

4750

Diag. Ch. No. 1234-2 & 1001-2

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

State: North Carolina

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. J 4750

LOCALITY:

Cape Lookout

~~Off Bogue Banks Offshore~~

194 27

CHIEF OF PARTY:

K. T. Adams.

4750

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "J"

1. This hydrographic sheet was accomplished in compliance with instructions dated July 31, 1926. The completed sheet was surveyed between the dates October 11, 1927 and November 30, 1927.
2. General Description of the Coast. Refer to my descriptive report for hydrographic sheet "G".
3. Currents. The currents ~~is~~ within the limits of this sheet are slight and may be disregarded. Except, that a slight indication of a prevailing easterly set was experienced over the northeastern area.
4. There are no landmarks, inlets or inshore dangers on this sheet. For these, refer to my descriptive report for hydrographic sheet "G".
5. Limits. This area comprises the work to seaward adjoining sheet "G" and to the northeastward from sheet "F" and embraced an area about nine or ten miles wide to an eastern limit in longitude 76-47.
6. Anchorage. Vessels may anchor over the entire area, although the holding bottom is rather poor. There are no protected anchorages.
7. This entire area was surveyed by fixed positions taken on floating buoys. These buoys were about fourteen or fifteen miles offshore and in a row about three miles apart and parallel to the shoreline. They were located by sextant cuts, taken from the vessel stopt but not anchored. These cuts were plotted on a projection on an aluminum sheet and the positions scaled in d.m.s and dp.s from the sheet. These positions were used for both boat sheet and smooth sheet.

Several short lines are needed in the northeastern portion of the area for completion. These lines should be run by the party resuming field work in this area.

Respectfully submitted,

K. T. Adams
K. T. Adams,
Commanding Officer,
U.S.C. & G.S.S. Lydonia.

TABLE OF STATISTICS

SHEET "J"

DATE	LETTER	VOLUME	POSTIONS	SOUNDINGS	(statute) MILES	SHIP
Oct. 11, 1927	A	1	37	172	13.8	Lydonia
Nov. 11, 1927	B	1	62	273	32.04	Lydonia
Nov. 12, 1927	C	1	63	280	32.0	Lydonia
Nov. 15, 1927	D	1	60	263	32.7	Lydonia
Nov. 16, 1927	E	1	50	218	25.5	Lydonia
Nov. 18, 1927	F	1	33	151	18.8	Lydonia
Nov. 26, 1927	G	1	55	246	29.5	Lydonia
Nov. 27, 1927	H	2	63	281	32.8	Lydonia
Nov. 28, 1927	J	2	64	270	31.0	Lydonia
Nov. 29, 1927	K	2	68	304	35.4	Lydonia
Nov. 30, 1927	L	2	86	399	44.9	Lydonia
TOTALS			641	2757	328.4	

Area surveyed in square statute miles - 221.4

LIST OF SIGNAL BUOYS

Sheet "J"

Object	Latitude	D. P.	Longitude	D. M.	Remarks
Kit	34-19	66	77-09	3219	
Lee	34-19	2781	77-06	3051	
May	34-22	765	77-03	2736	
Man	34-22	612	77-03	2367	
Not	34-22	3723	77-00	2208	
Owl	34-25	294	76-57	1794	
Pat	34-25	1686	76-54	858	
Quo	34-25	2649	76-48	4533	
Rat	34-25	3211.5	76-45	3465	
Sun	34-25	3600	76-42	2509.5	

N. B. The above locations were scaled from the aluminum plate upon which were plotted the cuts locating them.

Copy for Record Section files.

11

March 26, 1928.

J.H.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

2

HYDROGRAPHIC SHEET

4750

Locality:

COAST OF NORTH CAROLINA.

Chief of Party:

Plane of reference is K. T. Adams, 1927.

ft. on tide staff at L W

1.3

Capo Lookout.

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.

Chief, Division of Tides and Currents.

Report on H 4750

May 10.
1928

Chief of Party - K.T. Adams
Survey by - K.T. Adams
Projected and Permitted by - H.V. Oliver
Verified and Indexed by John G. Ladd

1. The records conform to the requirement of the general instruction.
2. The plan and character of development fulfilled the requirement of the general instruction.
3. There are no sounding line crossings except at one place and the difference is 5 fathom feet.
4. No depth curves could be drawn as all the work lies between the 50 and 100 fathom mark.
5. The field plotting was complete to the extent prescribed in the general instruction.
6. The field drafting was very well done.
7. The junction with adjacent sheet is satisfactory.

John G. Ladd
jr. Capt. C. G.

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

August 11, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4750

Cape Lookout, North Carolina; Bogue Banks - Offshore

Instructions dated July 31, 1926 (LYDONIA)

Chief of Party, K. T. Adams.

Surveyed by K. T. A.

Protracted and plotted by H. J. Oliver.

Verified and inked by J. G. Ladd.

1. The general and specific instructions were complied with in general. The only exception was the using of a 1:60,000 projection when the specific instructions called for a 1:40,000 scale. However, the spacing requirements were complied with.
2. The records were well kept and fairly neat.
3. No additional work is necessary to fully develop the area except one split line which should be run near the northeast corner of the work when operations are resumed in this locality.
4. Field drafting was good. Surveying, excellent. Office drafting, good.
5. A new method of locating the buoys was used on this sheet which seemed to be an improvement over the old methods. The cuts to the offshore buoys were plotted on an aluminum sheet. The latitude and longitude of the intersections were scaled. Then the positions could be transferred to the boat or smooth sheet without the distortion of the original sheet entering into the location of them as has previously been the case. No "jumps" were noticed when changing signals.
6. Reviewed by W. M. Gibson, May 15, 1928.

Approved:

Chief, Section of Field Records (Charts)

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

SHEET "J"

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. **4750**

4750

State . . . **North Carolina**

General locality . . . ~~Atlantic Ocean~~ **Cape Lookout**

Locality ~~Off Bogue Banks - Off shore~~

Chief of party . . . **K. T. Adams, H. & G. Engineer.**

Surveyed by . . . **K. T. Adams, H. & G. Engineer.**

Date of survey . . . **October 11, 1927 - November 30, 1927**

Scale **1:60,000**

Soundings in **Feet**

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

Protracted by **H. J. Oliver** Soundings in pencil by **H. J. Oliver.**

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, ~~Tide books,~~ ~~Manigrams,~~ **1** Boat sheets,
1 Buoy Location Cut Book,
~~2~~ Sounding books, ~~Wire drag books,~~ ~~Photographs.~~

Data from other sources affecting sheet

Remarks: **Off shore buoy sheet.**