

6823a&b
6824a&b

ORIGINAL

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. E, F, G, & H.

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUN 11 1941

Acc. No.

State Florida

LOCALITY

Indian River and Vicinity

Titusville

~~-103-~~ 1941

CHIEF OF PARTY

F. L. Gallen

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6823b
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DESCRIPTIVE REPORT

To Accompany Topographic Sheets Nos. E, F, G, & H.

Indian River, Florida

INSTRUCTIONS

The work on these sheets was performed in accordance with instructions dated October 16, 1939, for project HT-243. ✓

LIMITS

7-68232 7-68236 7-68240 7-68246
Sheets E, F, G, and H cover both shores and the water area of the Indian River from triangulation stations N.S., U.S.E. 1940, on the west side and Nels, 1940 on the east side, southward to Lat. 28° 30'. The work on sheet E. was a revision survey of previous air photo surveys in 1928. In several instances on this sheet, as will be noted from the breaks in the blue shoreline, the previous shoreline, in black, was considered sufficiently accurate so as not to warrant revision. The work on sheets F and G and H cover an area of the river which was not included in the 1928 air photo survey of this region.

Blue shoreline of present survey was changed to black in this office and black shoreline of previous survey was deleted

GENERAL DESCRIPTION

The character of the shore on the east side of the river throughout the extend of these sheets is largely a low marshy type with numerous small, shallow, enclosed ponds. On the west side of the river the shore rises abruptly from a shore beach to land of sufficient elevation that drainage and cultivation are possible. ✓

LANDMARKS

Form 567, "Landmarks for Charts" has been filled out and is submitted as a separate report. The landmarks submitted are the only ones of sufficient prominence to aid navigation on the intracoastal waterway.

Chart Letter 342 (1941)

CONTROL

The control for these sheets was obtained from second order triangulation of the 1940 season. ✓

SURVEY METHODS

Hydrographic signals were located by three or more cuts with planetable from the existing control stations, with the exception of a traverse run in Moore Creek on sheets G and H. This traverse was not adjusted. Using triangulation stations and located hydrographic signals the shoreline was rodded in. ✓

COMPARISON WITH PREVIOUS SURVEY

From shoreline revision on sheet E it was found that air photo

work of 1928 was in fair agreement on the west side of the river, but on the east side there were differences which necessitated revision. The locations of Titusville bridge and docks were changed and from the construction of a boat basin and a channel to it in Titusville, considerable changes will also be noted. The bank of sand below Titusville bridge is location of new bridge.

DEPARTURE FROM GENERAL PRACTICE

The shoreline on sheet G from Nana, 1940 south to a point 1150 meters below Mid, 1940, was run on the main projection of the sheet. It was transposed with the existing signals for control of Moores Creek, on the insert.

GEOGRAPHIC NAMES

See special report on geographic names, which covers all work of this season.

MAGNETICS

Magnetic observations were observed on each sheet in accordance with specifications.

STATISTICS

Sheet E	-	Statute Miles of shoreline	-	20.3
"	F	-	"	4.7
"	G	-	"	39.4
"	H	-	"	16.0
				<u>80.4</u>

Submitted by,

Glenn C. Wright
Glenn C. Wright
Deck Officer

Approved,

I. E. Rittenburg
I. E. Rittenburg
H. & G. Engineer
Chief of Party

PLANETABLE POSITIONS

Object & Description	Lat.	D.M.	Long.	D.P.	Ht.	Remarks
Wag, S.E.Cor.Bldg.dock	28	36	1372	80 48	431	
Zev, S.E. Cor.E.boat Ho.	28	36	962	80 48	524	End of pier
● Cat, Cent.Pyr.Rf.Bldg.	28	36	124	80 48	375	End of pier
Oaf, Ctr.off.face Wh.Bldg.	28	33	938	80 47	1430	End of pier
Pat, Apex Pyr.Rf.tower	28	33	814	80 47	1501	Clark's ser.Sta.
Que, S.E.Cor.wh.bldg.	28	33	802	80 47	1436	Clark's ser.Sta.
Sip, E.Gab.met.bldg.	28	33	147	80 47	1194	
{ ^{BUST} Ind.River N.Lt.#107	28	32	1265	80 46	300	

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

6823a&b
REGISTRY NOS. 6824a&b
Field Nos. E, F, G & H

Florida, Indian River, Titusville to Moore Creek
Surveyed February - March 1941; Scale 1:10,000
Instructions dated October 16, 1939

Plane Table Survey

Aluminum Mounted

Chief of Party - F. L. Gallen
Surveyed by - G. C. Wright
Inked by - G. C. Wright
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, January 11, 1943

1. Adjoining Surveys

T-6823 (1941) joins T-6822 (1941) on the north and
T-6824 (1941) on the south. T-6824 joins T-6825
(1941) on the south.

2. Comparison with Prior Surveys

a. T-1422 (1875-76) 1:20,000
T-1435 (1876) 1:20,000

The present survey is in good agreement with these prior surveys with respect to the shoreline. There are some differences of 30-40 meters along the marshy east side of the river which are probably due to the scanty control and the sketching on the earlier surveys. The present survey is considered adequate to supersede these earlier surveys within the common area.

b. T-4531 (1928) 1:20,000

The agreement with the shoreline of this air photographic survey is good. Differences of 20-40 meters along portions of the east shore of the river are probably due to the control adjustment on T-4531. There have been a few changes in the docks and shoreline at Titusville since the prior survey was made. The present survey is adequate to supersede the earlier survey with respect to shoreline features. Cultural features from T-4531 should be retained.

3. Comparison with Chart 844 (latest print date 5-20-42)
1245 (" " " 7-23-42)

a. Topography

The charted topography originates with the present survey and is correctly charted on chart 1245. Some of the docks in the vicinity of Titusville on chart 844 have not been charted, and certain docks not now in existence have been retained from older surveys. The shoreline in Lat. 28°30.5'; Long. 80°43.8' is not charted in agreement with the present survey. These areas should be corrected on chart 844.

b. Magnetic Meridians

The survey values of the magnetic meridians are in accord with the charted values.

c. Aids to Navigation

The survey positions of the aids to navigation are in agreement with their charted positions and notations.

4. Condition of Survey

Satisfactory.

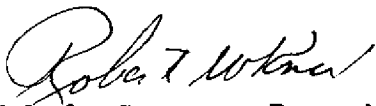
5. Compliance with Instructions for the Project

Satisfactory.


6. Superseded Surveys


T-1422 (1875-76) in part
T-1435 (1876) " "
T-4531 (1928) " "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. E & F

REGISTER NO. **T6823** a & b

State Florida

General locality Indian River

Locality Titusville and vicinity

Scale 1:10,000 Date of survey Feb. March, 1941

Vessel Launches MITCHELL & OGDEN

Chief of party F. L. Gallen

Surveyed by G. C. Wright

Inked by G. C. Wright

Heights in feet above _____ to ground to tops of trees

~~Contour~~, Approximate contour, Form line interval _____ feet

Instructions dated _____ Oct. 16, 1939

Remarks: One aluminum mounted sheet, both sides used

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. G & H

REGISTER NO. **T6824** a & b

State Florida

General locality Indian River

Locality ~~Timucville~~ Moore Creek and vicinity

Scale 1:10,000 Date of survey Feb. & March, 19 41

Vessel Launches MITCHELL & OGDEN

Chief of party F. L. Gallen

Surveyed by G. C. Wright

Inked by G. C. Wright

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____ Oct. 16, 1941

Remarks: One aluminum mounted sheet, both sides used

Remarks.

Decisions

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2		286807
3		271801
4		286808
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GEOGRAPHIC NAMES
Survey No. **T6823a**

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Catfish Creek</u>										1
<u>Gator Creek</u>										2
<u>Indian River</u>										3
<u>Titusville</u>										4
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1. Heck 12/12/41

Remarks.

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GEOGRAPHIC NAMES

Survey No. **T6823 b**

GEOGRAPHIC NAMES										
Survey No. T6823 b										
Name on Survey										
	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
Addison Point										1
Indian R _i ver										2
Indian River city										3
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Names underlined in red approved
by L. HECH on 12/13/41

M 234

Names underlined in red approved
by L. HECK on 12/13/41

Remarks

Decisions

1		285807
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GEOGRAPHIC NAMES

Survey No. **T68242**

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Banana Creek</u>										1
<u>Indian River</u>										2
<u>Merritt Island</u>										3
<u>Moore Creek</u>										4
<u>Peacocks Pocket</u>										5
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Remarks

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GEOGRAPHIC NAMES
Survey No. **T6824 b**

Name on Survey	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.	
<u>Addison Point</u>										1
<u>Indian River</u>										2
<u>Merritt Island</u>										3
<u>Pine Island</u>										4
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with
E. L. Heck 12/13/41

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT

~~PHOTOGRAPHIC~~

~~No. 11~~

No. T 6823 a & b

received June 11, 1941
registered July 1, 1941
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	T. B. Reed
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✓ JBR

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTO STAT OF~~

~~Moore~~

No. T 6824 a & b

received June 11, 1941
registered July 1, 1941
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	T. B. Reed
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✓ JBSOC