

4759

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

Oct. 4 1933

Acc. No.

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Hawaii

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No. M₂

4759

LOCALITY

Makapuu Point and vicinity

Oahu Island, Hawaii.

1931

CHIEF OF PARTY

Hubert A. Paton

U. S. GOVERNMENT PRINTING OFFICE: 1928

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

DESCRIPTIVE REPORT

to accompany

SHEET M₂

Makapuu Point & Vicinity

INSTRUCTIONS:

The work on this sheet was done in cooperation with the U. S. Army, and in accordance with verbal instructions from the Department Engineer, Hawaiian Department, and his representatives. They wished to expedite the work as much as possible, and wished for a development of possible landing places for troops. This area had been surveyed in 1928 by Lieut. E. R. Hand (see Sheets #4377 and #4378). Photostats of these sheets were furnished this party, but on account of the distortion, the signals could not be transferred accurately. Accordingly, the current survey party re-located all signals and also the waterline.

METHODS & EQUIPMENT:

Standard Coast Survey methods were used. The usual plane table equipment was employed. The field work was executed by Sgt. L. A. Wirtz, of the U. S. Army, after suitable training by the undersigned.

CLOSING ERRORS:

The traverse from Triangulation Station Blow to Triangulation Station Cove had a closing error of one meter.

From Triangulation Station Cove to Signal END, the traverse could not be tied in with any station without expending more time than the Army desired.

On Hydrographic Sheet #4830, a small area one-half mile west of Makapuu Point had been omitted by the previous survey. It being the area in front of a good sand beach, it was decided to relocate a few signals in that vicinity. Signals HAM and RY were recovered and their positions transferred to the topographic sheet. The orientation and distance between the signals was investigated in the field and found to check. The additional signals and shoreline were then located.

CHARACTER OF CONTROL:

Control was furnished by five triangulation stations.

Respectfully submitted,

Hubert A. Paton

Hubert A. Paton,
Lieutenant,
Chief of Party.

PLANE TABLE POSITIONS

Sheet M₂

Object and Description	Lat.	D.M.	Long.	D.P.	Height.
Po, tallest rock on point	21°17'	949	157°40	239	5'
Dum, S. W. Cor. of shack.	21 17	1294	157 39	1581	
Gat, south post of old gate, 8"x8".	21 17	1385	157 39	1399	10
Ruin, south corner, rock heiau.	21 17	1432	157 39	1186	4
Gre, southeast corner, green house.	21 17	1660	157 39	1215	
Wat, water tank, SE one of three.	21 17	1767	157 39	1217	20approx
Tank, water tank, NW one of three.	21 17	1783	157 39	1225	30 "
Hol, Prominent rock, with small cave.	21 17	1814	157 39	900	
Pin, big pinnacle rock, west one of two.	21 18	125	157 39	718	

REVIEW OF TOPOGRAPHIC SURVEY No. 4759

Title (Par. 56) *Vicinity of Makapuu Point, S.E. Coast of Oahu, Hawaiian Is.*

Chief of Party *H. A. Paton* Surveyed by *Lt. L. A. Hirtz* Inked by *H. A. Paton*

Ship *Shore party* Instructions dated *July 14, 1931* Surveyed in *Dec. 1931*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
none
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *none*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *none submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in ~~aero-topography~~ relative to type of photographs, method of compilation and type of ground control.
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *and plotting checked* ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. ~~The~~ magnetic meridian was shown ~~and declination was checked.~~ ✓ (Par. 17, 52.)
18. The geographic datum of the sheet is *Old Hawaiian* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by

R. F. Christman Feb. 14, 1934

Examined and approved:

L. O. Solbut.
Chief, Section of Field Records

L. O. Solbut.
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work

J. S. Borden
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4759

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.

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVE

OCT 17 1933

Acc. No. _____

Field No. M₂_____

REGISTER NO. 4759

State Hawaiian Is.

General locality S.E. Coast of Oahu

Locality Vicinity of Makapuu Pt. and vicinity

Scale 1:5000 Date of survey December, 19 31

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton, Lieut.

Surveyed by Leonard A. Wirtz, Sgt. U.S.A.

Inked by Hubert A. Paton

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated July 14th, 1931

Remarks: Surveyed in cooperation with the U. S. Army to re-locate hydrographic signals. See Sheet # 4377 and # 4378