

12291

ORIGINAL

12291

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)Field No. Office No. T-12291

LOCALITY

State North CarolinaGeneral locality Long BayLocality Southport~~10-64-65~~ 1962-64

CHIEF OF PARTY

J. K. Wilson, Chief of Field Party
Allen L. Powell, Director, AMC

LIBRARY & ARCHIVES

DATE

USCOMM-DC 37022-P66

DESCRIPTIVE REPORT - DATA RECORD

T- 12291

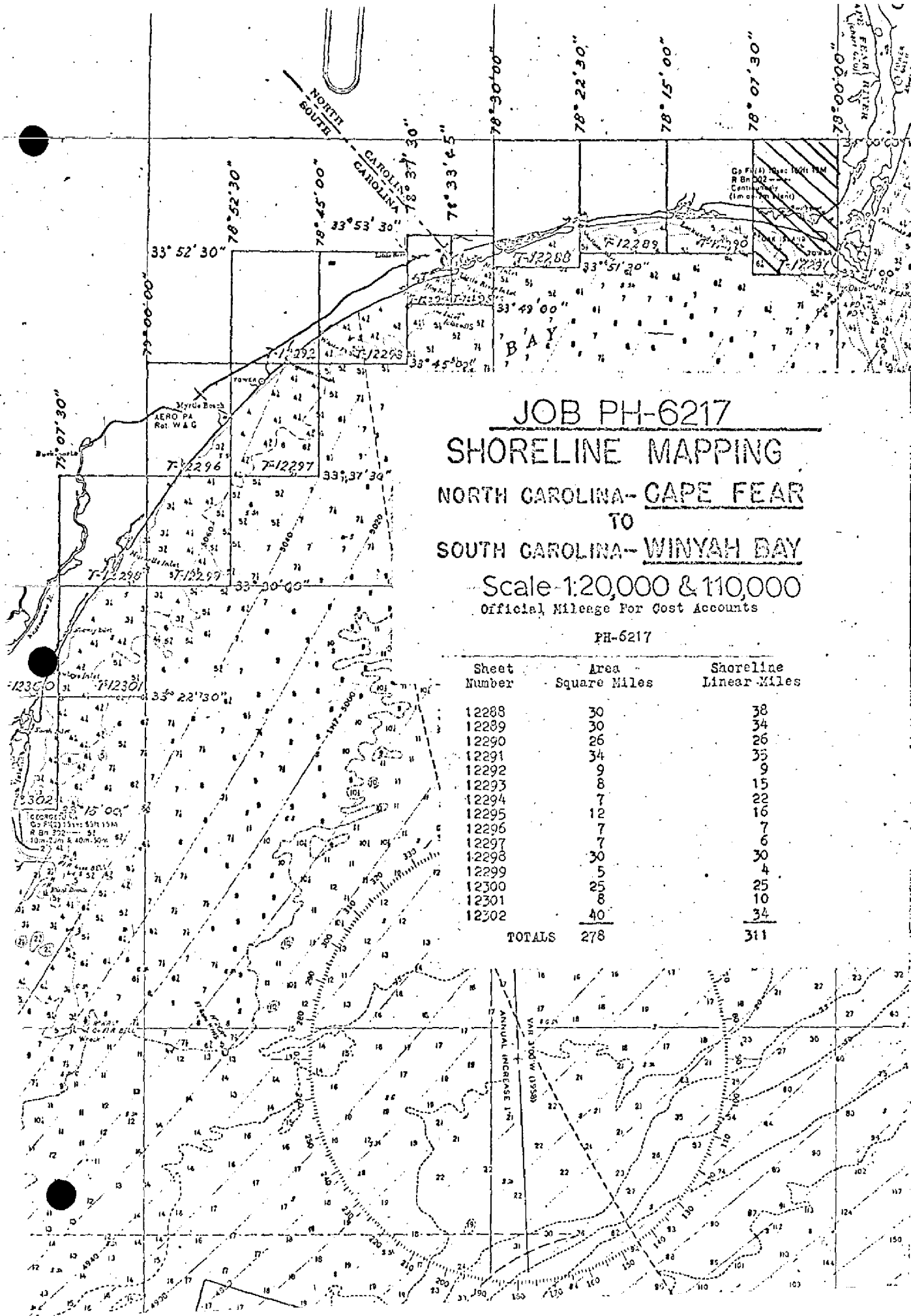
SUBJECT NO. (II): PH-6217		
FIELD OFFICE (II): Myrtle Beach, South Carolina		CHIEF OF PARTY Joseph K. Wilson
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, Va.		OFFICER-IN-CHARGE Allen L. Powell, Director
INSTRUCTIONS DATED (II) (III): Field - 11 September 1963 Office - 14 October 1963 Office - 10 January 1964, Amendment I		
METHOD OF COMPILATION (III): Kelsh Plotter		
MANUSCRIPT SCALE (III): 1:20,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 pantographed to 1:20,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N. A. 1927		VERTICAL DATUM (III): MHW MEAN SEA LEVEL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water
REFERENCE STATION (III): HICK, 1933		
LAT.: 33°55'30.979"	LONG.: 78°06'11.591"	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 65,021.16 ft. x = 2,272,091.01 ft.		STATE North Carolina
ZONE		
MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
Robert S. Tibbetts and Erwest W. Hartford		Feb-Apr 1964
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Mean high water line compiled from August 1962 photography with field inspection notes.		
PROJECTION AND GRIDS RULED BY (IV):		DATE
C. R. Johnson		Dec. 1963
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
P. Silverman		Dec. 1963
CONTROL PLOTTED BY (III):		DATE
I. R. Saperstein		Mar. 1964
B. Wilson		Jan. 1966
CONTROL CHECKED BY (III):		DATE
R. R. Wagner		Mar. 1964
B. H. Barnes		Jan. 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
W. Heinbaugh		Nov. 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	A. L. Shands	Dec. 1965
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		Jan. 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
B. Wilson		Feb. 1967
REMARKS:		
FIELD EDIT : NONE		

FORM C&GS-181c (3-66)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY			
DESCRIPTIVE REPORT - DATA RECORD					
CAMERA (KIND OR SOURCE) (III): S & W cameras					
PHOTOGRAPHS (III)					
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE	
62S903A-907A	29 Aug. 1962	0832	1:30,000	3.7 ft. above MLW	
63W3026&3027	21 Feb. 1963	0933	1:30,000	1.5 ft. above MLW	
64S1234&1235	8 May 1964	1027	1:30,000	0.2 ft. below MLW	
TIDE (III)					
			RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Charleston, S. C.				5.1	6.0
SUBORDINATE STATION: Cape Fear River (Fort Caswell)				4.2	4.8
SUBORDINATE STATION:					
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, AMC			DATE: June 1971		
PROOF EDIT BY (IV):			DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 30		RECOVERED: 23	IDENTIFIED: 4		
NUMBER OF BM(S) SEARCHED FOR (II): 10		RECOVERED: 5	IDENTIFIED: 2		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None					
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None					
REMARKS:					

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Dec. 1965	
Final Review	June 1971	



JOB PH-6217
SHORELINE MAPPING
NORTH CAROLINA-CAPE FEAR
TO
SOUTH CAROLINA-WINYAH BAY
Scale: 1:20,000 & 1:10,000
Official Mileage For Cost Accounts

PH-6217

Sheet Number	Area Square Miles	Shoreline Linear Miles
12288	30	38
12289	30	34
12290	26	26
12291	34	35
12292	9	9
12293	8	15
12294	7	22
12295	12	16
12296	7	7
12297	7	6
12298	30	30
12299	5	4
12300	25	25
12301	8	10
12302	40	34
TOTALS	278	311

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12291

Shoreline survey T-12291 is one of fifteen similar surveys in project PH-6217. Thirteen of the surveys were compiled at 1:20,000 scale and the remaining two at 1:10,000 scale. This survey covers that area in the vicinity of Southport and includes Cape Fear River Entrance. See page 5 of the descriptive report for the location of the survey within the project.

Field work preceded compilation. This consisted of recovery and identification of horizontal control, shoreline and field inspection, location of fixed aids to navigation and selection of landmarks for charts.

The purpose of the survey was to provide new shoreline and photo-hydro support data for hydrographic surveys to be made in the area. It was never used for this purpose and field edit of the survey was never accomplished. This survey is to be superseded by survey T-12291(2) of project PH-7019 which will be compiled from photography obtained in 1970.

Compilation was at 1:20,000 scale by Kelsh Plotter methods using the photography of 29 August 1962 and 21 February 1963. Final review was in the Atlantic Marine Center in June 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

84642
32 91669

FIELD INSPECTION REPORT
 Project 21059 (PH-6217)
 Maps T-12288 thru T-12291
 and T-12293 thru T-12295

This report is submitted for seven maps since there is no great difference in terrain, natural or cultural features which would require special treatment.

2. AREAL FIELD INSPECTION

The area lies between the North portion of Myrtle Beach, South Carolina to the Cape Fear River in North Carolina. It includes the Intracoastal Waterway and is bordered on the Southeast by the Atlantic Ocean. The photograph coverage is not complete for each map, therefore in accordance with instructions from Washington, field inspection has been completed to the limits of the photographs with the exception of a few places where photograph coverage extends beyond the map limits.

The area along the Atlantic Ocean is a summer resort. The portion from Myrtle Beach to the North Carolina line is built up almost solid while the area from the North Carolina line to the Cape Fear River is more sparsely settled.

There are several small villages along and near U. S. Highway 17. Some of the larger are: Crescent Beach, Little River, Shallotte and Southport.

The photographic quality was good for the entire area. Photographic tones were found to be similar to other areas along the South Atlantic Coast. The photographs used were flown in both 1962 and 1963, therefore, causing some areas to photograph slightly different. The field inspector has used the more recent photography where possible.

Photographs used for field inspection are listed below for individual maps:

<u>T-12293</u>	<u>T-12294</u>	<u>T-12295</u>	<u>T-12288</u>	<u>T-12289</u>	<u>T-12290</u>	<u>T-12291</u>
62 S 851A	62 S 849A	62 S 847A	62 S 832A	62 S 831A	62 S 908A	63 W 3027
62 S 1061A	62 S 850A	62 S 846A	62 S 843A	62 S 827A	62 S 909A	63 W 3025
62 S 1062A	63 W 3036	63 W 3034	62 S 845A	62 S 829A	62 S 910A	63 W 3024
62 S 1063A	63 W 3037	63 W 3035	63 W 3029	62 S 841A	62 S 911A	62 S 903A
62 S 1064A	63 W 3038		63 W 3030	63 W 3029	62 S 912A	62 S 904A
62 S 851A			63 W 3031		62 S 913A	62 S 905A
62 S 852A			63 W 3032		62 S 914A	62 S 906A
62 S 853A			63 W 3033		62 S 827A	62 S 907A
62 S 854A						
62 S 855A						

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

The identification of horizontal control was accomplished on 15 February 1964 and forms 152 and 526 (in duplicate) were forwarded to Washington at that time.

PRICE AZIMUTH MARK, 1962 was moved to a new location by this party. See 1964 description and new G.P.

Horizontal control stations reported "lost", "destroyed", or "not recovered" are listed below by maps:

T-12293

SANDY, 1934
INTRACOASTAL WATERWAY STA. 730/84.60, 1934
NIXON, 1923

T-12294

INTRACOASTAL WATERWAY BEACON NO. 46, 1934
LITTLE RIVER BEACON NO. 8, 1934

T-12295

INTRACOASTAL WATERWAY BEACON NO. 77, 1934
BIRD, 1962

T-12288

SAUCE, 1934
TUBBS, 1934
SYLVIA, 1934
BALD BEACH, 1962
INTRACOASTAL WATERWAY BEACON NO. 38, 1934
INTRACOASTAL WATERWAY BEACON NO. 36, 1934
INTRACOASTAL WATERWAY BEACON NO. 42, 1934
INTRACOASTAL WATERWAY BEACON NO. 55, 1934
INTRACOASTAL WATERWAY BEACON NO. 57, 1934
INTRACOASTAL WATERWAY BEACON NO. 59, 1934
INTRACOASTAL WATERWAY BEACON NO. 61, 1934
INTRACOASTAL WATERWAY BEACON NO. 71, 1934
INTRACOASTAL WATERWAY BEACON NO. 73, 1934
INTRACOASTAL WATERWAY BEACON NO. 75, 1934

T-12289

HEWETT, 1934
LOCKWOOD, 1934
FISH, 1923
CHADWICK, 1934
TAR, 1934
INTRACOASTAL WATERWAY BEACON NO. 29, 1934
INTRACOASTAL WATERWAY BEACON NO. 30, 1934

INTRACOASTAL WATERWAY BEACON NO. 32, 1934
 INTRACOASTAL WATERWAY BEACON NO. 34, 1934
 INTRACOASTAL WATERWAY BEACON NO. 35, 1934
 INTRACOASTAL WATERWAY BEACON NO. 45, 1934
 INTRACOASTAL WATERWAY BEACON NO. 51, 1934

T-12290

WATERWAY, 1934
 BIG HILL, 1905
 INTRACOASTAL WATERWAY BEACON NO. 23, 1934

T-12291

A. L. (U.S.E.), 1923
 CORNCAKE, 1962
 FUZZY, 1933
 3 (U.S.E.), 1933
 BRIDGE, 1933
 ROAD, 1933
 OAK, 1933
 R. B., 1923

4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 685A is submitted for each mark.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is almost entirely composed of tidal streams. Normal drainage is generally by direct run-off into marsh or swamp.

6. WOODLAND COVER

Woodland Cover was classified in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with current instructions. No attempt was made to delineate the low-water line. The delineation of the high-water line was accomplished by several methods: Measurements from identifiable points of detail; by visual inspection from skiff; and by walking the shoreline.

All other shoreline features are adequately covered by field inspection notes on the photographs. There have been few developments since photography. Included with the map data for T-12289 is a tracing of a surveyors map of a new development along the Intracoastal Waterway. The field inspector has located several common points of detail photogrammetrically.

The field inspector has delineated the shoreline on the 1963 photographs where possible. The compiler will note, along the Intracoastal Waterway, a mud bank where the 1963 photographs were flown at a lower tide than the 1962 ones.

8. OFFSHORE FEATURES

A letter-size section of the chart is submitted with Map T-12291. Several piling, wrecks, etc., were located by sextant or theodolite cuts.

9. LANDMARKS AND AIDS

A thorough inspection of Nautical Landmarks was made. Form 567 is submitted for each. A few have been shown for deletion and a few new ones are recommended.

All fixed aids to navigation are reported on form 567 for charting. There was only a few changes. A few new daybeacons and one rear range light have been added at the Oak Island Entrance in Map T-12291. The aids were located by several photogrammetric methods, namely: direct method, theodolite cuts from triangulation stations and photo points, and by sextant.

10. BOUNDARIES, MONUMENTS AND LINES

There have been no boundary lines shown.

11. OTHER CONTROL

There were no marked topographic stations established.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Photogrammetric Instructions No. 56.

Field Inspection of buildings was done in accordance with Photogrammetric Instructions No. 54, revised September 22, 1961.

There were no bridge or cable clearances measured during this survey.

Marsh and swamp limits have been shown on the photographs where coverage was available.

13. GEOGRAPHIC NAMES

See Special Report of Geographic Names, Project 21059, which was submitted to Washington on 5 February 1964.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Control Identification to Washington 10-16-63.
Control Identification to Washington 10-24-63.
Map Data T-12300 thru T-12302 to Tampa 1-17-64.
Geographic Names Report to Washington 2-10-64.
Control Identification to Washington 2-13-64.
Map Data T-12298 to Tampa 2-25-64.
Map Data T-12292, T-12296, T-12297 and T-12299 to Tampa 3-4-64.

23 April 1964.

Submitted by:

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 6420

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AEROTRIANGULATION REPORT

Project No. 21059

Cape Fear to North Carolina

Winyah Bay to South Carolina

21. Area Covered

This report covers aerotriangulation bridging of the Atlantic Coast from Myrtle Beach, South Carolina to Cape Fear, North Carolina (T-Sheets T-12288 thru T-12295 and T-12297).

22. Method

Three strips were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. All stations held within National Map Accuracy Standards, with the exceptions of Corneake RM #1, 1962 (Strip #3) and Goat, 1934, SS"A". All tie points were averaged. Plotting coordinates are furnished at 1:10,000 scale.

23. Adequacy of Control

Horizontal control provided was adequate in quality and coverage, with the exception of Corneake RM #1, 1962, which could not be held in strip #3. It is believed that the RM #1 has been disturbed (see Form 526 Recovery Note). Another station should be identified in the area to complete T-Sheet No. T-12291, Goat 1934, SSA could not be clearly identified in strip #1 and was eliminated from the bridge.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap, and definition.

Submitted by:

W. Heinbaugh
W. Heinbaugh

Approved by:

John P. Perrow Jr.
JOHN P. PERROW, JR.

MAP T. 12291 PROJECT NO. PH-6217 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
AL (USE), 1923	Page 183	NA 1927	59,425.25	9,425	(575)				
			2,299,378.09	9,378	(622)				
BALD HEAD, 1962	P. 2	NA1927 (unadj. field)	33° 51' 46.13"	1,421.3	(427.3)				
			78° 00' 33.45"	859.8	(682.4)				
BRIDGE, 1933	P. 176	NA1927	63,939.69	3,940	(6,060)				
			2,281,649.61	1,650	(8,350)				
CATWALK, 1962	P. 2	NA1927 (unadj. field)	33° 53' 33.61"	1,035.5	(813.1)				
			78° 02' 06.74"	173.2	(1,368.5)				
CLEM, 1933	P. 176	NA1927	61,340.53	1,341	(8,659)				
			2,276,882.47	6,882	(3,118)				
CREEK, 1923	P. 226	"	62,975.62	2,976	(7,024)				
			2,288,217.48	8,217	(1,783)				
FORT CASWELL, 1962	P. 2	NA1927 (unadj. field)	33° 53' 33.37"	1,028.1	(820.5)				
			78° 00' 55.64"	1,429.7	(112.0)				
POND, 1934	P. 226	NA1927	57,476.55	7,477	(2,523)				
			2,277,801.01	7,801	(2,199)				
FORT CASWELL BAPTIST P.20 ASSEMBLY CHURCH	P. 20	NA1927	33° 53' 35.72"	1,100.5	(748.1)				
CAMP, WATER TANK, 1962	Form 526	(unadj. field)	78° 01' 09.89"	254.1	(1,287.6)				
FUZZY, 1933	P. 177	NA1927	62,528.46	2,528	(7,472)				
			2,274,405.25	4,405	(5,595)				
GAR 2 (USE), 1962	P. 2	NA1927 (unadj. field)	33° 55' 03.20"	98.6	(1,750.0)				
			78° 01' 02.22"	57.0	(1,484.3)				
HICK, 1933	P. 226	NA1927	65,021.16	5,021	(4,979)				
			2,272,091.01	2,091	(7,909)				

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12291 PROJECT NO. Ph-6217 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meters) FORWARD (BACK)
LIZ, 1933	Page 177	NA1927	63,626.70	3,627 (6,373)
			2,271,971.87	1,972 (8,028)
LONG BEACH, 1962	Page 2	NA1927 (unadj. field)	33° 54' 30.02"	924.9 (923.7)
			78° 06' 25.35"	651.2 (890.2)
OAK, 1933	P. 176	NA1927	59,187.50	9,188 (812)
			2,286,882.89	6,883 (3,117)
OAK ISLAND, COAST GUARD RADIO BEACON MAST, 1962	P. 19 & Form 526	NA1927	33° 53' 33.25"	1,024.4 (824.2)
			78° 02' 05.49"	141.1 (1,400.6)
OAK ISLAND LIGHTHOUSE, 1962	P. 21	" (unadj. field)	33° 53' 33.54"	1,033.4 (815.2)
			78° 02' 06.77"	174.0 (1,367.7)
R B, 1923	P. 183	NA1927	55,158.54	5,159 (4,841)
			2,286,447.09	6,447 (3,553)
ROAD, 1933	P. 176	"	60,783.30	783 (9,217)
			2,281,253.69	1,254 (8,746)
R (1923 USE)	P. 69	"	53,159.68	3,160 (6840)
			2,293,034.46	3,034 (6,966)
SOUTHPORT EAST BASE, 1932	P. 37	"	74,830.90	4,831 (5,169)
			2,288,735.74	8,736 (1,264)
SOUTHPORT MUNICIPAL WATER TANK, 1962	P. 19 & Form 526	NA 1927 (unadj. field)	33° 55' 16.67"	513.6 (1,335.0)
			78° 01' 12.92"	331.9 (1,209.3)
SOUTHPORT, WILMINGTON-CAPE FEAR PILOTS ASSN. TOWER, 1962	P. 19 & Form 526	" "	33° 54' 59.65"	1837.8 (10.8)
			78° 01' 12.01"	308.5 (1232.8)
3 (USE), 1933	P. 177	NA1927	64,604.63	4605 (5395)
			2,269,505.84	9506 (494)

COMPUTED BY

B.L. Barge

DATE

2/10/65

CHECKED BY

B.H. Barnes & B. Wilson

DATE

Feb. 1965 & Jan. 1967

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12291 PROJECT NO. Ph-6217 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter)
BALD HEAD LIGHTHOUSE, 1962	Page 21	NA 1927 (unadj. field)	33° 52' 24.07"	741.6 (1,107.0)
MOUTH, 1933	P. 176	NA 1927	78° 00' 02.29"	58.9 (1,483.2)
HOOK, 1933	P. 176	NA 1927	61,155.95	1,156 (8,844)
			2,295,075.83	5,076 (4,924)
B.H., JR. (U.S.E.), 1923	P. 183	NA 1927	64,707.03	4,707 (5,293)
			2,275,061.71	5,062 (4,938)
AUX, 1923	P. 184	"	45,909.09	5,909 (4,091)
			2,302,225.05	2,225 (7,775)
SOUTHPORT METHODIST CHURCH, WHITE SPIRE, 1932	P. 185	"	62,319.58	2,320 (7,680)
			2,298,036.15	8,036 (1,964)
LOOKOUT, 1905	P. 185	"	63,341.33	3,341 (6,659)
			2,297,965.14	7,965 (2,035)
SOUTHPORT, PRESBYTERIAN CHURCH, SPIRE, 1905	P. 186	"	52,785.49	2,785 (7,215)
			2,295,941.16	5,941 (4,059)
SOUTHPORT, ST. JAMES CHURCH, 1905	Page 186	"	63,070.11	3,070 (6,930)
			2,296,504.95	6,505 (3,495)
NEW SOUTH CASHWELL, 1886	P. 190	"	64,057.00	4,057 (5,943)
			2,298,289.00	8,289 (1,711)
SMITHVILLE COURTHOUSE, 1851	P. 190	"	53,059.47	3,059 (6,941)
			2,298,215.10	8,215 (1,785)
			62,877.43	2,877 (7,123)
			2,297,899.69	7,900 (2,100)

COMPUTED BY B. Wilson	CHECKED BY B. H. Barnes	DATE Jan. 9, 1967
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COMPILATION REPORT

T-12291

31. DELINEATION

Compilation was by Kelsh Plotter methods using the photography of August 29, 1962. The field inspection was adequate and the photography of good quality.

32. CONTROL

See Aerotriangulation Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours - inapplicable.

The drainage was compiled from office interpretation of the photography and in accordance with field inspection notes.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail was delineated in accordance with field inspection notes. No major difficulties were encountered with this phase of compilation.

36. OFFSHORE DETAIL

No offshore detail to be called to the attention of the hydrographer were noted during the course of compilation.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for landmarks and fixed aids to navigation will be forwarded at a later date.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was established.

39. JUNCTIONS

A satisfactory junction was made with T-12290 to the west. There are no contemporary surveys to the north or east. The Atlantic Ocean is to the south of this survey.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. SOUTHPORT, N.C., 1:24,000 scale quadrangle. There is now an extensive pattern of streets throughout the Long Beach area on Oak Island.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Charts 835-SC, 3rd edition, March 1, 1966 and 426, 4th edition dated February 8, 1965. The comparisons were favorable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Arnold Shands

A. Shands
Cartographic Aid

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Allen L. Powell
Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center

May 28, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6217 (North Carolina)

T-12291

Ash Swamp	Elizabeth River
Atlantic Ocean	Ella Point
Bald Head	Fort Caswell
Bald Head Island	Frazier Neck
* Bald Head Shoal	Intracoastal Waterway
Barnes Bluff	Long Bay
Battery Island	Long Beach (beach)
Beaverdam Creek	Long Beach (town)
Cape Fear River	Molasses Creek
Cape Fear River Entrance	Oak Island
Caswell Basin	Piney Point Creek
Caswell Beach (beach)	Polley Gulley Creek
Coward Creek	Smith Island
Dashers Creek	Smokehouse Creek
Denis Creek	Southport
Dutchman Creek	Yaupon Beach (town)

** Feature not delineated on this survey*

Approved by:

A. Joseph Wright

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

49. Notes for the Hydrographer

None

FORM C&GS-1002 (9-66)		PHOTOGRAMMETRIC OFFICE REVIEW T. 12291		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS		2. TITLE		3. MANUSCRIPT NUMBERS	
B.W.		B.W.		B.W.	
4. MANUSCRIPT SIZE		B.W.			
CONTROL STATIONS					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)		7. PHOTO HYDRO STATIONS
B.W.					
8. BENCH MARKS		9. PLOTTING OF SEXTANT FIXES		10. PHOTOGRAMMETRIC PLOT REPORT	
B.W.		B.W. & C.H.B.		B.W.	
11. DETAIL POINTS					
B.W.					
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE		13. LOW-WATER LINE		14. ROCKS, SHOALS, ETC.	
B.W.		B.W.		B.W.	
15. BRIDGES		16. AIDS TO NAVIGATION		17. LANDMARKS	
B.W.		B.W. & C.H.B.		B.W.	
18. OTHER ALONGSHORE PHYSICAL FEATURES		19. OTHER ALONGSHORE CULTURAL FEATURES		20. OTHER ALONGSHORE CULTURAL FEATURES	
B.W.		B.W.		B.W.	
PHYSICAL FEATURES					
21. WATER FEATURES			22. NATURAL GROUND COVER		23. PLANETABLE CONTOURS
B.W.			B.W.		
24. STEREOSCOPIC INSTRUMENT CONTOURS		25. CONTOURS IN GENERAL		26. SPOT ELEVATIONS	
B.W.		B.W.		B.W.	
27. OTHER PHYSICAL FEATURES		28. OTHER PHYSICAL FEATURES			
B.W.		B.W.			
CULTURAL FEATURES					
29. ROADS		30. BUILDINGS		31. RAILROADS	
B.W.		B.W.		B.W.	
32. OTHER CULTURAL FEATURES		33. OTHER CULTURAL FEATURES			
B.W.		B.W.			
BOUNDARIES					
34. BOUNDARY LINES			35. PUBLIC LAND LINES		
MISCELLANEOUS					
36. GEOGRAPHIC NAMES			37. JUNCTIONS		38. LEGIBILITY OF THE MANUSCRIPT
B.W.			B.W.		B.W.
39. DISCREPANCY OVERLAY		40. DESCRIPTIVE REPORT		41. FIELD INSPECTION PHOTOGRAPHS	
B.W.		B.W.		B.W.	
42. FORMS		43. FORMS			
B.W.		B.W.			
44. REVIEWER			45. SUPERVISOR, REVIEW SECTION OR UNIT		
Bernice Wilson Feb. 1967			Albert C. Rauck		
46. REMARKS (See attached sheet)					
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT					
47. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.					
48. COMPILER			49. SUPERVISOR		
50. REMARKS					

REVIEW REPORT T-12291

SHORELINE

JUNE 9, 1971

61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of surveys T-8197 and T-8203. These 1:20,000 scale surveys, made in 1942 and 1943, are a part of the 7 1/2 minute series of standard topographic quadrangle maps printed and distributed by the U. S. Geological Survey. All differences that exist between these surveys and T-12291 will also exist between T-12291 and the SOUTHPORT and CAPE FEAR, N.C. Geological Survey quadrangles.

All differences that exist between the surveys have been indicated on the comparison print in blue.

The passage of time has made surveys T-8197 and T-8203 obsolete. They are superseded by T-12291 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS SOUTHPORT, N.C. and CAPE FEAR, N.C., 1:24,000 scale quadrangles. See Item 62 above.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There were no contemporary hydrographic surveys available for comparison purposes at the time of final review.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 835-SC, 8th edition, January 23, 1971. The following differences are noted.

Oak Island Channel Daybeacon 6A and Cape Fear-Little River Light 6 are not shown on T-12291.

A wreck in the Intracoastal Waterway near latitude $33^{\circ}55'14''$ longitude $78^{\circ}03'36''$ is not visible on photograph of the area.

Three submerged wrecks on the northerly side of Battery Island could not be found by the field inspectors and are not visible on the photographs.

The position of Cape Fear-Little River Daybeacon 21 is not in agreement on the two surveys.

All differences between the two surveys have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet
Cartographer

Approved for forwarding:

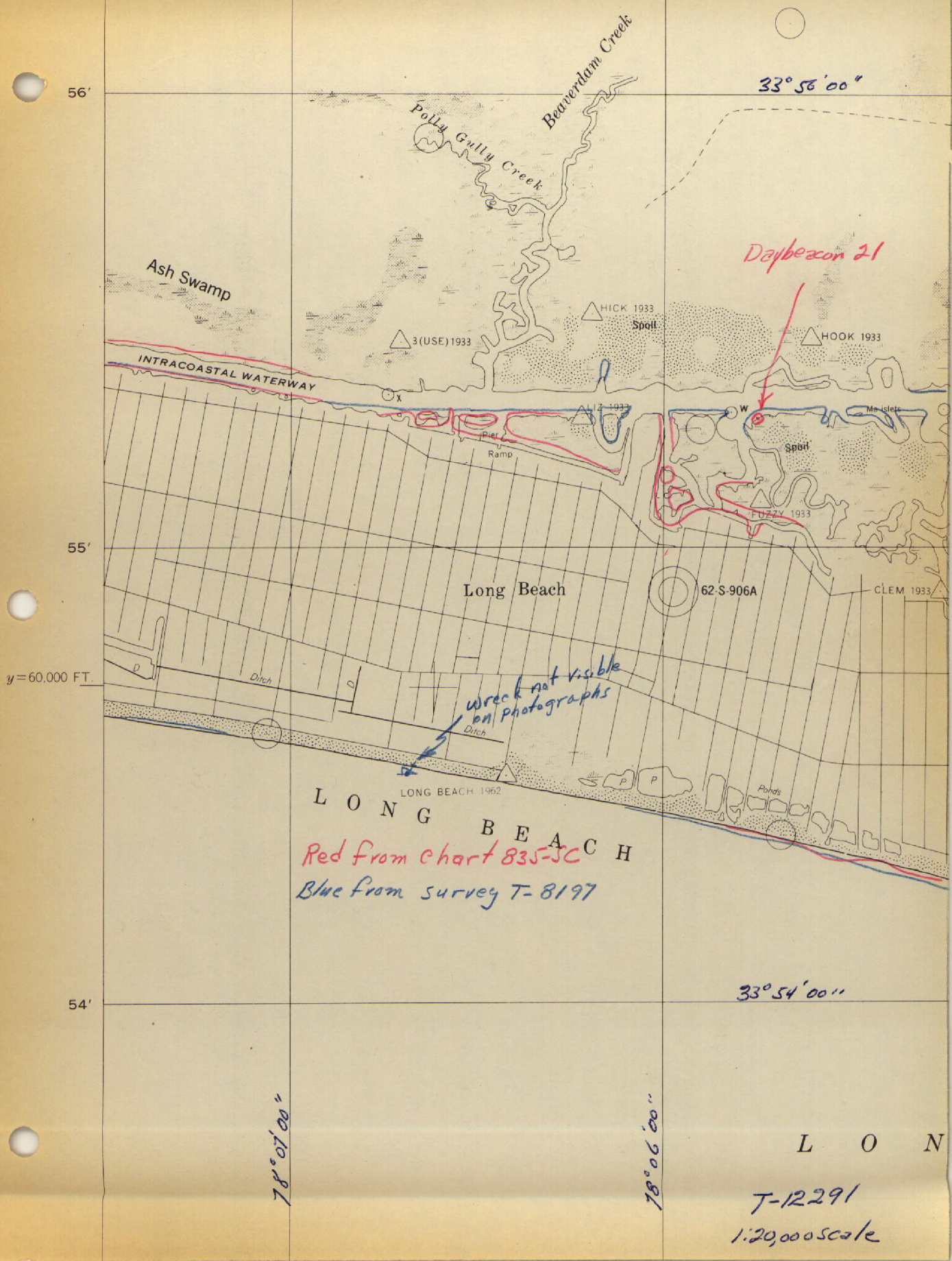
Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Allen L. Powell
Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Charles H. Hannon *Jack E. Luth*
Chief, Photogrammetric Branch Chief, Photogrammetry Division



56'

33° 56' 00"

Ash Swamp

Polly Gully Creek
Beaverdam Creek

Daybeacon 21

INTRACOASTAL WATERWAY

3 (USE) 1933

HICK 1933
Spot

HOOK 1933

55'

Long Beach

62-S-906A

CLEM 1933

y=60,000 FT.

wreck not visible
on photographs

LONG BEACH
Red from chart 835-JC
Blue from survey T-8197

54'

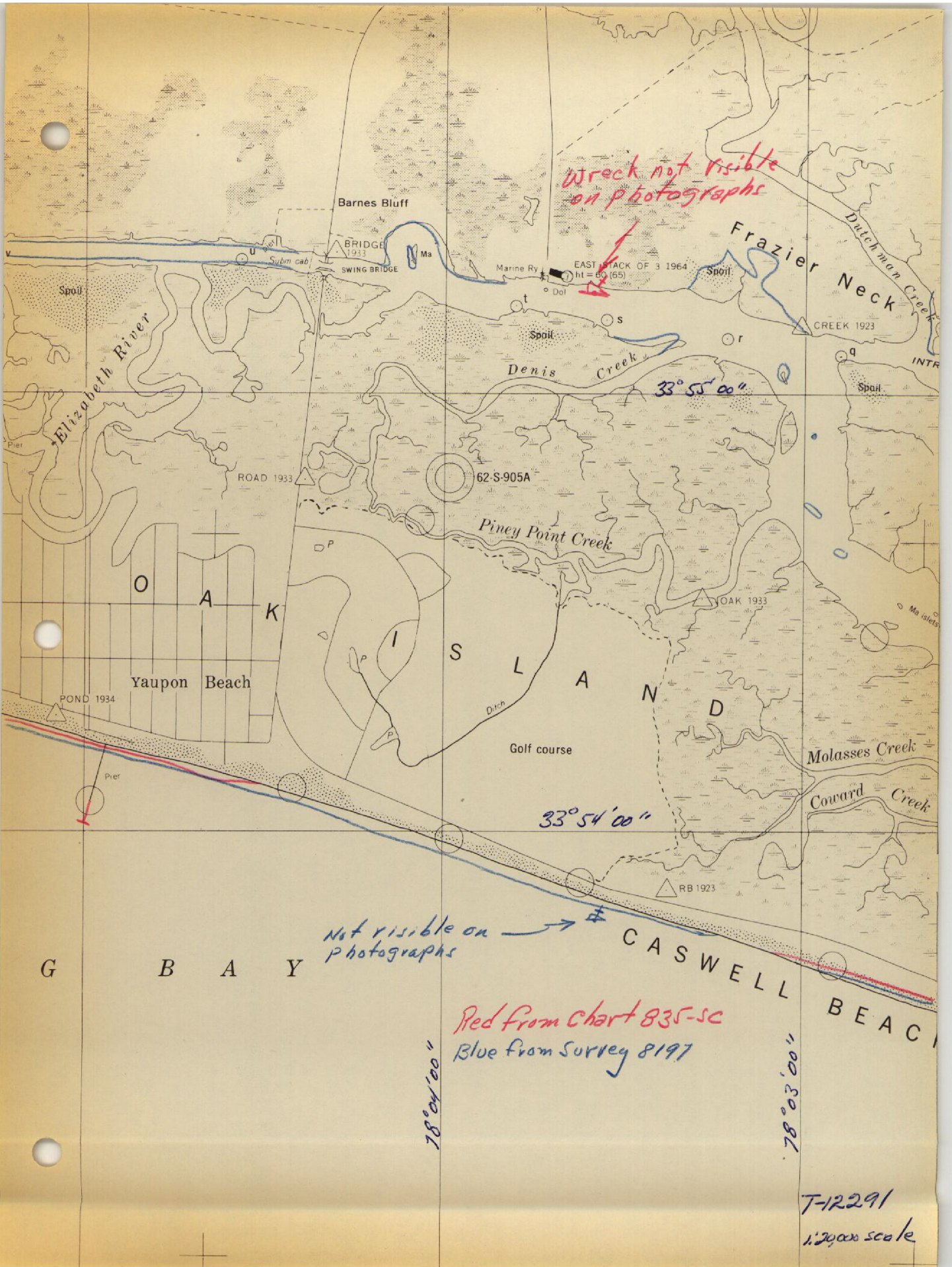
33° 54' 00"

78° 01' 00"

78° 06' 00"

L O N

T-12291
1:20,000 scale



e - OAK ISLAND CHANNEL DAYBEACON 6 1964
 f - OAK ISLAND CHANNEL DAYBEACON 7 1964
 g - OAK ISLAND CHANNEL DAYBEACON 9 1964
 h - OAK ISLAND CHANNEL DAYBEACON 10 1964
 j - OAK ISLAND CHANNEL RANGE FRONT LIGHT 8 1964
 k - OAK ISLAND CHANNEL RANGE REAR LIGHT 1964
 m - CAPE FEAR-LITTLE RIVER DAYBEACON 3 1964
 n - CAPE FEAR-LITTLE RIVER DAYBEACON 5 1964
 p - CAPE FEAR-LITTLE RIVER DAYBEACON 7 1964
 q - CAPE FEAR-LITTLE RIVER DAYBEACON 9 1964
 r - CAPE FEAR-LITTLE RIVER LIGHT 11 1964
 s - CAPE FEAR-LITTLE RIVER DAYBEACON 13 1964
 t - CAPE FEAR-LITTLE RIVER DAYBEACON 15 1964
 u - CAPE FEAR-LITTLE RIVER LIGHT 17 1964
 v - CAPE FEAR-LITTLE RIVER DAYBEACON 19 1964
 w - CAPE FEAR-LITTLE RIVER DAYBEACON 21 1964
 x - CAPE FEAR-LITTLE RIVER LIGHT 22 1964

78° 02' 00"

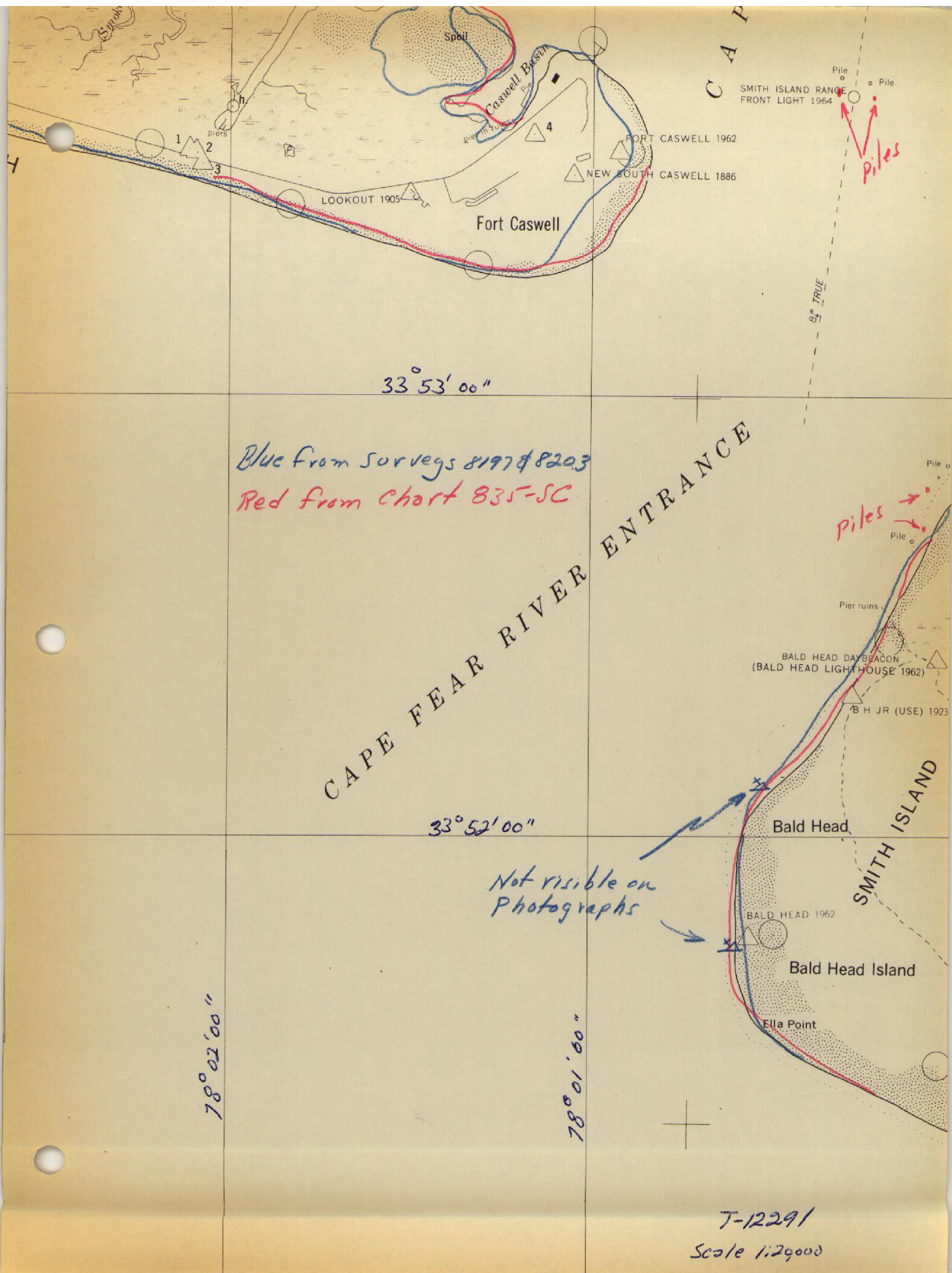
33° 56' 00"

Red from chart 835-SC

Blue from survey 8197

SOUTHPORT





TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

NONFLOATING AIDSMARKS FOR CHARTS

Atlantic Marine Center

January, 19 67

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(delete from)~~ the charts indicated.

The positions given have been checked after listing by

D. Wilson

B. Wilson

for J. Bull, Director, AMC

GEOGRAPHIC

STATE	NORTH CAROLINA		SIGNAL NAME	DESCRIPTION	POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED		
					LATITUDE		LONGITUDE									DATUM	
					°	'	°	'	"								D.P. METERS
					"	D.M. METERS	"	D.P. METERS									
				CAPE FEAR RIVER													
TOWER				Steel Ht. = 89 (94) Ft. (SOUTHPORT WILMINGTON-CAPE FEAR PILOTS ASSN TOWER 1962)	33	54	59.65 1838	78	01	12.01 309	NAL927 (unad.)	verified 3-19-64	x		x 835 SC 426, 1236		
TANK				Steel Ht. = 136 (156) Ft. (SOUTHPORT MUNICIPAL WATER TANK 1962)	33	55	16.67 514	78	01	12.92 332	"	"		x	x 835 SC 426, 1236		
LIGHT-HOUSE			*	Cylindrical Concrete Tower ht = 153 (166) Ft. (OAK ISLAND LIGHTHOUSE 1962)	33	53	33.54 1033	78	02	06.77 174	"	"		x	x 835 SC 426, 1236		
TANK				Steel Ht. = 62 (72) Ft. (FORT CASWELL BAPTIST ASSEMBLY CHURCH CAMP WATER TANK 1962)	33	53	35.72 1101	78	01	09.89 254	"	"		x	x 835 SC 426, 1236		
TOWER (ABAND LH)			*	Ht=106 (115) Ft. (BALD HEAD LIGHTHOUSE 1962)	33	52	24.07 742	78	00	02.29 59	"	"		x	x 835 SC 426, 1236		
SPIRE				CHURCH SPIRE, Wood-white Ht = 50 (70) ft.	33	55	06.72 207	78	01	04.59 118	NAL927	Photo			x 835 SC 426		
STACKS			**	EAST STACK OF 3 STACKS Ht. = 60 (65) Ft.	33	55	16.23 500	78	03	39.98 1027	"	"		x	x 835 SC 426, 1236		
*Also on aids list																	
**On a section of chart submitted by field inspector, this is called CHIMNEY, which it is.																	

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 16234-P61

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Page 2 of 4

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE REVISITED
TO BE REVISITED
STRIKE OUT TWO

Atlantic Marine Center January 1967

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(delete from)* the charts indicated.

The positions given have been checked after listing by *B. Wilson*

B. Wilson

APL
A. J. Bull, Director, AMC

STATE	CHARTING NAME	NORTH CAROLINA	CAPE FEAR RIVER DESCRIPTION	SIGNAL NAME	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	CHARTS AFFECTED
					LATITUDE	LONGITUDE	DATUM					
	LIGHT- HOUSE		OAK ISLAND LIGHT ht = 156 (166) Ft *		33 53	78 02	NA 1927 (unadj)	T-12291	Verified			X 835 SC 426, 1236
	TOUR		Bald Head Daybeacon ht = 106 (115) *		33 52	78 00	"	"	"			X 835 SC 426, 1236
	(ABAND LH)		Ft. (BALD HEAD LIGHTHOUSE 1962)		33 53	78 00	"	"	"			X 835 SC 426, 1236
	LIGHT		SMITH ISLAND RANGE FRONT LIGHT		33 54	78 00	NA 1927	Photo	3-23-64			X 835 SC 426, 1236
	"		SMITH ISLAND RANGE REAR LIGHT		33 54	78 01	"	"	"			X 835 SC 426, 1236
	"		SOUTHPORT CHANNEL RANGE FRONT LIGHT		33 54	78 01	"	"	"			X 835 SC 426, 1236
	"		SOUTHPORT CHANNEL RANGE REAR LIGHT		33 54	78 01	"	"	"			X 835 SC 426, 1236
	LIGHT 1		SOUTHPORT LIGHT 1		33 54	78 01	"	"	"			X 835 SC 426, 1236
			OAK ISLAND CHANNEL									
	DAYBN 1		Daybeacon 1		33 54	78 01	16.19	"	"			X 835 SC 426
	LIGHT 2		LIGHT 2		33 54	78 01	16.62	"	"			X 835 SC 426, 1236
	DAYBN 3		Daybeacon 3 **		33 54		427	"	"			X 835 SC 426
	DAYBN 4		Daybeacon 4		33 54	78 01	19.89	"	"			X 835 SC 426
	DAYBN 5		Daybeacon 5		33 54	78 01	24.53	"	"			X 835 SC 426
	* - Also on LDMX list ** - From field form 567; no position available; not in 1766 LT list											

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

TO BE EXCHANGED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center
January, 1967

I recommend that the following objects which have ~~(have)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

B. Wilson

Handwritten signature

for J. Bull, Director, AHC

Griffioen, P. J.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE ENCHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Atlantic Marine Center January 1967

I recommend that the following objects which have ~~(inserted)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

B. Wilson

B. Wilson

Jas. Bull, Director, AMC

Chart 11200

STATE				NORTH CAROLINA				POSITION				METHOD OF LOCATION AND SURVEY NO.				DATE OF LOCATION				HARBOR CHART				INSHORE CHART				OFFSHORE CHART				CHARTS AFFECTED			
CHARTING NAME		DESCRIPTION		SIGNAL NAME		LATITUDE*		LONGITUDE*		DATUM		METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED													
CHARTING NAME		DESCRIPTION		SIGNAL NAME		LATITUDE*		LONGITUDE*		DATUM		METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED													
CHARTING NAME		DESCRIPTION		SIGNAL NAME		LATITUDE*		LONGITUDE*		DATUM		METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED													
DAYBN. 3		Daybeacon 3				33 54		78 01		NA1927		Photo T-12291		3-23-64		X		X		X		8355C 426													
" 5		Daybeacon 5				33 54		78 01		"		"		"		X		X		X		"													
" 7		Daybeacon 7				33 55		78 02		"		"		"		X		X		X		"													
" 9		Daybeacon 9				33 55		78 02		"		"		"		X		X		X		"													
LIGHT 11		LIGHT 11				33 55		78 03		"		"		"		X		X		X		"													
DAYBN. 13		Daybeacon 13				33 55		78 03		"		"		"		X		X		X		"													
" 15		Daybeacon 15				33 55		78 03		"		"		"		X		X		X		"													
LIGHT 17		LIGHT 17				33 55		78 04		"		"		3-16-64		X		X		X		"													
DAYBN. 19		Daybeacon 19				33 55		78 05		"		"		"		X		X		X		"													
" 21		Daybeacon 21				33 55		78 05		"		"		"		X		X		X		"													
LIGHT 22		LIGHT 22				33 55		78 06		"		"		"		X		X		X		"													

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

