

8412

Diag. Cht. No. 685.

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-2258 Office No. H-8412

LOCALITY

State Florida

General locality Jacksonville

Locality St. Johns River

19 58

CHIEF OF PARTY

R. C. Darling

LIBRARY & ARCHIVES

DATE June 10, 1958

8412

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8412 E. A. PARK

Field No. ECFP-2258

State Florida

General locality Jacksonville, Florida

Locality St. Johns River

Scale 1:20,000 Date of survey 4 thru 17 April 1958

Instructions dated 22/MEK, FP-EAST COAST dated 15 January 1958

Vessel CS-168

Chief of party Robert C. Darling

Surveyed by Allen G. Davis

Soundings taken by ~~hydrographic~~ graphic recorder, hand lead, ~~and~~ sounding pole

Fathograms scaled by party personnel

Fathograms checked by Lawrence L. Seal

Protracted by Allen G. Davis

Soundings penciled by Allen G. Davis

Soundings in ~~metric~~ feet at MLW ~~metric~~ and are true depths

REMARKS:



DESCRIPTIVE REPORT  
TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8412 FIELD NO. ECFP-2258  
St. Johns River, Florida

PROJECT 10,000 - 808

SCALE 1:20,000

EAST COAST FIELD PARTY

1958

ROBERT C. DARLING, CH. OF PTY.

SURVEYED BY- A. G. Davis

\* \* \* \* \*

A. PROJECT

Work on Project 10,000-808 was executed in accordance with instructions 22/MEK, FP-East Coast dated 15 January 1958.

B. SURVEY LIMITS AND DATES

The area covered by this survey is in the St. Johns River, Florida adjacent to the Naval Air Station, Jacksonville, Florida. The limits are from latitude  $30^{\circ}-10.0'N$  to latitude  $30^{\circ}-16.6'N$  and longitude  $81^{\circ}-38.3'$  on the east to  $81^{\circ}-41.8'$  on the west.

This survey was a revision survey run on a blue print of Hydrographic Survey H-6296. The limits meet requirements as instructed, in instructions 22MEK, FP-East Coast dated 15 January 1958.

C. VESSELS AND EQUIPMENT

Launch CS-168 was used for this survey. The launch was based at the Naval Air Station, Jacksonville, Florida for the entire survey. Launch CS-168, a 25 foot aluminum launch, has a turning radius of 25 meters at half rudder and standard speed.

The following fathometers were used:

<u>TYPE</u>	<u>SERIAL NO.</u>
EDO 255	201 (was used with a Kato converter)
808j	101S

These fathometers were used in a depth up to about 30 feet.

D. TIDES AND CURRENT STATIONS

Tide station at Piney Point latitude  $30^{\circ}-13.68'$  longitude  $81^{\circ}-39.81'$  was used for the entire survey.

See Tide Note Appendix D.

No current stations within the limits of this survey were occupied.

### E. SMOOTH SHEET

The smooth sheet projection was constructed by the Washington Office. The signal transfer and hydrographic plot were placed on the sheet by East Coast Field Party personnel.

### F. CONTROL STATIONS

The following triangulation control was used on this survey:

<u>STATION</u>	<u>G.P. PAGE</u>	<u>VOL. NO.</u>	<u>CH. OF PTY.</u>
DuPont, 1934	268	1	H.A.P.
San Jose, 1932	267	1	H.A.P.
San Jose, Golf Club Water Tank			
Finial, 1932	31	1	H.A.P.
Vincent, 1934	267	1	HAP
Yacht, 1934	288	1	H.A.P.
East, RadioMast Naval Air Station, 1958	---	---	---
North, Radio mast Naval Air Station, 1958	---	---	---
West, Radio mast Naval Air Station, 1958	---	---	---

(1957-58)

All topographic control was located on photogrammetric manuscript T-11093 using standard photogrammetric methods. This control was located by the Tampa District Office, based at Tampa, Florida.

### G. SHORELINE AND TOPOGRAPHY

Shoreline and topographic detail were obtained from photogrammetric manuscript T-11093. (1957-58)

There were no changes in shoreline or topographic detail during this survey from that shown on the above mentioned manuscript. The low waterline was covered as completely as safety to equipment would permit.

### I. CONTROL OF HYDROGRAPHY

All hydrographic control was by standard visual methods with sextant angles taken on shore objects. Positions were usually taken at 2 & 2½ minute intervals. Soundings were usually taken at 30 seconds except at reduced speed when they were taken every 45 seconds.

### J. ADEQUACY OF SURVEY

This survey is an investigative type survey and is complete and adequate within the limits and instructions defined. Depth curves can be drawn from the soundings obtained.

K. CROSSLINES

Crosslines were run at about 6 to 8% of the total sounding lines and are in good agreement.

L. COMPARISON WITH PRIOR SURVEYS

(1934-35)

The present survey was compared with prior survey H-6296. In general the soundings shown on the prior survey are in agreement with the new survey with the exception of those listed below.

1. The 12' curve on the east side of river has moved west approximately 300 meters.
2. The 12' curve north of latitude 30°-14.4' has straightened out on the west bank.
3. 6' curve on the east side is moving west at latitude 30°-15'
4. The 6' shoal in vicinity of latitude 30 -13'N longitude 81 -39.7' has been removed by dredging, the 2' depths are now 13 and 14 feet. The dredging activity and currents are a deciding factor as to the cause of the differences in the depth curves. In all other areas the soundings are in close agreement with prior Survey H-6296.

See TP 5 of Review

M. COMPARISON WITH CHART

A comparison with Chart No. 685 print date 6/4/56, shows no important differences except those listed in section N. of this report.

See TP 6 of Review

N. DANGERS AND SHOALS

The following list shows the comparison with the chart print date 6/4/56. There are no new shoals to report.

- a. The area in lat 30°-14.7N longitude 81°-38.8W is a (spoil area) which was investigated with a hand lead. The material is hard. This area is subject to change. *Area not used for spoil deposit since 1947 considered superseded by this survey and removed from chart*
- b. The 12 foot depth at latitude 30°-13.8' longitude 81°-38.6' was not found on this survey. The present adjacent depth indicates that the 12 foot depth has been eroded by current action. *No W 13ft (1958)*
- c. The charted sunken pile in latitude 30°-15.9' longitude 81°-39.9' was investigated according to instructions 22/MEK, FP-East Coast dated 15 January 1958. This investigation failed to prove or disprove the existence of this pile. Wire drag is recommended before the pile symbol should be taken off the chart. Considerable time was spent on the comparison with the prior survey and the chart. *Retain sunken pile on chart. See Review TP 6.*

685 RKD5-245

*below Aids not listed in Lt List and not charted per Aids section Referred to C. G. Miller 7/28/58*

P. AIDS TO NAVIGATION

Fixed aids to navigation are listed on Form 567. There are no floating aids to navigation that are listed in the Light List. The Jacksonville Naval Air Station maintains 3 buoys.

1. A black and white vertical stripe buoy with reflector on top latitude 30°-13.6' longitude 81°-39.6'.
2. Black and white vertical stripe buoy with reflectors on top latitude 30°-13.7' longitude 81°-39.7'.

P. AIDS TO NAVIGATION (CONT'D)

3. A yellow and black striped buoy with light on top latitude 30 -14.1' longitude 81 -39.25'. It is not known if aids are maintained seasonal or not. ✓

O. COAST PILOT REPORT (out of sequence)

There is no Coast Pilot information to report. ✓

Q. LANDMARKS FOR CHARTS

Landmarks for charts are submitted on Form 567. ✓

R. GEOGRAPHICAL NAMES

There are no new geographical names to report. ✓

S. SILTED AREAS

Not applicable ✓

T. BY PRODUCT INFORMATION

Not applicable ✓

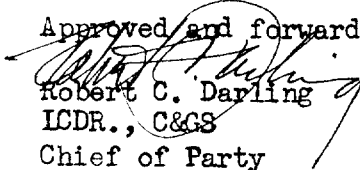
U-Y MISCELLANEOUS

No difficulties were encountered ✓

Z. TABULATION OF APPLICABLE DATA

The bar check tabulation is listed under Appendix B. ✓

Respectfully submitted,  
*Allen G. Davis*  
Allen G. Davis  
Cart. Survey Aid

Approved and forwarded,  
  
Robert C. Darling  
LCDR., C&GS  
Chief of Party

Appendix

ATTACHMENTS

- A. LIST OF CONTROL STATIONS
- B. ABSTRACT OF VELOCITY CORRECTIONS
- C. STATISTICS
- D. TIDAL NOTE
- E. APPROVAL SHEET

Advance Review

H-8412 add Wk 1959

The submerged piling (per 6 A 3 of Review) should be retained as charted. It is considered that the marine sweep and pipe drag did not cover sufficient area in the vicinity of its charted position of the pile. The accuracy of the position of the pile is unknown because the only position is that reported by the U.S. Coast Guard in HON to M <sup>23, 1940</sup> 31, 1953

(4538)

J. J. Jensen  
4/16/59

Disregard the above. See Review  
add work 1959. J. J. Jensen 1/29/31

839

EAST COAST FIELD PARTY

P. O. Box 515, Jacksonville, Florida

~~H-8412~~ Add WK(1959)  
C 8412

6 April 1959

CS-407

To: The Director  
Coast and Geodetic Survey  
U. S. Department of Commerce  
Washington 25, D. C.

Subject: Report to Accompany Hydrographic Survey H-8412  
(Field No. ECFP 2258)

Items No. "7" and "8" were determined as instructed in supplementary instructions 22/MEK dated 5 March 1959.

The submerged piling "remains of a former light structure" charted in lat.  $30^{\circ}16'.0''$ , long.  $81^{\circ}39'.5''$  was not located by using a marlin sweep as described in Special Publication No. 118 and by other means which are described in the sounding records.

It was estimated that the area shown on Overlay No. 2 was cleared to a depth of 13.0 feet, mud and grass from the bottom were in evidence when the drag was brought aboard. The drags were done on Overlays numbered 1 and 2 which will accompany boat sheet H-8412.

The development of extent and least depth of bar indicated lat.  $30^{\circ}14'.9''$ , long.  $81^{\circ}38'.9''$  on H-8412 was done directly on boat sheet H-8412. Sounding was put on by using predicted tides. Indications are that the bar extends 400 meters in a southerly direction as comparison with survey No. 6296, 1934, scale 1:20,000 and chart 685 dated 17 March 1948.

Launches CS-168 and CS-188 were used for this job, tide gage at Ortega River, lat.  $30^{\circ}16'.8''$ , long.  $81^{\circ}42'.83''$  was used for the tide reducers in the volumes.

~~Are latitude and longitude values in seconds or tenths of a minute?~~

Howard S. Cole, LCDR  
Officer in Charge  
East Coast Field Party

83 seconds ???

39.95'

14.75'

38.85'

16.8'

42.33'

APPENDIX A  
LIST OF CONTROL STATIONS

ACK	T-11093 ✓
AND	T-11093 ✓
ANK	T-11093 ✓
ANN	T-11093 ✓
APE	T-11093 ✓
BIA	T-11093 ✓
BOA	T-11093 ✓
BOX	T-11093 ✓
COB	T-11093 ✓
DIN	T-11093 ✓
DOC	T-11093 ✓
DOL	T-11093 ✓
END	T-11093 ✓
EST-East Radio Mast Naval Airsta., 1958 ✓	
FIN-San Jose, Golf Club water tank ✓	
fixial, 1932	
FOR	T-11093 ✓
GAB	T-11093 ✓
HUT	T-11093 ✓
HOS	T-11093 ✓
IID	T-11093 ✓
ITE	T-11093 ✓
IAC	T-11093 ✓
LAK	T-11093 ✓
LOW	T-11093 ✓
NAB	T-11093 ✓
NAS	T-11093 ✓
NER	T-11093 ✓
NEY	T-11093 ✓
NOR-North Radiomast NAS, 1958 ✓	
OAT	T-11093 ✓
OFF	T-11093 ✓
ORT	T-11093 ✓
PEA	T-11093 ✓
PED	T-11093 ✓
PEP	T-11093 ✓
PONT-DuFont, 1934 ✓	
RAD	T-11093 ✓
RED	T-11093 ✓
REN	T-11093 ✓
ROG	T-11093 ✓
RON	T-11093 ✓
ROO	T-11093 ✓
SAN-San Jose, 1932 ✓	
SHE	T-11093 ✓
SOU	T-11093 ✓
TAN	T-11093 ✓
TEE	T-11093 ✓
TIE	T-11093 ✓
TIN	T-11093 ✓
TOW	T-11093 ✓
USE	T-11093 ✓
VIN-Vincent, 1934 ✓	
WER	T-11093 ✓
WES-West, Radiomast NAS, 1958 ✓	
YAC-Yacht, 1934 ✓	

APPENDIX B

ABSTRACT OF VELOCITY CORRECTIONS

PROJECT 10,000-808

LAUNCH CS-168

FATHOMETERS NOS. EDO 201 & 808J 101S

The velocity correction for both fathometers is 0.0' for the entire survey H-8412, which bar checks will prove.



APPENDIX C  
STATISTICS  
To Accompany

Hydrographic Survey Sheet H-8412, Field No. ECFP-2258

DATE 1958	VOL. NO.	DAY LTR.	NO. D.P.	POSIT. FATH.	STAT. MI. SDG. LINE
4 April	1	a	0	60✓	12.6
5 "	1	b	1✓	145✓	32.9
7 "	1&2	c	3✓	77✓	19.3
8 "	2	d	1✓	84✓	22.1
9 "	2	e	0	<del>37</del> 36	9.2
14 "	2&3	f	39✓	64✓	15.1
15 "	3	g	14✓	28✓	4.9
16 "	3	h	33✓	63✓	15.9
17 "	3&4	j	4	8381	12.1
TOTALS			95	<del>741</del> 638	144.1 125.3

Square miles of soundings 12.0

e- only 36 positions in volume -  
j- last (2) posit. REJECTED AT NORFOLK OFF.  
W. Laig-Verrier



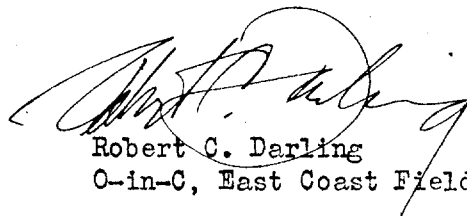
APPENDIX E

APPROVAL SHEET

To Accompany

Hydrographic Survey H-8412 (ECCP-2258)

The record books, fathograms, boat sheet and smooth sheet for this investigative hydrographic survey H-8412, have been inspected and are approved. ✓



Robert C. Darling  
O-in-C, East Coast Field Pty.

TIDE NOTE FOR HYDROGRAPHIC SHEET

10 July 1958

Chart Division: R. H. Carstens:

Plane of reference approved in  
4 volumes of sounding records for

HYDROGRAPHIC SHEET 8412

Locality Jacksonville, Florida

Chief of Party: R. C. Darling in 1958

Plane of reference is mean low water, reading  
1.5 ft. on tide staff at Piney Point  
8.8 ft. below B.M. 1 (1958)

Height of mean high water above plane of reference is 0.8 foot.

Condition of records satisfactory except as noted below:

  
Signature

Chief, Tides Branch

GEOGRAPHIC NAMES

Survey No. H-8412

Name on Survey	Source of Name									
	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		
<u>Florida</u>			(for title)						BGN	1
<u>St. Johns River</u>			"						"	2
<u>Jacksonville</u>			"						"	3
<u>Orange Point</u>										4
<u>Plimmers Cove</u>										5
<u>Beauclerc Bluff</u>									BGN	6
<u>Mulberry Cove</u>										7
<u>Piney Point</u>			(tide station)							8
<u>Venetia</u>										9
<u>Pt. La Vista</u>									BGN	10
<u>Christopher Pt</u>										11
<u>Sadler Pt</u>										12
<u>Black Pt</u>										13
<u>Orange Park</u>										14
<u>Goodby<sup>s</sup> Creek</u>									BGN	15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names approved 7-3-58  
L. HECK

Additional names approved 10-8-58  
L. H.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8412..

Records accompanying survey:

Boat sheets ..1.; sounding vols. .4.; wire drag vols. -----;  
 bomb vols. -----; graphic recorder rolls 5-Envelopes  
 special reports, etc. 1-Smooth sheet and 1-Descriptive report.  
 .1-Blue line tracing T11093 and 1-Blackline tracing T-11093...

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	733
Number of positions checked	143
Number of positions revised	-----
Number of soundings revised (refers to depth only)	-----
Number of soundings erroneously spaced	6
Number of signals erroneously plotted or transferred	0
Topographic details	Time 30 <del>hrs.</del> hrs.
Junctions	Time -----
Verification of soundings from graphic record	Time 4 hrs.

Verification by *W. E. Reig* ..... Total time *7<sup>3</sup> hrs.* Date *7/28/58*  
 Reviewed by *W. J. ...* ..... Time *45* Date *10/6/58*

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8412

FIELD NO. ECFP-2258

Florida, Jacksonville, St. Johns River

Surveyed April 1958

Scale 1:20,000

Project No. 10,000-808

Soundings:

Control:

Edo Depth Recorder  
808 Depth Recorder

Sextant fixes on  
shore signals

Chief of Party - R. C. Darling  
Surveyed by - A. G. Davis  
Protracted by - A. G. Davis  
Soundings plotted by - A. G. Davis  
Verified and inked by - W. E. Roig  
Reviewed by - I. M. Zeskind  
Inspected by - R. H. Carstens

Date 6 Oct. 1958

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic survey T-11093 (1957-58).

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated in the area of the survey.

The bottom generally slopes gradually from shore to depths of 12 ft., and then more steeply to the center of the River

where depths as great as 28 ft. are found. There are several river deeps, which are attributed to dredging operations to reclaim land and provide private channels.

4. Junctions with Contemporary Surveys

No contemporary surveys join the present survey. (Instructions for Project which was written subsequent to the present survey CS-307, dated 7 August 1958, calls for a junction with the present survey on the north.) Charted depths at the limits of the present survey are in adequate agreement with present depths.

5. Comparison with Prior Surveys

A. H-1384a (1876-77), 1:20,000

This prior survey has been compared with and superseded by H-6296 (1934-35). Further consideration of H-1384a, therefore, is deemed unnecessary in the present review.

B. H-6296 (1934-35), 1:20,000

The present survey falls within the area of the prior survey. A comparison between the prior and present surveys shows changes in bottom configuration which are attributed to dredging operations and the depositing of sediment. The bottom has generally shoaled from 1-5 ft. An example of this shoaling occurs in lat.  $30^{\circ}15.65'$ , long.  $81^{\circ}41.05'$ , where a prior depth of 13 ft. falls in present depths of 8 ft.

An exception to this shoaling, however, occurs in the vicinity of lat.  $30^{\circ}13.0'$ , long.  $81^{\circ}39.8'$ , where a prior shoal of about 1 mile in length with depths of 2-6 ft., falls in present depths of 10-11 ft. Land has been reclaimed at Piney Point with the resultant changes in depths. Numerous piers also have been constructed on both shores of St. Johns River.

The present survey is adequate to supersede the prior survey within the common area.

6. Comparison with Chart 685 (Latest print date 3-17-58)  
Chartlet 685 (NM 30, 7-26-58)

*The area east of longitude  $81^{\circ}38'00''$  was not surveyed because it was not called for in the project instructions. The same is true for the area on the eastern shore south of Pt. La Vista inside the 6 ft curve. H-6296 (1934-35) will have to be used to complete the hydro in these areas. R K DeLawder 5-29-58*



A. Hydrography

The charted information originates with the present survey prior to verification and review and with H-6296 (1934-35). A comparison of the present survey with the chartlet reveals only minor differences of 1 ft. in depths; a comparison with the chart south of lat.  $30^{\circ}12'$  shows differences in depths of as much as 5 ft. Attention is directed to the following:

1. The submerged piling located on the present survey in lat.  $30^{\circ}12.03'$ , long.  $81^{\circ}38.8'$ , has not been charted.
2. It is also noted that several piers shown on unreviewed air-photographic survey T-11093 (1957-58) have not been charted.
3. The submerged piling charted in lat.  $30^{\circ}15.98'$ , long.  $81^{\circ}39.95'$ , was formerly a portion of the structure on which light ~~25~~<sup>C.G.</sup> was located (~~---~~<sup>C.G.</sup> N. to M. 23, 1940). An investigation of the area by the hydrographic party failed to confirm or disprove the existence of the submerged piling. The recommendation of the hydrographic party to retain the feature on the chart until it is confirmed or disproved by wire drag (page 3, par. N of the Descriptive Report) is concurred in. *Disproved by Ad Wk 1959*
4. The obstruction located on the present survey in lat.  $30^{\circ}14.74'$ , long.  $81^{\circ}38.85'$ , and falling in depths of 10 ft., has not been charted. A note in the sounding volumes states that the obstruction is believed to be either a rock or piling which could not be identified. Item N of the Descriptive Report notes this to be a spoil area. *Existence of obstruction disproved by Ad Wk 1959*  
*Included on chartlet*

B. Aids to Navigation

The survey positions of the aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended. However, light No. 9 is charted about 35 meters eastward from its survey

position. The 3 buoys located on the present survey in the vicinity of lat.  $30^{\circ}14.0'$ , long.  $81^{\circ}39.5'$ , are maintained by the U. S. Navy. (See par. 3, page 3 of the Descriptive Report.)

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done, except as follows:
  1. A number of excessively long solid-line leaders drawn between the position numbers and fixes in the congested inshore areas were revised to prevent the obscuring of soundings and the mistaking of leaders for piers.
  2. Several piers whose azimuths were in error were redrawn.
  3. Signal DCL was plotted out of position by the field party which resulted in the location of several sounding lines being in error. The location of the signal was revised and the sounding lines were replotted in the Washington Office.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

The survey is considered basic. However, attention is directed to the following:

- a. The charted submerged piling referred to in par. 6A3 above should be confirmed or disproved by either sweeping or wire-dragging the area.
- b. The shoal indicated on the present survey in the vicinity of lat.  $30^{\circ}14.80'$ , long.  $81^{\circ}38.95'$ , should be further developed to determine its least depth and extent.


H-8412 (1958) - 5

The accomplishing of the above-mentioned work was subsequently requested in Instructions for Project CS 407, dated 7 August 1958.

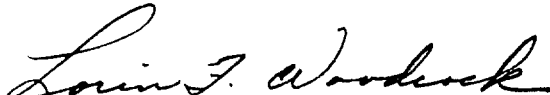
Examined and approved:

  
Max G. Ricketts

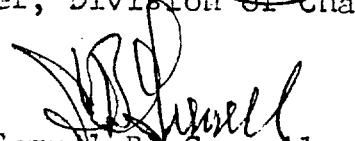
Chief, Nautical Chart Branch

  
Ernest B. Lewey

Chief, Division of Charts

  
Lorin F. Woodcock

Chief, Hydrography Branch

  
Samuel B. Grenell

Chief, Division of Coastal Surveys

# 8412

**Additional work**

Diag. Cht. No. 685.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. .... Office No. H-8412Ad.Wk.

### LOCALITY

State Florida

General locality Jacksonville

Locality St. Johns River

19 / 59

CHIEF OF PARTY

H. S. Cole

LIBRARY & ARCHIVES

DATE April 13, 1959

8-1870-1 (1)

# 8412

**Additional work**

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8412 Ad.Wk.

Field No. ....

State Florida

General locality Jacksonville

Locality St. Johns River

Scale 1:20,000 Date of survey 19-26 March, 1959

Instructions dated 22/MEK, dated 5 March, 1959

Vessel CS-168 and CS-183

Chief of party Howard S. Cole

Surveyed by A. G. Davis

Soundings taken by ~~echo sounder, beam echosounder, hull-mounted~~ 808 depth recorder

Fathograms scaled by Party Personnel

Fathograms checked by Party Personnel

Protracted by A. G. Davis

Soundings penciled by .....

Soundings in ~~fathoms~~ feet at MLW ~~XXXX~~ AND ARE TRUE DEPTHS.

REMARKS: .....

.....

.....

.....

.....

.....

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8412.Ad. Wk.

Records accompanying survey:

Boat sheets .1....; sounding vols. ..2...; wire drag vols. ....; bomb vols. ....; graphic recorder rolls .1-Envelope special reports, etc. ....1-Descriptive report & 2-Overlays.....  
 .....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	..89..
Number of positions checked	..89..
Number of positions revised	...0..
Number of soundings revised (refers to depth only)	...3... <i>from slope to straighten curves</i>
Number of soundings erroneously spaced	...0..
Number of signals erroneously plotted or transferred	...0..
Topographic details	Time ...0..
Junctions	Time ...0..
Verification of soundings from graphic record	Time ...2 hrs.

Verification by *A. Rose* ..... Total time *32 hrs.* Date *7-29-63*  
 Reviewed by *W. Jeslund* ..... Time *14* Date *1-29-65*

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

2 June 1959

Plane of reference approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 8412

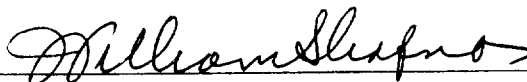
Locality Jacksonville, Florida

Chief of Party: H. S. Cole in 1959

Plane of reference is mean low water, reading  
3.4 ft. on tide staff at Ortega River Entrance  
7.2 ft. below B.M. 1 (1939)

Height of mean high water above plane of reference is 0.8 foot.

Condition of records satisfactory except as noted below:

  
Signature

Chief, Tides Branch

## Review of Additional Work 1959

### Survey H-8412

1. The additional work was accomplished in March 1959 in accordance with supplementary instructions 22/MEK dated 5 March 1959.
2. The additional work was accomplished
  - a. To confirm or disprove the existence of a submerged piling charted in lat.  $30^{\circ}15.98'$ , long.  $81^{\circ}39.95'$  from C.G. N to M 23, 1940. (See 1958 Review paragraph 6 A-3.)
  - b. To confirm or disprove the existence of a 10-ft. obstruction which was located on H-8412 in 1958 in lat.  $30^{\circ}14.74'$ , long.  $81^{\circ}38.85'$ . (See 1958 Review paragraph 6A-4.)
3. The results of the examination are as follows:
  - a. A marlin sweep and wire drag investigation disproved the existence of the submerged piling at the charted position. The feature should, therefore, be deleted from the chart.
  - b. The designation "obstruction" for the 10 ft. sounding located on the smooth sheet in lat.  $30^{\circ}14.74'$ , long.  $81^{\circ}38.85'$ , should be disregarded. Development of this area in 1959 failed to substantiate the existence of a feature with lesser depths. The 10 ft. sounding has been retained on the smooth sheet and the existence of the obstruction is considered disproved. The designation "obstruction" should be deleted from the chart.

The results of this additional work have been noted on the standard for chart 685.

Reviewed 1/29/65

I.M. Zeskind

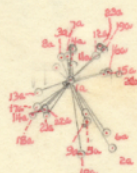
Inspected by R. H. Carstens



81° 41' 30" 17'

81° 40'

81° 39' 30"



PROJECT CS 808  
ECFP OVERLAY No. "1"  
BOAT SHEET H 8412  
Scale 1:20,000

30° 15'

81° 41'

81° 40'

81° 39'

30° 15'



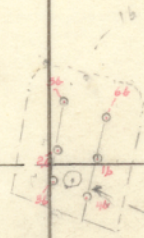
41'00"  
17'00"

81°40'00"

39'00"  
17'00"

16'00"

16'00"



Charted location  
of subm. piling

Project: 808  
ECFP Overlay No. "2"  
Boat Sheet H 8412  
Scale 1:20,000

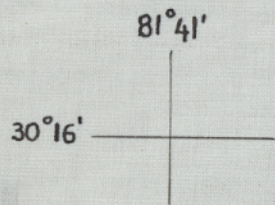
ESTIMATED Depth  
Cleared 13.0'

41'00"  
15'00"

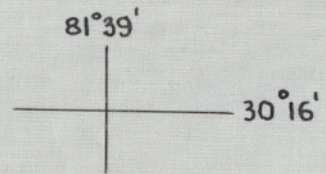
81°40'00"

39'00"  
30'15'00"



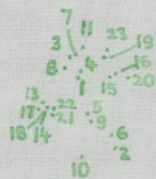
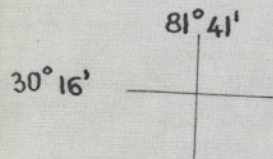


5b  
6b  
2b · 1b  
3b · 4b  
↑  
"sweep"

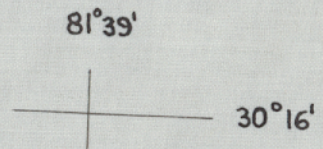


H-8412  
add. work (1959)  
Scale 1:20,000





"a" day

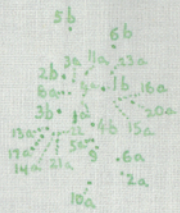


H-8412  
add. work (1959)  
Scale: 1:20,000



81°41'

30°16'



81°39'

30°16'

c s 183 - green

c s 168 - purple

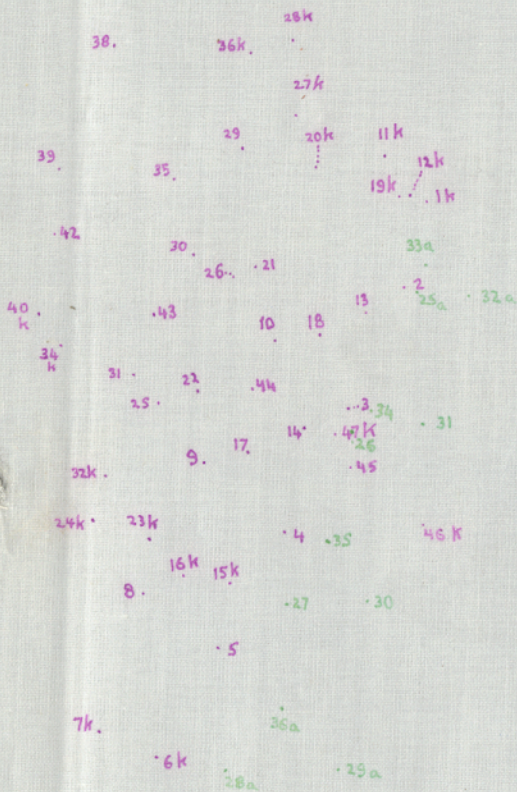
37k

H-8412 add. work (1959).

Scale: 1:20,000

0°15'

81°41'



30°15'

81°38'

81°40'

30°14'



