

5864

Diag'd. on diag. ch. No. 1255

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. Office No. T-5864

LOCALITY

State Florida
General locality Florida West Coast -
Pine Island Sound

Locality Pine Island, Central Part

Date of Photos: 12-14-39; 11-10 &
12-42. Supplemented by ground surveys
to April 1943. 194

CHIEF OF PARTY

Lt. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE

Aug 8 - 1947

B-1870-1 (1)

5864

Applied in part (upper portion) to chart cor. 474 May 1945

DATA RECORD

T- 5864

Quadrangle (II):

Project No. (II):

H.T. 242 G

Field Office: Tampa, Fla.

Chief of Party: K. G. Crosby

Compilation Office:

Chief of Party: K. G. Crosby

Tampa, Florida

Instructions dated (II III):

Copy filed in Descriptive
Report No. T- (VI)

April 3, 1940

Completed survey received in office: ✓

1/44

Reported to Nautical Chart Section: ✓

1/45

Reviewed: ✓ 10/45

Applied to chart No.

Date:

Redrafting Completed: ✓ 3/47

Registered: 7/47

Published: ✓ 5/47

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): Pineland, 1934

Lat.:

Long.:

Adjusted

26° 35' 55.332" (1702.90m) 82° 06' 49.105" (1358.64m) ~~Unadjusted~~

State Plane Coordinates (VI):

X = 462,860.36

Y = 823,282.52

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11607	11/12/42	11:30	1:10,000	-.35
11608	"	11:30	"	-.35
11609	"	11:31	"	-.35
11542	11/10/42	10:53	"	.2
11541	"	10:52	"	.2
11540	"	10:51	"	.2
11539	"	10:51	"	.2
11538	"	10:46	"	.17
4325	12/14/39	1:40	"	.4

Tide from (III): South Boca Grande, Charlotte Harbor

Mean Range: 0.7 ft. Spring Range: 0.9 ft.

Camera: (Kind or source) U. S. C. & G. S. 9-lens

Field Inspection by: H.A.Duffy, Prin. Photo Aid date: Apr. 1943
L.C.Bonham, Jr. Photo Engr.

Field Edit by: date:

Date of Mean High-Water Line Location (III): Date of Photographs

Projection and Grids ruled by (III) Washington Off. date: May 21, 1943

" " " checked by: " " date: May 21, 1943

Control plotted by: R. Dossett, Prin. Photo Aid date: July 14, 1943

Control checked by: O.M.Rivera, Sr. Photo Aid date: July 14, 1943

Radial Plot by: Tampa Office Personnel date: Aug. 1943

Detailed by: O. M. Rivera, Sr. Photo Aid date: Nov. & Dec. 1943

Reviewed in compilation office by: J.A.Giles, Ass't. date: Dec. 1943
Photo Engr.

Elevations on Field Edit Sheet
checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 13.16

Shoreline (More than 200 meters to opposite shore): 42.75

Shoreline (Less than 200 meters to opposite shore): 5.1

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial plot: 57

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

DESCRIPTIVE REPORT

To Accompany

SHEET NO. T-5864

CONTROL

The only control point on this sheet is triangulation station PINELAND, 1934. However, the radial points established by the main radial plot were used as control in cutting-in additional ~~radial~~ ^{section} points.

MAIN RADIAL PLOT

A discussion of the radial plot of which this sheet is a part is included in the report for sheet T-5872.

DETAILING

Photographs were clear and no unusual difficulties were experienced in delineating shoreline and vegetation limits.

Field inspection was very satisfactory.

LANDMARKS AND AIDS TO NAVIGATION

There are no uncharted landmarks or aids to navigation on this sheet.

HYDROGRAPHIC CONTROL

There are 60 unmarked H. & T. Stations on this sheet that may be recovered for hydrographic control. *Shown only on the manuscript*

The following are marked H. & T. Stations that may be recovered for use as hydrographic control:

<u>Name of Station</u>	<u>Established by</u>	<u>Year</u>
✓ OUT	K. G. Crosby	1943
✓ SAL	" "	"
MUD	" "	"
✓ LEG	" "	"
✓ RUB	" "	"
✓ LAT	" "	"

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

No topographic quadrangle was available for comparison.

COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Coast and Geodetic Survey Nautical Chart No. 1255. The following discrepancies were noted:

(1) Florida State Highway No. 183 running north and south on Pine Island is not shown on the nautical chart. This road also runs eastward across Matlacha Pass to the mainland.

(2) A long narrow strip between the mangrove and higher ground on the west side of Pine Island is shown as water on the nautical Chart. This is mostly grown over now with mangrove and what is left is without vegetative cover is a sand flat that floods at extreme high water.

(3) The condition described in (2) above is also true on the east side of Pine Island.

(4) The shapes and sizes of some of the small mangrove islands in Pine Island Sound have changed.

It is recommended that this compilation supersede the present charted information.

Respectfully submitted,

O. M. Rivera, *leg*
Sr. Photo Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party....

GEOGRAPHIC NAMES

Survey No. T-5864

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	
Florida ✓									USGB	1
Pine Island Sound ✓										2
Pine Island										3
Fla. No. 183 ✓										4
Rocky Channel ✓										5
Rat Key ✓										6
The White Stop ✓		(white sandbars)								7
Foster Bayou ✓										8
Josslyn Island ✓										9
Benedict Key ✓										10
Big Bird Rookery ✓										11
The Woodyard ✓		(fishermen cut firewood here)								12
Panther Key ✓										13
Cayo Tuna ^{National} (Wild Life Refuge)										14
Demere Key ✓										15
Demere Key Channel ✓										16
Upper 36 Bay ✓										17
Lower 36 Bay ✓										18
Forty Acre Bay ✓										19
Cork Island ✓										20
White Rock Shoal										21
Rocky Creek ✓										22
Mason Island ✓										23
Pine Island Creek ✓										24
Little Pine Island ✓										25
										26
										27

Names underlined in red approved
by L. Heck on 12/31/46

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-5864

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Division of Photogrammetry
Review of Planimetric Map T-5864

Field Inspection and Detailing.

The field inspection was adequate.

No changes of consequence were necessary on the manuscript during this review. The reviewer has detailed shoal areas from the photographs for possible use of the Nautical Chart Branch. These are shown in red on the manuscript, but will not be included on the published map.

Comparison with Previous Surveys.

T-5864 supersedes T-739, 1:20,000, 1859. There have been many changes in cultural and natural features since the previous survey.

Comparison with Nautical Charts 474 and 1255.

T-5864 was applied to charts 474 and 1255 prior to this review. No changes have been made during the review which affect these charts except for the addition of a small boat channel at latitude $26^{\circ}35.2'$, longitude $82^{\circ}07.5'$, which it might be desirable to show on chart 474.

Reviewed under the direction of R. M. Berry, October 1945.

Review report prepared by B. G. Jones from reviewer's notes, July 1947

APPROVED BY:

B. G. Jones 7/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

H. E. Stenning
Chief, Nautical Chart Br.
Division of Charts

C. H. Green
Chief, Div. of Coastal
Surveys