4324

Diag. Cht. No. 1236-1

Treasury Department,
U. S. COAST AND GEODETIC SURVEY.

E. Lester Jones
~~Superintendent.~~
Director

State: North Carolina

DESCRIPTIVE REPORT.

Hydrographic *Sheet No.* 4324

LOCALITY:

Cape Fear
~~Oak Island.~~

West of Oak Island
~~vicinity of Cape Fear~~

~~scale 1-20,000~~

~~motor sailer~~

1923

CHIEF OF PARTY:

A.M.Sobieralski, H.& G. Eng'r

4324

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

to accompany

HYDROGRAPHIC SHEET 22.

Season 1923.

U.S.S.LYDONIA — A.M.Sobieralski, Commanding.

This sheet is a continuation of the work executed on Sheet 21. A description of the organization, system of lines, launch, leadline, cost, etc. is given in the decriptive report of that sheet. It is thought unnecessary to duplicate those details in this report, as this work was done with the same party and in the same manner, using Southport as headquarters.

Work was begun on October 1, 1923, and completed October 17.

The majority of the breezes occurring during the period of this work were from the north and northeast. The area surveyed was, therefore, rather well protected.

Signals were built by the launch party. Some "A" stations established by the traverse party in the spring of 1923 were recpvered and signals erected over them. A few of the remaining signals were located by taping between two traverse stations. The record of these measurements is in the custody of the commanding officer of the Launch MIKAWE, who helped in the recovery of the stations and in the location of the last few named. The remainder of the signals were located by sextant cuts taken from various anchorages of the launch. These cuts are recorded in an angle record which accompanies this sheet. A list is attached to this report giving names of all signals used and in what manner they were located.

The work was carried sufficiently far to the westward so that in any subsequent work, headquarters for the launch can be established at Shallotte Inlet. Lockwoods Folly does not appear to be feasible for quartering a party on account of the shifting nature of the entrance and the difficulty in obtaining supplies. It is probable, on account of seasonal breezes, that this subsequent work can only be done in the late summer or fall.

The coast, between the limits of this sheet, runs in an easterly and westerly direction. The beach is flat and wooded. There are no prominent landmarks or distinguishing features. The bottom slopes evenly and rather steeply from the beach to the three fathom curve and then becomes quite flat. A single check line agreed very well with the soundings it crossed. No shoals or other places requiring development were found.

Respectfully submitted:

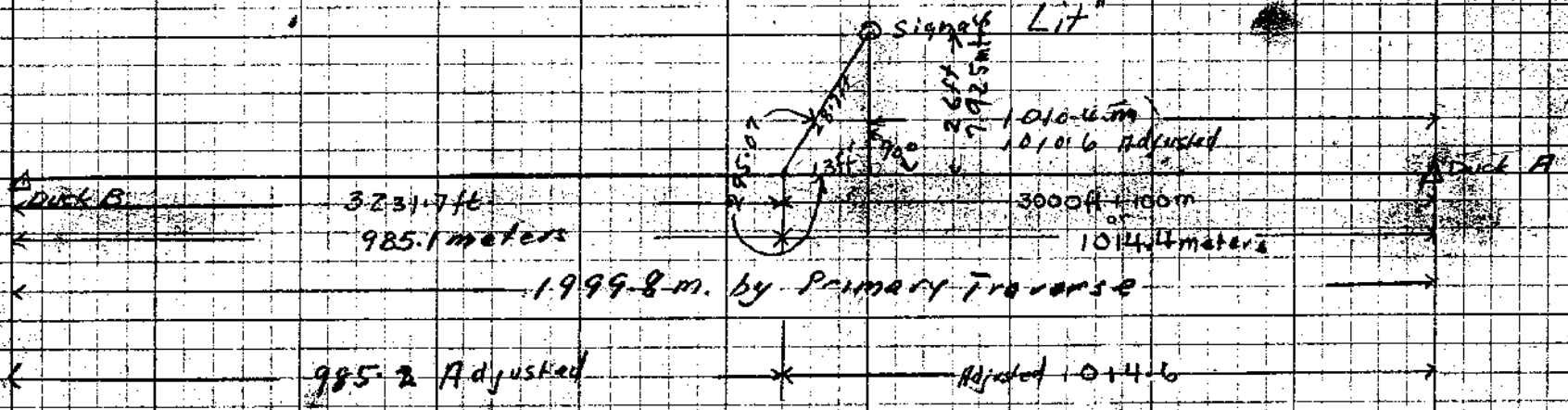
R.F.A.Studds,
Jr. H & G Eng'r.,
U.S.C. & G.Survey.

HYDROGRAPHIC SIGNALS FOR SHEET 22.

SIGNALS	HYDROGRAPHIC NAME	HOW LOCATED	HOW MARKED
Iron water tank Fort Caswell.	Iron	Triangulation (1923)	Natural Object
Coast Guard cupola.(1923)	Wil	" "	" "
Yellow tower.	Tow	Hydrography	" "
Tall hydrographic signal.	Oak	Triangulation (1923)	Standard Mark
Duck.	Duck	" "	" "
Duck A.	Kin	" "	Temporary
Small hydrographic signal.	Lit	Precise traverse intermediate stake	"
Duck B.	Mat	Triangulation (1923)	"
Small hydrographic signal.	Nix	Hydrography	"
" " "	Old	Hydrography	"
" " "	Put	Hydrography	"
" " "	Que	Hydrography	"
Tall hydrographic signal.	Fen	Triangulation (1923)	Standard Mark
Small " "	Run	Hydrography	Temporary
" " "	Sal	Hydrography	"
" " "	Try	Hydrography	"
Fence "C".	Who	Triangulation (1923)	"
Lock.	Lock	Triangulation (1923)	Standard Mark
Southport water tank.	Sot	Triangulation (1923)	Natrual Object

Note: Signals located by topography are shown on the topographic sheet of the launch "Mikawe".
Signals located by hydrography are given in an angle record which accompanies the records of this sheet.
For Location of ⊙ Lit see Descriptive Report

Data for Location of ○ Lit
Hyd. Sheet #22



STATISTICS SHEET NO. 22

VOL.	1923 DATE	MILES	SOUNDINGS	POSITIONS	ANGLES	LETTER DAY
1	Oct. 1	15.5	461	99	198	a
1	Oct. 2	20.1	579	123	246	b
1&2	Oct. 4	18.8	537	124	245	c
2	Oct. 5	9.8	264	63	125	d
2	Oct. 11	8.0	203	45	89	e
2&3	Oct. 15	18.4	453	115	228	f
3	Oct. 16	2.1	57	14	28	g
3	Oct. 17	2.8	87	21	42	h
TOTALS--		95.5	2641	604	1201	

TIDAL-SHEET
to
accompany

HYDROGRAPHIC SHEET NO. 22

Locality of gage, -- - - - - - - - - - - - - - - - - -Fort Caswell.

Type of gage, -Automatic.

Reading of gage for M.L.W.- - - - - - - - - - - - - - -5.0 ft.

Highest tide observed- - - -- - - - - - - - - - - - - -June 27, 1924
7:00 P.M.

Gage reading:- - -- - - - - - - - - - - - - - - - - -10.8

Lowest tide observed-- - - - - - - - - - - - - - - - -October 12, 1924
3:00 A.M.
October 13, 1924
4:00 A.M.

Gage reading:- - - - - - - - - - - - - - - - - - - --4.0

Note: Gage readings increased 1/10 of range for tide reducers.

Time: 20 minutes earlier.

Report on Verifying and Inking H. 4324

The protracting, plotting and field drafting were well done. The sheet is complete within the surveyed area. The records are good.

Frank M. Albert
Draftsman Section of Field Records.

Apr. 5, 1924

E.C.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND REFER TO No. 4-DFM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

May 1, 1924.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4324

Vicinity of Cape Fear, N. C.

Surveyed in Oct., 1923

Instructions dated May 7, 1923.

Chief of Party, A. M. Sobieralski.

Surveyed by R. F. A. Studds.

Protracted by H. J. Petersen

Soundings plotted by E. M. Denbo.

Verified and inked by F. M. Albert.

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

2. The plan and character of development conform to the General Instructions.

3. The plan and extent of development satisfy the specific instructions.

4. The sounding line crossings are adequate.

5. The usual depth curves can be drawn.

6. The field plotting was completed to the extent prescribed in the General Instructions.

7. The junction with H. 4313 is adequate. The other sheet H. 4323 joining this sheet has not yet been verified.

8. No further work will be required within the survey limits of this sheet.

9. Rating of work (Character and scope of surveying-excellent.
(Field drafting-excellent.

Reviewed by A. L. Shalowitz, April, 1924.

March 25, 1924

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 4324

Locality: Off Cape Fear, North Carolina.

Chief of Party: A. M. Sobieralski in 1923
Plane of reference is mean low water reading
5.0 ft. on tide staff at Ft. Caswell

For reduction of soundings, 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.

Form 537
11—3812

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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. 224324

State . North Carolina . . . . . .

General locality . . Cape Fear. . . . . .

Locality . . . West Of F. Oak Island. . . . . .

Chief of party . . . A. M. Sobieralski. . . . . .

Surveyed by . . . . R. F. A. Studds. . . . . .

Date of survey . . . October 1923. . . . . .

Scale . . . . . 1:20,000 . . . . . .

Soundings in . . . . feet . . . . . .

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

Protracted by H. J. Petersen. Soundings in pencil by E. M. Denbo.

Inked by . F. M. Albert. . . Verified by F. M. Albert . . .

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 . . . . . .

1 Angle book, cuts on signals

Remarks: