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56-57

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

U. S. COAST AND GEODETIC SURVEY

L. & A.

JUN 21 1930

Acc. No.

State: Florida

DESCRIPTIVE REPORT

Air Photo

Topographic

Hydrographic

Sheet No. 4462a

LOCALITY

East Coast of Florida

Palm Beach to Lantana

19 29

CHIEF OF PARTY

O. S. Reading

U. S. GOVERNMENT PRINTING OFFICE: 1928

DESCRIPTIVE REPORT TO ACCOMPANY
AIR PHOTO TOPOGRAPHIC SHEET.

No. 4462a - Palm Beach To Lantana, East Coast, Florida.

This is a compilation of a single strip of air photographs, numbers 477 to 499, (third roll) direction of flight to northward, taken with Army Air Corps 4 lens camera No. 28.-1. These photographs were taken on April 20, 1928; No. 477 being taken about 4:30 P. M. and No. 499 at about 4:55 P. M. about two hours before a minus low tide as obtained from the predicted tide tables. A Loening Amphibian plane was piloted by Lieutenant J. A. Dexter at a height of approximately 10,000 feet, giving an average scale of about 1:18600 to the photographs.

LIMITS OF SHEET No. 4462a.

This sheet includes the area from the coast to about 5 miles inland, at the western edge of the single photographic strip, and from one mile South of Lake Worth Inlet to about one-half mile south of the south end of Hypoluxo Island.

CONTROL.

In addition to the photographic control sheets numbers 4458b and 4462b, Okeechobee Road ~~was~~ (located by means of traverse stations run along that road in 1913) and three roads from two to seven miles apart, which extend in an easterly and westerly direction across the sheet, were used for control. Solar azimuths of these roads were obtained with the theodolite. The azimuths of railroads and roads crossing them were determined by sextant angles. The lengths of these roads and distances between cross-roads etc., were determined by steel tape measurements and are shown with red circles on the photo topographic sheet. The northern road was tied to a topographic signal, the other two roads to triangulation stations--High Water Tank, Lake Worth, and Lantana W. T.

COMPILATION.

A projection was laid on the celluloid sheet to the average scale of the photographs as determined by a preliminary radial plot. Photostats of topographic sheet No. 1849 and topographic photo control sheets numbers 4458b and 4462b were made to this scale. The shoreline from the photostats of the topographic control sheets was traced in black ink, from the other photostats in blue ink on the celluloid sheet. A radial line graphic traverse

was then plotted holding to this control. The remaining features of the photo topographic map were obtained by adjusting between the point determined by the radial plot.

This sheet was prepared from two photographic negatives, the junction line of which is shown on the sheet in pencil.

CHANGES.

In general the agreement between the photographic sheet and the old topographic sheet No. 1649 was very good. The differences that were found were due to dredging and filling which occurred in the expansion and development of towns in this vicinity.

A hurricane swept this part of the country since the air photographs were taken, which caused numerous changes in the shoreline and wharves. The ocean shoreline throughout this sheet, the shoreline in Lake Worth Inlet from the northern limit of the sheet to the North Bridge were run in with the planetable in 1929 on the photo control sheets 4458b and 4462b. This 1929 shoreline was used in the compilation of the photo topographic sheet.

NAMES.

The names appearing on this sheet are taken from the topographic photo control sheets numbers 4458b - 4462b and the printed charts of that locality.

SYMBOLS.

The standard topographic symbols were used together with the following special symbols in order to bring out the topographic character of the locality;- a single full line for a ditch, a double full line for all improved, graded and paved highways and streets, a double dashed line for all unimproved but graded roads, and a single dashed line for trails.

The culture was noted on the photographs from the principal highways and the roads traversed during a limited field inspection. At inaccessible places the culture was interpreted in the office from the similarity noted to that obtained from the field inspection.

LANDMARKS FOR CHARTS.

The landmarks for charts will be found in the descriptive report of the topographic photo control sheets numbers 4457b and 4458b and chart letters numbers 177 and 1930.

Respectfully submitted,

Walter J. Chovan

Walter J. Chovan.
Jr. H. & G. Engineer.

Approved:

O. S. Reading

O. S. Reading,
Chief of Party,
Coast and Geodetic Survey.

APPROVED

K. T. Adams
FIELD RECORDS (C)

J. S. Borden

Chief, Section Field Work

L. O. Robert

Chief, Division of Charts

G. W. Hude

Chief, Div. of Hyd'y and Top'y

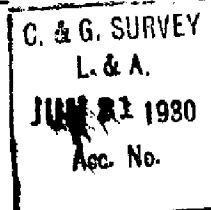
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

44622

TOPOGRAPHIC TITLE SHEET

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



Field No. _____

REGISTER NO. 4462 a

44622

State _____ Florida _____

General locality _____ East Coast _____

Locality _____ Palm Beach to Lantana _____

Scale 1:20,000 _____ Date of survey April 20, 1928 _____

Vessel Army Air Corps Amphibion Plane piloted by Lieut J. A. Dexter _____

Chief of Party _____ J. B. Reading _____

Surveyed by _____ W. J. Chovan _____

Inked by _____ W. J. Chovan _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____ June 6, 1929 _____

Remarks: Compilation of four lens air photographs Nos 477 to 499

Reduced to 1:20,000 and printed by photolithographic process

in Printing Section.

GPO

4462b

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton....., Director

C. & G. SURVEY

L. & A.

NOV 29 1929

Acc. No.

State: Florida

DESCRIPTIVE REPORT

Topographic

Hydrographic

Photo Control

Sheet No. 1

4462b

LOCALITY

East Coast

~~Palm Beach to Gulf Stream~~

Lake Worth Inlet to Town of

Gulf Stream

192 9

CHIEF OF PARTY

R. L. Schompe - Charles Shaw

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

to accompany

Photo Control Sheet No. 1

Florida 1929

This work was done under instructions dated December 27, 1928 Par. 10 to 14 inclusive. These instructions were modified by additional instructions given by Commander Parker while on an inspection trip in Florida, February 23, 1929.

Limits:

The work on this sheet extends from Lake Worth Inlet Lat. 26° 47' Long. 80° 02' south to the town of Gulf Stream at Lat 26° 29', Long 80° 03', and includes an insert of Lake Worth Inlet.

General description of coast:

The entire stretch of coast is a low sandy beach fringed with a growth of palmetto, sea grapes and palm trees. The country in back of the beach is mostly wooded. Conspicuous from seaward are many new buildings that are not shown on the present charts. Practically all the buildings, water tanks and prominent objects were located by triangulation cuts and are described in the triangulation report. Many of these objects are used for photo control so I will describe them here.

Photo Control:

The photo control points on this sheet were selected as the most easily distinguished and were marked and numbered on the photographs. These points selected with these descriptions were looked over by Mr. Reading while in West Palm Beach and he expressed himself as satisfied with the work. As an additional safe guard points located by triangulation were added. These points labeled a, b, c, etc., are not marked on the photographs because the photographs were turned over to Mr. Reading while in Florida.

Control and method:

This survey was made directly after the traverse had been run, and the traverse stakes were still in place. All triangulation stations, traverse stations, (main scheme and A stations) were plotted on the sheet before the work began). As the distances between traverse stakes were all known rod readings between traverse stakes served as a check. The plane table was set up over traverse stakes in most cases and additional information for photo control rodded in. As the stakes in place served as a check on the work as it progressed, no closing errors were attained. ~~Now~~ Azimuths of roads were determined a careful check was made of all readings.

Signals for the hydrography were built mainly over traverse stakes, where the stakes for any reason were not suitably located, a new spot was located by a rod reading.

Description of point and object located.

Point No. Marked on
Photo. No.

- | | | |
|----|---------------|---|
| 1 | AC-26-1A-F494 | Centerl line of Ocean Drive Palm Beach,
Street parallerling ocean. |
| 2 | " | N. curb of Palm Drive from ocean drive W. and
intersection with first cross street. |
| 3 | " | Rainbo Pier, also two wireless towers built
on pier. |
| 4 | " | S.E. corner of street (running E & W) at tall
light colored wall. |
| 5 | AC26-1A-F493 | Cupola red tile roof on large house. Point
marked on photograph. |
| 6 | " | Cupola on Hutton house. This a very tall
cupola with two chimneys on N side. Located by
triangulation cuts. |
| 7 | " | Two white towers on bath & tennis club, one
on the N end and one on the S. end. Bath have
flag poles at center. |
| 8 | AC26-1A-F492 | Center of tallest cupola on Boulton estate
situated 2/3 the of way to south end of house. |
| 9 | AC26-1A F491 | Center cupola on light colored house. Cupola
about center of house. |
| 10 | AC26-1AF489 | Center of top of cupola on SE of North of two
houses. |
| 11 | AC26-1AF486 | Flagpole on cupola (white house) on Lake Worth
Casino. On NE corner of bldg. (triang. cuts) |
| 12 | AC26-1AF481 | A stretch of road roddeed on both sides. |
| 13 | " | Alling estate tower on SE corner of house,
(triangulation cuts) |

- | | | |
|----|-------------|--|
| 14 | AC261AF478 | Plan of S. Lake Worth Inlet, break waters bridge and road located by plane table traverse. (triangulation cuts). |
| 15 | AC261AF476 | Cupola center of Boynton Casino. Both sides and front of building located by traverse. |
| 16 | " | Cupola, center, front of large white house. |
| 17 | " | N. E. corner of red roofed house on H. W. mark. |
| 18 | AC26-1AF475 | N. E. corner of small yellow house on H.W. mark. |
| 19 | AC26-1AF474 | S. E. corner of large grey house. |
| 20 | AC26-1AF473 | Sections of road located by traverse. |
| 21 | AC26-1AF472 | N. E. corner of white house. |
| 22 | " | S. E. of house tile roof. |
| 23 | " | Black water tank Gulf Stream 100 meters W. of beach road about 300 meters W. of beach. |
| 24 | 11C50 | Gulf Stream Golf Club large white building, red tile roof. Front and sides visible from sea located. |
| 39 | | Boynton water tank. Small black water tank with conical top. |

Additional points located by triangulation that may be located on the photograph if needed.

- | | |
|---|--|
| a | L. water tank, low dull black water tank in Lake Worth slightly north of the street leading to L. W. Casino (triang.) Cuts) |
| b | High black water tank in N. W. part of town of Lake Worth. (triang. cuts) |
| c | Small black water tank near the lake and south of Gulf Stream Hotel in Lake Worth. Tank is approx. between gulf stream hotel and Lantanna (Triang. cuts) |
| d | Large silver water tank in Lantanna, only tank in village. (triang. cuts) |

- Stand pipe, large, galvanized iron standpipe near pumping station in S. W. part of Palm Beach with conical top. (triang. cuts)
- f Center of cupola on S. tower of Breakers Hotel in Palm Beach. (triang. cuts)

The insert survey of Lake Worth Inlet was made simply as a check on the hydrographic signals transferred from the topographic sheet of the NATOMA. When the survey of the harbor was started the signals did not seem to check properly, due either to a mistake in transferring from the NATOMA's topography or a mistake in location. As the NATOMA had left at this time this sheet was used to relocate the signals for hydrography.

The photo control sheet from inlet to Lake Worth Casino was surveyed by B. H. Rigg. As was the insert of Lake Worth Inlet. From Lake Worth Casino to the end of the sheet was surveyed by M. E. Wennermark.

B. H. Rigg
Respectfully submitted,
B. H. Rigg

approved and forwarded
Charles Shaw
Chief of Party
Andry Ship Ranger
Norfolk, Va.,
Nov 26, 1929

HYDROGRAPHIC SIGNALS
LOCATED ON
PHOTO CONTROL SHEET No. 1

Name	Latitude	Meters	Longitude	Meters
Die	26 46	12	80 02	470
Sat	45	1669		461
Fish		1211		385
Sheet		817		352
North	45	364		297
Wall	44	1573		247
Ell		888		212
Tool		480		196
Bulk	44	221		184
Tile	43	1629		324
Ban		1316		184
Nan		964		151
Pale	43	578		136
Fly	42	1197		10
House		859	02	35
Dan		402	01	1658
Out (Offshore WT)		70		1524
End		68		1399
Inshore W.T.		68	01	1618
Gus	41	1450	02	21
Jo		990		46
Fin		667		75
Post	41	244		161
Bay	40	1715		190
Hut		1141		376
Hide		431		274
Spy	40	122		387
Net	39	1801		295
Stuc		1330		354
Nab		863		343
Roof		433		360
Coco	39	67		392
Der	38	1459		380
Boy		958		418
Tan	38	477		412
Zar	37	1825		403
Ras		1373		379
Alice		853		364
Gyp	37	368		361
Wind	36	636		364
Tab	36	241		366
Pill	35	1628		369
Sam		1180		390
Raw		725		409
Jef		280		432
Flag	35	71		462
Pam	34	1390		492

Name	Latitude	Meters	Longitude	Meters
Wave	26° 34'	281	80° 02'	592
Mix	33	1828		636
Tree		1402		763
Pile		860		849
Fly	33	421		900
Old	38	1821		949
Top		1335		1028
Tip		796		1157
Shackle		450		1262
Shoe	32	290		1269
Bluf	31	1703		1370
Cas		1346		1437
Cup		1044		1475
Ho		848		1461
Red		647		1508
War		315		1534
Yel	31	9		1587
Yew	30	1356	03	0
See		831		110
Roc	30	382		151
Tel	29	1825		216
Gov		1673		250
Chim		1103		350
Brow		851		352
Club	26 29	393	80 03	428

signals scaled from sheet work has not been checked.
 many of the above have been computed in traverse computations.

LAKE WORTH INLET

Name	Latitude	Meters	Longitude	Meters
Bit	26° 46'	288	80° 03'	97
Bot		1320		128
Cat		549	02	741
Dol		139		1539
Kid		711		196
Met		824		575
Oil		584	03	259
Rear		98		312
So		1796	02	1232
Vent		137	03	101
Lighted Beacon		200	02	1531
Red Nun Buoy		294		1488
Black Can Buoy		641	01	1390
Red Gas Buoy		688		927

Respectfully submitted,

Benjamin H. Rigg

Benjamin H. Rigg,
Jr. Hydrographic & Geodetic Engineer,
U. S. Coast and Geodetic Survey.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

PHOTO CONTROL SHEET No. I

(In pencil only)

REG. NO. 4452b
U. S. COAST AND GEODETIC SURVEY
L. & A.
NOV 29 1929
Acc. No.

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

Field Letter 1

REGISTER NO. 4462b

State Florida

General locality East Coast of Florida

Locality Beach Lake Worth Inlet to Town of Gulf Stream
~~Palm to Gulf Stream~~

Scale 1:20,000 Date of Survey April 1929, 19

Vessel RANGER

Chief of Party R. L. Schoppe

Surveyed by M. E. Wennermark

Inked by _____

Heights in feet above _____ to ground to tops of trees

Contour Approximate contour Form line interval _____ feet

Instructions dated December 27, 1928, Feb. 23, 1929 19

Remarks: One insert signals for Lake Worth Inlet.