original

TP-00107

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ..Coastal Boundary.....

Job No. PH-6716..... *Map No.* TP-00107...

Classification No. Final *Edition No.* ....1.....

Field Edited Map

LOCALITY

State .....Florida.....

General Locality ....Brevard County.....

Locality ..Klondike Beach to Middle.....

.....Banks.....

1967 TO 1970

REGISTRY IN ARCHIVES

DATE ..... MAY 16 1974

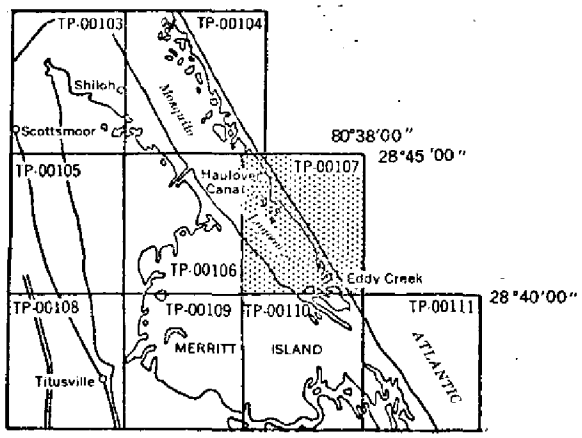
☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-893

TP-00107

SUPPLEMENTAL CONTROL DATA FOR COASTAL ZONE MAP

TP-00107

INDEX TO ADJOINING SHEETS



Florida

Brevard County

February 1973

2/28/73

Florida I

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

TIDAL BENCH MARKS

Eddy Creek (Mosquito Lagoon)
Lat. 28° 40'.6; Long. 80° 39'.0

BENCH MARK No. 1 (1970) is a standard disk, stamped "No. 1 1970", set flush in a concrete post, seven feet southwest of the centerline of the road. The mark is 2½ feet east of the east end of the dock and 2 feet south of a witness post. Elevation: 2.37 feet above mean water level.

BENCH MARK No. 2 (1970) is a standard disk, stamped "No. 2 1970", set flush in a concrete post, 15 feet north of the centerline of the road. The mark is 1.5 feet east of the witness post halfway between the road and Eddy Creek. Elevation: 4.07 feet above mean water level.

BENCH MARK No. 3 (1970) is a standard disk, stamped "No. 3 1970", set flush in a concrete post, 38 feet southwest of the centerline of the paved road. The mark is 33 feet southeast of the centerline of a dirt road, 1.8 feet north of a witness post and 1 foot below road level. Elevation: 4.27 feet above mean water level.

BENCH MARK No. 4 (1970) is a standard disk, stamped "No. 4 1970", set flush in a concrete post, 100 feet northeast of the centerline of a paved road. The mark is 30.5 feet northeast of the centerline of a sand road leading to the ocean. It is 1.5 feet north of a witness post and 4 feet above the level of the road. Elevation: 8.87 feet above mean water level.

BENCH MARK JLR 518 (1964) is a standard USE disk, stamped "JLR 518 1964", set flush in a concrete post, 176 feet southeast of the centerline of a sand road leading to the beach, 145 feet northeast of the centerline of a paved road, 2 feet west of a witness post and 15 feet above the road level. Elevation: 18.88 feet above mean water level.

(OVER)

Eddy Creek (Mosquito Lagoon) Cont'd

BENCH MARK J 207 (1963) is a standard disk, stamped "J 207 1963", set in the top of a concrete post projecting 2 inches above ground level. The mark is located 12.3 miles east along State Highway 401 and 402 from the Junctions of U. S. Highway 1 at Titusville, then 2.5 miles northwest along a narrow asphalt road. The mark is 400 feet northwest of the junction of the asphalt road and sand road and 1 foot south of a wooden witness post, 31 feet northeast of the centerline of the sand road, 29 feet southeast of the centerline of the sand trail leading northeast to the beach. Elevation: 7.31 feet above mean water level.

Mean water level at Eddy Creek is based on twelve months of record, September 1970 - June 1971, September 1971 - November 1971, reduced to mean values.

FLORIDA – NOAA Coastal Boundary Mapping Program

Vertical Control – Geodetic Map TP – 00107

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
297 (USE)	6.778	USE disk stamped 297 JLR 1962; 52 ft. NE centerline road, 55 ft. SE trail to beach, in concrete post 2 inches below ground.
520 (USE)	6.427	USE disk stamped 520 JLR 1964; 92 ft. NE centerline road, 5 ft. NW trail to beach, 1 ft. W witness post.
IPPER	6.640	C&GS disk stamped IPPER 1962; 62 ft. NE centerline road, a Bilby tower is over mark.
522 (USE)	7.313	USE disk stamped 522 JLR 1964; 67 ft. NE centerline road, 33 ft. SE trail to beach, in concrete post projecting 2 inches.
TIPPER	20.886	C&GS disk stamped TIPPER 1965; 28 ft. NE of SW edge of camera pad, 18 ft. SE of NW edge, in drill hole in concrete pad.
G 207	8.727	C&GS disk stamped G 207 1963; 53 ft. NE centerline road, 9.5 ft. SE dim trail to beach, in concrete post projecting 3 inches.
H 207	9.140	C&GS disk stamped H 207 1963; 40 ft. NE centerline road, 11 ft. S trail to beach, in concrete post projecting 2 inches.
TRIM	4.593	C&GS disk stamped TRIM 1949; 16 ft. SW centerline road, 2 ft. N witness post, in concrete post projecting 2 inches.
E 207	9.895	C&GS disk stamped E 207 1963; 55 ft. E centerline road, 150 ft. NE mark 319 (USE), in concrete post projecting 3 inches.

Geodetic Bench Mark	Elevations (feet) SLD 1929	Condensed Description
KLONDIKE	5.499	C&GS disk stamped KLONDIKE 1934; 140 ft. SW sand road, a Bilby tower is over mark.
V 208	7.625	C&GS disk stamped V 208 1963; 14 ft. NE centerline sand road, 22 ft. SW sand trail, 3 ft. SE witness post with Refuge sign.
W 208	5.909	C&GS disk stamped W 208 1963; 22 ft. SW centerline sand road, 2 ft. NE witness post, in concrete post projecting 3 inches.
518 (USE)	19.180	(*)
TBM 3	4.573	(*)
EDDY CREEK TIDAL 1	2.674	(*)
EDDY CREEK TIDAL 2	4.373	(*)
EDDY CREEK TIDAL 4	9.170	(*)
J 207	7.618	(*)

* Descriptions given under Tidal Bench Marks.

FLORIDA– NOAA Coastal Boundary Mapping Program

Horizontal Control Map TP– 00107

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
KLONDIKE, 1934	Book 418, pp. 23, 29, G.P.-Fla. Vol. I, p. 148, P.C. Fla. E. zone, p. 17.
TIPPER, 1965	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
IPPER, 1962	"

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [x] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP. 00107
MAP EDITION NO. (1)
MAP CLASS Final
JOB PH. 6716

PHOTOGRAMMETRIC OFFICE
Rockville, Maryland

OFFICER-IN-CHARGE
Commander Wesley V. Hull

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
General Instructions-OFFICE-NOS Cooperative Coastal Boundary Mapping, Job PH-7000, June 19, 1973 OFFICE-Supplement I, August 19,1973 Note: Office and Field Edit instructions (1973) incorporate applicable prior operational instructions.	Aerial Photography 9/2/69 Supplement I, 1/28/70 Supplement II, 3/26/70 Supplement III, 8/10/72 Field Edit (PH-7000, General Instructions for Florida Coastal Zone Mapping) 1973

II. DATUMS

1. HORIZONTAL: [x] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL:
- [x] MEAN HIGH-WATER
- [x] MEAN LOW-WATER
- [ ] MEAN LOWER LOW-WATER
- [ ] MEAN SEA LEVEL

OTHER (Specify): Mean water level (See Record of Decisions)

3. MAP PROJECTION: transverse mercator

4. GRID(S): STATE: Florida; ZONE: East

5. SCALE: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	J.D. Perrow	9/69
METHOD: Analytic	LANDMARKS AND AIDS BY	Inapplicable	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	P.J. Dempsey	2/70
METHOD: Coradomat	CHECKED BY	Inapplicable	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J.C. Richter	3/70
	CHECKED BY	J.P. Battley	3/70
INSTRUMENT: Wild B-8	CONTOURS BY	Inapplicable	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J.C. Richter	3/70
Shoreline: Graphic	CHECKED BY	J.P. Battley	3/70
METHOD:	CONTOURS BY	Inapplicable	
Interior: Orthophoto mosaic	CHECKED BY		
SCALE:	~~PHOTOGRAMMETRIC~~ BY	J. Taylor	3/70
	CHECKED BY	J.P. Battley	3/70
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P.Battley	4/70
6. APPLICATION OF FIELD EDIT DATA	BY	M.C. Webber	9/70
	CHECKED BY	J.P. Battley	9/70
7. COMPILATION SECTION REVIEW	BY	J.C. Richter	10/70
8. FINAL REVIEW	BY	J.P. Battley	11/70
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	D.M. Brant *	
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.J. Leeton	5/74

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

*See review report

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B (3-72)

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

TP-00107

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8
S&L 6"focal length

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☐ REFERENCE STATION RECORDS
- ☒ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED B&W

TIME REFERENCE
ZONE: Eastern ☐ STANDARD
MERIDIAN: 60th ☒ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
69S(C)5839-5843	10/3/67	10:55	1:40,000	The stage of tide is inapplicable for the color photography.
69L3744R-3745R	8/27/69	8:55	1:30,000	*+0.36MHW**+0.22MWL ***+0.14MWL
69L3761R-3765R	8/27/69	9:07	1:30,000	*+0.31MHW
69L3565R-3568R	8/26/69	12:05	1:30,000	*+0.40MLW**+0.11MWL ***+0.06MWL

REMARKS *Port Canaveral Tide Station;**Orsino Tide Station and***Titusville Tide Station were used to insure that the water level was not significantly above or below the MWL Datum in Mosquito Lagoon.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water line shown along the Atlantic Ocean is the 1969 black and white infrared (MHW) photography listed under Item 1.

The mean water-level line was mapped in lieu of the mean high-water line along the Mosquito Lagoon (refer to the Record of Decisions bound with this report). The source of the mean water-level line is the 1969 black and white infrared photography listed under item 1.

The shoreline was field edited in July 1970.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the mean low-water line, mapped only along the Atlantic Coast, is the 1969 infrared (MLW)photography listed under item 1. There is no mean low-water line shown along the Mosquito Lagoon.

The shoreline was field edited in July 1970.

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

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
	Inapplicable				

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00104	TP-00106	TP-00110	Atlantic Ocean

REMARKS
Final Junctions were made in the Coastal Mapping Section.

* U.S. G.P.O. 1972-769381/568 REG.#6

NOAA FORM 76-36C
(3-72)

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

TP-00107

HISTORY OF FIELD OPERATIONS

I. [x] FIELD INSPECTION OPERATION *see below [x] FIELD EDIT OPERATION July 1970

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W.H. Shearouse	7/70
2. HORIZONTAL CONTROL	RECOVERED BY	W.H. Shearouse	7/70
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	W.H. Shearouse	7/70
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	W.H. Shearouse	7/70
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY	W.H. Shearouse	7/70
	LOCATED (*Field Methods*) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [x] SPECIFIC NAMES ONLY [ ] NO INVESTIGATION — BY	W.H. Shearouse	7/70
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Shearouse	7/70
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME
	See item 8 below

PHOTO NUMBER	STATION DESIGNATION
69L3565R	@TRIM, 1949, E207,H207, V208,W208
69L3567R	301'(USE)
69L3568R	297'(USE),518(USE), 520'(USE)
69L3763R	522'(USE) G207' IPPER,1962,TIPPER 1965 and

3. PHOTO NUMBERS (*Clarification of details*)

69L3565R, 3567R,3568R,3763R,3765R

Klondike 1934, are also bench marks.
69L3765R Tidal BM3 1970'

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

No aids to navigation

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
69L3568R not pricked	POLE,1970 @ TOWER(a Bilby tower over IPPER 1962		

5. GEOGRAPHIC NAMES: [ ] REPORT [x] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [x] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*)

*Refer to page 9 of this report for data concerning field inspection.

* U.S. G.P.O. 1972-769381/567 REG.#6

NOAA FORM 76-36D
(3-72)

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
No map copies furnished to Nautical Charts prior to final review.				

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
	1303	Oct. 1, 1973	Only one report was submitted

2. ☑ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: October 1, 1973
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☑ BRIDGING PHOTOGRAPHS; ☑ DUPLICATE BRIDGING REPORT; ☑ COMPUTER READOUTS.
2. ☑ CONTROL STATION IDENTIFICATION CARDS; ☑ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☑ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☑ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 5/16/74 K.J.B.

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

NOAA FORM 76-36D

* U.S. G.P.O. 1972-769380/548 REG.#6

Record of Decisions
Pertaining to Symbolization of the MHW, MLW and MWL Datums
TP-00107

Shoreline Delineation

The mean low-water and mean high-water tidal datums were determined along the outer coast (Atlantic Ocean) from tide observations at Daytona Beach and Port Canaveral. Mosquito Lagoon is the major interior waterway; that datum was established by observations at the Eddy Creek Tide Station (shown on this map).

In this reach of Mosquito Lagoon, the periodic tide was masked by nontidal forces and the mean range was substantially less than two-tenths of a foot (on the order of 0.08 foot). In this situation, the mean high/low-water datums converge and, for mapping purposes, the mean high- and mean low-water lines are indistinguishable. As a consequence, special treatment was given to the portrayal of the shoreline on this map; the mean water-level line was mapped in lieu of the mean high-water line and shown by a distinctive symbol, except in areas where there are manmade features such as bulkheads which were portrayed by a solid line, or where vegetation such as mangrove obscures the shoreline and then the apparent shoreline symbol was used.

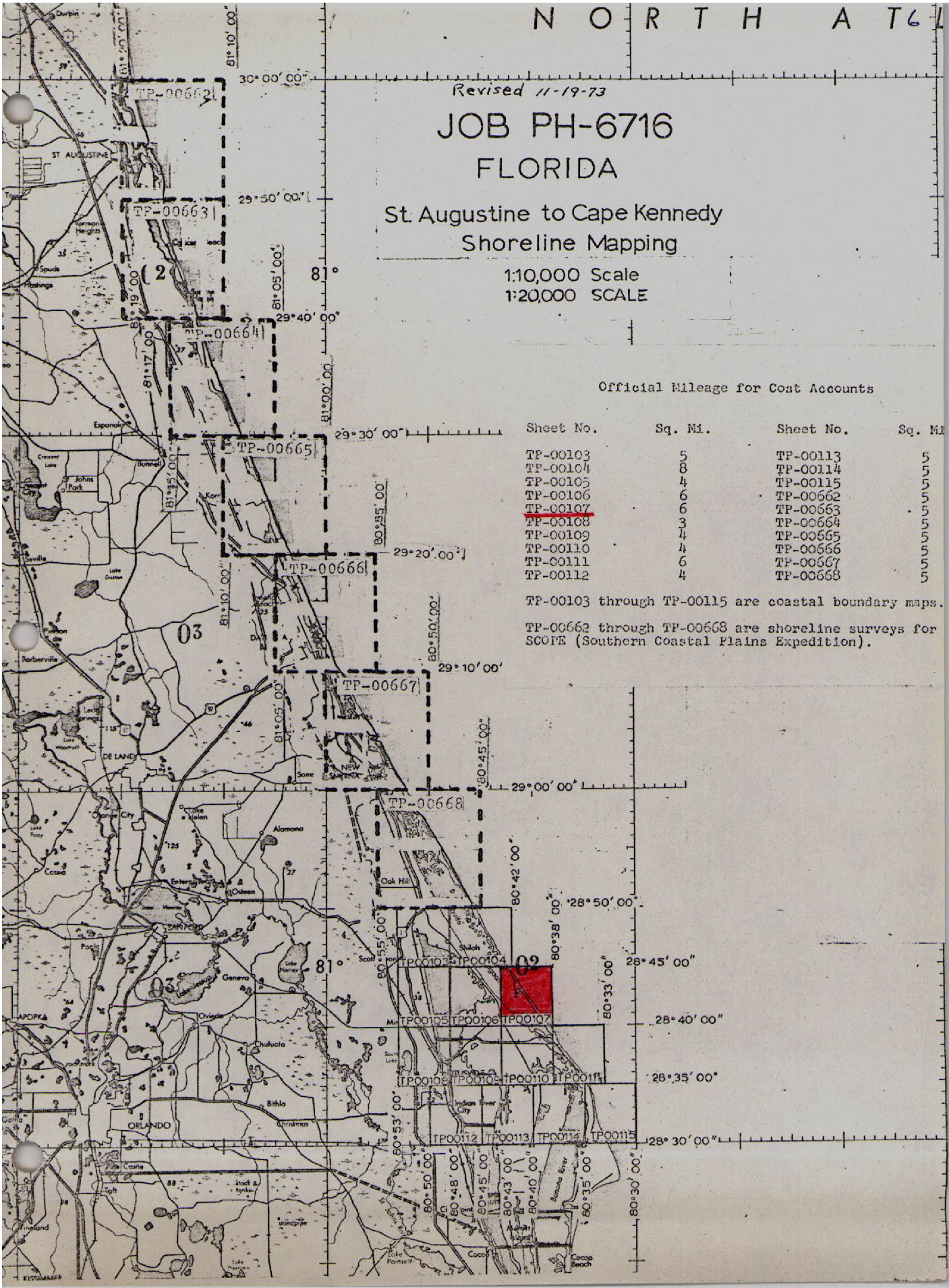
*Decision Responsibility for Shoreline Symbolization

Specific decisions as to where the symbolization for mapping the mean water-level line, apparent shoreline, and solid lines for the along-shore manmade features were made November 1972 in Rockville, Maryland, by competent technical and legal officials of NOS and NOAA. NOS was officially represented by Cdr. Wesley V. Hull, Chief, Coastal Mapping Division, and Mr. Carroll I. Thurlow, Chief, Tidal Datum Planes Section of the Oceanographic Division. The official NOAA representative was Mr. Hugh J. Dolan, Staff Attorney, Office of General Counsel. They based their decisions on an examination and evaluation of tide station records, aerial photographs, and field edit records and reports.

Archiving

A copy of this report shall be included in Descriptive Report TP-00107 which will be permanently filed in the Bureau archives.

* See Review Report for Clarification of date.



Official Mileage for Cost Accounts

Sheet No.	Sq. Mi.	Sheet No.	Sq. Mi.
TP-00103	5	TP-00113	5
TP-00104	8	TP-00114	5
TP-00105	4	TP-00115	5
TP-00106	6	TP-00662	5
TP-00107	6	TP-00663	5
TP-00108	3	TP-00664	5
TP-00109	4	TP-00665	5
TP-00110	4	TP-00666	5
TP-00111	6	TP-00667	5
TP-00112	4	TP-00668	5

TP-00103 through TP-00115 are coastal boundary maps.

TP-00662 through TP-00668 are shoreline surveys for SCOPE (Southern Coastal Plains Expedition).

SUMMARY
TP-00103 thru TP-00115

Coastal Zone Map TP-00107 is one of thirteen (13) similar maps in project PH-6716. The layout of sheets (page 6 of this report) will show its location. These maps are intented for planning purposes by the State of Florida and for the compilation of NOS Nautical Charts.

The area is covered by aerial photography taken in 1967 and 1969 on regular color and black and white infrared film. The black and white infrared film was tide coordinated.

Field operations consisted of the establishment of tidal datums. control recovery, pre-marking of control, and field edit. Data for the compilation of tide stations and tidal bench marks were furnished by the Tidal Datum Planes Section. Condensed descriptions of both tidal and geodetic bench marks shown on this map were furnished by the Coastal Surveys Section.

Horizontal control was extended by analytical aerotriangulation methods using the stereo comparator. This provided control for the orthophoto mosaic and compilation.

Shoreline and alongshore features were compiled from the tide-coordinated black and white infrared photography using a stereoplotter and graphic methods. The interior of the maps are depicted by an orthophoto mosaic.

All line work is scribed, approved symbols are shown in the marginal data.

Explanatory notes relating to datum determinations approved by a special ad hoc committee are shown on the reverse side of the maps.

All maps are published by the NOS and were printed in three colors by the Reproduction Division. A special registration copy was prepared to meet the requirements for Nautical Charts. This registration copy shows additional offshore details not shown on the published map and will be noted "Registration Copy" under the title block.

The following items will be registered in the Bureau Archives:

1. A plastic copy of the published map (1:10,000 scale).
2. A stable base positive of the registration copy (1:10,000 scale).
3. The Descriptive Report.

All negatives will be filed with the Reproduction Division.

All field data such as Forms 152, field edit photographs, profiles, field edit ozalids, etc., are filed in the Federal Records Center.

Field Inspection

Field operations performed prior to compilation were limited to recovery of horizontal control required for compilation, placing targets on selected horizontal control stations in advance of aerial photography, and photoidentification of supplemental control stations after photography. A Field Inspection Report was not considered appropriate and was not prepared.

Photogrammetric Plot Report
Cape Kennedy, Florida
Job PH-6716
October, 1970

21. Area Covered

This report covers the area immediately north of Cape Kennedy, Florida, from Latitude 28° 30' to 28° 50'. The job consists of thirteen (13) 1:10,000 scale sheets, TP-00103 thru TP-00115.

22. Method

Five (5) strips of photographs were bridged using analytical aerotriangulation methods. Strips 1 thru 4A were bridged using 1:40,000 scale color photography. Strip 50 was bridged using 1:25,000 scale panchromatic photography. Compilation was done concurrently with the bridging. No difficulty was encountered in the bridging or compiling strip 1. However, because of weak control, ties between strips 2, 3 and 4A were poor and subsequently these three strips were adjusted as a block. However, we still felt that the block was not as adequate as we would like. Therefore, a 1:25,000 scale strip flown at a later date was taken advantage of and bridged, using additional control. With this additional strip, the aerotriangulation proved adequate.

23. Adequacy of Control

Some of the horizontal control was premarked. All the control used in bridging strip 50 was office identified prior to the field work. That is, sub points were picked in the office, identified on the contact prints to be located by ground methods by the field party. This was done in order to save time by not holding up the aerotriangulation. The results proved very satisfactory. The horizontal control was adequate for bridging.

24. Photography

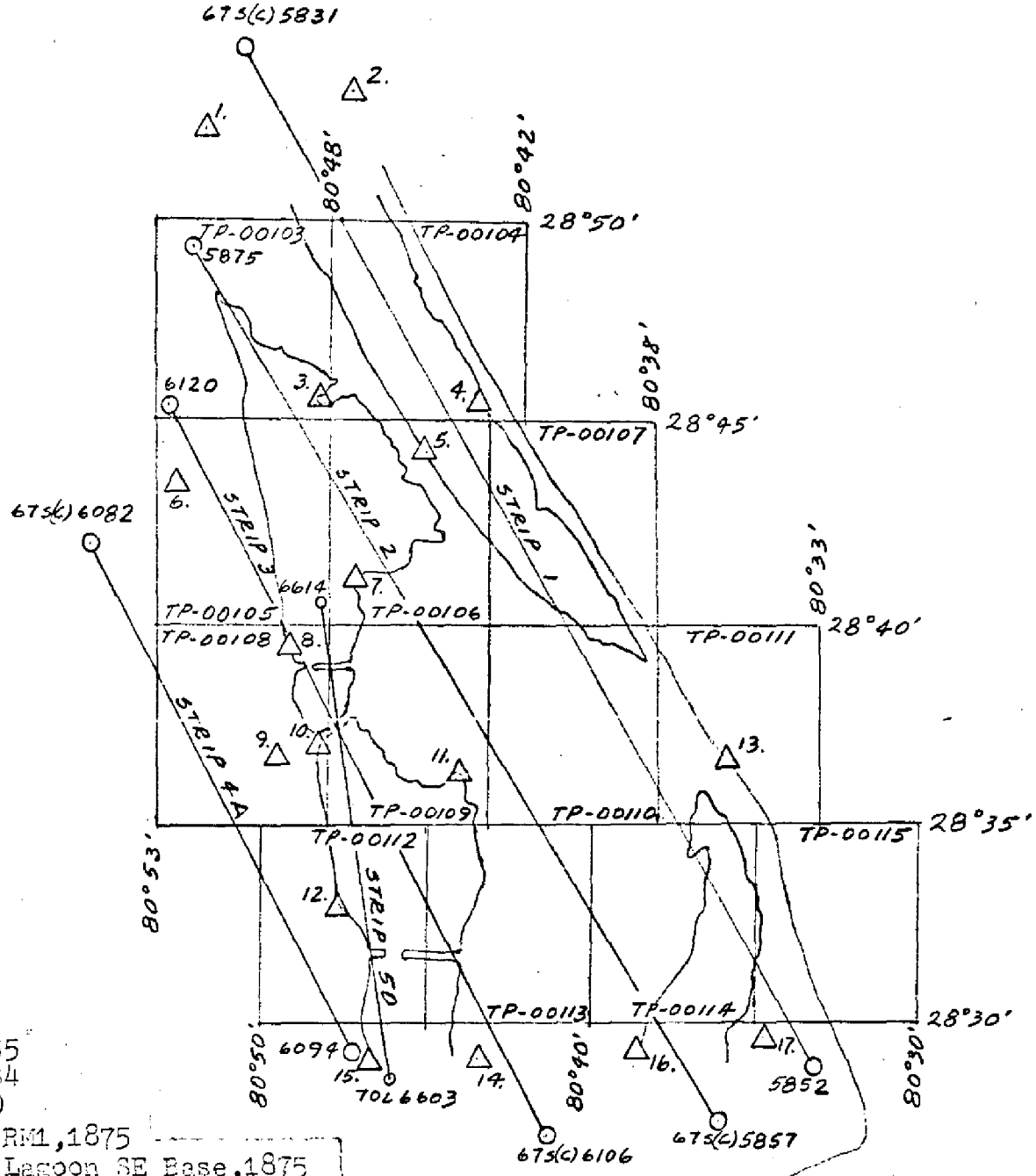
The definition and quality of the photography from the RC-8 "5" and "L" cameras were good.

Respectfully submitted:

I. I. Sapeystein

Approved and forwarded:

Henry P. Eichert, Chief
Aerotriangulation Section



1. Oak 2,1955
2. Mount,1934
3. Bush,1940
4. Scorpion RM1,1875
5. Mosquito Lagoon SE Base,1875
6. Titusville NW Base,1934
7. Whanot,1963
8. N3(USE)1940
9. Titusville New Munic. WT,1960
10. Titusville Water Tank,1934
11. Stayout,1963
12. Indian River City Microwave Mast,1960
13. Chester 3,1964
14. Courtenay,1953
15. Frontenac Fla. Power & Light Co. Smokestack,1964
16. Paxton,1960
17. Central,1950

AEROTRIANGULATION SKETCH
CAPE KENNEDY, FLORIDA
JOB PH-6716
October, 1970

△ Horizontal Control
○ 1:40,000 scale color photos
o 1:25,000 scale pan. photos

FLORIDA – NOAA Coastal Boundary Mapping Program

Horizontal Control Map TP – 00107

Station	NOS Geodetic Data Reference for Description, Positions, Coordinates and Azimuths
KLONDIKE, 1934	Book 418, pp. 23, 29, G.P.-Fla. Vol. I, p. 148, P.C. Fla. E. zone, p. 17.
TIPPER, 1965	Distribution of data is restricted. Write the Director, National Geodetic Survey, for information.
IPPER, 1962	"

COMPILATION REPORT
TP-00107

31. Delineation

The interior features on TP-00107 are depicted by an orthophoto mosaic using rectified black and white prints of the color photography. Control for rectifying the color photography was furnished by the analytic bridge.

The shoreline on this map was compiled graphically from tide-coordinated black and white infrared photography. The color photography was used as an aid in interpreting culture and alongshore features.

The control for the graphic compilation consisted of planimetric features and map points compiled from models of the color photography set on the Wild B-8 stereoplotter.

32. Horizontal Control

Refer to the photogrammetric plot report bound with this Descriptive Report.

33. Supplemental Data

Vertical control from USGS quadrangles was used for leveling the B-8 stereo models.

34. Contours and Drainage

Contours are inapplicable. Drainage is depicted by the orthophoto mosaic.

35. Shoreline and Alongshore Details

The photography was adequate for the interpretation and delineation of the shoreline and alongshore features.

The mean high-water line and mean low-water line was mapped along the Atlantic coast. The mean water-level line and apparent shoreline was mapped along the coast of the Mosquito Lagoon (refer to the Record of Decisions bound with this report).

36. Offshore Details

Offshore spoil areas and shallow lines were delineated from office interpretation of the photography.

37. Landmarks and Aids to Navigation

There are no nonfloating aids to navigation on this map.

Two landmarks are recommended for charts and reported on Form 76-40.

2

38. Control for Future Surveys

Tidal bench marks located by the tide observation party.

39. Junctions

Refer to form 76-36b (page 2 of this Descriptive Report).

40. Horizontal Accuracy

The map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by project instructions, PH-7000.

41. thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle Wilson, Fla., edition of 1952, scale 1:24,000, contours 5 ft. intervals.

47. Comparison with Nautical Charts

Comparison was made with Nautical Charts 843-SC, side B, seventh edition, September 1969.

Items to be Applied to Nautical Charts Immediately: None.

Items to be Carried Forward: None.

Submitted by:
John C. Richter (JB)
John C. Richter
Cartographer (Photo)

Approved and forwarded:
K. N. Maki (JB)
K.N. Maki
Chief, Compilation Section

Field Edit Report, Map TP-00107, Job PH-6716

51. METHODS

Visual comparison of the delineated shoreline was made by running near shore in a small boat. It is suggested that the photo transparencies be studied for possible revision of the limits of the shallow flats, as indicated by notes on the Field Edit Sheet.

Vegetation classification was not field edited in detail due to the plan to publish a photo-mosaic type map.

There are no nonfloating aids.

Two landmarks are recommended. Form 567 is submitted.

Thirty-four geodetic bench marks were searched for, twenty-two recovered and 11 identified. In addition, three triangulation stations were recovered. All three also are bench marks. Recovery notes are being submitted. An ozalid print of the compilation manuscript showing the approximate locations of the bench marks is submitted.

A tide gage was established in Eddy Creek and its location marked on photo 69L3765R along with Tidal BM 3, 1970.

Field edit notes will be found on the Field Edit Sheet with cross-referencing to the ratio photographs where appropriate.

Violet ink was used for field edit notes.

52. ADEQUACY OF COMPILATION

After application of field edit information, compilation will be adequate.

53. MAP ACCURACY

No tests were specified.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAMES

A complete investigation was not required and no conflicts came to light during field work.

Submitted 8/6/70

William H. Shearouse

William H. Shearouse
Chief, Photo Party 60

Review Report TP-00107
Coastal Zone Map
September 1973

A detailed review of TP-00107 and its related records was made in the Coastal Mapping Section prior to its publication. The following major parts in the preparation of this map have been examined by the Quality Control Group and are adequate:

1. Field operations
2. Extension of control
3. Compilation

Comparison was made with the following USGS Quadrangle and Nautical Chart:

Wilson, Florida, 1949, photorevised, 1970
Nautical Chart 843-SC, 10th Edition, August 12, 1972

The Wilson quadrangle and Nautical Chart 843-SC show piling or a pier in ruins along the west coast of Mosquito Lagoon (latitude 28°41.5' and longitude 42°30.0'). No reference was made of this culture feature by the field editor.

The color photography dated October 1967 was used for bridging and the photomosaic. This photography was supplemented by ~~additional~~ photography dated August 1970. (Refer to photogrammetric plot report.) The black and white infrared photography taken in August 1969 was used for the compilation of the shoreline. The note on the published map does not mention the August 1969 photography.

The shoreline on this map was symbolized in accordance with ongoing decisions set forth by officials of the National Ocean Survey. These decisions, however, were formalized and documented at the later date reflected in the Record of Decisions.

This map complies with project instructions for NOS Cooperative Coastal Boundary Mapping, Job PH-7000. This map meets the National Map Accuracy Standards.

Submitted by,

Donald M. Brant

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

TP-00107

48. Geographic Name List

Atlantic Ocean
Bull Camp
Clark Slough
Cucumber Island
Cucumber Slough
Eddy Creek
Eddy Point
Gallinipper Basin
Gallinipper Point
Klondike Beach
Max Hoeck Creek
Middle Banks
Mosquito Lagoon
Pelican Island
Turtlepen Point

PREPARED BY
Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY
A. W. Wright
CHIEF GEOGRAPHER
by F.W.P.

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

U.S. DEPARTMENT OF COMMERCE–NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ FIELD INSPECTION
- ☐ FIELD EDIT
- ☐ COMPILATION
- ☐ FINAL REVIEW
- ☒ QUALITY CONTROL AND REVIEW

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE DELETED

ORIGINATING LOCATION: Rockville, Maryland

DATE: 9/73

The following objects have (have not) been inspected from seaward to determine their value as landmarks:

JOB NUMBER: PH-6716
STATE: Florida
SURVEY NUMBER: T-TP-00107
DATUM: NA 1927

CHARTING NAME	DESCRIPTION	POSITION LATITUDE ° ′	POSITION LATITUDE ″ D.M.METERS	POSITION LONGITUDE ° ′	POSITION LONGITUDE ″ D.P.METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form) FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED
TOWER	Bilby steel tower(IPPER 1962) ht=86(91)	28 41	26.312 810.0	80 39	32.349 878.2			Triang. Rec. 7/23/70	843-SC 1245
POLE	Pole at camera site ht=65(80)	28 42	9.88 304.0	80 40	7.67 212.0			* 7/23/70	843-SC 1245
						* Located by angle and distance			

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RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward		☐ FIELD INSPECTOR ☐ FIELD EDITOR
2. Positions determined and/or verified		FIELD INSPECTOR
	W.H. Shearouse	FIELD EDITOR
	J.C. Richter	COMPILER
3. Forms originated by Quality Control and Review Group and final review activities	* See below	☐ REVIEWER ☒ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods.
'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

COMPILATION

FIELD INSPECTION
AND
FIELD EDIT

NOTE: Positions listed and typed on 76-40 Form. Copy checked after typing in Quality Control.

TYPE OF ENTRIES

Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.

1. New Position Determined–Enter the applicable data by symbols as indicated below:

F – Field
1. Triangulation
2. Traverse
3. Intersection
4. Resection
   a. Theodolite
   b. Planetable
   c. Sextant

P – Photogrammetric
1. Field identified
2. Theodolite
3. Planetable
4. Sextant

EXAMPLES:

F.3.c

P.2

Immediately beneath the data described above, enter the following:

a. For 'Field Positions' enter the date of location.

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

2. Triangulation Station Recovered – Enter 'Triang. Rec. mo/day/yr.'

3. Position Verified – Enter 'Verif. mo/day/yr.'

TP-00107
Data Forwarded to Federal Records Center

1 Field edit sheet dated July/August 1970, by W.H. Shearouse (Stable base material)

1 Discrepancy Print

1 Ozalid copy showing the location of bench marks

Photographs:

69L3565R, 3567R, 3568R
69L3763R, 3765R

1 Form 567