
Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey  PLANIMETRIC

Field No. Ph-5801 Office No. T-10822

LOCALITY
State  SOUTH CAROLINA
General locality  COOPER RIVER
Locality  SNOW POINT TO BUSHY PARK

19.58
CHIEF OF PARTY

Arthur L. Wardwell, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE  August 1962
DESCRIPTIVE REPORT - DATA RECORD

T - 10822

Project No. (II): Ph-5801
Quadrangle Name (IV):

Field Office (II): Moncks Corner, S. C.
Chief of Party: Arthur L. Wardwell

Photogrammetric Office (III): Tampa, Fla.
Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 23 July 1958
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh plotter

Manuscript Scale (III): 1:10,000
Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV):
Date reported to Nautical Chart Branch (IV):

Applied to Chart No., Date:
Date registered (IV): Oct 3, 1961

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

Geographic Datum (III): N. A. 1927

MEW Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water:

Reference Station (III): FOSTER 1928

Lat.: 32°58'33.090" (1019.4 m.)
Long.: 79°56'46.295" (1202.1 m.)

Adjusted
Unadjusted

Plane Coordinates (IV):
State: So. Carolina
Zone: south

Y = 417,285.18 Ft.
X = 2,323,169.77 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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II): George E. Varnadoe  
Date: Sept. 1958

Planetary contouring by (II): Inapplicable

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of photography - May 1958

Projection and Grids ruled by (IV): P. Dempsey (W.O.)
Date: Aug. 1958

Projection and Grids checked by (IV): R. D. Shoup (W.O.)
Date: Aug. 1958

Control plotted by (III): E. T. Ogilby
Date: Nov. 1958

Control checked by (III): E. Pursel
Date: Nov. 1958

-Radio-Plotter Stereoscopic
Control extension by (III): Washington Office

Planimetry: E. T. Ogilby
Date: Dec. 1958

Stereoscopic Instrument compilation (III):
Contours: Inapplicable

Stereoscopic Instrument Review: I. I. Saperstein
Date: Feb. 1959

Manuscript delineated by (III): E. T. Ogilby

Photogrammetric Office Review by (III): W. H. Shearouse
Date: Mar. 1959

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

### DESCRIPTIVE REPORT - DATA RECORD

**Camera (kind or source) (III):**
- WILD "L"- Infra Red
- WILD "S"- Panchromatic

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<td>Subordinate Station:</td>
<td>Red Bank Landing</td>
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- **Washington Office Review by (IV):** [Signature]
- **Final Drafting by (IV):** Tampa District Office
- **Drafting verified for reproduction by (IV):** [Signature]
- **Proof Edit by (IV):** [Signature]

**Land Area (Sq. Statute Miles) (III):** 21
**Shoreline (More than 200 meters to opposite shore) (III):** 22
**Shoreline (Less than 200 meters to opposite shore) (III):** Inapplicable

**Control Leveling - Miles (II):** Inapplicable

**Number of Triangulation Stations searched for (II):** 16
**Recovered:** 7
**Identified:** 6

**Number of BMs searched for (II):** 0
**Recovered:** 0
**Identified:** 0

**Number of Recoverable Photo Stations established (III):** 1

**Number of Temporary Photo Hydro Stations established (III):** 0

**Remarks:**
PROJECT PH-5801

Planimetric Mapping
South Carolina, Back River

Scale 1:10,000

Official Mileage for Cost Accounts

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<td>T-10822</td>
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<td>Totals</td>
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Official Mileage for Coot Accounts

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<tr>
<td>Total</td>
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SUMMARY
TO ACCOMPANY PLANIMETRIC MAP MANUSCRIPTS
T-10820 through T-10822

Subject surveys represent project FH-5801.

It is located in the State of South Carolina and covers the Back River and portions of the Cooper River directly north of the City of North Charleston.

The purpose of the three (3) surveys is to provide new planimetric maps for nautical charting.

A stereoplanigraph bridging plot of subject surveys was done in the Washington Office in December 1958. The manuscripts were compiled in pencil by Kelsh Plotter from Wild "L" and "S" photography of May 1958 and results of field inspection of September 1958 at the Tampa District Office. Subsequently scribed and completed at the Tampa District Office, the submitted map manuscripts are well suited for the direct reproduction of file copies.

A stable film positive at the compilation scale of 1:10,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

August 1961
2. AREAL FIELD INSPECTION --

The greater part of the land area is woodland. These trees range from young planted pine to virgin trees up to four feet in diameter. Included in these woodland areas are several plantations, some of which date back more than 200 years. Most of them have been either subdivided or made into private hunting clubs. Therefore, except for a few through roads, most are private and have locked gates.

It will be noted that many narrow strips of marsh and/or trees appear paralleling, as well as forming many patterns off the channel of Cooper River. These are old man-made dikes which enclosed private duck ponds. These dikes, due to the apparent raising of the water table in the upper part of the river, via a large canal emptying into the river from lakes above, are deteriorating rapidly and now, for the most part, are only a few inches above mean high water. They support vegetation ranging from marsh, sawgrass, and reeds through swamp trees to pines on the higher ones. The ponds in back of these old dikes have the same water level as the river, due to many breaks in the old dikes and what was evidently part marsh at one time is now all water. These water areas are shallow and are foul with many stakes, small piling and tree stumps.

It is believed that the field inspection is complete. In some areas it is difficult to determine the line between trees and swamp, and contrary to nature, some pine appear in swamps in marginal areas. Therefore, many of the swamp areas have been outlined in an effort to aid the compiler.

Field inspection will be found on the following photographs: 58-S-3092, 3095 through 3103, 58-L-3626 through 3635.

3. HORIZONTAL CONTROL --

All C&GS stations were searched for. A sufficient number of these (supplemented by several of other agencies) were identified to satisfy the requirements.

A legend appears on a copy of the project diagram with horizontal control requirements showing stations identified, recovered and not recovered.
The following stations were reported on form 526 as destroyed or not recovered:

DEEP, 1928          SCRUB, 1928          FARM, 1928
PARK, 1928           RUTH, 1928           DIKE, 1928
BOB, 1928            BANK, 1928           BEAST, 1928
BLOW, 1928           MAD, 1934            SOUP, 1928
RAIN, 1928           SONG, 1928           BRANCH, 1928
BASS, 1928           BAD, 1928            SIMS, 1928

Reference marks for four (4) of the above stations were recovered.

4. VERTICAL CONTROL

Three of the four Tidal Bench Marks in the project were recovered. Two were identified on the photographs.

RECOVERED AND IDENTIFIED ARE:
SAL RR BRIDGE - COOPER RIVER (West Branch) - BENCH MARK 2
DEAN HALL - COOPER RIVER - BENCH MARK 1

RECOVERED BUT NOT IDENTIFIED:
DEAN HALL - COOPER RIVER - BENCH MARK 2

NOT RECOVERED:
DEAN HALL - COOPER RIVER - BENCH MARK 3

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

It is believed that all definite drainage, except where obvious on the photographs, has been indicated thereon.

6. WOODLAND COVER

Classified according to instructions. Swamps and marginal areas are discussed under Item 2.

7. SHORELINE AND ALONGSHORE FEATURES

The majority of the shoreline is apparent being either marsh or overhanging trees with limbs on the water's edge. Where not apparent, the MFL has been indicated on the photographs.
Except in a few small areas (which have been indicated) near the southern limit of the project the MHWL and LWL will be covered by the same line.

Bluffs have been indicated and labeled.

All piers have been labeled.

Nothing remains of many boat landings that served the old plantation and they are of no value except as historical landmarks. They and boat landings in use have been labeled.

One submarine cable is in the project. It is alongside the SAL RR Bridge where it crosses the west branch of Cooper River. It was located and labeled.

8. OFFSHORE FEATURES --

Except for the many stakes, stumps and small piling, in the backwaters, discussed under Item 2, there are very few offshore features. The few that do exist have been indicated and labeled on the photographs.

9. LANDMARKS AND AIDS --

Landmarks for Nautical Charts and fixed Aids to Navigation are listed on form 567. There are no interior landmarks, aeronautical aids or floating aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES --

The only boundary lines in the project are around the U. S. Naval reservation. This is in three parcels of land and the lines have been located and labeled.

11. OTHER CONTROL --

Only two recoverable topographic stations were established. They are ABLE 1958 and BAKE 1958. These along with landmarks and recovered triangulation stations satisfy the spacing requirements in the instructions.

12. OTHER INTERIOR FEATURES --

All roads and some trails were ridden out by truck. They were classified in accordance with the instructions.
Buildings were classified according to instructions.

The clearances of bridges and cables over navigable water were obtained by direct measurements. The two cables are low and their clearances were obtained by determining the water level, below MNL, then casting a small line over the lowest wire, doubling this back to the water and taking half its length. These clearances are shown on the photographs.

13. GEOGRAPHIC NAMES

The Geographic Names investigation was completed according to the instructions. It is apparent that many of the names of points of prominence over 100 or more years ago are unknown to the present generation. Of 30 or so references contacted only a handful had any knowledge of the area in question. Therefore, the names of all references considered unreliable by this investigator have been omitted from this report.

A. Mrs. G. E. SULLIVAN
ADDRESS - Rice Hope Plantation, Moncks Corner, S. C.
OCCUPATION - Fishing Camp Operator
YEARS RESIDENT = 17

B. Mrs. VILA MYERS
ADDRESS - Rice Hope Plantation, Moncks Corner, S. C.
OCCUPATION - Domestic
YEARS RESIDENT = 40

C. JOSH SASS
ADDRESS - Moncks Corner, S. C. RFD 1, Box 112
OCCUPATION - Gardener
YEARS RESIDENT = 27

D. K. Y. MYERS
ADDRESS - Moncks Corner, S. C.
OCCUPATION - Engineer South Carolina State Highway Dept.
YEARS RESIDENT = 40

E. WILLIE WILSON
ADDRESS - Moncks Corner, S. C.
OCCUPATION - Farmer
YEARS RESIDENT = 50

F. HERBERT DANGERFIELD
ADDRESS - Oakley, S. C.
OCCUPATION - Merchant
YEARS RESIDENT = 63
G. O. H. THOMASON
ADDRESS - Charleston, S. C. Route A, Box 685
OCCUPATION - Merchant
YEARS RESIDENT - 40

SNOW POINT
Name is correctly applied on chart 680.
E
D

WOODS POINT
Name unknown to all references contacted.
D knows pier located in vicinity as Woods Pier.

YELLOW HOUSE LANDING
Name unknown to all references contacted except E knew of its existence many years ago but doubts if it still could be found.

PORT TERMINAL
Name is correctly applied on chart 680.
D
G

FIDDERS CREEK
Name correctly applied on USGS Quadrangle MBLGROVE.
D
G

FILBIN CREEK
Name unknown to all references contacted.

CEDAR HILL LANDING
Name is correctly applied on chart 680.
F

THE GROVE
A small plantation known as Grove Plantation at one time was located at position shown on chart 680.
F

BIG ISLAND
Name of island located between Back River and Cooper just south of Bushy Park.
C
D
F
BIG ISLAND
Island shown on USGS MEIGROVE quadrangle between Back River and Poster Creek is not named.

C
D

STRAWBERRY LANDING
Name unknown to all references contacted.
C and F state that many years ago a ferry called Strawberry Ferry ran across Cooper River at a point where SAL RR Bridge is now located.

RICE HOPE LANDING
Name given landing located at position of Strawberry Landing on chart 680.
A
B
C
D

COMMITTEE LAKE
Name is correctly applied on chart 680.
C
A
B

George E. Varnadore
Photo. Engineer
To: Mr. George E. Ferrandos

Through: Yeps District Office
        Corps and Geodetic Survey
        P. O. Box 190
        Yeps, Florida

Subject: Field Report—Project PB-5501

1. I was particularly interested in the control identification on this project. We have examined this carefully and it is excellent including the selection of substitute stations.

2. We have not yet received the report called for in item 6.03 of your project instructions. I would like to have this report as soon as practicable.

3. We found only one questionable item in the field records for the entire project. This has to do with apparent shoreline. Section 7 of your Field Inspection Report carries the following statement: "The majority of the shoreline is apparent being either marsh or overhanging trees with limbs on the water edge." In keeping with the latter part of your statement, I noticed that on the field photograph apparent shoreline is shown in front of "tree" areas (tree—not swamp). These trees are apparently growing on fast land but having drooping branches that overhang the shore. In some cases your field inspection notes indicate a narrow fringe of grass and water or marsh in front of the shore.

4. If I understand the condition that is noted in the preceding paragraph, shoreline on the tree areas should be solid, standard shoreline—not apparent shoreline. The grass and water or narrow fringe of marsh might make this apparent if it were wide enough to matter, i.e., a millimeter or more on the map.

5. We have always restricted our use of apparent to marsh, mangrove or swamp areas. Where the shoreline is on solid ground, we have always mapped it a standard shoreline even though it might be obscured by overhanging limbs of trees. I think we must compile this shoreline in accord with our usual practices. But I don't think this calls for any additional field work. The compilers can take care of this in the office.
6. If you have any questions on my interpretation of the field notes, please write to me.

[signed] L. W. Swanson

L. W. Swanson, Chief
Photogrammetry Division
PHOTOGRA M ETRIC PLOT REPORT
Back River, S. C. PH-5801, Scale 1:10,000
December 1958

21. Area Covered

This plot covers 3 sheets, T-10820, thru T-10822 and lies between 32° 56' 15" - 33° 07' 30" and 79° 55' 00" 80° 00' 00" in the area north of Charleston, South Carolina.

22. Method

The photogrammetric plot consisted of two strips, (STRIP 35 58-L-3625 thru 3636) and (STRIP 36 58-S-3092 thru 3103). The two strips were bridged on the stereoplotigraph and tied together by common triangulation and pass points. This gave complete coverage of the three map manuscripts.

23. Adequacy of Control

The control provided complied with the project instructions and was adequate. Two control stations SS GOOSE (USE) 1933 and KIL 1934 RM #1 were found to be in error and were not used in either bridge.

The sub station for GOOSE (USE) 1933 was a very sharp point in STRIP 36 but could not be held in the bridge by approximately 30 feet in both X and Y. It is believed that a bad azimuth could have been recorded in the field due to the numerous Tanks in the area of Port Terminal Tank 1933, which was used as the azimuth station. SS GOOSE could not be seen on STRIP 35 due to sun glare.

Station KIL 1934, RM #1 could not be held in either bridge and due to the questionable description the station was eliminated from both strips.

Station BRIDGE 1928, 1932, RM #2 could not be seen clearly on the S photography due to sun glare and was not used in the adjustment of STRIP 35.

24. Supplemental Data

None
25. Photography

The photography for this project was adequate as to coverage, overlap and quality of diapositives. The infra-red (L) photography showed excellent definition of water areas and shoreline detail. However, inland areas showed very poor definition, especially in culture areas. The panchromatic (S) photography was very sharp in inland areas but poor along the shoreline.

John D. Perrow, Jr.

Approved

Morton Keller

Morton Keller
PH-5801
BACK RIVER, S.C.

1. BK 3, 1935 (SCGS)
2. L 11WS, 1935 (USGS)
3. Bridge RM#2, 1932
4. Tees, 1928
5. BK 54, 1935 (SCGS)
6. Kil, RM#1, 1934
7. Dig, 1934
8. Piq, 1934
9. Big, 1928
10. Foster, 1928
11. BK 60, 1935 (SCGS)
12. Port Terminal Tank, 1933
13. Goose, 1933 (USE)

\[\text{S} = \text{Stations Held} \]
\[\text{S} = \text{Stations Held only in Strip #36} \]
\[\text{S} = \text{Stations Not Held} \]
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<td>P.C.</td>
<td>23.22 966.55</td>
<td>708 941.71</td>
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<td>BUSHY, 1928</td>
<td>P-16</td>
<td>23.31 916.73</td>
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<td>127 070.77</td>
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<td>P.C.</td>
<td>23.26 626.26</td>
<td>709 157.10</td>
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<td>P-16</td>
<td>23.28 213.37</td>
<td>709 640.86</td>
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</table>
31. **DELINEATION**
   
   The Kelsh Plotter was used.

32. **CONTROL**

   The placement and adequacy of primary and secondary control were satisfactory.

33. **SUPPLEMENTAL DATA**

   None

34. **CONTOURS AND DRAINAGE**

   Contours are inapplicable. Drainage was obvious on the photographs and verified by the field inspector.

35. **SHORELINE AND ALONGSHORE DETAILS**

   The only difficulty encountered was in delineating the apparent shoreline in some of the marsh. The mean low-water line shown is from office interpretation of photographs.

36. **OFFSHORE DETAILS**

   No problems were encountered.

37. **LANDMARKS AND AIDS**

   There are no landmarks.

   Form 567 is being submitted for one aid to navigation.
38. **CONTROL FOR FUTURE SURVEYS**

One topographic station, ABLE 1958, was established and is listed under item 49.

39. **JUNCTIONS**

The junction with T-10821 on the north is in agreement.

Corps of Engineers, U. S. Army, LADSON S. C. quadrangle, 1:24,000 scale, published in 1943 is to the west. Comparison reveals a number of changes in alignment of secondary roads, probably due to development of the U. S. Naval Reservation. Features of a more permanent nature such as a railroad and streams appear to be in satisfactory agreement.

Corps of Engineers, quadrangle MELGROVE, 1:24,000, is to the south and east. The junction is satisfactory. This map lies in the northwest part of the MELGROVE quadrangle.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

41. **BOUNDARIES**

Boundaries of the U. S. Naval Reservation have been shown as identified on the field photographs. Refer to item 10.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with C. of E. quadrangle MELGROVE 1943, 1:24,000, and C&GS Air Photo Compilations T-5161 and T-5173 compiled in 1933 at 1:20,000 scale. There are many man-made changes due to development of the area by the U. S. Navy; otherwise comparison is satisfactory.

47. **COMPARISON WITH NAUTICAL CHARTS**

Chart No. 680, scale 1:20,000, edition of 1942, corrected to May 26, 1952 was compared. Generally the shoreline is the same but the interior man-made features are not up-to-date. The manuscript should supersede the land details on the chart.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

E. T. Ogilby
Cartographer (Photogrammetry)

APPROVED & FORWARDED

Arthur L. Wardwell
Chief of Party
48. **GEOGRAPHIC NAMES LIST**

Back River
Back Slack Reach
Big Island (2)
Cooper River
Foster Creek
Goose Creek
Logan Pond
New Tenant Pond
Old Goose Creek
Red Bank Landing
Slack Reach
Snow Point
South Carolina
Wilson Pond

[Signature]

Geographic Names Section
10 August 1961
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

I. I. Saperstein

<table>
<thead>
<tr>
<th>STATE</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>COOPER RIVER</td>
<td>Red pointer on pile</td>
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<tr>
<td></td>
<td>32 58 11.23 79 55 805</td>
</tr>
</tbody>
</table>
I recommend that the following objects which have 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

George E. Varnadoe

<table>
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<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>COOPER RIVER</td>
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</tr>
<tr>
<td>DAILYAC</td>
<td>Does not exist</td>
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</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redeetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.
49. NOTES FOR THE HYDROGRAPHER

One topographic station was established:

ABLE, 1958
PHOTOGRAMMETRIC OFFICE REVIEW


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines WHS 32. Public land lines XX

MISCELLANEOUS

Reviewer
William H. Shearouse

Supervisor, Review Section or Unit
Milton M. Slavney

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:
62. Comparison with Registered Topographic Surveys

| T-4434 | 1:10,000 | 1928 |
| T-4435 | 1:10,000 | 1928 |
| T-4515 | 1:5,000  | 1934 |
| T-5161 | 1:20,000 | 1934 |
| T-5172 | 1:10,000 | 1934 |
| T-5173 | 1:10,000 | 1934 |

Except for the construction of an earth dam across Back River one-half mile above the point where it empties into Cooper River, there has been little change concerning the two mentioned drainage features. There are numerous additional dams and roads inland and other cultural changes within the limits of the U.S. Naval Reservation (Liberty Hall) established since the last surveys of 1934; but few of these will affect nautical chart detail.

63. Comparison with Maps of Other Agencies

KITTREDGE, S. C., 1:24,000, Ed. of 1950, U.S. Geological Survey
NORTH CHARLESTON, S. C., 1:24,000, Ed. of 1959, U. S. Geological Survey

There is good agreement between these surveys.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts

680 1:20,000 Revised to 61 2/13

The main drainage features are in good agreement. However, some nearby cultural features may be considered for application prior to reprinting of chart 680.

66. Adequacy of Results and Future Surveys

Subject surveys were compiled according to instructions. They are within the requirements of adequacy and accuracy.
### Record of Application to Charts

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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.