5115

Diag. Cht. No. 1265-2

Form 504 Ed. June, 1928 DEPARTMENT OF COMM U. S. COAST AND GEODETIC SURV R.S. Patton, Director	U. S. COA	T & GEODETIC SURVEY RY AND ARCHIVES	
	M		
State: Florida	Acc. No.		
DESCRIPTIVE RE	PORT		
Topographie Hydrographic Sheet No. 5	115		
LOCALITY			e Maria san en en en en en en
Gulf Coast	. •	·	
Off Santa Rosa I.			• • • • • •
VII GENIA 1103A 1.			
			e ja v jako ka akan kama kamaa ama a
19 30- 31		ti ∰	
CHIEF OF PART	Y	· .	
FL Peacock, L.O. Colbe	r.tt.		مصد دار را دار د
U. S. GOVERNMENT PRINTING OFFICE; 1850		I	•





DEPARTMENT OF COMMERCE

U. S. COAST-AND-GEODETIC SURVEY

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
REGISTER NO. 5115
State Florida
General locality West Coast Gulf Coast
Locality Off Santa Rosa I. April, May 19
Scale 1:40,000 Date of survey March, April , 19 31
Vessel OCEANOGRAPHER
F.L. Peacock 1930 Chief of Party L.O. Colbert 1931
Surveyed by F. L. Peacock and L. O. Colbert.
Protracted by 0. B. Hartzog.
Soundings penciled by O. B. Hartzog.
Soundings in Tathons feet
Plane of reference M. L. W.
Subdivision of wire dragged areas by
Inked by JT Walker
Verified by 17 W
Instructions dated Jan. 29, 1930; Jan. 31, 1931; Feb. 17, 19 3
Remarks:

One vol. Xog Jests filed with soundings vols., 1 H-5112

DESCRIPTIVE REPORT
TO ACCOMPANY

HYDROGRAPHIC SHEET NO. 1. H ____5115
GULF OF MEXICO

OFF SANTA ROSA ISLAND, FLORIDA

PROJECT NO. 74

•••••

Work was performed on this hydrographic sheet in accordance with instructions to the Ship OCEANOGRAPHER dated January 29, 1930, January 31, 1931, and further instructions of February 17, 1931. It supplements Hydrographic Sheet 4604 (R.L. Schoppe, 1927) sufficiently to bring the spacing of sounding lines to the specifications of the latest instructions. Plans to have a due north and south line at the eastern limit of this area were nullified by bad weather at the close of the season when orders were received to stop work and proceed from this vicinity to prepare for work on the northern working grounds.

All sounding lines were controlled by fixed positions on shore signals or on buoys except the line 19D to 36D.

This line was run under poor conditions for accurate hydrography, the fathometer was not functioning well and errors were made by the recorder who was under his first instruction in this work. It is recommended that the soundings between these positions be discarded.

No obstructions, banks or submarine valleys were noted. No consideration of channels or anchorages is

necessary in this area. Reduction of the soundings for tides was based on the records of the Pensacola tide station, an abstract of which was obtained from the observer.

comparative soundings, collection, recording and abstracting of temperature and salinity data, computations and abstraction of log ratings were made by Lt. Thos. B. Reed or under his immediate supervision.

There is attached a descriptive report of the method of locating the buoys prepared by Lt. Thos. B. Reed.

The following data are forwarded as a part of this report:

Statistic Sheet.

List of Buoy Positions.

Abstract of Water Temperatures and Salinities.

Abstract of Fathometer Comparisons,

Temperatures, Salinities and Bottom Characteristics.

Respectfully submitted,

L.O. Colbert, Comdr, C.& G.S., Commanding Ship OCEANOGRAPHER.

Norfolk, Va., May 8, 1931.

STATISTICS SHERT

TO ACCOMPANY

DESCRIPTIVE REPORT OF HYDROGRAPHIC SHEET NO. 1

.....

·	Statute Miles of Sounding Line	Number of Soundings	Number of Positions
Vol. 1	82.7	817	224
Vol. 2	116.2	1401	223
Vol. 3	81.7	1274	190
Vol. 4	62.4	9 4 8	115
Totals	343.0	4440	752

Area in square statute miles: - 180

FATHOMETER COMPARISONS

Water Temperatures and Salinities

....

Abstract of Fethometer Comparisons, Temperatures, and Salinities and Bottoms
To accompany Descriptive Report of Hyd. Sheet Wo. 1

Project No. 74, Off Santa Rosa Island Florida 1931.

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te	Time	Lat. N.	Lang W	Wire	H.L. Fast ft.	Paract		Surface	Sub	Surface	Ther No.	Č.	Den	C*	Ther No	Sea	Air Co	Wind	Videother:	Buro.	Versel	Bottoni	Remarks - Position No. etc.
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lar 15	ŋ. so	\$0.04	86-49		19-2	19-2	17.2	1.0265		1 -241		14. 2		18.4				NAM- 5	. Clear	\$0.16	Steedy		New Buoy "JED" (Lend Line Correct)
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70.17	9 06	30-23	84 - 41		5.3	6:3					i				i	Smeoth							yy mi from O Cutter
"	518	80 22	85.41		9-1	0.4		10455			\$1408	14.8	Bettiern	16.2	41198	-		N· z	Class	30.16	SMady		M ₄
4	17:50	30-13	36.20	.	13-4	1311		1.03.500	Bettom	1.0255	-	15-7	-	15.5		-	60	Sw- 3	-	30 08		FAR.WAS	Bury AL 250 T /L mi
Menia	1:20	10-13	26 50	1	13-4	13-4	1	1.0244			-	15.5		15.5		, "	••	Calm		30.10			fethomefer cold
	8:30	30.00	, 96-80		gŋ-t	21.0		1.01.4	9			15.8	1 "	15. 6	-				-	30.10	-	Free Gy. S.	NNE Smi Buy HOE.
~	10:45	30-6	66.50	Ì	37.2	36-4	4	1025			1	14.7	1	15. 5	Ĭ				1	İ		Cre Gy.S	Hammar Mayed warting alter the mily Remind
Mar 25	111.55	30 · (6	86 52	İ	11:5	pr-f		1.024	3 ''	1.025	"	16.5		16.2	1	Light Swall		WHE -3	Claudy	50.0%		For Gy S	
	15:11	30 16	86-90		13.0	11-0	٠					İ				3m th				İ		Fac.Wh. 9	1
-	16:10	30-14	86 - 44		12 3	10-7																French S	
Mareb	10.41				13-2	12~1	1	1 =248	&.n.	10232	- "	14.6	Siller	16.2		Madeum Seead Meany Chees	61	ENE S	anty	80 etg	Light Rull.	610	
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											1						1		1		1		COPY + by Made

FATHOMETER COMPARISONS

Water Temperatures and Salinities

Abstract of Fathermeter Comparisons, Temperatures Salinities and Bottom Characteristics
To accompany Descriptive Report of Hyd. Sheet No. 1

Project No. 74 off Santa Rosa Island Florida 1931

		Posi	fion	Depth	бу	Falhor	eler	Spe	cifre O	ravity Surface	Than No.	r Ten	P 250	T Shee		۱ .				_	Melun el		B 4 34 -
199/	Time	Lat. N.		Wire	by H. L. Fma.∼ft	Impact Fmsff.	Osc.	ì	امد	Surface	SI448		Dette	Thete No	٠.	Sea .	F.	Wind	Weather	Barous	Vessel	Bottem	Remarks - Positions etc.
Merze	13:45	30-17	86-49		13-3	11-3	!	1.02 48			51977	16.3				Moderate	62	E-4	Showers	50.02	Light Roll		New 31-K
"	15:00			ĺ	13:5	13-7					ŀ											ļ	Dial resat on fathmeter to read correct
Mar 30	(2:25	30-16.2	86-475		11-4	12-6					٠٠.	16,75	Lite	SH44	15.7	Smarth	68	ENE . 3	b-c.	30.0b	Standy	Tw.Wi. S.	v v - " April I:
Apr 2	8:19	30 - 22	86-49		10-0	10-1		1.0242			51494	15,4	lath#	57498	163	Langi Swall	60	LHE-1	cieer	29.44		The Wh. S.	
"	9:10	34-16	86-48	l	1215	12.1		ļ						ł				EHE-I			Stray	Algeb.	1-L
"	10:30	3u-01	86-47	ļ	243	23-0	1	10210	Settem	1.0252	51478	46.7	Betton	61498	16.9	Lonji Saviti	64	ENE		29.40	*-	IN S. P	11·L
٠.	15:02	30-10	86-46		19-1		18-4		Ì		•	16.4		-	14.9			ENE -I		29.96			Near O Hum. Hydrometer Broken.
-	15:17	30-10	84.45		19-4		18:5							ļ		Land Swell		ENE 1		29 98	-	Sh. sh Crs. br. 5	Mami E. at O Nun.
																			ļ				1130 Horiz, Spring bake, Pophian with nineral
Apr 3	9:45	30-13	86.49		16.0	14-6						160	S. Mir me	*****	16.6	Mulerate Swell	64	ESE 3	Clovey	p= 00	Light with a place	Crs. Gy, S	Nest O KACY
	9:05	30 - 13	86.19		15:4	15.1				ĺ								£56.3		\$4.00			
	12:55	30-13	86.51		15-6	14 - 2				İ	21498	,,,	Batter	51 198	16.5	Moderate Smell	66					BL Sh. GsW4.5	Near & AL.
	16:50		36-37.0		19-0	18.0						16-15			16.9		۱.,				10, 4011		
Apr. 4	11.65	30 07.5	86.23		19-2	18-1				İ	51498	16.3	_		16.6	Medigrate Smith	1.5			30.0½		Ca. mh.s.	
75.			84 - 27		19.2	10-1	-R				2.113	10.3	`			THE PART SERS				7	Ligner ragt		Fullianiater rending inconsistently
١., ١	13:50	25, 44	1	101 - 0			(mg)										1,,				Ziger ray		Buy Z' bars 265%T VA. 21' (Septembru)
	14.10	201-44	80.01	tu2 · "			(m. 3)				21498	20.0	No.	\$1,500 \$1,500	15.9		15	i				1	11
,,	14:10	29 45	86 · s 2												16.6								New or Hos.
	17:00	\$0.07	86.51		11-3	10-			1		21476	16.6	B)///	£1471	"		"			[Near @ HOE.
	17:05	\$0.00	86.21		11.3	40 4				1											l	3r. Sh.	
Apr. 5	gove	34-04	86 49		19.1	149.2		Ì			51498	18.9	En:temp	-	15.5	Short Swell.		UMW-1	CIM	lact	Light Stat	CONN.S	Near O Jap.
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ABSTRACT OF WATER TEMPERATURES AND SALINITIES

IN GULF OF MEXICO, OFF SANTA ROSA ISLAND, FLORIDA

PROJECT NO. 74 MARCH AND APRIL 1931

SHEET NO. 1

DATE 1931		TIME	LAT.	LONG.	DEPTH Fms. Ft.	SALINITY . Sp. Gr.	CORRECT- ED SUR.	TEMP.	
Mar.	. 6	8:40	30-22	86-46	10-4	1.0261	15.2	15.4	
Mar.	. б	12:05	30-18	86-50	11-5	1.0260	15.2	15.3	
Mar.	. 6	1:20	30-18	86-50	16-1	1.0261	15.7		
Mar	12	12:05	30-08	86-58	18-5		15.9	15.1	
Mar	12	5:45	30-14	86-58	14-0	1.0256*	15.2	15.7	
Mar	13	7:25	30-15	86-56	12-0	1.0254	15.0		
Mar	13	11:04	30-12	86-59	14-5	1.0259*	15.5	15.9	
Mar	13	11:35	30-10	86-59	16-0		15.3		F = 0.0085
Mar	13	12:55	30-09	86-49	19-2	1.0250	16.2	15.8	
Mar	13	5:55	30-09	86-49	20-0	1.0252	15.9	16.2	
Mar	16	8:10	30-08	86-52	26-3	1.0250	15.0	15.7	30-41 fms = +.3fms
Mar	17	9:18	30-22	86-41	9-1	1.0255	14.8	15.2	42-53 fms = +.4fms
Mar	17	5:30	30-13	86-51	13-5	1.0252*	15.7	15.5	54-65 fms = +.5fms
Mar	18	8:30	30-08	86-50	27-1	1.0249	15.8	15.5	
Mar	18	10:05	30-07	86-50	37-2	1.0250	15.7	15.5	
Mar	25	11:55	30-16	86-52	11-3	1.0248*	16.5	16.2	
Mar	26	10:40			13-2	1.0250*	15.8	16.2	
Mar	26	12:10	30-10	86-49-7	23-3	1.0246	16.7	16.2	
Mar	26	1:45	30-17	89-49	13-3	1.0248	16.3		
Apr	2	10:30	30-08	86-47	24-3	1.0251	16.7	16.9	
\mathtt{Apr}	2	1:02	30-10	86-46	19-3		16.4	16.9	Hydrometer broken
\mathtt{Apr}	3	9:45	30-13	86-49	16-0		16-0	16.6	•
Apr	3	12:55	30-13	⁶ 86 - 52	15-0		15-1	16.5	
Apr :	3	4:30	30-07.5	5 86-57	19-0		16.5	16.9	*Mean of surface
\mathtt{Apr}	5	7:15	30-09	86-49	19-2		15.9	15.3	and bottom.
• •	5	9:40	30-18	86-49	11-5		15.7	15.7	
			Mea	ans		1.0253	15.86		Comp by T.B.R. Checked P.T.

Copy V by moe

Descriptive Report

Location of Survey Buoys
off Santa Rosa Island, Gulf of Mexico
U.S.C. & G.S.S. OCEANOGRAPHER

March and April 1931

To accompany Descriptive Report Sheet 1

Method of Proceedure

Buoys, AL, BEN, CAT, KACY, and LAB were cut in from sextant fixes about two miles inshore from the row of buoys. Tall hydrographic signals on shore were used for fixes. All plotting of cuts was done on a 1:40,000 projection on an aluminum sheet. A sketch showing the intersection of cuts on these buoys is shown on page # of this report. The numbers on the cuts correspond to position numbers in the horizontal angle record.

The sketch on page 5 of this report shows the method of locating buoys DOG, ELK, FOX, GOAT, HOE, and JED. Full speed double runs were made between buoys CAT and DOG, DOG and ELK, ELK and FOX, FOX and GOAT, GOAT and HOE, HOE and JED and JED and AL. Sun azimuths were observed between buoys around the loop from CAT to AL. Buoys DOG, ELK and FOX were planted exactly on range and no sun azimuth was taken between ELK and FOX, but the azimuth of entire line was taken from DOG.

Beginning with buoy CAT the entire loop was plotted as a traverse using full speed double runs for distance and sun azimuths for azimuth. The closure of the loop at buoy AL was 160 meters which was adjusted. The entire loop was plotted on a 1:40,000 projection on an aluminum sheet.

Buoy MATE was located from Buoy JED by a full speed double run for distance and the mean of the courses run and the range on position for azimuth. This buoy was lost before a sun azimuth was obtained. Buoy NUN was located from buoy JED by a full speed double run for distance and a visual bearing for azimuth.

Full speed double runs for buoy locations are recorded in the record labeled "Runs for Locating Buoys" accompanying this report, and computations are on the sheet attached. Cuts for locating buoys and sum azimuths are recorded in the record labeled "Angles for Buoy Positions" accompanying this report and computations of sun azimuths are attached herewith.

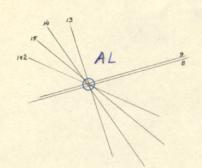
Page 15 of this report lists the positions of all buoys as scaled from the aluminum sheet.

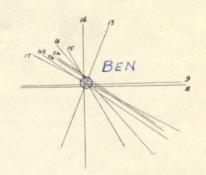
Respectfully Submitted,

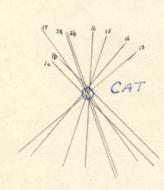
Thos. B. Reed, H. & G. Engineer.

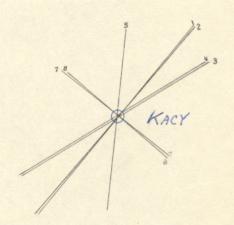
Approved and Forwarded:

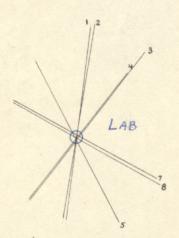
L. O. Colbert, Commanding Ship OCEANOGRAPHER.







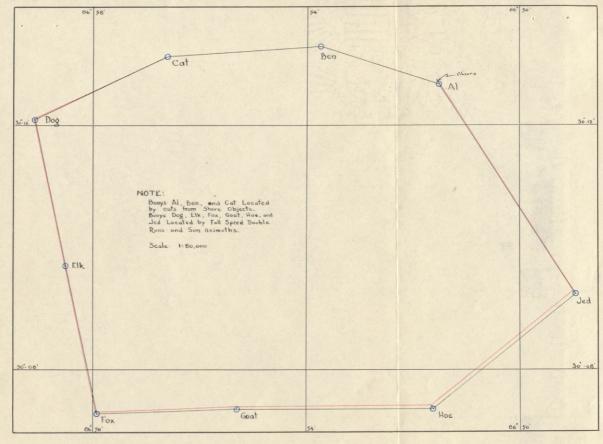




Sketch showing cuts to buoys on aluminum sheet.

Scale 1:40,000

Cuts to "AL", "BEH" and CAT"
were taken on March 10 and 11, 1931
Cuts to kacy and "Lab" were taken
on March 25, 1931.



O ADJUSTED POSITION OF BUOY

- ADJUSTMENT
- UNABJUSTED LOOP
- ADJUSTED LOOP

	Run Time Elec. Log True No Log Dist. r=1.016 Computation of distances	Log #2	f=.998	Log #3	Dist.	Dist. C=1.030	Revolut Stod.				Miles 545 · rev. per	Mean Dist.	Buoys	Remarks	Azimuth from Computations
	Competation of distances	Delween	Dunys 11 U.	,,,,,,,,	9200	4000/6 //0//	, ,	ļ		Ĺ	mile				Sun Az.
	1 8:43:00 66.575	54.89	į	18.15			281515	340270		-					
	1 8:54:30 68.616 2.041 (2.080	56.94	2.05 (2.046	20.24	2.09	2.15	282690	341458		1182					
	Mean ((2.235))	Mean (2.28)		Mean	(2.33)			Mean	(1283)	2.35	2.30	F to G		88-02
	2 9:07:30 70.015	58.26	1	21.67			283678	342077							
	2 9:21:00 72.364 2.349 2.390	60.77	2.51 2.505	24.11	2.44	₽.51	285054	343470		1384					
	3 9:35:57 73.780	61.92	0.00 (0.00	25.27	D 45	(n = n	286077								
	3 9:49:26 76.164 2.384 2.43	64.50	2.68 2.68				287447	345528		1372					
	Meen (2.35)		Mean (2.50)		Mean ~	(2.46)			Mean	(1342)	2.46	2.44	E to F		168-09
	6 11:31:35 91.283	78.58	2.32 \ 2.32	41.78	0.74	0.43	295872	į					ļ		i !
	6 11:44:05 93.507 2.224 2.26	80.90	2002 \2002	44.15	£.04	E+#T	297184	350666		1312	1		ŀ		1
	3 9:49:26 75.164	64.50		27.72			287447	345528							
	3 10:02:45 78.558 2.394	66.88	2.38 2.38		2.40	(2.47	288816	. 1		1368				Lound	
			Mean ((2.25))		Mean <				Mean		2.44	2.43	D to E	107 USER	168-09
	6 11:19:07 89.508	76.47		39.48			294583	353070						l	i !
	6 11:31:35 91.283 (1.775)	78.58	2.11 2.11	41.78	2,30	2.37	295872	354358		1288					İ
							İ								
	4 10:32:20 81.250	68,45		31.50			290179	348415			!		İ		
•	4 10:44:42 83.540 2.290 2.33	70.78	2.33 /2.33		1		291462	349701		1284					
	Mean ((2.36)		Mean (2.39)		Mean <	(2.44)		i	Mean	(1327)	2.43	2.41	C to D		65-08
	5 10:54:15 85.081	72.33		35.39			292413								
	5 11:07:48 87.416 2.335 2.38	74.78	2.45 2.45	37.78	2.39	2.46	293783	351984		1370					İ
		23.78	ļ.	88.16						Į.	i				
	7 1:13:55 88.500 3 88.60 7 1:34:35 92.753 4.253 4.33		4.03 /4.02		3.91	4.03	353601	i l			1				
	7 1:54:20 92:705 4:505	21,01	- 1		Mean		355768	414350		2168			7.3.3	Elec. Log not used	gea 25
	B 1:46:00 94.700	29.79	Mean (4.08)	94.03	мееп ≺	(4.10)	3568∋8	415503	Mean	(2225)	4.08	4.09	Jed-Al	netu	326-37
*	8 2:08:15 98.686 3.986 4.06	33.94	4.15 4.14		4.08	4.20	359183			2283	İ				
	0 2.00.15 20.000 51200 1100						.009100	41//04		2200					
	9 2:18:45 0.400	35.71		99.84			360224	418776							
	9 2:34:38 3.310 2.910 2.960		3.03 3.02		2.94	3.03		420426		1655					
	1		Mean (2.97)		Mean <			200300	Mean	(1635)	3.00	2.99	Hoe-Jed	riot used.	231-04
	10 2:46:30 5.523 Reject	40.70		4.76	ו		363035	421600							
	10 3:02:20 8.088 (2.545)	43.60	2.90 2.89	7.63	2.87	2.96	364648	423217		1615					
		1	•					!						Comp of to	T
		1		ļ			Ì							COPYVA	SER

.

	Run	Time	Elec. Log	Log Dist.	True Dist. f=1.018	Taffrail Log #2	Dist	True Dist fr.998	Taffrail Log #3	Dist.	True Dist =1.030	Revolu	ions Port		Rev's		Mean Dist.	Buoys	Remarks	Azimuth from Computations
	12 4	1:44:18 4: 55 :55	22.850 25.887 27.857 30.982	Mean	(3.136)	58.09 61.25 63.31 66.66	Mean	(3.2 5	22.65 25.76 27.81 31.01	Mean -	(3.20 (3.25) (3.30	1		Mean	1752 (1756)	3.22	3.22	Goat-Hoe	:	89-39
	13 5 13 5	3:32:25 3:47:35 3:58:25	22.159 24.687 26.403 28.675	2.528 Mean \	(2.56 (2.44)	41.19 43.73 45.44 47.81	2.54 Mean	(2.54	24.11 26.67	2.56 Mean <	(2.64 (2.51) 2.38	622170 623185	679333 680792 681830 683125	Mean	1470 (1382)	2.54	2.49	Jed-Mate	Buoy Mate before Sur Taken. Use In full spee And Range 17 J for	mean of courses of double run
	15 15 161	11:55:3 12:12:4 2:22:1	35 18.33 40 21.18 0 23.490	33 87 2.85 Mean	(2.67)	52.99 55.66 57.82	2.67	Roject	36.11 39.11 41.49 44.00	3.00 Mean	(3.09 (2.84) 2.59	745792 747164	803671 805332 806720 808109	Mean	1659 (1524)	2.79	2.77	Jed-NUN	Azimuth +	265-30 Fun Visbal
	16 1	12:41:2	0 25.88	j 2.3 9 0	2.44	1														Task F. Mere
i.															1			1		
						i i										:				

AZDAUTH BETARRE BUOTS BY OBSERVATION ON SUN

Position: - Ut Buoz Dog Cherrer: - Mr. Sammon.

Lati- 30.12.1

Long: - 86-59.1

Range: - Coland Dog

March 12, 1931

C a	h m s	obs. h	• • •			31.49.10
C-#		I.G.		Rango	to H. Tan.	
T		s.D.			I.C.	16
CT CC (+s^l)	7 28 20	Corr. h	04° 51'		S.D.⊙ -	
	12-27-44				corr. Vo	32-05-10
E	(-)10-04					
	12.17.40					
Long	5-47-56					
TAI	6-29-44		Log oo	•	9.9280	
			10 51		9.9295	
				Ve	31.45	
			Asimuth (from	tables)	96-53	· ·
			Asimuth Buoy	CtoD	65-08	

Calculated altitude of Sur

7: 5.30-16 Lag has 4.63880

L= 30-12.1 Lag cos 9.93664

S: (-)3°-34.8 Lag cos 9.99915

1.5 Lav. \$\frac{19.57459}{19.57459}

rot. hav 0.37548

L-S: 33.46.9 Nat hav. 0.08442

Z= 85°24'

Calc. 64°36'

Sip = 136
Comp. Olin.

alt. = 04°51'

Computed: F. F. a. 5. Chesked: OBA.

Hydrographic Sheet Nol, Pensacola, Florida 9

ALIMPRIS HETWEEN BUOTS BY OBSERVATION OF SUR

Position: - at Buoy Dog Cheerer: M. Croshy

Lati- 30-12-1

Lange- 86-59,1

Ranges- Dogard Elkand Fox

March 12, 1931

7 17 56		to R. Ton. O I.G. E.D. O	72 22
(-) 36 12 - 17 - 20 10 - 04		٧,	72° 38′
12 · 07 - 16 5 · 47 - 56 6 · 19 - 20	Lag con Y	9.47492 9.99952	
	" " V _G	9.47540 72° 37' 195 32	
	Animath (from tables) Animath Paoy To	168 09	

Calculated allitude of Sur.

t: 5. 40 - 40 lag hav. 9.66074

L= 30' 12:1 lag cos 9.93664

S= - 3° 35:0 log cos 9.99915

log hav. 9.59653

Nat. hav. 0.39499

L-S= 33-47.1 ref. hav. 0.08444

Z= 87' 38' 15"

Comp. h 2° 21' 45"

R&P = 1 15 25'

dip. - 5

Computed:- 28.4.

AZDEUTEB RETYREN BUOYS BY ORSERVATION OF SUR

Position: at Bury Fox Observer: Mr. Reed

Let: 30-07.3

Lang: 86-58.0

Range: Fox and Goat

Thank 12, 1931

L. Tan. O to Range C Range to R. Ten. I.G. C-18 S.D. I.6. #T 8.D. O COFF. h 15.46.48 8 20 07 13 - 19 - 31 COT E CAT Long 9.96681 LAT 9.98349 Ya. Azimath (from tables) Azimuth Buoy F To 4

Alcutated Attitude of Sun.

1: 4.38-26 log how 9.51293

L: 30-07.3 log cos 9.93700

S: (-)3°34' log cos 9.99916

log how 9.44909

Not. how. 0.28124

L-S: 33-41.3 " 0.08396

Computed: R. F. a. S. Checked: CISA

Hydrographic Sheet No. 1, Pensacola, Florida

AZIMUTHS BETWEEN BUOYS BY OBSERVATION OF SUN

Position: - at Buoy Goat

Lat: - 30 - 07 N.

Long: - 86 - 56 W.

Range: - 9001 and Hoe

I.C.

Warch 14, 1931.

C W C-W WT 7-55/8	70 7	Tan. O to Range nge to R. Tan. I.C. S.D. O	14 43
CT 7-5578 CC (+5 ²) (-) 36 CCT 12 54 4V E -09 31 GAT 12-45-11 Long 5-47-44 LAT 6-57-27	Log cos V	7. 98498	14° 59°
S=•2° 47′	" " V6 V8 Azimith (from tables) Azimith Buoy Good To Hee	9.99185 9.99313 10° 10' 99 49 89° 39'	

Computed:- C.f. u.S.
Checked:- CBA.

AZIMUTH BETWEEN BUOYS BY OBSERVATION ON SUN

Position:- At Busy Sed.

Lat:- 30 - 09.3

Long:- 86 - 48.9

Range:- Jed- Hoe

March 14, 1931

Doserver:- Mr. Reed

Sextant #

I.C.

C-W WT	h m s	Obs. h I.C. S.D. Corr. h	05 31 00 (+) 16	L. Tan. © to Range Jed- 1/0 e = Range to R. Tan. I.C. S.D. ©	, 32° 46' +16
E Gat	(-) 36 23 - 24 - 33 (-) 9 - 24 23 - 15 - 09 5 - 47 - 16			v ₀	33 - 02
	5-27.53		Log cos	v. 9.92343 h 9.99778	
			(from tables)	Vo - 9.92565 Vo : 32° 35' 263 39 231° 04'	

Computed: F. F. a. S Checked: OB, *

AZIMUTES ESTWEEN BUOYS BY OBSERVATION OF SUN

Position: - at Buoy Jed	Observer: - Mr. Rec	ed
Lat:- 30.09.3	Sextant #	
Long: - 86 48.9 Rango: - al and Jed.	I.C.	
March 14, 1931		

C W C-W	h m =	Obs. h 02 47 I.C. S.D. + /6	Range to	• to Range • R. Tan. • I.C. S.D. •	61-03 + 16
CT CC 47	38. 10 (-) 36 28 37 34 (-) 09 24	corr. h 03°0	•	v _o —	61-19
CAT Long LAT	23. 28. 10 5. 47. 16 17. 40. 54	I.e.	- 0	9.68121 9.99938	
		Azimuth (from to	va.	61 - 16 265 - 21 26 - 37	

Computed: Fas Checked: OBA

Hydrographic Sheet No. 1, Pensacola, Florida 14

Position:-	at Bury Jed	Opmerver:-	m. crossy
Lat:-	30.09	Sextent /	OK
Long:-	86.49 Jed. Hab	•	
Range: -	Jed. Hab	I.C.	

G W	h m s	obs. h	18 19			O to Range		5 27
C-W WT CT	8 16. 11	s.D.	+ 16 18° 35			I.C. S.D.	•	+ /6
OC (+5 ^x) OCT E	(-) 33 /3 · /5 · 38 (-) 6 /8		•			Corr. V	65	43
GAT Long	13.09-20 5-47-16							
LAT	7-22-04		1	**	h	9.6141	4	
S=+1°	34'				V _G	9.6373	7'	
			Asimuth Asimuth			99 <i>1</i>		: :

Computed: O.B.N.
Checked: T.B.R.

BUOY POSITIONS

OFF SANTA ROSA ISLAND, PENSACOLA, FLORIDA

PROJECT NO. 74 March and April 1931
To accompany Descriptive Report of Hydrographic Sheet No.1.

BUOY	Lat.	Seconds in Meters	Long.	Seconds in Meters
Al	30°-12′	1228	86 – 51'	Plotted on Al. Sheet by. T.B.R.
Ben	30-13	509	86-53	1195 \Plotting checked
Cat ·	30-13	189	86-56	1036 by K.G.C.
Dog	30-12	152	86-59	243 Plotted on Al. Sheet
Elk	30-09	1279	86-58	932 by T.B.R.
Fox	30-07	495	86-57	1590 Checked by 0.B.H.
Goat	30-07	647	86-55	534 D.Ms and D.Ps scaled
Ное	30-07	689	86-51	982 0.B.H.
Jed	30-09	461	86-48	Checked by T.B.R.
Kay	30-13	86	86-48	1562 Plotted and D.Ms and
Lab	30-12	1019	86-46	426 D.Ps scaled by K.B.J.
Mate	30-09	255	86-46	60 Checked by T.B.R.
Nun	30-09	863	86-45	1178

Copy V by MBR

Section of Field Records. Report on Sheet No. 5115 Surveyed in 1930, 1931 Chief of Party F. S. Pencock J.O. Colbert Surveyed by F.L.P., LO.C. Somdings plotted by O.B. Hartzog. Protracted by O. B. Hartzog. Verified and in hely Stualher The sounding records were neat and complete. The protracting was good where strong fines were recorded. The soundings were plotted according to The sheet when received was clean and Respectfully submitted,

Walker

ang 28, 1931.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. H. 5115.

Off Santa Rosa Island, Florida.

Surveyed in 1930 and 1931.

Instructions dated Jan. 29, 1930 and Jan. 31, 1931 (Oceanographer).

Hand Lead and Fathometer Soundings - Shore and Buoy Control.

Chief of Party - F. L. Peacock, L. O. Colbert. Surveyed by - F. L. Peacock, L. O. Colbert. Protracted and soundings plotted by - O. B. Hartzog. Verified and inked by - J. T. Walker.

1. Records.

The records for this survey conform to the requirements of the Hydrographic Manual with the exception that no computations for fathometer corrections were submitted with the sheet.

2. Specific Instructions.

The work conforms to the specific instructions and adequately fills the gaps left in the work of 1927 in this area (H. 4604).

3. Sounding Line Crossings.

The sounding line crossings are adequate. There were differences of 3 and 4 feet in a number of cases but the discrepancies seldom exceeded one fathom. This is considered very satisfactory in an area characterized by numerous undulations in the bottom.

There are several disagreements in the two closely spaced lines between December Hoe and December Some of the deep soundings on the lower line appear to be strays, but a study of the north and south lines run on F and H days in the vicinity shows that abrupt changes in depths are to be expected here. The soundings mentioned were therefore accepted.

4. Comparison with old surveys.

a. H. 4604 (surveyed in 1927).

A close comparison was made with this survey as the present survey is intended to supplement the work shown thereon. Where the old work, which was up and down soundings throughout, crossed the lead line work on the present sheet the agreement was almost perfect, and where the old work crossed the fathometer work on the new survey the differences with one exception (an ll foot difference in lat. 30-126, long. 86-51.2) were no greater than the differences noted between the cross lines on the new survey. The two sheets can therefore be considered a harmonious whole and no difficulty should be experienced in combining them on the charts.

While the soundings from H. 4604 have not been transferred to the new survey, the 20 fathom curve has been made to conform to both surveys.

H. 5115.

b. H. 1309 (surveyed in 1875).

The comparison with this survey has already been considered in the review of H. 4604 and since the present survey supplements the latter survey and no marked differences have been found between these surveys, whatever has been said in that review will apply equally well to the present survey.

5. Field drafting.

The usual field drafting was completed and the work was found satisfactory.

6. Additional Work.

No additional work is required within the limits of this survey.

7. Reviewed by A. L. Shalowitz. Aug. 1931.

Approved: A. M. Sobieralski. (Signed)

July 29, 1931.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 5115

Locality Off Santa Rosa Island, Coast of Florida

Chief of Party: F. L. Peacock in 1930 and L. O. Colbert in 1931
Plane of reference is mean low water, reading
8.0 ft. on tide staff at Pensacola
7.1 ft. below B. M. 6

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.

Fane Schusen ...

Octor, Chief, Division of Tides and Currents.

HYDROGRAPHIC SHEET No. 5/15

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

Number of positions on sheet	73.2
Mumber of positions checked	. 17.3
Number of positions revised	2
Tumber of soundings recorded	4440
Number of soundings revised	!4
Number of signals erroneously	
plotted or transferred	0

Date:	d	_
Cartographer: JaWalker	• • • • • • • • • • • • • • • • • • • •	•

applied to clerk 1264. Feb. 1938. G.K.S.