8564

Diag.Cht.No. 1234-2.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey ....Hydrographic.....

Field No. .....GI-05-1-60.....

Office No......H-8564.....

LOCALITY

State .....North Carolina.....

General Locality ....Beaufort Inlet.....

Locality .....Off Atlantic Beach.....

.....

19 60

CHIEF OF PARTY

.....K.A. MacDonald.....

LIBRARY & ARCHIVES

DATE .....Jan.13, 1961.....

☆ U.S. GOV. PRINTING OFFICE: 1976—669-441

8564

Form 537
(Ed. June 1946)

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-8564

Field No. GI-05-1-60

State North Carolina

General locality Beaufort Inlet

Locality Off Atlantic Beach

Scale 1:5,000 Date of survey ~~Oct. and Nov. 1960~~ 10/26/60 - 12/2/60

Instructions dated 6 September 1960; 222/MEK, S-2-GI

Vessel Launch CS-1176

Chief of party K.A. MacDonald

Surveyed by D.D. Harper & J. Collins

Soundings taken by fathometer, ~~graphic recorder~~, hand lead, ~~wire~~

Fathograms scaled by Ship GILBERT personnel

Fathograms checked by Ship GILBERT personnel

Protracted by R.D. Lynn

Soundings penciled by R.D. Lynn

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ and are true depths.

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 16—66520-1

Notes to Accompany

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

HYDROGRAPHIC SURVEY H-8564 FIELD No. GI-05-1-60

BEAUFORT INLET, NORTH CAROLINA

1960 FIELD SEASON SCALE 1:5,000

USC&GS Ship G I L B E R T
Lt. Kenneth A. MacDonald, Comdg.

SURVEYED BY: Doyle D. Harper, Lt.jg, C&GS

A. PROJECT

Project 10000-820, Vicinity of Beaufort Inlet, North Carolina, Instructions 222/MEK, S-2-GI, dated 6 September 1960.

B. SURVEY LIMITS AND DATES

The survey is off Atlantic Beach, N.C., between longitudes 76° ~~41' 00"~~ 40' 51" and 76° 43' ~~00"~~ 06"; from the low water line south to a line joining the positions latitude 34° 40' 30", longitude 76° 43' 00", and latitude 34° 39' 30", longitude 76° 41' 00".

The survey covers a portion of the area covered by survey H-7963, scale 1:12,500, 1953, and a junction was made with contemporary survey H-8565 on the east.

Field work began 26 September 1960, and ended 2 December 1960. (1960)

C. VESSEL AND EQUIPMENT

All hydrography was done with launch CS 1176, which operated from the Ship GILBERT in Beaufort. At the sounding speed used of about 4½ knots, the launch has a turning radius of about 30 meters. An 808 type fathometer was used. Number 162 SPX was used throughout, except for "j" day, when number 159 SPX was used. The fathometers were calibrated for 820 fathoms/second.

D. TIDE AND CURRENT STATIONS

The standard gage at Morehead City was leveled and inspected for satisfactory operation before beginning the survey.

A portable gage already installed by the U.S. Engineers on the Triple Ess fishing pier, Atlantic Beach, was maintained during the survey. All tide reducers were scaled from the Atlantic Beach gage, with no time or height corrections applied.

All bench marks in the vicinity of the portable gage had been destroyed, necessitating setting of new marks, and establishing a datum from 10 days of observations. See letter from Acting Chief, Marine Data Division, 2221 461 - 982gi, 28 October 1960.

E. SMOOTH SHEET

The smooth sheet projection was made in the Washington office by ruling machine. Shoreline and signals were transferred from topographic sheet T-7138, (1960) and verified in accordance with section 757, hydrographic manual. The smooth sheet was plotted as the hydrography progressed.

F. CONTROL STATIONS

All control is on the N.A. 1927 datum.

Triangulation stations are as follows.

GAR, FLP, 1927, r. CRR, 1952
FORT MACON COAST GUARD CUPOLA, HO, 1933, r. RJS, 1949
FORT MACON C. G. STATION 191, CUPOLA, CRR, 1952
MOREHEAD CITY WATER TANK, JBB, 1913, r. CRR, 1952
MOREHEAD CITY PORT TERMINAL WATER TANK, HCA, 1933, r. CRR, 1952
MOREHEAD CITY RADIO STATION WMBL, TOWER, RJS, 1948
PLAN, KAM, 1960
FORT MACON, 1850-1913 (noted by chief of party)

Topographic stations are as follows.

Ana, three pt. theodolite fix, 1960
Ace, T-7138, 1960
Cod, T-7138, 1960
Gin, T-7138, 1960
Gun, T-7138, 1960
Ice, T-7138, 1960
Jap, T-7138, 1960
Pep, T-7138, 1960 (not used)

Hydrographic stations are as follows.

Bag
Dog
Eat
Fox
Hut
Kid
Log
Mid
Nub
Ora

The hydrographic stations were originally located by planetable on T-7138 (1960), however, after beginning hydrography it became evident some of the control was bad. Sextant cuts were taken from the launch anchored offshore, and were combined with theodolite cuts from PLAN, 1960, and a three point theodolite fix at DUNES (USE), to correct the planetable positions. These cuts were plotted on the smooth sheet. The positions on T-7138 (1960) have not been corrected.

Circles of equal angles were constructed on the boat sheet to facilitate plotting on the offshore portion where the protracter would not reach the signals. The fix used in connection with these circles was Ana, Gin, Cup. After the position of Gin was found to be in error on the topographic sheet, a new signal, Gun, was constructed at the erroneous position of Gin, so that the circles could be used as plotted on the sheet. The positions of Gin and Gun on T-7138 (1960) are good, and were obtained by distance and direction from the three point theodolite fix at DUNES (USE)

G. SHORELINE AND TOPOGRAPHY

Shoreline and topography are from T-7138 (1960). No shoreline revisions were made by the hydrographic party.

The low water line was not completely delineated due to a combination of a small tide range, and heavy surf on the exposed beach.

H. SOUNDINGS

Depths were measured by 808 type fathometers, ~~sounding pole~~ and leadline.

Velocity corrections were computed from bar checks taken daily, sea conditions permitting. These corrections were computed and applied day by day, in order to keep the records up to date for the smooth plotter. The crossings on the smooth sheet are very good, proving this method acceptable, even though the corrections varied considerable on some days.

The initial setting was maintained at one foot throughout. R.P.M. checks were made daily on the fathometer, and reed tachometers were checked frequently to insure operation at the calibrated speed. All sounding was done on the "A" scale. *see Review Report Part A*

Predicted tides varied greatly from actual tides, probably due to prevailing southerly winds. This caused poor crossings and erroneous depth curves on the boat sheet. After final reducing of soundings, crossings on the smooth sheet are good, and depth curves can be adequately drawn.

I. CONTROL OF HYDROGRAPHY

All hydrography was controlled by three point sextant fixes.

K. CROSSLINES

About 8% crosslines were run. All crossings are good.

L. COMPARISON WITH PRIOR SURVEY AND CHART

Comparison with chart 423 (1963 (1953-A3)) is identical with the comparison with prior survey H-7936, both being at 1: 12,500 scale. These comparisons show extensive changes in the shoal area in the northeast portion of the survey. Depth curves from the new survey are shown on a chart section which is enclosed with the smooth sheet.

N. DANGERS AND SHOALS

A least depth of 3 feet, position 2"j", was found on a shoal in latitude 34° 41' 18", longitude 76° 41' 12". All shoals and dangers were found the same as, or shoaler than those charted. — *shoals have been displaced and in some instances present depths were not as shoal as previously recorded. However present survey is adequate to supersede prior survey in the common area.*

O. COAST PILOT INFORMATION

No changes were recommended for the Coast Pilot within the area of this survey.

P. AIDS TO NAVIGATION

There are no floating aids in the survey area, fixed aids are reported on form 567.

Z. TABULATION OF APPLICABLE DATA

1. Boat sheet H-8564	To be forwarded
2. Smooth sheet H-8564	"
3. Fathograms "a" through "j" days	"
4. Sounding volumes	"
5. Tide station report and level records, Atlantic Beach gage	Forwarded 13 Oct. & 22 Dec. 1960

Z. TABULATION OF APPLICABLE DATA, (Continued)

6. Tide station report and level record, Morehead City gage	Forwarded 13 Oct. 1960
7. Marigrams, Atlantic Beach gage	Forwarded 19 Oct. & 19 Dec. 60
8. Tide reducers	To be forwarded
9. Horizontal control data	"
10. Topographic sheet H-7138 and report	"
11. Form 567, Landmarks	"

Submitted,
Kenneth A MacDonald
For.
Doyle D. Harper
LT.jg, C&GS

Approved and Forwarded

Kenneth A. MacDonald
Kenneth A. MacDonald
Lt., C&GS
Comdg., Ship GILBERT

TIDE NOTE

HYDROGRAPHIC SURVEY H-8564, 1960

BEAUFORT INLET, NORTH CAROLINA

USC&GSS GILBERT

A portable tide gage was maintained at Triple Ess fishing pier, Atlantic Beach, North Carolina, latitude 34° 41' 40", longitude 76° 42' 41".

Reducers from this gage were used for the entire survey, with no time or height corrections.

Mean low water corrosponds to 1.9 feet on the tide staff. This datum was computed from a short period of observations, see letter from Acting Chief, Marine Data Division, 2221-461 982gi, 28 October 1960.

STATISTICS

HYDROGRAPHIC SURVEY H-8564, 1960

LAUNCH CS-1176 PROJECT 10000-820

Day Letters	Volume	Date	Number of Positions	Nautical miles of Sounding
"a"	1	26 Oct. 1960	90	11.0
"b"	1	27 Oct. 1960	124	11.4
"c"	2	28 Oct. 1960	62	6.1
"d"	2&3	31 Oct. 1960	166	19.2
"e"	3	4 Nov. 1960	190	17.0
"f"	4	9 Nov. 1960	74	5.7
"g"	4	22 Nov. 1960	41	2.8
"h"	4	23 Nov. 1960	81	4.8
"j"	4	2 Dec. 1960	17	00.3
		TOTALS	845	78.3

TOTAL AREA OF SURVEY 2.5 Square Nautical Miles

ABSTRACT OF

VELOCITY CORRECTIONS

HYDROGRAPHIC SURVEY H-8564, 1960

BEAUFORT INLET, NORTH CAROLINA

Correction	a & b days	c day	d day	e & f days	g & h days	j day
0.6	36'-					
0.4	28'- 36'					
0.2	17'- 28'	27'-				
0.0	7'- 17'	0'-27'			0'-5'	0'-5'
-0.2	0'- 7'				5'-15'	5'-7'
-0.4			0'-20'	0'-27'	15'-40'	7'-12'
-0.6			20'-31'	27'-42'		12'-22'
-0.8			31'-40'	42'-		22'-30'
-1.0			40'-			30'-

Figures in day columns are depths in feet.
Corrections are in feet.

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8564 (Gi-05-1-60)

GENERAL

This survey was smooth plotted by R.D. Lynn of the Norfolk Office while on detached duty with Ship Gilbert.

He stated that no discrepancies were encountered during the smooth plot except for the control problems out-lined in paragraph "F". They were resolved by replotting all positions on "a" and "b" days. Soundings are in good agreement at crossings.

See the chart section being submitted to show radical depth changes inside the 18' curve.

Norfolk, Va.
6 Jan. 1961

Respectfully submitted,

Hugh L. Proffitt
Cartographer

Form 946

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8564

Records accompanying survey: Smooth sheets 1;

boat sheets 1; sounding vols. 4.; wire drag vols. .....;

Descriptive Reports 1.; graphic recorder envelopes 4;

special reports, etc. 1-Chart Section.....

.....

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

Number of positions on sheet		845
Number of positions checked		115
Number of positions revised		NONE
Number of soundings revised (refers to depth only)		8
Number of soundings erroneously spaced		NONE
Number of signals erroneously plotted or transferred		NONE
Topographic details	Time	1 HR
Junctions	Time	13 HRS
Verification of soundings from graphic record	Time	12 HRS
Special adjustments	Time	.....

Verification by A. Waldo H. Jones, Jr. Total time 95 HRS Date 6/26/64

Reviewed by Dennis J. Romesburg. Time 60 hrs Date 1-13-71

Inspected by - F. D. Saulsbury 18 hrs 10-12-79

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8564

Name on Survey	A: On Chart No. 423	B: On previous survey No.	C: On U. S. quadrangle Maps	D: From local information	E: On local Maps	F: P. O. Guide or Map	G: Rand McNally Atlas	H: U. S. Light List	K	
Bogue Banks	✓									1
Atlantic Beach (Tide Station)										2
Morehead City (Tide Station)										3
Money Island Beach										4
Fort Macon										5
										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
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										21
										22
										23
										24
										25
										26
										27

George M Bree
Geographic Names
23 Jan 1961

Chas. E. Harrington - C3x5
15 Oct 1979

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- 8564

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken. ✓

2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude. ✓

3. All reference to survey sheets mentioned in the descriptive report include the registry number and year. ✓

4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering. ✓

5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken. ✓

6. All positions verified instrumentally were check marked in the sounding records. ✓

7. All critical soundings are clear and legible and are a little larger than the adjacent soundings. ✓

8. The metal protractor has been checked within the last three months.

9. The protracting and plotting of all bad crossings were verified.

10 All detached positions locating critical soundings, rocks or buoys were verified. ✓

11. The boat sheet was compared with the smooth sheet. ✓

12 The spacing of soundings as recorded in the records was closely followed.

13. The bottom characteristics were shown on outstanding shoals.

14. The reduction and plotting of doubtful soundings were checked.

15. The transfer of contemporary topographic information was carefully examined.

16. All junctions were transferred and overlapping curves made identical.

17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.

18. The depth curves have been inspected before inking.

19. All triangulation stations and transfer of topographic and hydrographic signals were checked.

20. Heights of rocks were checked against range of tide.

21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.

22. Unnecessary pencil notes have been removed.

23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.

24. The low water line and delineation of shoal areas have been properly shown.

25. Degree and minutes values and symbols have been checked.

26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report).

28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual. ✓

29. All aids located, with those on contemporary topographic sheets, have been shown on survey. ✓

30. Depth curves were satisfactory except as follows:

31. Sounding line crossings were satisfactory except as follows:

32. Junctions with contemporary surveys were satisfactory except as follows:

33. Condition of sounding records was satisfactory except as follows:

34. The protracting was satisfactory except as follows:

35. The field plotting of soundings was satisfactory except as follows:

36. Notes to reviewer:

Verified by Lt Haldon H. Jones, Jr. Date 6/26/64

60 hrs. 845 pos.

FORM C&GS-8357 (7-19-63)

OFFICE OF HYDROGRAPHY & OCEANOGRAPHY
MARINE CHART DIVISION
HYDROGRAPHIC SURVEY EVALUATION BRANCH

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REVIEW OF HYDROGRAPHIC SURVEY NO. H-8564

PROJECT NO.	FIELD NO.	SURVEYED	SCALE
10000-820	GI-05-1-60	October 26 - December 2, 1960	1:5000

AREA
North Carolina, Beaufort Inlet, Off Atlantic Beach

SOUNDINGS
808 Depth Recorder
Hand Lead

CONTROL
Sextant Fixes on Shore Signals

CHIEF OF PARTY
K A MacDonald

SURVEYED BY
D. D. Harper, J. Collins

PROTRACTED BY
R. D. Lynn

SOUNDINGS PLOTTED BY
R D Lynn

VERIFIED AND INKED BY
D. W. Jones, Sr.

REVIEWED BY
D J Ramesburg

DATE
1-13-71

INSPECTED BY
J. P. Saulsbury

10-12-79

Note: 9-17-76 - Instructions from R.H.C per G. K. Myers:
Disregard inspection of H-8564. The common area is covered by subsequent survey H-9934 (1974) G. K. M.

1. Description of the Area

This survey covers an area off Bogue Banks between Fort Macon and Atlantic Beach, North Carolina. The survey extends seaward from the low-water line to a line joining the positions Lat 34° 40' 30", Long. 76° 43' 00" and Lat. 34° 39' 30", Long. 76° 41' 00".

The bottom is covered by a fine brown sand. Continuous shifting of the sand is responsible for the irregular configuration of the bottom in depths of 15 feet or less. A prominent sand ridge extends approximately 1800 meters into the survey area from the northeast. Coming from the southwest, just north and parallel to this sand ridge an indentation of the 12-ft. depth curve extends for 650 meters. Other than the aforementioned feature the bottom becomes less irregular and more uniform in slope from the 15-ft. depths to the greater depths of the survey.

2. Control and Shoreline

The source of control is given in Parts F and I of the Descriptive Report.

The shoreline originates with planetable survey T-~~3178~~ 7138 (1960).

3. ~~Hydrography~~

A. Depths at crossings are in good agreement.

B. Because of the combination of a small tide range and heavy surf on the exposed beach, the low-water line was not completely delineated. The usual depth curves were adequately delineated.

C. The development of bottom configuration is considered adequate.

4. Condition of the Survey

The field plotting, sounding records, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, except for the following:

A. The recorder failed to ~~annotate~~ annotate MRV (middle reed vibrating) ~~[illegible]~~ in the sounding volumes. This should be recorded when an actual check of the fathometer is made.

B. a better description and a more exact position of the concrete gun mount foundations indicated in volume III (e-day) between positions 1 and 2 would have been desirable. (located in lat. 34°41.61', long. 76°40.98')

5. Junctions

The junction with unverified H-8565 (1960) on the east will be considered in the review of that survey.

6. Comparison with Prior Surveys.

A. H-7963 (1952-53) 1:12,500

The area of the present survey falls within the limits of prior survey H-7963 (1952-53).

Substantial differences were noted between the prior and present survey in depth curve delineations and in depths shoreward of the 18-ft. curve. One example is the sand ridge denoted by the 3-ft. and 6-ft curve centered in Lat. 34°41'15", Long. 76°71'12" on the prior survey. The sand ridge or shoal has eroded from an approximate width of 300 meters as denoted by the 6-ft. curve ~~to an approximate~~ on the present survey width of 150 meters ~~present survey~~. The present delineation of the 3-ft. curve on this shoal is an area 60 meters in length by 25 meters in width versus a prior delineation of about 600 meters in length and an average width of 60 to 200 meters. On the present survey least depth on the shoal are 3 feet while ~~the~~ least depths on the prior survey of 1 and 2 feet fall in depth of 7-10 ~~feet now. At least one hurricane plus the~~ close proximity of Beaufort Inlet and its related ocean, tidal, and river currents are ~~believed~~ considered accountable for the changes in this area. Only minor differences were noted seaward of the 18-ft. curve.

The present survey is adequate to supersede

the prior survey within the common area. The common overlap area is indicated on the prior survey by a dashed line and the note Superseded by H-8564 (1960).

---

7. Comparison with Chart 423 (Latest print date 11th. Ed., May 16, 1970) (corr. thru N.M. 20/70)

A. Hydrography

space→ The charted hydrography originates with the previously discussed survey which requires no further consideration, supplemented by partial application of depths from the boat sheet and unverified smooth sheet of the present survey.

Attention is directed to the following:

1. The three soundings listed below originate with Rp. 72441, a bromide copy of the boat sheet of hydrographic survey H-8934 (1967). As this survey was performed subsequent to the date of the present survey the three soundings should be retained on the chart.

a. The 3-ft sounding charted in Lat. 34°41'19", Long. 76°41'19".

(5. continued)

B. H-8247 W.D. (1955) 1:20,000

A few 16 ft and 17 ft. depths on the present survey, in the vicinity of lat. 34°41.38', long. 76°42.60', at the northeastern limits of the drag work, are in conflict with an inclined sweep of 18 ft. to 38 ft. on the wire drag survey. Minor shoaling in this area is attributed to natural change. Chart depths in this area, as they are shown on the present survey.

b. The 6 ft. sounding charted in Lat. 34°41'14", Long. 76°41'11".
c. The 6-ft. sounding charted in Lat. 34°41'24", Long. 76°41'19".

2. The two dolphins charted in Lat. 34°42'00", Long. 76°40'52" and Lat. 34°42'01", Long. 76°40'51" originate with Chart Letter 1627 (1968) subsequent to the date of the present survey and should be retained on the chart.

B. Topography

1. The pier charted in Lat. 34°41'59", Long. 76°40'53" originates with a U.S. Coast Guard Drawing (Bp. 64673) subsequent to the date of the present survey and should remain charted.

2. The groin charted in Lat. 34°41'59", Long. 76°40'50" originates with the U.S. Coast Guard Drawing (Bp. 64673) subsequent to the date of the present survey and should be retained on the chart.

Except as noted above the present survey is adequate to supersede the charted hydrography

in the common area.

8. Compliance with Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is a good basic survey and no additional field work is recommended. If erosion of the coast line continues as indicated by the past history of this area, a more precise position of the concrete gun mount foundations mentioned in Part 4B of this review should be attained during future field work.

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~ 2 March 1961

Division of Charts: R. H. Carstens

Plane of reference approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 8564

Locality Beaufort Inlet, North Carolina

Chief of Party: K. A. Mac Donald (1960)
Plane of reference is mean low water reading.
1.9 ft. on tide staff at Atlantic Beach, N.C.
13.9 ft. below B. M. 4 (1960)

Height of mean high water a bove plane of reference is: 3.7 ft.

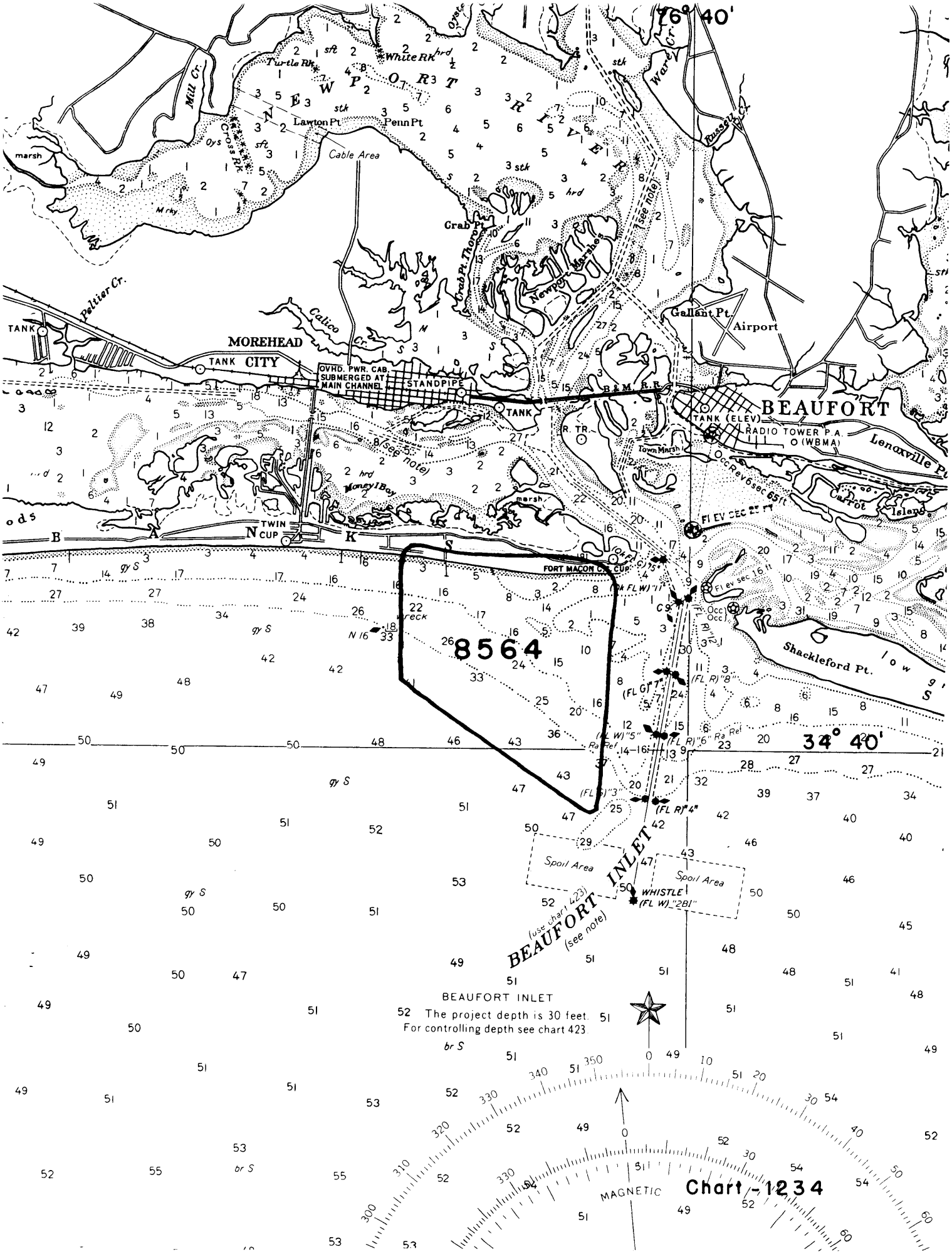
Condition of records satisfactory except as noted below:

Burt W. Wilson

Chief, Tides and Currents Branch

~~Chief, Division of Tides and Currents~~

U. S. GOVERNMENT PRINTING OFFICE 877933


76° 40'
34° 40'
MOREHEAD CITY
BEAUFORT
Gallant Pt.
Airport
Lawton Pt.
Penn Pt.
Cable Area
Crab Pt.
Newport Marshes
Calico Cr.
Money Island
Bird Island
Carrot Island
Shackleford Pt.
Spoil Area
Spoil Area
WHISTLE
(FL W)"2BI"
BEAUFORT INLET
(use chart 423)
(see note)
8564
TANK
TANK CITY
OVHD. PWR. CAB. SUBMERGED AT MAIN CHANNEL
STANDPIPE
TANK (ELEV)
RADIO TOWER P.A. O (WBMA)
R. TR.
B.M. R.R.
TWIN CUP
FORT MACON C.G. CUP
Occ Rev 6 sec 65 ft
Fl Ev Sec 16 ft
(FL G)"7"
(FL R)"8"
(FL W)"5"
(FL R)"6"
(FL G)"3"
(FL R)"4"
Ra Ref
wreck
marsh
Town Marsh
Mill Cr.
Turtle Rk.
White Rk.
Cross Rk.
Ward Cr.
Russell Cr.
Grab Pt. Thorofare
Poliers Cr.
The project depth is 30 feet.
For controlling depth see chart 423.
MAGNETIC
Chart - 1234

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8564

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/15/61	1234	J.N.Eaton	Part appl'd. Before ~~After~~ Verification and Review
2-23-61	833	R.K. deLaubenfels	Part appld (no correction) Before ~~After~~ Verification and Review
2/28/61	423	J.N.Eaton	Part App'd. Before ~~After~~ Verification and Review
8-21-61	420	W.J. Keeler	Part. App'd. Before ~~After~~ Verification and Review thru cht. 423
9-13-61	833	H.M. Quimby	Part. applied Before ~~After~~ Verification and Review thru cht 420 HH
9-19-61	1234	H.M. Quimby	Part. applied Before ~~After~~ Verification and Review thru cht 420 HH ~~423~~
12-5-61	1233	O. Svendsen	Part app Before ~~After~~ Verification and Review thru Ch 1234 Drg #18
9/10/63	833(A)	A.J. Hoffman	Examined thru 420, no corrections. Before ~~After~~ Verification and Review
5-12-71	423	B. Fennimore	~~Before~~ After Verification and Review, before insp. Consider fully appd. pending inspection
5-17-71	420	B. Fennimore	~~Before~~ After Verification and Review, before insp. Consider fully appd., pending inspection
6-1-71	1233	B. Fennimore	Consider fully appd. after Verification, Review and pending inspection
12-2-71	833-"A"	B B Dugan	Consider fully applied after verification, review and pending inspection
1/27/72	1234	B. Fennimore	Consider fully appd. after Verification, Review and pending inspection
11-3-72	1110	R.A. Lillis	Consider fully appl'd after Verification, Review and pending inspection

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.

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. _____

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
11544	9/22/80	JO'C RKennedy	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(1233)			Drawing No. 39 Superseded by H-9434 (1974)
11543	11/4/80	JO'C MMoore	Full ~~Part Before~~ After Verification Review Inspection Signed Via
(1234)			Drawing No. 28 Superseded by H9434 + 9462
11547	1/9/89	Barry D. Adams	Full ~~Part Before~~ After ~~Verification~~ Review ~~Inspection~~ Signed Via
			Drawing No. 33 Shelby H-9434
11541	4/27/98	PS Mark Petrucha	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 31 Superseded by H-9434, H-9432
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63