8915

Diag. Cht. No. 1116-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PHOTOGRAMMETRIC SHORELINE

Field No. ..... Office No. T-8915

LOCALITY

State Louisiana

General locality Gulf Coast Intracoastal Water-way

Locality Mermentau Lake - Lacassine Bayou

1946-'47

CHIEF OF PARTY

R.A.Gilmore, Chief of Field Party

T.B.Reed, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE August 28, 1950

8-1870-1 (1)

8915

Form T-1

DATA RECORD

T-8915

Quadrangle (II):

Project No. (II): PH-14(46)

Field Office:
Morgan City

Chief of Party:
Ross A. Gilmore

Compilation Office:
Baltimore, Md.

Chief of Party:
Thos. B. Reed

Instructions dated (II III):
Not dated

Copy filed in ~~Descriptive Report No. T-~~ ~~(VI)~~ Division of Photogrammetry Office Files.

Completed survey received in office:
Oct. 22, 1948

Reported to Nautical Chart Section: Oct. 1948

Reviewed: July 5, 1949 Applied to chart No. 883 Date: 3/27/50

Redrafting Completed:

Registered: 8/-1/50

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): MHW

Reference Station (III): ENTRANCE (U.S.G.S.) 1933

Lat.:
29° 58' 30.26" (931.7m)

Long.:
92° 48' 12.39"(332.2m)

Adjusted ~~Unadjusted~~

State Plane Coordinates (VI): Louisiana South

X =

Y =

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
* 18600	11/23/46	1450	1:10,000	Not applicable
18601	"	1451	"	
18602	"	1452	"	
18603	"	1500	"	
* 18604	"	1501	"	
* 18605	"	1501	"	

* field print also furnished

Tide from (III):

Mean Range: **Spring Range:**

Camera: (Kind or source)
U.S.C.& G.S. nine lens camera, focal length 8¼"

Field Inspection by: Harold A. Duffy, Charles H. Bishop **date:** 5 July to 26 Sept. 1947

Field Edit by: none **date:**

Date of Mean High-Water Line Location (III):
Same as date of photographs supplemented by field inspection

Projection and Grids ruled by (III) W.E.W. **date:** 5/21/48

" " " **checked by:** W.E.W. **date:** 5/21/48

Control plotted by: Unknown(Washington office) **date:** Unknown

Control checked by: " " **date:** "

Radial Plot by: Roscoe J. French, Frank J. Tarcza **date:** 12 July 1948, 7 Sept. 1948

Detailed by: Leroy A. Senasack **date:** 13 Sept. 1948 to 19 Oct. 1948

Reviewed in compilation office by: J.W.Vonasek **date:** 18 Oct. to 20 Oct. 1948

Elevations on Field Edit Sheet checked by: not applicable **date:**

STATISTICS (III)

Land Area (Sq. Statute Miles): 19

Shoreline (More than 200 meters to opposite shore): 37½ statute miles

Shoreline (Less than 200 meters to opposite shore): 34 statute miles

Number of Recoverable Topographic Stations established: ~~none~~ one

Number of photo hydro Stations located by radial plot: none

Leveling (to control contours) - miles:

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

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

Remarks:

MAP T-8915 PROJECT NO. PH-14(46) SCALE OF MAP 1:10,000 SCALE FACTOR 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 CORRECTION~~ Tolerance	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
~~B.M. Sta. 53+00 (USE)~~	~~Grand Lake W. (USE) PAZ~~ No 3	~~N.A. 1927~~	~~29° 58' 04.404"~~ ~~92 46 17.933~~	See Form 524	2.2mm	~~135.6 (1711.9)~~ ~~480.8 (1127.9)~~	~~See Item 26 in Compilation Report~~
T ENTRANCE (USGS) 1933	Grand Lake W. "USE" No 2	"	29 58 30.26 92 48 12.39			931.7 (915.8) 332.2 (1276.4)	

1 FT. = .3048006 METER

COMPUTED BY: L.M. Sazik DATE 6-2-40 CHECKED BY: H. Murray DATE 6-3-48

M-2388-12

FIELD REPORT

SHORELINE MANUSCRIPT SURVEY NO. T-8915

For field data covering Survey No. T-8915, refer to the field report, GULF INTRACOASTAL WATERWAY, L 81 (1947) Vermilion Bay, La. to Port Arthur, Texas, submitted by Ross A. Gilmore, dated October 1947.

Filed in the Nautical Chart Branch, Div. Charts.

RADIAL PLOT REPORT

PROJECT NO. PH-14-(46)

Surveys Nos. T-8915, T-8916, T-8917, T-8918, and T-8919

GENERAL DESCRIPTION

This radial plot includes the areas of Surveys Nos. T-8915 to T-8919, inclusive, which comprise part of a series of shoreline surveys in Project PH-14(46), located along the Intracoastal Waterway in Louisiana and Texas. The area of this radial plot extends from longitude 92° 45' (near Mermentau River) westward to longitude 93° 15' (near village of Grand Lake, La.)

PHOTOGRAPHS

The photographs used in this combined radial plot were all nine-lens photographs, scale 1:10,000, taken with the US.C.& G.S. nine-lens carera, focal length 8¼ inches. There were 29 photographs used in this radial plot, numbered as follows:

18599 to 18621 inclusive
18626 to 18632 "

The symbols for control and pass points used on these photographs are in accordance with photogrammetry instructions No. 12 dated 17 March 1947.

CONTROL

There were eighteen (18) horizontal control stations recovered and identified by the Field Inspection party in the area of this radial plot. One of these, GRAND LAKE, 1931, was identified by use of a substitute point. At JUNCT, 1934, Reference Mark No. 2 was identified. All other stations were pricked direct on the photographs.

A sketch showing distribution of control and photographs in the area of this radial plot is attached to this report.

PROJECTIONS

The map manuscripts furnished the compilation office for the area of these surveys were ruled with polyconic projections and Louisiana South, 5000-foot interval grids, at a scale of 1:10,000. Vinylite base sheets, ruled with base grids, scale 1:10,000, previously furnished the compilation office for another project, were used for this radial plot.

All control, including substitute point and reference mark, was plotted and checked on the map manuscripts using beam compass and meter bar. All identified control stations were transferred to base sheets by matching common grid lines.

TEMPLETS

Acetate templets were made of all photographs, using a master templet furnished by the Washington Office to correct for paper distortion and chamber displacements and distortion in the nine-lens photographs.

RADIAL PLOT

The radial plot of surveys adjoining the area of this radial plot on the east was completed by the Washington Office previously. Pass points and photograph centers established therein along the junction were transferred to the base sheets. It was first attempted to use these and continue to extend the radial plot westward. It was not possible, however, to hold the next control station CADY, 1933, and Reference Mark No. 2 at JUNCT, 1934. The laying of the plot was then started in Survey T-8917, where five control stations falling on three photographs established a strong fix for running the plot in both directions. The plot was then extended eastward to make a junction with the previously completed plot in the middle of Survey T-8915. It was not possible to hold the previously established centers and pass points around control station ENTRANCE, 1933, while the station was held. By extending the plot farther eastward a satisfactory junction was made with the previous plot by holding to the pass points and radially plotted position of B.M. 53+00 (USE). This made it necessary to move the last four photograph centers and pass points in the western end of the previous plot. The photograph centers were moved from a minimum of 0.5 mm to a maximum of 1.5 mm.

four
See Item 27 in T-8917 Descr. Rep't.
Mon

The Washington Office plot was probably weak in this area because there was only one control station, ENTRANCE, 1933, on Survey T-8915 which was held. Three of the photographs, whose centers were moved, fell beyond station ENTRANCE (USGS) 1933 and were not controlled.

The remainder of the plot westward from T-8917, where this radial plot was started, was completed without difficulty. One badly tilted photograph No. 18628, was bypassed. All stations in the western part were held and a very strong fix was obtained from five control stations for photographs Nos. 18631 and 18632 falling near the junction between Surveys T-8919 and T-8920.

The positions of all pass points and photograph centers were transferred from the plot directly to the manuscripts by matching common 5000-ft. grid lines.

REMARKS

There were three horizontal control stations which could not be held in the radial plot:

The radially plotted position of R.M. No. 2, JUNCT, (USGS) 1934, falls 0.9 mm north of its geographic position. The field party reported the station as being lost due to widening of the canal and the referencemonument was

found in poor condition, leaning 45°. Since the ~~geographic~~ position falls in water, it is assumed that R.M. No. 2 has been moved. See Review Report for T-8916

The radially plotted position of CADY, (USGS) 1933 falls 1.2 mm northeast of its geographic position. No apparent reason for this discrepancy has been found. ~~The position of this station should be verified at time of field edit.~~ No field edit to be done. See Review T8916

B.M. STATION 53+00 (USE) as identified by the field party falls 2.2 mm. northeast of its geographic position. It is believed that the station identified in the field is BM MON. 53+00 (USE) for which a position is not available, and according to the description in the U. S. Engineers publication, Horizontal and Vertical Control Data, Grand Lake West Quadrangle, La. on page B1, is 60 feet offset from pipe. BM STATION 53+00 (USE) is described in the aforementioned publication on page A2 as a 1½ inch pipe in concrete. This station is believed to be lost. ~~It is recommended that the radial plotted position of the station identified by the field party be checked at the time of field edit.~~ See 524 card for BM Mon. 53+00 for T-8915

The number and distribution of photographs was adequate. There was sufficient horizontal control, except at the junction with the previous plot, for a satisfactory radial plot.

Respectfully submitted

Frank J. Tarcza

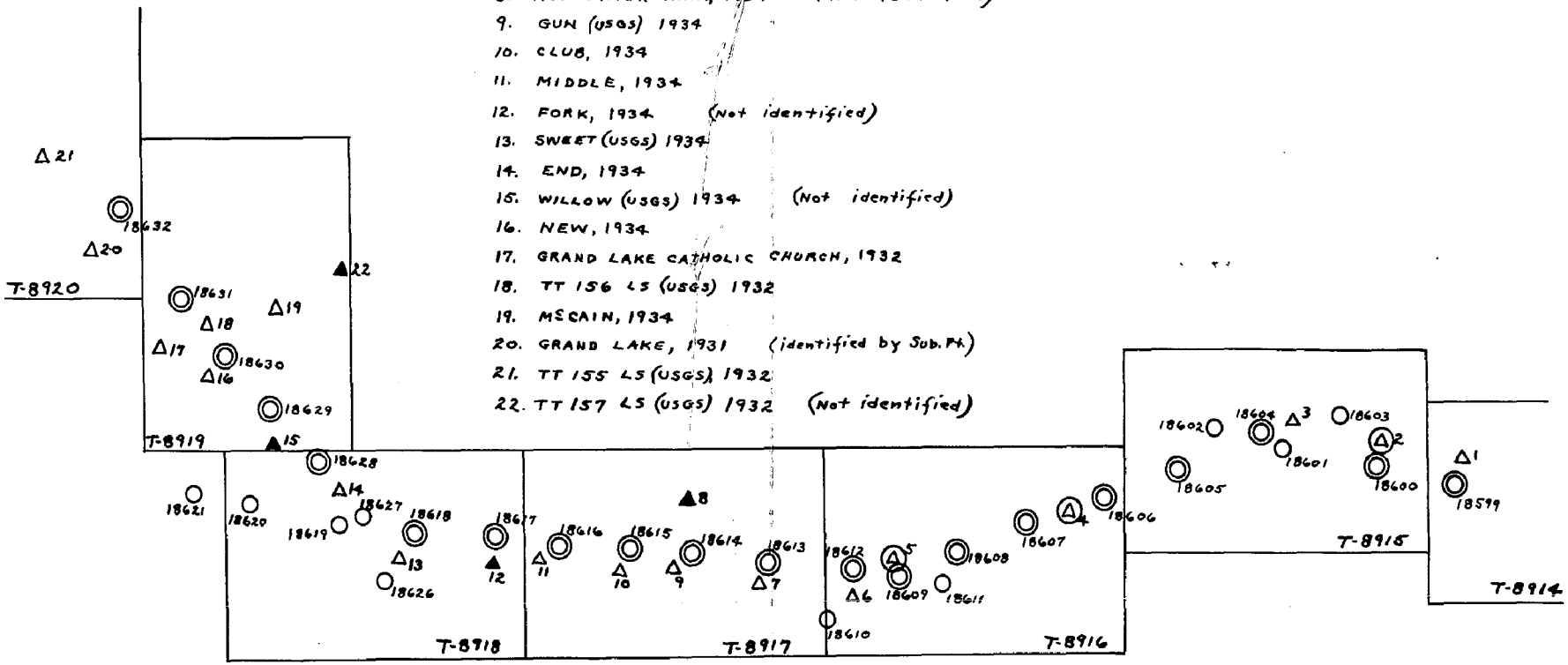
Frank J. Tarcza
Cartographic Engineer

Approved and forwarded
16 September 1948

Thos. B. Reed

Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office

1. GRAND (USGS) 1933
2. B.M. STA. 53+00 (USE)
3. ENTRANCE (USGS) 1933
4. CADY (USGS) 1933
5. JUNCT (USGS) 1934 (R.M.#2 identified)
6. CLAY, 1934
7. SAND, 1934
8. RED WATER TANK, 1934 (Not identified)
9. GUN (USGS) 1934
10. CLUB, 1934
11. MIDDLE, 1934
12. FORK, 1934 (Not identified)
13. SWEET (USGS) 1934
14. END, 1934
15. WILLOW (USGS) 1934 (Not identified)
16. NEW, 1934
17. GRAND LAKE CATHOLIC CHURCH, 1932
18. TT 156 LS (USGS) 1932
19. McCAIN, 1934
20. GRAND LAKE, 1931 (identified by Sub. PK)
21. TT 155 LS (USGS) 1932
22. TT 157 LS (USGS) 1932 (Not identified)



○ Office Photographs
◯ Field Photographs
△ Triangulation Stations (identified and held in radial plot)
Ⓐ Triangulation Stations (not held in radial plot)
▲ Triangulation Stations (not identified)

LAYOUT SKETCH

PROJECT NO. PH-14(46)
SURVEYS NOS. T-8915, T-8916,
T-8917, T-8918, & T-8919

F.S.Y.

COMPILATION REPORT

SHORELINE MANUSCRIPT SURVEY NO. T-8915

This manuscript is one of a series of surveys in Project No. PH-14 (46) covering a narrow strip of land along the Gulf Intracoastal Waterway from Houma, La. to Corpus Christi Bay, Texas. This project was undertaken to furnish the necessary data to prepare a new series of inland waterway charts at 1:40,000 scale.

Compilation instructions were not furnished for this project.

26. CONTROL

This manuscript was received from the Washington Office with control plotted thereon. A list of the stations is included in this report on Form M-2388-12.

B.M. Station 53+00 (USE) as identified by the field party falls 2.2 mm northeast of its geographic position. It is believed that the station identified in the field is B.M. Mon. 53 + 00 (USE) for which a position is not available and according to the description in the U. S. Engineers publication Horizontal and Vertical Control Data, Grand Lake West Quadrangle, La. on page B 1, is 60 feet offset from pipe. B.M. Station 53+00 (USE) is described in the aforementioned publication on page A 2 as a 1½ inch pipe in concrete. This station is believed to be lost. It is recommended that the radial plotted position of the station identified by the field party be checked if practicable. A Form 524 for B.M. Mon. 53+00 is in the general files of the Division of Photogrammetry.

27. RADIAL PLOT

The radial plot for this survey was made in the Washington Office and the Baltimore Photogrammetric Office. Refer to the radial plot reports covering Surveys Nos. ~~T-8909 through~~ T-8915 thru ~~and Survey~~ Nos. T-8919, submitted by Roscoe J. French and Frank J. Tarcza, dated 12 July 1948, and 16 September 1948 respectively. ~~Filed in Div. Photogr. General Files~~ filed within this report.

28. DELINEATION

The compilation is in accordance with Photogrammetry Instructions No. 17, dated 15 September 1947. Div. Photogr. Office files

The choked areas in Bayou Lacassine and Bayou Misere are not delineated, for they are believed to be floating hyacinths.

The position of the shoreline between Grassy Point and Cypress Island is weak due to poor photographic coverage.

30. MEAN HIGH WATER LINE

The mean tide range in the area covered by this manuscript is about one foot thereby making the MHWL and the MLWL for all practical purposes one and the same.

31. MEAN LOW WATER LINE

See Mean High Water Line.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

No comment

33. WHARVES AND SHORELINE STRUCTURES

No comment

34. LANDMARKS AND AIDS TO NAVIGATION

Five lights and seven daybeacons falls within the limits of this survey, the positions of which were determined by radial plot. The seven daybeacons were pricked on Photo. No. 18599 by the Washington Office, and the pricking on photo No. 18600 was done by the Baltimore Photogrammetric Office. Refer to form 567 attached to this report.

35. HYDROGRAPHIC CONTROL

None

36. LANDING FIELDS AND AERONAUTICAL AIDS .

None

37. JUNCTIONS

This survey is bounded by the project limits to the north and south.

Junctions were made with Survey T-8914 to the east and Survey T-8916 to the west, and are in agreement.

38. GEOGRAPHIC NAMES 814

The geographic names were taken from the final name sheet furnished this office. A list of names is attached to this report. Approved by Geogr. Names Section, Div. Charts.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

This survey was compared with U. S. Geological Survey Latania Lake, La., quadrangle, scale 1:31,680, edition of 1934. Quite a few changes were

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE (Cont'd.)

found to exist, the major of which are:

1. Land area has diminished in Maple Marsh
2. The Intracoastal Waterway cuts Browns Island in two parts.
3. A large ditch east of Bayou Lacassine and north of the Intracoastal Waterway

45. COMPARISON WITH NAUTICAL CHARTS

Due to the great difference in scale between this survey (scale 1:10,000) and nautical chart No. 1051 (scale 1:175,000) a minute comparison could not be made.

The following topographic information shown on T-8915 is of sufficient importance to warrant immediate application to the chart:

None.

The following topographic details above the plane of MHW are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None

Minor differences in cultural and shoreline details need no special discussion.

Respectfully submitted
19 October 1948

Engineering Aid (Photo.)

Harry R. Rudolph
Supervisor

Joseph W Vonasek
Photogrammetric Engineer
Photogrammetric Office Reviewer

Approved and forwarded
26 October 1948

Officer in Charge
Baltimore Photogrammetric Office

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ — STRIKE OUT ONE

Baltimore, Maryland 15 October 1948

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

The positions given have been checked after listing by Joseph W. Vonasek

Joseph W. Vonasek

Thos. B. Reed
Chief of Party.

STATE			POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM							
DAYBEACON 10	Pipe Line		29 56	1130	92 45	37	N.A. 1927		Photo. Comp	Oct. 1948		x	x	883 1051
DAYBEACON 12	Pipe Line		29 56	1373	92 45	219	"		"	"		~~x~~	x	"
DAYBEACON 14	Pipe Line		29 56	1614	92 45	405	"		"	"		x	x	"
DAYBEACON 16	Pipe Line		29 57	11	92 45	592	"		"	"		x	x	"
DAYBEACON 18	Pipe Line		29 57	254	92 45	775	"		"	"		x	x	"
DAYBEACON 20	Pipe Line		29 57	498	92 45	962	"		"	"		x	x	"
DAYBEACON 22	Pipe Line		29 57	745	92 45	1150	"		"	"		x	x	"
Lt.	Grassy Point		29 56	89	92 46	1333	"		"	"		x	x	"
Lt. 2	Lermentau River		29 57	1198	92 47	309	"		"	"		x	x	"
Lt. 4	" "		29 58	667	92 47	353	"		"	"		x	x	"
Lt. 6	" "		29 58	539	92 47	1399	"		"	"		x	x	"
Lt. 8	" "		29 58	584	92 48	146	"		"	"		x	x	"

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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 individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

- Bayou Lacassine (North of Intracoastal Waterway)
- Bayou Lacassine (South of Intracoastal Waterway)
- Bayou Misere
- Browns Island
- Cypress Island
- Grassy Point
- Intracoastal Waterway
- Lacassine National Wildlife Refuge
- Lacassine Point
- Latania Bayou
- Long Cutoff
- Maple Marsh
- Mermentau Lake (Pending with U.S.B.G.N.)
- Mermentau River
- Mud Lake
- Nigger Island
- Onion Hill
- Short Cutoff
- Willow Cutoff
- Willow Island

Names preceded by • are approved. 6-30-49.
L. Heck.

Review Report
Shoreline Survey T-8915

44 Comparison with Existing Surveys

A. Quadrangles
Latania Lake, La. 1:31,680, 1934

B. Topographic Surveys:
T-6176 1:20,000, 1934
T-8915 supersedes T-6176 for nautical charting purposes.

C. Hydrographic Surveys:
There are no contemporary surveys in this area.

47 Adequacy of Compilation

Field inspection was adequate in the immediate vicinity of the Intracoastal Waterway.

Reviewed by:
Howard J. Murray
Howard J. Murray 5 July 1949

Approved by:

L. V. Griffith
Chief, Review Section

H. H. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

Wm. Scaife
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8915

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Mar 27, 50	883	S.J. Ruszczynsky	~~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
			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
			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.