

5204a-b-c-d

U S COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 19 1932

Acc. No. _____

5204a-b-c-d

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Territory of Hawaii

11-5613

DESCRIPTIVE REPORT.
5204a-b-c-d
Hydrographic Sheet No. s. 1, 2, 3, and 4.

LOCALITY:

Honolulu, T. H. to Point Sur,
North Pacific Ocean
California

Pt. Sur, Calif. to Hawaiian Is.

1932
~~1922~~

CHIEF OF PARTY:

O. W. Swainson

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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SEP 19 1932
REG. NO. 52042
Acc. No. _____

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

Field No. 4

REGISTER NO. 52042

State ~~Honolulu, Hawaii to Point Sur, California.~~

General locality ~~Pacific Ocean~~ North Pacific Ocean

Locality ~~Pt. Sur, Calif. to Hawaiian Is., Eastern Part~~
~~Lat. 35° 00' Long. 134° 43' to Lat. 36° 29' Long. 122° 05'~~

Scale 1° Long. = 4" Date of survey March 23-30, 1932

Vessel PIONEER

Chief of Party O. W. Swainson

Surveyed by Ship's Officers

Protracted by V. M. Gibbens

Soundings penciled by V. M. Gibbens

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by R. J. Christman

Verified by R. J. C.

Instructions dated February 10, 1930

Remarks: Supplemental telegraphic instructions dated March 17, 1932.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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REG. NO.
SEP 19 1932
Acc. No. _____

5204b

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

Field No. 3

REGISTER NO. **5204b**

~~State Honolulu, Hawaii to Point Sur, California~~

General locality ~~Pacific Ocean~~ North Pacific Ocean

~~Pt. Sur, Calif. to Hawaiian Is., Central Part~~
Locality ~~Lat. 20° 58' Long. 132° 15' to Lat. 25° 00' Long. 124° 42'~~

Scale 1° Long. = 4" Date of survey March 23-30, 19 32

Vessel PIONEER

Chief of Party O. W. Swainson

Surveyed by Ship's Officers

Protracted by V. M. Gibbens

Soundings penciled by V. M. Gibbens

Soundings in fathoms ~~fms~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by _____

Inked by R. J. Christman

Verified by R. J. C.

Instructions dated February 10, 19 32

Remarks: Supplemental telegraphic instructions dated March 17, 1932.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST AND GEODETIC SURVEY
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SEP 19 1932

Acc. No. _____

REG. NO.

5204C

HYDROGRAPHIC TITLE SHEET

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

Field No. 2

REGISTER NO. **5204C**

State ~~Honolulu, Hawaii to Point Sur, California~~

General locality North Pacific Ocean
Pt. Sur, Calif, ~~Pt. Sur, Calif~~ Hawaiian Is, Western Part
Locality ~~Lat. 24° 23' Long. 146° 10' to Lat. 29° 58' Long. 152° 16'~~

Scale 1° long = 4" Date of survey March 23-30, 19 32

Vessel PIONEER

Chief of Party O. W. Swainson

Surveyed by Ship's Officers

Protracted by V. M. Gibbens

Soundings penciled by V. M. Gibbens

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by _____

Inked by R. J. Christman

Verified by R. J. C.

Instructions dated February 10, 19 30

Remarks: Supplemental telegraphic instructions dated March 17, 1932.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 19 1932

Acc. No. _____

REG. NO.

5204d

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

Field No. 1REGISTER NO. 5204d~~State Honolulu, Hawaii to Point Sur, California~~General locality North Pacific OceanLocality Calif., Vicinity of Oahu
~~Hawaii Pt. Sur, to Hawaiian Is., Eastern Part~~Scale Chart 4116 Date of survey March 20, 19 32Vessel PIONEERChief of Party O. W. SwainsonSurveyed by Ship's OfficersProtracted by V. M. GibbensSoundings penciled by V. M. GibbensSoundings in fathoms ~~feet~~Plane of reference M.L.L.W.

Subdivision of wire dragged areas by _____

Inked by R. J. ChristmanVerified by R. J. C.Instructions dated February 10, 19 32Remarks: Supplemental telegraphic instructions dated March 17, 1932.

DESCRIPTIVE REPORT
FOR HYDROGRAPHIC SHEETS 1, 2, 3, and 4, FROM
HONOLULU, HAWAII TO POINT SUR, CALIFORNIA.

Instructions dated February 10, 1930

Supplemental instructions, telegram of March 17, 1932.

The work embraced in this report is in accordance with telegraphic instructions of March 17, 1932, and constitutes a sounding line run from Honolulu, Hawaii to Point Sur, California by the survey vessel PIONEER en route to San Francisco, from March 20, 1932 to March 31, 1932.

Sheet No. 1^d is on chart 4116. The sounding line begins 3.6 miles $102\frac{1}{2}^{\circ}$ (T) from Makapuu Point Light and ends 21.2 miles $48\frac{1}{2}^{\circ}$ (T) from Makapuu Point Light.

The control for this line was visual fixes on natural objects, mostly mountain peaks, marked with red circles on the sheet.

The soundings were fathometer soundings, FR x 6, and reduced in accordance with 1931 seasons report, project No. 69.

Sheets Nos. 2, 3, and 4, Honolulu, Hawaii to Point Sur, California, are position plotting sheets.

Sheet No. 2 is plotting sheet from Latitude 24° to Latitude 30° .

Sheet No. 3^b is plotting sheet from Latitude 30° to Latitude 35° .

Sheet No. 4^a is plotting sheet from Latitude 35° to Latitude 40° .

The control for the sounding line on these sheets was by star and sun sights.

The sounding line begins on sheet No. 2 at Latitude $24^{\circ} 28'$, Longitude $146^{\circ} 10'$ and goes onto sheet No. 3 at Latitude $29^{\circ} 58'$, Longitude $132^{\circ} 15'$, and from sheet No. 3 to No. 4 at Latitude $35^{\circ} 00'$, Longitude $124^{\circ} 42'$. Line ends on sheet No. 4, 7 miles W x S of Carmel Point, Latitude $36^{\circ} 29'$, Longitude $122^{\circ} 05'$.

The line was adjusted between evening star sights, morning star sights, and noon latitude sights. March 25th and the morning of March 26th it was too cloudy for star sights but enough sun sights including the noon latitude sights were obtained to fix a good noon position on these days. The line was adjusted from the evening star sights March 24th, position 51B to position 86B, noon, March 25th, and from position 86B to position 134B, noon, March 26th. The morning of March 28th was too cloudy for star sights and the line was adjusted from position 194B, star fix evening of March 27th to position 229B, noon, March 28th.

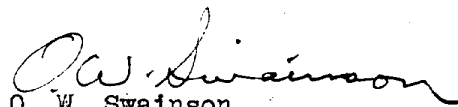
The soundings were taken with the fathometer white light method except for a few FR x 6 and a few sonic soundings when the echo could not be heard on the fathometer.

The fathometer soundings were reduced in accordance with 1931 seasons report, project 55. No reductions were applied to the few sonic soundings. The sonic soundings without any reductions applied seemed to check the reduced fathometer soundings quite closely.

The soundings for all four sheets are contained in one sounding volume.

The astronomical fixes plotted on cross section paper, the abstract of the dead reckoning with its adjustments, and the statistics form a part of this report.

Respectfully submitted.



O. W. Swainson,
H. & G. Engineer,
Commanding PIONEER.

TABLE OF STATISTICS FOR FIELD SHEETS 1, 2, 3, AND 4
HONOLULU, HAWAII TO POINT SUR, CALIFORNIA.

March 20th A Day. 26 statute miles ; 79 soundings ; 20 positions .

March 23 - 30. B Day. 1749 statute miles ; 458 soundings ; 341 positions ;

Astronomical fixes - 16.

Section of Field Records
Review of Hydrographic Sheets No. 5204 a-b-c-d
Point Sur, Calif. to Hawaiian Is., North
Pacific Ocean
Surveyed March 29 - 30, 1932
Instructions dated Feb. 10, 1930 and March 17,
1932 (Pioneer)
Chief of Party - O. W. Swainson
Surveyed by ships officers
Protracted and soundings plotted by V.M. Gibbens
Verified and inked by R. J. Christman

Fathometer and sonic depths.

1. The records conform to the requirements of the Hydrographic Manual and of the specific instructions relative to this class of work.
2. The character and the location of this sounding line satisfies the specific instructions.
3. This being a single line of deep sea soundings no depth curves are shown. The largest unsupported change in depth is the 1700 fathom sounding in lat. 35° 29' long. 123° 41'. Other soundings are consistent with the line next northward as shown on Chart 5002 and H O Chart 527.
4. The field drafting generally was very good. The use of a wrong object in plotting 3 positions on sheet d necessitated the replotting of a part of that line.
5. Recommendation. These soundings may be used to supplement the soundings already on the published charts.
6. Reviewed by R. J. Christman, October 16, 1932.
7. Inspected by R. L. Johnston, October 25, 1932.

The soundings of 429, 462 and 828 fathoms adjacent to the new line of soundings on H. 5204d (Chart 4116) are from British Admiralty Oceanic Depths in 1903.

The three soundings are discredited by the new work and they should be deleted from the chart. - *3 exp*

Examined and approved:

L. C. Colbert
Chief, Field Records Section.

H. Borden
Chief, Field Work Section.

W. H. ...
Chief, Chart Division.

Stude
Chief, H. & T. Division.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 5204 - a - b - c - d

Locality Honolulu to San Francisco

Chief of Party: O. W. Swainson in 1932

Plane of reference is
ft. on tide staff at
ft. below B. M.

**FATHOMETER SOUNDINGS - Depths generally exceed 100 fathoms and
no tide reducers are necessary.**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Atty *Harriman*
Chief, Division of Tides and Currents.

Applied to compilation of new Chart No 5020

S.P. Maize Dec 1937

" " Cht 4110 - Feb. 1941 - (5204d)

P. B. Castle.

~~5021 (NC) 7/19/46 (5204d)~~

~~(R)~~