

8128

8128

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic
~~*Plane Table*~~
~~*Hydrographic*~~

Survey No. T-8128
(Field)

MARYLAND
TINGLES ISLAND
QUADRANGLE

N3807.5-W7507.5/7.5

LOCALITY

State Maryland

General locality Chesapeake Bay (East, Shore)

Locality Tingles Island (Green Run)

1942

CHIEF OF PARTY
W. D. Patterson
Fred. L. Peacock

DATA RECORD
SURVEY NO. T-8128

PHOTOGRAPHS:

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE	
Nine Lens Photographs				Atlantic Tide	Chincoteague Bay Tide
*8773-8776	4-14-42	2:11	1:20,000	0.3 above M.L.W.	0.32 above M.L.W.
*8748-8749	4-14-42	1:23	1:20,000		0.42 above M.L.W.
*8731-8734	4-14-42	1:00	1:20,000		0.44 above M.L.W.
Single Lens Photographs					
**3-241-3-243			enlarged from		
1-275-1-280	unknown		1:60,000 to 1:20,000	unknown	unknown

TIDES:

Tides were computed from predicted tide tables, using Sandy Hook, N. J. as reference station. Because the shoreline on this survey lies along the Atlantic Ocean and Chincoteague Bay, two sets of tides were computed. For tides on the Chincoteague Bay shore correction was made to Snow Hill Landing. For tides on the Atlantic Ocean side correction was made to North Beach Coast Guard Station. Ranges were computed as follows:

Snow Hill Landing	North Beach Coast Guard Station
Mean Range - 0.4'	Mean Range - 3.4'
Spring Range - 0.5	Spring Range - 4.1'

CAMERAS:

- *U. S. Coast & Geodetic Survey, nine lens camera (focal length 8 $\frac{1}{4}$ ")
- **Special single lens aerial mapping camera (focal length 4") commercial contract.

GENERAL INFORMATION:

Chief of Party.....Fred. L. Peacock
Field Inspection by War Mapping Field Party No. 1, Lieut. Comdr. Wm. D. Patterson in charge, Spring, 1942
Projection by.....Ruling Machine, Washington Office.....Unknown
Projection Checked byWashington Office.....Unknown
Scale Plot by.....Jack L. Rihn.....June, 1942
Control Plotted by.....Calvert J. Cahn.....Aug. 3, 1942
Control Checked by.....James J. Brazil.....Aug. 25, 1942
Radial Plot by.....J. Edward Deal, Jr.....Sept. 2, 1942
to Sept. 4, 1942

GENERAL INFORMATION: (cont'd)

Radial Points Pricked by.....Calvert J. Cahn.....Sept. 1942
Additional Points Pricked by....John T. Callihan.....Sept. 4 to 9, 1942
Detail Inked by.....John T. Callihan.....Sept. 10 to 30, 1942
Shoreline Inked by.....John T. Callihan.....Sept. 10 to 20, 1942
Scale.....1:20,000 x .986=1:19,720.....
Scale Factor.....1.014
Time Required for Detailing.....20 working days
Preliminary Review.....Carl. W. A. Supp.....Oct. 27 to 30, 1942

Maryland system of plane coordinates, single zone.

*Reference station: Beacon Clumps, 1907 $x = 1,315,985.12$
N.A. Datum of 1927 Adj. $y = 115,559.42$*

*Latitude $38^{\circ}08'12.218''$ (376.7 meters)
Longitude $75^{\circ}12'21.796''$ (530.8 meters)*

Received in office 11/2/42

Published 9/17/43

Registered 1/10/45

DESCRIPTIVE REPORT
TO ACCOMPANY
COMPILATION OF AIR PHOTOGRAPHIC SURVEY NO. T-8128
STATE OF MARYLAND
TINGLES ISLAND (GREEN RUN)

Date of this Report

October 1, 1942

This rough draft map manuscript is part of War Mapping Project CS-278, and falls within sub-project division CS-278-B. This map manuscript covers the $7\frac{1}{2}$ minute Tingles Island Quadrangle and is part of the 15 minute Green Run Quadrangle.

INSTRUCTIONS:

Instructions for this project are contained in the Director's letter dated March 4, 1942. Supplemental instructions are contained in inter-office correspondence of March 27, and June 5, 24, 1942.

FIELD INSPECTION:

Roads and woods classifications, drainage, and elevations were done by War Mapping Field Party No. 1 under the direction of Lieut. Comdr. Wm. D. Patterson in the Spring of 1942.

This map manuscript was detailed before field inspection was completed. Therefore it is suggested that the field edit of this map manuscript be especially thorough.

PHOTOGRAPHS:

Photographs were taken with the U. S. Coast & Geodetic Survey Nine lens camera (focal length $8\frac{1}{4}$ ") to an approximate scale of 1:20,000. Additional single lens photographs were taken by a commercial firm with a special single lens aerial mapping camera (focal length 4"). These single lens photographs were taken at 1:60,000 scale and enlarged to 1:20,000 scale.

Four flights of Soil Conservation Service contact prints were used to aid in detailing of buildings. These photographs are dated June 2 and June 6, 1938.

CONTROL:

There are seven U. S. Coast & Geodetic Survey triangulation stations that fall within the detailed limits of the map manuscript. They are as follows:

- Mud, R. M. 1932
- North Beach Coast Guard Station 1907, r1933
- Beacon Clumps 1907, r1933
- Birch 2 1933
- Neck 1907
- Handy Hammock, R.M.I. 1907
- Sampoi, 1908

CONTROL: (cont'd)

The field party forwarded this Party a picking card for "Shell" a recoverable Hydrographic Station. After this point was radially established the Geographic Position at Sanpoi, 1908 was plotted and coincided with "Shell". It is the opinion of the compiler, that Sanpoi, 1908 and "Shell" occupy the identical positions. *Sanpoi 1908 recovered in 1938 by U.S.E.*

Three other triangulation stations used for the control of secondary points and detail on this map manuscript fall outside the detailed limits, They are:

Longwell's Windmill, 1908
Ricks, 1908, r1933
Holston, 1942

RADIAL PLOT:

A combined radial plot involving Surveys Nos. T-8130, T-8129, T-8128, T-8154, T-8155 and T-8156 was run on September 2, 1942 by the usual celluloid template method. The number of control stations permitted good intersections on the secondary control points and the result was a very satisfactory plot. The secondary control points pricked on the 1:20,000 scale photographs were used in radially plotting additional points.

Some difficulty was encountered from photographs which had twisted chambers. Radials from such chambers were ignored. Tilt was not computed on any photograph. Due to the sufficient overlap of photographs, center chamber radials from slightly tilted photographs could be ignored.

RECOVERABLE HYDROGRAPHIC OR TOPOGRAPHIC STATIONS:

There are seven recoverable hydrographic signals included in the area covered by this survey. They are:

"Nor"
"Jim"
"Dot"
"Pal"
"Beacon" - *This is "Light 25"*
"She"
"Ace"

Descriptions on form No. 524 are submitted for the above signals.

46 only are shown on compilation.

Eight suitable points were selected and pricked on the photographs in the compilation office for future use as hydrographic signal sites. These points were radially plotted and their descriptions appear on the discrepancy overlay. Their positions are indicated by 1.5mm circles in black acid ink.

DETAIL:

A scale plot was run for the entire area included by sub-project CS-278-B. This was a great aid in detailing, as the scale selected for the projections was very close to the average scale of the photographs.

DETAIL: (cont'd)

Buildings: With the exception of small out-buildings; all discernable buildings have been shown on the map manuscript. In cases where the character of buildings could not be determined from office inspection of the photographs, and they had not been field inspected, the buildings were shown. It is probable that in the course of the field edit, some of these buildings will be found to be superfluous. It is recommended that such buildings be deleted at that time. *A number of buildings were deleted by the field edit party.*

Roads: All roads were detailed by using a single line which represents the center line of the road. The roads have not been classified according to military specifications because no field data was available at the time of detailing. They should be classified during the field edit. *(This has been done.)*

Wooded & Cultivated or Cleared Areas: The demarcation between wooded and cultivated or cleared areas, or between wooded areas of different characteristics, is shown by a long dash line. Cleared areas within wooded areas are identified by the letters "CL". Pending correct military classification during the field edit, wooded areas have been indicated by the letter "T" placed within the tree boundary line.

Drainage: Ditches shown in marsh areas have been interpreted stereoscopically from the office photographs. *A number of these ditches, which were almost invisible on the photographs, were deleted in office.*

Shoreline, Shoal & Marsh Areas: The high-water line is indicated by a heavy full line. Marsh shorelines or limits of navigation are indicated by a light full line. Shoal areas are shown by a long, dashed line.

The inner boundaries of marsh areas have been indicated by a short, dashed line, wherever shown by field inspection. However, some inner marsh boundaries were not field inspected. These areas were examined and interpreted under the stereoscope and the limits of the marsh area are indicated by the extent of the symbol. These limits should be verified during the field edit.

Political Boundaries: No political boundaries are shown on the field inspection records for this survey. *These boundaries were added during the field edit.*

COMPARISON WITH PREVIOUS SURVEYS:

Chart 1220: A thorough comparison was hindered by the difference in scale. However, the general shoreline shown on this survey is in accordance with Chart 1220.

Specifically, on chart 1220 there is an island at Latitude $38^{\circ} 14' 25''$ and Longitude $75^{\circ} 12' 15''$ which cannot be found on the nine lens photographs or field inspection for this survey.

The island at Latitude $38^{\circ} 12' 10''$ and Longitude $75^{\circ} 10' 25''$ on this survey is different in shape than as it appears on Chart 1220, and some fast land is indicated on the field inspection photographs which does not show on Chart 1220.

A general shoal line appears on nine lens photographs along the eastern shore of the Chincoteague Bay which does not show on Chart 1220.

COMPARISON WITH PREVIOUS SURVEYS: (cont'd)

Two spoil piles at Latitude $38^{\circ} 11' 10''$ and Longitude $75^{\circ} 12' 30''$ on this survey are shown as fast land on Chart 1220. At the present time, they appear to be shoal areas.

Three previous surveys, Nos. T-264, T-2895, T-4797 were not available for comparison by the compilation office.

JUNCTIONS:

On the North: Control points were common with Survey No. T-8126 to the North.

On the West: Control points were common with Survey No. T-8129 to the West.

On the South: Control points were common with Survey No. T-8126 to the South.

On the East: The boundary to the east is the Atlantic Ocean.

Junctions of detail with aforementioned surveys were satisfactory.

In checking the junction with Survey No. T-8156 to the south, it was noted that the Maryland grid system at the points $(x=1,330,000)$ $(y=110,000)$ and $(x=1,310,000)$ $(y=110,000)$ fail to coincide on the respective projections by approximately 2.0 millimeters of latitude. It is suggested that the Maryland grid on the projections for these two surveys be checked.

*This checked a.k.
mm Bell
1.26.40*

REMARKS:

All ambiguities between field inspection photographs, and any omissions or differences between the field inspection and office interpretation are indicated on an accompanying discrepancy overlay. Such comments and suggestions as are deemed likely to be of assistance in the course of the field edit have also been included thereon.

HORIZONTAL ACCURACY:

Well-defined points of detail as shown on this planimetric map manuscript are believed to be within the limits of error as defined in paragraph 54 of instructions for War Mapping Project CS-278, dated March 4, 1942.

RECOMMENDATION FOR FUTURE SURVEYS:

The detail as presented on this map manuscript is believed to be complete, but is to be field edited for corrections, additions and deletions.

Respectfully submitted,

John T. Callihan
John T. Callihan
Ass't. Photo Aid

Reviewed by,

Carl W. A. Supp
Carl W. A. Supp
Jr. Topographic Engineer

Approved, 10/30/44

L. W. Swanson
L. W. Swanson, Lieutenant
U. S. Coast & Geodetic Survey

Approved & Forwarded,

Fred L. Peacock
Fred L. Peacock
Officer-in-Charge
Baltimore Field Office

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8128

Chart Letter #603 1942
Ref #189 1944

TO BE CHARTED
TO BE DELETED } STRIKE OUT ONE

LANDMARKS FOR CHARTS
PERMANENT AIDS TO NAVIGATION
Sallisbury, Md.

Nov. 11, 1942

I recommend that the following objects which have (been) been inspected from seaward to determine their value as landmarks, be charted on (deleted) the charts indicated.

The positions given have been checked after listing. *E.H.K.*

H. Hallen
F. L. Gallen

Chief of Party

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION										METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED		
		LATITUDE		LONGITUDE		DATUM													
		°	'	D. M. METERS	°		'	D. P. METERS											
	Sinepuxent Bay Light 39	38 10		106.8	75 14		340.4	N.A. 1927	Plane-table	1942		X		1220					
	Sinepuxent Bay Beacon 38	38 10		764.5	75 13		1204.0	"	"	"		X		"					
	Sinepuxent Bay Beacon 37	38 10		1294.2	75 13		579.8	"	"	"		X		"					
	Sinepuxent Bay Light 35	38 11		156.3	75 12		1322.5	"	"	"		X		"					
	Sinepuxent Bay Beacon 34	38 11		852.3	75 12		688.2	"	"	"		X		"					
	Sinepuxent Bay Beacon 33	38 11		1655.7	75 11		1227.8	"	"	"		X		"					
	Sinepuxent Bay Light 31	38 12		396.5	75 11		622.4	"	"	"		X		"					
	Sinepuxent Bay Beacon 29	38 12		778.5	75 11		306.9	"	"	"		X		"					
	Sinepuxent Bay Beacon 28	38 12		1622.8	75 10		1197.8	"	"	"		X		"					
	Sinepuxent Bay Beacon 27	38 13		489.2	75 10		588.8	"	"	"		X		"					
	Sinepuxent Bay Light 25	38 13		1068.5	75 10		141.5	"	Sextant Plane-table	"		X		"					
	Sinepuxent Bay Beacon 23	38 13		1716.4	75 09		1111.4	"	"	"		X		"					
	Sinepuxent Bay Beacon 21	38 14		450.8	75 09		672.3	"	"	"		X		"					

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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 by individual field survey sheets. Information under each column heading should be given.

Chart Letter #603 1942

at 603	1942
Ref. #789	1944

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

LANDMARKS FOR CHARTS PERMANENT AIDS TO NAVIGATION

~~SECRET~~ 13A

1407-21

1943

I recommend that the following objects which have ~~(been 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. 26/2/16

Mr. J. Allen

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

Remarks

Decisions

1		381751
2		"
3		"
4		"
5		"
6	Name OK if features still exist	"
7		" USGB
8		379753 USGB
9		380523
10	Former USGB decision re-affirmed, not Broken Marshes	381752 USGB
11		382751
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		382752
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8128

TINGLES ISLAND quadrangle

No. 1

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
Winter Quarter										1
Tingles Island										2
Tingles Narrows										3
Lumber Marsh Island										4
North Beach Coast Guard Station										5
Beacon Clumps										6
Outward Tump										7
Assateague Island										8
Chincoteague Bay										9
Robins Marsh										10
Sinepuxent Bay										11
Great Egging Beach										12
Little Egging Beach										13
Goose Point										14
Green Point										15
Point										
Sandy Island										16
Sandy Point										17
South Point										18
Lower Sinepuxent Neck										19
Salt Point										20
Rum Point										21
Gibbs Pond										22
Green Point Creek										23
Newport Bay										24
Island Point										25
Knot Point										26
Handys Hammock										27

	Remarks	Decisions
1		382752
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10	Cannot apply pending receipt of name sheet to north, as it is only partly on this quad.	"
11		"
12		"
13		
14		
15	Names of districts taken from 1935 Md. Geol. Survey Map of Worcester County.	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8128

No. 2

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
Marshall Creek ✓										1
Cropper Island ✓										2
Bassett Creek ✓										3
Log Point ✓										4
Out Point ✓										5
St. Lawrence Neck ✓										6
Cropper Creek ✓										7
Cropper Pond ✓										8
Cropper Neck ✓										9
Catbird Creek ✓										10
Newport Neck ✓										11
Spence Cove ✓										12
										13
Political subdivisions:										14
Ocean City No. 10										15
Snow Hill No. 2										16
East Berlin No. 3										17
Newark No. 4										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

RECEIVED
JUL 17 1943
H. H. H. H. H.

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political boundaries, woodland, marsh, and swamp limits, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

Special report on field work by Commander K. T. Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.278-B was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000. (This photography was supplemented by the use of single lens photographs.) Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore ~~Tampa~~ Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8128

TINGLES ISLAND QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy There is no horizontal accuracy test within the limits of this quadrangle. Refer to quadrangle T-8130 for the closest horizontal accuracy test. The results of this test were very satisfactory. No vertical accuracy test was required on this quadrangle inasmuch as nearly all of the land area is less than 20 ft. above mean-sea-level.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-264	1:20,000	1850
T-2895	1:20,000	1908
T-2896	1:20,000	1908
T-4797	1:20,000	1933

"Green Run"	1:62,500	1901	U.S.G.S.
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Comparison with Nautical Charts Nos. 1220

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Only small differences in shoreline exist.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Corrections of minor details only were necessary on this quadrangle.

Reviewed 2-10-43 By W. W. Belling
under direction of D. H. Benson *D.H.B.* *Per. H.C.R.*

Inspected by B. G. Jones *B.G. Jones*

Examined and approved:

Robert W. Knier
Chief, Surveys Branch

K.T. Adams
Chief, Topography Section

J.S. Borden
Chief, Div. of Charts

G. Waide
Chief, Div. of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-8128

Record of Application to Charts

[illegible]

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.