

11902

Diag. Cht. No. 4116.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-6012 Office No. T-11902

LOCALITY

State Hawaii

General locality Maui Island

Locality Papaula Point

1960 - 1961

CHIEF OF PARTY

H. J. Seaborg, Honolulu District Office
W. E. Randall, Baltimore District Office

LIBRARY & ARCHIVES

DATE

USCOMM-OC 5087

11902

DESCRIPTIVE REPORT - DATA RECORD

T-11902

PROJECT NO. (II):

PH 6012
(21034)

FIELD OFFICE (II):

Honolulu, Hawaii

CHIEF OF PARTY

H. J. Seaborg,

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

W. E. Randall

INSTRUCTIONS DATED (II) (III):

14 November 1960
28 November 1960
13 June 1961
16 January 1962

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

Old Hawaiian

VERTICAL DATUM (III):

~~MEAN SEA LEVEL~~ *MHW*
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):

PUU NENE 2, 1950

LAT.:

20° 54' 06.562"

LONG.:

156° 23' 56.104"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

= 206,550.21 Ft.

x = 591,389.92 Ft.

Hawaii

2

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.

DESCRIPTIVE REPORT - DATA RECORD

| | | |
|--|----------------------------------|-------------------------------|
| FIELD INSPECTION BY (II): J. C. Lajoie | | DATE: * May 1961 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Mean high water was located by Kelsh Instrument from October 1960 photography from field inspection photographs. | | |
| PROJECTION AND GRIDS RULED BY (IV): R.A.C. | | DATE 11-17-60 |
| PROJECTION AND GRIDS CHECKED BY (IV): J.D.C. | | DATE 11-22-60 |
| CONTROL PLOTTED BY (III): D.M. Brant | | DATE 1-25-61 |
| CONTROL CHECKED BY (III): H.P. Eichert | | DATE 1-25-61 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Aerotriangulation - Washington Office | | DATE 1961 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): J.D. McEvoy | PLANIMETRY J.D. McEvoy | DATE 7-61 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): J.D. McEvoy | | DATE 8-61 |
| SCRIBING BY (III): | | DATE |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): D.M. Brant | | DATE 8-61 |
| REMARKS: FIELD EDIT BY J.C. Lajoie * Refer to page 6 of this report concerning dates of both field inspection & field edit | | |

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|--|-------------|------|----------|--------------------|
| 60 W 2306 & 2307 | 2 Oct. 1960 | 0911 | 1:25,000 | 1.0 Ft. above MLLW |
| Stage of tide computed from predicted tides. | | | | |

TIDE (III)

Diurnal

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|--------------------------------------|-----------------|------------|--------------|
| REFERENCE STATION: Honolulu, Hawaii | | 1.2 | 1.9 |
| SUBORDINATE STATION: Kahului, Hawaii | | 1.4 | 2.2 |
| SUBORDINATE STATION: | | | |

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Norfolk Regional Office

DATE: May 1966
~~Oct. 1965~~

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

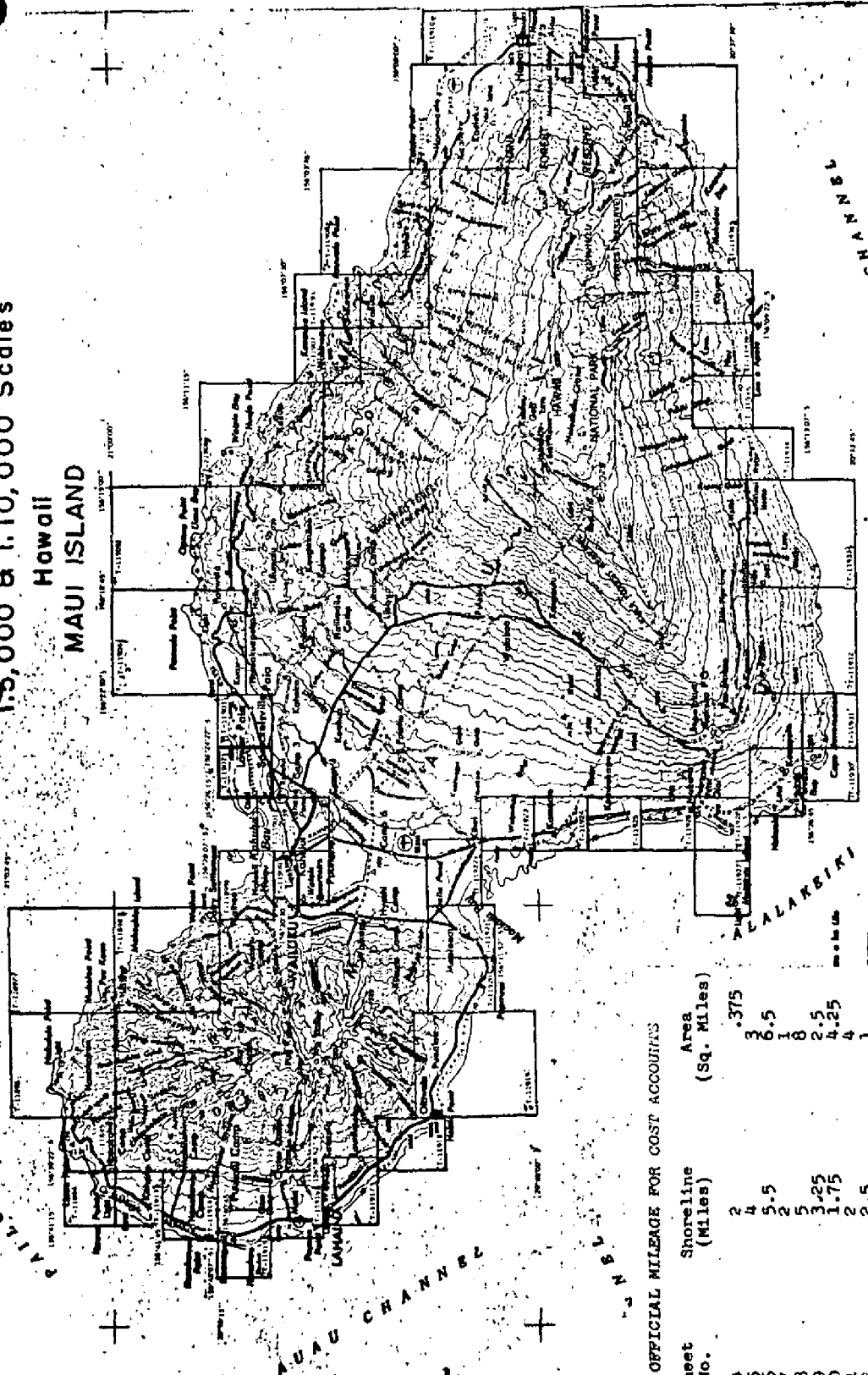
None

REMARKS:

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|-------------------------------|-----------------|------------|
| Shoreline furnished for hydro | July 1961 | Superseded |
| Final Compilation Completed | Oct. 1963 | |
| | | |
| | | |
| | | |

Planimetric Mapping 1:3,000 & 1:10,000 Scales

Hawaii MAUI ISLAND



OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Shoreline (Miles) | Area (Sq. Miles) |
|-----------|-------------------|------------------|
| T-11894 | 2 | .375 |
| T-11895 | 4 | 3 |
| T-11896 | 5.5 | 3.5 |
| T-11897 | 2 | 1.8 |
| T-11898 | 5 | 2.5 |
| T-11899 | 3.25 | 4 |
| T-11900 | 1.75 | 4.25 |
| T-11901 | 2.5 | 1 |
| T-11902 | 2 | 2 |
| T-11903 | 5 | 6 |
| T-11904 | 5 | 4 |
| T-11905 | 4.5 | 10 |
| T-11906 | 6.5 | 16 |
| T-11907 | 7 | 7.8 |
| T-11908 | 7 | 10 |
| T-11909 | 7.75 | 16 |
| T-11910 | 7.75 | 2.25 |
| T-11911 | 2.7 | 2 |
| T-11912 | 27 | 3 |
| T-11913 | 2.2 | 3.5 |
| T-11914 | 2.5 | 4.2 |
| T-11915 | 2.5 | 2.2 |
| T-11916 | 2.5 | 4 |
| T-11917 | 27 | 2.6 |
| T-11918 | 3 | 4 |
| T-11919 | 4 | 6 |
| T-11920 | 2.5 | 4 |

OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Shoreline (Miles) | Area (Sq. Miles) |
|-----------|-------------------|------------------|
| T-11922 | 3 | 3 |
| T-11923 | 2 | 3 |
| T-11924 | 2.5 | 2.5 |
| T-11925 | 2.5 | 1.5 |
| T-11926 | 2.5 | 1 |
| T-11927 | 1 | .04 |
| T-11928 | 3 | 1.5 |
| T-11929 | 4.5 | 3 |
| T-11930 | 1.5 | .25 |
| T-11931 | 2.5 | 3 |
| T-11932 | 4.5 | 3 |
| T-11933 | 5 | 2.5 |
| T-11934 | 2.7 | 1.5 |
| T-11935 | 2.5 | 1 |
| T-11936 | 5 | 1.5 |
| T-11937 | 5 | 3 |
| T-11938 | 5 | 3 |
| T-11939 | 4.5 | 3 |
| T-11940 | 2.5 | 3 |
| T-11941 | 2.5 | 3 |

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11902

Shoreline survey T-11902 covers a part of the coast of Maui Island in the vicinity of Papaula Point. The map was compiled at 1:5,000 scale by Kelsh Instrument methods. The primary purpose of the survey was to furnish new shoreline for nautical charts and provide photo-hydro support data for hydrographic surveys in the same area.

Field operations preceding compilation included recovery and identification of horizontal control, field inspection and pre-selection of photo-hydro stations.

Kelsh instrument compilation was accomplished using the 1:25,000 scale panchromatic photography of 2 October 1960 and supplemental control established by Aerotriangulation. Cronaflex copies of the map manuscript along with specially prepared ratio photographs were provided for preparation of the boat sheet, field edit and photo-hydro support purposes.

The manuscript is a vinylite sheet from which the smooth sheet was drafted and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

During examination of records at the Washington Office, prior to registering the map, conflicting information concerning dates of field inspection and field edit was found to exist as follows:

1. Field Inspection

- 1.1 map - Feb., 1961
- 1.2 DATA Record - May 1961
- 1.3 Report - Sept 1962

2. Field Edit

- 2.1 Map - May 1961
- 2.2 Report - Aug. 1962

Reports on both field inspection and field edit covered more than 1 map.

Apparently field inspection work was done between # Feb. 1961 and May 1961; field edit was ~~completed~~ completed in May 1961

FIELD INSPECTION REPORT
T-11902

Please refer to the Field Inspection Report for Maui Island,
Hawaii which is bound with the Descriptive Report for T-11894.

PHOTOGRAMMETRIC PLOT REPORT
T-11902

Please refer to the Photogrammetric Plot Report for the Western part of Maui Island which is bound with the Descriptive Report for T-11894.

COMPILATION REPORT T-11902

For additional data pertaining to this survey please refer to the Field Inspection Report for Maui Island bound with T-11896 and the Photogrammetric Plot Report bound with T-11894.

ITEMS 31 THRU 36

Please refer to the compilation report bound with T-11896

37. LANDMARKS AND AIDS

There are no landmarks, fixed aids to navigation or aeronautical aids within the limits of compilation.

38. CONTROL FOR FUTURE SURVEYS

No control for future surveys was located during compilation.

39. JUNCTIONS

Satisfactory junctions were made with T-11901 to the west and with T-11903 on the east. There is no contemporary survey on the south; the Pacific Ocean is on the north.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Paia, Hawaii quadrangle, 1:24,000 scale, edition of 1954.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

- 4116 - 1:250,000 - 12th edition - August 17, 1964
- 4124 - 1:30,000 - 3rd edition - May 3, 1965
- 4130 - 1:80,000 - 4th edition - August 31, 1964

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Joseph Steinberg
For Donald M. Brant
Carto. (Photo)

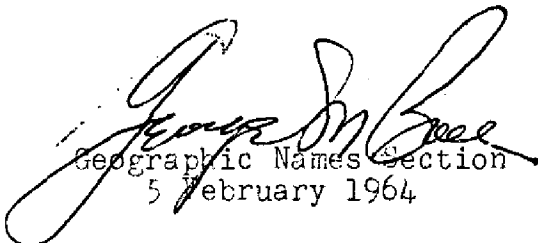
Approved:

J. Bull
J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

T-11902

48. Geographic Names List

Papaula
Papaula Point
Spartan Reef



Geographic Names Section
5 February 1964

49. NOTES TO THE HYDROGRAPHER

The following photo-hydro signals, identified by the field inspection party, were located during compilation.

| | | |
|------|------------------------------------|-----------|
| 0201 | Offshore corner, concrete pillbox | 60 W 2305 |
| 0202 | Northwest corner, steps on seawall | 60 W 2305 |
| 0203 | Chimney of house | 60 W 2307 |
| 0204 | Rough stone chimney | 60 W 2307 |
| 0205 | House gable | 60 W 2307 |
| 0206 | House gable | 60 W 2307 |
| 0207 | Corner of seawall | 60 W 2307 |
| 0208 | Stake at corner of road | 60 W 2307 |

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 T-11902

| | | | | | | | |
|---|--|--------------------------------------|---|---|--|---|--|
| 1. PROJECTION AND GRIDS DMB | | 2. TITLE DMB | | 3. MANUSCRIPT NUMBERS DMB | | 4. MANUSCRIPT SIZE DMB | |
| CONTROL STATIONS | | | | | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DMB | | | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NONE | | | 7. PHOTO HYDRO STATIONS DMB | |
| 8. BENCH MARKS NONE | | 9. PLOTTING OF SEXTANT FIXES NONE | | 10. PHOTOGRAMMETRIC PLOT REPORT DMB | | 11. DETAIL POINTS DMB | |
| ALONGSHORE AREAS (Nautical Chart Data) | | | | | | | |
| 12. SHORELINE DMB | | 13. LOW-WATER LINE DMB | | 14. ROCKS, SHOALS, ETC. DMB | | 15. BRIDGES DMB | |
| 16. AIDS TO NAVIGATION NONE | | 17. LANDMARKS NONE | | 18. OTHER ALONGSHORE PHYSICAL FEATURES NONE | | 19. OTHER ALONGSHORE CULTURAL FEATURES DMB | |
| PHYSICAL FEATURES | | | | | | | |
| 20. WATER FEATURES DMB | | | 21. NATURAL GROUND COVER DMB | | | 22. PLANETABLE CONTOURS NONE | |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS NONE | | 24. CONTOURS IN GENERAL NONE | | 25. SPOT ELEVATIONS NONE | | 26. OTHER PHYSICAL FEATURES DMB | |
| CULTURAL FEATURES | | | | | | | |
| 27. ROADS DMB | | 28. BUILDINGS DMB | | 29. RAILROADS DMB | | 30. OTHER CULTURAL FEATURES DMB | |
| BOUNDARIES | | | | | | | |
| 31. BOUNDARY LINES DMB | | | | 32. PUBLIC LAND LINES DMB | | | |
| MISCELLANEOUS | | | | | | | |
| 33. GEOGRAPHIC NAMES DMB | | | 34. JUNCTIONS DMB | | | 35. LEGIBILITY OF THE MANUSCRIPT DMB | |
| 36. DISCREPANCY OVERLAY DMB | | 37. DESCRIPTIVE REPORT DMB | | 38. FIELD INSPECTION PHOTOGRAPHS DMB | | 39. FORMS DMB | |
| 40. REVIEWER For: Donald M. Brant <i>Joseph Steinberg</i> | | | | SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph Steinberg</i> | | | |
| 41. REMARKS (See attached sheet) | | | | | | | |
| FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT | | | | | | | |
| 42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43. | | | | | | | |
| COMPILER <i>Joseph Steinberg</i> For: J.D. McEvoy | | | | SUPERVISOR <i>Joseph Steinberg</i> | | | |
| 43. REMARKS | | | | | | | |

FIELD EDIT REPORT
T-11902

Please refer to the Field Edit Report for Maui Island, Hawaii, strips 1 through 7, which is bound with the Descriptive Report for T-11894.

15.

REVIEW REPORT T-11902
SHORELINE
May 5, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Planetable survey No. 3270, 1:20,000 scale made in 1911-1912 and approved March 30, 1914. A submerged rock at approximate latitude $20^{\circ} 55.5'$ longitude $150^{\circ} 24.4'$ shown on the planetable survey is not visible on photography of the area.

This manuscript supersedes the planetable survey and should be used for Nautical Chart construction in the area compiled.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. quadrangle Paia, Hawaii, 1:24,000 scale, edition of 1954. The two surveys are in good general agreement. No major discrepancies were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8576 (SU-10-1-61) and PF-10-3-62 (Sheet A).

Several of the reefs shown on the manuscript do not appear on the boat sheets. Boat sheet PF-10-3-62 shows a large area to the east of Papaula Point as a foul area. These items have been noted on the comparison sheet. *

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 4124, 1:30,000 scale, 3rd edition May 3, 1965. A submerged rock at approximate latitude $20^{\circ} 55.5'$ longitude $156^{\circ} 24.4'$ is not visible on photography of the area. No major discrepancies between the shoreline of the two surveys were noted.

* Refer to page 17 of this report

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and meets the National Standards of Map Accuracy.

No items requiring investigation by future surveys in the area were noted.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull, CAPT., USESSA
Director, Atlantic Marine Center

Approved by:

Charles Leman S. 60. S. F. Woodcock
Chief, Cartographic Branch Chief, Photogrammetry Division

John C. Boyer 2/21/68
Chief, Chart Division Chief, Operations Division
Marine

NOTES TO VERIFIER
H-8576 and PF-10-3-62
(Comparison with T-11902)

T-11902 was field edited. Map details were found to be in agreement with their respective ground features.

T-11902 was compared with the subject hydro surveys during final review. Several discrepancies were found and noted in the review report and/or on the comparison print. The discrepancies, involving ledge, reef, foul line and breaker line, resulted, for the most part, from additions and corrections applied to T-11902 by the final reviewer. Any discrepancies remaining after application of changes reflected by the shoreline survey can be resolved through conference.

Washington Office Review Unit.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11902

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.

[illegible]