

TP-00015

TP-00015

| | |
|---|--------------------|
| NOAA FORM 76-35 | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| DESCRIPTIVE REPORT | |
| Type of Survey Shoreline | |
| Job No. PH-6912 | Map No. TP-00015 |
| Classification No. | Edition No. 1 |
| Field Edited Map | |
| LOCALITY | |
| State Florida | |
| General Locality Estero Bay | |
| Locality Mound Key | |
| <hr/> 1969 TO 1970 <hr/> | |
| REGISTRY IN ARCHIVES | |
| DATE | |

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

| | | | |
|--|--|---|--|
| NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | SURVEY TP. <u>00015</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>FINAL(F.E.)</u> JOB PH. <u>6912</u> |
| DESCRIPTIVE REPORT - DATA RECORD | | LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Norfolk) | | JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ | |
| OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR | | | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| June 13, 1969 June 24, 1969 Aug. 8, 1969 Sept. 8, 1969 Oct. 21, 1969 | | April 28, 1969 March 11, 1970 | |
| II. DATUMS | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | OTHER (Specify) | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Polyconic | | 4. GRID(S) | |
| | | STATE Florida | ZONE West |
| 5. SCALE 1:10,000 | | STATE | ZONE |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION BY Robert Kelly | | | 8/69 |
| METHOD: Analytic LANDMARKS AND AIDS BY | | | |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY | | | |
| METHOD: Coradomat CHECKED BY | | | |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY L.O. Neterer | | | 1/70 |
| COMPILATION CHECKED BY C. Bishop | | | 1/70 |
| INSTRUMENT: Wild B-8 | | CONTOURS BY NA | |
| SCALE: 1:20,000 | | CHECKED BY NA | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY C. Bishop | | | 1/70 |
| | | CHECKED BY R. Smith | 2/70 |
| METHOD: Smooth Ink Drafting | | CONTOURS BY NA | |
| | | CHECKED BY NA | |
| SCALE: 1:10,000 | | HYDRO SUPPORT DATA BY NA | |
| | | CHECKED BY NA | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY R. Smith | | | 2/70 |
| 6. APPLICATION OF FIELD EDIT DATA BY A. Shands; J. Desch | | | 10/71; 6/75 |
| | | CHECKED BY | |
| 7. COMPILATION SECTION REVIEW BY R. Smith | | | 2/70 |
| 8. FINAL REVIEW BY Billy H. Barnes | | | 7/1975 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY <i>N. Francis</i> | | | 9/24/75 |

TP-00015
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|--|---------|---|----------|---|--|
| CAMERA(S) Wild RC-8 "L" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE St. Petersburg, Fl. | | X (C) COLOR (P) PANCHROMATIC X (I) INFRARED | | ZONE Eastern | |
| <input checked="" type="checkbox"/> PREDICTED TIDES (Carlos Point) <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| | | | | MERIDIAN 75th | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 69L(c) 9364 - 9369 | 6/1/69 | 08:31 | 1:20,000 | 2.7 ft. above MLW | |
| 69L(c) 9342 - 9346 | 6/1/69 | 08:21 | 1:20,000 | 2.7 ft. above MLW | |
| 69L(c) 9245 | 5/31/69 | 15:20 | 1:20,000 | 1.3 ft. above MLW | |
| 69L(c) 9498 - 9500 | 6/4/69 | 08:00 | 1:40,000 | 1.8 ft. above MLW | |
| 69L(I) 9322R - 9327R | 6/1/69 | 08:05 | 1:20,000 | 2.5 ft. above MLW | |
| 69L(I) 9299R - 9304R | 6/1/69 | 07:56 | 1:20,000 | 2.5 ft. above MLW | |

REMARKS All photo time has been converted from Eastern Daylight Time to Eastern Standard Time.

2. SOURCE OF MEAN HIGH-WATER LINE:
Photographs dated June 4, 1969 and field edit photos taken May 31, 1969.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:
None compiled.

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 |
| | | | | | |

5. FINAL JUNCTIONS

| | | | |
|-------------------|---------------|-------------------|------------------|
| NORTH TP-00010 | EAST Inset | SOUTH TP-00016 | WEST TP-00014 |
| REMARKS | | | |

3.2

TP-00015
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|----------------------------|
| 1. CHIEF OF FIELD PARTY | W.H. Shearouse | May 1969 |
| 2. HORIZONTAL CONTROL | RECOVERED BY ESTABLISHED BY | W.H. Shearouse May 1969 |
| | PRE-MARKED OR IDENTIFIED BY | NA |
| | | W.H. Shearouse May 1969 |
| 3. VERTICAL CONTROL | RECOVERED BY | NA |
| | ESTABLISHED BY | NA |
| | PRE-MARKED OR IDENTIFIED BY | NA |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (<i>Triangulation Stations</i>) BY | NA |
| | LOCATED (<i>Field Methods</i>) BY | NA |
| | IDENTIFIED BY | NA |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION | |
| | <input type="checkbox"/> COMPLETE BY | |
| | <input type="checkbox"/> SPECIFIC NAMES ONLY | |
| | <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | NA |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | NA |

II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED | | 2. VERTICAL CONTROL IDENTIFIED | |
|----------------------------------|-------------------------|--------------------------------|---------------------|
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| 69L(c) 9483 | MOUND KEY 2, 1928, 1961 | | |
| 69L(c) 9499 | ESTERO NORTH BASE, 1934 | | |

3. PHOTO NUMBERS (*Clarification of details*)

NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 - C&GS Forms 152 Control Station Identification Cards

TP-00015
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|-----------------------|
| 1. CHIEF OF FIELD PARTY | Joseph K. Wilson | 8/1970 |
| 2. HORIZONTAL CONTROL | RECOVERED BY | Richard E. Kesselring |
| | ESTABLISHED BY | NA |
| | PRE-MARKED OR IDENTIFIED BY | NA |
| 3. VERTICAL CONTROL | RECOVERED BY | NA |
| | ESTABLISHED BY | NA |
| | PRE-MARKED OR IDENTIFIED BY | NA |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (<i>Triangulation Stations</i>) BY | NA |
| | LOCATED (<i>Field Methods</i>) BY | NA |
| | IDENTIFIED BY | NA |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION | |
| | <input type="checkbox"/> COMPLETE BY | |
| | <input type="checkbox"/> SPECIFIC NAMES ONLY BY | |
| | <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | NA |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | NA |

II. SOURCE DATA

| | | | |
|----------------------------------|--------------|--------------------------------|---------------------|
| 1. HORIZONTAL CONTROL IDENTIFIED | | 2. VERTICAL CONTROL IDENTIFIED | |
| NA | | NA | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |

3. PHOTO NUMBERS (*Clarification of details*)
NA

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
Film ozalid containing positions of private channel markers and piling.

8. OTHER FIELD RECORDS (*Sketch books, etc. DO NOT list data submitted to the Geodesy Division*)
Sketch of pier
Form 152 Field edit report.

TP-00015
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|--|------------|------------------------------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation complete pending field edit | Feb. 1970 | Class III Manuscript Superseded | Feb. 1970 | Feb. 1970 |
| Field edit applied compilation complete | Oct. 1971 | Class I Manuscript Superseded | | |
| Final Review | July, 1975 | | Sept. 1975 | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

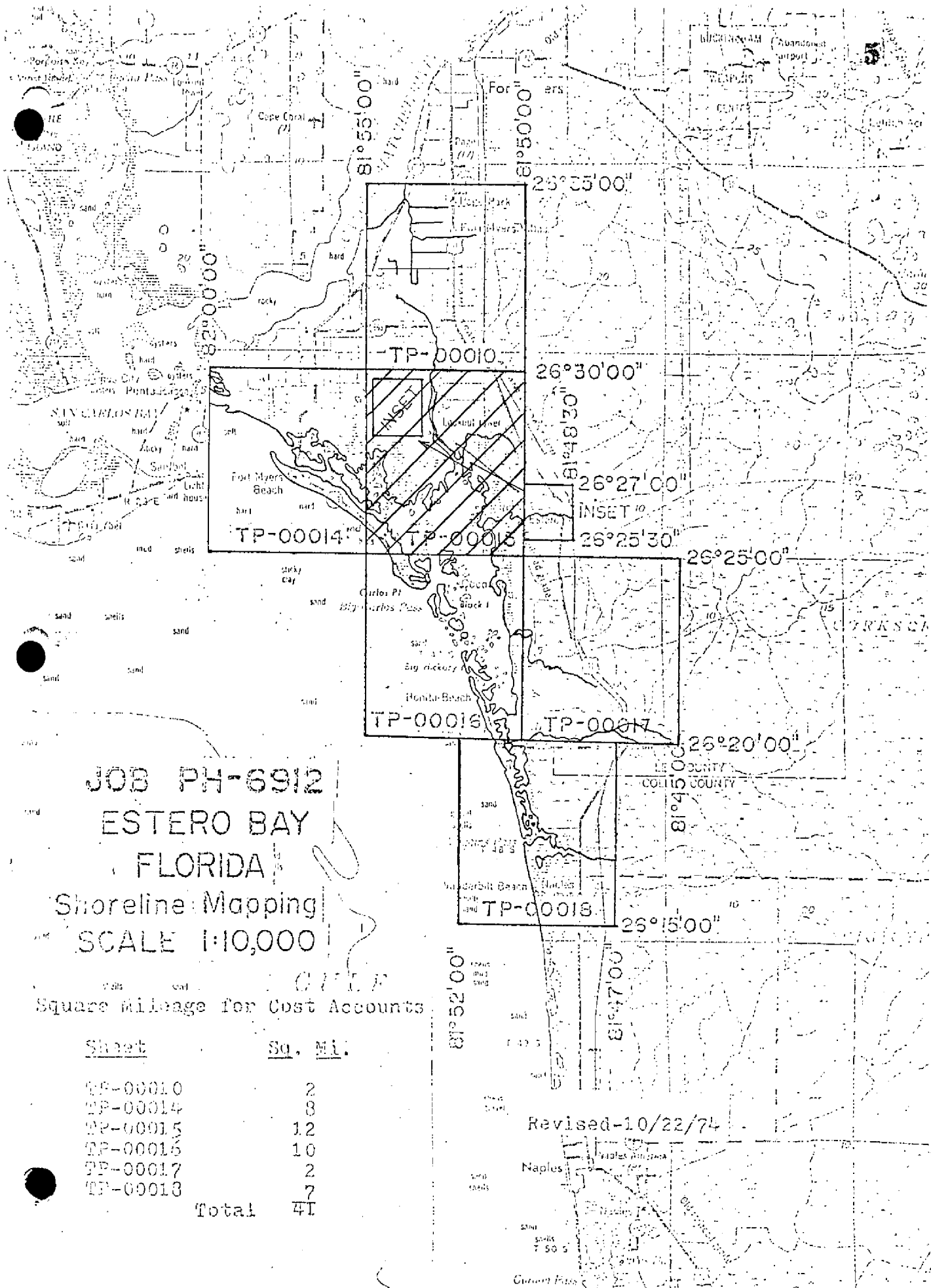
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

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

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

| | | | |
|-------------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |



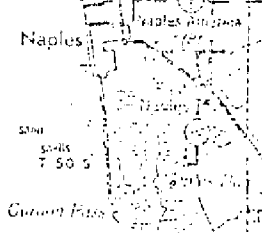
**JOB PH-6912
ESTERO BAY
FLORIDA**

Shoreline Mapping
SCALE 1:10,000

Square Mileage for Cost Accounts

| Sheet | Sq. Mi. |
|--------------|-----------|
| TP-00010 | 2 |
| TP-00014 | 8 |
| TP-00015 | 12 |
| TP-00016 | 10 |
| TP-00017 | 2 |
| TP-00018 | 7 |
| Total | 41 |

Revised-10/22/74



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT TP-00015

This 1:10,000 scale shoreline manuscript is one of six maps which comprise Project PH-6912, Estero Bay, Florida. The job diagram shows its location in the project.

The field work done prior to compilation consisted of pre-marking horizontal control that was required for bridging.

Bridging was done in the Rockville office by analytical methods in August, 1969 using 1:40,000 scale color photography dated June, 1969.

Compilation was done at the Atlantic Marine Center in Jan., 1970 using the Wild B-8 Plotter with 1:40,000 scale color photography dated June, 1969.

Field edit was done in Sept., 1970. Much of the field edit was considered superfluous and was not applied by the compilation section. Several items of field edit that had been omitted in compilation were applied by the final reviewer.

Final review was done at the Atlantic Marine Center in July, 1975.

The original manuscript was a stabilene sheet 5 minutes in latitude and 5 minutes in longitude.

A stable base copy and a negative of the final reviewed manuscript were forwarded for record and registry.

FIELD INSPECTION

TP-00015

There was no field inspection prior to compilation.

Photogrammetric Plot Report

Estero Bay, Florida

Job PH-6912

August, 1969

21. Area Covered

This report covers T-sheets TP-00010, TP-00014 through TP-00018 of Estero Bay, Florida.

22. Method

Two bridges were run to provide horizontal control for graphic compilation. The C-8 and C-5 were used for instrumentation. Photographs 69-L(C)-9478 through 9487 and 9493 through 9503 were used in the bridging. In the adjustment of Strip 1 on the IBM 1620, 5 field identified control stations and 12 vertical control points were used. Strip 2 adjustment on the IBM 1620 used 4 field identified control stations and 12 vertical control points.

23. Adequacy of Control

The horizontal control provided, complied with the instructions and was adequate except for Estero Bay North Base. It is believed that Estero Bay North Base was misread in Strip 1 since it held in Strip 2.

All other control held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 scale.

24. Supplemental Data

None

25. Photography

Photography was adequate as to coverage overlay and definition. The 1:20,000 scale color and infrared photography were ratioed for compilation.

Submitted by,

Robert B. Kelly
Robert B. Kelly

Approved by

Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. TP-00015 | JOB NO. PH-6912 | GEODETTIC DATUM N.A. 1927 | | AEROTRIANGULATION POINT NUMBER | SOURCE OF INFORMATION (Index) | STATION NAME | ORIGINATING ACTIVITY Coastal Mapping Div., AMC | | REMARKS |
|--------------------------------|--------------------|---|---|--------------------------------------|-------------------------------------|-------------------------|---|--|-----------------|
| | | COORDINATES IN FEET STATE ZONE | GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE | | | | | | |
| | | X= 544,571.95 | ϕ 26° 25' 15.310" | | P.C. page 24, G.P. Pg. 312 | MOUND KEY 2, 1928 | | | |
| | | Y= 758,671.16 | λ 81° 51' 49.715" | 82100 | | | | | |
| | | X= 554,256.70 | ϕ 26° 26' 29.661" | | P.C. page 7, G.P. Pg. 141 | ESTERO NORTH BASE, 1934 | | | |
| | | Y= 766,189.16 | λ 81° 50' 03.078" | 98100 | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
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| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| | | X= | ϕ | | | | | | |
| | | Y= | λ | | | | | | |
| COMPUTED BY A.C. Rauck, Jr. | | COMPUTATION CHECKED BY Charles H. Bishop | | DATE 9/3/69 | | | | | DATE 1/27/70 |
| LISTED BY | | LISTING CHECKED BY | | DATE | | | | | DATE |
| HAND PLOTTING BY | | HAND PLOTTING CHECKED BY | | DATE | | | | | DATE |

COMPILATION REPORT

TP-00015

Project PH-6912

GENERAL STATEMENT:

Due to a malfunction of the camera, there were no fiducial marks on the bridging plates, the 1:20,000 scale hydro support photography or the 1:20,000 scale infrared photographs, with the exception of one strip of hydro support photos (60 L 9245). Centers were put on the ratio photographs, which had no fiducial marks, using a template. The accuracy of this method is questionable.

The centers are shown on both the photographs and the manuscript with broken circles and are considered approximate. No points should be located on the manuscript by the radial line method using these centers, nor should the centers be used for radially locating signals in the field.

31. DELINEATION:

The Wild B-8 was used for delineation, using 1:40,000 scale color photography.

Photography was adequate for compilation. Color tone was poor on the 1:20,000 color photographs.

32. CONTROL:

See "Photogrammetric Plot Report", Estero Bay, Florida, dated August, 1969.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office inspection of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from the high altitude color photography, then checked with the 1:20,000 scale infrared ratio photos as it was inked.

No low water line is shown on this manuscript.

Piers, groins and slips were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

No recoverable topographic stations are on this map. A sufficient number of shoreline pass points have been established to facilitate location of hydrographic signals.

39. JUNCTIONS:

Satisfactory junctions were made with TP-00010 to the north, TP-00014 to the west and TP-00016 to the south. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to General Statement preceding Par. #31.

41. FIELD EDIT:

Field edit was adequate. All questions asked were answered. The answers were clear and legible. There were many recommendations made

for changes in the shoreline. Some of these are considered to be unnecessary. An attempt was made to show all of the cultural detail (Bkhd.s., ramps, boat slips, etc.) identified by the field editor though many of these are considered to be insignificant.

There are no landmarks or aids to navigation within the limits of this manuscript.

42. - 45.

No additional items.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with U.S.G.S. Quadrangles ESTERO, FLORIDA, scale 1:24,000 dated 1958 and FORT MYERS BEACH, FLORIDA, scale 1:24,000, dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 856 SC, scale 1:40,000, 7th edition, dated Sept. 13, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted:

Charles H. Bishop

Charles H. Bishop

Cartographer

January 28, 1970

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

21 April 1975

GEOGRAPHIC NAMES

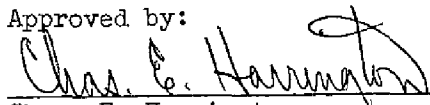
FINAL NAME SHEET

PH-6912 (Florida)

TP-00015

Big Bayou
Black Key
Box Point
Coon Key
Cow Creek
Dixon Point
Dog Key
Estero
Estero Bay
Estero Island
Estero River
Estero River Heights
Gulf of Mexico
Halfway Creek
Hell Peckney Bay
Hendry Creek
Horseshoe Keys
Island Park
Julies Island
Matanzas Pass
Mound Key
Mullock Creek
Needmore Pass
Needmore Point
Ostego Bay
Rocky Bay
Sister Key
Starvation Flats
Starvation Key-
Stingaree Key

Approved by:



Chas. E. Harrington
Staff Geographer-C51x2

JOB PH-6912
ESTERO BAY, FLORIDA

T-Sheets: TP-000009, TP-00010, TP-00014 thru TP-00018

49- NOTES FOR THE HYDROGRAPHER AND FIELD EDITOR.

This special note is called to your attention. It concerns the absence of fiducial marks at the sides and corners of the infrared and color ratios submitted for your use.

The following ratios do not have fiducial marks, therefore their centers are shown by a double dashed circle. These ratios shall not be used to radially intersect positions of hydrographic signals. Pass points along the shoreline have been spaced closer than usual in order that you may by direct careful pricking, locate signals if required.

| COLOR | INFRARED |
|-----------------------|----------------------|
| 69L(c)-9338 thru 9371 | 69L-9264R thru 9284R |
| | 69L-9296R " 9312R |
| | 69L-9314R " 9329R |

REPEAT: DO NOT USE THE ABOVE LISTED RATIOS FOR RADIAL LOCATION OF SIGNALS.

The following listed color ratios: 69L(c)-9238 thru 9259, do have double solid centers fixed by fiducial marks, are specially processed, and may be used for radial intersection of signals.

| NOAA FORM 75-74 (2-74) | | U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY | |
|---|--|--|--|
| PHOTOGRAMMETRIC OFFICE REVIEW | | | |
| TP-00015 | | | |
| 1. PROJECTION AND GRIDS Coradomat RES | 2. TITLE RES | 3. MANUSCRIPT NUMBERS RES | 4. MANUSCRIPT SIZE RES |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY Coradomat Auto Plotter | | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X X | 7. PHOTO HYDRO STATIONS X X |
| 8. BENCH MARKS X X | 9. PLOTTING OF SEXTANT FIXES X X | 10. PHOTOGRAMMETRIC PLOT REPORT Bridge W.O. | 11. DETAIL POINTS Wild B-8 |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE RES | 13. LOW-WATER LINE RES | 14. ROCKS, SHOALS, ETC. RES | 15. BRIDGES X X |
| 16. AIDS TO NAVIGATION RES | 17. LANDMARKS X X | 18. OTHER ALONGSHORE PHYSICAL FEATURES X X | 19. OTHER ALONGSHORE CULTURAL FEATURES RES |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES RES | | 21. NATURAL GROUND COVER RES | 22. PLANETABLE CONTOURS X X |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS X X | 24. CONTOURS IN GENERAL X X | 25. SPOT ELEVATIONS X X | 26. OTHER PHYSICAL FEATURES RES |
| CULTURAL FEATURES | | | |
| 27. ROADS RES | 28. BUILDINGS RES | 29. RAILROADS X X | 30. OTHER CULTURAL FEATURES RES |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES X X | | 32. PUBLIC LAND LINES X X | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES RES | | 34. JUNCTIONS RES | 35. LEGIBILITY OF THE MANUSCRIPT RES |
| 36. DISCREPANCY OVERLAY | 37. DESCRIPTIVE REPORT RES | 38. FIELD INSPECTION PHOTOGRAPHS X X | 39. FORMS RES |
| 40. REVIEWER R.E. Smith | | Date 2/4/70 | SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. |
| 41. REMARKS (See attached sheet) | | | |
| FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT | | | |
| 42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43. | | | |
| COMPILER A.L. Shands | | Date 10/6/71 | SUPERVISOR Albert C. Rauck, Jr. |
| 43. REMARKS Field Edit Applied From: Field edit ozalid, film ozalid, field Photos, 69L(C)-9245, 69L(C)-9343-9346, and 69L(C)-9365 thru 9368. | | | |

52. ADEQUACY OF COMPILATION

Compilation was adequate. Numerous shoreline changes were noted in the mangrove areas due, primarily, to ragged shoreline being drafted too smoothly.

All of the mangrove islands in the lower center of the sheet, excluding Mound Key, are depicted on the map as smooth, gently curved, shoreline. The shoreline of these "keys" is actually very ragged and broken and should be so mapped. This "ragged" shoreline is obvious on the color photographs. Appropriate annotations were made on the field edit ozalid and cross-referenced to the photographs. Needmore Point was compiled as continuous shoreline when it is actually formed of several large separated mangrove bushes. The "point" should be mapped in its true configuration. Most of the mangrove shoreline on the manuscript is very ragged and is obvious on the color photographs. The major shoreline changes concern the numerous "sand" areas, near the center of sheet, which were mapped as MHWL. There is no MHWL in these areas and no "sand". All are oyster bars with mangrove bushes growing on them. The "oyster bars" are covered at MHW and bare a foot or more at MLW. The "oyster bars" should be mapped as "awash" and the mangrove bushes, which are readily discernible on the color photographs should be shown as apparent shoreline. Several large "oyster bars" were not compiled, and compilation of one was not extended far enough. They were inked on the photographs and attention was drawn to them on the field edit ozalid. "Oyster bars" are the major features of this area which is locally known as "ROCKY BAY".

Most of the compiled "MHWL" at the entrance to the Estero River is actually "awash" at MHW. Three small areas on this "spoil bank" actually form MHWL and were outlined on the photographs. Appropriate notes were made on the field edit ozalid.

There are "oysters in the foreshore" from Starvation Key to the mouth of Hendry Creek.

A "wreck", at lat. 26° 26.1', long. 81° 50.3', was compiled as an islet. It was dealt with on the field edit ozalid.

Two small stretches of "fast" shoreline on Mound Key and one stretch of "fast" shoreline on Dog Key were overlooked. Limits were inked on the photographs and notes made on the field edit ozalid.

In the Estero Island portion of the map, numerous boat slips, boat houses, bulkheads and small piers were not mapped. Boat slips, boat houses and bulkheads were indicated on the field edit ozalid and cross-referenced to the appropriate photographs. Not all of the "small piers" were indicated. They are unimportant and, in any case, are readily apparent on the photographs. The larger ones should be mapped.

The two "inundated" areas, in the lower left hand corner of the sheet, are cleared mangrove. A proposed hospital is to be constructed in the area. The easterly area floods at MHW. The westerly area does not.

There are forty-five privately maintained channel markers on this sheet. They were located with three point fixes from photo-hydro signals, plotted on mylar with a steel three-arm protractor, and the positions transferred to the signal manuscript for use by the hydrographer. The positions of these markers can be obtained from the film ozalid copy of the signal manuscript which accompanies this report.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPYGeographic Names.

In accordance with verbal instructions given the field editor, no investigation of geographic names was made. Geographic names will be the subject of a special report to be submitted at a later date.

56. LANDMARKS AND NON-FLOATING AIDS FOR NAVIGATION

There are no nautical landmarks or fixed aids to navigation, as defined, within the limits of this map. See side heading 52 for a discussion of the privately maintained channel markers on this sheet.

57. ROCKS, REEFS AND SHOALS

There are no "rocks" within the limits of this map. Reefs are closely approximated by the "oyster bars" near the center of the sheet. These "oyster bars" were discussed under "Adequacy of Compilation" above.

One "shoal", as defined, exists at lat. $26^{\circ} 25.2'$, long $81^{\circ} 52.8'$. It was not compiled. It was outlined on the appropriate photograph and attention drawn to it on the field edit ozalid:

There are extensive "flats" on this map. All of the dark areas on the color photographs outside the channel limits have very little water over them at MLW. See the 1970 hydrography for actual depths.

58. PHOTOGRAPHY

Photography consisted of 1:10,000 ratio color photographs. There were no fiducial marks on any of the photographs except those covering the Estero Island portion of the map. Some difficulty was encountered with photograph 69L(c)9346 during photo-hydro support. It was suggested that there may be some tilt in this particular photograph.

59. DISPOSITION OF DATA

The field edit ozalid, a film ozalid containing field edit information, the field edit photographs, the processed color office prints and the matte finish infrared photos, along with all pertinent data, were forwarded to the Director, Atlantic Marine Center. Two film ozalids, one containing photo-hydro signals were transmitted to the hydrographic field party. Originals of form 526's were transmitted to geodesy.


Richard E. Kesselring
Surveying Technician

September 21, 1970

REVIEW REPORT TP-00015

SHORELINE

July, 1975

61. GENERAL STATEMENT:

See Summary, which is page six of this Descriptive Report.

A comparison print showing differences noted in paragraphs 62 through 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-11415, T-11416, T-11418 and T-11419 scale 1:10,000, dated 1961. In the areas compared TP-00015 supersedes T-11415, T-11416, T-11418 and T-11419 for nautical chart construction purposes. These T-sheets are the latest registered prior^{survey} of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles ESTERO, FL, scale 1:24,000, dated 1958 and FORT MYERS BEACH, FL, scale 1:24,000, dated 1958. The seaward shoreline of Estero Island has receded by approximately 50 meters.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the original boat sheet for Survey H-9147 (HFP-745-10-1-70), scale 1:10,000, dated 1970. Shoreline on the boat sheet is from the Class III (Incomplete) manuscript. Several shoreline changes were made on Black Key, Mound Key, along the shoreline of Rocky Bay and on the northeast shore of Estero Island by field edit. This accounts for the several small differences found between the boat-sheet and the final reviewed manuscript TP-00015.

65. COMPARISON WITH NAUTICAL CHARTS:

The area covered by this map is within the limits of NOS Chart 11426, scale 1:80,000, 17th edition, dated July, 1974 and NOS Chart 11427, scale 1:40,000, 12th edition, dated Aug., 1974. A visual

comparison was made with each chart. There are several small keys shown with a high water line in the area of Horseshoe Keys and Needmore Point on Chart 11427. These are shoal areas on TP-00015. There is a cable area charted from Estero Island to the shore of Rocky Bay. The field man made no reference to this cable area and therefore, it was not mapped.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Billy H. Barnes

Billy H. Barnes
Cartographer
July, 1975

Approved for forwarding:

Victor E. Serena

Victor E. Serena
Chief, Photogrammetric Branch, AMC

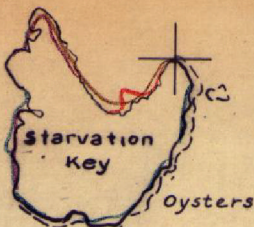
Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

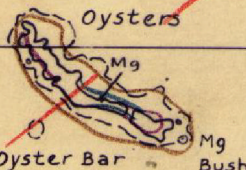
COMPARISON PRINT
 Blue= T-11415 & T-11418.
 Red= Chart 11427
 Purple=H-9147
 Brown=USGS

TP-00015 Mg Bush
 and oys
 1:10,000
 21



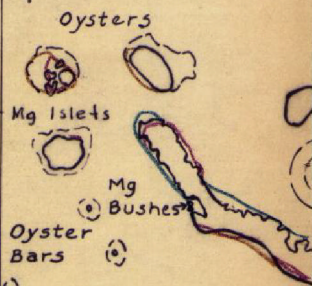
Sister Key

E S T E



26° 26'

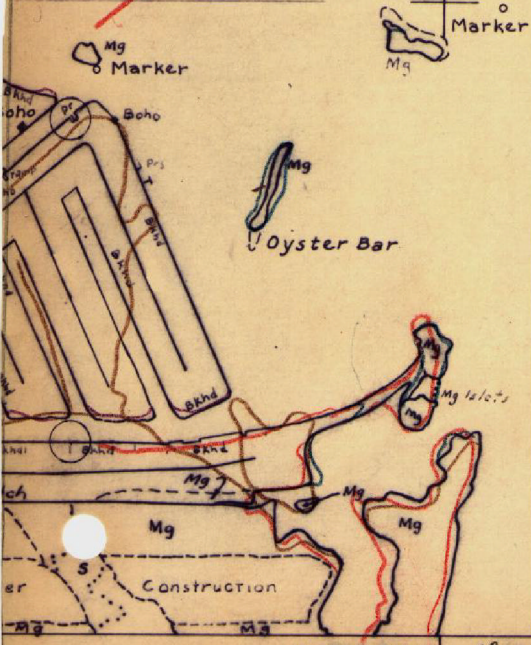
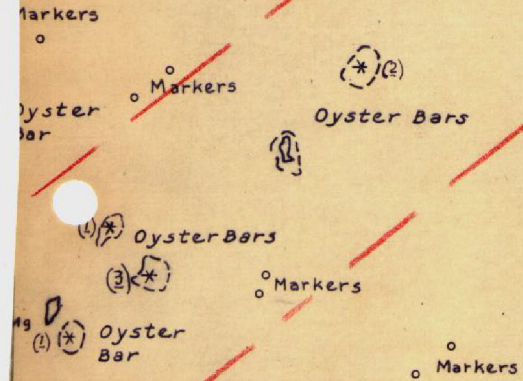
Cable Area



STARVATION FLATS

NOTE:
 "The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

26° 25' 30"



o Marker

o Markers

o Marker

Ostego Bay

o Marker



Coon Key

26° 25' 00"

X = 535,000 FT 81° 53' 30"

81° 53' 00"

2



TP-00015
1:10,000

23

COMPARISON PRINT
Blue-T11419
Red-Chart 1142 7
Purple-H9147
Brown-USGS



JOINS INSET

26°
25' 30"
y=760

26°
26° 25'
81° 30' 00"

69 L 9322 R

69 L (G) 9364

81° 50' 30"

550,000 FT

81° 00"

81° 30"

4

NATURAL AREA SURVEY

TP-00015
1:10,000

Mangrove

COMPARISON PRINT

Blue=T11415
Red=Chart 11427
Brown=USGS

26° 27' 30"

(JOINS TP-00014)

y=770,000FT

26° 27' 00"

26° 30"

81° 55' 00"

81° 54' 30"

Hell

Peckney

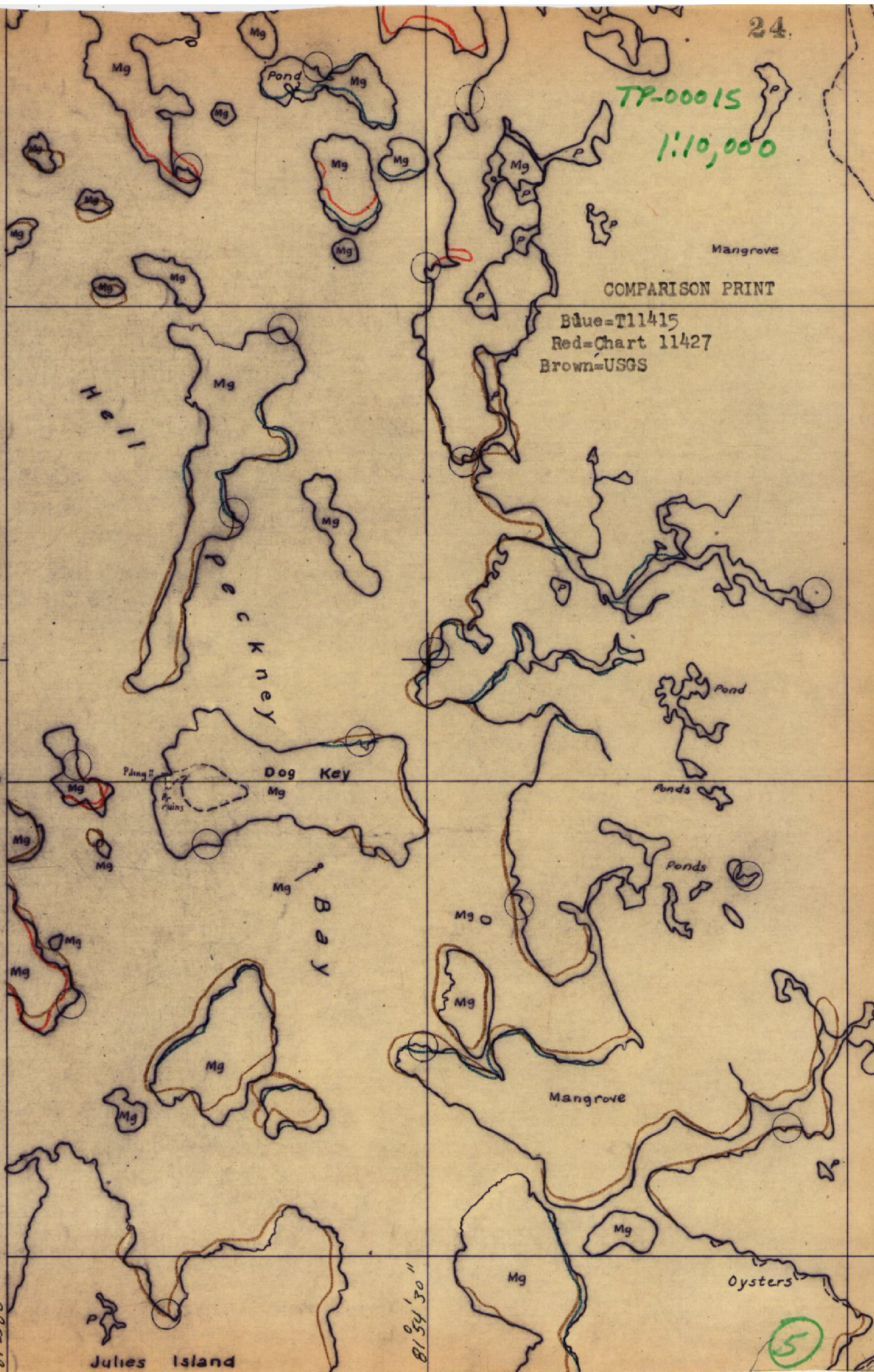
Dog Key

Bay

Julius Island

Oysters

5



TP-00015²⁵
1:10,000

COMPARISON PRINT
Blue=T11415
Red=Chart 11427
Purple=H9147
Brown=USGS

Mahgrove and numerous small ponds

69 L(e) 9343

69 L 9301 R

26°27'00"

69 L(e) 9344

26°26'30"

69 L 930

6





TP-00015
1:10,000
27

Cable area



COMPARISON PRINT
 Blue=T11416 & T11419
 Red=Chart 11427
 Purple=H9147
 Brown=USGS

ESTERO NORTH BASE 1934

Estero River Heights

26°
27° 00'

y=765

y=770

26°
26' 30"

81° 50' 00"

8

TP-00015
1:10,000

28

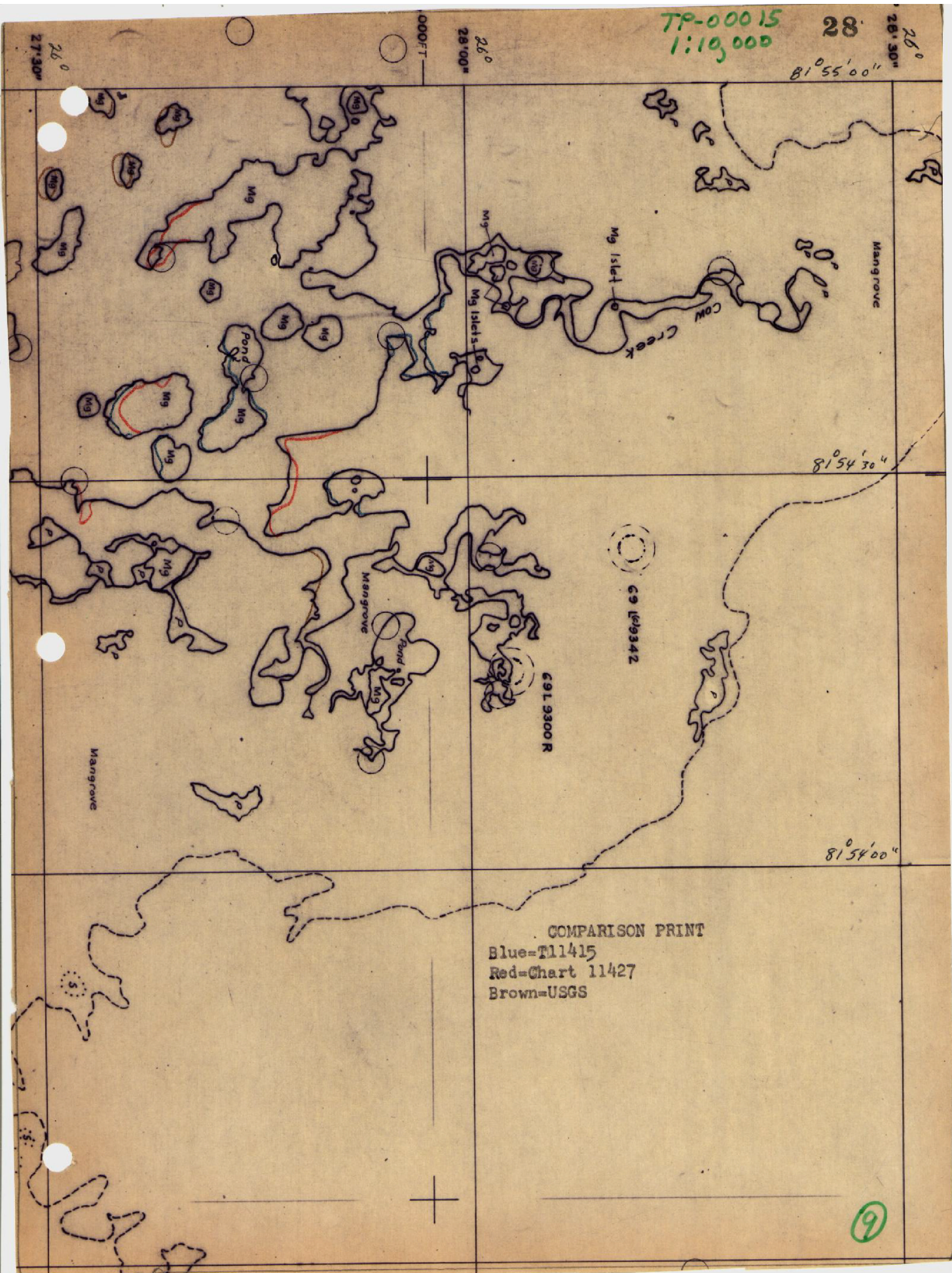
26°
28'30"

81°55'00"

26°
28'00"

000 FT

26°
27'30"



COMPARISON PRINT
 Blue-T11415
 Red-Chart 11427
 Brown-USGS

9

26° 28' 00"

COMPARISON PRINT:
Blue-T11415 and T11416
Red-Chart 11427
Purple-H9147
Brown-USGS

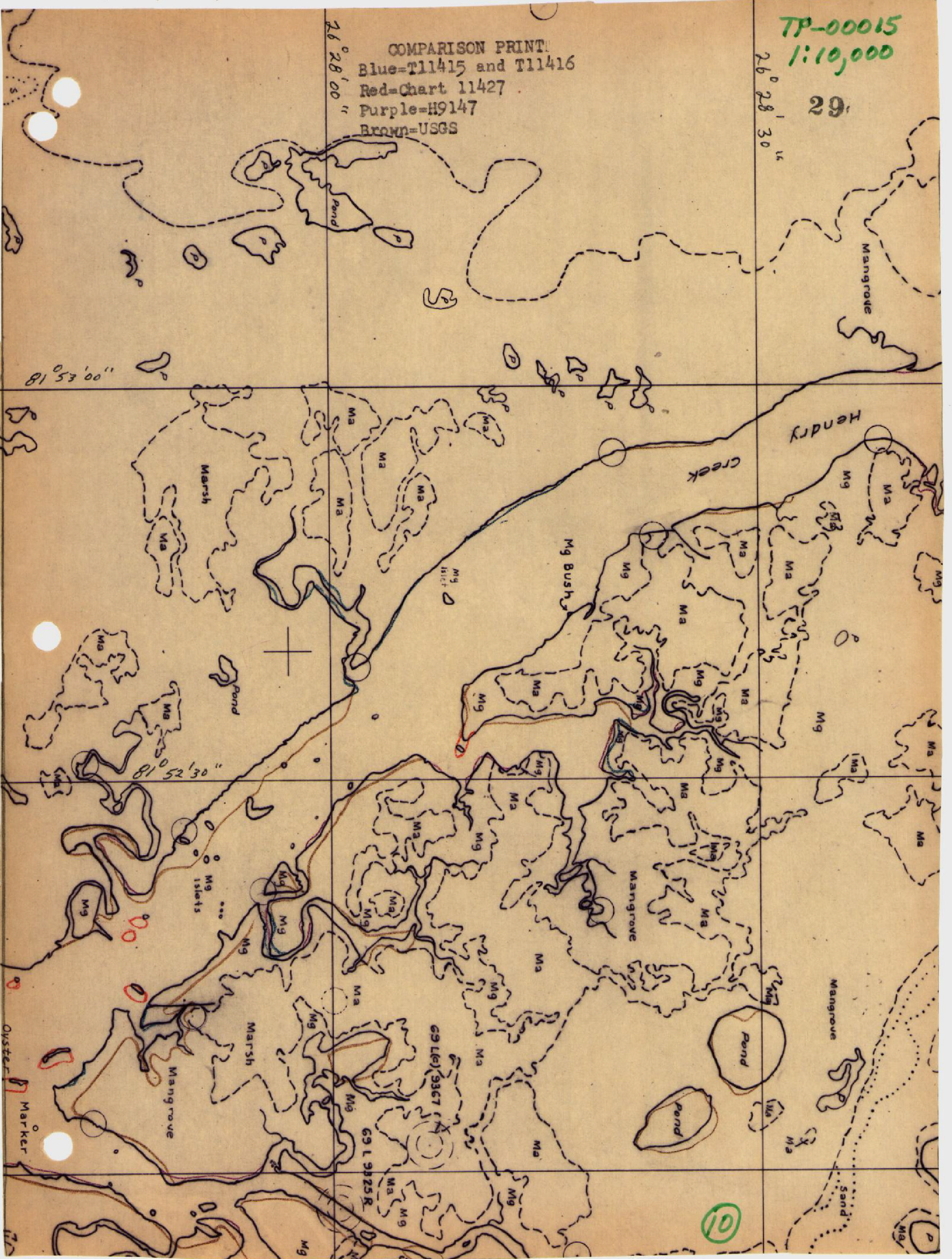
TP-00015
1:10,000

26° 28' 30"

29

81° 53' 00"

81° 52' 30"



COMPARISON PRINT
Blue-T11415 & T11416
Red-Chart 11427
Purple-H9147
Brown-USGS

TP-00015
1:10,000

30



Limits of Hydrography

81° 52' 00"

81° 51' 30"

26° 29' 00"

26° 29' 30"

11

31

TP-00015
1:10,000



26° 28' 00"

COMPARISON PRINT
 Blue-T11416
 Red-Chart 11427
 Purple-H9147
 Brown-USGS

26° 27' 30"

81° 51' 00"

81° 50' 30"

12

TP-00015
1:10,000

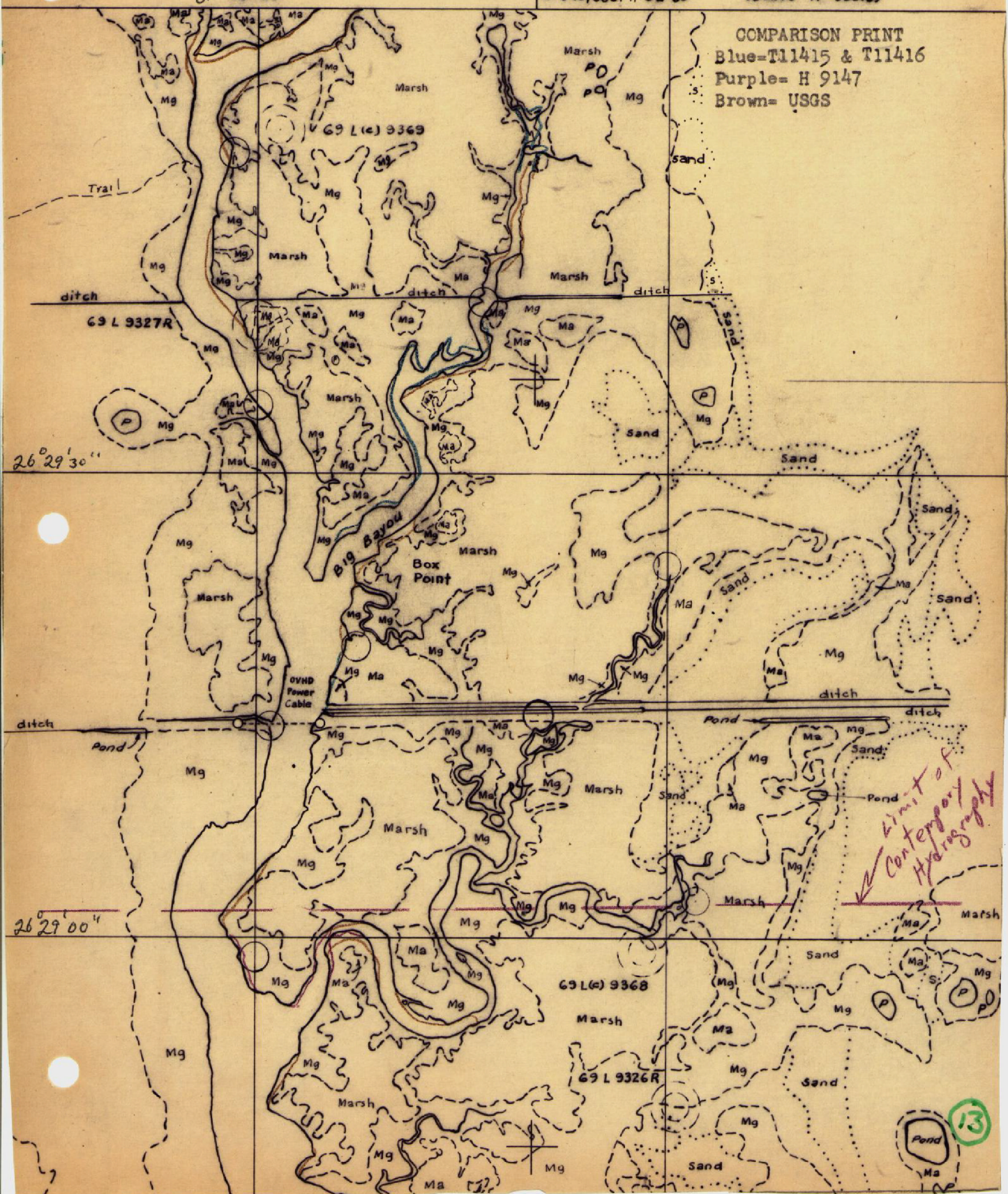
32

81° 53' 00"

81°
X=540,000 FT. 52' 30"

(JOINS TP-00010)

COMPARISON PRINT
Blue=T11415 & T11416
Purple= H 9147
Brown= USGS



30"

81° 51' 00"

x = 550,000 FT.

81° 50' 30"

26° 30' 00"

TP-00015
1:10,000

33

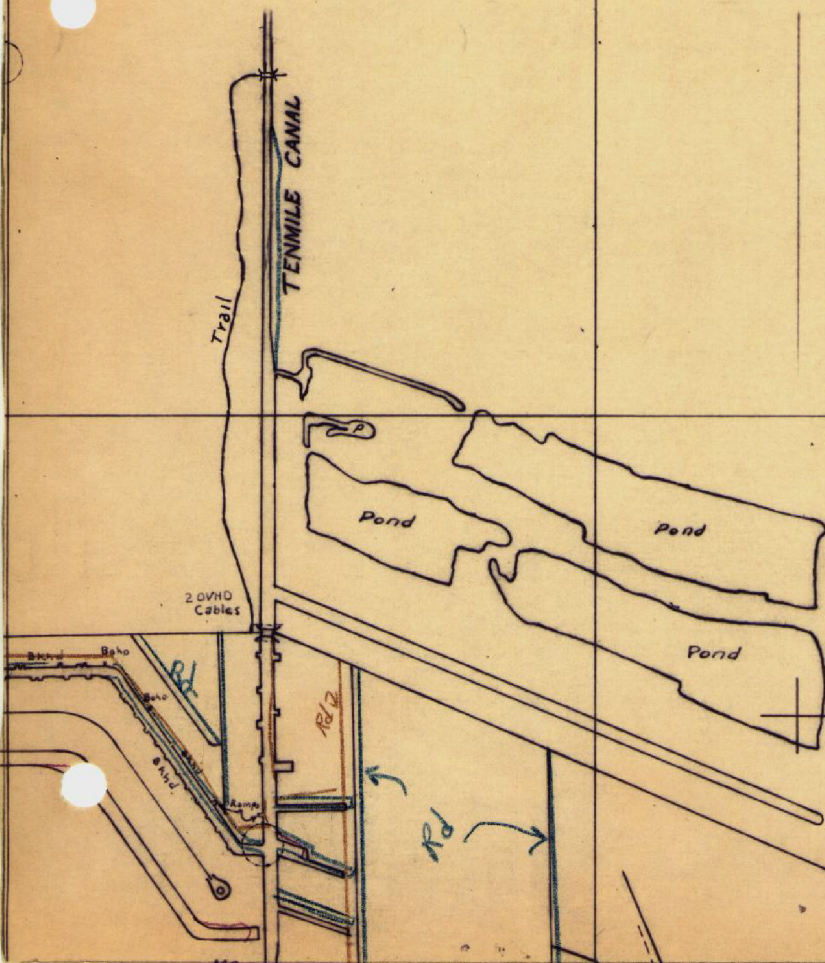
COMPARISON PRINT
Blue=T11416
Brown=USGS

81° 51' 00"

81° 50' 30"

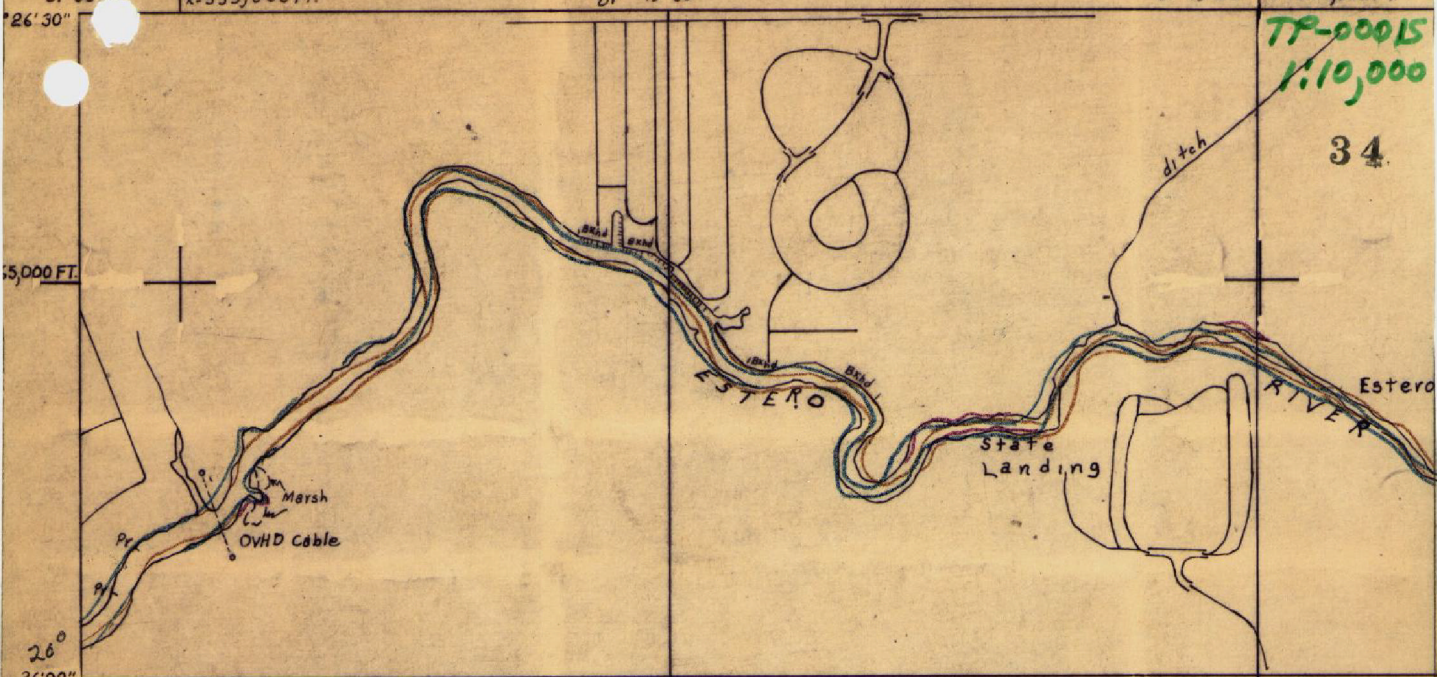
26° 29' 30"

26° 29' 00"



(14) (15)

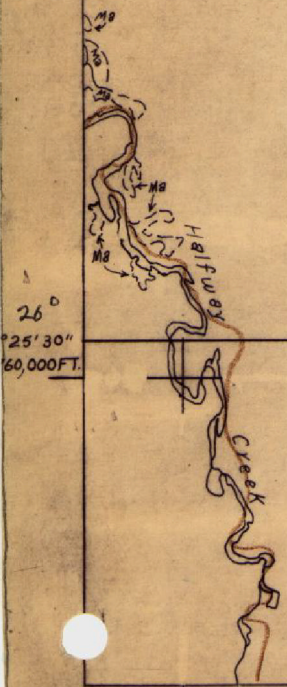
81°50'00" X=555,000 FT. 81°49'30" 81°49'00" X=560,000 FT.



TP-00015
1:10,000
34

COMPARISON PRINT
Blue= T11416 and T11419
Purple= H 9147
Brown= USGS

INSET
Continuation of
ESTERO RIVER
Scale 1:10,000



81°50'00" X=555,000 FT. 49'30" 81°49'00" X=560,000 FT.

15