

8246

(R E C.)

Diag. Cnt. No. 1001-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PBS - 4855 Office No. H-8246 (Rec.)

LOCALITY

State North Carolina

General locality Atlantic Ocean

Locality Reconnaissance Hydrography off Cape

Lookout

194/55

CHIEF OF PARTY

John C. Mathisson

LIBRARY & ARCHIVES

DATE October 4, 1955

B-1870-1 (1)

8246

(R E C.)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8246

Field No. PBS-4855

State North Carolina

General locality _____

Locality Reconnaissance Hydrography off Cape Lookout

Scale 1:40,000 Date of survey September 1, 1955

Instructions dated Letter of 20 July 1955 (Ref. 22) MEK Proj 1377

Vessel PARKER, BOWEN, and STIRNI

Chief of party John C. Mathisson

Surveyed by Ship's Officers

Soundings taken by fathometer, ~~grapho-recorder, hand lead, etc.~~

Fathograms scaled by Ship's Officers

Fathograms checked by Not checked

Protracted by Ship's Officers

Soundings penciled by _____

(No reducers applied)

Soundings in fathoms ~~XXXXXXXXXXXXXXX~~

REMARKS: Reconnaissance lines largely controlled by dead

reckoning. Boat sheet used as smooth sheet

942.

23
RECEIVED
MAIL ROOM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS:

Ships PARKER, BOWEN & STIRNI

TELEGRAPH ADDRESS:

22 3 PM 1955
General Delivery
Morehead City, N. C.

EXPRESS ADDRESS:

21 September 1955

TO: ~~COAST AND GEODETIC SURVEY~~
COAST AND GEODETIC SURVEY
WASHINGTON 25, D. C.

File in Coastal Surveys Division

SUBJECT: RESULTS OF SEARCH FOR SUBMARINE CANYON.

Under S-1-P55

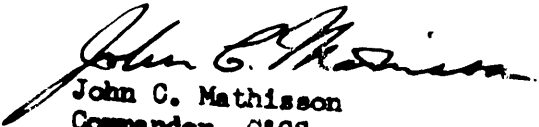
There are being transmitted to you under separate cover, two boat sheets and one tracing paper over-lay showing reconnaissance hydrography covering an area to the southeast of Cape Lookout, N. C. where the existence of a submarine canyon had been reported and this survey made in accordance with your letter of 20 July 1955 (Ref. 22/MEK).

The canyon was not found in the area searched. The origin of the report of the canyon was from Dr. William E. Fahy, Chief, Finfish Investigation, University of North Carolina Institute of Fisheries Research who had some information that the U. S. Fish & Wildlife Service vessel ALBATROSS III crossed a canyon and obtained fathograms during a cruise in January or February 1950. The area was covered sufficient to disprove the existence of a canyon and it is probable that the soundings obtained by the ALBATROSS III were at the edge of the continental shelf where it breaks into deep water and at places along the North Carolina Coast the bottom is very irregular. A sample of this irregular bottom is shown on the fathogram obtained by the Ship PARKER between positions 22 to 26.

Control used was Shoran to the limit of reception and then dead reckoning was used beyond. The ends of the lines were tied-in to Shoran control and adjustments made for the closing error which were relatively small for all three Ships and it is believed that very good positions were obtained for all soundings shown on the three sheets.

Soundings were reduced for predicted tide at Cape Lookout but no fathometer corrections were applied. Soundings are in fathoms.

Under separate cover there is also being transmitted sounding volumes and fathograms covering this investigation.


John C. Mathisson
Commander, C&GS
CO. Ships PARKER-BOWEN-STIRNI

H-8246 (1955)

Reconnaissance Survey off Cape Lookout, North Carolina,
Submarine Canyon Investigation

Because of the reconnaissance nature of the hydrography no corrections were applied to soundings, no verification was made, and no review was written. No Descriptive Report was submitted.



R. H. Carstens
Chief, Hydrographic Section

10 November 1955

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 246 (Rec.)

Records accompanying survey:

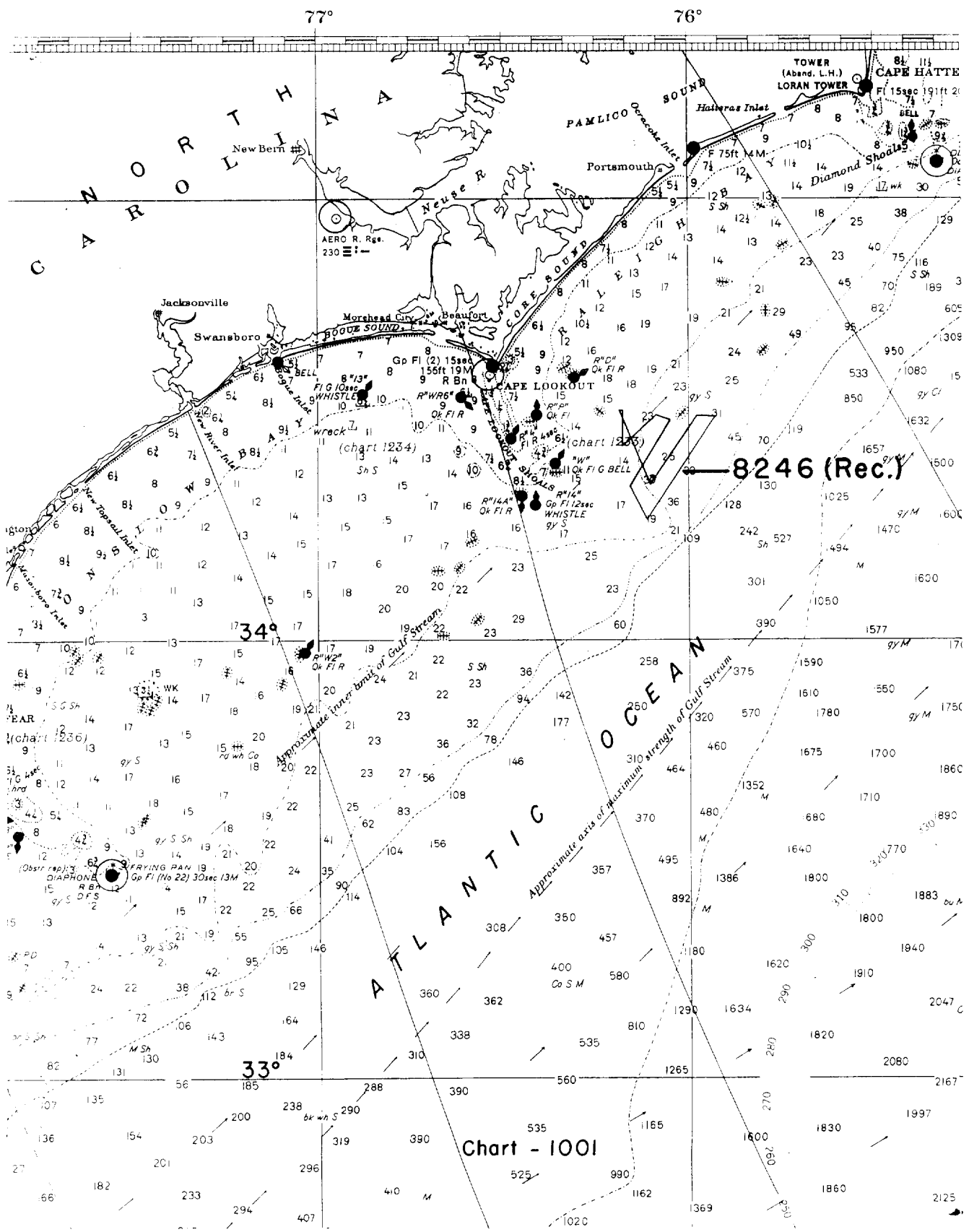
Boat sheets 2...; sounding vols. 3...; wire drag vols.;
 bomb vols.; graphic recorder rolls 1-Env...;
 special reports, etc. 1-Overlay Tracing And 1-Descriptive report....
 ..(Boat sheet of ship Bowen will serve as the smooth sheet.).....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		<u>252</u>
Number of positions checked		<u> </u>
Number of positions revised		<u> </u>
Number of soundings revised (refers to depth only)		<u> </u>
Number of soundings erroneously spaced		<u> </u>
Number of signals erroneously plotted or transferred		<u> </u>
Topographic details	Time	<u> </u>
Junctions	Time	<u> </u>
Verification of soundings from graphic record	Time	<u> </u>

Verification by D. J. Kennon.....Total time 20..... Date 11-4-55

Reviewed by No review..... Time Date



NAUTICAL CHARTS BRANCH

SURVEY NO. 8246 (Rec.)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3-26-56	1110	H.E.M.	* Examined. Nothing applied a/c gam in reproduction. Before After Verification and Review
7-10-56	1001	H. Benson	Before After Verification and Review No review will be made fully applied
11-14-57	1233	R.K. DeLander	Before After Verification and Review Comp. Appl.
5-18-60	1110	Earl M. Boger	Before After Verification and Review Comp Appl (compared with 1233) Selection made out of copy by FMA 3-29-56 Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

* No verification nor review to be made.

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.