11172

Diag. Cht. No. 1251.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-5805 Office No. T-11172

LOCALITY

State Florida

General locality Key West

Locality Key West Harbor

1957

CHIEF OF PARTY

L.W.Swanson, Div. Of Photo. Wash.,D.C.

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11172

DATA RECORD

T - 11172

Project No. (II): PH-5805 Quadrangle Name (IV): Key West Harbor

Field Office (II): Chief of Party:

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 12 August 1958 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Manuscript Scale (III): 1:5,000 Stereoscopic Plotting Instrument Scale (III): 1:5,000

Scale Factor (III): 1.0

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 4 august 1959

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N A 1927 Vertical Datum (III):

Mean sea-level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): Key West Lighthouse, 1849

Lat.: 24° 33' 00.630"(19.4 m) Long.: 81° 48' 03.860" (108.6m) Adjusted ~~Unadjusted~~

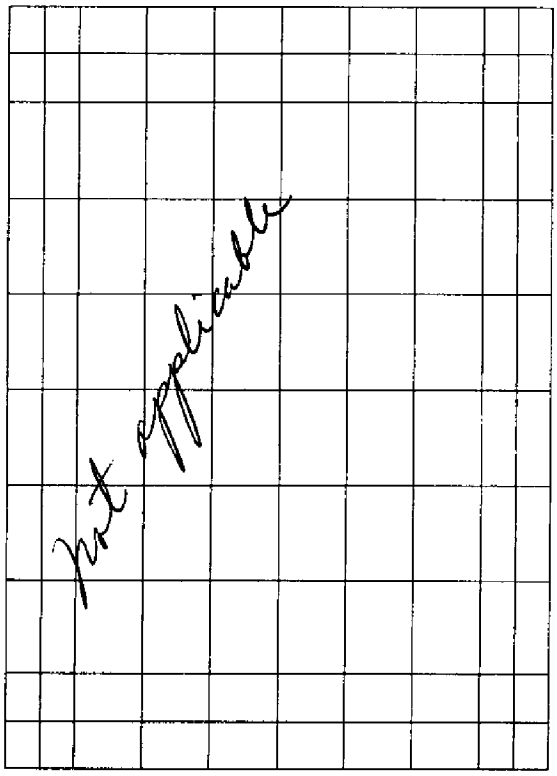
Plane Coordinates (IV): State: Florida Zone: 2

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): None Date:

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

Date of photography - office interpretation

Projection and Grids ruled by (IV): P. Dempsey Date: 8-12-58

Projection and Grids checked by (IV): R. Shoup Date: 8-12-58

Control plotted by (III): F. Lampton Date: 8-18-58

Control checked by (III): W. Kuncis Date: 8-26-58

Radial Plot or Stereoscopic Control extension by (III): F. Lampton W. Kuncis Date: Aug-Sept 1958

Stereoscopic Instrument compilation (III):

Planimetry F. Lampton W. Kuncis Date: 9-9-58

Contours Date:

Manuscript delineated by (III): Date:

Photogrammetric Office Review by (III): K. N. Maki Date: 9-10-58

Elevations on Manuscript checked by (II) (III): ---- Date:

M-2618-12(4)

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
57 S 7229	30 Dec 1957	13.04	1:24,000	0.7' above MLW
7230	"	13.05	"	"
7231	"	13.05	"	"
57 S 7148	"	12.07	10,000	0.6' above MLW
7149	"	12.07	"	"
7150	"	12.07	"	"

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
	1.3	1.6

Reference Station: Key West, Florida
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): W Streifler Date: Aug. 1959

Final Drafting by (IV): Date:

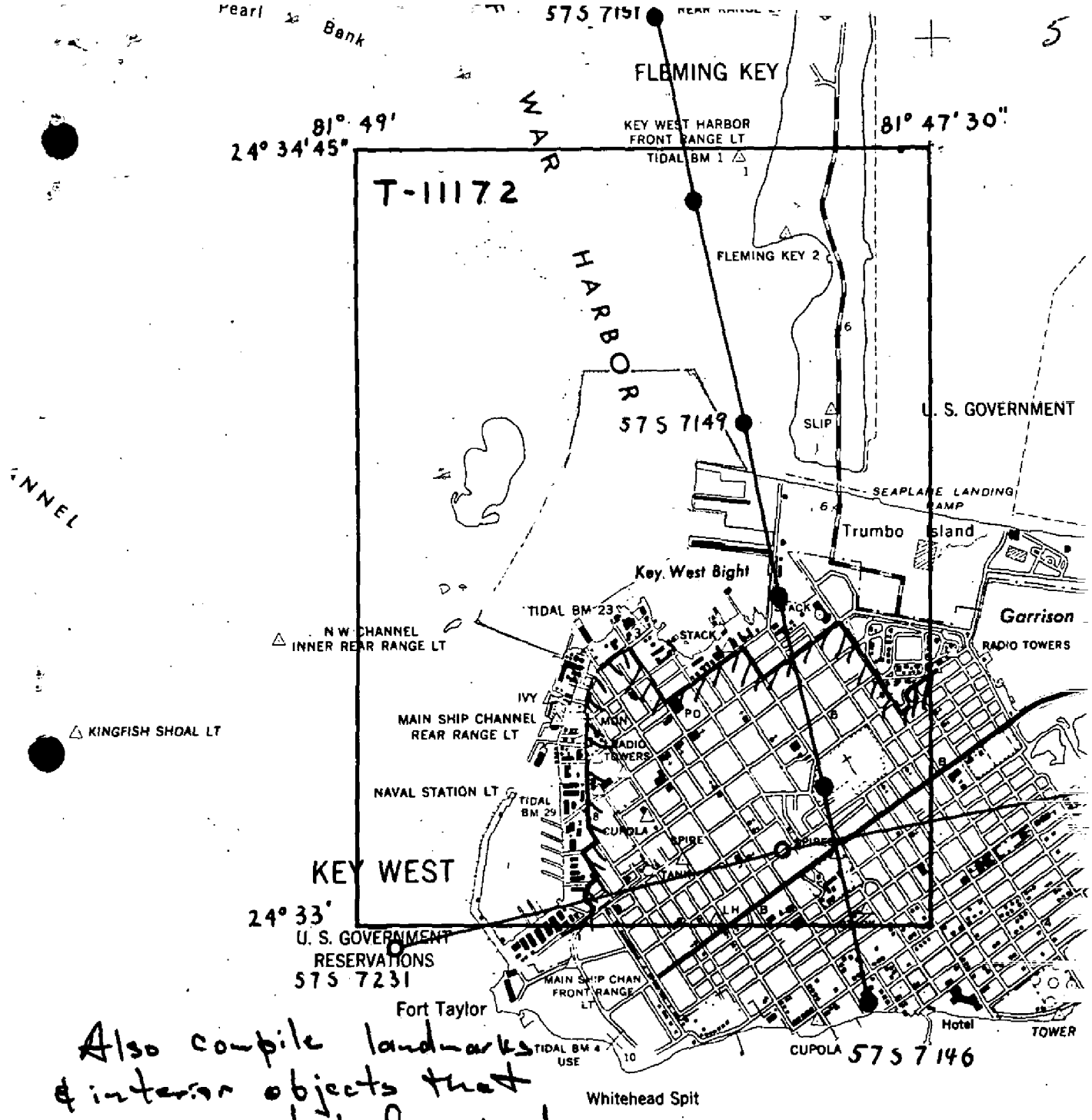
Drafting verified for reproduction by (IV): W Streifler Date: Aug. 1959

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified:
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

M-2618-12(4)



Also compile landmarks & interior objects that will be useful for hydro

HRB

PH-5805

KEY WEST HARBOR

1:5000 SCALE SHORELINE MAPPING

O - 1:25,000 SCALE SINGLE LENS PHOTOGRAPHY

● - 1:10,000 SCALE SINGLE LENS PHOTOGRAPHY

//// INSHORE LIMIT OF COMPILATION

Summary

to accompany shoreline manuscript T-11172

Subject survey originated with a request by the Navy for a hydrographic survey along the channel area west of Key West Bight, which is located in the northwest corner of Key West, Florida. To furnish the hydrographic party with helpful basic information, T-11172 was compiled in Aug. & Sept. 1958 from photography of Dec. 1957, to precede the hydrographic survey.

This shoreline manuscript covers the west shore of Key West, Florida, the southern half of Fleming Key and islands of Spoil northwest of Key West. It represents an area of 1 3/4 minutes of latitude and 1½ minutes of longitude at the scale of 1:5000.

T-11172 was compiled in the Washington Office on the Kelsh plotter without benefit of field inspection and utilized advantageously in subsequent hydrographic survey. The two surveys are in good agreement.

A cronar film positive at the compilation scale and the Descriptive Report will be registered and filed in the Bureau Archives.

August 1959

Photogrammetric Plot Report
T-11172
Key West Harbor, Florida PH-5805
Scale 1:5000
September 1958

21. AREA COVERED

T-11172 covers the northwestern part of Key West, Florida and its harbor area and the south portion of Fleming Key.

22. METHOD

A stereo bridge was not required. Two individual models of 1:30,000 scale photography were set in the Kelsh plotter on field identified control and on points obtained from bridging data for the Florida Keys Project PH 5703.

Model 57 S 7230 - 7231 was set up first. Control stations held were:

Key West Naval Station Tank, 1956
Key West Court House Water Tank, 1943
Key West Naval Radio Mast North, 1917
Key West Light House, 1849
PH-5703 bridge point numbers 0907, 0908, 0921, 0922, 0923

Model 57 S 7229 - 7230 was set up next and held to the points dropped from the first model and the following triangulation stations:

Key West Dept. of Comm. West Radio Mast, 1943
Key West Lighthouse, 1849

23. CONTROL

Horizontal control was adequate. All control stations were held.

24. SUPPLEMENTAL DATA

The only supplemental data used was the bridging data for the Florida Keys Project PH-5703.

25. PHOTOGRAPHY

The photography was adequate.

Approved

Morton Keller

Submitted

Willard A. Kuncis

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11172 PROJECT NO. PH-5805 SCALE OF MAP 1:5,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Key West Naval			79,172.14							
Sta. Tk, 1956			231,600.78							
Key West, Ct. Ho.			80,828.67							
Water Tk, 1943	p.188		232,667.52							
Key West Naval Radio Mast North			81,820.24							
1917	p.105		231,997.24							
Key West,			79,565.60							
LightHouse, 1849	p.81		233,732.11							
Key West, Dept. Comm			78,756.37							
West Radio Mast,	p.188		238,298.27							
1943										

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: DATE CHECKED BY: DATE

COMPILATION REPORT T-11172

31. DELINEATION

T-11172 was compiled on the Kelsh plotter.

32. CONTROL

Horizontal control density and distribution was adequate.

33. SUPPLEMENTAL DATA

None

35. SHORELINE AND ALONGSHORE DETAILS

Delineation of shoreline was accomplished without benefit of field inspection. Much of the shoreline is vertical bulkhead and pier line and its position is accurate. Beach shoreline should be very close to correct datum since the small tide range mimimizes problems of interpretation.

Shoal lines and shallow area that have been shown are based on office interpretation.

All the larger and the more prominent buildings adjacent to the shoreline and in some instances some of the structures further inland from the shoreline were shown.

36. OFFSHORE DETAILS

An unknown object, square in outline, is shown at approximately 24° 33.9' and 81° 48.8'. It may be an installation or possibly a wreck and requires field verification.

37. LANDMARKS AND AIDS

A Form 567 was not submitted for any aids in the map area. Reference is made to Form 567 for R.S.-619, Project PH-5703 filed in the Division of Charts, Nautical Chart Branch.

38. CONTROL FOR FUTURE SURVEYS

Photo-hydro signal sites were located by office interpretation. They generally are easy to recover pier corners, building corners, gables and lone trees. A list of these signal sites is attached to this descriptive report.

39. JUNCTIONS

There are no contemporary surveys for matching junctions.

40. HORIZONTAL ACCURACY

Refer to attached Photogrammetric Plot Report

46. COMPARISON WITH EXISTING MAPS

T-5546 1:20,000, 1935
T-8490 1:20,000, 1943
Key West Corps of Engineers quadrangle, scale 1:24,000 1943

A comparison has been made between T-11172 and the above listed maps. Some differences occur in shoreline as for example Key West Bight.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 576, 1:10,000 corrected to 4/21/58.
The object mentioned under item 36 is not on the chart although the chart does show a wreck slightly to the north which is not indicated on the map manuscript.

Items to be Applied to Nautical Charts Immediately

None

Items to be Carried Forward

None

Approved

Morton Keller
Morton Keller

Submitted

Willard A. Kuncis
Willard A. Kuncis

PHOTO-HYDRO STATIONS
T-11172
Key West Harbor, Fla. PH-5805

7201 NE corner bulkhead

7202 Inside corner bulkhead

7203 SE corner small projecting bulkhead

7204 NE corner pier

7205 NE corner pier

7206 SW corner pier

7207 SW corner pier

7208 SW corner pier

7209 Peak of gable

7210 SW corner pier

7211 SW corner bulkhead

7212 Peak of northerly of two gables

7213 SW corner bulkhead

7214 Peak of gable of northerly and smaller of two buildings

7215 NW corner bulkhead

7216 NE corner building

7217 NE corner building on bulkhead

7218 NE corner pier

7219 N corner small building

7220 N corner building on bulkhead

7221 NW corner building on pier

7222 NE corner building on pier

7223 SW corner building

7224 Inside corner pier and bulkhead at E side of pier

7225 SE corner pier

7226 NW corner building

7227 NW corner building

7228 SW corner building

7229 Center of flat top of mound (pyramid)

7230 NW corner building

7231 NW corner bulkhead

7232 Tree near shoreline

7233 W'ly of twin trees

7234 N'ly of three trees in line

7235 Lone tree on narrow beach of small vegetation covered point

7236 West tip of inshore abandoned barge lying NE-SW. Western most tip of the two abandoned barges

7237 Intersection of bulkhead and south edge of pier

7238 Center of round tree east of larger tree

7239 Tree at shoreline on N end of rounded point

T-11172. Geographic Names

Key West Harbor	(for title of sheet)
Fleming Key	
Florida	(for title)
Key West	(city)
Key West Bight	
Man of War Harbor	

Names approved 7-30-59
L. Heck L. H.

Review Report of
Shoreline Manuscript T-11172
Aug. 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

302	1:20000	1850
2648	1:5000	1904
2850	1:15000	1908
3829	1:15000	1920
5546	1:20000	1938
8490	1:20000	1943

Key West has changed considerably over these many years and only the surveys of 1938 and 1943 bear any semblance to the present condition. Minor changes only were noted between T-8490 and subject survey. T-11172 is to supersede previously registered topographic surveys of common area for nautical charting purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

KEY WEST, FLORIDA, 1:25000 Ed. of 1955, Army Map Service

This topographic quadrangle is based on topographic survey No. 8490 of 1943 (listed under item 62) and is accurate as of that time only.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

F. E. No. 5, 1958 1:5000

Subject survey precedes this Field Examination Sheet and served in its' construction. The two surveys are in good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

576	1:10000	Revised to 4/21/58
584	1:30000	" " 2/16/59
1251	1:80000	" " 5/4/59

There are some shoreline changes in the spoil areas west of KEY WEST BIGHT, along FLEMING KEY and a few minor ones along the west shore of KEY WEST. It is recommended, that these be considered for the next printing of chart 576, and possibly chart 584.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey was compiled in accordance with project instructions and though based on office interpretation only, it is within the requirements of adequacy and accuracy for this type of survey.

Reviewed by:

Josef J. Streifler

Josef J. Streifler

Approved by:

L C Lande

Chief, Review & Drafting Section
Photogrammetry Division

Chief, Nautical Chart ~~Branch~~ ~~Charts Division~~ Division

J E Waugh 1/27/64

Chief, Photogrammetry Division

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11172

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
854	4/18/68	W H Hall	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. Exam No correction at this time
576	4/9/69	J.S. Stuart	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. Exam - No Correction.
854	2/2/70	J.S. McMillan	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 10 - Consider Fully Applied
			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
			Drawing No.
			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-975