previous surveys by this Bureau indicate all ponds as perennial. It is believed that this is the truer representation, since most of these ponds have no surface drainage (field note) except for seepage and evaporation.

33. Supplemental Data.-The following surveys of this Bureau were inspected for any additional information and were used to some extent to substantiate the interpretation of photographic detail: T-1937 (1889); T-1938 (1889); T-192 Bis (1933) Sheet 2 of 3; T-192 bis (1933), Sheet 1 of 3. All surveys listed are at the scale of 1:10,000 and are suppressed by

35. Shoreline and Alongshore Details.—The conventional symbol for the delineation of rocky bluffs was not used. Although the symbolization was not changed during the review, they were noted as being rocky. In one or two instances, the field inspector had indicated the bluffs to be sand and rock. Also, the statement was found in the descriptive report submitted for topographic survey T-6621 (1938), that most of the shore line along the Elizabeth Islands was rocky with numerous rocks along the foreshore broken up by occasional short stretches of sand beaches.

16.

It was found that the delineation of some of the foul areas by the field inspector was too generalized in that no distinction was made between foul areas and shallow areas not foul, and in some instances the selection of the photograph with the best definition to indicate the foul areas or individual rocks was not made. All shallow areas outlined by the compiler were noted as being foul with numerous rocks awash at NHW; these areas were checked and changes were made to distinguish the foul from the shallow areas. In most instances foul areas were discernible on the photographs, but this was not so of the shallow areas.

The numerous offshore rocks awash, which were located in position, on the manuscript, were checked. Most of these rocks were not located specifically by the field inspector on the photograph except for the notation on the photograph that the area was foul with numerous rocks awash NHW; it was found that the location or existence of some of these rocks was doubtful and they were deleted. A few rocks were added.

- doubtful and they were deleted. A few rocks were added. Refer to 36. Offshore Details.-Two rocks at latitude 41°27.32! Where rocks are deleted. These rocks were identified by the field inspector on photograph 912 in an area where a great deal of light was reflected, and were questionable since they could not be seen on photograph 911 with good definition. Furthermore, they would fall in about 11-14 feet of water on Chart 345, where no rocks are shown.
- 37. Landmarks and Aids.-Only one non-floating aid to navigation is found on the manuscript. Since it was not found listed on Form 567, filed as Chart Letters 650 (1949) and 826 (1948), in the Nautical Chart Branch, Division of Charts, it has been listed on Form 567 and a copy attached to this report. C-L. 847(1849)
 - 79. Comparison with Existing Maps.
 L. Naushon Island, Mass., quadrangle; sheet 6866

 IV NE; Scale 1:25,000; First Edition (AMSI)

 1947.

2. Cuttyhunk, Mass., quadrangle; sheet 6866 IV NJ; Scale 1:25,000; First Edition (AMSI) 1947.

3. USGS Cuttyhunk, Hass., quadrangle; scale 1:31,680; Edition of 1944.

4. USGS Naushon Island, Mass., quadrangle; scale 1:31,680; Edition of 1944; reprinted 1946.

47. Comparison with Nautical Charts. 3
1. Nautical Chart No. 345; scale 1:10,000; published Earch, 1942; last correction 9-6-48.

2. Nautical Chart No. 249; scale 1:40,000; published September, 1941; last correction 6-13-49.

No significant differences occur between the map and the charte note item 36.

Reviewed by:

APPROVED:

Chief, Review Section Fulm.
Division of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

Supplement to Review Report

During the review of this survey alongshore and offshore rocks shown on the manuscript have been verified by the reviewer against prior surveys listed under item 33 and/or the photogrammetric survey or by positive identification in stereopairs of photographs. Many offshore rocks have not been shown because they could not be positively identified on the photographs and were not located by the photogrammetric field party. Offshore rocks should be located by subsequent hydrographic surveys. The foreshore is generally foul and boulder strewn with many bare rocks, rocks awash and sunken rocks. A foul line marks the limits of such areas.

S. V. Griffith Chief, Review Section

NAUTICAL CHARTS BRANCH

SURVEY NO. 5745

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-22-52	1233	Kennon, D.J.	After Verification and Review
9/29/52	260	3.8. Saulebury	Before, After Verification and Review
3/19/53	263	e. Leich	Before After Verification and Review After 1& 2-3/55
6-14-54	345	J. NEuton	Part and. Before After Verification and Review
3-20-73	249	J. Bailey	Before After Verification and Review No corr
			Before After Verification and Review -
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
		·	

M-2168-1

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

Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.