

4957

Diag. Cht. No. 415

4957

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton *Director*

Hawaiian Is.
State: ~~Ter. Of Hawaii~~

DESRIPTIVE REPORT

~~Topographic~~ } Sheet No. 1 4957
~~Hydrographic~~

LOCALITY

West Coast of Hawaii ~~Island~~

Kauhako Bay to Awaiki Bay

19 29

CHIEF OF PARTY

K. T. Adams

Descriptive report
to
Accompany Hydrographic Sheet No. 1
Hawaii I, T.H.

Hydrographic Sheet No. 1 was executed in compliance with instructions dated November 3, 1927 and October 8, 1928.

SURVEY METHODS.

All of the hydrography on this sheet was controlled by three point fixed positions; the off shore work principally by definite mountain tops and the inshore work by definite natural objects and signals.

All of the hydrography on this sheet was done by the fathometer with occasional check soundings. In general, the red light method was used to approximately 350 fathoms and the white light method in deeper water.

The locations of a few of the signals used were scaled from the topographic sheets of the U.S. Geological Survey and these are indicated by a special symbol, (a purple circle with name in purple ink) on the smooth sheet. These U.S. Geological Survey topographic maps were of the greatest assistance, it being almost impossible to identify the peaks properly without them.

AREA and LIMITS.

This sheet was already on board when work was taken up in this vicinity, having been prepared by Commander T.J. Maher the previous season and never having been used. It was not economically laid out for our area but it was used nevertheless.

The area embraced by this sheet is bounded by and makes a junction with; Sheet #2 on the West, Sheet #4 on the North, Sheets #3 and #6, and #4798 on the East. No Hydrography has been done to the southward of this sheet.

** On account of the very steep slopes in the vicinity, good agreement can not be expected. The overlap with H. 4798 was examined, and as no important discrepancies were noted, no change was made. abms.*

A marked difference is noted in the crossing of some of the lines on this sheet and that of No. 4798 (Northern half). This is undoubtedly due to the large slope corrections in this area. The records for #4798 should be examined and where original soundings are found to agree with unconnected ~~sounds~~ of this sheet, they should be changed to agree with the latter as corrected. Some small discrepancies, of a few fathoms in most cases, were noted where this sheet makes a junction with inshore sheets No. 3 and 6. The latter were wire soundings and true vertical casts were probably not obtained. These soundings will be corrected to check the fathometer soundings on this ship sheet.

DANGERS.

There are no dangers nor evidences of dangers within the limits of this sheet.

CURRENTS.

^{are}
There ^{are} tide rips North of Makolea Point. It is off this point that

the topographic sheet of Lieut. E.O. Hand and chart No. 4115 show a sunken rock. No evidence of this found. It is probable that the tide rips were seen by him and caused him to place the rock on his topographic sheet.

No current observations were taken but from Makolea Point north east the current sets northward along the coast strongly. Farther off shore, in depths over 2000 fathoms the current sets toward the Island.

It is my belief that the North East trade wind causes a South-westerly current thru Alenuihaha Channel which eddies around flowing toward the Island of Hawaii and then northward along the coast. The current sets northward very strongly off Mahukona, off which we were anchored for some time. These currents will be discussed more in detail on sheet #4.

There are no tide reductions to be applied to this sheet.

K.T. Adams
K.T. Adams, Chief of Party,
U.S.C. & G.S.S. GUIDE.

APPROVAL OF RECORDS

The smooth Sheet and accompanying records for Hydrographic Sheet No. 1 have been inspected and approved by me.

A large percentage of the field work was done by me personally in charge on the bridge, and all of it was done under my direct supervision.

K. T. Adams

K. T. Adams, Chief of Party.
U.S.C. & G.S.S. GUIDE.

Boat used	Date	Day	Vol.	No. of Positions	No. of Soundings	Statute Miles
Ship	Nov. 6	A	1	8	17	12.6
Ship	Nov. 8	B	1	98	217	78.4
Ship	Nov. 9	C	1	20	31	14.4
Ship	Nov. 10	D	1	93	63	66.0
Ship	Nov. 14	E	1	19	35	13.4
Ship	Dec. 13	F	1	86	86	30.7
Ship	Dec 15	G	1 & 2	89	33	41.0
Ship	Dec. 16	H	2	55	-	33.1
Ship	Dec. 20	J	2	18	10	14.7
Ship	Dec. 22	K	2	9	9	6.9
Total				495	501	311.2

Salinity Determination
for use with
Temperature Corrections
Sheet #1, West Coast of Hawaii Id.

The value of Salinity = $34.5 \frac{0}{00}$ was
determined from observations submitted
to Director on March 22, 1929, See
Transmitting Letter of that date--
"Package #6, 3 Sheets, Salinity Determinations."

COAST AND GEODETIC SURVEY STEAMER "....."

Locality, Date,, 19..

Sounding No. Line

DEPTHS, IN FATHOMS.	TEMPERATURES.						REMARKS.		
	Reading.		Correction.		Corrected.			No. of the Thermometer.	Kind of Thermometer used.
	Min.	Max.	Min.	Max.	Min.	Max.			
Surface.								Temperature of Air Temperature of Thermometer. Locker	
								<p style="text-align: center;">Serial Temperatures 10 mi. W. of Keahole Light Hawaii Island, T.H. U.S.C. & G.S.S. GUIDE</p> <p>Used for determining Temperature Corrections for Sheet #1, west Coast of Hawaii Island.</p> <p>This is a checked copy of the original record. The original record is being retained at this time as it is part of volume containing all serial temps. taken by this party.</p>	

Signature of the Officer of the Deck:

Signature of the Recorder:

COAST AND GEODETIC SURVEY STEAMER "GUIDE"

Locality, 10 mi. W. of Keahole L. Date, Feb. 22, 19 29

Sounding No. 9 K Line Sheet #1
 Lat. 19° - 44' N, Long. 156° - 14.5' W

DEPTHS, IN FATHOMS.	TEMPERATURES.						REMARKS.		
	Reading.		Correction.		Corrected.			No. of the Thermometer.	Kind of Thermometer used.
	Min.	Max.	Min.	Max.	Min.	Max.			
Surface.								Temperature of Air 77° F Temperature of Thermometer, Locker	
2	24	35					4114	deep-sea	
10	23	60					"		
25	22	95					4104	"	
35	22	45					"		
40	22	25					"		
47	22	00					"		
60	21	90	?				"		
75	21	10					"		
90	20	45					"		
105	18	50	?				"		
112	19	70					"		
120	18	30					"		
*125	17	50					"	*Taken to check previous observation at same depth.	
130	15	80					"		
140	14	45					"		
150	14	45					"		
*150	15	10					"		
160	11	00	?				"		

Signature of the Officer of the Deck: H.C. Warwick

Signature of the Recorder: Francis B. Quinn

COAST AND GEODETIC SURVEY STEAMER "....."

Locality, Date,, 19.....

Sounding No. Line

DEPTHS, IN FATHOMS.	TEMPERATURES.						REMARKS.		
	Reading.		Correction.		Corrected.			No. of the Thermometer.	Kind of Thermometer used.
	Min.	Max.	Min.	Max.	Min.	Max.			
Surface.								Temperature of Air	
*160	12	80					4104	Deep-sea Temperature of Thermometer, Locker	
175	10	70					"		
190	9	85					"		
205	8	90					"		
225	8	40					"		
250	7	50					"		
285	7	00					"		
326	6	20					"		
400	5	20					"		
550	4	25					"		
800	3	15					"		

Copy-checked by F.B.Q.

Signature of the Officer of the Deck: H.C. Warwick

Signature of the Recorder: Francis B. Quinn

		SUMS	MEAN TEMP.	FACTOR	TEMPERATURES FOR SHEET NO. 1, HAWAII		Mean Surface Tempe
2	24.3	25.65		+.0275			Mean Salinity
10	23.6	2495	50.6	.02695			
20	23.1	24.45	75.05	265			
30	22.7	24.05	99.1	262	+ 0.5	17 to 20.8	
40	22.25	23.6	122.7	258	0.6	to 24.7	
50	21.9	23.25	145.95	.0255	0.7	28.6	
60	21.85	22.5	168.45	251	0.8	32.6	
70	21.5	21.5	189.95	245	0.9	36.6	
80	20.8		210.85	239	1.0	40.7	
90	20.0		230.85	232	1.1	44.8	
100	19.05		249.9	.0224	1.2	48.9	
	18.08		267.95	217	1.3	53.2	
	17.0		284.95	.0203	1.4	57.5	
	15.8		300.75	200	1.5	62.0	
	14.45		315.2	190	1.6	66.8	
150	13.3		328.5	181	1.7	71.7	
		12.15	340.65	171	1.8	76.8	
		11.15	351.8	162	1.9	82.1	
		10.4	362.2	153	2.0	87.8	
		9.85	372.05	.01455	2.1	93.9	
200		9.25	381.3	138	2.2	100.4	
		8.7	390.0	130			
		8.4	398.4	122	+ 2	100 to 120	
		8.2	406.6	114	+ 3	121 to 250	
		7.95	414.55	107	+ 2	250 - 330	
250		7.7	422.25	100	+ 1	330 - 412	
		7.5	429.75	.0093	0	413 - 484	
		7.25	437.0	.0085	- 1	484 - 537	
		7.1	444.1	78	- 2	537 - 605	
		6.9	451.0	71	- 3	605 - 707	
300		6.7	457.7	64	- 4	707 - 802	
		6.5	464.2	575	- 5	802 - 925	
		6.3	470.5	51	- 6	925 - 1093	
		6.15	476.65	455	- 7	1093 - 1685	
		5.95	482.6	41	- 6	1685 - 1825	
350		5.8	488.4	36	- 5	1825 - 1910	
		5.7	494.1	32	- 4	1910 - 1985	
		5.5	499.6	28	- 3	1985 - 2060	
		5.35	504.95	24	- 2	2060 - 2130	
		5.25	510.2	.0020	- 1	2130 - 2195	
400		5.2	515.4	16	0	2195 - 2246	
		5.1	520.5	13	+ 1	2246 - 2296	
		5.0	525.5	09	+ 2	2296 - 2344	
		4.90	530.4	06	+ 3	2344 - 2380	
		4.85	535.25	.0003			
450		4.75	540.0	0			
		4.7	544.7	.0003			
		4.65	549.35	06			
		4.6	553.95	09			
		4.55	558.5	12			
500		4.5	563.0	14			
		4.45	567.45	17			
		4.4	571.85	19			
		4.35	576.2	22			
		4.3	580.5	.0024			
550		4.25	584.75	26			
		4.2	588.95	28			
		4.15	593.1	31			
		4.1	597.2	33			
		4.05	601.25	35			
300		4.	605.25	37			

Scaled

2	24.3	25.65	50.6	25.3	.0275	+ 0.5	17 to 20.8	HAWAII	25.65
10	23.6	24.95	75.05	25.02	.02895		to 24.7	Mean Salinity	34.5
20	23.1	24.45	99.1	24.78	262	+ 0.5			
30	22.7	24.05	122.7	24.54	258	0.6			
40	22.25	23.6	145.95	24.33	.0255	0.7	28.6		
50	21.9	23.25	168.45	24.06	251	0.8	32.6		
60	21.85	22.5	189.95	23.75	245	0.9	36.6		
70	21.5	21.5	210.85	23.43	239	1.0	40.7		
80	20.8								
90	20.0		230.85	23.08	.0224	1.1	44.8		
100	19.05		249.9	22.72	.0224	1.2	48.9		
	18.08		267.95	22.33	217	1.3	53.2		
	17.0		284.95	21.92	.0203	1.4	57.5		
	15.8		300.75	21.48	200	1.5	62.0		
	14.45		315.2	21.01	190	1.6	66.8		
150	13.3		328.5	20.53	181	1.7	71.7		
			340.65	20.04	171	1.8	76.8		
			351.8	19.54	162	1.9	82.1		
			362.2	19.06	153	2.0	87.8		
			372.05	18.60	.01455	2.1	93.9		
200			381.3	18.15	138	2.2	100.4		
			390.0	17.73	130	+ 2	100 to 120		
			398.4	17.33	122	+ 3	121 to 250		
			406.6	16.94	114	+ 3			
			414.55	16.58	107	+ 2	250 - 330		
250			422.25	16.24	100	+ 1	330 - 412		
			429.75	15.92	.0093	0	413 - 484		
			437.0	15.60	.0085	- 1	484 - 537		
			444.1	15.31	78	- 2	537 - 605		
			451.0	15.03	71	- 3	605 - 707		
300			457.7	14.76	64	- 4	707 - 802		
			464.2	14.50	57.5	- 5	802 - 925		
			470.5	14.25	51	- 6	925 - 1093		
			476.65	14.02	45.5	- 7	1093 - 1685		
			482.6	13.78	41	- 6	1685 - 1825		
350			488.4	13.57	36	- 5	1825 - 1910		
			494.1	13.35	32	- 4	1910 - 1985		
			499.6	13.14	28	- 3	1985 - 2060		
			504.95	12.95	24	- 2	2060 - 2130		
			510.2	12.76	.0020	- 1	2130 - 2195		
400			515.4	12.57	16	0	2195 - 2246		
			520.5	12.39	13	+ 1	2246 - 2296		
			525.5	12.22	9	+ 2	2296 - 2344		
			530.4	12.05	6	+ 3	2344 - 2380		
			535.25	11.89	.0003				
450			540.0	11.74	0				
			544.7	11.59	.0003				
			549.35	11.44	06				

Class	Scalped From Curve	220.01	12.42	06	1.4	2344	2380	SUMS	Mean Vel.
450	4.90	530.4	12.05	06	3	2344	2380		
	4.85	535.25	11.89	.0003					
	4.75	540.0	11.74	0					
	4.7	544.7	11.59	.0003					
	4.65	549.35	11.44	06					
	4.6	553.95	11.30	09					
	4.55	558.5	11.17	12					
	4.5	563.0	11.04	14					
	4.45	567.45	10.91	17					
	4.4	571.85	10.78	19					
	4.35	576.2	10.67	22					
	4.3	580.5	10.55	.0024					
	4.25	584.75	10.44	26					
	4.2	588.95	10.33	28					
	4.15	593.1	10.22	31					
	4.1	597.2	10.12	33					
	4.05	601.25	10.02	35					
600	4.	605.25	9.92	37					
0-200			From Above Means						
			18.15	825.65	3.95	829.60			
200-400			6.70	809.90	1.21	811.11	1640.71	820.36	.000439
400-600			4.49	808.36	0.93	809.29	2450.00	816.67	.00406
600-800	3.55			810.60	0.98	811.58	3261.58	815.40	.00561
800-1000	2.90			812.52	1.05	813.57	4075.15	815.03	.00606
1000-1200	2.45			815.01	1.14	816.15	4891.30	815.22	.00583
1200-1400	2.15			816.88	1.29	818.17	5709.47	815.64	.00532
1400-1600	2.00			820.5	1.48	821.98	6531.45	816.43	.00435
1600-1800	1.90			823.3	1.65	824.95	7356.40	817.38	.00319
1800-2000	1.85			828.2	1.84	830.04	8186.44	818.64	.00166
2000-2200	1.80			829.9	2.03	831.93	9018.37	819.85	.000183
2200-2400	1.75			834.75	2.26	837.01	9855.38	821.28	.001561

Computed by K.T.A.
Checked by F.L.G.

21.85	22.5	168.45	24.06	251	0.8	32.6		
21.5	21.5	189.95	23.75	245	0.9	36.6		
20.8		210.85	23.43	239	1.0	40.7		
20.0		230.85	23.08	232	1.1	44.8		
19.05		249.9	22.72	.0224	1.2	48.9		
18.08		267.95	22.33	217	1.3	53.2		
17.0		284.95	21.92	.0203	1.4	57.5		
15.8		300.75	21.48	200	1.5	62.0		
14.45		315.2	21.01	190	1.6	66.8		
13.3		328.5	20.53	181	1.7	71.7		
	12.15	340.65	20.04	171	1.8	76.8		
	11.15	351.8	19.54	162	1.9	82.1		
	10.4	362.2	19.06	153	2.0	87.8		
	9.85	372.05	18.60	.01455	2.1	93.9	93.	
	9.25	381.3	18.15	138	2.2	100.4		
	8.7	390.0	17.73	130				
	8.4	398.4	17.33	122	+ 2	100 to 120		
	8.2	406.6	16.94	114	+ 3	121 to 250		
	7.95	414.55	16.58	107	+ 2	250 - 330		
	7.7	422.25	16.24	100	+ 1	330 - 412		
	7.5	429.75	15.92	.0093	0	413 - 484		
	7.25	437.0	15.60	.0085	- 1	484 - 537		
	7.1	444.1	15.31	78	- 2	537 - 605		
	6.9	451.0	15.03	71	- 3	605 - 707		
	6.7	457.7	14.76	64	- 4	707 - 802		
	6.5	464.2	14.50	575	- 5	802 - 925		
	6.3	470.5	14.25	51	- 6	925 - 1093		
	6.15	476.65	14.02	455	- 7	1093 - 1685		
	5.95	482.6	13.78	41	- 6	1685 - 1825		
	5.8	488.4	13.57	36	- 5	1825 - 1910		
	5.7	494.1	13.35	32	- 4	1910 - 1985		
	5.5	499.6	13.14	28	- 3	1985 - 2060		
	5.35	504.95	12.95	24	- 2	2060 - 2130		
	5.25	510.2	12.76	.0020	- 1	2130 - 2195		
	5.2	515.4	12.57	16	0	2195 - 2248		
	5.1	520.5	12.39	13	+ 1	2248 - 2296		
	5.0	525.5	12.22	9	+ 2	2296 - 2344		
	4.90	530.4	12.05	6	+ 3	2344 - 2380		
	4.85	535.25	11.89	+ .0003				
	4.75	540.0	11.74	0				
	4.7	544.7	11.59	-.0003				
	4.65	549.35	11.44	6				
	4.6	553.95	11.30	9				
	4.55	558.5	11.17	12				
	4.5	563.0	11.04	14				
	4.45	567.45	10.91	17				
	4.4	571.85	10.78	19				
	4.35	576.2	10.67	22				
	4.3	580.5	10.55	-.0024				
	4.25	584.75	10.44	26				
	4.2	588.95	10.33	28				
	4.15	593.1	10.22	31				
	4.1	597.2	10.11	33				
	4.05	601.25	10.02	35				
	4.	605.25	9.92	37				
	Scaled From Curve		From Above Means			SUMS		Mean Vel.
300			18.15	825.65	3.95	829.60		
3-400			6.70	809.90	1.21	811.11	1640.71	820.36 +.000
3-600			4.49	808.36	0.93	809.29	2450.00	816.67 -.004

Section of Field Records

Report on sheet No. 4957

Surveyed in 1928-29 Instructions dated 3/26/28

Chief of Party - L. J. Adams

Subvised by T. Adams, J. L. Dallen, H. B. Worwick

Protracted by - E. B. Latham

Verified and inked by - JTB hush

1. The records conform to the requirements of the General Instructions
2. The plan and character of the development fulfills the requirements of the General Instructions. (For economy of lay-out see par. 5 Descriptive Report)
3. There is in general good agreement between the sounding line crossing.
4. The usual depth curves can be completely drawn within the limits of the sheet.
5. The field plotting was completed to the extent prescribed by General Instructions.
6. The office draftsman did not have to do over any part of the drafting except as noted under Remarks.
7. The junction with H. 4798 is fair, there being some discrepancies west of Lailua Light House which are probably due to differences in slope corrections

H-4957 Contd

as applied to the two sheets.

Very examination of the junction with the inshore sheets must be deferred until those sheets are verified.

Remarks:-

The cuts listed on page 19 vol. 1, the records for this sheet must refer to signals located for the inshore lanch work, as no use was found to be made of them in the plotting of this sheet.

The tide gauges mentioned in the descriptive report North of Makoles Point are not plotted on this sheet as they do not fall within its limits. (See Descriptive Report.)

Positions 67F to 72F were plotted using A Hale A Kuli o Noho as the signals of the fixes instead of A Hale A Kuli A Kinai.

March 24, 1930
Respectfully submitted
JTB hanch

ECM

(FOR FIELD RECORD SECTION'S FILES)

March 6, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4957

Locality: Kalae to Awaiki Bay, Hawaii I., T. H.

Chief of Party: K. T. Adams, in 1929
Plane of reference is 3 ft. on tide staff at
ft. below B. M.

No tide reducers entered. Tide reducers less than one per cent of depth.s.

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.

Paul C. Whitney

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-WSW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 25, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4957

West Coast of Hawaii

Surveyed in 1928 and 1929

Fathometer Soundings

Instructions dated November 3, 1927 and October 8, 1928
(Guide)

Chief of Party, K. T. Adams.

Surveyed by K. T. Adams, F. L. Gallen, H. C. Warwick.

Protracted and plotted by E. B. Latham.

Verified and inked by J. H. Church.


1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. The sounding line crossings are satisfactory.
4. The information is sufficient for drawing the usual depth curves.
5. At the junction on the south with H. 4798, the soundings do not agree very well, but there are no important discrepancies. The records of H. 4798 were examined and while the slope correction used on that sheet may be excessive, no change was made in the soundings.
 - a. The inshore sheet and the sheet north of this survey have not yet been received and these junctions will be reported in the review of those sheets.
 - b. The P. D. (Position Doubtful) sunken rock, shown on T. 3425 will be considered in connection with the inshore sheet.
6. The usual amount of field plotting was well done by the field party, except that the figures used for position numbers are too large.

7. Character and scope of surveying --- very good.
8. No additional work is necessary.
9. Reviewed by R. L. Johnston, April 1, 1930.

Approved:



Chief, Section of Field Records (CHARTS)



Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

REG. NO. 4957

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. 1

REGISTER NO. 4957

State ^a Hawaii Islands

General locality ^{West Coast} Island of Hawaii

Locality ~~West Coast of Hawaii~~ Kauhako Bay to Awaiki Bay

Scale 1: 80,000 Date of survey Nov. 1928 to Feb. 1929

Vessel U.S.C. & G.S.S. GUIDE

Chief of Party K.T. Adams

Surveyed by K.T.A., F.L.G., H.C.W. *atham*

Protracted by E.B.L. *atham*

Soundings penciled by E.B.L.

Soundings in fathoms feet

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 26, 1928

Remarks:

August 25, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4957

West Coast of Hawaii

Surveyed in 1928 and 1929

Fathometer Soundings

Instructions dated November 3, 1927 and October 8, 1928
(Guide)

Chief of Party, K. T. Adams.

Surveyed by K. T. Adams, F. L. Callen, H. C. Warwick.

Protracted and plotted by E. B. Latham.

Verified and inked by J. H. Church.

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. The sounding line crossings are satisfactory.
4. The information is sufficient for drawing the usual depth curves.
5. At the junction on the south with H. 4798, the soundings do not agree very well, but there are no important discrepancies. The records of H. 4798 were examined and while the slope correction used on that sheet may be excessive, no change was made in the soundings.
 - a. The inshore sheet and the sheet north of this survey have not yet been received and these junctions will be reported in the review of those sheets.
 - b. The P. D. (Position Doubtful) sunken rock, shown on T. 3425 will be considered in connection with the inshore sheet.
6. The usual amount of field plotting was well done by the field party, except that the figures used for position numbers are too large.

7. Character and scope of surveying --- very good.
8. No additional work is necessary.
9. Reviewed by R. L. Johnston, April 1, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Applied to compilation 4140 J.M.A. May 1941