# 8680

Diag. Cht. No. 4116822

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

## **DESCRIPTIVE REPORT**

(HYDROGRAPHIC)

Type of Survey
LOCALITY
State
General Locality
Locality Vicinity of Maalaea Bay
Locality
19 62
CHIEF OF PARTY A. L. Wardwell
LIBRARY & ARCHIVES
DATE8-7-70

☆ U.S. GOV. PRINTING OFFICE: 1975—668-353

FORM	C&GS-537

## U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SÉRVICES ADMINISTRATION COAST AND GEODETIC SURVEY

REGISTER NO.

## HYDROGRAPHIC TITLE SHEET

H-8680

USCOMM-DC 37009-P66

INSTRUCTIONS - The Hydrographic Sheet should be accomp	anied by this form,
filled in as completely as possible, when the sheet is forwa	rded to the Office.

FIELD NO.

STRUCTIONS - The Hydrographic Sheet should be accompanied by this form, led in as completely as possible, when the sheet is forwarded to the Office.	PF-10-1-62
tateHAWAII	
eneral locality MAUI ESLAND	
ocality Visinity WEST OF MAALAEA BAY	
cale 1:10,000 Date of surv	
nstructions dated 25 October 1960 & 9 January 1962 Project No.	OPR-419
PATHFINDER LAUNCHES No.2 & 3	
Chief of party Arthur L. Wardwell	
Surveyed by Lavon L. Posey	
Soundings taken by echo sounder, hand lead,	
raphic record scaled by <u>Launch Crew</u>	
raphic record checked by Launch Crew	
Protracted by Cornelius A. J. Pauw Automat	ted plot by
Soundings penciled byClarence R. Lehman	
Soundings in fathoms XXXXX at XXXX MLLW	
REMARKS:	
	· · · · · · · · · · · · · · · · · · ·
21.6.0 > 114/0 ,	<u></u>

## DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-8680 (PF-10-1-62)

#### A. PROJECT

This survey is a part of project OPR-419.

Original Instructions are dated 25 Oct. 1960; amended 9 January 1962, and 14 March 1962.

The above instructions serve as the authority for this survey.

#### B. AREA SURVEYED

The area surveyed lies south of McGregor Point on the southwestern shores of Maui Island and comprise the western half of Maalaea Bay and thence along the south shere of Maui Island westward for a distance of about 2½ statute miles. The northern latitude is 20°47' 00"; the southern latitude is 20°44' 45". The eastern longitude is 156°29' 05" and the western longitude is 156°34' 30".

The area surveyed joins H-8582 to the north; H-8687 to the east; and H-8679 & H-8583 to the south; H-8580 to the west.

#### C. SOUNDING VESSEL

Soundings were accomplished by the Ship PATHFINDER'S launches. Launch Ne. 2 used violet day letters and numbers; Launch No. 3 used green day letters and numbers.

#### D. SOUNDING EQUIPMENT

Raytheen Fathemeters, Medel 723, were used by both launches. Launch Ne. 2 used Raytheen Fathemeter, Serial Ne. 111 and Launch Ne. 3 used Serial Ne. 113. Ninety-five percent of the soundings were recorded on the A scales - the deepest soundings were only about 50 fathems.

Eche sounding corrections were determined by daily use of bar checks to a depth of four fathems. Velocity corrections were determined from data obtained from the oceanographic station observed on 25 April 1962.

Stylus arm length correcters were measured and added by personnel of the Seattle Processing Office (shown in red in record volumes).

#### E. SMOOTH SHEET

The smooth sheet projection was ruled in the Washington Office. All hydrography was pletted by personnel of the Seattle Processing Office. Verification was also accomplished in the Seattle Processing Office.

## F. CONTROL

The hydrographic signals were pletted by ship's personnel and checked (also added to) by Processing Office personnel. The G. P.'s were used for the location of triangulation stations. Photo manuscripts T-11919, 11920, 11921, 11922 and 11923 were used to locate (by transfer) the photo-identified topographic signals (red circles). Hydro-located signals were derived from cuts as recorded in the sounding volumes (blue circles). No unusual or substandard methods of control were used.

#### G. SHORELINE

Sherelines were transferred from the phote manuscripts as listed in paragraph "F" above, by personnel of the Ship PATHFINDER. Shoreline details were checked and found to be accurate by Processing Office personnel. The low-water line was not defined, because first: the foreshere is very steep to the beach and second: the range of the tides are very small.

#### H. CROSSLINES

About 10% of the hydrographic sounding lines are crosslines. For the most part, the crosslines soundings are in reasonably good agreement with the main scheme of the hydrographic sounding lines. The bettem in Maalaca Bay is very broken and rough, causing most jagged and irregular depth curves. Considerable re-scanning was done to arrive at plausible depth curves, since very few in-between soundings had been recorded by ship's personnel. Re-scanning also improved depth comparisons at crossings. Mere intensive development would have facilitated the drawing of depth curves with some confidence, especially in the southwestern pertion of this survey.

#### I. JUNCTIONS

To the north this survey joins H-8582 a contemporary survey precessed by ship personnel. The final matching of this junction remains to be done. To the east this survey joins H-8687. A satisfactory junction was accomplished after making extensive corrections on H-8687 in the position plotting. (See report for H-8687). To facillitate the making of this junction additional signals were pletted on the eastern shore of Maalaca Bay on smooth sheet H-8680. To the south this survey joins with H-8679. Rough broken bettom in this area and insufficient development leaves some questionable depth curves in the junction area. But

the ends of the depth curves have been matched and soundings transfered in purple ink to H-8680. To the south and west this survey joins with H-8583. The ends of the depth curves have been matched and soundings transfered in carmine red ink to H-8680. Some rather large "holidays" in the hydrographic survey line coverage plus irregular broken bottom, complicated by scale differences (40,000 to 10,000) of these two surveys caused uncertainties as to the exact location of the 40 fathom depth curves. To the west this survey joins with H-8580. A preliminary comparison of soundings in this junction area appear to be in reasonably good agreement. The print of smooth sheet H-8580 used for comparison was taken prior to verification. Hence this junction remains to be completed.

## J. COMPARISON WITH PRIOR SURVEYS

Survey H-8680 was compared with three prior surveys namely: No. 2456 dated Feb-May 1900; No. 5337 dated Jan.-Feb. 1931 and No. 5297 dated Feb.-March 1932.

No. H-2156 the eldest prior survey, compared very favorably with the modern survey. In general, difference in depth of soundings common to both new and eld surveys seldom exceeded one fathem. Depth curves indicated very similar configuration of the broken bottom in Malaca Bay.

There is one glaring exception to the above statement, to wit: the 17 fathem sounding at latitude 20% 5° 52°, longitude 156° 30° 56°. This sounding appears to be a detached position on this eld survey (No. 2456 of May 1900). The modern survey H-8680 pretty well dispreves this sounding in this locality. We suggest that research of the records of H-2456 be made to verify the validity of this sounding. There are two possible explanations; first a 10 fathem error in depth occurred. Second a horizontal positioning error was made.

H-5337 of 1931 covers only the nertheastern portion of H-8680. In the area covered by both old and new surveys identical bottom configurations are evident, only minor displacements of generalized depth surves are noticed.

H-5297 of 1932 compares favorably with the modern survey previded allowance is made for the 40,000 scale of the older survey. The older survey lacks in sufficient detail to make a really meaningful comparison.

#### K. COMPARISON WITH THE CHART

The modern survey was compared to the largest scale charts. The 1:10,000 scale chart C&GS 4104, 5th Edition, Oct. 17, 1966 compares favorably with this new survey excepting the "17 fathom" sounding mentioned in paragraph "J" of this report.

The western half of this survey was compared to C&GS chart 4130, 5th Ed. May 8, 1967 at the scale 1:80,000 and considering the scale difference

the comparison was good.

No particular dangers or shoals were found in this modern survey.

#### L. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede all prior surveys -

## M. AIDS TO NAVIGATION

McGregor Point Daybeacon is the only aid to navigation. It appears on this smooth sheet as McGregor Point Light 1950. The geographic position as published by the Ceast and Geodetic Survey and the location as listed in the 1962 Light List are in agreement. This white tower (the unused lighthouse tower) at McGregor Point serves adequately as a day beacon and was also used extensively as a hydrographic signal.

#### N. STATISTICS

Hydrography	Pos.	Miles sdg.	line	Bottom	n Samples
Launch 2	1110	149.1			10
Launch 3	50 <b>2</b>	57•5			(zero)
The total area sur	reyed equals	(9-3/4 (12.8	Nautical Statute	square	miles n

#### O. MISCELIANEOUS

This report was written by the verifier in the Seattle Processing Office. The data originates from rough notes made by the hydrographer, the smooth plotter's report and from related reports and entries in the record volumes of this survey.

The Chief of Party did not furnish an approval sheet when this survey was transfered to the Seattle Processing Office.

Respectfully submitted,

Cornelius A. J. Paus

Cartographer

Cornelius as

#### TIDE NOTE

Project OFR-419 USC&GS Ship PATHFINDER

H-8679 Hydrographic Survey H-8680 (PF-10-1-62) (PF-20-2-62)

Corrections for tides were determined from tides observed with a pertable recording tide gage located at Makena, Maui

(Lat. 20° 39.4 N Long. 156° 26.7 W) A time correction of zero and a range correction of zero, were applied to all tidal values observed at Makena Maui

The adjusted tidal values were applied to all soundings. Time meridian used was 150°W.

```
TIDE CORRECTORS: SHEET PF-20-2-62 H-8679 Reference Station: Makena
                       PF-10-1-62 H-8680 MLIW on Staff:
                       PF-10-2-62 H-8681
                                           April 18-May 27
                                                              1.1ft
                       PF-05-3-63 H-8686
                                          Aug. 23-Sept. 20
                                                              3.Oft
                                          No time or range factors
26 May 1962
                       27 May 1962
0600-0800 -0.1
                       0600-0829 -0.1
0801-1430 -0.2
                       0830-1400 40.2
1431-1500 -0.1
24 August 1962
                       25 August 1962
                                            28 August 1962
0600-0700
            0.0
                       0600-0800
                                  0.0
                                            1401-1600 -0.4
0701-0843
                       0801-0928 -0.1
          -0.1
                                            1601-1800 -0.3
0844-1027
          -0.2
                       0929-1100 -0.2
                                            1801-1924 -0.2
1028-1432 -0.3
                       1101-1530 -0.3
                                            1925-2100 -0.1
1433-1612 -0.2
                       1531-1726 -0.2
                                            2101-2300
                                                      0.0
1613-2400 -0.1
                      1727-2400 -0.1
                                            2301-2400 -0.1
29 August 1962
                      30 August 1962
0000-0100
          -0.1
                      0600-0730 -0.1
0101-0529
          -0.2
                      0731-1100
                                 0.0
0530-0700 -0.1
                      1101-1222 -0.1
0701-1028
           0.0
                      1223-1337 -0.2
1029-1150 -0.1
                      1338-1505 -0.3
1151-1300 -0.2
1301-1435 -0.3
1436-1650
         -0.4
1651-1725 -0.3
1726-1955 -0.2
10 September 1962
                      11 September 1962
                                            12 September 1962
0600-0740 -0.1
                                 0.0
                      0600-0909
                                            0600-0950
                                                       0.0
0741-0820
          0.0
                      0910-1010 -0.1
                                            0951-1050 -0.1
0821-0929
         -0.1
                      1011-1110 -0.2
                                            1051-1148 -0.2
0930-1030 -0.2
                      1111-1212 -0.3
                                            1149-1242 -0.3
1031-1133 -0.3
                      1213-1400 -0.4
                                            1243-1500 -0.4
1134-1410 -0.4
13 September 1962
                      20 September 1962
0600-0700 -0.1
                      0600-0625 -0.2
0701-1012
           0.0
                      0626-1222 -0.3
1013-1128
           -0.1
                      1223-1500+ -0.2
1129-1229
         -0.2
1230-1340 -0.3
1341-1500 -0.4
                                  L.L.P.
                       Computed:
                                  J.L.B.
                       Checked:
                       Typed:
                                  L.L.P.
                                  SUR
                       Checked.
```

## VELOCITY CORRECTIONS

RANGE	Core.
EGOM - TO	bers.
0.0 - 8.0	0.0
3.1 - 5.2	+ 0.1
5.3 - 7.5	40.2
7.6 - 9.6	+0.3
9.7 - 11.8	+0.4
11.9 - 15.2	+0.5
15.3 - 19.6	+0.7
19.7 - 24.0	+ 0.9
24.1 - 28.4	+ 1.1
28.5 - 32.7	+1.3
32.8-37.3	+1.5
37.4 - 41.6	+1.7
41.7 - 46.0	+ 1.9
46.1 - 50-4	+ 2.1
50.5 - 55.0	+ 2.3
55.1 - 59.7	+ 7.5
\$59.8-64.3	+ 2.7
64.4 - 69.2	+ 2.9
.69.3 - 74.1	+ 3.1
74.2 - 78.9	+ 3.3

RANGE	CORR.
(4ms)	SMS.
<del>-200</del> -	
79.0 - 83.8	+ 3.5
83.9 - 88.7	+ 3.7
88.8 - 93.6	+ 3.9
93.7- 98.2	+ 4.1
98.3 - 101.6	+ 4.3
101.7-106.7	+4.5
1068 - 112.1	+4.7
112.2- 118.1	+4.9
118-2 - 124.2	+5.1
124.3 - 130.2	+5.3
130.3 - 140.0	+ 5.5

LIST OF SIGNALS

List of stations used in H-8680 (PF-10-1-62)

Name used in Hydro- graphic survey	T-Sheet Number	Method of location
*ANT		
BAT	T-11921	Radial Plot 1962
BEN	T-11920	Radial Plet 1962 (two outs)
*CAN 1962		
CAR	T-11920	Located by stadia traverse from 2010A 1962
CAT	T-11921	Located by traverse from Photo Pt. 2101A. 2101 was found destroyed and wrong photo pt. was used to locate same signal in 1961 work.
CUP	T-11921	Photo Pt. 2103
DEN	T-11921	Radial pletted 1962
DOG	T-11920	Located by stadia traverse from 2010B 1962
DRY	T-11920	Radial pletted 1961
GLO	T-11920	Radial plotted 1961
HOL	T-11922	Photo Pt. 2202
JOY	T-11920	Pheto Hydre Pt. 1901
*JUD		,
*KEY(hydr⊕)		
KID	T-11920	Radial pletted 1961
LIL	T-11920	Radial pletted 1962 (two cuts)
LOW	T-11920	Radial pletted 1961
IUX	T-11920	Transferred by shoreline detail points 1962 - Photo 2347
MAC	T-11921	McGregor Point Light, 1950
MAN	T-11920	Transferred by shoreline detail points-1962 - Phote 2347

## LIST OF SIGNALS (CONTINUED)

Name used in Hydro- graphic survey	T-Sheet Number	Method of location
MAY	T-11921	Malay (Temperary)
MOT 1962		
OAK	T-11921	Radial pletted 1962
off	T-11920	Transferred by shereline detail points - 1962 - Phete 2347
*CRE (hydre)		
*PAR 1962		
*PAV		
*POL 1962		
PRO	T-11920	Lecated by stadia traverse from Phote Pt. 2004-1962
*RAN 1962		
*RAW (hydro)		
RIM	T-11920	Lecated by stadia traverse from Phote Pt. 2004-1962
SAP	T-11920	Radial Pletted 1961
SOK	T-11920	Radial Pletted 1961
STE	T-11922	Photo Pt. 2209
TOW	T-11923	Kihei, Radie Station WWVH, mast, 1950
TOY	T-11921	Located by stadia traverse from Phote Pt. 2101A
*USE 1961		
<b>200</b>	T-11920	Transferred by shoreline detail points 1962- Phote 2347

## LIST OF SIGNALS (CONTINUED)

Name used in Hydrographic survey	T-Sheet Number	Method of location
2010A	T-11920	Transferred by phote hydro points - 1962 - Phote 2347
20 <b>10</b> B	T-11920	Transferred by phote hydro points - 1962 - Phote 2347
2101A	T-11921	Radial Pletted, 1962

The additional signals "ANT.....through USE 1961 and show asterisks, all located on the mestern shore of Maalaca Bay, were used to resolve the junction with H-8687. "Castarn...

Those signals showing dates were plotted from field computed G. P.'s. Tope signals (red eireles) were scaled on H-8687; and hydre signals were plotted from cuts as listed in the record volumes of H-8687.

## Approval Sheet

The smooth sheet has been inspected and meets the requirements of the Hydrographic Manual. (Note: Exceptions are noted in the verifier's report.)

Examined and Approved

Supervisory Carto. Tech.

Approved and Forwarded

K. William Jeffers, Chief, Processing Division, PMC

## TIDE NOTE FOR HYDROGRAPHIC SHEET

July 16, 1964

Seattle Regional Officer

Plane of reference approved in 7 volumes of sounding records for

HYDROGRAPHIC SHEET 8680

Locality: Maalaea Bay

South Maui Island, Hawaii

Chief of Party: A. L. Wardwell, 1962

Plane of reference is mean lower low water

Tide Station Used (Form C&GS-681): Makena, Maui Island

Height of Mean High Water above Plane of Reference is as follows: 1.7 feet

Remarks

J. M. Symons

Chief, Tides and Currents Branch

FORM 157 (3-16-55)

Or House On the street S. Cripe of Hash J.S. Light List GEOGRAPHIC NAMES Flat Harrister Survey No. H-8680 Or No. F G Н Name on Survey 2 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 PREPARED BY CARTOGRAPHIC TECHNI APPROVED BY 26

FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

#### U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

## HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H - 8680

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECOR	RD DESCRIPTION		AMOUNT RECORD DESCRIPTION		RIPTION	AMOUNT			
SMOOTH SHEET		1	1		BOAT SHEETS				
DESCRIPTIVE RI	EPORT		1	,	OVERL	AYS	(Boat sh	eet)	/
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	routs	TA	PE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES									
CAHIERS	1								
VOLUMES	7								
BOXES									

SPECIAL REPORTS (List)

#### OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

	AMOUNTS						
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVI	IÉW	EW TQTALS		
POSITIONS ON SHEET				//	612		
POSITIONS CHECKED		675	200				
POSITIONS REVISED		12	10				
DEPTH SOUNDINGS REVISED		412	50		· ·		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		116	20				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		None					
		TIME (MA	(NHOURS)	)			
TOPOGRAPHIC DETAILS		/	16				
JUNCTIONS		19	50				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		16	50				
SPECIAL ADJUSTMENTS		4	_				
ALL OTHER WORK		120	77				
TOTALS		160	193		,		
PRE-VERIFICATION BY		BEGINNINGDATE		ENDING DATE			
VERIFICATION BY Cornelius a. J. V.	aus	NOV. 5	1968	ENDING DATE	1968		
REVIEW BY DE CHAMPERATA		BEGINNING DATE		4-6-73			

Inspect. DR Engle

26 Ars 5-3-76

USCOMM-DC 36271-P65

H-8680

## Information for Future Presurvey Reviews

This survey is located off the southwestern coast of Maui Island, Hawaii, in the vicinity of McGregor Point and includes the southwestern portion of Maalaea Bay. The bottom is considered adequately developed on the present survey.

Position Lat.	on Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
204	1563	1	1	50 years
204	1564	1	1	50 years

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE SURVEYS DIVISION

## HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8680

FIELD NO. PF-10-1-62

Hawaii, Maui, Vicinity of Maalaea Bay

SURVEYED: April 24 - May 10, 1962

SCALE: 1:10,000

PROJECT NO.: OPR-419

SOUNDINGS: 723 Depth Recorder

CONTROL: Sextant Angles on Shore Signals

Chief of Party .... A. L. Wardwell
Surveyed by .... L. Posey
Protracted by .... C. A. J. Pauw
Soundings Plotted by .... C. R. Lehman
Verified and Inked by .... C. A. J. Pauw
Reviewed by .... S. R. Baumgardner
Date: February 6, 1973

Inspected by ..... D. R. Engle

## 1. Description of the Area

This survey is located off the southwestern coast of Maui, Hawaii, in the vicinity of Papawai Point and includes the southwestern portion of Maalaea Bay. The bottom drops rapidly from the shoreline to the 10-fathom curve and then gradually to maximum depths of 50 fathoms offshore. Numerous irregular shoals and depressions fall within the 10-50 fathom curves.

Predominant bottom characteristic of the area is coral.

#### 2. <u>Control and Shoreline</u>

The source of control is adequately described in part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-11920 of 1960-62 and T-11921 of 1960-61.

## 3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves were adequately delineated except the low water curve which could not be developed because of the nature of the foreshore.

C. The development of the bottom configuration and the investigation of least depths are considered adequate.

#### 4. Condition of the Survey

The sounding records, smooth plotting, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except that in some cases development near the shore was inadequate (as noted in 3B above).

#### 5. Junctions

Adequate junctions were made with H-8580 (1961) on the west, with H-8583 (1961-62) on the southwest, with H-8679 (1962) on the south, with H-8687 (1962) on the east, and with H-8582 (1961) on the northeast.

#### 6. Comparison with Prior Surveys

H-2456	(1900)	1:10,000
H-2459	(1900)	1:60,000
H-4317	(1931-32)	1:10,000
H-5297	(1931-32)	1:40,000
H-5337	(1931)	1:20,000

A comparison of the prior surveys with the present survey reveals, in general, only minor differences of depths within the common area. It was noted that the reviewers of H-5297 and H-5337 of 1931 superseded prior surveys H-2456 and H-2459 by blanket statements in the review reports. However, the development on neither the 1931 surveys nor the present survey is considered adequate to disprove the following questionable soundings and they have been carried forward to the present survey:

- A. The 17-fathom sounding charted in latitude 20°45.88', longitude 156°30.93' from H-2459
- B. The <u>5-fathom sounding</u> in latitude 20°46.60', longitude 156°31.86' from H-2456

Numerous soundings have been brought forward from H-2456 to supplement the present survey in the vicinity of McGregor Point. With these additions, the present survey is adequate to supersede the prior surveys in the common area.

Comparison with Charts 4130 (latest print date January 30, 1971)
 4104 (latest print date August 22, 1970)

## A. Hydrography

The charted hydrography originates with the previously discussed surveys which require no further consideration, and is supplemented by information from the partial application of depths from the boat sheet and unverified smooth sheet of the present survey.

Attention is directed to the Radio Tower (landmark) charted in latitude 20°46.06', longitude 156°27.73'. This charted position does not agree with the published geographic position of the tower and should be revised.

The present survey is adequate to supersede the charted hydrography within the common area.

## B. Aids to Navigation

The aid to navigation on the present survey is in substantial agreement with the charted position and adequately marks the feature intended.

## 8. Compliance with Instructions

The survey adequately complies with the Project Instructions.

## 9. Additional Field Work

This is a good basic survey and no additional hydrography is recommended.

Examined and Approved:

a S. 1 m

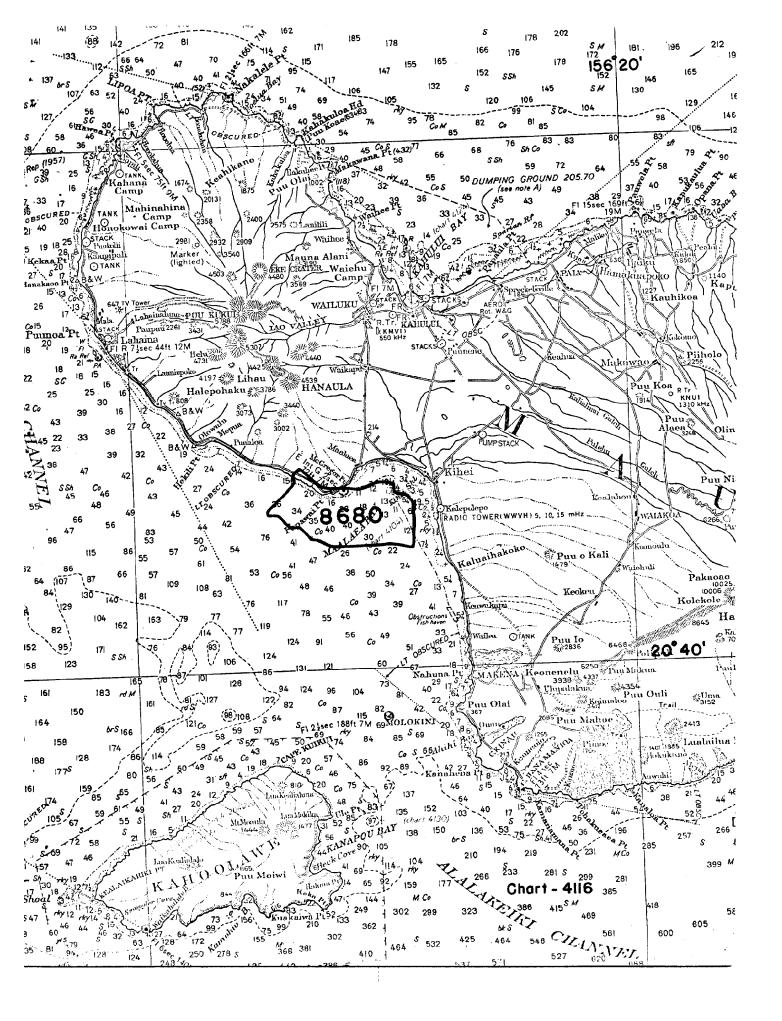
Chief

Marine Surveys Division

Associate Director

Office of Marine Surveys

and Maps



#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8680

#### 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
4130	6 Nov. 70	B. DUGAN	Full Part Before After Verification Review Inspection Signed Via
<del></del>			Drawing No. 14 Examined for critical concertions &
	ļ		revised numerous sdas
4116	4-15-71	Ja. Frakas	Full Part Before After Verification Review Inspection Signed Via
		<i>Y</i>	Drawing No. 16 aspid mise consistions to
			cht. 4130 dus *1A1
4179	5/10/11	J.H& Millan	Pall Part Before After Verification Review Inspection Signed Via
			Drawing No. 9 Comment thru 4/16 16 No Cuties
		. 4	I are an Tile Jak Him this is
4102	1/27/72	J Graham	Full Part Before After Verification Review Inspection Signed Via
•	///		Drawing No. 28 appl for critical con only
			thru of 4110 duy +16
4180	3/15/12	E. Frey	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 11 App'd for critical corr's only
			thru cht 4102 dwg + 28
4115	7/20/73	C.S. Forbes	thru cht 4102 dwg # 28 Patt Before After Verification Review Inspection Signed Via
		77-011761	Drawing No. April mise correction thru cht 4116 41
			The time corrections thru chi alle is
4/30	4/2/25	m. D. Kami	Pull Part Before After Verification Review Inspection Signed Via
	11-11-	MI O James	Drawing No. Examined Ledge Areas
			ONLY
h. <sub>7 ,</sub>		4.2	Fall Part Baine After Verification Review In the State Of the
4116	(-11-7/	H. of Borowski	Drawing No.
77.4	0 72-75	H. G. Boreway	For Green Tisk To Be Added To Ledges!
4115	8/9/75	Naitor	Ent Part Before After Verification Review Inspection Signed Via
	10191.0	- cun C	Drawing No. NO corr thru 416
			3 10000 4110 4110
4102	8/11/75	Naitok	Ext! Part Boforc After Verification Review Inspection Signed Via
-110 -	U   ''   U	1 your	Drawing No. No con thu 416
	1		
4170	8/29/75	HAUSMAN	Por 464-1 D 1/10
4115	1/2/12	<del></del>	PART After Review, No Corr thru 4102
	120177	KANIS	Part App After Signature
			Folly
	linte	~ 12.	
404	1/12/78	m.J. Friese.	appafter Inspection of Squature
404		m. J. Friese	
	1/12/78 8/28/79 6/13/63	M. Friese.	Part applied them 4115 After signature  Filly apply hydro after signal Un 20, April hydro through chart

#### NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRA

## MARINE CHART BRANCH **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

- Letter all information.
   In "Remarks" column cross out words that do not apply.
   Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
19340	4-26-89	ED MARTIN	Full Part Refore After Marine Center Approval Signed Via
			Drawing No. 24 IN FULL THEN 19347
19001	12-6-90	@ a + 111.	Full Part Defero After Marine Center Approval Signed Via
19004	12-6-10	R. a. Lillis	Drawing No. 36
		la/ -	
19009	4-26-91	KR. Forster	Full Part Before After Marine Center Approval Signed Via
			Drawing No. 18 thu Cht 19004.
19010	5-1-91	KR. Forster	Full Part-Before After Marine Center Approval Signed Via
			Drawing No. 17 Hur Cht 19013.
/9320	6/5/62	Dand Statingun	Full Part Before After Marine Center Approval Signed Via
7 1 3 20	73/47	Loud & marganer	Drawing No. CSTS application adequate
			ta cycor c
			Full Part Before After Marine Center Approval Signed Via
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			Drawing No.
·			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Dark Defense After Marine Control Ave. 100
			Full Part Before After Marine Center Approval Signed Via  Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.