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Diag'd, on Diag. Ch. No. 1233								
Form 504								
U. S. COAST AND GEODETIC SURVEY								
DEPARTMENT OF COMMERCE								
DESCRIPTIVE REPORT								
Air Photographic Type of Survey Shoreline Survey								
Field No. T-8043								
1000								
LOCALITY								
State North Carolina								
General locality Core Sound								
Locality Portsmouth Bank - Core Bank								
194 5								
CHIEF OF PARTY								
R. W. Knox								

DATE March 15, 1949

B-1870-1 (1)

DATA RECORD

T- 8043

Quadrangle (II)

Projects Henrichias

Piold Office:

Chief-of-Party-

Compilation Office: Washington, D. C.

Chief of Party: R. W. Knox

Instructions dated (II III);

Copy=6tled=in=Descriptive
Repert-Nov-T------(VI)

Verbal only

Completed survey received in office: July 5, 1945

Reported to Nautical Chart Section:

Reviewed: 3 Feb-49

Applied to chart No. 4/9

Date: 7/31/45

Redrafting Completed: Nong

Registered: 18 Feb. 1949

Published: Not to be published

Compilation Scale: 1:20,000

Published Scales

Scale Factor (III): 1.00

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Core, Coast Guard Sta., Flagpole, 1933

Lat.: 34°51 | 31.038" - 956.4mLong.: 76°18 | 37.524" - 953.2m. Adjusted - Gnadjusted

State Plane Coordinates (VI): Not shown

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time (E.S.T.	Stage of Tide				
8949 - 8952 *	4/16/42	2:57 - 3:01 p.m.	1:20,000	0.6' above M.L.W. 0.2' above M.L.W. 2.4' above M.L.W. 2.2' above M.L.W.			
867 - 877 **	1/24/45	11:20 a.m.	1:20,000				
202 - 204 **	1/5/45	1:50 p.m.	1:20,000				
205 - 208	1/5/45	2:05 p.m.	1:20,000				

- * Nine-lens photographs
- ** Single lens photographs
 All photographs are unmounted.

Tide from (III): Tide tables, Atlantic Ocean, reference station Hampton Roads Va.
with corrections to Cape Lookout, N. C.
Mean Range: 3.7
Spring Range: 4.4

Camera: (Kind or source) U. S. Coast and Geodetic Survey nine lens camera (focal length 81), U. S. Coast and Geodetic Survey single lens camera (focal length 6")-Type "C". All negatives are on file in the Washington Office.

Field Inspection by: No field inspection date:

Field Edit by: No field edit

date:

Date of Mean High-Water Line Location (III):

Photographs of: April 16, 1942 January 5, 1945 January 24, 1945

Projection and Grids	ruled by (III) S. Rose	date:	3/29/45
n n n	checked by: S. Rose	date:	3/29/45
Control plotted by:	Michael G. Misulia Dorothy Mosely	date:	4/2/45
Control checked by:	Michael G. Misulia Dorothy Mosely	dates	4/2/45
Radial Plot by:	Michael G. Misulia	dates	4/45
Detailed by:	Dorothy Mosely	date:	4 & 5/45
	ion office by: Michael G. Misulia	date:	6/45

Map Manuscript
Elevations on Field Edit Sheet
checked by: None

date:

STATISTICS (III)

Land Area (Sq. Statute Miles); 20

Shoreline (More than 200 meters to opposite shore): 66 statute miles

Shoreline (Less than 200 meters to opposite shore): 20 statute miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: None

Roman numberals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

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

Remarks:

RADIAL PLOT

26. Control:

The control plotted consists of four horizontal control stations, all of which are U. S. Coast and Geodetic Survey triangulation stations.

CORE, COAST GUARD STATION, FLAGPOLE, 1933 LIFE SAVING STATION, CUPOLA * HARBOR ISLAND CLUBHOUSE, EAST CHIMNEY ATLANTIC METHODIST CHURCH SPIRE, 1933

* Station destroyed. Point pricked on photographs in same position as that shown on Survey T-3662, scale 1:40.000. date 1916.

27. Radial Plot:

A combined radial plot was laid for Surveys Nos. T-8043 to T-8045, inclusive, which lies within the limits of Chart No. 421.

The area of these surveys was covered by nine and single lens photographs. Templates were used for the nine lens photographs, while the single lens photographs were oriented directly under the celluloid projection sheet.

All of the horizontal control, shown on the projection sheets with the conventional triangulation symbols, was identified in the office from available descriptions.

The horizontal control consists of the following 21 U. S. Coast and Geodetic Survey triangulation intersection stations:

ATLANTIC METHODIST CHURCH SPIRE, 1933

CAPE LOOKOUT LIGHTHOUSE, 1933 * CARTARET CLUB, MAIN CHIMNEY CORE, COAST GUARD STATION , FLAGPOLE, 1933 DAVIS SHORE, N.E. CHURCH SPIRE, 1933 DAVIS SHORE, S.W. CHURCH SPIRE, 1933

** HARBOR ISLAND CLUB HOUSE. E. CHIMNEY HARKERS ISLAND E. CHURCH SPIRE. (NORTHERN METHODIST CHURCH), 1933 HARKERS ISLAND W. CHURCH SPIRE, (SOUTHERN METHODIST

CHURCH), 1913, r. 1933 E. RADIO TOWER, CAPE LOOKOUT, 1933 * LIFE SAVING STATION CUPOLA

KINGS PT. BEACON, 1933 MARSHALLBURG BAPTIST CHURCH SPIRE, 1913 MARSHALLBURG METHODIST CHURCH SPIRE, 1913. S. GABLE HO. N.E. OF STA. LEO, 1933

* SEA LEVEL CHURCH SPIRE SHELL POINT BEACON, 1933

- * STACY SPIRE SHACKLEFORD BANK E. GABLE HOUSE, 1933 W. RADIO TOWER, CAPE LOOKOUT, 1933
- * WILLISTON SPIRÉ
- * Positions were taken from the original computations made in 1915, the datum of which was listed as "Approximately North American". These positions were office adjusted to N. A. 27 datum.
- ** Station destroyed. Point pricked on photographs in same position as that shown on Survey 3662, scale 1:40,000, date 1916.

All of the horizontal control stations, common detail points from adjoining surveys, and flight lines were "held", either 100% or tangent in the plot.

Surveys Nos. T-8044 and T-8045 were adequate in control density, while more control for Survey No. T-8043 would have been desirable, it is believed to be of required accuracy. Secondary points and photograph centers which were established on Survey No. T-8044 were used to supplement the horizontal control on Survey No. T-8043.

The error of closure was negligible and no exceptional difficulty was encountered in the adjustment.

The position of all secondary points and photograph centers, established by the radial plot, have been shown on the glossy side of the projection sheet with small double and large single blue ink circles respectively.

Chamber no. 5, of photograph no. 8949, could not be held in the plot because of the incorrect orientation of this chamber relative to the photograph. The presence of double images along the mask lines of this chamber were noted. When drawing rays from this chamber, intersections established from other photographs were used in determining the correct orientation.

The positions of the secondary points and photograph centers, established by this combined plot, are believed to be within the standard of accuracy required by the Bureau.

COMPILATION REPORT

28. Detailing:

There were no field inspection data for the area of this Map Drawing. All planimetric details were interpreted by the compiler from the office photographs, the stereoscope being used when needed.

A small area in the northwest portion of the Map Drawing, from Latitude 35°01' to 35°02' and Longitude 76°20 to 76°21' was not shown because of insufficient photographic coverage. For the same reason the complete detail of the shoal areas north of Wainwright Island could not be shown.

The area from Latitude 34°50' to 34°56' and Longitude 76°20' to 76°21' was not shown on this Map Drawing. This area was detailed on Survey No. T-8044 so that the entire airport at Atlantic might be included on one survey.

The general character of the shoreline consists of sandy beaches and marshy areas while the interior consists mainly of marsh and wooded areas. There are a few scattered settlements along the southern shore of Hog Island Bay.

All roads, accompanied by the note "d.f.l." or "d.d.l.", have been shown by a center line only and are to be considered 0.6 m.m. in width. Trails have been shown by a single dashed line accompanied by the note "s.d.l.".

The scales of the photographs and of the Map Drawing were in good agreement for the most part. However, in a few small areas the vertical projector was used. The single lens photographs were used in detailing in preference to the nine lens photographs because of their later date.

30. Mean High-Water Line:

The mean high-water line has been shown by a full heavy weight black acid ink line. Where marsh areas border the mean high-water line they have been shown with the conventional symbol, the outer limits of which have been shown with a light weight black acid ink line. The shore lines along Core Bank, Portsmouth Bank, and the southern shore of Pamlico Sound are exposed to storms, making these shorelines subject to considerable changes.

31. Low-Water and Shoal Lines:

The approximate outer limits of shoal areas have been

shown by a dashed light-weight black acid ink line. The approximate outer limits of offshore sand areas have been shown by dotted black acid ink lines. These latter dotted lines are not to be considered the true position of the mean low-water line but are the outer limits of sandy areas visible on the photographs.

32. Details Offshore from the High-Water Line:

The only offshore detail on the Map Drawing is piling lying northeast of Hog Island and was shown with the conventional symbol.

33. Wharves and Shore Line Structures:

Piers have been shown on the Map Drawing with the conventional symbol.

37. Geographic Names:

No geographic name investigation was available. All names on the Map Drawing have been taken from available nautical charts.

The geographic names covering the area of the Map Drawing have been compiled in two lists (undisputed and disputed) and are submitted herein.

38. Junctions:

The junction with Survey No. T-5044 on the southwest corner of the Map Drawing is in agreement. Junctions could not be made with the old topographic surveys to the north and west because of the changes in planimetric detail.

There are no contemporary surveys to the east or south of the Map Drawing.

39. Recommendations for Future Surveys:

The planimetry shown on the Map Drawing is believed to be complete in all details of importance except for the areas which did not have complete photographic coverage mentioned under side heading number 25.

The positions of the planimetric details shown within the area - Latitude 34°59' to 35°01' and Longitude 76°18' to 76°21' - are believed to be relatively weak with respect to the horizontal control because of insufficient photographic coverage.

The probable error in the position of radial points and details of importance is believed to be within the limits of satisfactory accuracy, with the exception of the area mentioned in the previous paragraph.

It is to be emphasized that this survey was made by office compilation from aerial photographs without ground identification of control or clarification of photographic details. This survey is adequate for Nautical Chart compilation or revision but is not up to Bureau Standards of completeness or accuracy and should not be used for Hydrographic control or certified for engineering or legal purposes.

44. Comparison with Existing Topographic Surveys:

Survey	Date	Scale
T-1016	1866	1:20,000
T-1020	1866	1:20,000
T-1277a	1872	1:20,000
T-3662	1916	1:40,000

A detailed comparison with the above mentioned surveys was not possible because of the changes in planimetric detail, however the general outlines are in agreement.

The above mentioned surveys are superseded by Survey No. T-8043.

45. Comparison with Nautical Charts:

Chart No. 421, published Nov. 1940, scale 1:40,000, reissued Aug. 1943.

Chart No. 1233, published Aug. 1942, scale 1:80,000, reissued May 1944.

The above mentioned charts were compiled from the old surveys mentioned in paragraph 44; thus detailed comparisons of this Map Drawing with the nautical charts could not be made. In general, however, the planimetric details are in fair agreement. This wheel was compiled for

correction of the charts.

Compilation and Descriptive Report by:

Compilation and Descriptive Report reviewed by:

Approved by: BJ goves.

Dorothy Moseley

Michael G. Misulia Cartographic Engr.

L. C. Lande

Cartographic Engr.

GEOGRAPHIC NAMES		/	de la	S. Way	ridie /	//	o Cindo	Mag Mediling	ANI85	4
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Name on Survey	A	No. O	C 50. Q	D	E	or F	Q. G	H	S/K	/
UNDISPUTED										1
BACK BAY							5 7			2
BARRY BAY										3
CAMP POINT										4
CEDAR ISLAND										5
CEDAR ISLAND BAY										6
CHAIN SHOT ISLAND					1					7
CORE BANK										8
CORE SOUND										9
DRUM INLET										10
GREEN POINT										11
HALL POINT										12
HARBOR ISLAND HOG ISLAND										13
HOG ISLAND BAY										14
HOG ISLAND POINT										16
HOG ISLAND REEF										17
LEWIS CREEK										18
LONG POINT										19
LOOKOUT POINT			afe	brave	- 70		. 0	+ 1		20
NORTH BAY			Dep	ach	for	the F		to D	ego	21
OYSTER CREEK			liste	din	the a	Revie	ed fr	you	<i>v</i> .	22
PAMLIGO SOUND										23
PORTSMOUTH BANK									•	24
ROBINSON POINT	,									25
RUMLEY BAY										26
SHELL ISLAND										27 M 234

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	/	Super O	or No. O	D D D	or sold in	Or local Made	O. Joseph Contract	And Arthur And	N.S. Light	/
Name on Survey	A	В	/c	/D	E	F	G	/H	/K	1
UNDISPUTED										
WAINWRIGHT ISLAND		of a contract of								
WHITE POINT										
THOROFARE BAY										
		+								
DISPUTED										
BIG DITCHPIG D	ITCH	Se	e or	eview	Repo	al				
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Division of Photogrammetry Review Report of e Map Manuscript T-8043 Shoreline

18. Geographic Names: "Big Ditch", listed under disputed names, is the accepted name according to Mr. Heck, Geographic Names Section, Division of Charts.

28. Detailing: This survey was compiled from aerial photographs without field inspection of any kind. It is not to be published and was intended only for the revision of nautical charts in this area.

It is superseded by more recent surveys in Project Ph-5. Refer to T-8726, T-8734, T-8735, and T-8741. A note that it has been superseded has been placed on the map manuscript.

prior to this review.

Reviewed by:

Under the direction of:

Cartographer

APPROVED:

Division of Photogrammetry

K.T. Adams Chief, Div. of Photogrammetry

Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 78043

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/31/45	419	L.a. M. Gann	Before After Verification and Review
10/22/45	1231	S. H. Benom	Before After Verification and Review Applied thry 419 after compenses with 7-8043
			Before After Verification and Review
			Before After Verification and Review
** **			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
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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.