F 12517

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

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General Locality LocalityBoca	Florida Chica Cl	Keys hannel			
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REGISTRY IN ARCHIVES					

★ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TF. 12517		
		ORIGINAL .	MAPEDITION NO. (1)		
DESCRIPTIVE REI	PORT - DATA RECORD	T RESURVEY	MAP CLASS III		
·		☐ REVISED	JOB PH- 6404		
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDITION		
Deskuille Manula	n d	TYPE OF SURVEY	JOB PH.		
Rockville, Maryla	<u>.</u>	D ORIGINAL	MAP CLASS		
OFFICER-IN-CHARGE		RESURVEY	SURVEY DATES:		
Commander James C	Collins	☐ REVISED	19TO 19		
1. INSTRUCTIONS DATED					
1.	OFFICE	2.	FIELD		
Project PH-6404, Key West to Sugar Dated May 18, 196		Project PH-6404, Shoreline Map- ping, Key West to Sugarloaf Fla., dated November 22, 1963 Amendment I, dated Feb. 6, 1964			
II. DATUMS		OTHER (Specify)			
1. HORIZONTAL:	XX 1927 NORTH AMERICAN	(speaky)			
2. VERTICAL:	**X MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)			
3. MAP PROJECTION		4.	GR(D(S)		
Polyconic		STATE	ZONE		
5. SCALE		Florida	East		
1:10,000		, state	ZONE		
III. HISTORY OF OFFICE OPERA	ATIONS		<u> </u>		
OPE					
	RATIONS	NAME	DATE		
I. AEROTRIANGULATION	RATIONS BY	R. Kelly	7/64		
метнор: Analog	BY LANDMARKS AND AIDS BY	R. Kelly Inapplicable	7/64		
METHOD: Analog 2. CONTROL AND BRIDGE POIN	BY LANDMARKS AND AIDS BY ITS PLOTTED BY	R. Kelly Inapplicable J. Richter	7/64		
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NOAA FORM 76-36B (3-72)			NATIONAL OCEAN	IC AND ATMOSPHER	ENT OF COMMERCE IC ADMINISTRATION IAL OCEAN SURVEY		
T-12517	CO	MPILATION \$	OURCES	NA TON	AL COLAN JONAL I		
1. COMPILATION PHOTOGRAPHY							
CAMERA(S) S&W RC-8			PHOTOGRAPHY EGEND	TIME REFERENCE			
TIDE STAGE REFERENCE X PREDICTED TIDES REFERENCE STATION RECORDS X TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCH (I) INFRAF	 ROMATIC	Eastenn MERIDIAN 75th	STANDARD X		
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE (OF TIDE		
63W1985 - 1990	10/12/63	1624	1:30,000	The stage of tide is inapplicable for the color photography.			
64S581AR - 587AR	11/18/64	0857	1:30,000	0.1 below MHW at Ninefoot shoal Lig house Tide Gage			
REMARKS	·- 	1		1			
The source of the coordinated infrare	meanhigh wa				e tide-		
3. SOURCE OF MEAN LOW-WATER	OR MEAN LOWER L	OW-WATER LINE	:				
There is no mean lo	ow water li	ne shown	on this map	•			

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NU	IMBER	DATE(S)		SURVEY COPY USED
5. FINAL JUNCTIONS							
NORTH T-12514	EAST T-12	518		No col Survey	ntem-	WEST	1251(PH_6003)

porary Survey

REMARKS

T-11251(PH-6003)

ESSA FORM 76-36c (2-70)	:		ENVIRONMEN	TAL SCIENCE SERVIC			
		UKTABY AE ELELA	ODEDATIONS	COAST AND	O GEODETIC SURVEY		
T-12517	T-12517 HISTORY OF FIELD OPERATIONS						
1. M FIELD INSP	ECTION OF	PERATION FIELD	D EDIT OPERATION				
		OPERATION		NAME	DATE		
1. CHIEF OF FIE	LD PARTY		George E.	Varnadoe	6/64		
2 11001701741	CONTROL	RECOVERED BY					
2. HORIZONTAL (CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY			 		
		RECOVERED BY			- 		
3. VERTICAL CO	NTROL	ESTABLISHED BY					
i		PRE-MARKED OR IDENTIFIED BY					
		RECOVERED (Triangulation Stations) BY					
4. LANDMARKS A		LOCATED (Field Methods) BY					
AIDS TO NAVIO	GATION	IDENTIFIED BY					
		TYPE OF INVESTIGATION					
5. GEOGRAPHIC I		CÔMPLETE BY	·				
INVESTIGATIO	N	SPECIFIC NAMES ONLY	Refer to S	Summary			
		NO INVESTIGATION	Refer to		 		
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY					
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	<u></u>		<u> </u>		
1. HORIZONTAL		DENTIFIED	2. VERTICAL CONTROL IDENTIFIED				
		•					
PHOTO NUMBER	Ţ	STATION. NAME	PHOTO NUMBER	STATION DE	ESIGNATION		
	Refer	to field inspection					
	repo	_					
) Topo						
3. PHOTO NUMBERS (Clarification of details)							
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED					
			·				
PHOTO NUMBER OBJECT NAME		PHOTO NUMBER	OBJECT	T NAME			
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			[
5. GEOGRAPHIC	5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE						
7. SUPPLEMENTAL MAPS AND PLANS							
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)							
			•				
ESSA FORM 76-36C	:				SCOMM-DC 46200-P70		

NOAA FOR (3-72)	M 76-36D		- <u></u>	ATIONAL OCE	ANIC A	U. S. DEPAR ND ATMOSPH	TMEN ERIC	IT OF COMMERCE
T-125	17	RECO	RD OF SURVE	Y USE		•		
I. MANUSC	RIPT COPIES							
	СО	MPILATION STAGE	\$			DATE MANU	JSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	`	MARINE CHA	RT5	HYDRO SUPPORT
There	is no record t	at copies	of this	map were	e su	mitted	to	the
Marine	Chart Division	prior to	Registra	tion.				
Сору	f registered m	ap submitt	ed 9/75		•			
II. LANDM	ARKS AND AIDS TO NAVIGA	TION		·				
1. REPO	RTS TO MARINE CHART D	VISION, NAUTICAL	DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	<u> </u>		REMA	ARKS		
No Fe	rms 76-40 subm	tted to t	he Marine	Chart I	oivis	sion		
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	REPORT TO MARINE CHART							
	REPORT TO AERONAUTICA		I, AERONAUTICAI	DATA SECTI	ON. DA	TE FORWAR	DED:	
III. PEDER	AL RECORDS CENTER DAT	• 🔦						
1.	BRIDGING PHOTOGRAPHS;	DUPLICATE	BRIDGING REPO	RT; CO	MPUTE	R READOUTS	ı	
2. 🗀	CONTROL STATION IDENT	FICATION CARDS;	FORM NO	S 567 SUBMIT	TED BY	FIELD PART	TES.	,
	SOURCE DATA (except for G ACCOUNT FOR EXCEPTION		eport) AS LISTED	IN SECTION II	, NOAA I	FORM 76-36C.		·
4. 🗀	DATA TO FEDERAL RECOR	RDS CENTER. DAT	E FORWARDED:					<u> </u>
IV. SURVE	Y EDITIONS (This section s			p edition is reg				
ere eur	SURVEY NUMBER	JOB NUMBE (2) PH -	i.R.		REV	TYPE OF SUR	-	URVEY
SECOND	DATE OF PHOTOGRAPI		IELD EDIT	 □π.	□ m.	MAP CLAS		FINAL
<u>.</u>	SURVEY NUMBER	ЈОВ МУМВЕ	R			YPE OF SUR		C) PINAL
THIRD EDITION	TP	(3) PH		1	REV		RES	URVEY
	CINDUCY MIMORE			<u>□</u> 11,	□ш.]v.	DFINAL

DATE OF FIELD EDIT

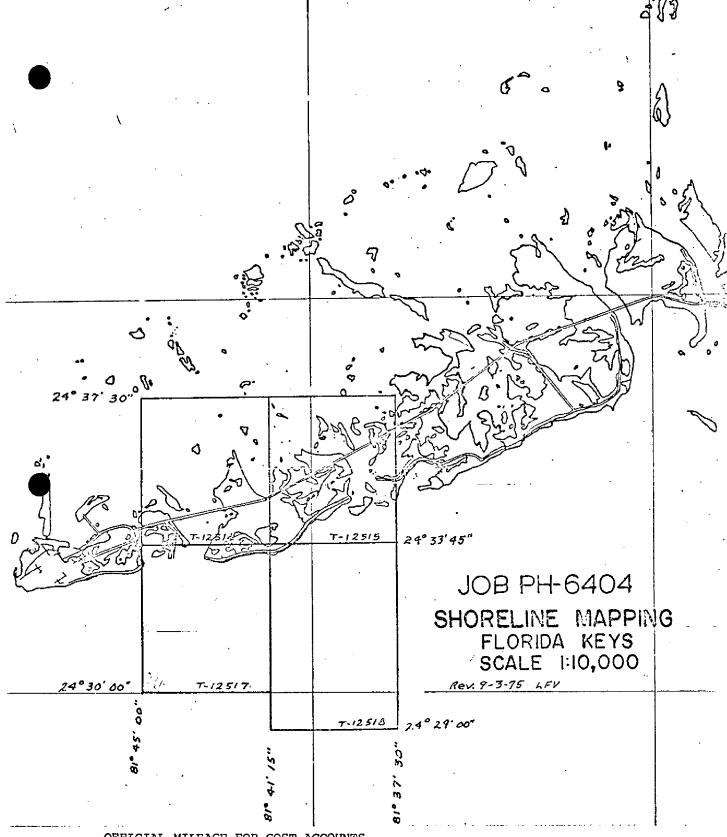
FOURTH EDITION

MAP CLASS

RESURVĖY

REVISED

□u.



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area Sq. Mi.
T-12514 T-12515 T-12517	4 5 1
T-12518	1

Summary for T-12514 and T-12515 T-12517 and T-12518

Project PH-6404 originally consisted of ten (10) 1:10,000 scale shoreline maps. Six of these maps are now cancelled from the project. The shoreline compilation for the remaining maps, T-12514, T-12515, T-12517, and T-12518, is incomplete and is discussed in their compilation reports. The index to adjoining maps will show the location of these maps.

These maps provided topographic information for nautical charts and hydrographic surveys.

The area is covered by aerial photography taken in 1963 and 1964 on color and infrared film. The infrared film was tide coordinated.

Field operations consisted of the photo-identification of horizon-tal control.

Horizontal control was extended by aerotriangulation (analog method) using the stereoplanigraph.

There was no field edit for these four maps.

The four Class III maps will be registered in the NOS Archives. The negatives for these maps are on file in the NOS Reproduction Division.

A field inspection was made for Project PH-6404 but was not available at the time of compilation. Since this area is presently being mapped by the NOS Cooperative Coastal Boundary Mapping Program and the maps were used only for hydrographic surveys, the field inspection will not be applied to the maps compiled in this project.

Field Inspection Report Ph-6404 Project 21417

Sheets T-12509 to 12518 inc.

2. Areal Field Inspection.

The area is best described by the photography. There are no areas of particular historical or other interest.

The photography is substandard. The definition is poor. The scale is inadequate for field inspection. In areas of congested cultural features, ratio prints were furnished and field inspection notes will also be found on these.

Nilky areas in water as labeled on photos 63W 1960 (T-12510) and 1975 (T-12514) is "coral silt" mixed in water. (In areas where there is little current this silt settles and is sometimes as much as 2 feet deep.) It does not indicate any change or certain depths in water.

3. Horizontal Control.

Two supplemental stations were established and identified for the plot. They are "Control Point Pelican" and "Control Point Mid Sambo." They were not permanently marked as they are located on rocks and sand bars that shift. These bars are on a reef about five miles offshore on the Atlantic side, one of which shifted about 30 feet overnight during calm weather.

The only known control in the area was established by this bureau, all of which was searched for and reported on form 526. Stations not recovered are: Beacon M, Sam, O'Hara, B 3 Battery, Perky Southwest Base, Perky Base A, Pel, Neck, North Snipe, Marvy, Hidhar, Chan (USAF), Chica, and Key West Coast Guard Signal Mast.

4. Vertical Control.

Only the recovery and identification of tidal bench marks is applicable to this project. Five sets of these bench marks are within the project limits. At least one in each set of four were recovered and identified. (ne

set, "Sandy Point, Boca Chica Key, Boca Chica Channel," on triangulation station and reference mark, "Chan 1934," is lost.

5. Contours and Drainage.

Inapplicable.

6. Woodland Cover.

Practically all woodland cover is mangrove ranging from low, scattered to dense swamp, some of which are fifty to sixty feet tall. The few areas of trees have been labeled.

7. Shoreline and Alongshore Features.

The greater percentage of the shoreline is apparent along the mangrove keys and islets. The small areas of MHWL (fast shoreline) have been labeled or indicated by symbols.

Vast areas in the bays near the gulf are very shallow flats, which bare at ELW. Sufficient areas have been labeled "Bare at ELW" or "Shallow" to enable the compiler to map similar areas by analogy. This also applies to areas of mangrove, scattered mangrove, etc.

The foreshore along the areas of fast shoreline is send and because of the small range of tide the NHVI and NLWI are separated by only a few feet horizontally, which hardly could be shown at 1:10,000 scale.

There are no bluffs or cliffs.

Piers, wherees and other shoreline structures have been labeled, and sketches made where necessary.

One submarine cable exists. It is alongside the bridge between Stock Island and Poca Chica Key. The end poles were identified og the photographs. The poles of everboad cables and wires along the other bridges were identified although the shallow water beneath is not navigable.

The areas Jaheled "speil" at the south end of Stock Island and the north end of Raccoon Key on ratio print

63W 1985 are dredged from the basins between these spoils. This spoil, which is principally linerock, is sold and trucked away. Consequently, these spoils vary in height from day to day.

One landing strip is in the project. It is at Perky in sheet 12513.

The overhead cables crossing Sugarloaf Creek and Saddlebunch Harbor, between Saddlebunch Key, Bird Island and Geiger Key, as shown on Chart 854 no longer exist. Along the line of the latter are the remains of old bridge pilings.

For the overhead power cable between Stock Island and Boca Chica Key, Chart 854 shows an authorized vertical clearance of 60 feet over the main channel and 25 feet elsewhere.

It was brought to the attention of the writer that a boat struck this cable, where it crosses the westernmost channel, on the mast about 18 feet above water. A detailed investigation of the actual clearance was made by the Florida Keys Engineering Inc. A copy of their report, with chart letter, has been submitted to the Mautical Chart Division.

8. Offshore Features.

All offshore features that could not be actually landed on were inspected from a boat at very close range, at, or very near MLW, and sufficient notes and labels made for accurate mapping. Features not discernible on the photographs, such as piles, were located by sextant fixes on photo points.

Landmarks and Aids.

Tandmarks were identified on the photographs and reported on form 567.

All aids to navigation in the project area are single piles and were located by sextant fixes and cuts from photopoints.

Day beacons 92 through 143 are pointers on wooden 2x2's that are stuck inside 2-inch iron pipes which are driven into the bottom. These aids were premarked and located by photogrammetric methods in 1958 and from appearances have not been moved since. Many have one or more short iron pipes alongside which supported the aid before rusting off.

Boundaries, Monuments and Lines.

The only boundary line in the project encompasses a golf course on Stock Island and is delineated on the photographs.

11. Other Control.

Mone

(ther Interior Features.

Roads and landmark buildings were classified on the photographs.

13. Geographic Names.

This is the subject of a special report which was submitted on 9 April, 1964.

Respectfully submitted,

George E. Varnadoe 23 June, 1964

Aerotriangulation Report

Florida Keys

PH-21417

21. Area Covered

This report covers the bridging of the area in T-sheets 12514, 12515, 12516, 12517 and 12518.

22. Methods

A horizontal bridge was run on the C-8 Zeiss Stereoplanigraph, to provide pass points for compilation of shoreline. The bridging photography consisted of 63 W(c) 1982 through 1993. The adjustment on the IBM-650 utilized 8 control stations with 2 control stations used as checks.

23. Adequacy of Control

Control positions were adequate for bridge adjustment. Although it was noted that Rey West Radio station WKWF and Key West Coast Guard station signal Mast. 1943 didn't have substitute stations. These would have been of value in adjusting this strip. The control station listed as Key West Coast Guard Station Signal Mast 1943 was found to be Key West Naval Storehouse Flagstaff. East Martello tower, 1909 substitute station 2 didn't hold in adjustment. Probable reason for station not holding is due to very poor image point.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by:

Robert B. Kelly

Approved by:

John D. Perrow. a

Florida Keys,

Project 21417

February 1965

Compilation Report for incomplete shoreline manuscripts T-12515, T-12517 and T-12518

The manuscripts were delineated by graphic method from infrared photography.

Subsequent stero-investigation of the color plates on the B-8 plotter revealed that an accurate delineation of the MHWL would be impossible with the color photos. The area is shallow (1-1 ft.) and the color looks into the water making shoreline determination poor at best.

Infra-red photography was flown at 1:30,000 scale at MHW on November 18, 1984. The color was set on the B-8 plotter and points common to the color and infra-red were pricked. Very few bridge points were visible on the infra-red photography.

The infra-red was ratioed and only the southern most shoreline has been delineated.

On manuscript T-12518 Pelican Shoal, Eastern Sambo and Middle Sambo were not shown as bridging was not available at this time.

The photography used was a single bridge strip of color, numbers 63 W 1985 thru 63 W 1990. Infra-red photography numbers 64 S 581 AR thru 64 S 587 AR was resected on to the manuscript and prepared for hydro support.

Geographic names were taken from Nautical Chart No. 854, 3rd edition June 22, 1964.

The buoys and day beacons were located from the 1963 color photography and should be checked.

Photo coverage was adequate.

Submitted by:

J. C. Richter

GEOGRAPHIC NAMES Ph 21417 (Boca Chica Fla.)

T-12518

Boca Chica Key Rocky Point

> A. J. Wraight Geographic Names Section

T-12514, T-12515, T-12517, and T-12518 National Archives Data

1 Green Jacket (bridging data)

1 Green Jacket (field data)

Field photographs:

63W1985, 1987, 1988, and 1989