5042

U.S. COAST & GEODETIC SURVEY
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FEB 28 1935

Acc.	Ng.	 -	• •

			Photo	DESCRIPTIVE REPORT Topographic Sheet No. 5042
				- · · ·
1				State North Carolina
ブ	,	G.B	;	Intracostal Waterway Mason Queen Inlet to Myrtle Sound
	, /	Decision		

FORM 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

193<u>4</u>

CHIEF OF PARTY

0.S.Reading

U.S. GOVERNMENT PRINTING OFFICE: 1934

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

PHOTO 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.

	REG	ISTER NO.T-5042.	5042
	State North Carolina.		<u>-</u>
	General locality Atlan Mason Locality Queen Inlet to	tic Coast. Intraco	ostal Waterway
	Locality Queen Inlet to	Garolina Beach. M	lyrtle Sound
	Scale_1;20,000 Date	Photographs. of kht/kh/ Sept.2 Compilation M	5.1933. 19 ar,31,1934.
	Vessel Army Air Copps F-lA		
		recommended for ap	
Photog	Chief of Party raphs plotted by, Donald K.	Albertson.	
	Inked by Donald K.	Albertson.	
	Heights in feet above	to ground to	o tops of trees
	Contour, Approximate contou	r, Form line inter	valfeet
	Instructions dated		, 19
	Remarks: Compilation of ae	rial photographs N	0.625 to 645 incl.
	Reduced to scale and printe	d by photolithogra	
		3 P O	***************************************
	Polyconic projection by;	D.K,Albertson.	
	Projection verified by;	Henry Olsen.	Feb, 6.1934.
	Control plotted by;	D.K.Albertson.	Feb.7.1934.
	Control verified by;	Henry Olsen.	Feb.9.1934.

Descriptive report to accompany Air Photo Topographic Sheet No. 5042. Queen Inlet to Carolina Beach. North Carolina.

General Information; -

This sheet is a compilation of five lens aerial photographs made up of one flight, taken with a T-3 camera No. 31-80 by the U. S. Army Air Corps on Sept. 25, 1933 at 11:30 A.M. Direction of the flight was northeast and a scale factor of .922 was used in making the projection for the finished celluloid plot.

High tide at Wrightsville Inlet on Sept. 25, 1933 occurred at 12:07 P.M.

The area of this sheet covered by one strip of photographs, extending from Queen Inlet on the North to Carolina Beach on the South; embraces the intercoastal waterway with channel facilities as well as all adjacent topography that might prove of specific value. As a whole the area comprises approximately 15.2 statute miles of outer coastline, 16.5 statute miles of intercoastal waterway, 47 square miles of topography, 46.2 statute miles of inside shoreline, and approximately 11 statute miles of rivers and sloughs less than 200 meters wide.

Control; -

The control for this sheet consists chiefly of Coast Survey Triangulation by C. D. Meaney, 1932, R. P. Strough, 1914, C. L. Garner, 1918, and J. A. Bond, 1933. At the time of the compilation the control had not been reduced to 1927 Datum. Triangulation, however, was adjusted to the 1927 Datum by correction values supplied by the Division of Geodesy.

In making the radial plot triangulation station "D", U.S.E., Lat. 34°06', and Long. 77°56; failed to coincide with that spotted by the field inspection party by approximately 500 meters. According to the geographic position this station plots on the southeastern tip of an island in the Cape Fear River, whereas the field inspection locates same at the northwestern extremity of this same island. Due to this decided difference, this station was not used in making the radial plot.

Other than the above mentioned discrepancy, the control was well distributed and accurately spotted by the field inspection party, and enabled a good plot to be made in the minimum time.

Compilation; -

The radial plot method was used tying in to the plot of T-5041 on the South, and plot T-5043 on the North.

It might be added that the field inspection notes were incomplete insofar as only the "B" prints were furnished, and covered only the area running the length of the intercoastal waterway, making it necessary to interpret the outer coastline, as well as the inland topography west of the intercoastal waterway from the office photographs and previous sheets.

Combrol;

The field inspection was made on "B" prints numbered from 336 to 375 inclusive. The compilation was made on photographs numbered 625 to 645, inclusive, a reflight much Searer than the 336-375 flight.

* The Geographic Brand has not made a decum on the name & This Inlet. This shat is showing the same name as on the chart Wing htorice help

and the second of the second o

Page 1.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5042

Title (Par. 56) Queen Inlet to Carolina Beach, atlantic Coast, N.C.

Chief of Party O. S. Reading Compiled by NK albertson

Project nouth Carolina

Instructions dated

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 3. The control and adjustment of the radial plot were adequate. miles a cheir removal, they are (.89, 29)
- 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)
- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. 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.)
- 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. See reverse side also adultimal sheet.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate.

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.

7. cont. The wreeks shown on chart 1235 in the vicinity of 34004, 77°-52; are not shown on this shall there was no newtime made of them by the field inspection and there is not evidence of them on the photographs T-4785 does not cover the louter crost since there was no newtime key there field party of their removal, they are very prototy sille in existince and showed remain of the chart

teacons and U.S.E. statems were transferred to this sheet from the cery thosp Cartral sheet T-4785. Transferred by Poreglas H. Benson Checked by Henry Colse.

The names Parviaure Ereck, Earsett breek, and Pickett Rock were Junich of by Mr. John Marchall of Helmington, N. C. The Off. K. T. Alaws. July names face hem submitted to Mr. H. Bacon for approval.

Dec. 26, 1934.

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U.S.E. stations along channel, bouys,

Beacon locations and channel width were secured from the topographic survey No. 4785, and accurately plotted from same.

Comparison with other Surveys; -

Both North and South junctions agree favorably with the adjoining sheets (T-5041 and T-5043).

However in comparing this sheet with T-4249, made in 1927, considerable discrepancy was found in the coastline at Lat. 34°13' and Long. 77°47'. It is evident that appreciable fill has occurred at this point, (known as Moores' Inlet') since 1927. It was also noted that at Wrightsville Beach, Lat. 34°12', and Long. 77°48' a number of new piers have been constructed in place of numerous old ones that have been removed.

At Masonboro Inlet, Lat. 34°11', Long. 77°49' a comparison with sheet T-4248 made in 1926, shows that the inlet is now considerably wider, and that the outer coastline is now approximately 100 meters further east. This continues to be decidedly apparent between Lat. 34°10' and 34°11' at Long. 77°49'. A slight change was also noted in the remaining coastline which naturally could be expected.

A single lens strip of photographs (M28.(884 D-8) to M45) along the outer coast were taken Jan. 14, 1934 at 1:20 P.M.

This strip of the coast was flown because of possible changes due to severe storms after the original photographs were taken. These photographs were used for a slight revision of Masonboro Inlet.

Low tide on Jan. 14; 1934, occurred at 1:09 P. M. at Wrights-ville Beach.

Landmarks; -

A list of landmarks recommended for this area will be found with Descriptive Report No. 4785.

Recommendation for Eurther surveys;

It is believed that the compilation does not have a probable error of more than ten meters in position of well defined detail of importance for charting, and that no further survey is believed necessary at this time:

Remarks:

The work of the field inspection party over the area covered by them was good.

(Sgd.)

Respectively submitted.

Donald K. Albertson,

Jr. Cartographic Engineer.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) none submittee

13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) with T-4785 Have landmarks are shown in chart 1235 in the area of this sheet (T-5042) Only me is mentioned in the reports T-4785. and warmations of the photos raphs failed to break the silver was a 100 of 1007 14. The geographic datum of the sheet is N.A. 1927 madjisted and the reference station is correctly noted. (Par. 34.)

- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) from chart 1235 and field inspection notes, and IT-4785. The name summer found to from file photo #350 (Bijuit). (see opposite pages) 17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.
- 19. Remarks:

Examined and approved:

Remarks after review in office:

- Trank y Eiskine Reviewed in office by:

Examined and approved: KT. H

Asa't Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

ADDITIONAL NOTES

7,0007

stops at the Auditoriam. I-4249 (1927) shows the highway continuing The bridge across the Sound to Wrightsville Beach is an electric railway bridge and does not carry automobile traffic. The highway paralleling the electric line from wrightsville into Wrightsville Beach. This is incorrect.

length of the island. It is shown by a single solid line. Upon In Wrightsville Beach there is a walkway extending the entering Wrightsville Beach the electric line turns south and parallels this walkway. grand of Ewhins

Jan 4, 1935

North Carolina

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Survey No.	T5042	
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Mar 20,1935 GEOGRAPHIC NAMES

Chart No. 1235-425

Names underlined in red approved March #1, 1935
Diagram No. _
Harlow Bacon Exam.

Harlow Bacon Examination by What Approved by the Division of Geographic Names, Department of Interior. Referred to the Division of Geographic Names, Department of Interior. R

Let names marked R stand till change by DGN.

Under investigation. Q

Status	Name on Survey	Name on Chart	·New Names in local use	Names assigned by Field	Location .
	Howe Pt	Same		V	/
	Howe Creek	- fig			<i>'</i>
	Queen Inlet R	Mason Inlet approved by * D.G.N. Nov. 26, 1935	Mason's Inlet a	chorted as local	name by MS, in 1927 & DGN.
	Middle Sound	D.G.N. Nor. 26, 1935		, v	
•	Wrightsville	ret .		L	
•,	Wrightsville Inlet	Moore I'mlet alphrowed by	Moore R R Inlet	charted as the h	real name J. C. B. S. in 1927 J. D. DGN
<u> </u>	Bradley Creek	Moore I'mlet approved by D.G.N. Nov. 26, 1935			/
	Money Point	7.7. W. 7.7.7. W		l	
	Mary Island	11		,	
•	Hewlet Creek	Hq.		L	
	Holland Point	Net		u	
	Masonboro Inlet	M		-	
	Wrightsville Beach	15		V	
,	Masonboro	Part of Massonboro Se		V	
	Greenwille Hound	Portion should be changed		same .	
	Purviance Creek	Todd Creek		-	
	Masonboro Sound	Same		j,	
3	Silver Lake			J	
	Peden Point	5amc		t	
•	John Creek	. Ner	,	ŭ	
	Dick Bay	41		l.	/
•	Myrtle Sound	ИΚ		i	/
		3 <u>€</u> 1 <u>→</u>			(M-136)

Survey No.	T 5042	
Chart No	425	

GEOGRAPHIC NAMES

Mar 20,1935

Names underlined in red approved March 21, 1935

Diagram No. 1235

Approved by the Division of Geographic Names, Department of Interior. **

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Pickett Rock	Picket Rock		V	
	Everett Creek	Everet Creek			
4					
		,			
<u> </u>					
				1	
<u>4</u>					
			&		(M-i36)

T 5042 Supplemental Bn 44, hight 42 and the his Engineer Stations north of fat 340 14' have been transferred from graphic control survey T 4761, 1933. on T4761 as & Bm 42. Division of gradery Eannot furnish a position 12/3/35. Light House Notice to marines #34, 1935 Itales Bn. has been lighted but does not indicate any change in position. o mason low longe white Ho. Cupula tot 34010' has been transferred from Which is at the in existence as evidenced . by sexamination of photos Object is whown on T4248 1926 as Dutotion - but godeny connot fund a position - This information supplied to contographer - prior to filing this implemental and inot made implied for chart letter of this time