TP-00508 ORIGINAL

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline	
Job No. CM-7305	
Classification No.	Edition No
Field Edited	Мар
LOCALIT	Y
State North Carolina	
General Locality Cape Hatt	eras - Cape Lookout
Locality Hatteras Inlet	
1974 TO	19 75
REGISTRY IN AF	

★ U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152

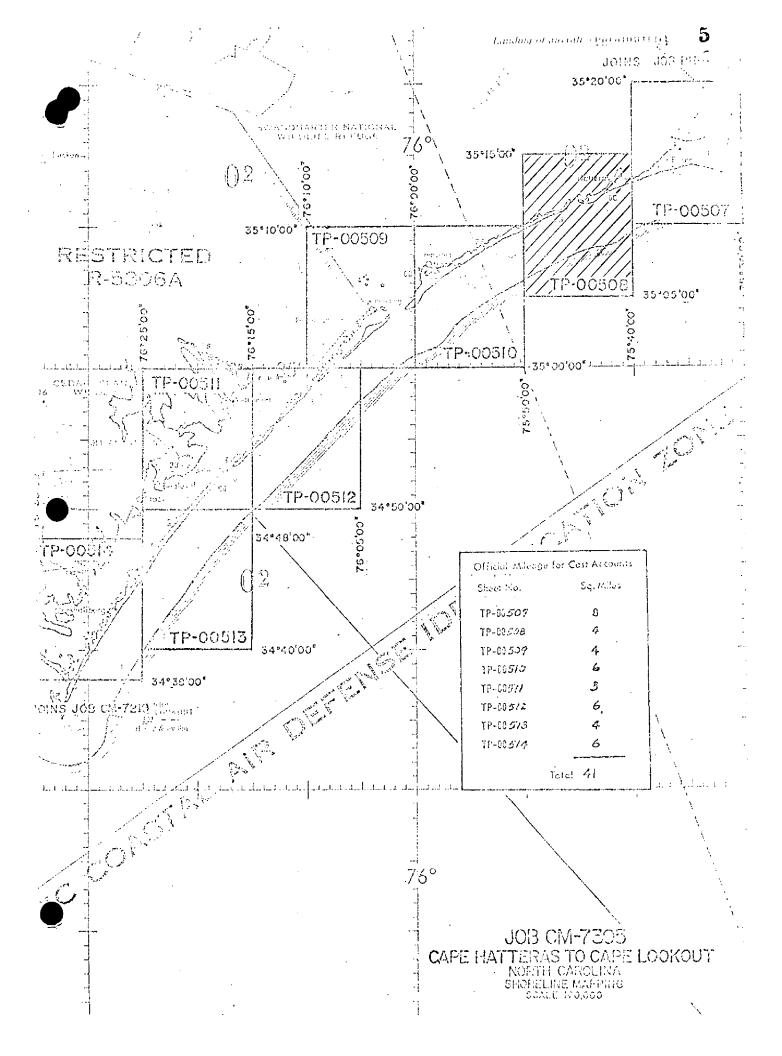
OÁA FORM 76-36A U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	TP-00508
	☑ ORIGINAL	MAPEDIT	ION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLAS	s Final Review
	REVISED	JOB	PH- CM-7305
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP ED	TION
	TYPE OF SURVEY		PH
Coastal Mapping Division, Norfolk, VA	ORIGINAL	MAP CLAS	
FFICER-IN-CHARGE	RESURVEY	SURVEY D	DATES:
Jeffrey G. Carlen, CDR	☐ REVISED	19TO 1	9
. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	
Aerotriangulation Sep. 3, 1974	Jan. 10, 1974		
Compilation Nov. 6, 1974	Mar. 5, 1975		
I. DATUMS			
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)		
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	*	
. MAP PROJECTION	4.	GRID(S)	
Polyconic Lambert Conformal	STATE North Carolina	ZONE	
1:20,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS			
	NAME		DATE
OPERATIONS 1. AFROTRIANGULATION BY	M. McGinley		Oct, 1974
I. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Robertson		Oct, 1974
метнор: Сајсомр снескер ву			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	L. O. Neterer		Feb, 1975
COMPILATION CHECKED BY	G. Vanderhaven		Feb, 1975
INSTRUMENT: WILD B-8 CONTOURS BY	NA		Feb, 1975
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:15,000 CHECKED BY	NA NA		
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:15,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	NA NA C. Parker		Feb, 1975
INSTRUMENT: WILD B-8 SCALE: 1:15,000 CHECKED BY CHECKED BY	NA NA C. Parker A.L. Shands		
INSTRUMENT: Wild B-8 SCALE: 1:15,000 CHECKED BY CHECKED BY CHECKED BY CONTOURS BY	NA NA C. Parker A.L. Shands		Feb, 1975
INSTRUMENT: Wild B-8 SCALE: 1:15,000 CHECKED BY MANUSCRIPT DELINEATION METHOD: SMOoth drafted CONTOURS BY CHECKED BY CHECKED BY CHECKED BY	NA NA C. Parker A.L. Shands NA NA		Feb, 1975
INSTRUMENT: Wild B-8 SCALE: 1:15,000 CHECKED BY CHECKED BY CHECKED BY CONTOURS BY	NA NA C. Parker A.L. Shands NA NA		Feb, 1975
INSTRUMENT: Wild B-8 SCALE: 1:15,000 CHECKED BY CHECKED BY CHECKED BY CONTOURS BY CHECKED BY CONTOURS BY CHECKED BY	NA NA C. Parker A.L. Shands NA NA		Feb, 1975
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INSTRUMENT: WILD B-8 SCALE: 1:15,000 4. MANUSCRIPT DELINEATION METHOD: SMOOTH drafted SCALE: 1:20,000 CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY CHECKED BY APPLICATION OF FIELD EDIT DATA CHECKED BY CHECKED BY	NA NA C. Parker A.L. Shands NA NA NA NA D. Butler F. Margiotta F. Margiotta		Feb, 1975 Feb, 1975 Feb, 1975 Apr, 1975 May, 1975 May, 1975
INSTRUMENT: WILD B-8 SCALE: 1:15,000 4. MANUSCRIPT DELINEATION METHOD: SMOOTH drafted SCALE: 1:20,000 5. OFFICE INSPECTION PRIOR TO FIELD EDIT 6. APPLICATION OF FIELD EDIT DATA 7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW CHECKED BY CONTOURS BY CHECKED BY CHECKED BY CHECKED BY CHECKED BY CHECKED BY CHECKED BY BY CHECKED BY	NA NA C. Parker A.L. Shands NA NA NA NA D. Butler F. Margiotta A. L. Shands		Feb, 1975 Feb, 1975 Apr, 1975 May, 1975 May, 1976 Oct., 1976
INSTRUMENT: WILD B-8 SCALE: 1:15,000 4. MANUSCRIPT DELINEATION METHOD: SMOOTH drafted SCALE: 1:20,000 CHECKED BY	NA NA C. Parker A.L. Shands NA NA NA NA D. Butler F. Margiotta F. Margiotta		Feb, 1975 Feb, 1975 Feb, 1975 Apr, 1975 May, 1975 May, 1975

IOAA FORM 76-36B 3-72)				NATIONAL OCE	EANIC AND A		: ADMINISTRAT
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. COMPILATION PHO	TOGRAPHY	<u> </u>				<u> </u>	
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74c(c) (1)8818 74c(c) (1)8884		Apr 1,74 Apr 3,74	14:20	1:60,00		2 ft. of 2 ft. of	
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- 721	TP-00508 HISTORY OF FIELD	NATIONAL OCEANIC AND AT	DEPARTMENT OF COMMER MOSPHERIC ADMINISTRAT NATIONAL OCEAN SURV
X FIELD INSPECTION OPER	ATION FIELI	DEDIT OPERATION	·
OPE	RATION	NAME	DATE
. CHIEF OF FIELD PARTY		R. Tibbetts	 Aug, 1974
	RECOVERED BY	R. Tibbetts	Aug. 1974
HORIZONTAL CONTROL	ESTABLISHED BY	R. Tibbetts	Aug. 1974
	PRE-MARKED OR IDENTIFIED BY	R. Tibbetts	Aug. 1974
	RECOVERED BY	NA	
VERTICAL CONTROL	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
RE	COVERED (Triangulation Stations) BY	None	
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	_None	<u> </u>
	IDENTIFIED BY	None	
	TYPE OF INVESTIGATION COMPLETE		
GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY		
	NO INVESTIGATION		Į
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA	
SOURCE DATA	30KVETED ON IDENTIFIED BY		
HORIZONTAL CONTROL IDE	TIFIED	2. VERTICAL CONTROL IDEN	TIFIED
•		NA NA	
HOTO NUMBER	STATION NAME	PHOTO NUMBER ST	ATION DESIGNATION
4E(C)(1)4432 FERRY,	19/4		
PHOTO NUMBERS (Clarification	on of details)		
Non	e ·		•
LANDMARKS AND AIDS TO NA	AVIGATION IDENTIFIED		
Non	e		
HOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
GEOGRAPHIC NAMES:	REPORT X NONE	6 BOUNDARY AND LIMITS	
SUPPLEMENTAL MAPS AND I		6. BOUNDARY AND LIMITS:	REPORT X NONE
. No			•
OTHER FIELD RECORDS (Ske	tch books, etc. DO NOT list data submit trol Station Identificat		

NOAA FORM 76-36C (3-72)	TP-00508 HISTORY OF FIELD		NIC AND ATMOSPHER	ENT OF COMMERCE IC ADMINISTRATION IAL OCEAN SURVEY
I FIELD INSPECTION OPER	ATION X FIELD	DEDIT OPERATION		
OPI	ERATION		NAME	DATE
I, CHIEF OF FIELD PARTY		R.S. Tibbet	+c	Apr;1, 1975
<u> </u>	RECOVERED BY	R.S. Tibbet		April, 1975
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	R.E. Kessel	ring	April, 1975
<u> </u>	RECOVERED BY	NA		
3. VERTICAL CONTROL	ESTABLISHED BY	NA		
·	PRE-MARKED OR IDENTIFIED BY	NA		
RE	COVERED (Triangulation Stations) BY	R.S. Kessel	ring	April, 1975
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None	<u> </u>	
AIDS TO NAVIGATION	(DENTIFIED BY	R.S. Kessel	ring	April, 1975
	TYPE OF INVESTIGATION	·	•	1
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE			
	SPECIFIC NAMES ONLY			
	[X] NO INVESTIGATION	R.S. Kessel	-1na	Ann: 1 1075
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY		i riig	April, 1975
7. BOUNDARIES AND LIMITS 11. SOURCE DATA	SURVEYED OR IDENTIFIED BY	N. A.		<u> </u>
1. HORIZONTAL CONTROL IDE	NTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
			·	
3. PHOTO NUMBERS (Clarification) 74C(C)(1) 8885 4. LANDMARKS AND AIDS TO N				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
BEACO	RAS INLET STATION RADIO		,	
74C(C)(I)8885 TANK				
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPO	RT NONE
7. SUPPLEMENTAL MAPS AND	PLANS			
None				
8. OTHER FIELD RECORDS (Ske I Field Edit Ozalid I Field Edit Report	tch books, etc. DO NOT that data submite 2 Form 526a Recover 2 Form 152 Control 6 Form 76-40 Nonflo	y Note Station Iden	tification	

NOAA FORM (3-72)	i 76-36D			TP-00508 N	ATIONAL OC	EANIC /	U. S. DEP/ AND ATMOS!	ARTMEN PHERIC	NT OF COMMERCE ADMINISTRATION
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I. MANUSCR									
		MPILA	ATION STAGES	T			1		PT FORWARDED
0.4	ATA COMPILED	 	DATE	RE	EMARKS		MARINE CI	HARTS	HYDRO SUPPORT
•	tion complete, field edit	Fe	ь, 1975	Class III'	manuscri	ipt	Mar 7,	<u> 1975</u>	Feb 24, 75
	dit applied tion complete	Ар	r, 1975	Class Ma	anuscrip!	<u>t</u>	May 12,	, 197 <u>5</u>	
Final P	Re view	00	t.,1976			_	Feb. 8	, 19	77
	RKS AND AIDS TO NAVIGA		·						
1. REPOF	RTS TO MARINE CHART DI	VISIO		DATA BRANCH					
NUMBÉR	CHART LETTER NUMBER ASSIGNED	FC	DATE ORWARDED	<u> </u>	<u> </u>	REM	1ARKS		
1 1		Ma	y 15, 75	Landmark	for Chái	rts_			
1		Ma	y 15, 75	Aids for	Charts				
]		Ma	y 15, 75	Landmarks	s for de	letio	n		
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	EPORT TO MARINE CHART								
	AL RECORDS CENTER DAT								
2. [X]c∈ 3. [X]sc	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTIF SOURCE DATA (except for Ga ACCOUNT FOR EXCEPTION	IFICAT Boograp	TION CARDS;	X FORM NOS	S 5637 SÜBMIT	TTED BY	Y FIELD PA	RTIES.	
4 🗀 🗈	DATA TO FEDERAL RECOR	₹DS C	ENTER, DAT	E FORWARDED:			-	<u></u>	_
IV. SURVEY	Y EDITIONS (This section sh	hall b	e completed ea	ch time a new ma	p edition is re	egistered	i)		
	SURVEY NUMBER	721	JOB NUMBER			_	TYPE OF SI		
SECOND	TP -	_ (2)	PH		1	∐ K¢	VISED		SURVEY
EDITION	DATE OF PHOTOGRAPH	, Y	DATE OF FIE	ELD EDIT	 □15.	П.,,	MAP CLA	ASS V.	FINAL
	SURVEY NUMBER		JOB NUMBER				TYPE OF SU		L. P. Dens
THIRD	ТР	(3)	PH					RES	URVEY
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	SURVEY NUMBER		JOB NUMBER	a			TYPE OF SU	JRVEY	
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00507 thru TP-00514

Project 7305 is the most northerly of several projects which make up the Southern Coastal Plains Expedition (SCOPE). It consists of eight (8) 1:20,000 scale manuscripts covering the outer coastline from Cape Hatteras south to a position just north of Cape Lookout. The original instructions dated November 6, 1974 Item 5.01 called for the compilation of "standard shoreline maps". None of the manuscripts in this project can be considered "standard shoreline maps" because in each case only the outer shoreline which borders the Atlantic Ocean was delineated.

To facilitate bridging and the setting of stereo models on the Wild B-8 stereo-plotter it was necessary to fly photography at 1:15,000, 1:20,000 and 1:30,000 scales because most of the area consists of a very narrow coastal band. In addition, 1:60,000 scale tide coordinated photography was flown at mean high and mean low water from which the mean high and mean low water lines were graphically delineated. (See Item 31 of the Compilation Report). All photography was taken with the RC-8 and RC-10 cameras using color infrared film.

Field work prior to compilation consisted of premarking and recovery of horizontal control for bridging and the observation and recording of tide data.

Bridging was done in the Rockville office using the Wild STK-1 in October, 1974. Ratio prints of the 1:60,000 scale tide coordinated photography were ordered at that time.

Compilation was done at the Atlantic Marine Center in April, 1975. Models of the bridging photography were set on the Wild B-8 stereo-plotter from which details above the MHWL were compiled and points common to the tide coordinated ratios were dropped. The MHWL and MLWL were delineated graphically using the tide coordinated ratios supplied for that purpose.

Field edit was accomplished during February through April, 1975.

Final review was done in October, 1976 at the Atlantic Marine Center.

The original stabilene base manuscripts, each 10 minutes in latitude and 10 minutes in longitude, were forwarded to the Rockville office for reproduction of registration copies.

No field inspection report was submitted.

PHOTOGRAMMETRIC PLOT REPORT

Job CM-7305

Cape Hatteras to Cape Lookout

North Carolina

October 1974

21. Area Covered

This project covers the shoreline from Cape Lookout to just north of Cape Hatteras. Included are eight T-sheets (TP-00507 thru TP-00514). All sheets are 1:20,000 scale.

22. Method

Five strips of color IR photography with varying scales were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 1 (1:15,000 scale) was adjusted on four field-identified triangulation stations with one additional triangulation station and two tie points as checks. Strip 2 (1:20,000 scale) was adjusted on five field-identified triangulation stations with three additional triangulation stations and six tie points as checks. Strip 3 (1:30,000 scale) was adjusted on three field-identified triangulation stations with one additional triangulation station and four tie points as checks. Strip 4 (1:30,000) was adjusted on four field-identified triangulation stations and one tie point with five additional triangulation stations and nine tie points as checks. Strip 5 (1:15,000 scale) was adjusted on three field identified triangulation stations and one tie point with seven additional triangulation stations and five tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:20,000 scale ratios were ordered.

23. Adequacy of Control

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

25. Photography

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

 Submitted by:

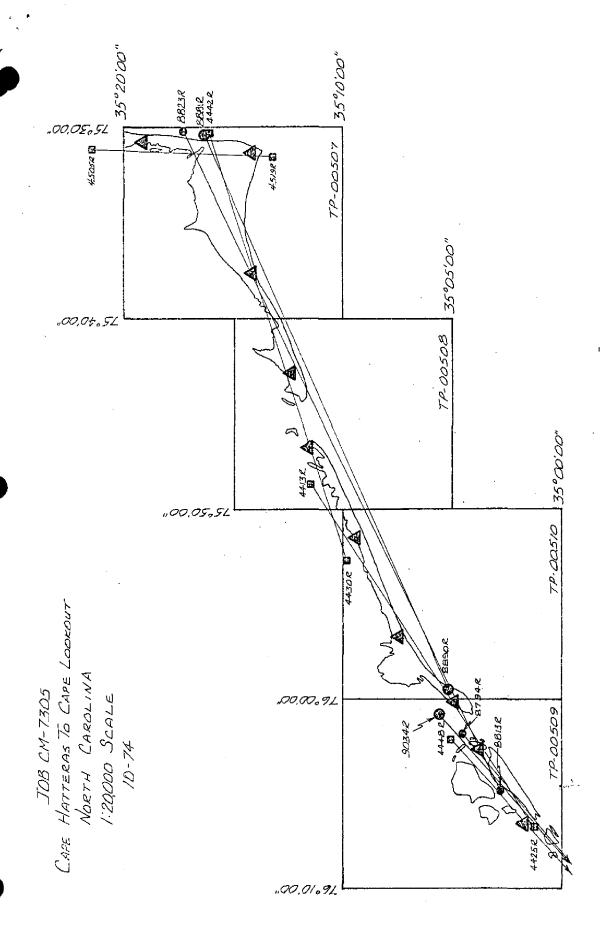
The Michael D. McGinley

Note to Compiler

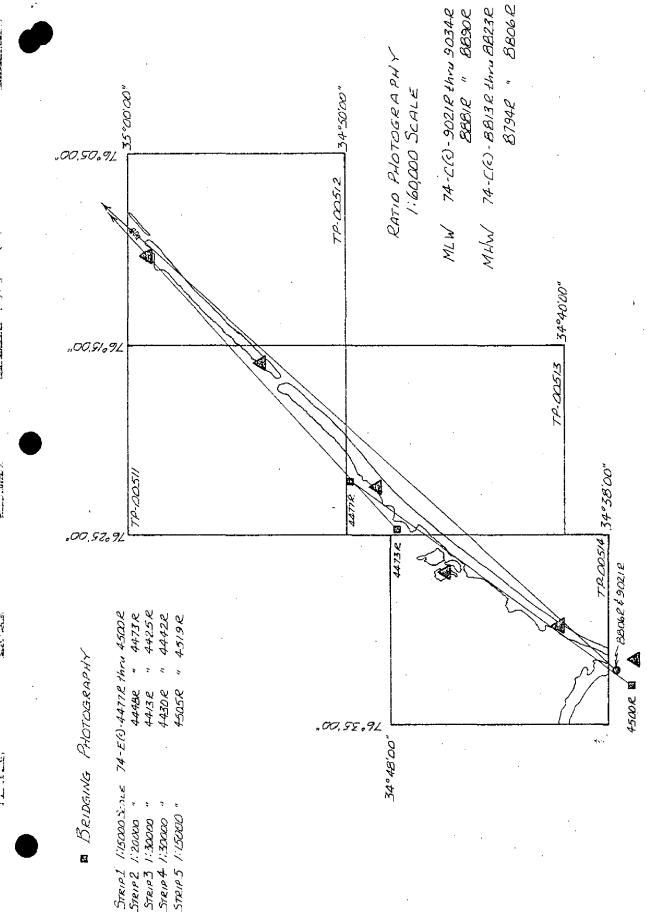
Strip 3 could not be bridged beyond model 74-E(C)-4420/4421. Image points were selected for pass points on photo 4421 to be used for scaling and orientating the photo for delineating the point of land not covered in the bridge. The image points selected are pricked on contact print 4421. A ratio photo of 4421 was ordered at 1:20,000.

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Charles Comments

Santan Charles

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NOAA FORM 76-41 (6-75)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	S. DEPARTMENT CATMOSPHERIC ADM	F COMMERCE
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD			
MAP NO.	ON BOL		GEODETIC DATUM	ORIGINATING ACTIVITY		Manning
TP-00508	CM-7305		N.A. 1927	ion,	Norfolk, VA	6
STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE	GEOGRAPHIC POSITION	REMARKS	RKS
	(Index)	POINT NUMBER	ZONE		FORWARD	BACK
	Field Comp.		x= 539,421.75	0	9421.75	(578.25)
FERRY, 1974	164, P. 3 of 5		y= 2,961,788.98	γ	1788.98	(8211.02)
	G. P. Vol 111		χ=	φ 35 10 27.72880	854.5	(994.5)
REEN, 1962	P. 3078	-	y=	λ 75. 48 05.53379	1140.0	(1378.3)
	6 P Vol 111		χ=	φ 35 11 50.89308	1568.4	(280.6)
LOOKOUT, 1962	P. 3081		η= 1	λ 75 43 57.44811	1453.3	(9,49)
	G. P. Vol 111		χ=	φ 35 12 21.66729	667.7	(1.181.3)
MP 54.5 (NPS), 1962	P. 3082		y=	λ 75 42 11.08217	280.3	(1237.4)
CAVID	111 (0)/ (4.5)		<i>=</i> χ	\$ 35 12 27,21126	838.6	(1010.4)
	P. 3093		y=	λ 75 42 22.03726	557.4	(960.3)
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			y=	γ		
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COMPUTED BY A. C. Rauck, Jr.		DATE 11/7/74	COMPUTATION CHECKED BY F. Margiotta		11/8/74	
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.]

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COMPILATION REPORT TP-00508

31. DELINEATION:

Models of the area were set on the Wild B-8 stereoplotter using 1:30,000 scale photography. Ratios of the 1:60,000 scale tide controlled photography was also provided. Common points were dropped in the models and pricked on the ratios. These points provided control needed for the graphic delineation of the mean high water line and the mean low water line from the tide controlled ratios. There was no field inspection prior to compilation.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated October, 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. No drainage was delineated.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs. See Item 31 above.

36. OFFSHORE DETAILS:

The photography was of sufficient scale and quality to allow the delineation of several offshore shoal areas and the positioning of several navigational aids.

37. LANDMARKS AND AIDS:

Copies of Form 76-40 were forwarded to the field editor for additions, deletions and verifications.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, Item No. 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following U.S. Geological Survey Quadrangles: Hatteras and Green Island, N. C., scale 1:24,000, dated 1950, photorevised, 1970.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: 11555, scale 1:80,000, 21st edition, dated August 31, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

A. L. Shands Cartographer

February 21, 1975

4. L. Shands

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

albut c. Rauch h.

ADDENDUM TO THE COMPILATION REPORT

TP-00508

FIELD EDIT

Field edit was adequate.

22 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7305 (Cape Hatteras to Cape Lookout, N.C.)

TP-00508

Atlantic Ocean

Hatteras Inlet

Hatteras Island

Ocracoke Island

Raleigh Bay

Styron Hills

Tar Hole Plains

Hatteras

Approved

Chas. E. Harrington

Staff Geographer--C51x2 7

NOAA FORM 75-74				U.S. DEPARTMENT OF COMMERCE				
(2-74)	PUA	TOCDAMMET	RIC OFFICE REVIEW	NOAA NATIONAL OCEAN SURVEY				
	FHU							
	T. a	<u>TP</u>	1 0363 -00508					
1. PROJECTION AND GRIDS	2. TITLE	ı	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE				
ALS	ALS		ALS	ALS				
CONTROL STATIONS								
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF	6. RECOVERAL	BLE HORIZONTAL STATIONS IAN THIRD ORDER ACCURACY	7. PHOTO HYDRO STATIONS				
ALS		(Topographic		NA				
8. BENCH MARKS	9. PLOTTING C	F SEXTANT	NA 10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS				
NA	l xx		ALS	GV				
ALONGSHORE AREAS (Nautical	Chart Date)		<u> </u>					
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES				
ALS	ALS		ALS	xx				
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES				
ALS	ALS		ALS	XX				
PHYSICAL FEATURES			<u> </u>					
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS				
XX			NA	NA				
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES				
NA	NA		NA	xx				
CULTURAL FEATURES								
27. ROADS	28. BUILDINGS		29. RAILROADS	-30. OTHER CULTURAL FEATURES				
ALS	XX		XX	XX				
BOUNDARIES								
31. BOUNDARY LINES			32. PUBLIC LAND LINES					
	NA	···	<u></u>	NA				
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		35. LEGIBILITY OF THE				
33, GEOGRAPHIC NAMES		JAA JUNCTION	15	MANUSCRIPT				
ALS			ALS	ALS				
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS				
ALS	ALS		ALS	ALS				
40. REVIEWER U.S.h	onds		SUPERVISOR, REVIEW SECT					
Arnold L. Shands		1975	A. C. Rauck, J	Kauch J.				
-			<u> </u>					
41. REMARKS (See attached shee FIELD COMPLETION ADDITION		TIONS TO THE A	MANUSCRIPT					
	furnished by th	e field complet		to the manuscript. The manu-				
COMPILER David Po But	tler Apr	30, 1975	SUPERVISOR	and a				
Reviewer: F. Margio	offer.	1975	A. C. Rauck, Jr	nauon y .				
43. REMARKS								
For sources of t	field edit	data refer	to Form 76-36C (fi	eld edit)				
I				1				

FIELD EDIT REPORT
CAPE LOOKOUT TO CAPE HATTERAS, N.C.
JOB CM 7305
MAP TP-00508

52. Adequacy of Compilation

Compilation was adequate. The MHWL was accepted as compiled according to instructions received from the Chief, Coastal Mapping Division, dated May 28, 1974. Norsignifigant shoreline changes were noted during field edit. The shoreline near Hatteras Inlet is subject to continual change and was correctly labeled on the map. The two "wrecks" questioned near Okracoke Island were left for the hydrographer as no adequate equipment to perform the investigation was available to the field editor.

54. Recommendations

None

55. Examination of Proof Copy

Geographic Names

Request for individual names investigations on this map were ignored due to the fact that geographic names for this area will be the subject of a special report to be performed during the fall of this year.

56. Landmarks and non-Floating Aids to Navigation.

One nautical landmark for this map was overlooked during compilation It was visible on the photograph, and was indicated on the field edit ozalid and entered on forms 76-40 and 76-53 which are included with this report.

A new fixed aid, Hatteras Inlet Light, has been established on top of a former nautical landmark. The landmark, a "Lookout Tower" (LOOKOUT 1962), was deleted on form 76-40 and the new aid entered on another 76-40. The aid was indicated on the field edit ozalid and cross-referanced to form 76-53. Five fixed aids to navigation were compiled. Four of them were extant at the time of field edit and entered on form 76-40 as "position verified". The fifth aid, Hatteras Inlet South Terminal Light 3, was not extant at the time of the field edit and was deleted on form 76-40.

57. Rocks, Reefs, and Shoals.

There are no rocks or reefs, as defined, within the compiled limits of this map. There are several shoals in Hatteras Inlet. As they are constantly changing, their delimitation was accepted as compiled.

58. Photography.

Photography consisted of 1:20,000 ratio prints of color infrared photographs. The prints were of poor resolution and made field identification difficult.

59. Disposition of Data.

The field editiozalid, the film ozalid, the photographs and all pertinent data were sent to the Director, Atlantic Marine Center for proper dissemination.

Richard E. Kesselring Surveying Technician Photo Party 62 April 18, 1975 To charts 5 hy 25

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	Caroli	m seaward	DAT		0	3,	e tad	PERMITTERS OF PARTIES - IL TOYOU							
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5 Form 567.		ects			(Record r Show tric	Hat	4ic This								
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* Hatteras Inlet South Terminal Light 9 * No position available, Cannot be positioned photogrammetrically. This is not a charted aid, although it is listed in the 1975 Light List.		LIGHT	Hatter	Inlet Channel	ght (11 Swarded)		55.94	75-UL	39.93	= =	1 11	ш
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REVIEW REPORT TP-00508

SHORELINE October 21, 1976

61. GENERAL STATEMENT:

See Summary which is Pages 6 and 6a of this Descriptive Report.

A comparison print showing the differences noted in Paragraphs 62, 63 and 65 is included with the original of this report.

During the course of final review, it was discovered that several small sandy islands exist at Hatteras Inlet. These were symbolized on the Class I Manuscript as mere shoals with the standard dotted line symbol. Both the symbolization and positions of these features were changed on the final reviewed map. As justification, these facts are offered:

- The features are shown on the latest Charts and U.S.G.S. Quad of the area as islands with fast shoreline symbolization.
- 2. Very strong and definite images of the features appear on the tide coordinated color infrared photography taken at mean high water from which the mean high water line was graphically compiled.
- 3. No photogrammetric pass points had been established in the area to serve as control for the graphic delineation of the features.
- 4. Ratios covering the area $\sqrt{(74C(C)(I)8818}$ and 74 C(C)(I)8819)7 were very small with a scale factor of .9644.

5. Realizing the possibility of placement errors which could result from this combination of factors, this reviewer employed the use of the 70A Portable Autofocusing Reflecting Projector to fit the ratio to the map scale using existing pass points as control. This resulted in a shift in the positions of the features from that shown on the Class I Manuscript.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-8616 n/2, T-8716 s/2 and T-8717 s/2, all 1:10,000 scale, dated 1947. Significant differences are noted on the comparison print in blue pencil.

In the area compared, TP-00508 supersedes the above mentioned surveys which are the latest registered prior surveys of the area.

The position of the piers, buildings and tower as they appear on T-8716 s/2 at Hatteras Inlet compares well with the two foul areas shown on Chart 11555. Each of these however, differ slightly with the two foul areas identified on cronapaque ratio 74 C(C)8885(I) by the field editor. It is suggested here that the features shown on T-8716 s/2 are in fact the source of the ruins, etc. currently charted and that the positions shown on the chart are probably more accurate than those shown on this map. The ruins are not visible on the photographs. The field editor did not use field methods to locate them. It is therefore, quite possible that his photo locations are in error.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Hatteras, N.C. and Green Island, N.C., each scaled 1:24,000, dated 1950, photorevised 1970.

Significant differences are noted on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. The contemporary hydrographic surveys were not available at the Atlantic

Marine Center at the time of final review. This reviewer was told by the Verification Branch, Atlantic Marine Center, that these surveys do not include inshore soundings above 14 feet and therefore, would not give a good comparison.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11555, 22nd edition, dated September 6, 1975, scaled 1:80,000. Significant differences are noted on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Office Instructions, CM-7305, dated November 6, 1974, except that it is not a standard shoreline map (See first paragraph of Summary). This map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted: Armid L. Shands

Arnold L. Shands Cartographer

October 21, 1976

Approved for forwarding:

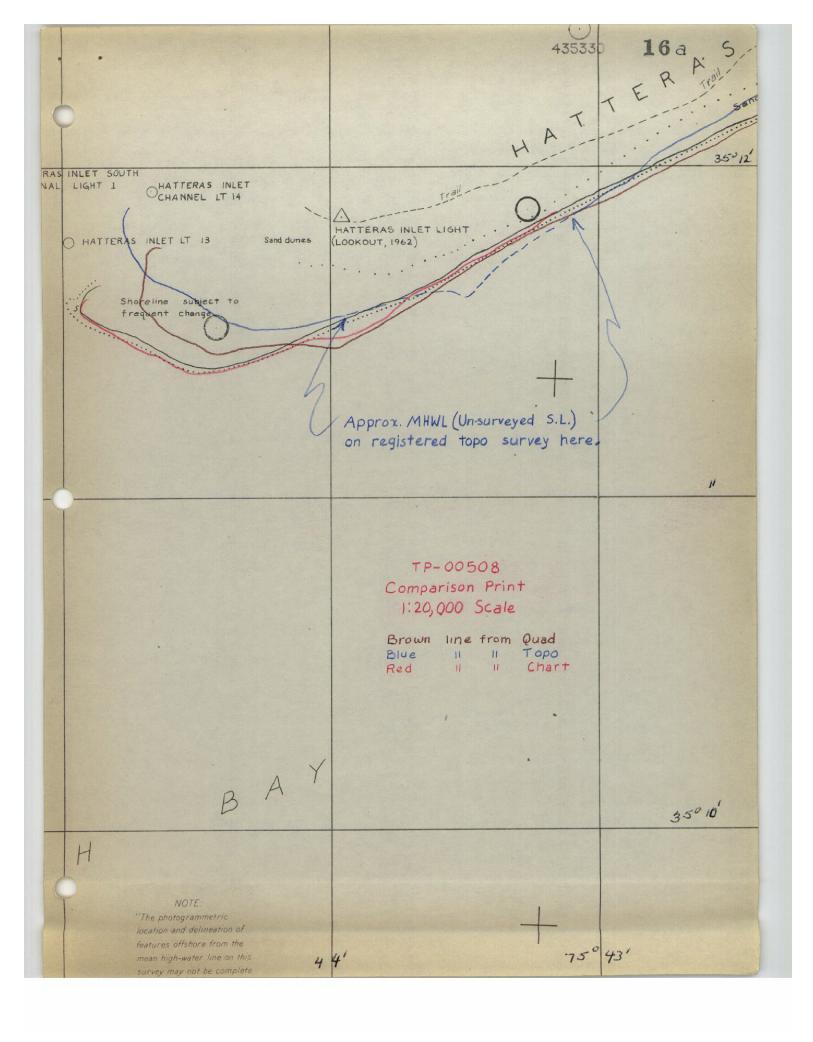
Goseph W. Vonasek

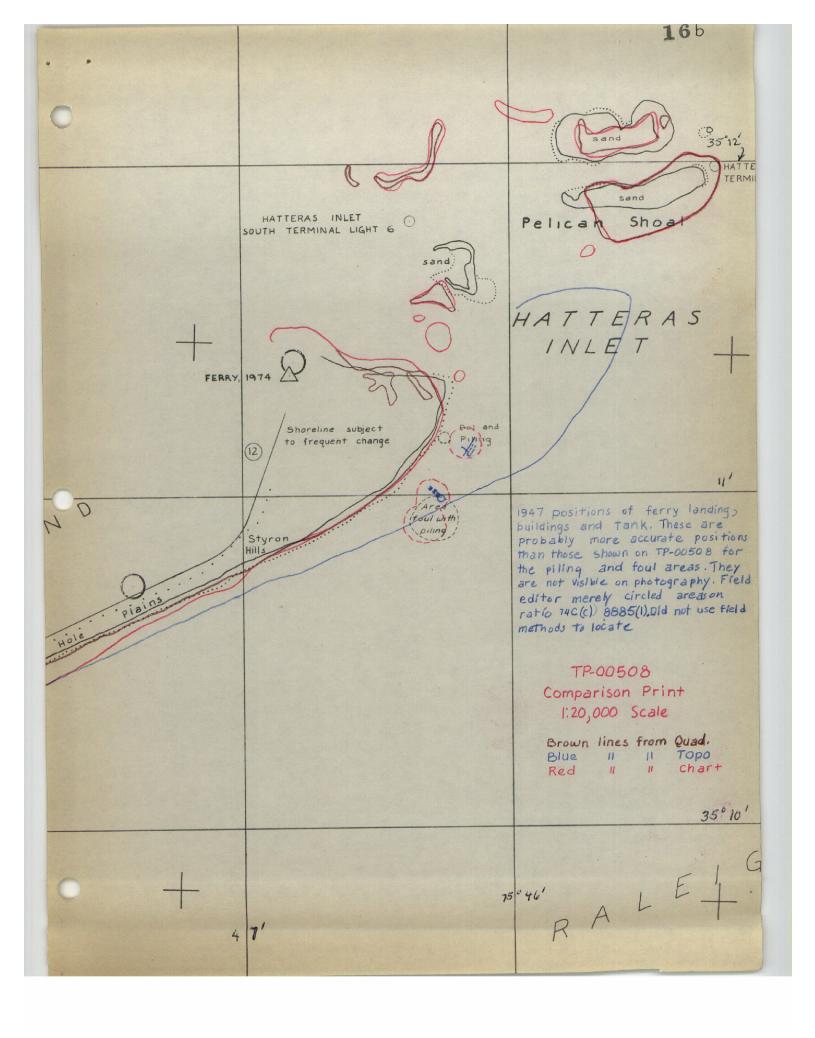
Chief, Photogrammetric Branch, AMC

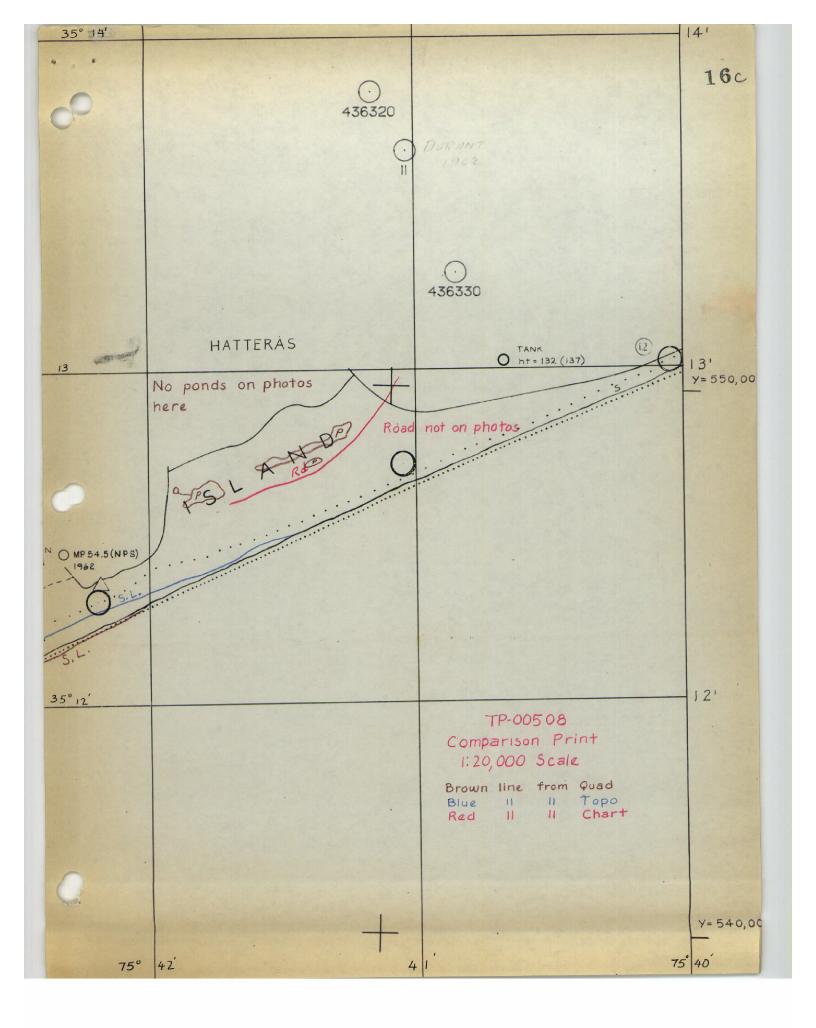
Approved:

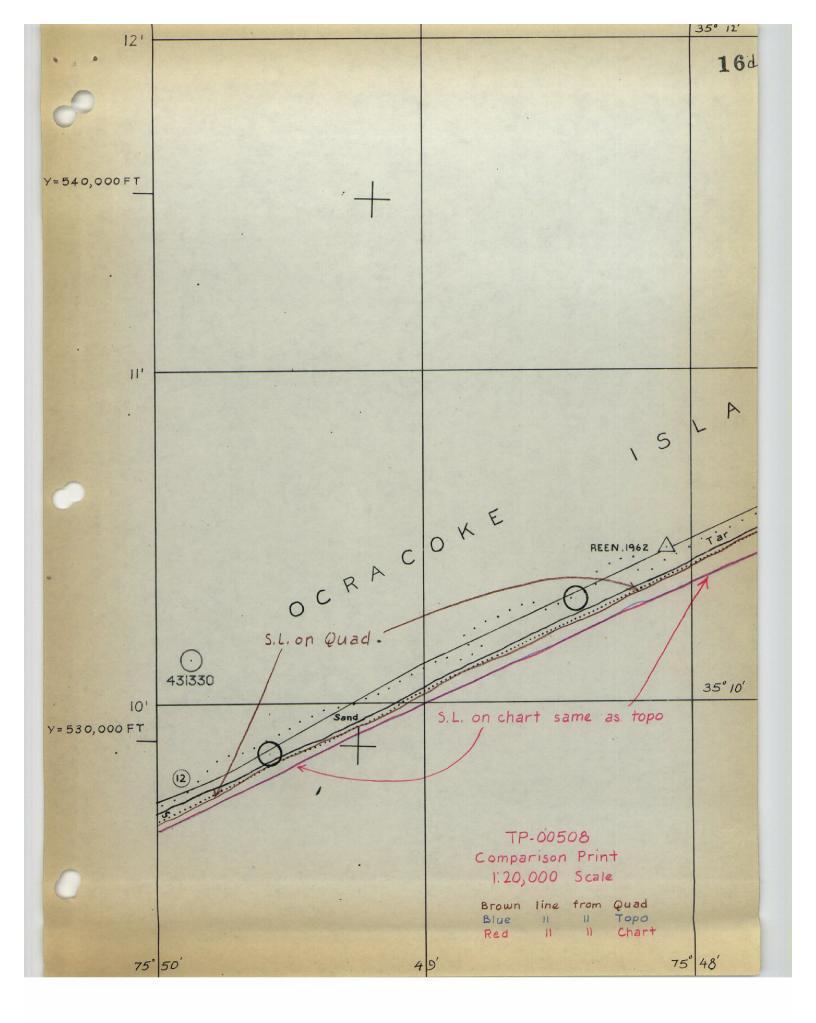
Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.









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FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP - 00 508

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
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