

8599

Diag'd. on Diag. Ch. No. 1248-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Photogrammetry

Type of Survey Shoreline Survey

Field No. _____ Office No. T-8599

LOCALITY

State Florida

General locality East Coast

Locality Coral Gables Waterway & Vicinity

194 6

CHIEF OF PARTY

J.C. Bose

LIBRARY & ARCHIVES

DATE Mar 18 - 1949

B-1870-1 (1)

8599

DATA RECORD

T- 8599

Quadrangle (II):

Project No. (II):

Field Office:

Chief of Party: J. C. Bose

Compilation Office: Tampa, Fla. Chief of Party: J. C. Bose

Instructions dated (II III):

4 Aug., 1945

Supplemental Instructions

Div. of Photogrammetry
 Copy filed in ~~Descriptive~~
~~Report No. T- (VI)~~ office files.

Completed survey received in office: 1946

Reported to Nautical Chart Section: 1946

Reviewed: 31 July 1946 Applied to chart No.

Date:

Redrafting Completed: 24 Feb., 1948

Registered: Feb., 1948

Published: Not to be published

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N. A.*

Datum Plane (III): M. H. W.

Reference Station (III): Tank, 1930 (Warwick Silver Tank), 1934.

Lat.: $25^{\circ}38'47.685''$ (1467.4m) Long.: $80^{\circ}17'55.518''$ (1548.6m) Adjusted (N.A. 1927)
~~Unadjusted~~

State Plane Coordinates (VI): Florida East Zone

X = 731,016.63 Ft.

Y = 477,831.82 Ft.

Military Grid Zone (VI)

* N.A. 1927 (projection) shown in red on vault copy.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
45C-1557	3/9/45	10:37	1:10,000	0.2' above M.L.W.
1558	"	"	"	
1559	"	"	"	
1560	"	"	"	
45C-1732	3/13/45	10:30	"	
1733	"	"	"	
1734	"	"	"	
1735	"	"	"	
1736	"	"	"	
1737	"	"	"	

Tide from (III): Ref. Station Mayport with corrections to Miami
Yacht Basin, Biscayne Bay.
Mean Range: 2.0 Spring Range: 2.4

Camera: (Kind or source) U. S. / C. & G. S. 6" f.

Field Inspection by: Geo. E. Varnadoe date: Sept., 1945

Field Edit by: J. D. Weiler date: Dec., 1946

Date of Mean High-Water Line Location (III): Sept., 1945

Projection and Grids ruled by (III)

date:

" " " checked by:

date:

Control plotted by:

date:

Control checked by:

date:

Radial Plot by:

date:

Detailed by: Rudolph Dossett

date: May, 1946

Reviewed in compilation office by: J. A. Giles

date: May, 1946

Elevations on Field Edit Sheet
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

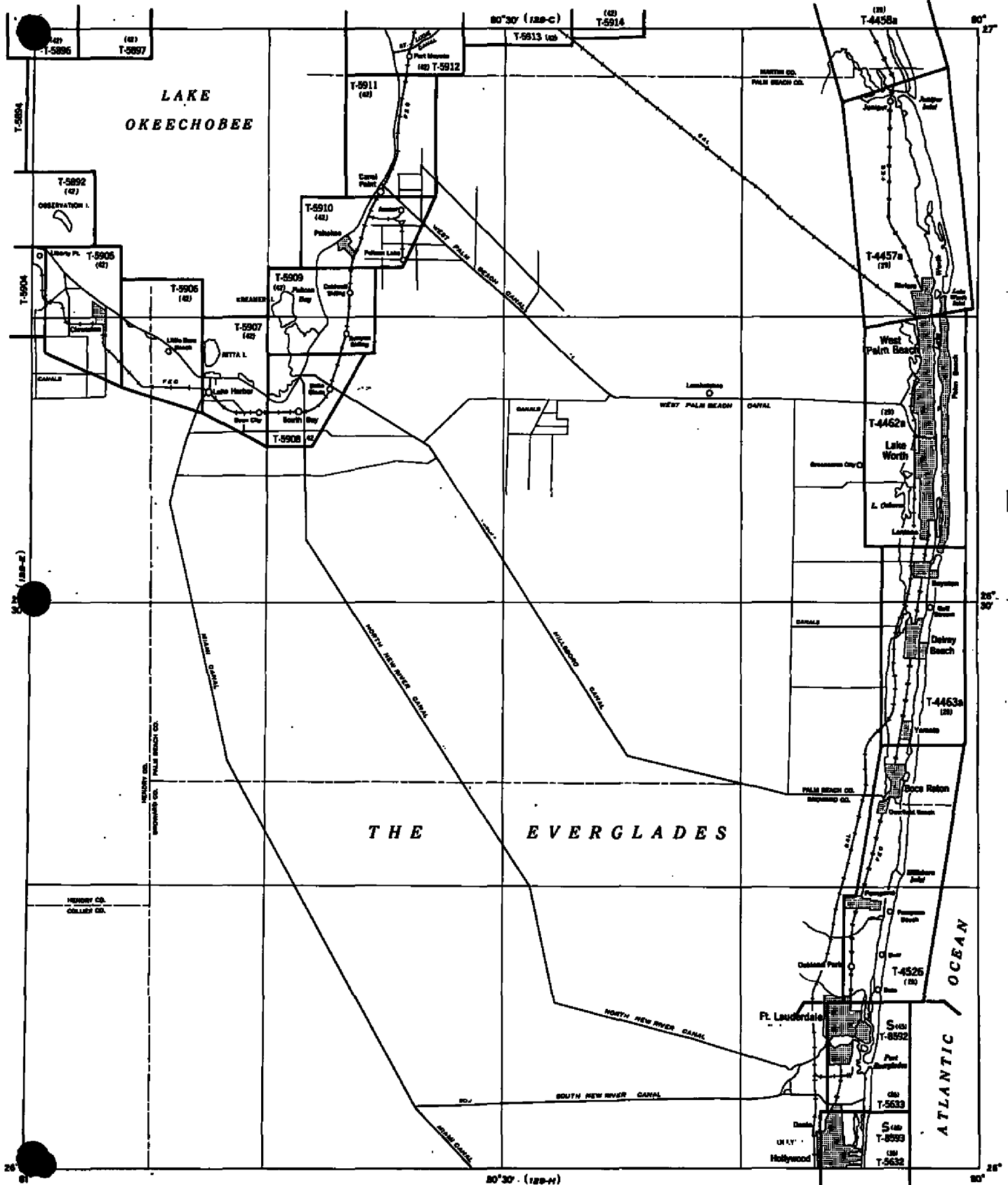
Leveling (to control contours) - miles:

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:





These maps are without contours and were
compiled from air photographs
SCALE: 1:10000 or 1:20000

T-5906 Maps published

ST-5592 Shoreline survey only, not to be published.
Photographic copies are available

Price 75c each

Photogrammetry (Shoreline) Survey 1-8528

This shoreline survey is essentially a revision of the shoreline details on planimetric map T-5626. Revised details are designated in red on the manuscript and were compiled from photographs taken March 9, 1945, and from field inspection of September 1945.

The field inspection and office compilation were accomplished by the Tampa Photogrammetric Office under supplemental instructions for project CS-312 B, dated August 4, 1945. Project CS-312 is a topographic mapping project for the production of 7½ minute topographic quadrangles. The layout of the topographic maps to be produced on this project is shown on the enclosed topographic index. These topographic maps will be published at scale 1:24,000, and will supersede for publication the planimetric maps now existing in the same area. The existing planimetric maps are shown on the enclosed planimetric indexes 129-F and 129-E.

With reference to the planimetric maps now existing within the limits of project CS-312, maps Nos. T-5626 to T-5633 are modern and accurate planimetric base maps at scale 1:10,000. The instructions for project CS-312 call for the revision of shoreline details on these sheets so that the larger scale information will be available for future hydrographic investigation and for nautical chart compilation and correction. T-5626 is one of this group of maps to be revised at the Tampa Office.

Field Inspection:

Field inspection was accomplished in September 1945, using 1:10,000 scale ratio prints of photographs Nos. 453-1757 to 453-1560 inclusive, and 453-1732 to 453-1737, inclusive.

The outside mean high water line was inspected after the September 15 hurricane as indicated by notes on the field inspection photographs.

Field inspection was accomplished by a field party of the Tampa Photogrammetric Office, Lt. Comdr. J. C. Rose in charge.


Compilation:

The manuscript consisted of a black print of planimetric map T-5626 on cellulose acetate. Shoreline corrections and additions were made in red on this print from the 1:10,000 scale single-lens ratio prints, and from the field inspection notes. These corrections include the mean high water line, offshore details, and along-shore buildings.

Review and Smooth Drafting:

Since this revision of planimetric map T-5626 is essentially a new shoreline survey with field inspection in September 1945, it is being given a new number and filed as Shoreline Survey T-8599. It will be reviewed in this office as a new survey.

In the process of drafting and reproduction, the in-shore planimetric details not covered by field inspection and not revised will be painted off or eliminated. The new sheet will then be printed and filed in the vault. It will not be published.


S. S. Jones
Technical Assistant to the
Chief, Div. of Photogrammetry

PHOTOGRAMMETRIC (Shoreline) Survey T-8599

DELINEATION:

This shoreline survey is a revision of the shoreline details on planimetric map T-5626. All revised details in red acetate ink were delineated by the Tampa Photogrammetric Office and details in green acetate ink by the Washington Office.

FIELD INSPECTION:

The field inspection was accomplished by George E. Varnadoe prior to the Hurricane of 15 September 1945 but was re-checked after the Hurricane and notations made in green ink were changes occurred. This shoreline inspection was made on 1:10,000 scale single lens photographs taken 13 March 1945.

DISCREPANCIES:

Numerous discrepancies were noted to be checked by the field editor, principally:

1. Conflicting data on bridge clearances.
2. Limits of navigable water, of the Coral Gables Waterway.

Tampa Photogrammetric Office.

Division of Photogrammetry
Review Report of
Photogrammetric (Shoreline) Survey T-8599

26. Radial Plot.-Since T-8599 is essentially a revision of the existing planimetric maps T-5626, compiled from aerial photographs dated 9 March 1945, a new radial plot was not necessary. All of the corrections and additions were made by holding to the existing detail. The scale of the photographs very closely approximated the scale of the map manuscript.

28. Detailing.-The revision of details was verified with the field inspection photographs and additions and corrections were made to the manuscript in green acetate ink.

44. Comparison with Previous Topographic Surveys.-T-8599 supersedes those areas of the following surveys which it covers:

T-336	1:20,000	1851
T-744	1:20,000	1859
T-3760	1:10,000	1919
T-4540	1:20,000	1928
T-4563	1:20,000	1930
T-5620	1:10,000	1935

45. Comparison with Nautical Charts.-The map manuscript has been compared with charts 848 and 1248. The shoreline changes on T-8599 when compared to the corresponding shorelines on the charts are of a minor nature.

T-8599 has not been applied to nautical charts at the date of this review.

Reviewed by:

L. M. Lazik
L. M. Lazik 7-31-48 K.H.M.

Under the direction of:

L. V. Griffith
Chief, Review Section K.H.M.

Approved by:

B. J. Jones 3/49
Tech. Assistant to the Chief,
Division of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

H. Edmonstone
Chief, Nautical Chart Branch
Division of Charts

C. H. Green
Chief, Division of Coastal Surveys

Field Edit Report
Photogrammetric Shoreline Survey T-8599

Field edit data for T-8599 can be found in the field edit report attached to the descriptive report for T-8435.

Division of Photogrammetry
Correction Report of
Shoreline Map Manuscript T-8599

28 Detailing

The field edit corrections and other corrections made during the review of T-8435 were made in green ink. This survey is now consistent with Topographic Survey T-8435. *A copy of the review report for T-8435 is attached to this descriptive report.*

37 Datum

The projection for the map manuscript is based on the North American datum. It should be changed to one based on the North American datum of 1927 when the final drafting of this survey is done. See page 1 of the Data Record. *

Jack Rihn *Mar. 1948*

Jack Rihn

* *The projection based on the NA 1927 is shown in red on the vault copy.*

GEOGRAPHIC NAMES

Survey No.

T-8599

Name on Survey	<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>										
	A	B	C	D	E	F	G	H	K		
<u>Florida</u>	✓								USGB	1	
<u>Biscayne Bay</u>	✓								"	2	
<u>Shoal Point</u>	✓									3	
<u>Snapper Creek Canal</u>	✓									4	
<u>Snapper Creek</u>	✓									5	
<u>Ingraham Highway</u>	✓									6	
<u>Tahiti Beach</u>	✓									7	
<u>Fairchild Tropical Garden</u>	✓		(S. side stream at lat. 40.1')							8	
<u>Matheson Hammock Park</u>	✓		(lat. 40.7')							9	
<u>Lago Maggiore</u>	✓		(easterly "dredged canal")							10	
<u>Lago Minore</u>	✓		(westerly "dredged canal")							11	
<u>Coccolt Grove</u>	✓								USGB	12	
<u>Coral Gables</u>	✓									13	
<u>Coral Gables Waterway</u>	✓		(Biscayne Bay to Le Jeune Road)							14	
<u>Coral Gables Canal</u>	✓		(west of Le Jeune Road)							15	
<u>Lago Monaco</u>	✓		(waterway S. of Coral Gables Waterway, and parallel to it, about lat. 41.15')							16	
										17	
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										24	
										25	
										26	
										27	

Names underlined in red are approved.

11/24/47

L. Heck

M 234

Names underlined in red are approved.

11/24/47

L. Heck

Division of Photogrammetry
Review Report of
Topographic Map Manuscript T-8435

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26 - Control. - The triangulation station Coconut Grove, Chimney, 1934 was listed as Coral Gables, Chimney, 1934 in the published list of geographic positions. The station does not lie in Coral Gables. Geodesy has been notified and the station name changed to Coconut Grove, Chimney, 1934.

A Form M 2388-12, listing the triangulation stations shown on the map manuscript, was inserted in the descriptive report.

28 - Detailing. - The lines in the portion of the map manuscript that was printed from the planimetric manuscripts of this area, were weak and required a considerable amount of redrafting by the reviewer. The smooth draftsman should have sheets T-8597 and 8599 for reference to enable him to distinguish the details in the congested areas.

Buildings were delineated on the map manuscript along the waterfront in the Miami urban area.

Many buildings, roads and woods classifications that had been omitted by the compiler and the field editor, were added to the map manuscript.

A road north of the Tropical Park Race Track was redrafted in its correct position.

Hachures along cuts and fills were removed except where they are shown on depression contours.

34 - Landmarks and Aids to Navigation. - A Form 567 was forwarded to Nautical chart section for the landmark, Radio Tower (Wood), 1945.

37 - Recoverable Topographic Stations. - The names of the three recoverable topographic stations that are on the map manuscript, were changed to agree with the names shown on the Form 524 cards.

39 - Junctions. - The junctions were checked and minor discrepancies in woods classification and city limits were corrected.

All junctions are now satisfactory.

40 - Geographic Names. - Names were added to the map manuscript from the approved list of names submitted by the Geographic Names Section.

Street names were deleted because they were indistinguishable from buildings after they were reduced and printed from the planimetric manuscripts.

44 - Comparison with Existing Topographic Surveys:-

T- 336	1:20,000	1851
T- 744	1:20,000	1859
T-3758	1:20,000	1919
T-3760	1:10,000	1919
T-4540	1:20,000	1928
T-8597	1:10,000	1945
T-3599	1:10,000	1945

These surveys are superseded in common area by T-8435.

45 - Comparison with Nautical Charts:-

Chart No. 1248	1:80,000	1937 Corr. 1946
" " 848	1:40,000	1939 Corr. 1946

The map manuscript is in excellent agreement with the charts with the following exceptions:

The pier south of Chapman Field is not on the charts.

The clearances of bridges over the navigable portion of the Coral Gables Waterway, are not shown on the charts.

The map manuscript has not been applied to Nautical Charts.

48 - Accuracy Tests. - The vertical accuracy test made on this quadrangle meets the specifications for the Project. This map complies with the national standards of map accuracy requirements.

49 - Overlays. - An overlay was prepared showing the marginal data, city limits, road classification and route numbers, selected triangulation stations, bench marks, topographic stations and spot elevations that are to be shown by the smooth draftsman.

An ozalid print was prepared to clarify the contours and section lines for the draftsman.

50 - Review Summary. - The map manuscript was partially reviewed by B.T. Hynson. Discrepancies that were listed on an ozalid print of the map by the original reviewer were corrected.

No further investigation of the control or the land lines was made during this review.

Reviewed by:

Reviewed under direction of:

C. Theurer - 3-4-48
Photogrammetrist

S. V. Griffith
Chief, Review Section

APPROVED BY:

Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

SURVEY NO. T8599

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.