

6498

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic

Sheet No.

"J"

~~Hydrographic~~

T6498

State

FLORIDA

LOCALITY

FLORIDA KEYS

BAHIA HONDA TO BIG PINE KEY

1935-36

CHIEF OF PARTY

E. R. McCarthy

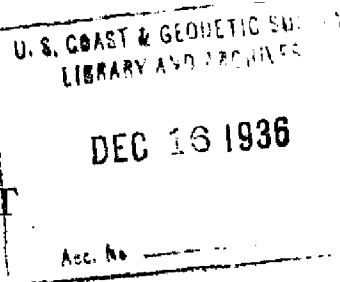
U. S. GOVERNMENT PRINTING OFFICE: 1934

6498

Graphic Center

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET



REG. NO.

The Topographic Sheet should be accompanied by this form,
filled in as completely as possible, when the sheet is for-
warded to the Office.

Field No. J

REGISTER NO. T6498

State FLORIDA

General locality FLORIDA KEYS

Locality BAHIA HONDA TO BIG PINE KEY

Scale 1:20,000 Date of survey July 1935
June-July 1936

Vessel PARTY NO. 14

Chief of party E.R. MCCARTHY

Surveyed by J.R. BROSNAN, P.A. WEBER

Inked by P.A. WEBER, J.J. GIORDANO

Heights in feet above H.W. to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November 17, 1933(H.A. Cotton), ~~xxx~~

Remarks: _____

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET NO. "J"

FLORIDA
BAHIA HONDA TO BIG PINE KEY

Party No. 14

E. R. McCarthy,
Lieut.(j.g.) C&GS,
Chief of Party.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. "J"

AUTHORITY:

Instructions of the Director dated November 17, 1933
(H.A.Cotton).

LIMITS:

Main line of keys from Bahia Honda to the east shore
of Big Pine Key and keys in bay area north to Latitude
24° 47'.

CONTROL:

Control for the sheet consisted of a number of stations
of the 1935 triangulation scheme well distributed over the
entire area.

Station "W. Bahia, ^{Honda} 3" 1920 was connected to the 1935
computation by means of factors obtained by comparing several
stations of the 1920 and 1935 schemes. (see "MISCELLANEOUS"
for values).

METHODS:

All signals located by means of graphic triangulation
excepting some signals in the vicinity of Spanish Harbor
Viaduct, Buttonwood Strips, and Water Key which were located
by three point fixes.

GENERAL DESCRIPTION OF THE COAST AND KEYS:

Keys to the northeast of Little Pine Key are low mud and
rock formation with thick mangrove growths.

No Name Key is low, of mud and rock formation, and with
hammock land in central and north section, mangrove fringed
on all sides except the south which is a mangrove swamp, with a
few inhabitants on the west shore south of the highway, and also
on the east shore at the ferry slip.

GENERAL DESCRIPTION OF THE COAST & KEYS:(CONTINUED)

Big Pine Key is similar in formation to No Name Key except that it is higher land, fringed with mangroves, and covered with scrub pine growth. This key is inhabited on the east shore south of the highway.

Little Pine Key is mud and rock formation with hammock land in the interior and mangrove fringed on all sides.

Don Quixote and Big Mangrove Keys are low, mud formation and covered with thick mangrove growths.

Porpoise Key is low, of mud formation, and there is some scrub growth. The east section is open and covered at extreme high water.

Bahia Honda Key is low, of rocky formation with some scrub growth and has a lagoon in center along the south shore.

Spanish Harbor Keys are low, of rocky formation, and with some scrub growth. There is an abandoned fish house on the key and also a squatter's family.

SETTLEMENTS:

There are no settlements worthy of the name. No Name Key is inhabited as stated above. The habitation on Big Pine Key is known locally as Big Pine Shark Camp, formerly a shark fishing camp now occupied by several families.

Spanish Harbor Keys is inhabited as stated above.

OVERSEAS HIGHWAY:

The conversion of the railroad into a highway has been started at Lower Matecumbe and it is reported that work will commence at the eastern limits of the sheet in the near future.

It is also reported that the highway will follow the railroad over the Bahia Honda Bridge and Spanish Harbor Keys to Big Pine Key at the western limits of the sheet.

GEOGRAPHIC NAMES:

Names inked on the sheet are names shown on the present chart which were verified by the field party.

The conversion factor of -22.5
 -08.7 is incorrect
The adjusted values for N.A. 1927 datum
are now available and the conversion
factor from M.A. to N.A. 1927 for
Reference Station Bahia Honda 3, 1935
is -26.6 m in latitude and -8.6 meters
in longitude.

The N.A. Datum has been added
in red on T6498. The adjoining
graphic control surveys were made
on N.A. Datum.

8

GEOGRAPHIC NAMES: (CONTINUED)

Names in pencil are well established locally and are covered by a special report submitted with the hydro sheet of this area.

LANDMARKS:

Landmarks for the sheet have been submitted as have aids to navigation. A copy of landmarks and aids to navigation are attached.

MISCELLANEOUS:

The sheet is on North American 1927 Datum. The following conversion factors to North American were used:

North American 1927 to North American:

Lat. \mp 22.5 meters
Long. - 08.7 "

~~X see below opposite page.~~

W.H.Bainbridge N.A. to E.R.McCarthy N.A.:

Lat. \mp 01.6 meters
Long. \mp 11.0 "

~~See Review at back~~

N.A.(1920 work) to N.A. (1935 work):

Lat. 00.0 meters
Long. \mp 08.3 "

The horizontal clearance on Bahia Honda Bridge was not measured but is ample for any boat capable of passing under it.

Respectfully submitted:

P.A. Weber

P. A. Weber,
Topographer.

Approved & forwarded:

E.R. McCarthy
E. R. McCarthy,
Lieut.(j.g.) C&GS,
Chief of Party.

~~* This conversion factor is in error. The conversion should be approximately:~~

~~Lat. + 26.6
Long. + 08.4~~

~~The final values for all stations on the N.A. 1927 datum have not as yet been completely computed in this vicinity.~~

~~T.M. Price
Wash. D.C., Jan. 1938~~

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

TO BE CHARTED }
~~TO BE DELETED~~ } STRIKE OUT ONE

TOPOGRAPHY

May 1930, Fla. Dec. 8, 1931

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

The positions given have been checked after listing.

D. R. McCarthy

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED

STRIKE OUT ONE

LANDMARKS FOR CHARTS

AIDS TO NAVIGATION

TOPO SHEET "J"

Key West, Fla.

Dec. 8

1935

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

The positions given have been checked after listing.

D. H. McCarthy

Chief of Party.

GENERAL LOCALITY		Florida Keys		POSITION							DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
NAME AND DESCRIPTION				LATITUDE		LONGITUDE			METHOD OF LOCATION	DATUM					
				°	'	D. M. METERS	°	'							
Cerrion Key Bn. 13				24	41	74	81	14	624	N.A.	Triang.	1935			1251, 8261
Bahia Honda Bn. 10				24	40	1620	81	25	1115	"	"	"			" "
Little Pine Key Bn. 12 (22)				24	41	820	81	16	1189	"	"	"			" "
Little Pine Key Bn. 14 (24) *				24	42	1565	81	19	873	"	"	"			" "
Little Pine Key Bn. 26				24	43	526	81	20	57	"	Topo	1936			" "
Berry Bn.				24	42	36	81	17	949	"	Triang.	1935			" "
Crawl Key Bn. 18 (28) *				24	44	1678	81	31	747	"	Topo	1936			" "
Little Spanish Key Bn. 20 (30)				24	45	682	81	22	609	"	"	"			" "
Porpoise Key Bn. 1				24	42	1514	81	20	1021	"	"	"			" "
Porpoise Key Bn. 2				24	42	1640	81	21	199	"	"	"			" "
* Shown incorrect on list submitted Sept. 1, 1936. Above is correct position.															
Note: Number in parenthesis is new number.															

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~MOON~~

No. T -6498

received Dec. 11, 1936
registered Dec. 17, 1936
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green
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REVIEW OF GRAPHIC CONTROL SURVEY T-6498, SCALE 1:20 000,

Date of Review

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5543, T-5544, with particular attention to the following details:

- (a) Projection has been checked in the Field. *see below*
- (b) Accuracy of location of plane table control points.
- (c) Discrepancies between detail on this survey and the air photo compilations listed above.
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T- , for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

1. Station west Bohia Honda 3 is plotted in error on T6498 by 08 meters in long. and 18 meters in lat.

2. The projection used on T6498 in the field is not true N.A. 1927 datum as stated on the sheet. The North American Projection has been added to T6498 in use. The application of T6498 to the Hydrographic surveys in this area and to the air photographic surveys has not been affected by the ~~error~~ original projection on T6498 having been ~~erroneous~~ erroneously called North American 1927. The Block Projection on T6498 should be disregarded.

The adjusted values for N.A. 1927 positions of triangulation in this area are now available and the correct N.A. 1927 projection datum can be plotted on T6498 if needed.

B.G. Jones