

8595

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

PHOTOGRAMMETRIC

Type of Survey SHORELINE SURVEY

Field No. _____ Office No. T-8595

LOCALITY

State FLORIDA

General locality EAST COAST

Locality NORTH MIAMI

1945

CHIEF OF PARTY

Lt. Comdr. L. W. Swanson

LIBRARY & ARCHIVES

DATE Feb - 16 - 1949

B-1870-1 (1)

8595

DATA RECORD

T-8595

Quadrangle (II):

Project No. (II): 312-B

Field Office: Tampa

Chief of Party: Lt. Comdr. J. C. Bose

Compilation Office: Tampa

Chief of Party: Lt. Comdr. J. C. Bose

Instructions dated (II III):
 Aug. 4, 1945-Supplemental
 instructions, project 312-B

Copy filed in ~~Descriptive~~
~~Report No. XX~~ (VI)
 Div. of Photogrammetry
 Office Files

Completed survey received in office: September 1947

Reported to Nautical Chart Section:

Reviewed: 23 April 1946 Applied to chart No.

Date:

Corrected: March 1948

Redrafting Completed:

Registered: ~~7 Jan~~ 1949

Published: Not to be published

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): North American Datum Plane (III): M.S.L.

Reference Station (III): CAUSEWAY, 1934

Lat.: 25°50'52.421"
 (1613.0M)

Long.: 80°10'22.927"
 (638.4M)

~~Adjusted~~
 Unadjusted

State Plane Coordinates (VI):
 25°50'51.751 (1593.5m) 80°10'22.900 (637.7m) Adjusted
 NA 1927

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
45-C 1605	3-9-45	11:15	1:10,000	/ 0.3 M.L.W.
1606	"	"	"	/ 0.3
1607	"	"	"	/ 0.3
1608	"	"	"	/ 0.3
1609	"	"	"	/ 0.4
1629	"	11:30	"	/ 0.4
1630	"	"	"	/ 0.4
1631	"	"	"	/ 0.4
1632	"	"	"	/ 0.4
1565	"	11:15	"	/ 0.3
1566	"	"	"	/ 0.3
1567	"	"	"	/ 0.3
1568	"	"	"	/ 0.3 M.L.W.

Tide from (III):

Mean Range: 2.0

Spring Range: 2.4

Camera: (Kind or source) Single lens, six in. focal lengthⁱⁿ USC&GS

Field Inspection by: Ben O. Bryant & H. A. Duffy date: Sept. & Nov. 1945

Field Edit by: Weillae

date: Sept. 1947

Date of Mean High-Water Line Location (III): Sept. 31 and Oct., 1945
After Sept. 15th Hurricane)

Projection and Grids ruled by (III) This is a revision date:

" " " checked by: " " " date:

Control plotted by: " " " date:

Control checked by: " " " date:

Radial Plot by: " " " date:

Detailed by: Rudolph Dossett (shoreline revision) date: Feb. & Mar., 1946

Reviewed in compilation office by: Jesse A. Giles date: March 1946

Elevations on ^{Map Manuscript} ~~Field Edit Sheet~~
checked by: Not applicable

date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Not Applicable
(This is a revision)

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:

It was originally planned for T-8595 to be a planimetric map. A change in plans converted T-8595 to a shoreline map, supplemented by topographic quadrangle T-8433.

To avoid duplication in this report items which are only applicable to T-8595 have been mentioned. Also a copy of the final review report of T-8433 has been attached.

For items not mentioned in this report, refer to descriptive report T-8433.

When entering names of personnel on this record give the

*The serials for Cn 33 & 37, were submitted on with
T-8594 (also T-5631). They have been checked during
the review of T-8595. Cn. 37 checked with files which
Cn 33 would affect. 28m. A. N.E. 7m 567 was corrected for Bn 33.*

M. M. M.

... to be ... of the ...
... to be ... of the ...
... to be ... of the ...

PHOTOGRAMMETRIC (Shoreline) SURVEY T- 8595
29 March, 1946

26 and 27 CONTROL and RADIAL PLOT.

The instructions dated 25 May, 1945 (supplemental instructions dated 4 August, 1945) specified that no radial plot was to be run for the revision of the 1:10,000 scale planimetric maps; however, since an experimental plot (by the slotted templet method) was run in this area it was decided to use the results of this plot during the revision of this map. The original details compared excellently with the radial plot except for the area in the immediate vicinity of "Normandy Isle".

28. DETAILING.

The field inspection was satisfactory for the revision of the shoreline details. The photographs were clear and easily interpreted.

In the vicinity of "Normandy Isle" the planimetric details shifted approximately fifteen (15) meters. The island area was regrafted to correspond with the corrected shoreline. (See paragraph 26 and 27 above).

*redrafting
in red
ink.*

34. LANDMARKS and AIDS to NAVIGATION.

Attention is called to Beacons ¹⁶33 and ^{16 37}34, shown on the map manuscript with a question mark. They were ^{T-5630} beacons No. 39 and No. 43 respectively on the old compilation. During the revision of the area in which they are situated it was discovered that they were not on the "List of Sextant Fixes on Beacons" furnished from the field. It is probable that the fixes establishing their positions are on the list which accompanied Revised Planimetric Map T-5631, now in the Washington Office. It is requested that such list be examined and the questioned positions checked.

15631

Respectfully submitted

Rudolph Dossett
Rudolph Dossett, Prin. Photo-
grammetric Aid.

Approved and Forwarded.

L. W. Swanson
Lt. Comdr. L. W. Swanson;
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Page 1 of 2

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Tampa Photogrammetric Office
1101 E. Broadway, Tampa 5, Fla.

19 46

I recommend that the following objects which ~~have been inspected~~ ^{have} been inspected from seaward to determine their value as landmarks, be charted on ~~future charts~~ the charts indicated.

The positions given have been checked after listing by Jesse A. Giles

Lt. Comdr. L. W. Swanson Chief of Party

STATE Florida - Biscayne Bay				POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM								
			° ' "	D. M. METERS	° ' "	D. P. METERS									
Bn. 33	Intracoastal Waterway	None	25 52	1706	80 08	1290	N.A.		Sextant Fix	Oct 1945	X			847	
Lt. 35	"	"	25 52	1365	80 08	1523	"		"	"	X			"	
Bn. 37	"	"	25 52	1031	80 09	89	"		"	"	X			"	
" 39	"	"	25 52	671	80 09	355	"		Sextant Fix	Oct 1945	X			"	
" 41	"	"	25 52	371	80 09	546	"		"	"	X			"	
" 43	"	"	25 51	1791	80 09	836	"		"	"	X			"	
Lt. 45	"	"	25 51	1462	80 09	1062	"		"	"	X			"	
Bn. 47	"	"	25 51	1021	80 09	1367	"		"	"	X			"	
" 49	"	"	25 51	634	80 09	1631	"		"	"	X			"	
" 51	"	"	25 51	303	80 10	187	"		"	"	X			"	
" 53	"	"	25 50	1789	80 10	436	"		"	"	X			"	
" 55	"	"	25 50	901	80 10	511	"		"	"	X			"	
" 57	"	"	25 50	542	80 10	531	"		"	"	X			"	
" 59	"	"	25 49	1808	80 10	572	"		"	"	X			"	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under column heading should be given.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED
~~TO BE DELETED~~**

STRIKE OUT ONE

28 March 1946

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by Jesse A. Gile.

Lt. Comdr. L. W. Swanson Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Page 1 of 1

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE EXCLUDED~~

STRIKE OUT ONE

Tampa Photogrammetric Office

1101 E. Broadway, Tampa 5, Florida 28 March 1946

I recommend that the following objects which have ~~(inserted)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(inserted)~~ the charts indicated.

The positions given have been checked after listing by Jesse A. Giles

Lt. Comdr. L. W. Swanson Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
				° ' "	D. M. METERS	° ' "	D. P. METERS								
None	*Channel Marker	None	25 50	1366	80 08	352	N.A.	Sextant	March 1946	X			847		
"	"	"	"	25 50	1182	80 08	170	"	"	"	X		"		
"	"	"	"	25 50	785	80 08	322	"	"	"	X		"		
"	"	"	"	25 50	332	80 08	328	"	"	"	X		"		
"	"	"	"	25 49	1696	80 08	183	"	"	"	X		"		
"	"	"	"	25 49	1145	80 08	411	"	"	"	X		"		
"	"	"	"	25 49	593	80 08	693	"	"	"	X		"		
*		The locations of these markers are listed from north to south, beginning with the first marker south of Normandy Isle. They mark the channel along the east side of Biscayne Bay, between the 79th St. Causeway and McArthur Causeway. These markers consist of iron pipes projecting above high water, from one foot to approximately five feet. Some of the markers have wooden arrows pointing to the channel. The rest are just pipes with no identifying marks or devices. None of the channel bear numbers, letters or inscriptions of any sort.													

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

Survey No. T-8595 (shoreline)

North Miami, Fla.

1 Name on Survey

A

B

C

D

E

F

G

H

K

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

Florida

USGB

1

Dade County

2

Atlantic Ocean

3

Florida East Coast

4

Intracoastal Waterway

USGB

5

Biscayne Bay

"

6

U.S. No. 1

7

Florida ALA

Collins Avenue

8

Miami Beach

(city)

9

Miami

"

USGB

10

11

Firestone Estate

12

Biscayne Waterway

13

Surprise Lake

14

Surprise Waterway

15

Flamingo Waterway

16

La Gorce Golf Course

17

La Gorce Island

18

La Gorce Canal

19

Indian Creek

USGB

20

St. Francis Hospital

21

Allison Island

22

Bath Club

23

Atlantic Heights

24

Normandy Isle

25

Normandy Waterway

26

Municipal Golf Course

27

GEOGRAPHIC NAMES

Survey No. T-8595

2	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
	Biscayne Point									1
	Tatum Waterway									2
	Surfside									3
	Point Lake									4
	Indian Creek Village									5
	Indian Creek Country Club Golf Course									6
	North Miami									7
	Biscayne Park			(small town)						8
	Biscayne Canal									9
	Miami Military Academy									10
	Miami Shores									11
	Miami Shores Municipal Golf Course									12
	Lake Ward									13
	Lake Belmar									14
	El Portal			(small town)						15
	Little River			(town)						16
	Little River									17
	Little River Canal									18
	79th Street Causeway									19
	Harbor Island									20
	North Bay Island			(this is name of the village on the island)						21
	Belle Meade Island			(not Bell)						22
	Bird Key									23
	American Legion Club									24
	Bayshore									25
	Morningside Park									26
	Bay Point									27

GEOGRAPHIC NAMES

Survey No. T-8595

3 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

Lemon City

(branch p.o.)

1

North Bay village

2

3

Names underlined in red are
approved. 6/16/48

4

L. H. H. V

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

FIELD EDIT REPORT
PHOTOGRAMMETRIC SHORELINE SURVEY

T-8595

PROJECT CS-312-B

The field edit of this sheet was completed during September, 1947 by John D. Weiler, Photogrammetrist.

46. METHODS

Field edit of this sheet was done in conjunction with the edit of quadrangle T-8433. The inspection of the shoreline along the mainland and the west side of Miami Beach was done with a small boat. The inspection of the ocean side of Miami Beach was done by driving to the shore at accessible places and by walking along the shore.

Special edit instructions for this area designate shoreline corrections to be made on the 1: 10,000 shoreline sheets and inshore corrections to be made on the 1: 20,000 quadrangle T-8433. This was adhered to as closely as possible. However, where any definite plotting was necessary in shoreline work, it was done on Quadrangle T-8433. This was necessary because of the mangled condition in which ozalid prints of shoreline surveys T-8595 and T-8596 were received. This, in fact, has been the case of every shoreline survey sheet received for field edit. Double weight prints of these sheets would be much more satisfactory.

All data added to the field edit sheet were either plotted from topographic features or cut in by planetable methods.

T-8595 should be cross checked with T-8433, and pertinent data transferred by the compilation section.

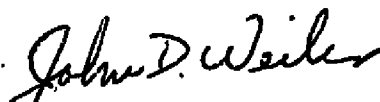
47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was adequate and correct except for changes since the date of the original field inspection and a few details overlooked either by that inspection or by the compiler.

Bridge clearances were checked where indicated on the discrepancy sheet. All clearances checked were carefully measured with a steel tape, and where clearances so determined did not agree with data listed in the U.S. Engineers "List of Bridges Over Navigable Waters of the U.S.", dated July 1, 1941, the discrepancies have been reported to the local District Engineer. (See copy of letter attached to Field Edit Report, T-8433).

Areas of new fill along the North Bay Causeway and north of Biscayne Point were run in by planetable, and are shown either on this sheet or T-8433.

The compiler did not show houses along the Biscayne Waterway (at the S.E. corner of the sheet). These buildings are visible on Photo C-1609 and should be compiled.



John D. Weiler
Photogrammetrist

Supervised:



Lewis V. Evans, III
Lieut. (jg) USC&GS

APPROVED AND FORWARDED:



Ross A. Gilmore
Chief of Party

Review Report for *
Shoreline Map Manuscript T-8595

This shoreline survey, T-8595, is essentially a revision of the shoreline, offshore features, and adjacent interior planimetry of planimetric map T-5630. Refer to the Descriptive Report for Survey T-8594 for a discussion of the 7½ minute topographic quadrangles which will supersede for publication the planimetric maps now existing in the vicinity of survey T-8595.

26. Control.--Sixteen (16) Florida Geodetic Survey bench marks were plotted on the map manuscript

CM 64	DA166, 1936
CM 67	DA167, 1936
CM 68	N-1, 1934
CM 70	N-2, 1934
CM 90	N104, 1936
CM 100	X1A, 1934
CM 108	X1B, 1934
Causeway R.M.2, 1934	X2, 1934

28. Detailing.--The manuscript is a black print of planimetric map T-5630 on cellulose acetate. The compilers corrections and additions were made in red acid ink while those of the reviewer were made in green acid ink. The corrections are in accordance with the field inspection data of September 1945 and the 1:10,000 scale ratioed single-lens photographs, dated 9 March 1945.

In the process of smooth drafting and reproduction, the inshore planimetry not covered by the 1945 field inspection and not revised, will be painted off or eliminated. This new sheet will not be published, but will be printed and filed in the vault.

34. Landmarks and Aids to Navigation.--The position of beacon 33 was moved approximately 20 m.m. to the north-east during the review and is shown with a green acid ink circle on the manuscript. The new position was determined from a list of sextant fixes submitted by the Field Inspection Party on T-8594 and noted in red, by the reviewer, on the Form 567, submitted by the Florida Office for this station, a copy of which is attached for the descriptive report for T-8594.

Check JAR

38. Comparison with recent Topographic Surveys.--All planimetric features on the following surveys, in areas common to Survey T-8595, are superseded by that survey:

* See attached copy of Review Report for T-8433, also,
copy of statement to accompany descriptive report for T-8433.

U.S.C. & G.S.	T-1049	1:20,000	1867
	T-3775	1:20,000	1913
	T-3758	1:20,000	1919
	T-4528	1:20,000	1923
	T-4529	1:20,000	1927
	T-5630	1:10,000	1935
	T-6297 a, b	1:10,000	1934-5

44 Comparison with Nautical Charts

This shoreline survey has not been applied to chart 847, scale 1:40,000. The planimetric features on the chart and map manuscript are in good agreement.

Reviewed by:

Under the direction of:

Michael G. Musulia
Michael G. Musulia
23 April 1946

S.V. Griffith
Chief, Revision Section *K.H.M. 1/7/46*

Approved by:

B.G. Jones 2/49
Tech. Insp. to the Chief,
Division of Photogrammetry

H.R. Edmonston
Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

Division of Photogrammetry

Review Report of

TOPOGRAPHIC MAP MANUSCRIPT T-8433

The review of T-8433 diverged from the normal review procedure as follows:

A. Corrections for overlapping shoreline surveys T-8595, T-8596, and T-8597 were applied during final review.

B. Special methods were used to obtain legible copy for smooth drafting, as described in the attached letter of the Chief, Division of Photogrammetry, dated June 30, 1947.

The legible portion of T-8433 was used and where the map manuscript could not be clarified, all quadrangle data were transferred to the appropriate shoreline manuscript. The drafting section will obtain 1:20,000 scale film positives of T-8595 and T-8596. These used together with the usable portion of T-8433 will form a composite manuscript of the quadrangle.

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

26. Control.--
Horizontal

Attached to this descriptive report is a list of all horizontal control stations shown on the manuscript. Only the most prominent stations have been selected to be shown on the published quadrangle.

Vertical

Over 160 bench marks were recovered by the field party and shown on the map manuscript. Of these, only the most prominent have been selected to be shown on the published quadrangle. They are of the following agencies:

- A. U. S. Coast and Geodetic Survey
- B. Florida Geodetic Survey

34. Landmarks and Aids to Navigation.--In addition to landmarks previously recommended for charting or deletion, TOWER, City of Miami Beach is recommended for deletion. Form 567 is being forwarded to the Division of Charts, and a copy attached to this report.

35. Hydrographic Control.--Because of the mass of detail only the most prominent permanently marked stations were selected to be shown on the published map.

38. Section Corners.--Section corners and lines as delineated by the General Land Office have been shown on the map manuscript.

In the location of the section corners the information furnished by the Florida State Mapping Program has been drawn upon freely, except where they extended the General Land Office Surveys. Extended surveys were disregarded and only those portions shown on the General Land Office Plats were accepted.

44. Comparison with Existing Topographic Surveys: Manuscript T-8433 has been compared with the following topographic Surveys and supersedes them in all common detail.

3759	1:10,000	1919
4229	1:20,000	1927
5629	1:10,000	1935
6275	1:10,000	1935
6297a	1:10,000	1934-5

45. Comparison with Nautical Charts.--

547	1:10,000	1942	Revised July 1946
847	1:40,000	1943	Revised July 1946
1248	1:80,000	1937	Reissued Sept. 1947

These nautical charts have been compared with the map manuscript. Changes have been partially applied to chart No. 847, and it is felt that the following additional change is of sufficient importance to warrant immediate application to the charts.

A. Delete Miami Yacht Basin and add Fill, just north of Brickell Point.

This compilation is adequate and complete. It meets all National Map Accuracy Requirements.

Reviewed by:

Reviewed under direction of:

Harland R. Gravatt
Cartographer (Photogrammetrist)

S. V. Griffith
Chief, Review Section

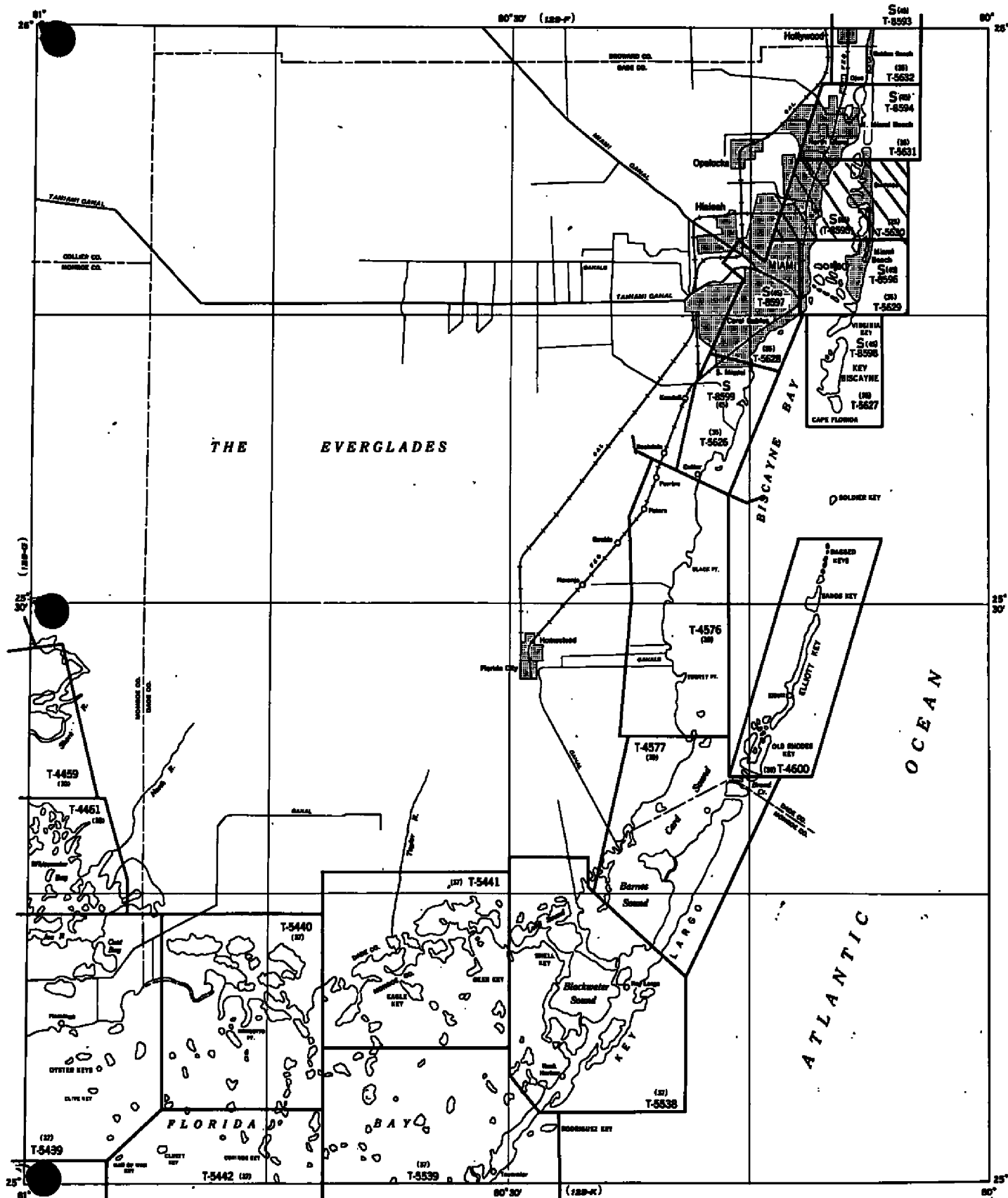
APPROVED:

Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Division of Coastal
Surveys



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

T-5631 Maps published

T-4594 Shoreline survey only, not to be published.
Photographic copies are available

Price 75c each