

5935

Diag'd. on Diag. Ch. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. CS-262-A Office No. T-5935

LOCALITY

State California

General locality San Pablo Bay

Locality Sanoma Creek - Napa River & Vicinity

194 3

CHIEF OF PARTY

K.G. Crosby

LIBRARY & ARCHIVES

DATE

April 7-1949

B-1870-1 (1)

5935

RS.N. 4859

C.M.

Form T-1

DATA RECORD

T- 5935

Quadrangle (II):

Project No. (II): SS 262 A

Field Office: San Francisco, Calif Chief of Party: S. B. Grenell

Compilation Office: Tampa, Fla. Chief of Party: K. G. Crosby

Instructions dated (II III): 9/4/41

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 19 Oct. 1943

Reported to Nautical Chart Section:

Reviewed: 24 July 1945 Applied to chart No. 5533 Date: 2-7-47

Redrafting Completed: 20 Nov. 1947

Registered: April 1949

Published: Feb. 1948

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): ^{M.H.W.}
~~M.S.L.~~ 1929

Reference Station (III): Sonoma Creek 3 - 1921

Lat.: 38°08'34".677(1069.16 m. Long.: 122°22'02".560(62.34) Adjusted
m. Unadjusted

State Plane Coordinates (VI):

Zone 2

X = 1,894,333.43

Y = 173,678.65

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
6430	9/3/41	2:57	1:10,000	3.6
6431	"	2:58	"	3.6
6419	"	2:45	"	3.7
6420	"	2:46	"	3.7
6421	"	2:47	"	3.7
6422	"	2:48	"	3.7
6460	"	3:26	"	3.1
6467	"	3:37	"	3.0
6468	"	3:38	"	3.0
5582	5/18/41	1:25	"	0.4

Tide from (III); Sonoma Creek entrance (reference Sta. San Francisco)

Mean Range: 4.5 ft.

Spring Range: 6.0 ft. (Diurnal)

Camera: (Kind or source) USC&GS 9 lens

Field Inspection by: Ensign L. F. Woodcock

date: 1942

Field Edit by: None

date:

Date of Mean High-Water Line Location (III): Date of photographs

Projection and Grids ruled by (III) Wash. Office

date: 4/8/43

" " " checked by: " "

date: "

Control plotted by: J.L.White, Prin.Photo.Aid

date: 4/17/43

Control checked by: H.Dossett, Prin.Photo.Aid

date: 4/19/43

Radial Plot by: Tampa Office Personnel

date: 4/19/43-4/29/43

Detailed by: B.O.Eryant, Sr.Photo.Aid

date: July-Sept. 1943

Reviewed in compilation office by: A.L.Kidwell, Jr.

date: Sept. 1943

Topo.Engr.

Elevations on Field Edit Sheet
checked by: _____

date:

STATISTICS (III)

Land Area (Sq. Statute Miles); 16.72

Shoreline (More than 200 meters to opposite shore); 13.4 Nautical Miles

Shoreline (Less than 200 meters to opposite shore); 89.7 " "

Number of Recoverable Topographic Stations established; 3

Number of Temporary Hydrographic Stations located by radial plot; 12

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;

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-5935

CONTROL

Nine triangulation stations appear on this sheet, seven of these stations are transmission towers and could easily be identified on photographs. There was adequate control to insure a good radial plot. All stations were held during the radial plot.

MAIN RADIAL PLOT

The discussion of the radial plot which includes this sheet has been made a part of descriptive report of Sheet T-5934. There were approximately six radial points to each chamber of photographs used in Main Radial Plot. Additional radials were cut in direct from photographs on to survey sheet by the draftsman with excellent results by holding these secondary control points in addition to the triangulation.

DETAILING

The photographs used in detailing this sheet were generally clear, the scale of most of the photographs was found to be reasonably good. The largest discrepancy was found to be in the matching of chambers of photographs where double images were found. Some of the chambers were found to be out as much as 5 to 8 meters. Junction between chambers 1 and 5 of photograph 6430 was found to be off approximately 6 meters. Junction between chambers 7 and 3 of photograph 6429 was found to be off approximately 6 meters. Other chambers were found to be off but not as bad as above mentioned ones. Photograph 5582 could not be used due to the fact of extreme tilt, however, it was used in determining the approximate limits of shoal area as the 6400 series of photographs were taken at a time when the tide was higher. The approximate limits of shoal area were stopped at limits of photograph 5582. The extent of shoal area will have to be determined by the Hydrographer. Chamber 7 of photograph 6420 was not used. Apparently the negative slipped in printing the photograph and the draftsman could not get satisfactory cuts on points in this chamber.

SUPPLEMENTAL DATA

There was no supplemental data available for this sheet.

LANDMARKS AND AIDS TO NAVIGATION

There are no uncharted landmarks in this area worthy of being charted.

Aids to Navigation are listed on Form 567 which is made a part of this report.

HYDROGRAPHIC CONTROL

~~Two~~ ^{Three} marked H & T stations appear on this sheet and are listed on Form 524.

Twelve unmarked H & T stations appear on this sheet which can be recovered and used by the Hydrographer for future purposes. These stations were determined by the radial plot.

GEOGRAPHIC NAMES

Only those geographic names considered so well established as to be correct beyond question are shown on this sheet. This was done in accordance with a letter from the acting Director dated December 2, 1942, reference 28-PFA 1990.

Filed in Div. of Photogrammetry- Office Files

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the following quadrangles:

California, Napa Quadrangle, edition of May 1902, reprinted 1932, published by the Department of Interior U.S.G.S.

California, Mare Island Quadrangle, edition of 1916, reprinted 1927, published by the Department of the Interior U.S.G.S.

Due to the difference in time when photographs were taken and when quadrangle sheets were compiled there has been numerous changes in the terrain which this sheet covers. California, Mare Island Quadrangle, edition of 1942 published by War Department, Corps of Engineers, U. S. Army, was found to be in good agreement except at approximate Latitude $38^{\circ}09'$, Longitude $122^{\circ}21'$. Sheet T-5935 shows this as being cultivated land whereas the quadrangle sheet shows this terrain as being marsh land. Due to scale difference only a visual comparison was made with these sheets.

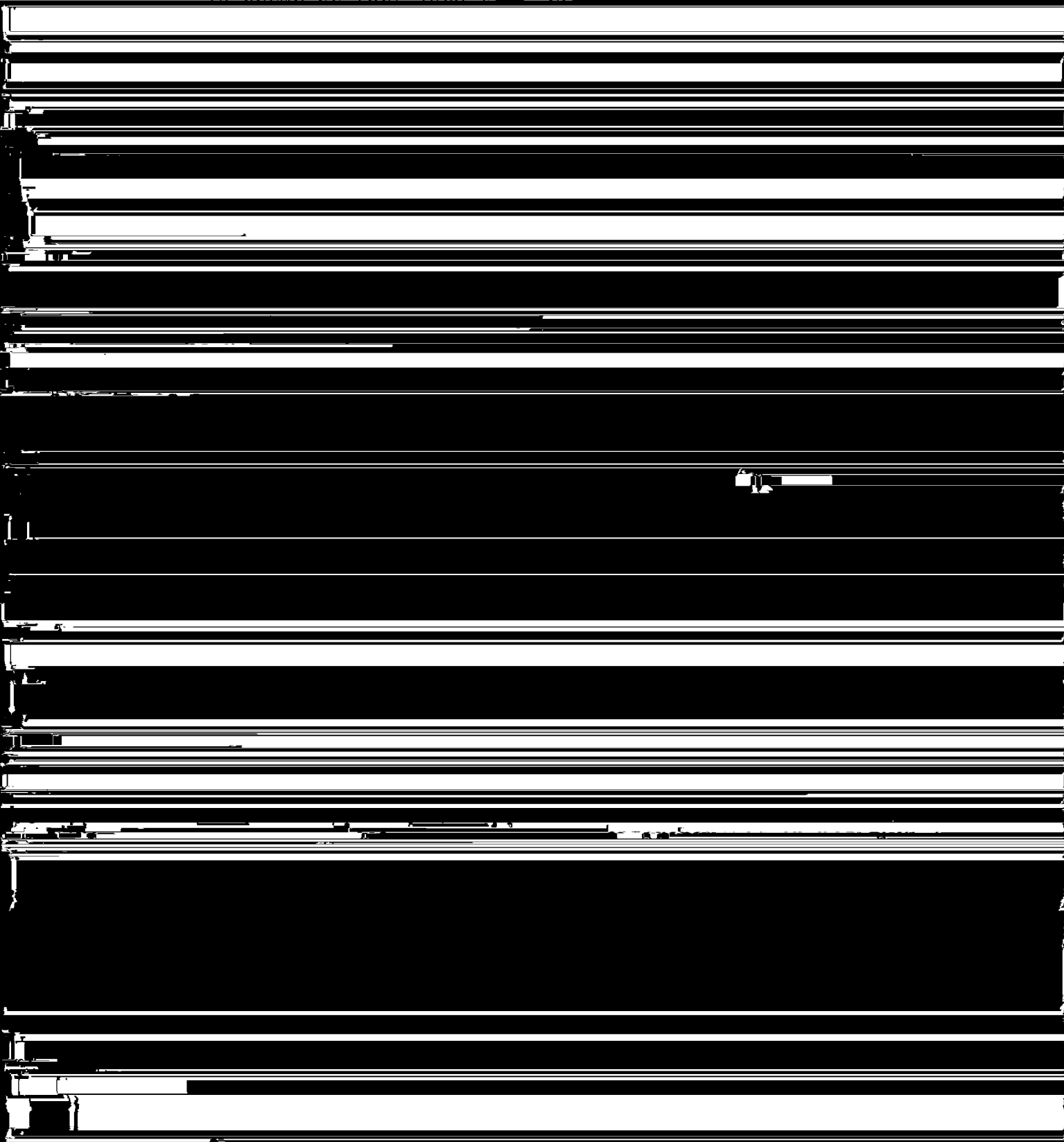
COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U. S. C. and G. S. west coast, California Nautical Chart 5533. Several discrepancies occur from this comparison.

At approximate Latitude $38^{\circ}09'$, Longitude $122^{\circ}21'$ west to mouth of Sonoma Creek the terrain is shown as marsh on Sheet T-5935 whereas Nautical Chart 5533 shows it as being fast land. Land north of Napa Slough is

12
3
5
9
7
3
5
86
7

shown as fast land on sheet T-5935 whereas Nautical Chart 5533 shows it as being part fast and part marsh. All that land embraced by China Slough and South Slough is shown as being marsh on Sheet T-5935 whereas Nautical Chart 5533 shows it as being part fast and part marsh. All that land embraced by South Slough and Dutchman Slough is shown as fast land on Sheet T-5935 whereas Nautical



NON-EXHAUSTIVE ON FIELD INSPECTION

1.1. - double full line road

Pr. - pier

2.1. - double dash line road

Lo. - dock

3.1. - single dash line trail

Bo. Ho. - boathouse

H. - home

Is. - island

B. - barn

W. - water

Bu. - building

Ma. - mud or sandy

Tr. - track

Th. - thick

R.R. - railroad

Scr. - scrub

B. - bridge

H.W.L. - high water line

Qu. - quiver

L.W.L. - low water line

C. - cross

Ditch - ditch

Hwy. - highway

P. - pond

C. - creek

Orch. - orchard

☐ In Chart
☐ In previous survey
☐ In U. S. quadrangle
Maps
☐ From local
information
☐ In local Maps
☐ P. O. Guide or Map
☐ Rand McNally Atlas
☐ U. S. Light List

Survey No. T-5935

<u>California</u>	✓			(for title)		USGB	1
<u>San Pablo Bay</u>	✓			380224			2
<u>Napa River</u>	✓			381222		"	3
<u>Dutchman Slough</u>	✓			381223			4
<u>South Slough</u>	✓			"			5
<u>China Slough</u>	✓			"			6
<u>Knight Island</u>	✓			"			7
<u>Banty Island</u>	✓			"			8
<u>Napa Slough</u>	✓			381224			9
<u>Skagg Island</u>	✓			"			10
<u>Sonoma Creek</u>	✓			"			11
<u>Tubbs Island</u>	✓			"			12
<u>Tubbs</u>	✓	(locality name)	"	see chart	5533		13
<u>Tolay Creek</u>	✓	(a small section)	"				14
							15
							16

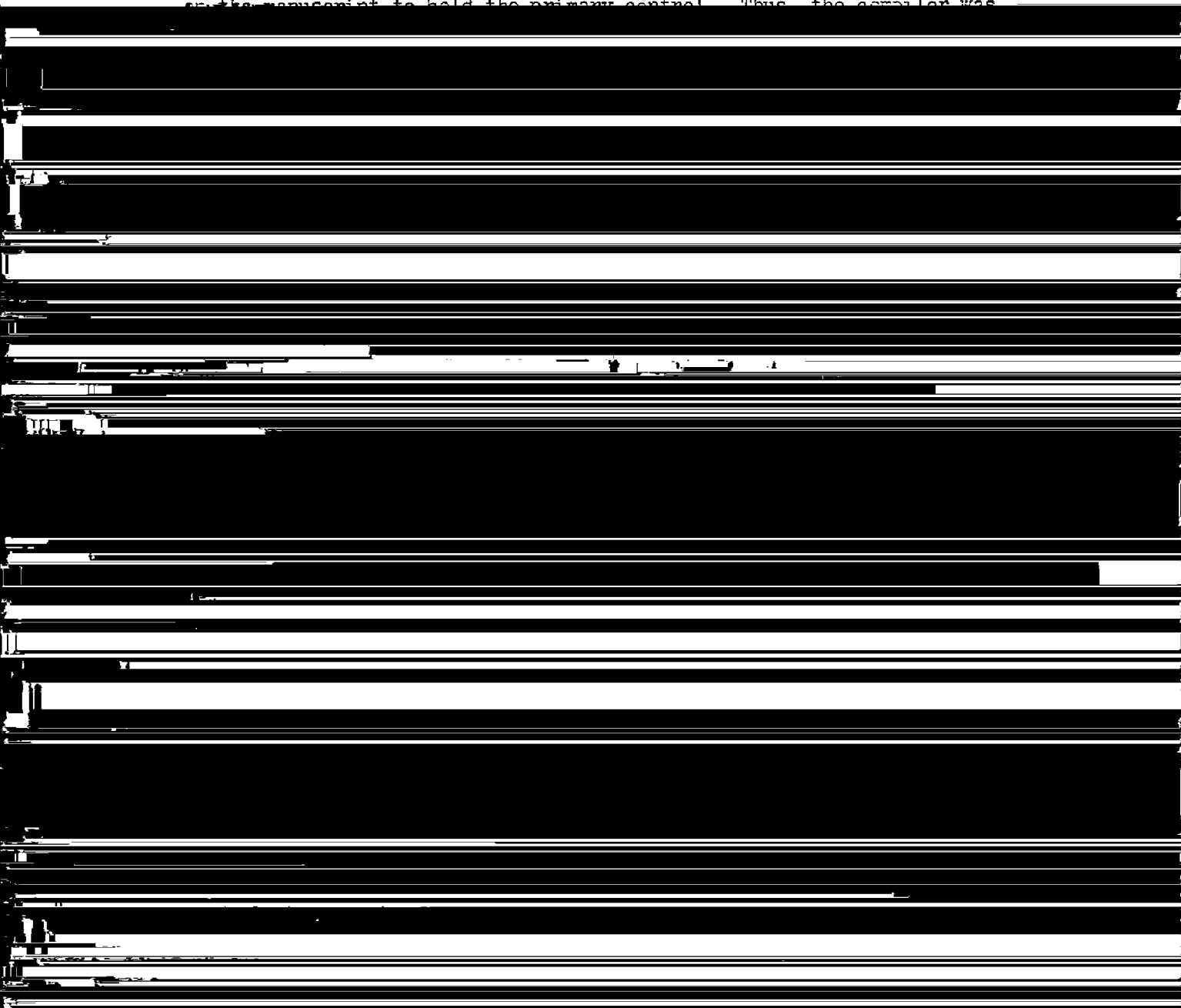
Review of Air Photographic Survey T-5935

26 Control

See page 12 of Field Inspection Report on San Pablo Bay Area, California for Chart 5533, (filed under *Field Inspection Reports, Project 262, Suisun Bay, California, Division of Photogrammetry, General Files)

27 Radial Plot

Upon examination of that portion of the plot covered by sheet T-5935, it is evident that inaccurate transfer of centers of the photographs did not permit holding azimuths. Several originally selected and several new detailed points were cut in. It was necessary to disregard picked centers on the manuscript to hold the primary control. Thus, the controller was



land, flooded pasture, and cultivated areas has been done by the compiler in the office. Some areas may be questioned because of insufficient field notes obtainable.

44. Comparison with Existing Surveys

4017	1/10000	1921-22
4019	1/10000	1922

There are numerous differences of shoreline limits and marsh area, but because of continuous changes it is believed that this sheet supersedes all previous surveys of this Area.

51. Application to Charts

This map manuscript was partially applied to chart 5533 before review.

Reviewed by:

Under the direction of :

R. J. Tallman c.t.
R. J. Tallman 7-24-45

L. V. Griffith c.t.
Chief, Review Section

B. G. Jones 4/49
Tech. Asst. to Chief,
Division of Photogrammetry

H. C. Johnston
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Survey

NAUTICAL CHARTS BRANCH

SURVEY NO. T5935

Record of Application to Charts

[illegible]

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.