10966 ORIGINAL

10966

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. *Office No.* T-10966

LOCALITY

State FLORIDA

General locality CALOOSAHATCHEE RIVER

Locality NORTH OF DENAUD

19 59

CHIEF OF PARTY

George E. Varnadoe, Chief of Field Party
William R. Kachel, Tampa District Officer

USCOMM-OC 5087

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -10966

Project No. (II): PH-5806 Quadrangle Name (IV):

Field Office (II): Tampa, Florida Chief of Party: George E. Varnadoe

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: William R. Kachel

Instructions dated (II) (III): 11 June 1959 (Office and Field) Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:20,000

Date received in Washington Office (IV): 1-31-61 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 21 Nov 1961

Publication Scale (IV): Publication date (IV):

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 (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): DENAUD, 1937 (on T-10971 to the south)

Lat.: 26°44'18.358" (565.0 m.) Long.: 81°30'37.565" (1038.1 m.) Adjusted
~~Unadjusted~~

Plane Coordinates (IV): State: FLORIDA Zone: EAST

Y= 874,390.61 ft. X= 333,406.43 ft.

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

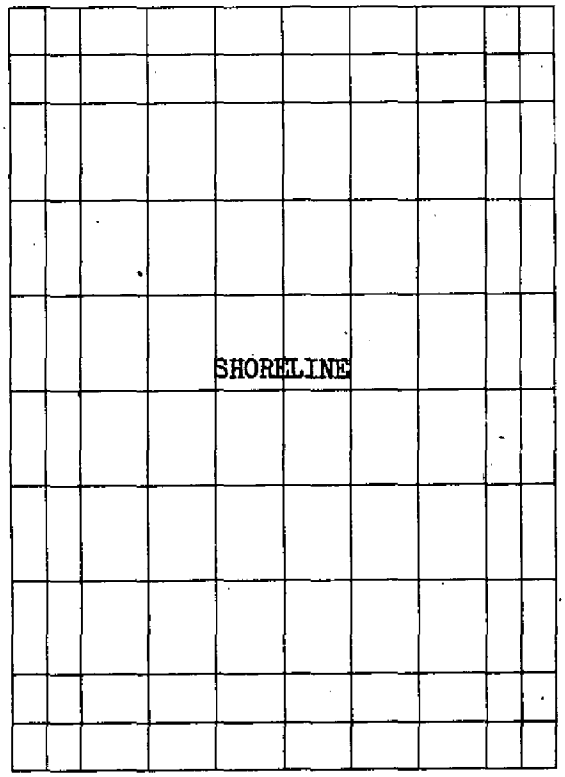
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

Inapplicable

FORM 181b
(4-23-54)

3,

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): George E. Varnadoe Date: Dec. 1959

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): Inapplicable Date:

Mean High Water Location (III) (State date and method of location): Air photo compilation
Date of photography: 25, March 1959

Projection and Grids ruled by (IV): J. Keefer (W.O.) Date: June 1960

Projection and Grids checked by (IV): Wm. Souders (W.O.) Date: June 1960

Control plotted by (III): R. E. Smith Date: Aug. 1960

Control checked by (III): V. P. Cackowski Date: Aug. 1960

~~Radial Plot or~~ Stereoscopic
Control extension by (III): R. E. Fuechsel (W.O.) Date: June 1960

Stereoscopic instrument compilation (III): Planimetry R. E. Smith Date: Sept. 1960

Contours Inapplicable Date:

Manuscript delineated by (III): R. E. Smith Date: Sept. 1960

Photogrammetric Office Review of compilation by (III): I. I. Saperstein Date: Oct. 1960

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Single-lens Wild "W"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
59-W-3598	25 March 1959	1029	1:30,000	*
3599	"	1030	"	
3600	"	1031	"	

*No tidewater on this manuscript

Tide (III)

Ratio of Ranges	Mean Range	Spring Range

Reference Station: Inapplicable
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): J. Stauffer Date: Aug. 1961

Final Drafting by (IV): R. E. Smith, Jr. (Tampa District Office) Date: Dec. 1960
" " Review by: W. H. Shearouse " " " Dec. 1960
Drafting verified for reproduction by (IV): J. Stauffer Date: Aug. 1961

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 3
Shoreline (More than 200 meters to opposite shore) (III): 0
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 0 Recovered: Identified:
Number of BMs searched for (II): 0 Recovered: Identified:
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

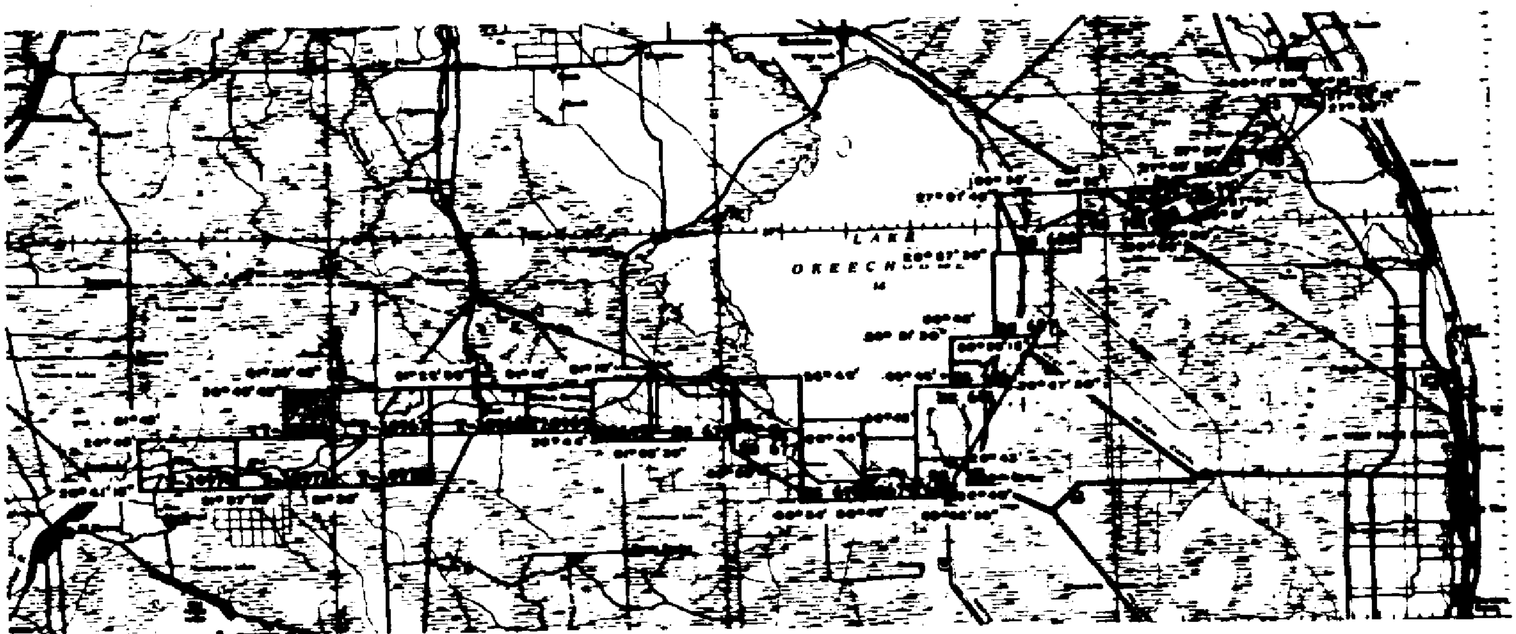
Remarks:

COMM-DC-57842

PROJECT PH-5806

LOCATION OF AIDS TO NAVIGATION

LAKE OKEECHOBEE, FLORIDA



Offical Milage For Cost Accounts

Sheet Number	Area Sq. Mi.	Lin. Mi. Shoreline
RS 675	26	11
RS 676	16	1
RS 677	25	14
RS 678	21	16
RS 679	9	16
RS 680	7	15
RS 681	15	29
RS 686	21	14
RS 687	21	18
RS 688	26	19
RS 701	20	7
RS 702	14	7
RS 703	8	4
RS 704	17	6
T-10966	16	8
T-10967	33	8
T-10968	33	9
T-10969	21	5
T-10970	33	8
T-10971	33	8
T-10972	33	3
TOTAL	[illegible]	217

5

SUMMARY

to Accompany Shoreline Map Manuscripts T-10966 thru T-10972

The seven (7) subject shoreline surveys represent the western part of Project PH-5806. The project covers the inland waterway from the city of Stuart on the east coast of Florida westward through the St. Lucie Canal, the Okeechobee Waterway and the Caloosahatchee Canal and River to the outskirts of Ft. Myers near the Gulf of Mexico. The inland waterway from Stuart to Lake Hicpochee is covered by fourteen (14) R.S. sheets and the remainder by aforementioned seven shoreline surveys.

The purpose of these maps was to replace previously completed T-sheets of substandard accuracy by new compilations T-10966 through T-10972 and the location of aids to navigation for the entire project.

A stereoplanigraph bridging plot was done in the Washington Office in June 1960 covering subject map manuscripts. They were compiled by Kelsh plotter at the Tampa District Office from 59-W series photography of March 1959 and field inspection information of October to December of 1959.

The submitted final map compilations are the result of adequately scribed sheets and suitable for the direct reproduction of file copies.

A cronar film positive at the compilation scale of 1:20,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

September 1961

LOCATION OF AIDS TO NAVIGATION, LANDMARKS, LIMITED MAP REVISIONS AND SHORELINE MAPPING LAKE OKEECHOBEE, FLORIDA.

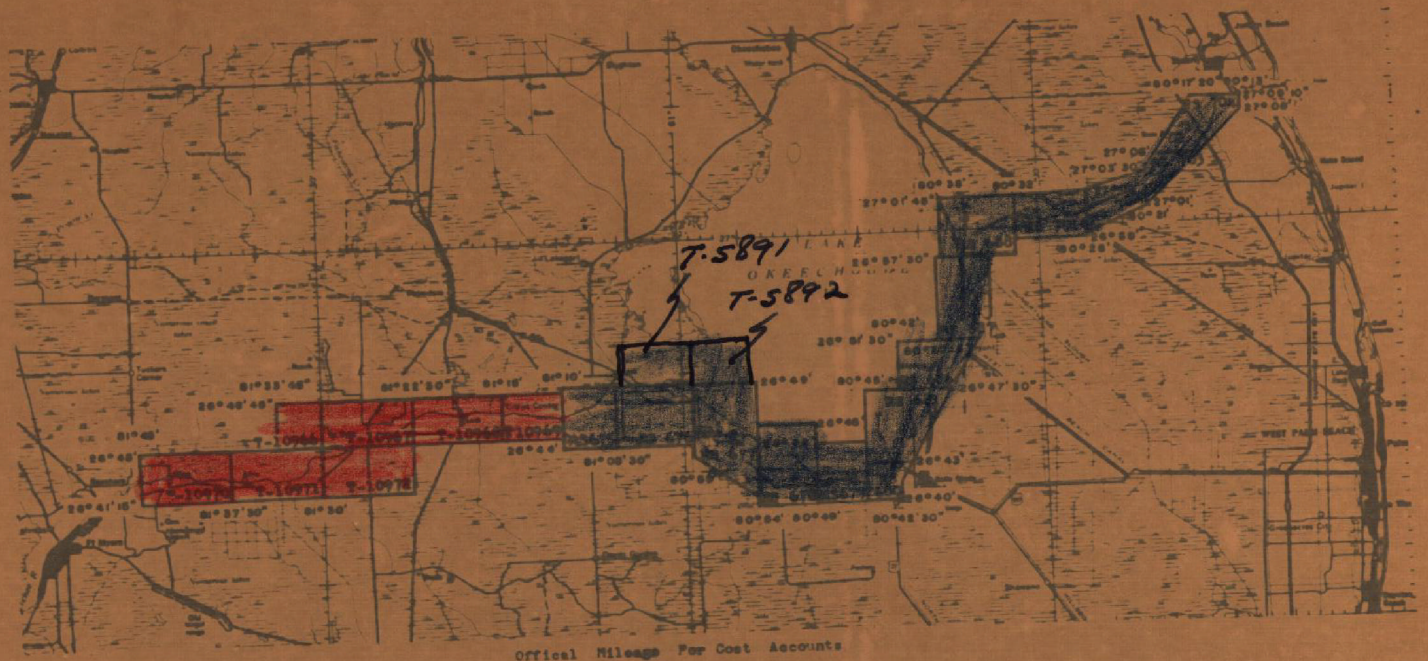
FIELD AND OFFICE INSTRUCTIONS 11 JUNE 1959.

TAMPA DISTRICT OFFICE FOR FIELD AND OFFICE. FIELD INSPECTION WAS DONE IN OCTOBER, NOVEMBER AND DECEMBER 1959; COMPLETED 11 DECEMBER 1959.

PROJECT PH-5806

LOCATION OF AIDS TO NAVIGATION

LAKE OKEECHOBEE, FLORIDA



Offical Mileage For Cost Accounts

Sheet Number	Area Sq. Mi.	Lin. Mi. Shoreline
RS 675	26	11
RS 676	36	1
RS 677	25	14
RS 678	21	16
RS 679	9	16
RS 680	7	15
RS 681	15	29
RS 686	21	14
RS 687	21	18
RS 688	24	19
RS 701	20	7
RS 702	14	6
RS 703	8	4
RS 704	17	6
T-10966	16	0
T-10967	33	8
T-10968	33	9
T-10969	21	5
T-10970	33	8
T-10971	33	8
T-10972	33	3
TOTALS	466	215

Inspection for Map Revision & Aids to Navigation

Inspection & Control for New Maps

FIELD INSPECTION REPORT
PROJECT PH-5806

2. AREAL FIELD INSPECTION

Field inspection for the new shoreline surveys (sheets T-10966 thru T-10972) was done on 1:30,000 scale photographs. Due to the scale of the photographs, very little space was allowed for labels and notes, therefore notes and labels will be found on more than one photograph for any one area where the features to be mapped are congested.

It is believed that the field inspection is complete and adequate however, due to the small scale photographs it may be that the compiler will find some features under the magnification of the Kelsh Plotter that were not classified in the field, altho a magnifying glass was used during the field inspection.

In the remainder of the project, field inspection was confined to areas where the changes were of sufficient magnitude to be shown on the 1:80,000 scale chart. This inspection was done on 1:7,500 scale photographs along the lake shore and 1:30,000 scale photographs along the St. Lucie Canal and River.

It will be noted that some areas along the lake shore were not surveyed except by visual inspection due to the lack of photographic coverage. These areas were compiled as grass in water in 1942 and subsequent to that time the grass (fresh water marsh), tuckahoes, etc. have increased to such an extent the areas should be mapped as marsh with an apparent shoreline. It was impractical, if not impossible to survey these areas by instruments due to the depth of the water and soft mud (ooze) bottom.

3. HORIZONTAL CONTROL

In the area of the new shoreline surveys all stations were identified as requested. They are all stations established by this bureau. No supplemental control was established. In the remainder of the project only stations that were possible landmarks were visited except in the vicinity of the OMNI RANGE(RS 681 E/2) where three monumented stations were searched for. Form 526 was submitted for each station searched for.

The Omni Range was located by triangulation intersection method from three points on the dike along the lake shore, which were located by the three point fix method from four natural objects and one monumented triangulation station.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

All drainage in the area of the new shoreline surveys has been classified and labeled. The streams are clearly discernible on the photographs except where they enter swamps. In these swamps there is no definite drainage pattern.

6. WOODLAND COVER

Classified in accordance with the instructions.

7.. SHORELINE AND ALONGSHORE FEATURES

The greater part of the water area in the Caloosahatchee River and Canal is a dredged Cut. The tide does not affect the water level in any part of the area except in the western part of T-10970 (Lower Caloosahatchee River) where high tide possibly does slow the current and raise the water level slightly. The high and low water line is synonymous, therfore there is no foreshore. Spoil banks of varying heights, forming bluffs, are along the dredged cut. Estimated elevations are shown on or adjacent to these bluffs.

All piers, wharves, pier ruins, boat landings and other alongshore features have been labeled.

8. OFFSHORE FEATURES

All offshore features that are discernible on the photographs have been labeled, any others were located by sextant cuts or fixes.

9. LANDMARKS AND AIDS

All landmarks, except two, were identified on the photographs. The excepted two were located by ground survey methods and plotted on the cronoflex copy of the map. They are located in the town of Clewiston. One is a radio mast built since photography and one is a water tower which is beyond the limits of photography. Heights were determined for all and Form 567 submitted.

Aids were identified on the photographs where discernible, others were located by theodolite or sextant using photo-points. Form 567 is submitted for each. ----- Buoys shown on Chart 1289 along route 2 have been removed and in most cases replaced by daybeacons.

All aids along route 2 were located and in addition daybeacons 1 through 8 along Bacon Point Channel, daybeacon 16 and 17 and buoys N 18 and C 19 Clewiston Channel and daybeacon 2 off St. Lucie Canal were located.

All aids in the Caloosahatchee River and St. Lucie River that are within the project were located.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

Inapplicable.

12. OTHER INTERIOR FEATURES

There are five overhead cables in the area of the new shoreline surveys. The end, or shoreline poles have been identified on the photographs. The clearances of the new bridge spanning the waterway at LaBelle were obtained from the area office of the Corp of Engineers at Clewiston. (This and other information is to be found in a publication by that Bureau titled "Intracoastal Waterway Fernandina to Key West, Florida and Okeechobee Waterway" dated 1 October 1959. A copy of which is being submitted.) This is a bascule bridge and the published clearance is, horizontal 90 feet Vertical, 31.3 feet.

Three discrepancies in clearances of overhead cables were noted between the above publication and chart 1289. They are: At Alva Bridge Publication clearance 79 feet, Chart 1289 clearance 81 feet. At LaBelle Bridge, Publication clearance 79 feet, Chart 1289 clearance 80 feet. 3 miles east of SAL Ry Bridge, Indiantown, Fla. Publication clearance 72 feet, Chart 1289 clearance 63 feet.

charted clearances are authorized clearances. C of E listings noted above are "as built". AHZ 8/22/61

13. Geographic Names

Inapplicable.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None except above mentioned Corp of Engineers publication.

Respectively submitted,

George E. Varnadoe

Approved and Forwarded:

Arthur L. Wardwell
Chief of Party

COMPILATION REPORT T-10966

PHOTOGRAMMETRIC PLOT REPORT

The Stereo-bridge Report is submitted with T-10970.

31. DELINEATION

The Kelsh Plotter was used. The diapositives were sharp but could have been printed lighter.

Field inspection was good and few problems were encountered.

32. CONTROL

See Stereo-bridge Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage not noted by inspection was apparent.

35. SHORELINE AND ALONGSHORE DETAILS

None.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions were made with T-10967 to the east and T-10971 to the south. This manuscript falls within USGS quadrangle TELEGRAPH SWAMP S.E. which is not available in this office, but it junctions with the ALVA quadrangle to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

This manuscript falls within USGS quadrangle TELEGRAPH SWAMP S.E., 1957, which is not available in this office.

47. COMPARISON WITH NAUTICAL CHARTS

No nautical chart coverage.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rexford E. Smith, Jr.
Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED & FORWARDED

William R. Kachel
William R. Kachel
Tampa District Officer

48. GEOGRAPHIC NAME LIST

The name FORT DENAUD CEMETERY was submitted by the field inspector.

George D. Beal
Geographic Names Section

REVIEW REPORT OF
SHORELINE MAP MANUSCRIPTS T-10966 THRU T-10972

62. Comparison with Registered Topographic Surveys:

T-5884	1:10,000	1939
T-5885	1:10,000	1939
T-5886	1:10,000	1939
T-5887	1:10,000	1939
T-5888	1:10,000	1939
T-5889	1:10,000	1939

There are minor shoreline changes between these surveys. Cultural changes are more numerous throughout. Subject surveys are to supersede above-listed T-sheets of common area for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

OLGA, FLA.	1:24,000	1958	U.S.G.S.
ALVA, FLA.	1:24,000	1958	U.S.G.S.
SEARS, FLA.	1:24,000	1958	U.S.G.S.
LA BELLE, FLA.	1:24,000	1958	U.S.G.S.
GOODNO, FLA.	1:24,000	1958	U.S.G.S.

The culture and drainage of these topographic quadrangles was compiled in part from photography of 1951-52 and this information differs between these surveys.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

1289 1:80,000 . Revised to 61 7/3

There are only minor differences between these surveys that can be detected in consideration of scale difference.

66. Adequacy of Results and Future Surveys:

These shoreline map manuscripts have been compiled according to instructions and no deficiencies in adequacy or accuracy are indicated.

Reviewed by:

Josef J. Streifler, Sept. 1961

Approved by:

L C Lundy
Chief, Review & Drafting Sec.
Photogrammetry Division

Marvin T Paulson
Chief, Nautical Chart Division

J E Waugh 8/3/62
Chief, Photogrammetry Division

Max B Ricketts
Chief, Operations Division

49. NOTES FOR THE HYDROGRAPHER

None.

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

15 H

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10966

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS

4a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy WHS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks XX
9. Plotting of sextant fixes XX 10. Photogrammetric plot report W.O. 11. Detail points W.O.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline XX 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features XX 19. Other alongshore cultural features XX

PHYSICAL FEATURES

20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

27. Roads WHS 28. Buildings WHS 29. Railroads XX 30. Other cultural features WHS

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report MMS 38. Field inspection photographs WHS 39. Forms XX

40. William H. Shearouse — Reviewer
William H. Shearouse

Milton M. Slavney — Supervisor, Review Section or Unit
Milton M. Slavney

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. The manuscript is now complete except as noted under item 43.

Compiler _____ Supervisor _____

43. Remarks:

COMM-DC 34529

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10966

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			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
			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.