

4222

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Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: Virginia

11-5613

DESCRIPTIVE REPORT.

*Topographic* Sheet No. 4222

LOCALITY:

Potomac River - W. Side

Gunston Cove

1926

CHIEF OF PARTY:

F.L. Peacock

Original

DEPARTMENT OF COMMERCE  
U. S. COAST & GEODETIC SURVEY  
E. LESTER JONES, DIRECTOR

DESCRIPTIVE REPORT  
To Accompany  
TOPOGRAPHIC SHEET  
GUNSTON COVE  
POTOMAC RIVER  
Fairfax County, Virginia

U. S. C. & G. S. Launch MIKAWA  
Season 1926

FRED L. PEACOCK, H. & G. E., C. & G. S.  
Chief of Party

DESCRIPTIVE REPORT  
TO ACCOMPANY  
TOPOGRAPHIC SHEET  
of  
GUNSTON COVE  
FAIRFAX COUNTY, VIRGINIA

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LOCALITY :

The topography executed on this sheet consists of the shoreline bordering Gunston Cove, Fairfax County, Virginia (An Arm of the Potomac River ), and its approaches. It does not include the extremities of Pohick and Accotink Bays, two small bays at the head of Gunston Cove.

CONTROL:

The control consists of Third Order Triangulation established by this party. The triangulation stations occur at frequent intervals ( about one-half to one and one-half statute miles apart ).

PERSONNEL:-

The topography on this sheet was done by four Deck Officers, Mr. H. O. Westby, Mr. C. Le Fever, Mr. L. P. Sowles, and

Mr. R. L. Tellman, attached to the party for training, and with some field supervision and illustrative work by Mr. L. C. Wilder, Jr. H. & G. E.

METHODS:

The shoreline was surveyed principally by the traverse method altho three-point fixes and plane-table triangulation were exemplified.

All traverses concluded with negligible errors, except a traverse from O DOG to  $\Delta$  LIGHT, which had a closing error of about 20 meters in azimuth, and 10 meters in distance. This error was adjusted by the usual methods. Plane-table triangulation was extended in Pohick Bay from Stations POHICK and ACCO to Signals DIP and FIF.

PURPOSES:

The purpose of this sheet was (a) to locate intermediate signals for detailed revision hydrography, (b) to test the permanency of the shoreline as compared with the date of the original survey, (c) to afford each of the Junior Officers attached to the party at the time some practical experience in plane-table work, and methods.

GENERAL OBSERVATIONS:

Due to limited time available, the survey did not include as much detail adjacent to the shoreline, as was desirable (locations of

buildings, roads, etc.).

The wharves at OLD, PER, OUT, UP, and near  
A GUNSTON are dilapidated and unfit for use as wharves.

Comparisons of this survey with photostats of the original survey appears to indicate that there was a lack of adequate control for large scale reproduction in the interior of the cove at the time of the original survey.

The rodding was all done by the above mentioned Junior Officers.

STATISTICS:

Miles of shoreline surveyed	9.4 statute miles.
Miles of creeks surveyed	0.1 " "
Miles of roads surveyed	0.1 " "
Area surveyed	0.6 sq. stat. miles.

Respectfully submitted,

*L. P. Sowles*

L. P. Sowles,  
Deck Officer, C. & G. Survey.

Approved:

*Fred L. Peacock*

Fred L. Peacock,  
H. & G. Eng'r., C. & G. Survey,  
Chief of Party.

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 19, 1927.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4222

Gunston Cove, Potomac River

Surveyed in 1926

No instructions available

Chief of Party, F. L. Peacock.

Surveyed by L. C. Wilder and training party.

Inked by C. LeFever.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions, except for the omission of a magnetic meridian.
3. The junctions with the previous surveys are adequate.
4. No further surveying is required.
5. The field drafting is satisfactory except in one respect -- too vigorous use of eraser in cleaning the sheet was exercised and the shoreline was thinned out so that much of it had to be re-drawn.
6. The character and scope of the field work is excellent.
7. Reviewed by E. P. Ellis, February, 1927.

Approved:

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Chief, Section of Field Records (Charts)

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Chief, Section of Field Work (H. & T.)

