

4704

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Maryland

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. A 4704

LOCALITY:

Chesapeake Bay

Mouth of Wicomico River

Project #88

192 32

CHIEF OF PARTY:

E. H. Bernstein, H. & C. Engr.

DESCRIPTIVE REPORT

(To Accompany Topographic Sheet A.

Wicomico River Proj. 88

AUTHORITY

The work on this sheet was executed in accordance with Director's instructions dated August 17, 1931.

LIMITS

The area surveyed lies between Lats. $38^{\circ} 11'$ and $38^{\circ} 17'$ and Longs. $75^{\circ} 48'$ and $75^{\circ} 56'$ and extends eastward from Hall Pt. and the mouth of the Nanticoke river to Mt. Vernon wharf on the Wicomico River, including Monie and Ellis Bays and the mouth of the Wicomico River.

CONTROL

The positions given in "Triangulation in Maryland" Special Publication No. 114 were used for triangulation stations, Great Shoals Light House, Wind, Holland, Mt. Vernon, Church, Child, Creek, Jones, and Walnut. Approximate positions from preliminary computations of the current triangulation were used for triangulation stations Hall 2, Dame, Monie 2, Sandy 3, Ellis 2, Clara and Tall. The plotting of these stations should be rechecked and possibly the projection shifted when final results of the 1931-32 triangulation are available. *(This difference was only 5/10 meters, and was taken care of. EMB)*.

METHODS

Standard planetable methods of traverse, intersection, resection and three point fixes in accordance with the topographic manual were used throughout the sheet.

CLOSING ERRORS

Closing errors of all traverses were within the required limits. Adjustments were made proportionally between control points.

JUNCTION of SHEETS

At station Hall 2 the shoreline failed to agree with the former survey by about 80 meters. This section was continued on Sheet "F" to a closer junction with the old survey inside Haines Pt. The sand clay bluff at Hall Pt. is eroding very rapidly. During the storm of March 6, 1932, a survey signal with about 4 meters of bluff were washed out. Local residents report from 5 to 15 feet erosion per year.

The shoreline in the vicinity of station Nanti 2 has also eroded back from that shown on the previous survey. The erosion is very irregular so that the shoreline at several points checks with the old survey. The old station mark at station Nanti was found washed

out and laying on its side about 3 meters outside high water line.

On the wicomico River the junction of the adjacent sheet was checked to this sheet.

GENERAL DESCRIPTION

The greater part of the shoreline covered by this sheet with the exception of the section from Hall Pt. to Dames Quarter Creek and the section from $\frac{1}{2}$ mile east of Wingate Point to Mt. Vernon beach is marsh. The sections of sand beach are usually backed by low sand clay bluff from 2 to 10 feet high, all of which from Mt. Vernon veach westward show signs of consistant erosion. The small section of fast land southeast of station Nanti 2 has been eroded until stumps now extend 10 meters into the river. Along the section east of Nanticoke Pt. extending into Ellis Bay a ridge of sand has been thrown up along the edge of the marsh.

The edge of the marsh is usually vertical and composed of mud and matted grass roots. The outer edge along the water is usually higher and quite firm. The interior areas are boggy and traversed by numerous small streams and ponds. Coarse grass and rugged myrtle bushes cover the marshland.

The principal settled and cultivated sections are in the vicinity of Dames Quarter and Mt. Vernon. There are only occassional trappers and fishermen cabins on the marsh.

There is an old steamboat wharf at Mt. Vernon with a 60 ft. face. There are also three small oyster packing house piers a mile west of Mt. Vernon wharf, with 6 foot faces, used only by shallow draft fishing boats, and a similar small pier on the west side of Ellis Bay.

During the fishing season numerous fish trap stakes extend from shore to the edge of the channel. The more permanent fish traps and duck blinds are marked with red circles for hydrographic signals.

NEW NAMES

Well established local names.

- ✓Tangier Beach ✓
- ✓St. Peters Creek ✓
- ✓Cedar Creek ✓
- ✓Muddy Hole Creek ✓
- ✓Mt. Vernon Beach ✓
- ✓Shiles Creek ✓ (SMB)

F. R. Gossett
 F. R. Gossett
 Lieut. (j.g.) U.S.C. & G.S.
 Topographer.

APPROVED.

E. H. Bernstein
 E. H. Bernstein
 Lieut. U.S.C. & G.S.
 Chief of Party

Magnetic Meridians
 The declinatoire No. 192 used on sheets A, B, C, D, E, F and G apparently had a westerly deviation of about 28 minutes.
E. H. Bernstein
 Chief of Party.

REVIEW OF TOPOGRAPHIC SURVEY No. 4704

Title (Par. 56) *Mouth of Miconico River, Chesapeake Bay, Maryland*

Chief of Party *E.H. Bernstein* Surveyed by *F.R. Gossett* Inked by *F.R. Gossett*

Ship *Mikawa* Instructions dated *Aug. 17, 1931* Surveyed in *May 1932*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *all low land*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) ✓ *none submitted.*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are shown. (Par. 16c.) *None shown*
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in ~~aero-topography~~ relative to type of photographs, method of compilation and type of ground control.
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Filed with letter No 117/1933, No duplicate for Descriptive Report*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. ✓ (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

For aluminum backed sheets the tie triangulation would have been ample but the control could have been improved by additional intersection stations of 3rd order accuracy on this mountain's peak.

Reviewed in office by *R. J. Christman, Oct. 2nd 1933*

Examined and approved:

L. O. Robert
Chief, Section of Field Records

W. T. Populauer
Chief, Division of Charts

F. S. Borden
Chief, Section of Field Work

G. H. Hude
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4704

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. A

REGISTER NO. **4704**

State Maryland

General locality Chesapeake Bay

Locality Mouth of Wicomico River

Scale 1:10,000 Date of survey May, 1932, 192

Vessel.....

Chief of Party E. H. Bernstein

Surveyed by F. R. Gossett

Inked by F. R. G.

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated Aug., 17, 1931, 192

Remarks:.....