TP-00981

TP-00981

NOAA FORM 76-35
(3-76)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No. TP-00981	*Edition No.* 1
Job No. CM-7715	
Map Classification Final Field Edited	
Type of Survey Shoreline	

LOCALITY

State Florida
General Locality Tampa Bay
Locality Apollo Beach

19 77 TO 19 78

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-00981

MAP EDITION NO. (1)

MAP CLASS Final Field edited

JOB PH-CM-7715

PHOTOGRAMMETRIC OFFICE: Rockville, Md.

OFFICER-IN-CHARGE: Cmdr. James Collins

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH-_____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
General Instructions-Office-NOS Cooperative Coastal Boundary Mapping-Job PH-7000 9 December 1975 Office 18 August 1977 Amendment I 3 January 1978 Amendment II 7 March 1978	Field Instructions 27 December 1976 Field Instructions 11 August 1977 Amendment-Field Edit Procedures 30 January 1978

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Lambert Conformal Conic

4. GRID(S)

STATE	ZONE
Florida	West

5. SCALE: 1:10,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	S. Solbeck	April 1978
METHOD: Analytic	LANDMARKS AND AIDS BY	N/A	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	J. Taylor	June 1978
METHOD: Coradomat	CHECKED BY	N/A	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	N/A	
	CHECKED BY		
INSTRUMENT:	CONTOURS BY	N/A	
SCALE:	CHECKED BY		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	E. Allen	Sept 1978
	CHECKED BY	C. Lewis	Oct 1978
METHOD: Graphic	CONTOURS BY	N/A	
	CHECKED BY		
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	N/A	
	CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	C. Lewis	Oct 1978
6. APPLICATION OF FIELD EDIT DATA	BY	J. Battley	Jan 1979
	CHECKED BY	J. Schad	Feb 1979
7. COMPILATION SECTION REVIEW	BY	F, Wright	Feb 1979
8. FINAL REVIEW	BY	P. Dempsey	Mar 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	Dempsey	Mar 1984
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. DAUGHERTY	Nov 1984

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 161 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-00981

1. COMPILATION PHOTOGRAPHY

CAMERA(S): RC-8-E, RC-10-B & K

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☐ REFERENCE STATION RECORDS
- ☒ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- Rx) INFRARED

TIME REFERENCE
- ZONE: Eastern — ☒ STANDARD
- MERIDIAN: 75th — ☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
77E(C) 4186-4187	10/13/77	1053	1:30,000	The stage of tide is inapplicable for color photography
77E(C) 4217	10/13/77	1123	1:30,000	
77E(C) 4439	10/14/77	0935	1:30,000	
77E(C) 4442	10/14/77	0936	1:30,000	
77E(C) 4452-4455	10/14/77	1011	1:30,000	
77K(R) 0987-0988	10/14/77	1452	1:30,000	Refer to 76-36B(1) for tide information
77K(R) 1006-1008	10/14/77	1508	1:30,000	
77B(R) 0213-0216	11/8/77	1110	1:30,000	

REMARKS
The rectified photography is B&W from the color photographs listed above.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the MHW line is the tide-coordinated infrared photography listed in item 1. Where the MHW line was obscured by vegetation, such as mangrove, the apparent shoreline was delineated.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

GCLW tide-coordinated infrared photography was not available within accuracy standards.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
Inapplicable					

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00978	N/A	TP-00983	TP-00980

REMARKS
Final junctions will be made in the Coastal Mapping Section.

NOAA FORM 76-36B(1)
(7-75)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - COORDINATED PHOTOGRAPHY

TP - 00981

LOCATION AND PHOTOGRAPHY	TIDE STATIONS *(In operation at time of photography)*	STAGE OF TIDE	MEAN RANGE
77-B-0213 - 0216R	Apollo Beach (STA 6537)	+ 0.22 MHW *	
77-K-0987 - 0988R	" "	- 0.21 "	
77-K-1006 - 1008R	" "	- 0.04 "	

REMARKS:

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS TP-00981

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION Under ltr. dtd 1/30/78 fr. Chief, Coastal Mapping

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.R. Wagner	
2. HORIZONTAL CONTROL	RECOVERED BY		
	ESTABLISHED BY		
	PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL	RECOVERED BY		
	ESTABLISHED BY		
	PRE-MARKED OR IDENTIFIED BY		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (*Triangulation Stations*) BY		
	LOCATED (*Field Methods*) BY		
	IDENTIFIED BY	P. Dempsey	12/78
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☒ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY	R.R. Wagner	12/78
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	P. Dempsey	12/78
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	n.a.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)
77E4187, 4439, 4453, 4454

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME
77E4187	Big Bend Sheet Pile Obs. Lt.

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS
USGS Quadrangle Gibsonton, Fla. (Geographic name)

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*)

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

TP-00981

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Class III	10/10/78			
Final	1/3/79			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3 pages		6/26/79	Digitized forms (76-40) submitted

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. [X] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6


JOB CM-7715
TAMPA BAY, FLORIDA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000
REV. 7-20-78
TP-00970
TP-00971
TP-00972
TP-00973
TP-00974
TP-00975
TP-00976
TP-00977
TP-00978
TP-00979
TP-00980
TP-00981
TP-00982
TP-00983
TP-00984
Joins Job CM-7612
Joins Job CM-7717
28°03'00"
27°58'00"
27°53'00"
27°48'00"
27°43'00"
27°38'00"
27°33'00"
82°43'00"
82°39'00"
82°38'00"
82°33'30"
82°32'30"
82°28'00"
82°44'30"
82°23'00"
82°40'00"
82°35'00"
82°25'00"
Crystal Beach
Palm Harbor
Ozona
Dunedin
Oldsmar
Safety Harbor
CLEARWATER
Courtney Campbell Causeway
LARGO
Belleair
High Point
St Petersburg Clearwater International
Howard Franklin Bridge
Big Island
Seminole
PINELLAS PARK
Lealman
Madeira Beach
Sunshine Beach
Treasure Island
Sunset Beach
St Petersburg Beach
ST PETERSBURG
TAMPA BAY
CGAS St Petersburg
Lewis Island
Weedon Island
Ross Island
Interbay Peninsula
MAC DILL
Sunken Island
Gibsonton
Davis Islands
Power Plant
Ruskin
North Ruskin
Pass-a-Grille Beach
Point Pinellas
PINELLAS NWR
Big Pass Key
Camp Key
Sun City
Mullet Key
Madelaine Key
Egmont Key
PASSAGE KEY NATIONAL WILDLIFE REFUGE
Anna Maria
Anna Maria Key
HILLSBOROUGH CO
MANATEE CO
PINELLAS CO
HILLSBOROUGH CO
SEABOARD COAST LINE
Skyway
Joe Island
Rattlesnake Key
Ellenton
Palmetto
Substation

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

Coastal Zone Map TP-00981 is one of fourteen 1:10,000 scale and one 1:20,000 scale shoreline maps in Project CM-7715. These maps are intended for planning purposes for the state of Florida and for the construction and maintenance of NOS Nautical Charts.

The layout for CM-7715 will show the location of the individual maps from Rattlesnake Key to Oldsmar, Florida. A copy of the layout is included in this Descriptive Report.

Field operations consisted of premarking horizontal control and photographing the area, establishing tidal datums and performing the field edit.

Color compilation photography was taken with the RC-8-E camera at 1:30,000 scale in October, 1977 and used in clarifying detail and compiling landmarks and aids to navigation. The shoreline was compiled using 1:30,000 scale infrared MHW photography taken with the RC-10-B & K cameras in November, 1977.

The Aerotriangulation Unit in Rockville, Maryland bridged five strips of 1:60,000 scale black and white photography using analytic aerotriangulation methods.

Compilation was completed in the Coastal Mapping Unit, Rockville, Maryland, using graphic methods.

Field edit was completed in December. 1978. Recovery and location of landmarks, fixed aids to navigation, piling, etc., were omitted from the field edit procedures as per memo dated January 30, 1978, from chief, Coastal Mapping Branch. These items were compiled, to the extent possible, by office photogrammetric methods. The editor was required to only visually verify their existence at the time of edit. Their locations were not field checked. Field edit requirements in the foreshore and adjacent areas remain unchanged.

Application of field edit was performed in the Coastal Mapping Unit, Rockville, Maryland.

Final Review was performed in the Quality Control Unit, Rockville, Maryland, in March, 1984. This map meets the requirements for National Standards of Map Accuracy.

The context of this Descriptive Report contains all pertinent reports and listings of data used to compile this final map.

FIELD REPORT FOR CM-7715 & CM-7717

1. GENERAL

This report covers pre-marking, photo identification of control points, high and low water photographs. The project instructions were changed by Chief, Planning Branch in the range of tide for tidal photographs due to weather conditions.

Due to the size of pre-mark targets and the congestion of the area and targets being destroyed it was necessary to photo identify control points. This part of the field work was delayed due to receiving of the necessary photographs.

There were a number of tide gages in operation at the time of photography that could be used to supplement tidal data.

2. HORIZONTAL CONTROL

The following control stations were pre-marked or identified.

Control Point No. 1 DUNEDIN MUN N TANK 1972, Sub-point marked with array No. 1 with one wing. The data for this station was submitted with CM-7612 target No. 8. This station was not marked again because the grass on the golf course is still dead from when it was paneled a year ago. This panel should be transferred from CM-7612 photos.

Control Point No. 2 BOOTH 1926, Marked direct with array No. 1 and two wings.

Control Point No. 3 CYPRESS 2 1960 1975, Sub-point marked with array No. 1 and no wings. No room for wings.

Control Point No. 4 PETER 1946, Station marked direct with array No. 1 and no wings.

Control Point No. 5 TAMPA PENINSULAR TELEPHONE CO. MOBILE MAST 1955, Station marked direct on old base for tower without wings at request of owner.

Control Point No. 6 COL 1957. No target used. Station is a good point in center of bay in sea wall.

Control Point No. 7 PORT TAMPA, BLACK MUN TANK 1945, Station marked with array No. 1 on remains of standpipe. The tank has been removed. The four tank footings should be used as wings.

Control Point No. 8 GADSDEN 2 1908, Station marked direct with two wings.

Control Point No. 9 Y6 (FGS) 1934, Station marked direct with two wings.

Control Point No. 10 GANDY 1973, Station marked direct with one wing.

Control Point No. 11 BRIGHTWATER B 1973, Sub-point is center of approx. 12X12 foot dock. No target used, see photo 77C7488.

Control Point No. 12 FEDERAL 1973, Station marked direct on top of building. No wings used.

Control Point No. 13 TAMP 1954, Sub-point marked with array No. 1 and one wing.

Control Point No. 14 DESOTO 1973, Sub-point with no target used.

Control Point No. 15 STUMP 1957, Sub-point. Panel destroyed and not replaced. Rockville office stated not needed because other target appears on this line.

Control Point No. 16 SUN CITY POWER CO SILVER WATER TANK 1934, Marked direct in center of four footings with array No. 1 without wings. Tank has been removed.

Control Point No. 17 GILLETTE 1934, Sub-point is the center of three concrete slabs in cemetery. No target used.

Control Point No. 18 MCNIEL 2 1958, Sub-point panel was marked with array No. 1 without wings. This panel was not in place at time of photography. Other sub-points A & B were identified on photo 77C7504.

Control Point No. 19 PALM 3 1924, Sub-point marked with array No. 1 without wings. Wings were not used at request of owner.

Control Point No. 20 MANATEE SILVER MUN WATER TANK 1925 (Cor of 10th St. and 9th Ave), Sub-point marked with array No. 1 and no wings.

Control Point No. 21 CONNER 1954, Station marked direct with array No. 1 without wings. No room for wings.

Control Point No. 22 SCHROEDER 1934, Station marked direct with array No. 1 and two wings.

Control Point No. 23 AMBER TR 27 (USE) 1953, Sub-point marked with array No. 1 and two wings.

Control Point No. 24 WHITFIELD ESTATES TANK 1934, Marked direct with array No. 1 and no wings. Tank is destroyed and target placed in center of tank footings.

Control Point No. 25 SARASOTA, RADIO STATION WSPR MAST 1953, Concrete base identified direct on 77C7516. The mast has been removed and a new mast was built west of old base in the last part of 1970.

Control Point No. 26 NORTHWEST 1878, Two sub-points were identified on photo 77C7518

Control Point No. 27 TT 41 JA 1952, Two sub-points were identified on photo 77C7523

3. PHOTOGRAPHS

Bridging - All bridging photography was flown on October 5, 1977.

Low Water - Flown on October 13 and 14, 1977

High Water - Flown on October 14 and November 8, 1977

4. TIDAL DATA

Leveling for tide station 872 6621, Port Tampa was done by this party and is submitted in one NOAA Form 76-77 for prior and after photography. All other tide stations used were leveled by Photo Party 65 when gages were removed. This data is in Tides Branch, Rockville, Maryland.

The following twelve tidal stations were used:
872-6520 (St Petersburg) in two volumes, 872-5943 (Blackburn Point) and 872-5889 (Venice, Roberts Bay) in one volume, 872-6621 (Port Tampa), 872-6247 (Bradenton), 872-6348 (Two Brothers Island), 872-6243 (Anna Maria), 872-6278 (Redfish Point), 872-6537 (Apollo Beach), 872-6159 (Whitfield Estates), 872-6738 (Safety Harbor) and 972-6639 (Ballast Point.)

Submitted 1/31/78

Robert R. Wagner
Chief, Photo Party 66

PHOTOGRAMMETRIC PLOT REPORT
CM-7715
Tampa Bay, Florida
April 1978

21. Area Covered

The area covered by this report is the immediate shoreline surrounding Tampa Bay, Florida.

Fourteen 1:10,000 scale manuscripts (TP-00970 thru TP-00982 and TP-00984) and one 1:20,000 scale manuscript (TP-00983) are submitted.

22. Method

Five strips of 1:60,000 scale black-and-white photography were bridged by analytic aerotriangulation methods. Control was field identified. Office identified control was used as a check.

Tie points were used to insure adequate juctioning during the strip adjustments. Tie points were also used to ensure adequate juctioning between project CM-7612 and this project. These latter tie points provided the initial control for strip 77-C 7393 to 7401.

Common points were located on the bridging photography and the tide-coordinated infrared being used for ratio purposes. Additional common points were located between the bridging photogrphy and the 1:30,000 scale color photography for compilation purposes. These latter points were located by the compilation section.

The manuscripts will be plotted by the compilation section.

23. Adequacy of Control

The majority of control proved adequate according to National Map Accuracy standards.

The position for Tampa Peninsular Telephone Company Mobile Mast, 1955 (401 100) would not fit into the adjustment by 310 feet in X and 998 feet in Y. The panel was apparently not located correctly by the field party. The correct image was located and measured accurately. The paneled location was measured on two separate strips and used to tie the strips together.

24. Supplemental Data

USGS quads were used to provide vertical control for the strip adjustments. Nautical charts 11413 and 11414 were used to locate aids and landmarks.

25. Photography

The coverage, overlap, and quality of the photography were adequate for the job.

26. Comments on Strip Adjustment

Prelimary strip adjustments of strips 2 and 4 indicate that discrepencies exist that are not normally expected. In strip 2 three points were used to form the second degree adjustment curve, and two control points were "floated" - to be used as check points. One fit within 2 feet and the other was off about 10 feet. These same two points were also "floated" in strip 3, both fit within less than 3 feet.

A similar phenomenon exists on strip 4 where again three points are used for the adjustment and a seemingly good check point is off about 12 feet.

The cause of this "lack of fit" can not be satisfactorily explained, however, the descrepencies in the vicinity of these control points can be reduced by using them in the adjustment. By doing this, they fit to within 6 feet.

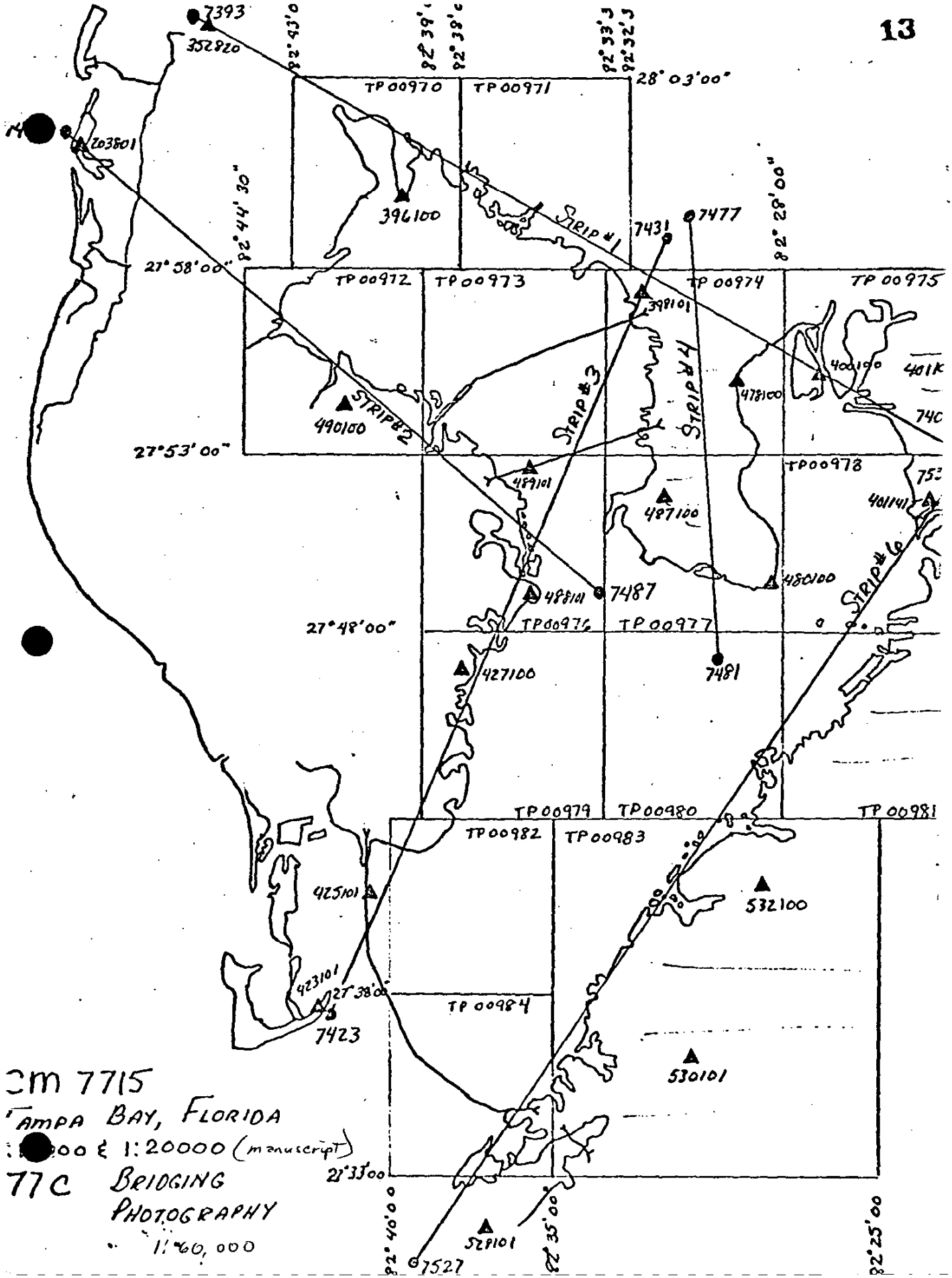
Submitted by,

Steve Solbeck

Approved and forwarded:

Don O. Norman

Acting Chief, Aerotriangulation Section



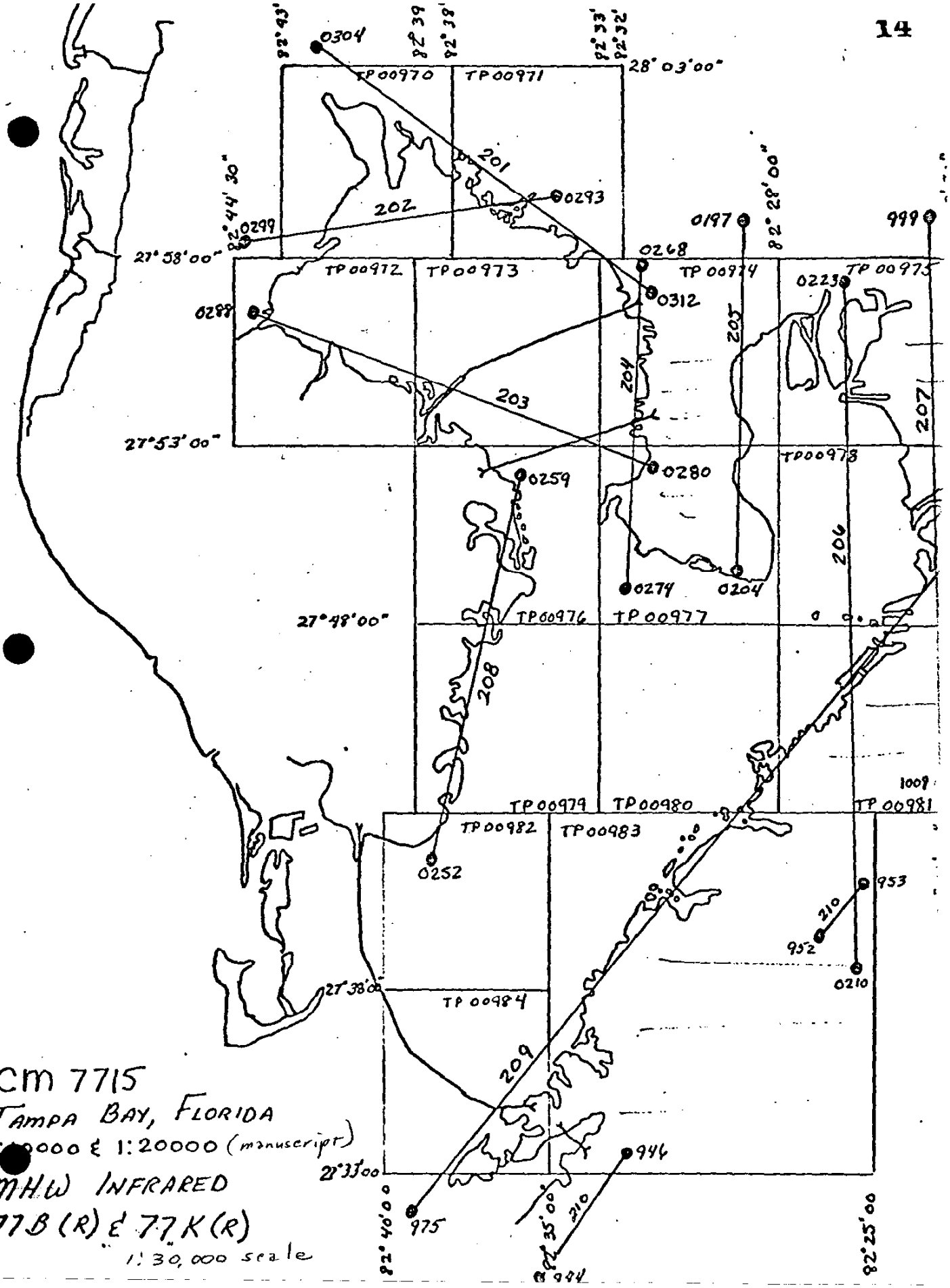
cm 7715

TAMPA BAY, FLORIDA

[illegible]00 & 1:20000 (manuscript)

77C BRIDGING PHOTOGRAPHY

1:60,000



CM 7715

TAMPA BAY, FLORIDA

1:10000 & 1:20000 (manuscript)

MHW INFRARED

77B(R) & 77K(R)

1:30,000 scale

TAMPA BAY, FLORIDA CM-7715

Accruacy of Control

		X	Y
STRIP #1	258830	- .075	+ .558
	352820	+ .407	- .915
	396100	+ .728	+ .686
	398101	+ .318	+ .045
	400100	+ .064	- .938
	401141	+ .020	+ .559
STRIP #2	487100	-1.574	+ 2.163
	488101	- .563	- 5.231
	489101	-1.510	+ 2.273
	490100	+4.496	+ .554
	203801	- .851	+ .243
	262830	+ .222	+ 1.876
STRIP #3	423101	+1.262	+ 1.806
	425101	-1.726	- 2.149
	427100	-1.276	- 1.487
	488101	+1.998	- .753
	487100	+2.260	+ 1.868
	489101	+2.764	- 2.448
	478100	-3.540	+ 2.008
	398101	+3.021	- 2.046
STRIP #4	398101	-1.366	- 3.579
	400100	+5.121	- 1.143
	478100	-3.185	+ 3.309
	487100	-2.260	+ 1.533
	480100	+1.085	+ .731
	478801	+ .605	- .851
STRIP #6	528101	-4.052	+ 1.220
	528102	-4.149	- .277
	530101	-1.116	- 2.404
	532100	-1.592	+ 4.189
	480100	+4.226	- 2.684
	401141	+4.864	- 2.402
	401100	- .248	+ .134
	401111	-1.335	+ 1.275

31. Delineation

All features were delineated by graphic methods utilizing black-and-white rectified prints of the 1:30,000 scale color photography.

The MHW and apparent shoreline was delineated from tide-coordinated B&W infrared photography that was controlled by common detail compiled from the rectified photographs and selected pass points common to the bridging photography.

32. Horizontal Control

Control was adequate to meet National Map Accuracy Standards. (See Photogrammetric Plot Report for details)

33. Supplemental Data

Field sketches indicating the location of applicable tide stations were supplied by Tides and Water Level Section.

34. Contours and Drainage

Contours are not applicable. Drainage was compiled by office interpretation of the infrared photography.

35. Shoreline and Alongshore Detail

Office interpretation of the MHW infrared photography and the rectified prints of the color photography was adequate for delineating the shoreline and alongshore features.

No Gulf Coast Low Water was shown as the vertical accuracy of the photography was not within accuracy set forth in the instructions.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

The landmarks and aids shown on this map were those located by photogrammetric methods or having a triangulation position. All aids and landmarks will be visually verified during field edit.

38. Control for Future Surveys None

39. Junctions

Refer to Form 76-36B

40. Horizontal and Vertical Accuracy

This map complies with the accuracy requirements for the Florida Coastal Zone Mapping Program as outline in job instruction PH-7000.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following 7.5 minute USGS topographic quadrangle:

Gibsonton, Florida - Scale 1:24,000
Rustin, Florida - Scale 1:24,000

47. Comparison with Nautical Charts

Comparison was made with charts:

11413 (587) Tampa Bay, Northern Part 1:40,000
11426 (1257) Tampa Bay and St. Josephs Sound 1:80,000

Items to be applied to Nautical Charts immediately: None

Items to be carried forward: None

Submitted by,

Edward D. Allen

Approved and Forwarded:

Frank A. Wright (for)
J.P. Battley, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT TP-00981, Job CM-7715

51. METHODS

Field edit was performed under instructions dated 1/30/1978 from Chief, Coastal Mapping Division, Rockville, Maryland.

The shoreline was inspected from a small boat while cruising just off shore and by truck.

Field edit notes will be found on the photographs and discrepancy print.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit.

53. MAP ACCURACY

No test required.

54. RECOMMENDATION

None

55. EXAMINATION OF PROOF COPY

Not required.

56. GEOGRAPHIC NAME

See USGS Quadrangle Gibsonton, Fla. for position of Apollo Beach.

Submitted: 12/12/1978

Robert R. Wagner
Chief, Photo Party 166

REVIEW REPORT
TP-00981
March 1984

61. General Statement

Refer to the summary bound with this Descriptive Report.

62. Comparison With Registered Topographic Surveys - None

63. Comparison With Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison With Contemporary Hydrographic Surveys - None

65. Comparison With Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by,

Patrick J. Dempsey
Cartographer

Approved and Forwarded,

George M. Ball
Chief, Photogrammetric Section

Ronald K. Brewer
Chief, Photogrammetry Branch

October 12, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7715 (Tampa Bay, Florida)

TP-00981

Apollo Beach (locality)

Big Bend

Double Bayou Pass

Jackson Branch

Marsh Branch

Newman Branch

North Ruskin

Ruskin

Ruskin Inlet

Tampa Bay

Wolf Branch

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer - C3x5

DISSEMINATION OF PROJECT MATERIAL
CM-7715

National Archives/Federal Records Center

Red Jacket:

- Field Notebooks - NOAA Forms 77-53
  NOAA Form 76-77
- Bridging photographs
- Tidal bench mark descriptions
- Sketches and computations
- Field edit discrepancy print
- Field photographs
- CSI cards

Bureau Archives

- Registered copy of each map
- Descriptive Report of each map

Reproduction Division

- 8x Reduction negative of each map

Office of Staff Geographer

- Geographic Names Standard

SVY TP00981	RPT UNIT CMD, ROCKVILLE, MD.	PAGE 1 OF 3	
JOB CM7715	STATE FLORIDA		
PRJ 833205	LOCALITY APOLLO BEACH	ORIGINATING ACTIVITY	
DTM NA1927	DATE 01/03/79	COMPILATION	

OBJECTS INSPECTED FROM SEAWARD	ROBERT R. WAGNER	PHOTO FIELD PARTY
POSITIONS DETERMINED	ROBERT R. WAGNER	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	PATRICK J. DEMPSEY	OFFICE COMPILER
FIELD AND OFFICE	ALFRED BETHEA	DIGITIZER
ACTIVITIES	JAMES H. TAYLOR	DATA PROCESSER

KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION

OFFICE

1. OFFICE IDENTIFIED AND LOCATED OBJECTS, THE NUMBER AND DATE (INCLUDING MONTH, DAY AND YEAR) OF THE PHOTOGRAPH USED TO IDENTIFY AND LOCATE THE OBJECT ARE SHOWN.
   EXAMPLE 75E(C)6042
   8-12-77

FIELD

1. NEW POSITION DETERMINED OR VERIFIED
   KEY TO SYMBOLS

F-FIELD	P-PHOTOGRAMMETRIC
L-LOCATED	VIS-VISUALLY
V-VERIFIED	
1-TRIANGULATION	5-FIELD IDENTIFIED
2-TRAVERSE	6-THEODOLITE
3-INTERSECTION	7-PLANETABLE
4-RESECTION	8-SEXTANT

   A. FIELD POSITIONS* SHOW THE METHOD OF LOCATION AND DATE OF FIELD WORK.
   EXAMPLE F-2-6-L
   8-12-76

*FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVATIONS BASED ENTIRELY UPON GROUND SURVEY METHODS

FIELD(CONT,D)

B. PHOTOGRAMMETRIC FIELD POSITIONS** SHOW THE METHOD OF LOCATION OR VERIFICATION, DATE OF FIELD WORK AND NUMBER OF PHOTOGRAPH USED TO LOCATE AND IDENTIFY THE OBJECT.
EXAMPLE P-8-V
8-12-77
74L(C)2982

2. TRIANGULATION STATION RECOVERED
   WHEN A LANDMARK OR AID WHICH IS ALSO A TRIANGULATION STATION IS RECOVERED, A TRIANG. REC. WITH DATE OF RECOVERY IS SHOWN.
   EXAMPLE TRIANG. REC.
   8-12-76

3. POSITION VERIFIED VISUALLY ON PHOTOGRAPH SHOWN BY V-VIS AND DATE.
   EXAMPLE V-VIS
   8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS ARE DEPENDENT ENTIRELY, OR IN PART, UPON CONTROL ESTABLISHED BY PHOTOGRAMMETRIC METHODS.

NOTE: WHERE THE NAME OF AN AID INCLUDES THE IMMEDIATE GEOGRAPHIC HEADING UNDER WHICH IT IS LISTED, A DASH (-) IS USED TO INDICATE THE GEOGRAPHIC HEADING WHICH IS PART OF THE OFFICIAL NAME.

76-40 LISTING | PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION | NATIONAL OCEAN SURVEY NOAA DEPARTMENT OF COMMERCE USA | DATATAB VERSION 782707

SVY TP00981		RPT UNIT CMD, ROCKVILLE, MD.	PAGE 2 OF 3
JOB CM7715	NONFLOATING AIDS FOR CHARTS	STATE FLORIDA	
PRJ 833205	TO BE CHARTED	LOCALITY APOLLO BEACH	ORIGINATING ACTIVITY
DTM NA1927		DATE 01/03/79	COMPILATION

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
	ONLY THOSE NONFLOATING AIDS AND LANDMARKS TO NAVIGATION THAT WERE VISIBLE ON THE PHOTOGRAPHY AND LOCATED DURING BRIDGING OR COMPILATION ARE SHOWN ON THIS MAP.						
	TAMPA BAY						
	HILLSBOROUGH BAY						
	BIG BEND CHANNEL	27 47 36.45	1122.0		77E4452		
LIGHT	BIG BEND GROIN OBSTRUCTION LT.	82 24 55.48	1518.8		10/14/77		11413
	BIG BEND CHANNEL	27 47 33.98	1045.9			P-5	
LIGHT	BIG BEND SHEET PILE OBST LIGHT	82 24 54.04	1479.4			12/08/78	11413
					77E4187		
-RGE R	HILLSBOROUGH CUT C CHANNEL	27 47 39.92	1228.8		77E4452		
LIGHT	SOUTH RANGE REAR LIGHT	82 27 00.63	17.2		10/14/77		11413

76-40 LISTING | PHOTOGRAMMETRIC BRANCH COASTAL MAPPING DIVISION | NATIONAL OCEAN SURVEY NOAA DEPARTMENT OF COMMERCE USA | DATATAB VERSION 782707

SVY TP00981	LANDMARKS FOR CHARTS TO BE CHARTED	RPT UNIT CMD, ROCKVILLE, MD.	PAGE 3 OF 3
JOB CM7715		STATE FLORIDA	
PRJ 833205		LOCALITY APOLLO BEACH	ORIGINATING ACTIVITY
DTM NA1927		DATE 01/03/79	COMPILATION

THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
STACK	WEST OF 2	27 47 39.77 82 24 14.72	1224.2 403.0	77E4187 10/13/77	V-VIS 12/08/78		11413
STACK	EAST OF 2	27 47 39.74 82 24 11.27	1223.2 308.5	77E4187 10/13/77	V-VIS 12/08/78		11413

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ______________________

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. *Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review*

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-976.

USCOMM-DC 8558-PC