10683 10684

10684 10683

Diag. Cht. No. 1239-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5701 Office No. T-10683 and T-10684

LOCALITY

State South Carolina

General locality Charleston County and Ashley River

Locality Keivling Creek to Brickyard Creek and Duck Island

19 57

CHIEF OF PARTY

L.W.Swanson, Div. Of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE September 10, 1962

USCOMM-DC 5087

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT - DATA RECORD

## T- 10683 & 10684

Project No. (II): Ph-5701 Quadrangle Name (IV):

Field Office (II): Charleston, S.C. Chief of Party:

Photogrammetric Office (III): Washington, D.C. Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 23 August 1957 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Stereoplanigraph and Kelsh plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):
Stereoplanigraph - 1:15,000
Kelsh - 1:5,000

Scale Factor (III): None

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

Applied to Chart No. Date: Date registered (IV): 7 Aug 1961

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

Geographic Datum (III): N. A. 1927

Vertical Datum (III):
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): DAVE, 1933

Lat.: Long.: Adjusted
Unadjusted

Plane Coordinates (IV): State: S.Carolina Zone: South

Y= 366,923.20 X= 2,304,607.37

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

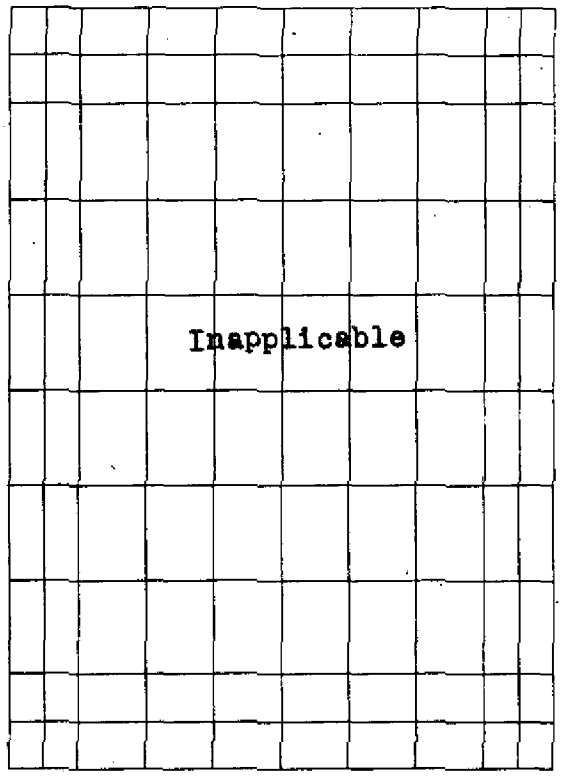
When entering names of personnel on this record give the surname and initials, not initials only.

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)

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

3

# DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Joseph K. Wilson
Sup. Photo Engineer — Date: September 1957

Planetable contouring by (II): Inapplicable — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location):
Date of photography - 8-21-57

Projection and Grids ruled by (IV): J. R. Haskins — Date: 8-27-57

Projection and Grids checked by (IV): J. B. Phillips — Date: 8-27-57

Control plotted by (III): R. R. Hartley — Date: 9-20-57

Control checked by (III): M. Keller, R. Hartley — Date: 9-20-57

Radial Plot or Stereoscopic
Control extension by (III): Hartley — Date:

Stereoscopic Instrument compilation (III):
Planimetry: R. R. Hartley, W. A. Kuncis — Date: Sept-Oct 1957
Contours — Date:

Manuscript delineated by (III): V. E. Winans, R. R. Hartley — Date: Oct. 1957

Photogrammetric Office Review by (III): K. Maki M. Keller — Date: Oct. 1957

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 "W" Camera - 6" focal length

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide |
|---|---|---|---|---|
| 57-W-6410-6415 | 8/21/57 | 1010 | 1:25,000 | 0.1 above MLW |
| 57-W-6419-6420 | 8/21/57 | 1015 | 1:25,000 | 0.2 above MLW |

Tide (III)

| | Ratio of Ranges | Mean Range | Spring Range |
|---|---|---|---|
| Reference Station: Charleston, S. Carolina | | 5.1 | 6.0 |
| Subordinate Station: Highway Bridge (2 miles above) | 1.1 | 5.5 | 6.5 |
| Subordinate Station: Bees Ferry Bridge | 1.1 | 5.5 | 6.5 |

Washington Office Review by (IV): J. Streffler Date: Nov. 1960

Final Drafting by (IV): J. Hicks, J. Frazier Date: 6-26-61, 6-7-61

Drafting verified for reproduction by (IV): Wm. O. Hallein Date: 7-7-61

Proof Edit by (IV): J. Streffler Date: July 31, 1961

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

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 42 Recovered: 16 Identified: 17

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

*Number of Recoverable Photo Stations established* (III): 0

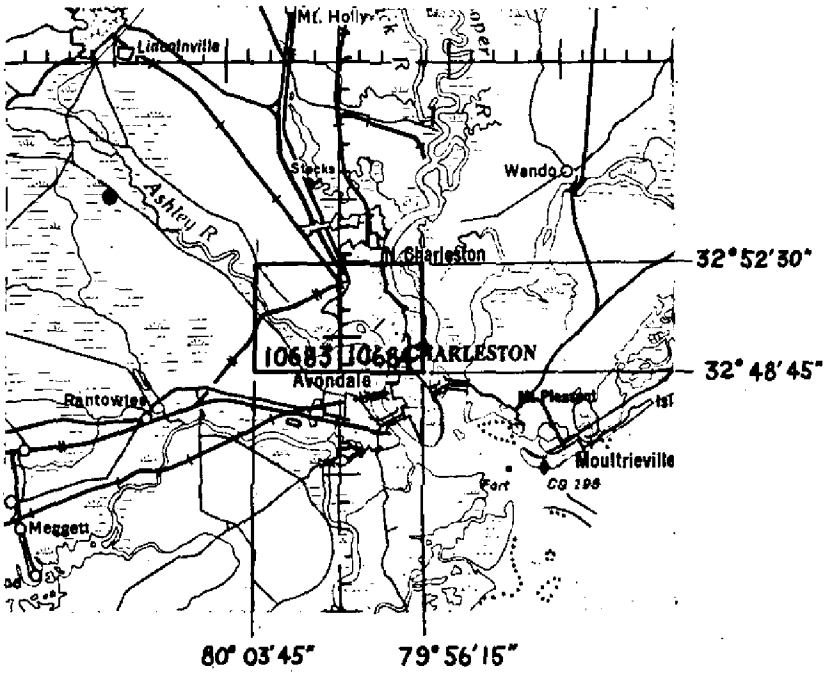
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

COMM-DC-57842

# PLANIMETRIC MAPPING PROJECT 5701

## Ashley River, South Carolina




OFFICIAL MILEAGE FOR COST ACCOUNTS

| | AREA SQ. MI. | LIN. MI. SHORELINE |
|---|---|---|
| T-10683 | 15 | 19 |
| T-10684 | 12 | 11 |
| TOTAL | 27 | 30 |

# SUMMARY
# TO ACCOMPANY
# SHORELINE MAP MANUSCRIPTS
# T-10683 and T-10684

Subject surveys (2) represent Project PH-5701. They are shoreline surveys of a portion of ASHLEY RIVER.in the vicinity of Charleston, South Carolina.

They were compiled at the Washington Office by Stereoplanigraph and Kelsh Plotter in Sept-Oct 1957, and are based on single-lens photography of Aug. 21, 1957 and field inspection of September 1957. Advanced shoreline information and control was made available in support of hydrographic survey H-8410.

The two map manuscripts will be duly scribed for the reproduction of adequate permanent file copies.

Cronar film positives at the compilation scale of 1:10,000 and the combined Descriptive Report will be registered and filed in the Bureau Archives.

January 1961

FIELD INSPECTION REPORT
Project Ph-5701
T-10683 and T-10684
South Carolina

## 2. AREAL FIELD INSPECTION

This report is submitted for two 3-3/4 minute ~~planimetric maps~~ shoreline surveys. The maps cover a survey centered around the north portion of Charleston, which include a part of the Ashley ~~and Cooper~~ Rivers.

In accordance with Instructions, the work was limited to only those phases required to provide shoreline and control for hydrography.

Map T-10683 is a sparsely settled section through which the Ashley River flows. There have been few changes in this area for many years.

Map T-10684 covers a great part of the industrial portion of North Charleston. ~~Both~~ the Ashley ~~and Cooper~~ Rivers ~~are~~ is included in this area.

The 1957 photographs were of fair quality and most features were easily interpreted.

## 3. HORIZONTAL CONTROL

The recovery of horizontal control was limited to only those specific stations for identification purposes as indicated on the special horizontal control diagram furnished by the Washington Office.

During the course of the field work, it was found that the field inspector could not recover and identify all control as indicated on the special control diagram. The writer contacted the Chief, Operations Branch and the control requirements were revised to fit existing conditions.

None of the South Carolina Geodetic Survey stations could be recovered. Other stations, located nearby along the Ashley River, were recovered and identified in their place.

The following stations are reported on form 526 as "destroyed", "lost", or"not recovered":

CEDAR,1933
CHARLESTON NAVY YARD NORTH RADIO TOWER, 1932
CHARLESTON NAVY YARD SOUTH RADIO TOWER, 1933
JENKINS, 1933
NAVY YARD OIL TANK, 1933
OAK, 1889
R.P. 2C(USE), 1933
R.P. 3C(USE), 1933
TOWER BEACON, 1933
TOWER(USE), 1933
CT 754(S.C. GEOD. SUR.) through CT 765
CT 851(S.C. GEOD. SUR.) through CT 854

Two stations, which were identified for control and have been listed in the above paragraph as not found, are OAK, 1889 and CEDAR, 1933. Station CEDAR, 1933 is destroyed. R.M. 2 was recovered and the lower portion of the monument at R.M. 1 was believed recovered, therefore the identification of this station has been shown as doubtful. Station OAK, 1889 was not actually recovered. The old stand was found with its legs intact and also a reference tree. The identification has been shown as doubtful, however it is felt that the point occupied is within a few inches of the true position.

No supplemental control was established.

There were no stations recovered, which were established by other agencies.

## 4. VERTICAL CONTROL

There were no tidal bench marks recovered.

## 5. CONTOURING AND DRAINAGE

The contouring is inapplicable.

No attempt was made to delineate the drainage at this time.

## 6. WOODLAND COVER

The woodland cover, along the rivers, has been classified in accordance with the Topographic Manual.

## 7. SHORELINE AND ALONGSHORE FEATURES

Most of the shoreline along the Ashley ~~and Cooper~~ Rivers is apparent. The mean high-water line was determined from visual inspection.

The approximate low-water line has been shown in many places, especially since the photographs were flown near the stage of low-water.

The foreshore is composed of mud and shell. There are no steep bluffs or cliffs.

Three submerged cables(one power, one communication and one pipe line) have been shown on the photographs

8. OFFSHORE FEATURES

Several piling, wrecks and dolphins have been shown in both the Ashley and Cooper Rivers. No other offshore features were noted.

9. LANDMARKS AND AIDS

A thorough inspection of landmarks for nautical charts was made. Several previously charted landmarks have been razed and are recommended for deletion. Several new landmarks are recommended for charting. Form 567 is submitted for each.

All fixed aids to navigation were identified by the direct method on the 1:10,000 scale photographs. One form M-2226-12 is submitted for Ashley River Daybeacon 24, as it was very difficult to identify on the photograph. Form 567 is submitted for each aid.

There are no aeronautical aids or interior landmarks recommended.

10. BOUNDARIES, MONUMENTS AND LINES

In accordance with my telephone conversation with the Chief, Operations Branch, no attempt has been made to show the boundaries. However, a map of Charleston and the Charleston Naval Shipyard are enclosed with the data for these maps.

11. OTHER CONTROL

There were no topographic stations or photo-hydro control established.

12. OTHER INTERIOR FEATURES

The clearances of two bridges, crossing the Ashley River, have been shown. The Ashley River Bridge on South Carolina State Highway 7 is a new fixed bridge. The clearances measured are: horizontal clearance 118.0 feet, vertical clearance 50.0 feet. It was measured as 56.0 feet vertical clearance at 2:30 P.M. EST on 9-7-57. The clearances for the Atlantic Coast Line Railroad bascule bridge on the Ashley river are: horizontal clearance 60.0 feet, vertical clearance of 3.5 feet. It was measured as 8.2 feet at 12:10 P.M. EST on 9-7-57. The bridge book shows a horizontal clearance of 60.0 feet and a vertical clearance of 2.8 feet.

The vertical clearance of the overhead power cable at the Atlantic Coast Line Railroad is 60.0 feet. It was measured from

ground elevations and not from the tide. It is to be noted that this is a new power line crossing and not the same clearance as shown on chart 1239. The old power line has been abandoned.

The field inspection of roads, houses and cultural features was done only along the shoreline in accordance with Project Instructions.

## 13. GEOGRAPHIC NAMES

There were no name discrepancies noted during field operations. An investigation was not made in accordance with Project Instructions.

## 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Two maps of Charleston and Charleston Naval Shipyards are submitted to assist in the compilation.

Transmittal of original form 526 to Division of Geodesy will be done at a later date.

Submitted by:
19 September 1957
Joseph K. Wilson
Joseph K. Wilson
Sup. Photo Engineer

PHOTOGRAMMETRIC PLOT REPORT
T-10683 & T-10684 PH-5701
Ashley River, South Carolina
Scale 1:16,000

GENERAL

A stereobridge was run on this project in order to verify the positions of navigational aids and map detail previously established by setting individual models to control on the stereoplanigraph and Kelsh plotters. Refer to item No. 31 of the Compilation Report. The results of the stereobridge showed close agreement with the original plot along the shoreline areas. Differences up to approximately 1.0mm occurred in the interior east and southwest areas of T-10684. No differences occurred between positions on T-10683 and the corresponding stereobridge located positions.

22. METHOD

One stereobridge consisting of six models, 57W-6410 thru 6416, and one, consisting of two models 57W-6423 thru 6425 was run. The first bridge was adjusted by IBM methods and the second bridge was computed on a straight line adjustment.

23. ADEQUACY OF CONTROL

Horizontal control was adequate. All triangulation stations were held with the exception of SS Cedar, R. M. 2 which fell 0.6mm to the northeast of the plotted position. Recovery for this station was doubtful, as stated by the field man, due to destruction of R. M. 1.

24. SUPPLEMENTAL DATA

None

25. PHOTOGRAPHY

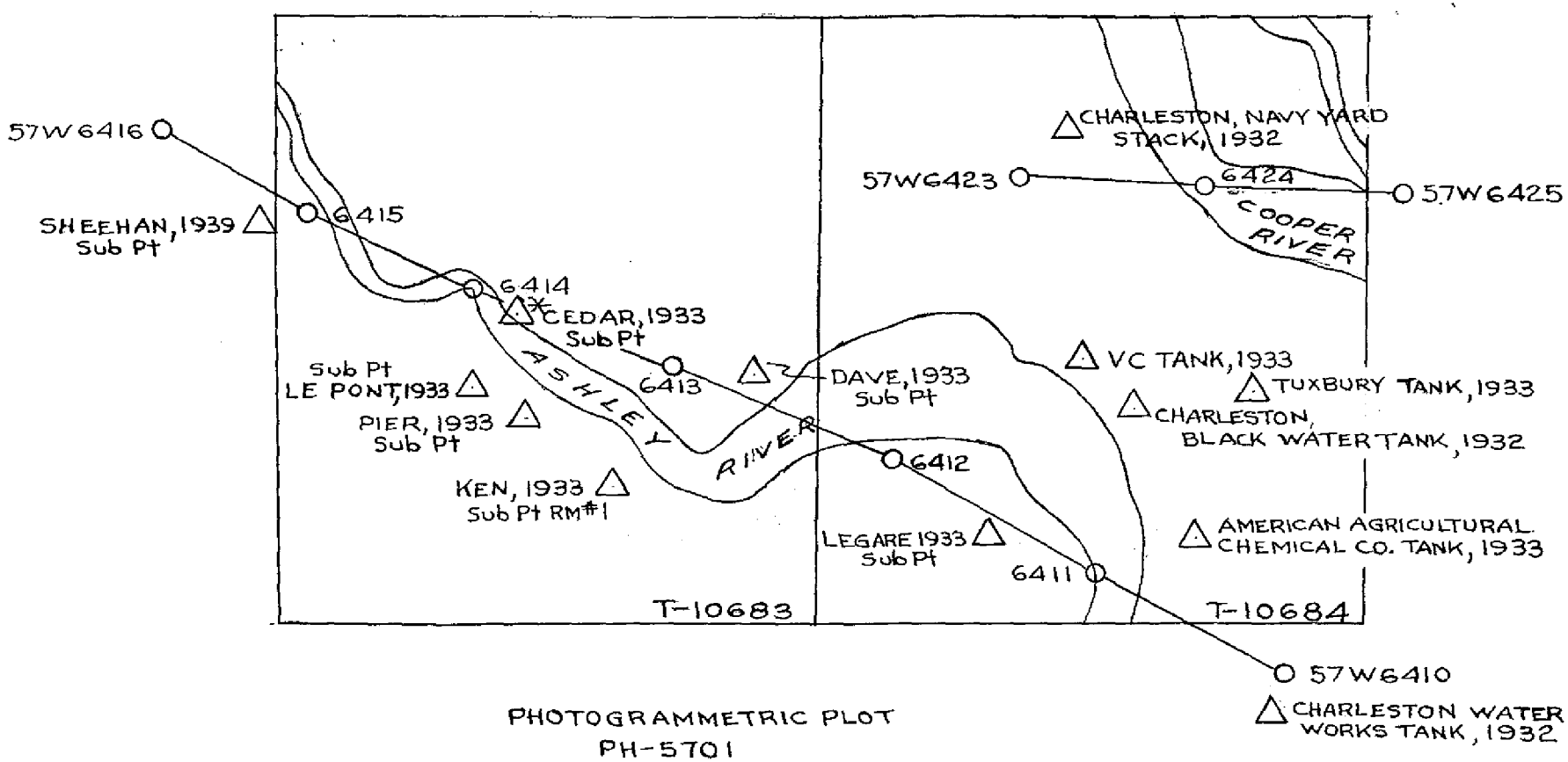
Photography was adequate.

Submitted

George Ball
Cartographer (Photo)

Approved

Morton Keller
Morton Keller
Supervisory Cartographer
(Photo)




PHOTOGRAMMETRIC PLOT
PH-5701
ASHLEY RIVER, S.C.
SCALE 1:10,000

All triangulation field identified
* - △ not held in stereobridge

APRIL, 1958

Photogrammetry

MAP T. 10683-10684 PROJECT NO. 5701 SCALE OF MAP 1:10,000 SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | ~~LATITUDE~~ OR X-COORDINATE ~~LONGITUDE~~ OR Y-COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD | (BACK) | DATUM CORRECTION | 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| Legare, 1933 | Pg 37 203-71 | N.A. 1927 | 2 313 237.95 | 3238 | 1762 | | | | 10684 | |
| | | | 360 969.43 | 969 | 4031 | | | | | |
| S S Legare | | " | 2 313 132.44 | 3132 | 1868 | | | | 10684 | |
| | | | 361 011.52 | 1012 | 3988 | | | | | |
| Charleston, Water works Tank, 1932 | Pg 36 203-132 | " | 2 324 974.02 | 4974 | 026 | | | | 10684 | |
| | | | 353 913.68 | 3914 | 1086 | | | | | |
| Charleston, Navy Yard Stack, 1932 | Pg 23 N.D. | " | 2 316 554.35 | 1554 | 3446 | | | | 10684 | |
| | | | 375 728.39 | 728 | 4272 | | | | | |
| Amer. Agricultural Chem. Co. Tank, 1933 | Pg37 203-98 | " | 2 320 633.88 | 634 | 4366 | | | | 10684 | |
| | | | 361 000.53 | 1001 | 3999 | | | | | |
| Tuxbury Tank, 1933 | Pg 37 203-91 | " | 2 322 412.69 | 2413 | 2587 | | | | 10684 | |
| | | | 366 450.96 | 1451 | 3549 | | | | | |
| V C Tank, 1933 | Pg 37 203-82 | " | 2 316 438.93 | 1439 | 3561 | | | | 10684 | |
| | | | 367 716.77 | 2717 | 2283 | | | | | |
| Charleston, Black Water Tank, 1932 | Pg 22 N.D. | " | 2 318 228.69 | 3229 | 1771 | | | | 10684 | |
| | | | 365 902.14 | 902 | 4098 | | | | | |

1 FT. = .3048006 METER

COMPUTED BY: C. Theurer, R. Hartley DATE 9/19/57

CHECKED BY: M. Keller, C. Theurer DATE 9/19/57

M-2388

Photogrammetry

MAP T- 10683-10684 PROJECT NO. 5701 SCALE OF MAP 1:10,000 SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | ~~LATITUDE OR~~ X / ~~LONGITUDE OR~~ Y COORDINATE | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD | (BACK) | DATUM CORRECTION | 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| Sheehan, 1933 | Pg 38 203-94 | N.A. 1927 | 2 287 226.19 | 2226 | 2774 | | | | 10683 | |
| | | | 372 442.68 | 2443 | 2557 | | | | | |
| S S Sheehan | | " | 2 287 013.86 | 2014 | 2986 | | | | 10683 | |
| | | | 372 348.45 | 2348 | 2652 | | | | | |
| Shark, 1933 | Pg 38 203-79 | " | 2 287 916.91 | 2917 | 2083 | | | | 10683 | |
| | | | 377 879.71 | 2880 | 2120 | | | | | |
| S S Shark | | " | 2 287 904.52 | 2905 | 2095 | | | | 10683 | |
| | | | 377 945.04 | 2945 | 2055 | | | | | |
| Pier, 1933 | Pg 38 203-100 | " | 2 296 765.47 | 1765 | 3235 | | | | 10683 | |
| | | | 365 352.44 | 352 | 4648 | | | | | |
| S S Pier | | " | 2 296 664.44 | 1664 | 3336 | | | | 10683 | |
| | | | 365 323.47 | 323 | 4677 | | | | | |
| Cedar, 1933 | Pg 38 203-67 | " | 2 296 217.08 | 1217 | 3783 | | | | 10683 | |
| | | | 369 344.70 | 4345 | 655 | | | | | |
| Cedar RM #2 | | " | 2 296 286.52 | 1287 | 3713 | | | | 10683 | |
| | | | 369 361.64 | 4362 | 638 | | | | | |
| S S Cedar RM #2 | | " | 2 296 193.93 | 1194 | 3806 | | | | 10683 | |
| | | | 369 471.01 | 4471 | 529 | | | | | |
| Dave, 1933 | Pg 37 203-65 | " | 2 304 607.37 | 4607 | 393 | | | | 10683 | |
| | | | 366 923.20 | 1923 | 3077 | | | | | |
| S S Dave | | " | 2 304 596.00 | 4596 | 404 | | | | 10683 | |
| | | | 366 909.38 | 1909 | 3091 | | | | | |

1 FT. = .3048006 METER

COMPUTED BY: C. Theurer, R. Hartley DATE 9/19/57

CHECKED BY: M. Keller, C. Theurer DATE 9/19/57

M-2388-12

Photogrammetry

MAP T- 10683-10684 PROJECT NO. 5701 SCALE OF MAP 1:10,000 SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | ~~LATITUDE~~ OR X-COORDINATE ~~LONGITUDE~~ OR Y-COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD | (BACK) | DATUM CORRECTION | N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD | (BACK) | Manuscript T- ~~FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD~~ | ~~(BACK)~~ |
|---|---|---|---|---|---|---|---|---|---|---|
| Oak, 1889 | Pg 37 203-148 | N.A. 1927 | 2 328 081.43 | 3081 | 1919 | | | | 10684 | |
| | | | 373 814.93 | 3815 | 1185 | | | | | |
| S S Oak | | " | 2 328 066.13 | 3066 | 1934 | | | | 10684 | |
| | | | 373 782.45 | 3782 | 1218 | | | | | |
| Fest, 1933 | Pg 38 203-69 | " | 2 289 915.05 | 4915 | 85 | | | | 10683 | |
| | | | 374 348.31 | 4348 | 652 | | | | | |
| S S Fest | | " | 2 289 963.78 | 4964 | 36 | | | | 10683 | |
| | | | 374 414.26 | 4414 | 586 | | | | | |
| Le Pont, 1933 | Pg 38 203-96 | " | 2 294 869.80 | 4870 | 130 | | | | 10683 | |
| | | | 366 553.21 | 1553 | 3447 | | | | | |
| S S Le Pont | | " | 2 294 921.56 | 4922 | 78 | | | | 10683 | |
| | | | 366 451.86 | 1452 | 3548 | | | | | |
| Ken, 1933 | Pg 37 203-71 | " | 2 299 957.98 | 4958 | 42 | | | | 10683 | |
| | | | 362 715.45 | 2715 | 2285 | | | | | |
| Ken R M #1 | | " | 2 299 972.39 | 4972 | 28 | | | | 10683 | |
| | | | 362 658.70 | 2659 | 2341 | | | | | |
| S S Ken R M #1 | | " | 2 299 849.89 | 4850 | 150 | | | | 10683 | |
| | | | 362 560.51 | 2561 | 2439 | | | | | |
| Citadel, 1932-33 | Pg 12 203-4,175 | " | 2 318 783.97 | 3784 | 1216 | | | | 10684 | |
| | | | 352 018.53 | 2019 | 2981 | | | | | |
| S S Citadel | | " | 2 318 799.46 | 3799 | 1201 | | | | 10684 | |
| | | | 352 226.86 | 2227 | 2773 | | | | | |

1 FT. = .3048006 METER

COMPUTED BY: C. Theurer, R. Hartley DATE 9/19/57

CHECKED BY: M. Keller, C. Theurer DATE 9/19/57

M-2388-12

Compilation Report T-10683 and T-10684

31. Delineation:

Delineation was done using the stereoplanigraph and Kelsh plotter. Model 6410-6411 was set on the stereoplanigraph, and after detailing, pass points were dropped to help control models on both sides. Model 6411-6412 was also delineated on the stereoplanigraph. The remainder of the delineation was done on the Kelsh plotter. Because of the sun reflection on model 6415-6416, the model 6419-6420 was used instead.

Only the immediate shoreline of Ashley River was delineated.

A discrepancy overlay has been submitted for questionable areas.

32. Control:

Control was adequate and all stations held with the exception of Sub. Pt. CEDAR RM2, 1935. Field identification of this station was doubtful (see field report). The field identified point fell 0.9 mm. to the northeast of the plotted position.

33. Supplemental Data:

U. S. G. S. quads Charleston, South Carolina, and Johns Island, South Carolina, scale 1:24,000 edition of 1948 were used for leveling.

34. Contours and Drainage:

Inapplicable.

35. Shoreline and Alongshore Details:

A mud line rather than the field identified low water line has been shown. The photographs were taken at 1.0 foot above low water and the edge of mud was a clearly defined line. Field inspection of the low water line was very spotty and those areas appeared, in the instruments, to be covered by water.

Except for the above, and items mentioned on discrepancy overlay, the shoreline inspection was adequate.

36. Offshore Details:

No comment.

37. Landmarks and Aids:

The positions of all the daybeacons were located in the stereoplanigraph based on the field identified positions with the following exceptions. Daybeacons 19 and 31 were not visible in the stereoplanigraph and were pricked on the manuscripts directly from the field photos after orienting the photos to the shoreline pass points. The office position of Daybeacon 22 differs from that as pricked by the field party. Daybeacon 29 was not field identified and has not been shown. These have been noted on the discrepancy overlay. *Form 567 has not been received from the field.

*Form 567 has been completed and submitted to the Nautical Chart Branch April,1958. The positions of Daybn 19 and 22 is not in agreement with that of hydrographic surveys. Hydrographic survey positions accepted as they have been verified by check angles and sdg, lines were developed normally. Photo identification may be in error or aids may have been moved since date of photography. K.H.M.

38. Control for Future Surveys:

Shoreline pass points have been located to be used by field party in selecting hydro stations.

39. Junctions:

T-10683 is to the east of T-10683 and there are no other contemporary surveys.

40. Horizontal and Vertical Accuracy:

No comment.

46. Comparison with Existing Maps:

No comparisons has been made at this time.

47. Comparison with Nautical Charts:

No comparisons have been made at this time.

48. See Geographic Names list, a part of this report.

Submitted 11 October, 1957
Ruth R. Hartley
Ruth Hartley

Approved:
Morton Keller
Morton Keller
Supervisory Cartographer

SUPPLEMENT TO COMPILATION REPORT
T-10683 and T-10684

Map T-10684 was redelineated due to shifts in datum as indicated by the results of the stereobridge. Position of shoreline detail on the recompilation remained practically on the same datum, shifting only about 0.1 or 0.2mm. Detail in the southwest area of T-10684 shifted about 0.5-1.0mm.

Hydrographic surveys were not affected to any great extent by these shifts in datum, with the exception of several random aids, since changes in position were restricted to interior detail. However, the new compilation should be used for the smooth plotting operation.

Positions of all aids to navigation and landmarks were derived as part of the bridging computation process and were submitted to the Nautical Chart Branch on Form No. 567. A copy of Form 567 is included in this Descriptive Report.

Submitted

K. N. Maki

K. N. Maki
Supervisory Cartographer
(Photo)

Form 567
April 1945

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Charleston, South Carolina 9 September 1957

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 Matthew A. Stewart

Joseph K. Wilson
*Chief of Party.*

STATE: South Carolina

| CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION LATITUDE* ° ′ | LATITUDE* ″ D.M. METERS | LONGITUDE* ° ′ | LONGITUDE* ″ D.P. METERS | DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x 1104 | Ashley River Daybeacon 10 | | 32 48.1 | 656.8 | 79 58.2 | 370.7 | N.A. 1927 | Photo 10684 | 1957 | | x | | 470 |
| x 1105 | Ashley River Daybeacon 16 | | 32 49.7 | 1240.6 | 79 57.9 | 1425.5 | " | " | " | | x | | 470 |
| x | Ashley River Daybeacon 17 | | 32 49.9 | 1568.6 | 79 58.1 | 191.6 | " | " | " | | x | | 470 |
| x 1208 | Ashley River Daybeacon 18 | | 32 50.0 | 30.2 | 79 58.8 | 242.4 | " | " | " | | x | | 470 |
| x 1209 | Ashley River Daybeacon 19 * | | 32 ~~50~~ 49.1 | 1759.9 | 79 58.3 | 364.3 | " | " | " | | x | | 470 |
| x | Ashley River Daybeacon 20 | | 32 50.8 | 409.0 | 79 58.1 | 851.2 | " | " | " | | x | | 470 |
| x 1211 | Ashley River Daybeacon 21 | | 32 50.3 | 166.8 | 79 58.5 | 873.0 | " | " | " | | x | | 470 |
| x 1212 | Ashley River Daybeacon 22 * | | 32 50.5 | 459.9 | 79 58.8 | 1178.0 | " | " | " | | x | | 470 |
| x 1307 Photopt. | Ashley River Daybeacon 24 | | 32 50.8 | 347.3 | 79 59.7 | 1119.5 | " | " | " | | x | | 470 |
| — | Ashley River Daybeacon 26 | | 32 49.8 | 1635.6 | 80 00.1 | 544.2 | " | Photo 10683 | " | | x | | 470 |
| — | Ashley River Daybeacon 28 | | 32 49.7 | 1313.8 | 80 00.0 | 1076.0 | " | " | " | | x | | 470 |
| — | Ashley River Daybeacon 31 | | 32 50.3 | 616.5 | 80 02.0 | 52.9 | " | " | " | | x | | 1239 |
| x 1009 | Shipyard Creek Channel Light 2 | | 32 49.8 | 1468.0 | 79 56.3 | 251.9 | " | Photo 10684 | " | | x | | 470 |
| x 1010 | Shipyard Creek Channel Light 4 | | 32 49.9 | 1516.0 | 79 56.1 | 567.5 | " | " | " | | x | | 470 |

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.

* TABULATE SECONDS AND METERS

* See note under item 37, Compilation Report.

Comm-DC 61327

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

Charleston, South Carolina 9 September, 1957

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 Matthew A. Stewart

Joseph K. Wilson
*Chief of Party.*

STATE: South Carolina

| CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION LATITUDE* ° ′ | LATITUDE* ″ D.M. METERS | LONGITUDE* ° ′ | LONGITUDE* ″ D.P. METERS | DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1011 | Shipyard Creek Channel Light 6 | | 32 50. | 144.3 | 79 56. | 878.9 | N.A. 1927 | Photo 10684 | 1957 | | X | | 470 |
| 1012 | Shipyard Creek Channel Light 8 | | 32 50. | 624.8 | 79 56. | 1183.7 | " | " | " | | X | | 470 |
| 2 | Cooper River Light 52 | | 32 51. | 1139.0 | 79 57. | 391.1 | " | " | " | | X | | 470 |

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.

* TABULATE SECONDS AND METERS

M-2836-3

20

Form 567
April 1945

# DEPARTMENT OF COMMERCE
## COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Charleston, South Carolina 9 September, 1957

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 K. Wilson
*Chief of Party.*

STATE: South Carolina

| | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION LATITUDE* ° ′ | LATITUDE* ″ D.N. METERS | LONGITUDE* ° ′ | LONGITUDE* ″ D.P. METERS | DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ×△ | TANK | (American Agr. Chem.Co. Tank, 1933)(ELEV) ht 150(160) ft. | | 32 49 | 506.1 | 79 57 | 535.3 | N.A. 1927 | Tri. | 1933 | | X<br>X | | 470<br>1239 |
| 004 | STACK | Esso-Standard Oil Co. Stack ht 170(180) ft. | | 32 49.~~3~~ | 591.7 | 79 56.~~1~~ | 1484.8 | " | Photo 10684 | 1957 | | X<br>X | | 470<br>1239 |
| 007 | TANK | (ELEV) Roster Fertilizer Co. Water Tank ht 150(160) ft. | | 32 49.~~7~~ | 1145.0 | 79 56.~~1~~ | 566.0 | " | " | " | | X<br>X | | 470<br>1239 |
| 008 | TANK | (ELEV) Stiwan Fertilizer Co. Water Tank ht 120(131) ft. | | 32 49.~~7~~ | 1175.4 | 79 56.~~1~~ | 837.3 | " | " | " | | X<br>X | | 470<br>1239 |
| 005 | STACK | North Street Lumber Co. Stack (easterly of two) ht 80(87)ft. | | 32 50.~~0~~ | 17.2 | 79 56.~~0~~ | 1029.0 | " | " | " | | X<br>X | | 470<br>1239 |
| 213 | STACK | Virginia-South Carolina Chem. Corp. Stack ht 130(138) ft. | | 32 ~~50.0~~ 49 | 1846.5 | 79 ~~56.3~~ 57 | 1515.0 | " | " | " | | X<br>X | | 470<br>1239 |
| ×△ | TANK | (ELEV)(Charleston Black Water Tank, 1932) ht 170(182) ft. | | 32 50 | 159.0 | 79 57 | 1306.5 | " | Tri. | 1932 | | X<br>X | | 470<br>1239 |
| ×△ | TANK | (ELEV)(Tuxbury Tank, 1933) ht 135(147) ft. | | 32 50 | 313.7 | 79 57 | 29.5 | " | " | 1933 | | X<br>X | | 470<br>1239 |
| ×△ | TANK | (ELEV) (V.C. Tank, 1933) ht 135(147) ft. | | 32 50 | 717.5 | 79 58 | 236.1 | " | " | 1933 | | X<br>X | | 470<br>1239 |
| 006 | STACK | Pittsburg Metallurgical Co. Stack ht 100(108) ft. | | 32 50.~~1~~ | 373.1 | 79 56.~~1~~ | 1418.8 | " | Photo 10684 | 1957 | | X<br>X | | 470<br>1239 |
| 106 | RADIO TOWER | S.C. Electric & Gas Co. Radio Tower ht 300(312) ft. | | 32 49.~~7~~ | 1275.0 | 79 57.~~1~~ | 1344.3 | " | " | " | | X<br>X | | 470<br>1239 |
| 214 | RADIO TOWER | T.V.A. Radio Tower(easterly of two) ht 420(425) ft. | | 32 49.~~5~~ | 633.4 | 79 58.~~0~~ | 1234.1 | " | " | " | | X<br>X | | 470<br>1239 |
| 215 | RADIO TOWER | T.V.A. Radio Tower(westerly of two) ht 200(212) ft. | | 32 49.~~3~~ | 647.8 | 79 58.~~1~~ | 1302.2 | " | " | " | | X<br>X | | 470<br>1239 |
| | RADIO TOWER | W.C.S.C. Radio Tower(easterly of three) ht 200(205) ft. | | 32 49.~~4~~ | 804.5 | 80 00.~~1~~ | 211.5 | " | " | " | | X<br>X | | 470<br>1239 |

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.

* TABULATE SECONDS AND METERS

Comm-DC 61327

21

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

Charleston, South Carolina 9 September, 1957

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 K. Wilson

*Chief of Party.*

STATE: South Carolina

| CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION LATITUDE ° ′ | LATITUDE ″ D.M. METERS | LONGITUDE ° ′ | LONGITUDE ″ D.P. METERS | DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RADIO TOWER | W.C.S.C. Radio Tower(center of three) ht 362(367) ft. | | 32 49.4 | 822.4 | 80 00.2 | 267.6 | N.A. 1927 | photo 10654 | 1957 | | X | X | 470 1239 |
| RADIO TOWER | W.C.S.C. Radio Tower(westerly of three) ht 200(205) ft. | | 32 49.4 | 838.2 | 80 00.2 | 326.6 | " | " | " | | X | X | 470 1239 |
| TANK | (WLMV) Charleston Rubber Co. Water Tank ht 110(135) ft. | | 32 50.7 | 1202.5 | 79 59.7 | 243.7 | " | " | " | | X | X | 470 1239 |
| STACK | Charleston Navy Yard Stack ht110(120) ft. | | 32 51.7 | 1384.7 | 79 58.1 | 245.2 | " | " | " | | X | X | 470 1239 |
| STACK | (Charleston Navy Yard Stack, 1932) ht 260(270) ft. | | 32 51 | 1310.0 | 79 58 | 227.0 | " | Tri. | 1932 | | X | X | 470 1239 |

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.

* TABULATE SECONDS AND METERS

M-2836-3

22

T-10683

48. GEOGRAPHIC NAME LIST

Ashley River
Atlantic Coast Line

Brickyard Creek
Bulls Creek

Church Creek
Cowhead Reach

Drayton

Keivling Creek

West Marsh Island

George M. Bell
GEOGRAPHIC NAMES SECTION
28 NOVEMBER 1960

T-10684

48. GEOGRAPHIC NAME LIST

Accabee Flats
Ashley River

Duck Island
Duck Island Channel

East Marsh Island

Orangegrove Creek

Sisters Rocks

George McBee
GEOGRAPHIC NAMES SECTION
28 NOVEMBER 1960

REVIEW REPORT OF
SHORELINE MAP MANUSCRIPTS T-10683 and T-10684
November 1960

62. Comparison with Registered Topographic Surveys:

| | | |
|---|---|---|
| T-1975 | 1:10,000 | 1890 |
| T-2164 | 1:10,000 | 1894 |
| T-2165 | 1:10,000 | 1894-95 |
| T-2166 | 1:10,000 | 1894 |
| T-2167 | 1:10,000 | 1894 |
| T-3854 | 1:20,000 | 1921 |
| T-5157 | 1:20,000 | 1934 |
| T-5176 | 1:10,000 | 1934 |
| T-5179 | 1:10,000 | 1934 |
| T-6069 | 1:10,000 | 1934 |
| T-6070 | 1:10,000 | 1934 |
| T-6071 | 1:10,000 | 1934 |

There are minor shoreline--but extensive culture--changes in subject area since the surveys of 1934. T-10683 and T-10684 are to supersede above-listed surveys of common area and detail for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

| | | | |
|---|---|---|---|
| CHARLESTON, S.C. | 1:24,000 | 1958 | U. S. Geological Sur. |
| JOHNS ISLAND, S.C. | 1:24,000 | 1958 | U.S. Geological Sur. |

The shoreline, shapes of island and the drainage patern adjacent to shore are more intricately detailed on subject surveys, than on the Geological Survey's topographic quadrangles as listed. Other features appear in good agreement

64. Comparison with Contemporary Hydrographic Surveys:

| | | |
|---|---|---|
| H-8410 | 1:10,000 | 1957 |

Advance shoreline information and control of subject surveys was furnished in support of hydrographic survey H-8410. With the exception of daybeacons No. 19 and No. 22, there is good agreement between these surveys. For clarification of the different positions of the two stated daybeacons see item No. 37 of the Compilation Report - page 17.

65. Comparison with Nautical Charts:

| | | |
|---|---|---|
| 470 | 1:20,000 | Revised to 5/16/60 |
| 1239 | 1:80,000 | " " 9/5/60 |

The different positions of day beacons No. 19 and No. 22 (as stated under item 64) are the only disagreements in this comparison.

66. Adequacy of Results and Future Surveys:

Subject surveys were compiled according to instructions and at the conclusion of the Washington Office Review appear accurate and adequate for the requirements of a shoreline survey.

Reviewed by:

Josef J. Streifler

Approved:

L. A. Linde
Chief, Review & Drafting Sect.
Photogrammetry Division

Marvin T. Paulson
Chief, Nautical Chart Division

J. E. Waugh 9/7/62
Chief, Photogrammetry Division

Max B. Pitts
Chief, Operations Division

# NAUTICAL CHARTS BRANCH

SURVEY NO. T-10683 & T-10684

## Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|---|---|---|---|
| 10/1/74 | 470 | J.L. Sherman | ~~Before~~ After Verification and Review Adequate |
| | | | 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-2169-1

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.