4689

4689

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., *Director*

State: North Carolina

DESCRIPTIVE REPORT

~~*Topographic*~~
Hydrographic } *Sheet No.* F 4689

LOCALITY

Wilmington - Offshore

New River Inlet to Wrightsville

Inlet

1927

CHIEF OF PARTY

K. T. Adams

4689

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "F"

SHEET "F"

Date	Letter	Volume	Positions	Soundings	Miles, (stat)	Ship.
June 24, 1927	A	1	16	75	9.5	LYDONIA
" 25	B	1	135	607	68.8	"
" 26	C	1	28	126	14.9	"
" 27	D	1	116	530	61.0	"
" 28	E	1	75	451	44.0	"
" 28	E	2	29	132	19.9	"
" 29	F	2	127	561	72.7	"
Sept. 2,	G	2	55	262	31.2	"
" 3,	H	2	120	549	67.0	"
" 11,	J	2	19	93	12.0	"
" 11	J	3	88	293	50.1	"
" 12	K	3	22	93	9.4	"
" 13	L	3	63	303	36.5	"
" 22	M	3	37	169	16.9	"
Oct. 7,	N	3	88	375	53.1	"
	Totals:		1,018	4,619	567.0	

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

June 18, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4689

Wilmington, North Carolina - Offshore

Surveyed in 1927

Instructions dated July 31, 1926 and July 13, 1927 (LYDONIA)

Chief of Party, K. T. Adams.

Surveyed by K. T. A.

Protracted and soundings plotted by H. A. Paton.

Verified and inked by F. B. Kelly.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of development fulfill the requirements of the General Instructions.

3. The plan and extent of the survey satisfy the specific instructions with the exception that a 1:60,000 scale sheet was used instead of a 1:40,000. However, according to information from the Chief of Party, the scale of 1:60,000 was adopted after a verbal conference with the Chief of Field Work who acquiesced in this decision.

4. The information is sufficient for drawing the usual depth curves.

5. The usual field plotting was done by the field party and was very satisfactory.

6. The junction with the contemporary survey, H. 4696, is adequate.

   The junctionswith the other contemporary surveys will be taken up when those sheets are completed.

   The junction with the 1923 survey (H. 4306) is satisfactory.

The soundings on the chart within the area covered by this sheet are taken from H. 884, surveyed in 1866. No comparison was made with this sheet. The elapsed period is too long and the dead reckoning method for locating soundings was used.

7. A 68 foot sounding at pos. 76 B in lat. 34° 06', long. 77° 25' is questioned in the sounding record. It would appear that an error may have been made in recording or in reading the leadline. However, since there are several other instances on the sheet where adjacent soundings differ by 4 to 6 feet, it is recommended that this sounding be retained.

8. Character and scope of surveying - excellent.
Field drafting - excellent.

9. Reviewed by A. L. Shalowitz, March, 1928.

Approved:

_____
Chief, Section of Field Records (Charts)

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

T. 211.

1 Copy for Records files.

January 3, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 4689

Locality: COAST OF NORTH CAROLINA

Chief of Party: K. T. Adams, 1927.
Plane of reference is M L W
1.3 ft. on tide staff at Cape Lookout (Sept. 1926)
3.3 " " " " " " " (July, 1927)

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

H. A. Marmer
Chief, Division of Tides and Currents.

H - 4689

See also

1 c. - Cuts for Buoy
location - 1927 - Adams

(865
SHS
4750
1927
A) Cape Lookout -
Wilmington -
Bogue Banks -
Offshore -

3/24/28
EC

Form 537
11—4812

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

4689

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. F 4689

State . . . . . North Carolina.

General locality . . . ~~Atlantic Coast.~~ Wilmington, Offshore

Locality . . . . . New River Inlet to Wrightsville Inlet, ~~N.C.~~

Chief of party . . . . K. T. Adams, ...

Surveyed by . . . . . K. T. Adams, ...

Date of survey . . . . June 24, 1927 to October 7, 1927. . .

Scale . . . . . 1 - 60,000 . . . . . .

Soundings in . . . . . Feet . . . . . .

Plane of reference . . Mean Low Water. . . . . .

Protracted by H.A.P. . . . Soundings in pencil by H.A.P. .

Inked by . . . . . Verified by . . . . . .

Records accompanying sheet (check those forwarded):

Des. report, ... Tide books, ... Marigrams, 1 Boat sheets,

3 Sounding books, ... Wire-drag books, ... Photographs.

Data from other sources affecting sheet . . . . . .

Remarks:

Off-shore buoy control sheet.

D E S C R I P T I V E R E P O R T

t o a c c o m p a n y

HYDROGRAPHIC SHEET "F"

1. This hydrographic sheet was accomplished in compliance with instructions dated July 31, 1926 and July 13, 1927. The actual hydrography was completed between the dates of June 24 and October 7, 1927.

2. This sheet covers an area about eight or nine miles wide just offshore from the outer limits of hydrographic sheets "D" & "E".

3. For general description of the coast and landmarks, refer to my descriptive reports accompanying hydrographic sheets D & E.

4. The entire area was surveyed by hand lead soundings, lines being run N. W. & S. E. forming a junction on the inshore ends with the area surveyed on sheets D&E. The control was fixed positions on buoys, which had been cut in from shore objects.

5. Locations of Buoys. The buoys on this sheet were located by the usual methods, i.e., by sextant cuts taken from the ship which was located by fixed positions from shore signals. However, the plotting of these cuts was done on an aluminum plate. A very careful projection was made on this plate and the shore signals plotted, then all cuts were plotted and the locations of the buoys were scaled by d.m.s. and d.p.s. from the plate. These locations therefore were used thereafter on both boat sheet and smooth sheet. No cuts were plotted on the smooth sheet.

This method has the advantage, that once a projection is made it holds true, and can be used months later with the assurance that it has not changed. If the shore signals have been located carefully and the projection accurately made, no trouble will be encountered in making the cuts check.

Respectfully submitted,

K. T. Adams

K. T. Adams,
H. & G. Engineer,
Commanding Str. "Lydonia".

Location of Buoys as Scaled from Aluminum Plate.

S H E E T " F "

		meters	
ABLE	34° 00'	—339.0	
	77° 37'	+ 480.0	
BOY	34° 03'	— 948.0	
	77° 34'	+ 2473.7	
	77° 37'	— 2143.9	
CAT	34° 03'	+ 3763.8	
	34° 06'	- 1782.2	
	77° 34'	— 336.0	
DOG	34° 06'	+2912.2	
	34° 09'	-2633.9	
	77° 31'	+1381.3	
	77° 34'	-3230.9	
EGG	34° 09'	+ 1239.8	
	34° 12'	- 4306.3	
	77° 28'	+ 1978.0	
	77° 31'	— 2632.4	
FOX	34° 09'	+4893.3	
	34° 12'	- 652.8	
	77° 25'	+ 2404.1	
	77° 28'	— 2206.3	

		meters
FIR	34° 09'	+ 5495.1
	34° 12'	- 51.0
	77° 25'	+ 1848.8
	77° 28'	- 2759.8
GO	34° 13'	+ 1301.2
	34° 16'	- 4245.0
	77° 21'	+ 4099.6
	77° 24'	- 507.2
HAT	34° 13'	+ 3481.7
	34° 16'	- 2064.5
	77° 18'	+ 4224.8
	77° 21'	- 381.1
INK	34° 16'	+ 396.4
	34° 19'	- 5149.8
	77° 15'	+ 3884.4
	77° 18'	- 720.6
JOE	34° 16'	+ 2864.6
	34° 19'	- 2681.6
	77° 12'	+ 3521.7
	77° 15'	- 1081.2
KIT	34°19'	+ 66.0
	34° 22'	- 5480.2
	77° 06'	+ 3212.7
	77° 09'	- 1389.3
LEE	34° 19'	+ 2773.4
	34° 22'	- 2773.4
	77° 06'	+ 3056.9
	77° 09'	- 1545.1

LIST OF PERMANENT OBJECTS

Objects	Latitude	D M meters	Longitude	D P meters	HEIGHT	Remarks
Wrig	34° 12'	77.0	77° 48'	131		High black water tank Wrightsville Beach.
Tree	34° 22'	1243.0	77° 40'	841		Large distinctive tree; small tree to south.