

8378

Diagram on Diagram Ch. No. 1257-2

8378

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No. T-8378	Office No.
LOCALITY	
State	Florida
General locality	Tampa Bay
Locality	Dunedin
194 ³	
CHIEF OF PARTY	
Ray L. Schoppe	- Field
K. G. Crosby	- Compilation
LIBRARY & ARCHIVES	
DATE	April 1943

DATA RECORD

T- 8378

Quadrangle (II): Dunedin

Project No. (II): CS 290 A

Field Office: 1101 E. Broadway
Tampa, Florida

Chief of Party: Ray L. Schoppe

Compilation Office: "

Chief of Party: K. G. Crosby

Instructions dated (II III):
Nov. 16, 1942Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 5/12/43 Applied to chart No. Date:

Redrafting Completed: 7/31/43

Registered:

Published: 1944

Compilation Scale: 1:20000

Published Scale: 1:31,680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III):

Reference Station (III): Hog Island, 1934

Lat.: $28^{\circ}04'58''.874$ (1612.3 m) Long.: $82^{\circ}49'45''.246$ (1235.4 m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

X = 232,609.03

Y = 4363,740.56

Military Grid Zone (VI)

"B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
---------------	-------------	-------------	--------------	----------------------

Shoreline taken from 1:10000 scale photographs used on compilation of sheets on Project H.T. 242.

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source) U.S.C.&G.S. Nine lens ($8\frac{1}{4}$ focal length)

Field Inspection by:

date:

Field Edit by: Clarence C. Fryer

date: Jan.-Feb., 1943

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

Projection and Grids ruled by (III) Washington Office date:

" " " checked by: " " date:

Control plotted by: Project H. T. 242 date:

Control checked by: " " " date:

Radial Plot by: " " " date:

Corrected

~~Detailled~~ by: Samuel C. Jaspan

date: April, 1943

Reviewed in compilation office by:
Edward C. Andrews and James H.S. Billmyer

date: April, 1943

Elevations on Field Edit Sheet
checked by: *Grigton O. Demar*
Washington Office

date: *May 14, 1943*

STATISTICS (III)

Land Area (Sq. Statute Miles): 17.8

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: 97 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: Shoreline was measured previously on Project H.T.242.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 290-A, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1939 and were published in 1945 on the scale of 1:10,000. Lithographic prints of the base sheets on cloth-mounted paper were furnished to the field parties.

FIELD SURVEYS

No new photography was used in the preparation of this map.

Contouring and revision of the planimetric base map were by planetable methods. The completed field sheets were transmitted directly to the Washington Office as no photogrammetric work was involved in the completing of the base map.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the base map. Contours, additions, and corrections were transferred directly from the field sheets to the appropriate color separation drawing by projector and inked. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680

FIELD EDIT AND FIELD INSPECTION REPORT

QUADRANGLE T-8378

The field work on this quadrangle was accomplished on a base sheet compiled in the Tampa office from existing planimetric maps, numbers T-5819 and T-5820. In compliance with written instructions, therefore, items 1 through 5 in the descriptive report outline have been omitted.

5. The method used in running the vertical control on this quadrangle was to establish one large loop; lines not tying into bench marks were tied into this line. The closures on this quadrangle were all small, and they were adjusted by tying into other lines and adjusting proportionately.

All Coast and Geodetic Survey bench marks furnished were used as ties for different lines. Second order levels run in 1942 and 1943 were not furnished until work on this quadrangle had been completed. Other control used besides the U. S. Coast and Geodetic marks were EDD 85 and EDD 86. No adjustment on these bench marks was necessary.

One line of levels was run on two off-shore islands north of Clearwater Beach. Inasmuch as there was no vertical control established previously, a point was established across the first channel on Hog Island from a temporary bench mark on the northeast corner of

Sea Wall on Clearwater Beach. From this elevation, the line was continued to the north extremity of the key, setting temporary bench marks approximately one-half mile apart. In like manner, the line was continued across the second channel to Honeymoon Island and run to a point approximately one-half mile beyond Pelican Cove. The line was back run through the principal temporary bench marks to the starting point with a satisfactory closure. No point exceeding nine feet was found on either key.

6. Planetable methods were used in contouring the entire quadrangle. Due to the flat country, best results were obtained by running a planetable traverse along each contour. In the extreme northern portion where rough and brushy ground was encountered, a few lines were run using hand levels and pacing.

A close network of fly levels was run throughout the quadrangle, making extended planetable traverses unnecessary. All traverses were tied in within one foot in elevation.

Drainage consisted of two streams and one ditch system. No work was necessary on either of these, as they were satisfactorily shown.

7. No information available.

8. No information available.

9. All wharves and shoreline structures of importance have been shown; those which have been destroyed were deleted from the map.

10. No information available.

11. All aids to navigation have been checked by planetable methods. Those that have been moved were relocated. All prominent landmarks were charted.

12. There is no information pertaining to hydrographic control.
13. One (1) airport is shown on this compilation. It is a part of the military reservation north of Dunedin and is no longer used as an airport.
14. All roads have been classified by type according to instructions issued January 12, 1942. A small number of short private roads that serve only a limited purpose have been deleted. All roads in urban or congested areas are to be considered Class 1 roads, unless otherwise noted.
15. All bridges in this quadrangle have been classified according to capacity and to vertical and horizontal clearance. All bridges are in good condition.
16. All buildings which are in good condition and were omitted from the manuscript have been added. Those in a poor state of repair, small garages (one car), open sheds, etc. have been deleted.
17. All political subdivision lines have been checked in the field.*
19. All new bench marks were located in the field by taping the distances to them from known objects. All old bench marks were checked in the field and their locations were found to be correct.
46. The field edit of this manuscript was made by making a visual inspection of all detail shown. Necessary additions of detail were made by measurement from well-defined points shown on the manuscript or by planetable methods. Since the added detail on this manuscript will be traced on the celluloid sheet, no colored inks were shown on this manuscript.

*The political subdivision boundaries are not complete on this survey. So far as any information on hand efforts is concerned, political boundaries were completed and are shown on taping one of the field subdivisions for this quadrangle. Page 8/46.

47: The compilation was complete insofar as the detail was concerned, with the exception of the buildings in the towns and congested areas. The addition of these buildings plus some changes in the classification of roads, vegetation, etc. complete the compilation.

Referring to paragraph 71 of the instructions, this party found that a considerable number of the W.P.A. traverse stations were used in controlling the compilation. Therefore, in order to have a check on the accuracy of the work, a check traverse was run from Y 161 to Y 162 on quadrangle T-8378 to Y 27 and Y 28 on quadrangle T-8377. Approximately one mile of this traverse is within the limits of the quadrangle. The field work on this traverse has just been completed and it is still to be computed. In order that the work should not be slowed up, the field survey sheets were transferred to Compilation Party No. 1 in March, 1943. They have since been forwarded to Washington. Therefore, a check on the topography will have to be made by the Washington office.

48. The section of the 20-foot contour tested on this sheet is within the required limits of accuracy as set forth in the instructions, and 5 foot contours can be added at a later date. This test contour is shown by orange lines connected to black dots; the black dots indicate the elevations on the contour ascertained in the field. The test contour was run independent of this topographic sheet on a copy of the map assembly and then transferred to this sheet and checked.

The test on vertical accuracy was run by Mr. Charles Hanavich, Principal Photogrammetric Aid.

The levels on this quadrangle were run by Mr. E. R. Loudon, Assistant Engineering Aid, and Mr. A. W. Paul Rogers, Photogrammetric Aid. That portion of the descriptive report pertaining to levels was prepared by these two men.

The contouring for this quadrangle was done by Mr. Ralph E. Houtrouw, Photogrammetric Aid, and that portion of the report pertaining to contours was written by him.

The main body of this report was prepared by Mr. Clarence C. Fryer, Senior Photogrammetric Aid, who completed the field edit on this quadrangle during the months of January and February, 1943.

Respectfully submitted,

Clarence C. Fryer

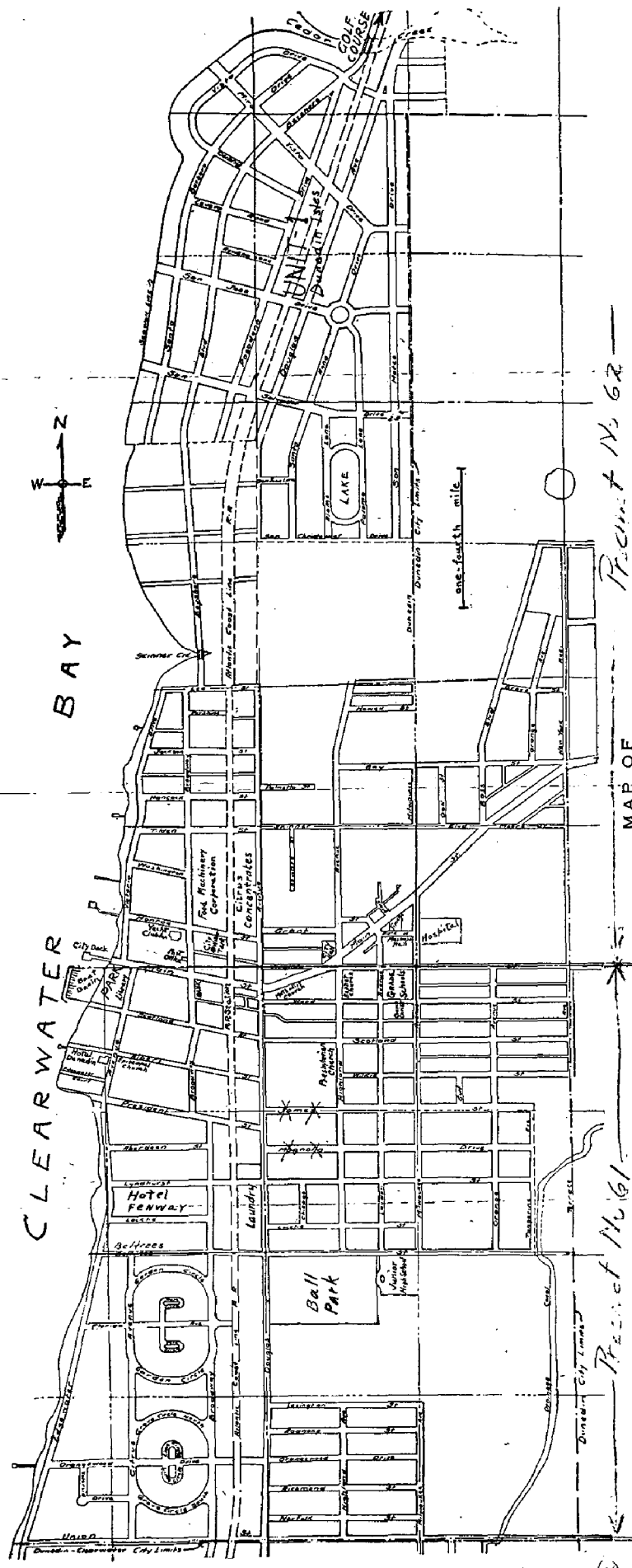
Clarence C. Fryer
Sr. Photogrammetric Aid

Approved 4/23/43

Ray L. Schoppe

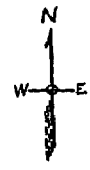
Ray L. Schoppe
Chief of Party
WMFP#2

8-2483



CLEARWATER

BAY



MAP OF

THE CITY OF DUNEDIN
DUNEDIN, FLORIDA

Page of No. 62

Page of No. 61

COMPILATION REPORT
QUADRANGLE T-8378
Project No. C.S. - 290

GENERAL

This sheet is a reduction from 1:10,000 to 1:20,000 of sheets previously compiled (Project H.T. 242) from air photographs.

Information used in the additional detailing of Quadrangle T-8378 was taken from a base sheet which was used in the field.

Field inspection was good and no discrepancy sheet had to be made.

Contouring was done from a red line print of an air photo compilation which was used in the field. Twenty, forty and sixty foot contours were shown. Spot elevations were taken of road intersections, railroad crossings and bridges in rural districts and at street intersections in urban districts.

It was not possible to make an overlay of political boundaries because of lack of information in this office. This information will be furnished at a later date by the field party on a chart paper print of this quadrangle. It will show both the city limits and political sub-division.

Indistinct names or unnamed triangulation and traverse stations can be corrected from original compilations, scale 1:10,000 which are on file in the Washington office.

LANDMARKS AND AIDS TO NAVIGATION

Two non-floating aids have been destroyed and nine have been moved since the previous compilations were made. The correct geographic position of these aids are listed on attached forms 567.

See chart letter #251

Respectfully submitted,

Samuel C Jaspan

Samuel C. Jaspan,
Engineering Draftsman

Forwarded by:

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

TESTS FOR HORIZONTAL ACCURACY

Quadrangles T-8378 and T-8377
Project CS 290A

Place in Desc. Report
T-8377 and so
into T-8378

This test consists of a traverse between traverse station Y 162 and traverse station Y 28. The traverse is 6.4 statute miles in length, and contains 20 test points, 14 of which were well defined and compiled. The first two test points compiled are within the boundaries of Quadrangle T-8378; the remainder of the test points compiled are within the boundaries of Quadrangle T-8377.

The traverse closure is one part in 5752, and a discrepancy of 1.78 meters was adjusted through the traverse. The test points are referred to in the computations as P.P. (photograph point number) and the test points are scaled from the map manuscript and referred to as M.M.

Tabulation of Test Points

Description of point	Test point number	Latitude	Longitude	Difference in mm.
Inter. of road & road, 85 degrees	P.P. 1 M.M. 1	28 02 1670.3 1670.8	82 45 964.5 960.0	.226
Inter. of road & road, 85 degrees	P.P. 2 M.M. 2	28 02 1666.8 1668.6	82 45 498.8 489.0	.498
Inter. of road & road, 90 degrees	P.P. 4 M.M. 4	28 02 1668.7 1676.6	82 44 1381.4 1374.3	.528
Inter. of road & stream 50 degrees	P.P. 6 M.M. 6	28 02 765.3 757.6	82 44 1370.8 1369.1	.394
Inter. of road & road, 80 degrees	P.P. 8 M.M. 8	28 01 1539.6 1538.8	82 44 1358.3 1355.4	.150
Inter. of road & road 90 degrees	P.P. 10 M.M. 10	28 01 267.6 266.1	82 44 1343.4 1345.4	.125
Inter. of road & road, 90 degrees	P.P. 11 M.M. 11	28 01 265.8 268.1	82 44 920.7 922.0	.132
Inter. of road & ditch 90 degrees	P.P. 12 M.M. 12	28 01 267.1 269.8	82 44 752.6 757.6	.284
Inter. of road & power line, 90 degrees	P.P. 13 M.M. 13	28 01 270.5 272.4	82 44 58.6 58.0	.100

Description of point	Test point number	Latitude ° ' "	Longitude ° ' "	Difference in mm.
Inter. of road & road, 90 degrees	P.P. 14 M.M. 14	28 01 275.7 277.8	82 43 1292.4 1294.1	.135
Inter. of road & ditch 45 degrees	P.P. 16 M.M. 16	28 01 297.3 295.8	82 42 1596.1 1595.1	.096
Inter. of road & road, 45 degrees	P.P. 17 M.M. 17	28 01 702.7 702.3	82 42 901.6 894.5	.356
Inter. of road & ditch 90 degrees	P.P. 18 M.M. 18	28 01 1017.9 1020.0	82 41 583.3 577.6	.304
Inter. of road & drive 90 degrees	P.P. 20 M.M. 20	28 01 1099.8 1100.9	82 41 1315.5 1309.6	.301

The manuscript error is less than .5 mm at all points tested except for test points 4; the horizontal accuracy is good and within the requirements of the instructions.

Submitted by:

Charles Hanavich
Prin. Photo. Aid

Traverse run by:

William A. Rasure
Sr. Photo. Aid

Approved by:

Ray L. Schoppe,
Chief of Party.

T-8378

No. 1

Remarks

Decisions

1		280827
2		11
3		11
4		11
5		11
6		11
7		11
8	<i>Not added to black plate Hla</i>	11
9	<i>" " " " "</i>	11
10		11
11		11
12	<i>Not added to black plate Hla</i>	11
13		11
14		11
15		11
16		11
17		11
18	Names Report had this Lungrun Bayou, although it obviously looks more like a cove	11
19		11
20		11
21		11
22	Names Report had this as SUTHERLAND rather than Southerland	11
23		11
24		11
25	<i>Not added to black plate Hla</i>	11
26		11
27		11

GEOGRAPHIC NAMES

Survey No. T-8378

DUNEDIN quadrangle

No. 1 Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
✓ Dunedin ✓	✓		✓						1
✓ St. Joseph Sound ✓	✓		✓						2
✓ Jerry Lake ✓	✓		✓						3
✓ Brickyard Creek ✓	✓		✓						4
✓ Dunedin Isles ✓	✓		✓						5
✓ Sand Keys ✓	✓		✓						6
✓ Cedar Creek ✓	✓		✓						7
✗ Cedar Creek Flat									8
✗ Curlew Flats									9
✓ Curlew Creek ✓	✓		✓						10
✓ Jerry Branch ✓	✓		✓						11
✗ Horseshoe Bar									12
✓ Ward Island ✓	✓		✓						13
✓ Smith Islands ✓	✓		✓						14
✓ Smith Bayou ✓	✓		✓						15
✓ Minnow Creek ✓	✓		✓						16
✓ Brooker Creek ✓	✓		✓						17
✓ Lungrun Cove ✓	✓		✓						18
✓ Burghstream Point ✓	✓		✓						19
✓ Ozona ✓	✓		✓						20
✓ Palm Harbor ✓	✓ (town)		✓						21
✓ Sutherland Bayou ✓	✓		✓						22
✓ Ogden Bayou ✓	✓		✓						23
✓ Seaside Point ✓	✓		✓						24
✓ Blue Sink									25
✓ Crystal Beach ✓	✓		✓						26
✓ Greens Bayou ✓	✓		✓						27

T-8378

No.. 2

Remarks

Decisions

1	Pending with USGB, as against hitherto charted name of Indian Bluff: apply pending decision	281827
2		''
3		''
4	Apply pending USGB decision: hitherto Stony Pt.	''
5	Apply pending USGB decision with respect to this or the spelling of Klesterman	''
6		''
7	<i>Falls on "Tarpon Springs" Quadrangle - To The North</i>	''
8		''
9		280828
10		''
11		''
12		''
13		''
14	Revision of this decision of USGB submitted: apply approved name pending its decision	'' USGB
15		''
16		''
17		''
18		''
19		''
20		''
21		''
22		''
23		''
24		''
25		''
26	<i>Not shown on black Plate Hfa</i>	''
27	Only its north end on this quad.	279828

GEOGRAPHIC NAMES

Survey No. T-8378

No. 2

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Buchanan Island ✓	✓		✓						1
Wall Springs ✓	✓		✓						2
Garden Island ✓	✓		✓						3
Daneman Point ✓	✓		✓						4
Cloesterman Bayou ✓	✓		✓						5
Cloesterman Point ✓	✓		✓						6
Sneads Creek ✓									7
Boggy Bayou ✓	✓		✓						8
Grassy Key ✓	✓		✓						9
North Point ✓	✓		✓						10
Pelican Cove ✓	✓		✓						11
Pelican Point ✓	✓		✓						12
Little Bayou ✓	✓		✓						13
Hurricane Pass ✓	✓		✓						14
Caladesi Island ✓	✓		✓						15
Lone Oak Point ✓	✓		✓						16
Seven Mouth Creek ✓	✓		✓						17
Bird Key ✓	✓		✓						18
Redfish Point ✓	✓		✓						19
Scharrer Bayou ✓	✓		✓						20
Scharrer Canal ✓	✓		✓						21
Big Pass ✓	✓		✓						22
Moonshine Island ✓	✓		✓						23
Malone Island ✓	✓		✓						24
Malone Point ✓	✓		✓						25
Core Island ✓	✓		✓						26
Dump Bank									27
Clearwater Beach Island ✓	✓		✓						

T-8378

No. 3

Remarks

Decisions

1		Railway Guide
2		Road Maps
3		"
4		"
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GEOGRAPHIC NAMES

Survey No. T-8378

GEOGRAPHIC NAMES											
Survey No. T-8378											
Name on Survey											
	A	B	C	D	E	F	G	H	K		
✓ A.C.L. R.R.			✓								1
✓ U.S. Highway No. 19			✓								2
✓ Florida Highway No. 229			✓								3
✓ Florida Highway No. 228			✓								4
✓ Pinellas County			✓								5
✓ Gulf of Mexico			✓								6
											7
											8
											9
											10
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Names underlined in red approved

by L. Heck on 6/21/43

M 234

Names underlined in red approved
by L. Heck on 6/21/43

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

published quadrangle at 1:20,000 scale

Black and white cloth-mounted copy of the ~~map~~ ~~manuscript~~. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For ~~political boundaries~~, woodland, ~~marsh~~, and ~~swamp limits~~, refer to the published quadrangle for the finally adopted ~~positions~~, outlines.

Descriptive Report.

Division.

Filed in the Photogrammetric Section — Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in ~~Reviewing Unit~~ Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T. Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8378

DUNEDIN QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

A horizontal accuracy test was run in this area and found to be satisfactory. The test is enclosed in this Descriptive Report.

A vertical accuracy test was run in this area and found to be satisfactory. See Item 48, page 4, in the Field Edit Report enclosed in this Descriptive Report.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-1301a	1:20,000	1873
T-1698	1:20,000	1884
T-4214	1:10,000	1926
T-4219	1:20,000	1925-26

Comparison with Nautical Charts Nos. 178, 1257.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

The details of T-8378 are complete and adequate for chart correction.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed 5/12/43 By Cuighton A. De Marr
under direction of D. H. Benson

Inspected by B. G. Jones B.G. Jones 8/46

Examined and approved:

K. T. Adams
Chief, ~~Surveys Branch~~
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. Hux
Chief, Div. of Charts
Nautical Chart Branch

Raymond R. Egan
Chief, Div. of Coastal
Surveys