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U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administrational Marine Fisheries Service. 43.3

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Monthly Temperature and Salinity Measurements of Continental Shelf Waters of the Northwestern Gulf of Mexico, 1963-65

Robert F. Temple, David L. Harrington, and John A. Martin

February 1977

U.S. DEPARTMENT OF COMMERCE

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Monthly Temperature and Salinity Measurements of Continental Shelf Waters of the Northwestern Gulf of Mexico, 1963-65¹

ROBERT F. TEMPLE, 2 DAVID L. HARRINGTON, 3 and JOHN A. MARTIN²

ABSTRACT

Temperature and salinity observations made monthly from January 1963 to December 1965 at 48 stations in the northwestern Gulf of Mexico are presented. Off the coasts of Louisiana and Texas monthly average temperatures of surface and bottom waters at station depths of 7, 14, 28, 46, and 73 m exhibited seasonal trends that were similar over a 3-yr period. Monthly average temperatures of surface and bottom waters were generally similar at station depths of 7 and 14 m, but differences were noted at station depths of 28, 46, and 73 m and increased with depth. Maximum average temperatures of bottom waters at station depths generally greater than 14 m occurred after surface temperatures had passed their maximum and were dropping.

Salinities of surface and bottom waters varied markedly at 7- and 14-m stations, whereas at deeper stations seasonal fluctuations were restricted primarily to surface waters. The magnitude of yearly salinity fluctuations decreased with an increase in distance offshore. The effects of the seasonal freshwater inflow of the Mississippi River and other Louisiana rivers on salinities were clearly apparent in Louisiana and Texas offshore waters, although in the latter case there may have been a 1- or 2-mo lag.

INTRODUCTION

Between 1962 and 1965 the Galveston Laboratory of the National Marine Fisheries Service, formerly the Bureau of Commercial Fisheries, conducted an intensive survey of the waters over the continental shelf of the northwestern Gulf of Mexico. This survey was designed primarily to provide biological information on shrimp (Kutkuhn 1963; Temple and Fischer 1965 and 1967; Brusher et al. 1972; and Temple 1973) and finfish (Moore et al. 1970), but hydrographic data also were collected during the study to provide information essential for a more complete understanding of the environment over the continental shelf.

Hydrographic studies have been conducted periodically throughout the offshore waters of the Gulf of Mexico over the past 35 yr, but these studies generally have been either 1) extensive efforts covering large geographical areas of the Gulf on a seasonal or sporadic basis, or, 2) intensive efforts investigating specific phenomena over a restricted geographical area. Studies in the first category include those reported by Collier 1958; Ichiye 1962; Armstrong and Grady 1967 and 1968; and Nowlin and McLellan 1967. Those in the second category include investigations reported by Gunter 1945; Marvin 1955; Drumtigations reported by Gunter 195

mond and Austin 1958; Curl 1959; Finucane and Dragovich 1959; Wennekens 1959; Dragovich 1961 and 1963; Dragovich et al. 1961 and 1963; Jones et al. 1965; Stevenson and Leipper 1967; Armstrong 1967 and 1969; Armstrong et al. 1967; and Nowlin and Parker 1974. Additional general information is provided by Fuglister 1947; Leipper 1954; and U.S. Naval Oceanographic Office 1972.

The temperature and salinity information presented in this report adds to the hydrographic data base for the Gulf of Mexico, and is unique in several respects. First, measurements were made generally on a monthly basis at specified locations in the northwestern Gulf of Mexico over a 3-yr period, thus providing a time series heretofore unavailable. Second, these measurements were restricted to a portion of the U.S. continental shelf that is noted for its valuable shrimp and mineral resources which must receive adequate consideration in extended jurisdiction and coastal zone management.

PROCEDURES

Between January 1963 and December 1965, 35 cruises were conducted in continental shelf waters with the 27-m chartered shrimp trawler MV Gus III. Observations were made monthly at stations positioned on eight transects located west of the mouth of the Mississippi River and extending to just north of the Mexico-U.S. border (Fig. 1). Stations on two additional transects east of the Mississippi River were occupied only in 1963 during every other month beginning in February. Along each transect stations were positioned in predetermined total

The compilation and tabulation of part of the data reported herein were supported under the Department of Interior's Bureau of Land Management Interagency Agreement #08550-1A5-19.

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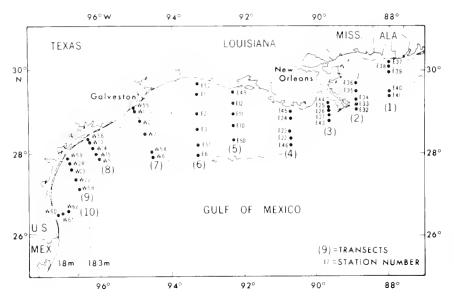


Figure 1.—Transects with stations occupied during the National Marine Fisheries Service's investigation of the continental shelf waters of the northwestern Gulf of Mexico, 1963-65.

water depths recorded originally in fathoms but converted herein to the nearest meter. Operations were conducted around the clock, and the time required to complete a cruise ranged from 10 to 24 days; the average cruise was completed in 14 days. Occasionally some stations could not be occupied because of adverse weather conditions or mechanical breakdowns.

Temperatures were measured with mechanical bathy-thermographs that were allowed to sound bottom on all casts. Surface bucket temperatures were taken for correction purposes with stem thermometers graduated to 0.1°C. In the laboratory, temperature and depth corrections were calculated for each slide before photography, and bathythermogram profiles were aligned by the average correction process as outlined by LaFond (1951). For tabulation purposes, temperatures at a station were recorded at 0 (surface), 3, 11, 24, 43, 70, 107, and B (bottom) meters, depending on total water depth.

Samples of surface water for salinity determinations were obtained from the bucket samples used for bathythermograph reference temperatures. Samples of subsurface waters were taken at depths of 3, 11, 24, 43, 70, and 107 m with Nansen bottles. The deepest sample at any station was 3 m above the bottom. Depths were determined from the wire angles and precalculated length-of-wire tables. Regardless of the method of collection, all samples were drawn into 200-ml culture tubes with Polyseal caps. Chlorinity was determined in the laboratory by the Knudsen method as soon as possible after each cruise.

All temperature and salinity values obtained at each station during this survey are listed by station and grouped by transects in Tables 1-10.

RESULTS

Temperatures and salinities of waters over the continental shelf of the Gulf of Mexico are affected by a number of factors such as air temperatures, surface winds, oceanic currents, and freshwater inflow. Of these, one significant factor in the area under consideration is the discharge from the Mississippi River which has a more pronounced or immediate effect on waters off Louisiana than on those off Texas. For this reason and because State agencies in Louisiana and Texas are concerned with natural resources off their respective coasts, the data have been grouped for 1) Louisiana waters (Tables 3-6), and 2) Texas waters (Tables 7-10). Data generated from east of the Mississippi River (Tables 1-2) and from 110 m of water (Table 6, Station E6 and Table 7, Station W6) are listed for informational purposes only.

Louisiana Offshore Waters

Monthly average surface and bottom temperatures (averaged for observations at stations of like bottom depths) over the 3-yr period are plotted for five depth zones in Figure 2. Within each depth zone, the trends were similar between years, and differences between depths were consistent. Surface and bottom water temperatures closely approximated one another at the 7-m stations, but the yearly range from a low of about 13.0°C to the high of 30.5°C was greater at this depth than noted at the deeper zones. As depth increased, the differences between surface and bottom temperatures increased and were greatest at the 73-m stations. Surface temperatures at all stations generally dropped during the fall and winter, warmed during the spring, and attained highest values in the summer. Bottom temperatures at depths greater than 7 m, however, only approximated this general cycle inasmuch as highest values frequently occurred when surface waters were cooling. This was particularly pronounced at the two deepest (46 to 73 m)

Monthly average surface and near-bottom salinities for five depth zones are presented in Figure 3. Also in-

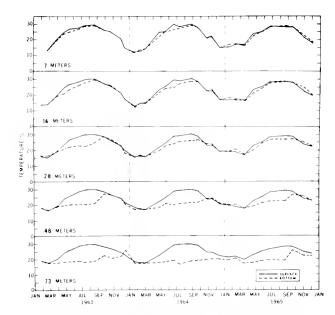


Figure 2.—Temperature trends of surface and bottom waters over the continental shelf off Louisiana, 1963-65.

cluded is the monthly discharge of fresh water from the Mississippi River and other Louisiana rivers. Trends in salinities were generally similar between years at the respective depths, but differences did exist between depths. At the 7-m stations, surface salinities generally reflected near-bottom conditions with values ranging from a low of $16.5^{\circ}/_{\circ}$ to a high of $33.7^{\circ}/_{\circ}$. Annual

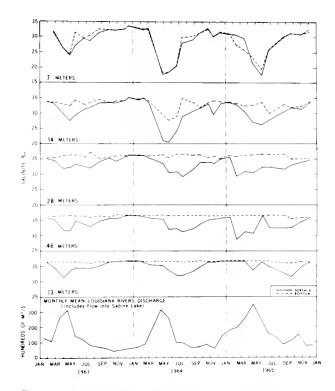


Figure 3.—Salinity trends in surface and bottom waters over the continental shelf off Louisiana, 1963-65.

variations decreased with increasing depth and distance offshore, with near-bottom salinities being virtually invariant at the 46- and 73-m depth zones. The effects and extent of the seasonal discharge of fresh water from the Mississippi River on offshore salinity values were readily apparent over the entire continental shelf off Louisiana.

Texas Offshore Waters

Trends in monthly average temperatures of surface and bottom waters at five depth zones are illustrated in Figure 4. Similar trends were apparent each year, but as in Louisiana waters, differences did occur with increased distance offshore or total depth. Monthly average temperatures of surface and bottom waters at depths of 7 and 14 m were generally similar over the 3-yr period, ranging from a low of about 10.5°C in February 1963 to a high of 30°C in September 1963. Temperature ranges of both surface and bottom waters decreased offshore and with increasing depth. Also, differences between surface and bottom measurements, when they occurred, were more pronounced in the deep waters than in the shallow waters. At depths of 28 m or greater, average monthly values revealed that maximum bottom temperatures occurred generally during a time when temperatures of surface waters were decreasing.

Yearly trends in monthly average salinity values of surface and near-bottom waters off Texas (Fig. 5) were more pronounced at station depths of 7 and 14 m than at the deeper stations (28, 46, and 73 m). Seasonal variations in salinities of surface and near-bottom waters were generally similar out to a depth of 28 m, but beyond that depth near-bottom salinities exhibited little seasonal change. Marked decreases in salinity values, either in surface and/or bottom waters, were related to

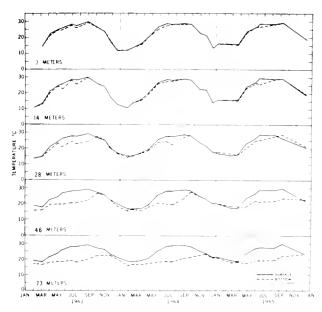


Figure 4.—Temperature trends of surface and hottom waters over the continental shelf off Texas, 1963-65.

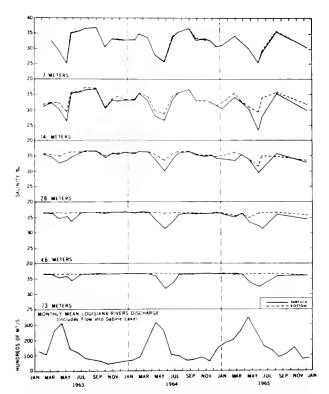


Figure 5.—Salinity trends in surface and bottom waters over the continental shelf off Texas, 1963-65.

peak outflow of fresh water from the Mississippi River although there may be a time lag of 1 to 2 mo. Superimposed on these marked changes were other minor changes evident at the shallower stations and which probably resulted from local river discharges.

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DEPTH: 7 M
LATITUDE: 30 12 N
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6	18	6	1963	28.1	27.8	27.2	23.€	20.1			20.1	32.22	34.53	34.80	36.32	36.49	
8	21	8	1963	30.2	30.2	30.2	27.8	21.9			21.9	33.51	33.34	35.51	36.42	36.46	
10	26	10	1963	26.0	26.0	26.0	26.0	26.0			25.7	36.17	35.97	36.08	35.92	36.04	
12	14	12	1963	20.8	20.8	20.8	20,7	20.7			20.7	36.39	36.30	36.36	36.36	36.32	
STATION: SEPTH: ATITUDE ONGITUE		5' N 00' W															
2	28	2	1963	15.2	15.2	15.2	15.0	14.6	15.3		15.3	35.79	00.00	00.00	00.00	00.00	00.00
4	25	4	1963	23.1	23.2	23.3	21.1	20.3	18.2		17.7	34.66	34.38	34.86	35.53	36.35	36.25
6	18	6	1963	28.2	27.9	27.7	24.9	20.8	18.6		17.9	32.05	34.18	36.41	36.60	36.54	00.00
8	21	8	1963	30.1	29.9	30.0	28.9	23.9	19.9		19.9	33.76	33.69	34.75	36.39	36.35	36.42
	26	10	1963	26.1	26 1	16.1	26.1	26.7	20.0		17.8	35.84	35.61	36.27	35.86	36.41	36.53
10 12	2.0	12	1963	20.4	20.4	20.4	20.4	20.4	17.€		17.6		36.02		00.00	20.00	36.77

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STATION E-44
DEPTH: 7 M
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17	1.7		1:44-3		"	L in	4	74.4		1		1". +.	17.41	16,41	35,99 31,4	2+ : 63 ap : 31
1	-		1.6.4		100	1.7 2.63	. 7.2	4	1	14.	4	18.54	37.37	9 41 9 42	36.64	30. 11 30. e. e.
1.4	1.	-	100-4		118. 118. m	2 12	24.5	-1-1		2.1			3434	32.24	n- 5	14 (5)
		+	1.41.4		35.5			- "		.1	4	24,74	24,78	31 46	35.79	34 . 5 1
		1.	1 + 4		14.7		- 2	27.1		24.	4	. 4.31	11.21	33.4.5	4e.47	(F.47
	1		1 9 4		4.1	. 4. 1	1	-4	4.	4.		H.15	# .IL	36 41 33.87	35.45	% , 46 36 , 13
i	11	1	104		19	14.7	14.2	1914	.1	21.	1	4.52	14.36	34.59	14.50	36.5.
+	11		1.00%		14.7	18.3	17.+	1 +2 5			2 1	.14.55	,14.ER	37.19	15.5.	4r., 4r
	15		1 te 1		15.7	15.8	1+.8	17.0	1"	1 7.	r,	lm.18	24.96	31.88	4.71	Selicon Selicon
	1.1	4	1.00		.4.7	21.7	. 4.5	24.0	14.5	1'**	s, 3 (13.77 0.27	14.50	35.92 36.37	36 . 59 36 . 49	36.50 36.5
30			1 0 5		.4.7 .7.n	27.7	27.5	27411	23.1		1 (11142	21.15	30.44	36.26	31 , 47
	-1		1.075		29.1	24.2	29.4	27.7			1	27,79	.17.79	31.49	36.28	36-, 6-1
14	21.1		1***		222.0	24.0	25.10	25.2	2002	26.7	4	11.78	31.78	33.24	35.4+	36.15
	-4	1.2	1 + 5		11.7	23.7	23.7	23.6	23.4	,13.1	o j	3c.47	00,00	00.00	46.49	11 , D.L.

STATION: E-43
DEPTH: 73 M
LATITUDE: 28°48' N
LONGITUDE: 80°42' W

ruise	Day	Month	Year			T	emperati Depth				_	+				elth =		
				1		11	- 14	4.		1	P	+			1:	. 4		
1	26	1	11901	17.5	17.1	17.4	17."	18.4	18.5		18.4		44,43	34.	1.11	P. Lei	10	.4
	25	- 3	1.00.3	16.4	1+ .5	1+1.11	16.8	17.2	16.79		16.8		.18.15	34 200	1 1	4 0	51.	9 .
3	24	3	1963	19.5	19.7	19.3	19.7	18.	17.1		17.2		14,99	.00.1	1 10	36 411	11	4e . 11
4	27	4	19.3	25.35	24.2	32.7	22.1	201, 1	17.9				.4.15	10.4	1 14	0.1	16. 11	
5	16		1462	27. 1	25.8	. 4. 2	2	1+4	11		11.7		.9.	0.00	1 -			r
6	21	ь	1 463	20.4	28.	.8	25.		1 1 4		11.4		91.12	11.5.	12	46.4	4	F . 4
7	1.3	7	1963	2 4.4	24.00	.24,3	25.3	1 <.4	1.7		1 1		13.49	- 1.4		11	1 .	6.4.
8	20	8	1903	200,00	29.7	30.2	25.1	21.18	11.,+		16 6		31,48	13.54	(2, 7)	B. 45	9 1.	6.11
9	26	4	114.3	27.11	27.9	28.1	28.2	28	26.3		JH. 3		35,50	15, 40	45.74	10.00	-0	0.18
10	2.4	10	196.3	267	26.8	2012/19	27.1		.1.1		18.7		4.18	0.10	46	30.57	0.,04	4.1
11	2.3	11	1003	23. +	23.0	23.19	23.3	4	1.1.4		21.0		9.00	0.062	44 . 1	11.16	1 - 1	.1
12	1.3	1.5	1 + +	22.4	22.4	22.4	21	.1.7	1 + +		19.1		(m., 141)	30.00	2/ . 5, 1		14 1	4 3 4
1.3	2.2	1	1 44.4	19	1 →	1 +.1	10.0	14	17.) F = 4		{r, ,r, }	31., 611	86.16.2	11 . 1	+ .	,1
14	100	2	196.4	17.2	17.2	17.7	1	17.0	1."		10.0		4 47	14, 1,	45.47	314	0.00	41, 11
15	28	2	1964	15.2	15.4	17.3	18.8	18.5	15.		17.4		32.78	12.17	13.50	0.120	0.41	i* 1e
16	24	4	116.4	21.3	21.7	22.0	22.5	225	1 1		18		14,4,3	1.7 _ 1.164	(°, 5)	46. 5	4 1	40.11
17	17	5	144.4	24.6	24.0	25.3	23.3	22.4	1 + 4		1".+-		.4.5	.4.14	2.80	11.34	1.00	F
15	20	+	199-4	17,7	301.2	41.5	, P.,	4 1	1 4,		1 ' -		1800	1000	Se . 1		-	1 4-
19	1.7		1.84 4	296.0	2 4 , 4	.5.4		-4	. 4		1 1		7 (4	114		12.00	1000	ad pa
20	24	8	1 10 4	291, 7	24, 60	28.1	25.4	4 4	1 - 1		19		24.41	94.8	+, 7	46	+ 5 1	p 4
2.1	20		1 + 4	20.b	. 4.5	28. F	_H.H		1 ()		1'+ 1		4.5.	11.00	35.13	151	Fe 6 1	N
2.2	2.5	10	11074	24.8	24.9	.14.8	.14.7	4 +	11.1		17. +		(r, r, r,	34., 4.1	36.49	30.52	34 , 500	41 . 500
2.3	13	11	1964	24.3	24.4	24.5	_4.4	24.4	1 +		19.4		4.24	+ . 4	86.55	F . C F	5	+ , 51
24	11	1.7	1:0-4	24.1	22.	22.3	22.7	2	. 1 . +		19.5		Ac. 54	16.,555	50.04	20, 300	9.50	dough to the
, t	11		1 44 5	21.4	21.6	.1.3	-1.7	.'1.			1.1		9	18 . 7	4 1	E 75	44.5	50s , E -+
25	17	4	1 k+ C	22.5	22.7	.3.5	.2.4	1 (.)	7 i j		1+ . *		.4.5-	1.11		14	+	1.1.1
2.4	2.3	5	1500	.5.1	25.1	25.1	.4.4	. 2	4 1 .		1 < . 3		+ .> 7	0.0	44	24 (4.1	+ , + 1	1.14
	2.1	+,	190.5	24.3	24.4	24.2	-2-1						20,46	1.00	15. 14	35,54	18.44	resident
12	2.1	4	1500 %	27.1	27.1	.50.4	22.5		1 4. 1		1+,4		.19.,111	77.19	1,	45 44	4 ,+4	4.71
1.3	20	19	1 600.0	27.4	17.4	27.4	27.6				4.0		11, 4.6	73.58	15 41	14 115		15.197
14	1.8	1.0	1 -0 5	24.8	25,00	27.	211.5	241.					11.75	71.70	18	44	500000	F 44

Table 4 - "onthly temperature and salimity foresation of the constraints of 4, for -Po's

TATION: E-45
EPTH: 19
ATHRUPE 190 ' 5
COMMITTUDE 194 ' W

									τ				
filse	Dav	Monto	Year	_	_		Temps (4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				_ ".	1,50	
	. 3		1 *+, 2		1	13.2		11.	14+	4.1			
	311		196 (201.4	20.4			20.85	. 8 1			
4	2.8	4	1146.3		241.	2002		4.7	5, 5,				
E .	17	e,	1963		.7.2	25,0			.1.6	. 1			
	- 2	,	1967		24.28	.1.0		.+ . =	10.00	(1			
~	1.2	~	196.3		. 1.1	200			1+	1			
	1 -4	5	1 de 1		.24.4	. 4, .				7 (1)			
	27	a	1 4.3		.17.7	27.0		* .1	25,000	51, 574			
1:1	2.2	10	196 3		.15.1	25.0		4.1	1 + 41	4 25			
11		1.1	1.0.3		.4.8	201.3			441	14.1			
1.1	1.	1.2	196 /		17.2	17							
13	2.5	1	1 44.4		14.7	14		14.1	.4. * *	4.7			
1.4	4		194.4		1	14.7		14.4	.2. 4	44			
15			194.4		14.4	14.5		14.7	3.77	14,59			
1+	. 5	4	1964		23.8	23.7		21.2	18.21	18.21			
1.7	1.7	-	1964		.14. *	24.8		.4.8	16.7	1).81			
1 ⊢	200	+	1'4+4		31.	301,00		4.~	10.0	11.55			
1 -	1.1	-	1964		23.4	29.3		9.14	_7.34	25.15			
_	2.5		1 +0 4		511	301,5		· -	10.17	1.774			
. 1	. 1	-4	1 + 4			36.7		c -	11. 14	-1 0			
	24		1.6-4		21.	.1		21.3	14.01	43.44			
	13	11	1 ++ 4		22.10	22.5		22.0	311,671	Wr. 4.1			
4	1 (1	1 + 4		16.4	10,00		15.9	1.1.7	21.71			
2.5	1.7	1	1.05		10.0	1 1 . €		1 % . 7	1.10	1 1.			
+	1.		1.46.5		le.e	1		14.2	-1.45	11.7			
27	1 e		1.0		1 '. ~	17,7		1+ .+	.5.4.	4.1			
	1 =	-4	1.00						25.74				
4	2.7		105		1.4	. 5.4		.4.1	14.61	10.21			
	22	6	12075		. 1.4	.7.1		21.4	. 25.4+	E 17			
3.1		7	1 # 5		78.5	.18.1		29.1	30.74				
3.3	1 +	4	1 44 "		1917	28		14.2	-1	1 1			
-4		1	1.96					2.14	31.1+				
15		1 -	1 46.1		1 +.	1.2		14.4	1 14				

TATE % 2-14
DEFTH 14 M
ATTITUDE 28 6 45 W

11/e	- 42	watr	irar					Frith (M)					irity (2.00 Dopto (M)	
						1	1.1	24 44 7 7	F			11	.4 41 "	10
	25		1.46		1.5	1.2								
	7.3	1	1 4 3		14.1	15.1	.4.3		14	-4 1 -4.61	4 -	, aH		
1	3.0	,	1.463			11.2	2.1			.1-	4			
4	~ B	4	1 => 3		2"."		.1.1				. 1	. 4.1		
	1.		1 ## 1			10.0	.1.		- 1	28.11	A 7	* , *,		
,	1.	•	1 *+ 3			27.4	. 1.4		Le i	11.81	71.94 46.44	141.54		
н	1 /		1 ++			25.4			Ja. a	-1.198	4	10.04		
4	7	+	. 44 +		. 4.	, Se , 1	, H.		29.	15.78	100	2.00		
		1	3144-3			25.7	.15. ⊬		25.0	~ ~		13 57		
1.	1.7	11	1 44 A			21.3	11.4		11.0	14.47 11.69	-11.94 -11.4	7F. 18		
1	. 3	1	1914			14.7	14.		14.	1.16	v .11	3+115 1714 t		
14	-	2	11+4		15.1	15.7	15.7			75.3A	15.31	15.12		
11	h 4		1 -0 -4			14. •	14.8		14 -	3,46	· * . *1	2.45		
1+	15 17	•	1 #-4			24.1 24.3	.4.1			. 1 61	-7.41	- 6.		
	2	-	1 ++ 4		3	3 .	.4.7		.4.	,e."	10.71	1 . F1 34_45		
1 +	1.2	7	1984			29.2	21.11		26.11	, H. Sr	75	Re. 14		
10	25	Н	144,4			30.2	27.9		17.4	.6.13	_6.1	1,0 45,		
21 22	21	. +	1 ++ 4			28.6	28.5		28.5	:1.3	() . HI	31.88		
. 3	11	1	1 464			22.8 21.6	221H 231		22.8 24.7	13.89 . (.3+	13.81	13,94		
. 4	in	1.	1 + 4			18.3	17.4		17.4	13.28	1 74	11,14		
ı L	1 =	1	19+1		15.4	15.4	10		18.5		'- '1	14. 5		
	1.7	3	1965	1		19.1	1 - 1		1 + - 1	44.48	34.42	54.55		
27 . H	16 18	4	1965 1 +∈5			17.5	1+ - 5		16.3	30.67	37.4-	32,18 55,50		
. 4	12	5	1965	1		25.0	2		24 1	2h.44	27,03	32.43		
31,	1.2	+	1.36 %		. 7.8	27.8	27.3		26.5	.5.69	25.78	30.14		
1 m	2.2	r=	1 +6 5		"H.3	28.7	28.		28.2	31.19	317. HP	33,8-		
14	29	111	1 # 5			28.3	28.3		28.	31.94	7	32.01		
35	- 2	1.2	1 44 5			20.6	11.4		201.4	32.14 33.62	32,18	33.48		
	F+2's													
TTUDE	.8 M 28 ⁰ 33 E. 90 ⁰ 4	31 N 1 11 W												
TTUDE	29°31 E. 90°4	1 ' W	1943		17 1	17 1	1.7	17	17	7.1 No.	W. 114	20 2.4	ys. 51	
TTUDE	29133	31 N 4 11 W	19+3 1963			1~.1 16.4	17. 10.4	17.1	17 . 18.8	34.8e	W., mr - 38. 1.	35.34 36.15	35.51 v.18	
ITUDE LITUD	29 ³ 33 E. 90 ³ 4 27 23 2+	1 / W 1 2 3	1963 1 %3		1n. 4 14, 7	16.4 19.7	17. 10.4 14.	16.4 16.9	16.8	3+.OF 35.53	36.1.	35.34 36.15 35.47	35,51 %,18 35,98	
TTUDE LITUE: 1 2 3 4	29 ³ 33 E. 90 ³ 4 27 23 2+ 23	1 1 W	1963 1+63 1+63		16.4 19.7 23.1	16.4 19.7 22.8	1+. 1+. 24	16.4 18.9 19.4	16.8 18.9 19.9	3+.0F 35.53 35.85	36.1. 35.44 35.69	3r.15 :5.4° 36.34	9.18 35.98 55.42	
TTUDE LITUE: 1 2 3 4 5	29°31 E. 90°3 27 23 24 23 16	1 1 W	1963 1 +63 1 +63 1 +63		16.4 19.7 23.7 25.7	16.4 19.7 22.8 26.4	14.	16.4 18.9 15.4 11.+	16.8 18.9 19.9 21.2	3+.0F 35.53 35.85 31.47	36.1. 35.44 35.69 41.50	3⊬.15 ±5.4° 3€.34 34.92	0.18 35,08 50.42 30.02	
ITCLE	29 ³ 33 E. 90 ³ 4 27 23 2+ 23	1 1 W	1963 1+63 1+63		16.4 19.7 23.2 .6.7 28.4	16.4 19.7 22.8	10.4 14. 2.4 .71 25.1	16.4 18.9 19.4 21.5 21.5	16.8 18.9 19.9 21.2 21.9	3+.0F 25.53 35.85 31.47 33.17	36.1. 35.44 35.69 41.59 43.18	3r.15 :5.4° 36.39 34.92 33.60	9.18 35.98 55.42	
TTUDE ITUD: 1 2 3 4 5 6	29°31 E. 90°3 27 23 2+ 23 16 21 13	1 1 W 1 2 3 4 5 5 6 7 8	1963 1463 1463 1463 1963 1963		16.4 19.7 23.1 26.7 28.4 29.6	16.4 19.7 22.8 26.4 28.4 29.8	10.4 14. 2.4 .*.0 2n.1 .24.7	10.4 10.0 10.0 11.0 21.0 22.4 23.0	16.8 18.9 19.9 21.2 21.9 21.9 23.9	34.08 35.53 35.85 31.47 33.17 41.85 33.94	36.1. 25.44 25.69 41.59 43.18 31.76 00.00	36.15 25.47 36.39 34.92 33.60 33.77 24.35	0.18 35,08 66,42 36,02 36,21 36,39 36,27	
ITUDE ITUD: 1 2 3 4 5 6	29°31 E. 90°3 27 23 24 23 16 21 13 19 26	1 ' W 1 2 3 4 5 5 6 7 8 9	1963 1463 1463 1463 1963 1963 1463		16.4 19.7 23.2 25.7 26.4 29.6 29.6 29.9	16.4 19.7 22.8 26.4 28.4 29.8 30.1	10.4 14. 25.4 25.1 25.7 26.1 26.1	10.4 16.7 10.5 11.5 21.4 22.4 23.0 28.1	16.8 18.9 19.9 21.2 21.9 21.9 23.9 28.0	3+.08 25.53 35.85 31.47 33.17 41.85 33.94 1 36.15	36.1. 35.44 35.69 41.50 43.18 31.76 00.00	36.34 36.34 34.92 33.60 33.77 24.45 36.31	0.18 15.08 6.42 9.102 36.21 30.39 36.27 36.48	
ITUDE ITUD: 1 2 3 4 4 5 6 6 7	29°31 E. 90°3 27 23 24 23 36 21 13 19 26	1 1 4 8 2 3 4 5 6 6 9 10 10 10 10 10 10 10 10 10 10 10 10 10	1963 1 +63 1 +63 1 463 1963 1963 1963 1963		16.4 19.7 23.1 26.7 28.4 29.6 29.6 29.9 28.2 26.2	16.4 19.7 22.8 26.4 28.4 29.4 30.1 28.2	1+.4 1+. 24 	16.4 16.9 19.4 11.4 21.3 22.4 23.0 48.1 26.5	16.8 18.9 19.9 21.2 21.9 21.9 23.9 28.0 26.6	3+.08 25.53 35.85 31.47 33.17 41.85 33.94 1.36.15 1.34.44	36.1. 25.44 35.69 41.59 43.18 31.76 00.00 46.24 46.72	3F.15 :5.47 36.34 34.92 33.60 33.77 24.35 36.31 36.31	9.18 50.08 60.42 50.02 30.21 30.39 30.27 31.48 30.35	
ITUDE ITUDE 1 2 3 4 4 5 6 6 7 8	29°31 E. 90°3 27 23 24 23 16 21 13 19 26	1 ' W 1 2 3 4 5 5 6 7 8 9	1963 1463 1463 1463 1963 1963 1463		16.4 14.7 23.1 16.7 28.4 29.6 29.9 28.2 26.2	16.4 19.7 22.8 26.4 28.4 29.8 30.1	10.4 14. 25.4 25.1 25.7 26.1 26.1	10.4 16.7 10.5 11.5 21.4 22.4 23.0 28.1	16.8 18.9 19.9 21.2 21.9 21.9 23.9 28.0	3+.08 25.53 35.85 31.47 33.17 41.85 33.94 1 36.15	36.1. 35.44 35.69 41.50 43.18 31.76 00.00	36.34 36.34 34.92 33.60 33.77 34.45 36.31	0.18 15.08 6.42 9.102 36.21 30.39 36.27 36.48	
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TATION TO THE TOTAL THE TOTAL TO THE TOTAL T	75 M E 24 1 25 25 25 25 25 25 25 25 25 25 25 25 25	4 1 1 4 5 5 7 7 6 5 7 7 6 6 7 7 6 6 7 7 6 7 7 7 6 7 7 7 7	1 40 4 1 10 3 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 4 140 5 140	14	176. 186. 24.11 25.6 28.4 26.6 27.7 24.0 21.0 21.0 25.6 25.7 24.0 25.7 26.6 25.7 26.6 26.6 26.6 26.6 26.6 26.6 26.6 26	14.0 19.0 20.9 5.1 28.3 39.7 37.0 27.0 27.0 27.0 21.4 16.0 19.0 25.7 5.0 26.6 29.6 29.6 29.6 29.6 29.6 29.6 29.6	13.1 15.1 20.5 24.6 27.2 26.0 27.7 24.0 21.5 21.5 21.5 21.5 21.5 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7	130 150 150 200 200 200 200 200 200 200 200 200 2	1 0 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	94, 76 6, 77 6, 77 6, 65 6, 75 63, 79 44, 14 37, 65 6, 14 6,	7 4 4 7 7 4 7 7 7 8 7 7 8 7 7 9 1 9 1	46 (4.57) (4.57) (4.56) (4.55)	0 41 0 +1 0 +1 0 +0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	6 47 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	61 64 641 641 64 64 64 66 6
TATE WAS PROPERTY OF THE PROPE	75 M EVE - 40 / 26 23 25 16 21 13 17 24 14 19 11 124 15 17 17 17 17 17 17 17 17 17 17 17 17 17	41 0 4 5 4 5 5 6 5 6 7 7 6 6 6 6 7 7 6 7 7 6 7 7 7 7	1 + r + 1 + 1 + r + 1 + r + 1 + r + 1 + r + 1 + 1	19	176. 186. 24.1 186. 24.1 186. 28.4 4.20. 28.4 4.20. 27.7 27.0 18.0 18.0 18.0 28.4 20.6 20.2 24.9 26.1 18.0 28.1 18.0	14.0 14.0 26.4 25.1 28.3 30.0 20.6 20.6 21.6 21.6 26.6 26.6 26.6 26.6 26.6 26	1 0.1 15.1 20.5 22.1 20.0 7.2 20.1 20.0 20.5 11.9 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	170 150 160 200 200 200 200 200 200 200 200 200 2	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 (17) (18) (18) (18) (18) (18) (18) (18) (18	01, 74 0, 7 0, 7 0, 6 0, 6 0, 6 0, 6 0, 7 0, 6 0, 7 0, 6 0, 7 0, 6 0, 7 0, 6 0, 7 0, 7	7 (4) (4) (4) (4) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	46 (4.5%)	0 41 9 +1 9 (41 9 (41 9 (41 9 (41) 9 (41) 9 (42) 9	47 47 44 44 44 44 44 44 44 44 44 44 44 4	6
TATE ON FEFT CONTROL OF THE CONTROL OF T	75 M E: 26 1	44 70 44 70 W 1 1 1 1 1 1 1 1 1 1 4 5 5	146 4 146 3 146 3 146 3 146 3 146 3 146 3 146 3 146 3 146 3 146 4 146 5 146 5	19 194 214 237 284 244 271 240 214 130 164 130 164 234 263 296 212 216 216 216 216 216 216 226	116. 116. 226. 226. 226. 226. 226. 226.	14.5 19.2 20.9 25.1 28.3 24.7 25.0 27.6 21.4 16.2 19.0 25.7 25.4 29.6 29.4 25.2 24.8 22.5 21.9 24.8 22.5 21.9	13.1 15.1 20.5 20.7 20.1 20.0 20.7 20.7 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	150 150 150 200 200 200 200 200 200 200 200 200 2	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17	91, 76 96, 77 97, 76 91, 45 91, 45 91, 75 91, 75 91, 75 91, 75 91, 75 91, 75 91, 93 91, 93	7 4 4 7 4 6 7 4 7 6 7 6	4e	0 41 9 +1 9 (61 1 60 1 61 1 62 1 63 1 63 1 63 1 63 1 63 1 63 1 63 1 63	47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	6
TATE WAS PROPERTY OF THE PROPE	75 M EVE	4 1 2 4 5 4 5 5 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 7 7 8 7 8	1 40 4 1 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 5 140	19	176. 156. 24.1 176. 276. 276. 276. 276. 276. 276. 276. 2	14.0 19.0 20.9 5.1 28.3 39.7 37.0 27.0 27.0 27.0 21.4 16.0 19.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	1 0.1 15.1 20.5 20.1 24.6 27.2 26.1 20.1 14.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	150 150 200 200 200 200 200 200 200 200 200 2	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	18 (18 (18 (18 (18 (18 (18 (18 (18 (18 (60, 70 6, 77 6, 60, 65 60, 65 60, 65 60, 79 64, 64 60, 63 60, 63	7 4 4 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	4e (1,5), (4,7),	6 41 6 41 6 41 6 41 6 41 6 41 6 41 6 41	47 47 61 44 61 61 44 61 61 61 61 61 61 61 61 61 61 61 61 61	6
TATE ON PERCENTIFUE OF THE PERCE	75 M EF A A A A A A A A A A A A A A A A A A	41 70 44 70 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 +0 +1 10 +1 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 4 140 4 140 4 140 4 140 4 140 4 140 5 140	19 19 21 23 25 25 27 27 27 21 24 25 21 23 26 28 26 29 21 21 22 26 21 21 22 24 26 27 21 22 24 26 21 22 24 26 21 22 24 26 21 22 24 26 21 22 24 26 21 22 24 26 21 22 24 26 21 22 24 26 26 21 22 24 28 28	176. 184. 2014 2014 2014 2014 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018	14.5 14.5 20.9 20.9 25.1 28.3 24.5 21.6 21.6 21.6 21.6 24.8 22.5 21.6 24.8 22.5 21.6 23.1 24.8 22.5 21.6	13.1 15.1 20.5 24.6 7.2 26.1 20.0 7.7 20.6 23.6 21.6 21.6 21.6 21.6 23.7 26.7 28.7 29.1 25.7 26.7 24.7 22.4 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7	175, 151, 5, 151, 5, 251, 6, 2	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 (17) (18) (18) (18) (18) (18) (18) (18) (18	91, 79 90, 71 91, 61 91, 65 91, 75 91, 75	7 d (1.7 d) (1	46 (5.5) (4.5) (5.5) (4.5) (5.5) (4.	0 41 9 +1 9 (61 8 (61 8 (76 8 (76) 8 (76 8 (76) 8 (47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	6
TATE OF THE PROPERTY OF THE PR	75 M EVE	4 1 2 4 5 4 5 5 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 6 7 7 8 7 7 8 7 8	1 40 4 1 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 3 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 4 140 5 140	19	176. 156. 24.1 176. 276. 276. 276. 276. 276. 276. 276. 2	14.0 19.0 20.9 5.1 28.3 39.7 37.0 27.0 27.0 27.0 21.4 16.0 19.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	1 0.1 15.1 20.5 20.1 24.6 27.2 26.1 20.1 14.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	150 150 200 200 200 200 200 200 200 200 200 2	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	18 (18 (18 (18 (18 (18 (18 (18 (18 (18 (60, 70 6, 77 6, 60, 65 60, 65 60, 65 60, 79 64, 64 60, 63 60, 63	7 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4e (1,5), (4,7),	6 41 6 41 6 41 6 41 6 41 6 41 6 41 6 41	47 47 61 44 61 61 44 61 61 61 61 61 61 61 61 61 61 61 61 61	6

STATION E-49
DEPTH: T M
LATITUDE 29 // N
LATITUDE 42 /0 M

2 3 4 5	21	Month	Year	0	3	11	24	h (M) 43	70	107	Б	0	3	11	Depth 24		70	10
4 5																		10
4 5			1963	12.6	12.4						12.1	29.78	30.95					
4 5	30	2	1963	20.8	20.8						20,2	30.82	30.82					
	21	4	1963	23.2	23.1							22.40	24.€9					
	18	5	1963	26.4	26.4						26.3	29.84	29.85					
6	23	6	1963	28.3	28.3						28.3	30.94	30.93					
7	12	7	1963	29.3	29.6 29.9						28.4 29.9	25.35 32.07	27.93 32.07					
B 9	23 27	8	1963 1963	29.9 25.7	25.8						26.3	32.15	31.93					
10	22	10	1963	24.8	24.7						24.6	33.27	33.25					
11	22	11	1963	20.4	20.3						19.9	33.12	33.05					
12	11	12	1963	16.2	16.2						16.0	33.99	33.96					
13	23	1	1964 1964	9.6 11.9	9.1						10.1 12.8	31.44	31.81 32.89					
14 15	8	2	1964	13.3	13.3						13.6	00.00	31.77					
16	25	4	1964	25.9	25.5						24.5	20.93	20.81					
17	16	5	1964	25.2	25.2						25.4	23.64	23.81					
16	18	6	1964	29.3	29.3						29.2	26.02	25.99 27.17					
19	13	7	1964	28.6 30.4	28.6 30.3						28.5 30.0	27.18 30.35	30.38					
20 21	25 21	8 9	1964 1964	28.3	28.2						28.2	31.96	31.96					
22	25	10	1964	21.2	21.3						21.3	31.86	31.79					
23	14	11	1964	22.8	22.5						22.6	30.47	30.61					
24	12	12	1964	15.0	15.1						15.4 16.7	31.38 33.60	33.01 33.38					
25 26	16 13	1 2	1965 1965	16.7 17.3	16.7 17.3						17.3	34.18	20.18					
27	16	3	1965	16.6	15.8						15.2	35.20	20.18					
28	19	4	1965	23.7	23.8						23.5	13.64	20.87					
29	20	5	1965	26.1	26.0						25.9	27.44	27.47					
30	24	6	1965	29.2	29.1						29.0 29.1	28.44	28.78 29.92					
32 34	24 30	9 10	1965 1965	28.0 21.5	28.5 21.5						21.5	29.78	29.72					
35	5	12	1965	15.5	17.7						18.3	00.00	30.05					
ONGITUI	E: 29 [°] 0 DE: 92 [°]	20' W																
1	22	1	1963	12.1	11.9	11.8					11.9	33.24 31.95	33.13	33.1 34.1				
2	21 30	2	1963 1963	13.8 20.4	13.8	20.2					20.2	33.91	33.82	33.9				
4	22	4	1963	23.4	23.3	22.6					20.8	31.63	31.85	33.8				
5	18	5	1963	26.8	26.8	24.4					24.0	29.15	29,22	35.8				
6	23	6	1963	28.4	28.4	28.4					26.7	31.20	31.05	31.5				
7	12	7	1963 1963	29.6 30.3	29.4	25.8 30.5					25.6 30.4	35.83 32.82	30.76 32.97	30.2				
8	23 27	8 9	1963	26.8	26.8	26.8					26.8	32.80	32.70	32.9				
10	22	10	1963	25.3	25.2	25.2					25.1	34.07	33.73	33.7				
11	21	11	1963	19.9	19.9	19.9					19.8	33.47	33.48 34.09	33.5 33.9				
12	11	12	1963	16.6 10.6	16.6 10.4	16.1 9.9					16.1 9.9	34.11 33.38	34.09	33.5				
13 15	2.3	1	1964 1964	13.8	13.7	13.8					14.4	33.09	32.93	33.2				
16	25	4	1964	23.0	22.9	22.7					22.4	20.89	29.98	28.9	2			
17	16	5	1964	25.2	25.1	25.1					25.0	00.00	00.00	00.0				
18	18	6	1964	29.2	29.1	27.7					25.4 26.6	29.24 27.20	29,70 27,43	32.4 35.7				
19	13	7	1964	28.6 30.4	28.6	28.7					28.1	32.73	31.17	31.9				
20 21	25 21	8	1964 1964	28.2	28.2	28.2					28.2	32.17	32.19	32.1	6			
22	24	10	1964	21.7	21.7	21.2					20.8	32.03	32,23	32.3				
23	14	11	1964	22.9	22.9	22.9					22.9	34.45	34,39 33.89	34.4 34.0				
24	12	12	1964	15.0	15.3 16.0	15.8 16.0					15.8 16.0	32.58 33.21	33.20	33.2				
25 26	16 13	1 2	1965 1965	16.0 17.4	17.4	17.4					17.4	34.49	34.48	34.5	0			
27	16	3	1965	16.6	16.4	16.1					16.1	33.56	35.58	34.1				
28	19	4	1965	23.2	23.2	22.6					22.6	32.06	32.01	33.2				
	20	5	1965	25.4	25.3	25.2					25.0 28.5	33.28 30.48	33.44 30.50	33.6 33.3				
29		6	1965	29.4	29.3	28.6												
30	24		1965	70 7	2H 7	29 1					29.1	30.55	30.42	31.7	2			
	24 24 30	8	1965 1965	28.7 21.6	28.7	29.1 24.0					29.1 24.5	30.55 29.78 33.42	30.42 29.85 33.13	31.7 31.6 33.6	0			

STATION E-11 DEPTH: 28 M LATITUDE: 28 55' N LONGITUDE: 42 20' W

						r	-min-rati	11/_ 1				al	init, b	
rurse	Day	Month	Year				Tury to	180	11.7 B		-,	11	Degith (II)	
					3 -	11	- 4	41	107 B		,	- 1	4	- 4
1	22	1	1963	15.5	15.5	15.4	15.5		15.5	11.22	(4, 0.1	45.15	(6, 17	
2	21	2	1963	13.9	14	14.7	15.7		15.7	13.36	64-12	-4 AH	15	
4	30	3	1963	201.1	201.0	19.9	19.7		19.7	(4. +1	(4) (3.7	15.54	
-4	22	4	1963	22.4	22.4	21.0	2.1		200, 6	4°.01	34, 11k1	80.10	# ,44	
£,	15	1,	1963	27.0	,15, E	24 %	22.2		22,3	3.1. 6.7	Po. 76	or an	641 July 12	
6.	20	6	1963	28.9	28.9	28.1	23.0		.4.9	11	31. th	5.7	35 . 10	
1	11	7	196.3	20.8	. 4. 7	201,4	25.1		. 1,4	001-1001	5 \$ +124	14 55	30 . 4 1	
Н	18	8	1963	23.7	2 4. 7	311.1	24.4		.4.4	12,53	41.42	31,14	38 28 7 35 47	
10	23 21	9 10	1963	25.9	28. + 26.2	28,9	29.0		7914 8112	15.20	35.24	15. 14		
11	21	11	1963 1963	22.3	22,3	22.3	7			15 J. F	35,61	25. 1.1	15 311	
12	11	1.2	1963	19,9	19.9	19.8	1900		10.5	9.41	9.11	46. 2.3	'e . 1	
13	14	1	1964	16.7	16.7	16.7	10.55		15.1	H I	·6.7.	5x., H	11.00	
15	2	3	1964	15.3	15.0	15.0	15.00		15.00	14.85	25.34	35.4	15 15	
1+-	2.3	4	1 +6.4	21.7	21.7	.'1.7	21.0		11,	94., H5	H . m 1	J. 4	4 - 51	
17	10		1964	. 4.4	. 4. 4	. 4.4	24		4.1	4 . (*	9E 4E	6.41	74 - 4	
18	1н	4	1964	. 29.1	28.1	. 2.+	.9		25 to 1	+ + 197	9	Ara Til	14 , 6 4	
1.4	1.3	7	1944	28.3	24.4	26.4	1			11. 214	14.15	01.47	18. 1. 2	
20	25	5	134.4	29.7	28.4	29.7	7.4		1.4 .+ a	7, % 7 14	32.71 33.08	12 63.474	21 . 7	
2.1	22	9	1964 1964	13. 7	28.4	23.5	2015			1 115	11.98	14.52	4 . 16	
22	14	11	1964	23.6	23.6	23,0	15.0		1.6	+1 +10	30,54	15.68	36	
24	1.	1.2	1964	18.5	14.5	19.1	16.6		Le. B	15.07	35.54	45.28	00.00	
14	16	1	1961	1+.4	1 + 1	13.4	1 + 1 %		114.7	15.4.	15,411	15.67	35.14.2	
27	14	1	1465	17.0	1~	17.2	16.		1+ .5	40,40	10.44	35.70	⇒ ±7	
_8	114	4	1 -16, 5,	22.3	2212	2220	.0.			* Bo	U. P.7	+ , 1×	44.3H	
29	25	i,	1965)	25.3	25.4	25,0	1. 1		¥. 1	H ₁ 90	4 . 7 1	1+ .71	36.72	
30	1.3	+-	1965	28.5	28.3	27.7	-12.1		. 7.	4 60	0 41	361, 54	464,24	
3.2	24	8	1965	22,4	23.3	24.2	25.0		26.38 24.4	31.74 32.82	1. 08	32,30 37,18	34.77	
	30	10	1965	44.4										
PTH -	2 E+10 46 M	12 21 H	1965	22.4	22.4	22.3	22.2		.2	45.J¥	₹°., •	45.25	15.24	
35 ATION PTH: TITUD	2 E+10	21 11	1965				22.2		.2.2	15, Ju	35+	45. JS	₹5 +	
35 ATION PTH: TITUD	2 : E+10 :46 M :. 28 3	21 11	1965 1963				18.4	17 -	17.6 .	sk., 5,}	4	{+, ÷*	(e . ^{5 -}	ık.
35 ATION PTH: TITUD	2 - E+10 - 46 M E 28 3 DE 92	af b Int W		22.4	22.4	22.3		17 - 17 .			\$6 . * * \$6 . * *	16. fr 36.,54	36 . 5 T	4 -
35 CATION CPTH: STITUD ONGITU	2 : E+10 : 46 M E. 28 3 DE. 92 5	ar b ant w 1	1963 1963	16.7 17.3 10.2	18.7 17.3 20.1	18.n 17.3 20.1	18.4 17.2 19.7	17	17.8	sk.51 3k.57 3k.k.1	11 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1	#1 /* #1,54 #5 e7	(€ _ = = - (€ _ = = d♥ _ = 4	11 F
35 ration cepth: atitue ongitu 1 2 3 4	2 6 E-10 46 M 6. 28 3 DE. 92 29 21 28 28	27 8 201 W	1963 1963 1963 1967	16.7 17.3 10.2 24.F	18.7 17.3 20.1 24.5	18.n 17.3 20.1 24.4	18.4 17.2 19.7 22.6	17 . 1+.4 .1.7	17.6 17.6 17.6 14.2	56.57 56.57 56.61 46.65	16 , 1 7 37 , 8 7 37 , 16 4 37 - 16 7	44, 54 44, 54 36, 67 46, 58	36 . 27 37 . 4 37 . 4 31 . 54	36 44 36 47
35 PATION EPTH: WTITUD NGITU 1 2 3 4 5	2 6 E+10 46 M 1. 28 3 DE. 92 2 24 21 28 28 28 15	2' N 210' W	1963 1963 1963 1963	16.7 17.3 10.2 24.6 25.2	18.7 17.3 20.1 24.5 25.0	18.n 17.3 20.1 24.4 24.7	18.4 17.2 10.7 22.6 24.3	17 . 1 *.4 -1.7 4	17.6 17.6 17.6 14.7 20.7	00.51 30.57 30.61 40.65 40.41	6 . 1 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2	46, 64 36, 54 36, 67 46, 59 46, 30	3+ 1,57 4+ 1,5 3+ 34 3+ 5+ 3+ 1,+ 5	36 47 36.47 36.47
35 FATION EPTH: ATITUD ONGITU 1 2 3 4 5	2 6 E+10 46 M 1. 28 3 DE. 92 2 24 21 28 28 15 20	21 B 201 W	1963 1963 1963 1967 1963 1963	16.7 17.3 10.2 24.F 25.2 28.7	18.7 17.3 20.1 24.5 25.0 26.4	18.6 17.3 20.1 24.4 24.7 28.2	18.4 17.2 10.7 22.6 24.3 24.1	17 . 1 *. 4 . 1 . 7 4 . 1 . 7	17.6	34.57 34.57 34.41 34.07	00.17 97.87 95.84 97.30 98.30	60, 54 30, 54 30, e7 4e, 50 4e, 30 34, 14	44 , 57 44 44 54 54 54 54 54 54 54 54 54 54 54	36.45 36.45 36.3.
35 PATION PPTH: WIITUD NGITU	2 6 E+10 46 M 5. 28 3 50 E. 92 29 21 28 28 15 20 11	21 8 201 W	1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 24.0	18.7 17.3 20.1 24.5 25.0 28.4 29.6	18.6 17.3 20.1 24.4 24.7 28.2 21.4	18.4 17.2 19.7 22.6 24.3 24.1 23.8	17 . 1 4 . 4 . 1 . 7 4 . 1 . 7 4 . 1 . 7 4 . 1 . 7	17.6 17.6 17.6 11.2 20.7 20.0 21.0 21.0	54.57 54.57 54.41 44.07 43.83	60.57 55.64 55.64 56.57 56.30 605.30 34.23	46, 64 36, 54 36, 67 46, 59 46, 30	3+ 1,57 4+ 1,5 3+ 34 3+ 5+ 3+ 1,+ 5	36 47 36.47 36.47
35 FATION EPTH: ATITUD ONGITU 1 2 3 4 5	2 E+10 46 M	2' N 210' W	1963 1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 29.0 29.7	18.7 17.3 20.1 24.0 25.0 26.4 29.6 29.7	18.6 17.3 20.1 24.4 24.7 28.2 29.4 29.7	18.4 17.2 19.7 22.6 24.3 24.1 28.1	17 . 1 4	17.6 17.6 17.6 14.2 20.7 21.0 21.0 21.0 21.15	34.57 34.57 34.41 34.07	00.17 97.87 95.84 97.30 98.30	36, 54 36, 64 36, 67 36, 58 46, 30 34, 19 34, 62	44 , 57 41 , 5 34 , 4 34 , 5 44 , 45 35 , 44 35 , 51	36 47 36.47 36.3. 36.1. 36.44
35 FATION EPTH: ATITUD ONGITU 1 2 3 4 5 6 7 8	2 6 E+10 46 M 5. 28 3 50 E. 92 29 21 28 28 15 20 11	21 B 21 W 1 2 3 4	1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 24.0	18.7 17.3 20.1 24.5 25.0 28.4 29.6	18.6 17.3 20.1 24.4 24.7 28.2 21.4	18.4 17.2 19.7 22.6 24.3 24.1 23.8	17 . 1 4 . 4 . 1 . 7 4 . 1 . 7 4 . 1 . 7 4 . 1 . 7	17.6 17.6 11.2 10.7 10.0 21.0 21.0 21.5 75.3 26.7	w . 51 3r . 57 3r . 61 4r. 65 46 . 41 34 . 77 33 . 83 15 . 20 3r. 64	4 54 54 630 6030 6030 6140 6140 6140	46, 54 56, 54 56, 67 66, 30 34,19 34,62 66,19 36,19 36,40	34 (57) 34 (4) 34 (4) 34 (5) 35 (4) 35 (5) 34 (5) 34 (5)	36, 46 36, 46 36, 47 36, 17 36, 44 36, 61 36, 47 56, 47
35 ration EPTH: ATITUD ONGITU 1 2 3 4 5 6 7 8 4	2 E-10 46 M 28 3 5 E 92 5	2. B 21. W 1 2 3 4 6	1963 1963 1963 1963 1963 1963 1963 1963	1 15.7 17.3 10.2 24.6 25.2 28.7 29.6 29.7 29.6	18.7 17.3 20.1 24.3 25.0 28.4 29.7 28.9	1816 17.3 20.1 24.4 24.7 28.2 20.4 20.7 28.7 24.2	18.4 17.2 19.7 22.6 24.3 24.1 23.8 28.1 28.7 24.7	17	17.6 17.6 19.7 19.7 19.1 21.0 21.0 11.5 25.3 24.0	# .51 # .57 # .11 # .65 # .17 # .13 # .13 # .13 # .14 # .16 # .77	6	(n. 7) 01.54 30 e 7 3e .5 P 34.19 34.14 36.19 4, 44 4, 48	4 (37) 4 (3) 3 (4) 3 (4) 3 (5) 3 (5) 3 (5) 3 (5) 3 (5) 3 (7)	36, 47 36, 47 36, 47 36, 3, 36, 17 36, 44 36, 51 26, 47 76, 60 36, 8,
35 PATION PATION PATION TITUD PAGITU 1 2 3 4 5 6 7 8 4 10 11 12	2 E-10 46 M 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A	27 H 201 W 1 2 3 4 4 6 6 7 7 7 11 11	1963 1963 1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 29.0 29.7 24.3 21.4	18.7 17.3 20.1 24.5 25.0 28.4 29.7 28.9 20.7 28.9	1816 17.3 20.1 24.4 24.7 28.9 26.4 26.7 28.9 26.7 24.2 21.7	18.4 17.2 19.7 22.6 24.1 23.8 28.7 28.7 24.2 21.7	17 . 114.4 . 11.7	17.8	w . 51 3r . 57 3r . 61 3r . 65 46 . 41 34 . 73 3r . 28 3r . 20 3r . 77 36 . 70	61,17 52,167 55,167 561,30 601,30 601,30 601,40 601,80 601,80 601,80	66, 64 36, 67 46, 59 46, 30 34, 62 36, 19 36, 19 46, 83 36, 82	(c., 27) (c., 6) (d., 6) (d., 6) (d., 7) (d.,	36, 47, 36, 47, 36, 47, 36, 37, 17, 26, 44, 36, 51, 26, 47, 76, 60, 80, 80, 80, 80, 80, 80, 80, 80, 80, 8
35 FATION EPTH: ATITUD DONGITU 1 2 3 4 5 6 7 8 4 10 11 12 13	2 E-10 46 M G 46 M G 52 G	27 H 201 W 1 2 3 4 6 6 7 7 10 11 12 12	1963 1963 1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 29.0 29.7 29.0 26.7 24.3 21.9	18.7 17.3 20.1 25.0 26.4 29.6 29.7 28.9 20.7 24.9 21.9	18.6 17.3 20.1 24.4 7 28.2 20.4 26.7 28.9 26.7 24.7 24.7 27.5	18.4 17.2 19.7 22.6 24.3 24.1 23.8 28.7 24.7 24.7 24.7 16.6	17 . 1 1 (.4	17.6 17.70 11.2 10.7 10.1 12.1 10.1 12.1 10.1 12.1 11.5 12.1 12.1 12.1 12.1 12.1 12	w . 51 3r . 57 3r . 67 3r . 64 3r . 64 34 . 07 33 . 33 35 . 28 36 . 76 36 . 70 36 . 70 36 . 70	4	(i) 7+ (i) 74 30 e7 (i) 80 14-34 34-14 34-62 (i) 14 36-14 36	6 . 5 7 5 . 4 3 . 5 1 6 . 15 3 . 14 3 5 . 5 1 3 . 15 3	36, 47, 36, 47, 36, 47, 36, 47, 36, 51, 76, 47, 76, 60, 81, 48, 86, 81, 81, 86, 81, 83, 81, 83, 81, 83, 81, 83
35 FATION EPTH: ATITUD ONG ITU 1 2 3 4 5 6 7 8 4 10 11 12 13 15	2 E-10 46 M 0 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2° H 1 20° W 1 2 3 4 4 6 6 7 7 6 7 11 11 12 11 12 13 3	1963 1963 1963 1963 1963 1963 1963 1963	1 15.7 17.3 10.2 24.6 25.2 28.7 29.6 29.7 29.0 26.7 24.3 11.4 17.6	18.7 17.3 20.1 24.5 25.0 28.4 29.7 28.9 24.7 24.3 21.9 11.9	1816 17.3 20.1 24.4 24.7 28.2 4.9.7 28.9 24.2 21.7 16.7	18.4 17.2 19.7 22.6 24.1 23.8 28.1 26.7 24.2 21.7 24.2 11.6 16.6	17	(7.8) 17.6 14.7 10.7 10.7 21.0 21.0 21.0 21.0 21.1 24.0 21.1 16.0	w .51 9 .57 8 .15 40.65 46.41 34.17 33.28 30.28 30.28 30.64 46.77 36.70 36.69 36.81	6	60, 50, 54, 50, 54, 56, 56, 56, 56, 56, 56, 56, 56, 56, 56	(i) 277 (i) 314 (i) 315 (i) 31	36, 47, 36, 47, 36, 47, 36, 47, 36, 51, 76, 47, 76, 60, 81, 76, 82, 76, 83, 76, 80, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76
35 EATION EPTH: EXTITUD INGITU 1	2 E-10 46 M 2 28 3 5E 28 28 28 28 15 20 11 18 23 21 11 19 2 2 2 3	21 H 21 H 1 2 3 4 6 6 7 7 6 1 1 1 1 2 1 1 3 4 4	1963 1963 1963 1963 1963 1963 1963 1963	16.7 17.3 10.2 24.6 25.2 28.7 29.0 20.7 24.3 11.9 17.6 16.7 21.7	18.7 17.3 20.1 24.5 29.0 28.4 29.7 28.9 20.7 24.3 21.9 17.6 16.7	18.6 17.3 20.1 24.4 24.7 28.9 20.7 28.9 20.7 21.7 17.5 10.7 21.4	18.4 17.2 19.7 22.6 24.3 24.1 23.8 28.7 26.7 24.7 24.7 16.6 19.9	17 . 1 1 (4) 1 1 (7) 1 1 (1 4) 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.6 17.6 14.2 10.7 20.0 21.0 (1.5 25.3 26.7 24.0 16.0 16.0 16.3	w .51 w .57 w .11 46.41 34.07 33.28 36.20 36.70 36.70 36.86	6.1. 6.1.4 7.5.1.4	6, 7, 6, 6, 6, 64, 56, 67, 67, 67, 67, 67, 67, 67, 67, 67, 6	6 (37) 6 (4) 30 (4) 40 (5) 40 (4) 35 (4) 35 (5) 30 (5) 30 (5) 30 (6) 40 (6)	36, 44, 36, 47, 36, 47, 36, 44, 36, 51, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76
35 PATION PTH: PTH: TITUD NGITU 1 2 3 4 5 6 7 8 4 10 11 12 13 15 16 17	2 E+10 46 M	27 H 101 W 1 2 3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1963 1963 1963 1963 1963 1963 1963 1963	16,7 17,3 10,2 24,F 25,2 28,7 29,0 29,7 29,0 20,7 21,4 17,6 16,7 21,7	18.7 17.3 20.1 24.5 25.0 28.4 29.6 29.7 24.3 21.9 17.6 16.7 21.7 24.6	18.6 17.3 20.1 24.4 24.7 28.2 20.4 20.7 24.2 21.7 24.2 21.7 24.2 21.7 24.2 24.4 24.6	18.4 17.7 22.6 24.3 24.1 23.8 28.1 24.7 24.7 24.7 10.6 10.6 10.6	17.4 19.4 11.7 1.4 11.7 11.1 11.6 20.3 24.1 21.1 10.6 40.6 P0.6 P0.6	17.6 17.6 11.2 10.7 21.0 21.0 21.5 75.3 26.7 24.6 21.1 16.0 16.3 16.3	9 . 51 31 . 57 40 . 65 46 . 41 43 . 83 45 . 28 30 . 20 36 . 70 36 . 70 36 . 81 36 . 81	6	(i), 74 (ii), 54 (iii), 54 (iii), 30 (34,14 (34,14 (iii), 30 (iii), 30 (iii)	6 (37) 37 4 36 (35) 36 (44) 35 (45) 36 (45) 36 (75) 36 (76) 37 (76) 36 (74) 36 (74) 36 (74) 36 (74) 36 (74) 36 (74)	36, 44, 36, 47, 36, 47, 36, 44, 36, 51, 76, 60, 81, 36
35 ATION PPTH: TITUD NG ITU 1 2 3 4 5 5 6 7 8 4 10 11 11 12 13 15 15 17 18	2 E-10 46 M 2 28 3 5E 28 28 28 28 15 20 11 18 23 21 11 19 2 2 2 3	21 H 21 H 1 2 3 4 6 6 7 7 6 1 1 1 1 2 1 1 3 4 4	1963 1963 1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.6 25.2 28.7 29.6 29.7 24.3 36.7 24.3 21.9 17.6 16.7 21.7 21.7 24.6	18.7 17.3 20.1 24.0 26.4 29.7 28.9 20.7 24.7 24.7 21.7 21.7 21.7 24.6	18.6 17.3 20.1 24.4 24.7 28.9 20.7 28.9 20.7 21.7 17.5 10.7 21.4	18.4 17.2 19.7 22.6 24.3 24.1 23.8 28.3 28.3 24.7 24.7 24.7 10.6 19.4 24.3 24.3	17 . 110.4	17.6 17.6 14.2 10.7 20.0 21.0 (1.5 25.3 26.7 24.0 16.0 16.0 16.3	w .51 w .57 w .11 46.41 34.07 33.28 36.20 36.70 36.70 36.86	6.1. 6.1.4 7.5.1.4	6, 7, 6, 6, 6, 64, 56, 67, 67, 67, 67, 67, 67, 67, 67, 67, 6	6 (37) 6 (4) 30 (4) 40 (5) 40 (4) 35 (4) 35 (5) 30 (5) 30 (5) 30 (6) 40 (6)	36, 44, 36, 47, 36, 47, 36, 44, 36, 51, 76, 76, 76, 76, 76, 76, 76, 76, 76, 76
35 ATION PTH: TITUD PT	2 E-10 46 M 46 M 47 28 28 28 28 15 20 11 18 23 21 11 19 2 23 14 21 14 21	27 H 110 W 1 2 3 4 6 6 6 7 7 7 6 6 6 7 7	1963 1963 1964 1964 1963 1963 1963 1963 1963 1963 1964 1964 1964 1964	16,7 17,3 10,2 24,F 25,2 28,7 29,0 29,7 29,0 20,7 21,4 17,6 16,7 21,7	18.7 17.3 20.1 24.5 25.0 28.4 29.6 29.7 24.3 21.9 17.6 16.7 21.7 24.6	18.6 17.3 20.1 24.4 28.2 20.4 20.4 20.7 28.9 20.7 24.2 21.7 17.5 21.4 24.4 21.7 21.7	18.4 17.7 22.6 24.3 24.1 23.8 28.1 24.7 24.7 24.7 10.6 10.6 10.6	17.4 19.4 11.7 1.4 11.7 11.1 11.6 20.3 24.1 21.1 10.6 40.6 P0.6 P0.6	17.8 17.0 11.7 11.7 11.7 11.7 11.7 11.7 11.7	w . 51 w . 57 w . 61 to .61 to .61 to .20 30 . 20 30 . 20 30 . 20 36 . 70 36 . 86 do . 20 36 . 86 do . 20	6.1. 5.64 7.7 6.30 60.30 34.23 35.26 60.40 60.86 60.70 36.64 36.81 36.70 36.61 36.70	61, 54, 61, 64, 65, 67, 61, 64, 64, 64, 64, 64, 64, 64, 64, 64, 64	61,27 61,4 51,4 52,51 51,75 51,7	36. 44 36. 47 36. 47 36. 61 26. 47 56. 61 36. 66 36. 60 36. 60 36. 60 36. 44 36. 64 36. 64
35 ATION PTH: TITUD NGITU 1 2 3 4 4 4 4 100 111 12 115 115 115 115 115 115 115 115	2 E+10 46 M	27 B 201 W 1 2 3 3 4 6 6 6 7 7 7 1 1 1 2 1 1 3 4 4 5 6 6 6 6 6 7 7 7 7 1 1 1 2 1 1 3 3 4 5 6 6 7 7 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 1 2 1 1 3 3 4 5 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1963 1963 1963 1963 1963 1963 1963 1963	18.7 17.3 10.2 24.4 25.2 28.7 29.0 29.7 20.0 36.7 24.3 21.4 17.6 16.7 21.7 24.6 28.3 29.6	18.7 17.3 20.1 24.0 26.4 29.7 24.7 24.7 24.7 24.7 24.6 21.9 17.0 16.7 24.6 28.9	18.6 17.3 20.1 24.4 28.2 20.4 26.7 28.9 26.7 24.7 17.5 16.7 21.4 24.6 27.4 28.9	18.4 17.2 19.7 22.6 24.3 24.3 28.7 26.7 24.7 21.7 16.6 19.4 24.3 26.8 27.9 28.7	17 . 19.44	17.6 17.6 11.7 10.7 20.7 20.0 21.0 (1.5 25.3 26.7 24.0 16.0 16.3 16.2 20.2 20.3 22.0 22.6 22.6	w . 51 3 . 57 3 . 57 3 . 61 4 . 64 4 . 41 3 4 . 47 3 5 . 28 3 6 . 70 3 6 . 70 3 6 . 70 3 6 . 86 3 6 . 70 3 6 . 80 3 6 .	0.11. v., 7. v., 6. 00.30. 00.30. 34.23. 35.26. 00.33. 00.80. 36.70. 36.64. 36.71. 36.71. 36.70. 36.71. 37.70.	01, 74, 50, 54, 50, 67, 54, 56, 57, 54, 56, 59, 59, 59, 59, 59, 59, 59, 59, 59, 59	61,27 61,5 51,4 51,5 51,45 51,45 51,79 51,79 51,79 51,79 51,79 51,79 51,79 51,79 51,79 51,79 51,85 51,79 51,85	30, 44 36, 47 36, 5, 40, 14 36, 51 26, 47 (6, 6) 36, 81 36, 81 36, 81 36, 84 36, 83 36, 84 36, 83
35 (ATION P.PTH: TTITUD P.PTH:	2 E-10 46 M 28 32 50 E. 29 28 15 28 15 20 11 18 12 11 19 12 11 11 12 11 11 12 11 11 12 11 11 12 11 11	27 H 2011 W 1 2 3 4 4 6 6 7 7 8 10 11 12 1 13 4 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1963 1963 1963 1963 1963 1963 1963 1963	16.7 17.3 10.2 24.8 25.2 28.7 29.0 29.7 29.0 20.7 24.3 11.4 17.6 16.7 21.7 24.6 28.3 29.7 24.7 24.7 28.7	18.7 17.3 20.15 25.0 26.4 29.7 24.7 24.3 21.9 17.6 16.7 24.6 28.3 29.7 24.6 28.3 29.7	18.6 17.3 20.1 24.7 28.4 24.7 28.7 24.7 21.7 21.7 16.7 24.6 27.4 24.6 27.4 24.7 28.7 24.7 23.8	18.4 17.2 19.7 224.3 24.4 28.7 24.2 21.7 24.2 21.7 24.3 20.8 19.6 19.6 19.7 24.3 20.8 24.3 27.0 28.7 24.3 24.3 24.3 24.3 24.3	17 . 19.44	17.6 17.7 11.7 11.7 11.7 11.7 11.7 11.7	w . 51 9 . 57 8 . 64 434, 97 33, 83 45, 28 30, 20 36, 70 36, 70 36, 81 36, 70 36, 84 46, 73 36, 84 33, 83 36, 84 46, 73 36, 84 37, 87 37, 87 38, 88 38, 88, 88 38,	0.11-15.04 0.37-15.04 0.37-00.30 34.23 35.28-0.33 60.80-80-80-80-80-80-80-80-80-80-80-80-80-8	6, 7, 6, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	60,577 60,57 36,44 35,44 35,44 35,79 30,79 30,79 30,76 60,74 30,87 30,70 30,00 3	36, 47 36, 47 36, 47 36, 47 36, 41 36, 61 26, 47 36, 81 36, 83 36, 84 36, 84 36, 64 36, 64 36, 64 36, 64
35 (ATION EPTH: PTH: PTH: PTH: PTH: PTH: PTH: PTH:	2 E-10 46 M 50 E. 22 S	27 B 201 W 1 2 3 4 4 6 6 7 7 8 4 4 10 11 12 1 1 3 4 4 5 6 7 7 8 4 4 110 111 11 11 11 11 11 11 11 11 11 11 1	1963 1963 1963 1963 1963 1963 1963 1963	16.7 17.3 10.2 24.6 25.2 28.7 29.6 29.7 20.0 20.7 21.9 17.6 10.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21	18.7 17.3 24.5 25.0 24.5 24.7 24.7 24.7 21.9 17.0 16.7 21.7 21.7 24.6 28.3 29.7 21.7 22.3 29.7 23.3	18.6 17.3 24.4 24.7 24.7 24.7 26.7 17.5 16.7 21.7 21.7 21.7 21.4 24.4 24.6 21.7 21.7 21.7 21.4 24.4 24.7 21.7 21.7 21.7 21.4 23.8 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7	18.4 17.2 10.7 22.6 24.3 24.3 28.7 24.7 24.7 24.7 14.6 19.4 24.3 26.7 29.7 29.7 29.7 29.7	17	17.8 17.0 11.7 11.7 11.7 11.7 11.7 11.7 11.7	# .51 9 .57 9 .15 86.41 34.28 36.28 36.28 36.70 36.70 36.70 36.86 36.70 30.30 36.73 36.73 37.73 37.73 37.73 37.73 37.73	0	(i), 7, (ii), 54, (ii), 54, (ii), 54, (iii), 54, (iii), 54, (iii), 56, (iii), 57, (iiii), 57, (iiiii), 57, (iiii), 57, (iiii), 57, (iiii), 57, (iiii), 57, (iiii), 57, (iiii), 5	6 . 5 7 9 . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30, 44 30, 47 30, 47 30, 47 30, 47 30, 41 30, 41 30, 41 30, 81 30, 81
35 PATION EPTH: 12 2 3 4 4 5 6 7 7 8 8 4 10 11 12 13 15 16 17 17 18 19 20 21 22 23 224	2	27 H 101 W 1 2 3 4 4 6 6 7 7 8 9 9 10 11 12	1963 1963 1963 1963 1963 1963 1963 1963	18.7 17.3 24.4 25.2 24.7 29.0 29.7 29.0 36.7 21.9 11.6 16.7 21.7 21.7 24.6 28.3 29.4 29.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21	18.7 17.3 20.1 25.0 26.4 29.7 24.3 21.9 17.0 16.7 21.7 24.6 28.3 29.7 72.3 3.3 29.7 72.3 3.3 29.7	18.6 17.3 20.1 24.4 24.7 28.2 20.7 28.2 21.7 10.7 24.2 21.7 24.2 21.7 24.6 27.4 24.6 27.7 28.3 28.3 28.3 28.3 28.3 28.3 28.3 28.3	18.4 17.2 19.7 22.3 24.3 24.3 28.3 28.3 28.7 24.2 21.6 16.6 19.4 24.3 20.8 77.9 28.7 28.7 28.7 28.7 28.7	17	17.6 17.6 11.7 10.7 20.0 21.0 21.0 21.1 24.0 16.3 16.3 16.2 20.2 20.3 22.0 22.8 1.1 22.8 20.3	w . 51 30 . 57 30 . 57 30 . 65 44 44 . 47 44 . 47 46 . 70 36 . 70 36 . 70 36 . 70 36 . 70 30 . 30 32 . 84 35 . 70 36 . 70 37 . 70 38 . 70	6 . 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	61, 74, 61, 54, 56, 67, 67, 67, 67, 67, 67, 67, 67, 67, 6	61,27 61,1 61,1 61,15 61,15 61,15 61,16 61,17 61,1	30, 46 30, 47 30, 47 30, 47 30, 47 30, 47 30, 47 30, 81 30, 81
35 (ATION CPTH: STITUD (STITUD	2 E-10 46 M 28 92 5 E-10 28 92 5 E-10 28 92 5 E-10 28 15 20 11 11 12 3 21 11 12 23 14 21 11 12 23 14 21 11 12 23 14 21 11 11 23 14 14 21 15 16 16 16 16 16 16 16 16 16 16 16 16 16	27 H 2011 W 1 2 3 4 4 6 6 4 10 11 12 1 1 3 4 5 6 6 7 7 8 9 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11	1963 1963 1963 1963 1963 1963 1963 1963	16.7 17.3 24.6 25.2 28.7 29.0 29.7 29.0 20.7 24.3 21.4 17.6 28.3 29.6 28.3 29.6 29.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21	18.7 17.3 20.1 25.0 4.5 25.0 4.5 24.7 24.7 24.7 21.9 17.0 16.7 21.6 28.3 24.3 21.9 17.0 28.3 29.7 21.3 29.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21	18.6 17.3 29.1 24.4 24.7 28.9 26.7 17.7 17.7 21.4 6.7 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.4 21.7 21.7 21.7 21.7 21.7 21.7 21.7 21.7	18.4 17.2 19.7 22.6 24.3 24.7 23.8 28.7 24.7 24.7 24.7 24.7 24.8 25.8 7.9 24.7 24.3 26.8 27.9 24.3 26.8 27.9 28.7 29.7 29.7 29.7 29.7 29.7	17	17.8	w 151 w 157 w 161 de 141 34 128 de 141 35 128 de 170 36 170 36 181 36 86 37 37 38 37 38 37 38 32 38 32	6	(n. 2), (n. 74), (n. 74), (n. 74), (n. 74), (n. 14), (n.	61,77 61,6 51,4 51,51 51,75 51,7	96, 44 36, 37 36, 37 36, 17 38, 44 36, 17 36, 84 36, 87 36, 88 36, 88 36, 88 36, 88 36, 38 36, 38 36, 38 36, 38 36, 38
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Table 6. Monthly temperature of all 10 decreations at stations on transmite, 1963-1965

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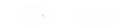
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17	20	,	1965		14.7	14.7		14.5	30.16	00.12	
16	23	4	1 +e 5		23.4	2.524		23.8	28,91	29.01	
19	2	,	19n5		27.3	.7.3		26.4	21.00	201, 40	
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24	18	1.	[∃n4 1 ln5	14.4 15.e	14.4	14.4		14 4	0.71	11.13	11	
26	1	1	1965	16.2	16	1		10.7	64.19	44.56	p (1	
27	.14	1	1-0-5	16.7	10.5	15.5		11.0	41.78	-1.27	3.1 . 5	
JB	25	4	19075	14.7	.4.1	2.5		1.0	ter.		11.11	
29	_ 4		1.16.5	27.0	.7.	26.14		15, 1		. 4 :	.94 4	
30	1.4	Fr.	1 th c	30.e	28.0	25.1		. 5 1	28.18	29.19	31.68	
3.2	1.4	В	1965	29.2	29.1	25.4		. 4.8	14.8.	14 HH	35 10	
3.3	1.2	4	1965	29.2	29.2	219		. 4.1	011, 70	fact of	HI, NO	
35	1.2	1.	1965	19.0	19.0	200.		201.3	28.71	30.44	32.74	
ATITUD CNGITU	E. 28 ⁰ ∪ DE: 9€	17' N 13'30" W		1								
					14.7	14.1	14.7	15.1	400 00	5.73	5 5+	-5 - 81
2	8	3	1963	15.6			19.7		3 - 1.4	33.81		36-117
3	8 4	4	196.3	19.5	14.5	14.2		14.8			15.13	
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3 4 5	4 2 21	4 5 5	1963 1963 1963	19.5 23.6 1 26.0	23.7 26.0	23.F 25.4	23.6	13.6	15.15	(4,54 (5,10	35.47	24.67 c 1/
3 4 5 6	4.2	4	1963 1963 1963	19.5 23.6 26.0 27.5	23.6 26.0 27.7	23.6 25.4 27.7	23.6 22.7 44.7	19.6	75 45.15 36.38	(3,94 (5,10 (6,35	01.82	24.67
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3 4 5 6 7 8 9 10 11 12 13	4 21 27 16 30 3 1 1 20 28	4 5 5 5 7 8 10 11	1963 1963 1963 1963 1963 1969 1969 1963 1963	19.5 23.6 25.0 27.5 27.8 29.3 27.5 25.6 19.4	23.6 26.0 27.7 27.7 20.3 27.5 25.6 19.4 18.6 17.4	23.4 25.4 27.7 27.7 29.3 27.5 25.4 19.6 18.6 17.4	(4.6) (4.7) (2.4) (2.6) (2.6) (2.6) (2.6) (2.6) (3.6) (4.7) (4.7)	13.6 (1.2) 14.7 (1.3) 2.3 (7.5) 25.5 (27.3) 17.9 (1.1)	75 45.15 36.38 36.44 37.04 46.11 36.44 35.54 36.79	(3.54 (5.10) (6.35) (6.41) (6.64) (6.14) (6.32) (35.65) (36.69) (36.69)	\$1.82 35.47 \$6.40 \$6.54 36.66 56.24 36.37 35.94 46.71 36.59	24,67 6,77 36,74 36,41 36,61 36,32 37,14 36,32 37,14 36,78
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3 4 5 6 7 8 9 10 11 12 13 14	4 21 27 16 30 3 1 1 20 28 19 22	4 5 5 5 6 7 8 10 11 12 13	1963 1963 1963 1963 1963 1963 1963 1963	19.5 23.6 20.0 27.8 27.8 29.3 27.5 25.6 19.4 18.6 17.4 16.1	23.6 26.0 27.7 27.7 20.3 27.5 25.6 19.4 18.6 17.4 16.1 16.8	23.6 25.4 27.7 27.7 29.3 27.5 25.6 19.6 18.6 17.4 16.0 16.8	23.6 23.7 23.4 23.4 24.7 27.5 25.6 20.4 18.7 17.3 15.0	13.5 10.2 14.7 11.7 2.3 17.5 25.5 27.3 17.9 15.0 15.0	75, 15, 15, 36, 38, 34, 44, 37, 74, 36, 11, 36, 144, 36, 74, 3	(3.54 35.10 36.35 36.47 36.32 35.65 36.69 36.69 36.16 36.18 35.18 36.48	80.82 35.47 86.40 36.54 36.54 36.37 35.94 36.71 36.70 36.70 36.20 35.46 30.21	94,67 6 17 36,41 36,41 36,61 36,32 6-14 36,32 6-14 36,78 30,65 30,29 36,06 35,40
3 4 5 6 7 8 9 10 11 12 13 14 15 16	4 21 27 16 30 3 1 1 20 28 19 22 16	4 5 5 6 7 8 10 11 12 12 13 4 5	1963 1963 1963 1963 1963 1965 1965 1964 1964 1964 1964 1964 1964	19.5 23.6 20.0 27.5 27.5 29.3 27.5 25.6 19.4 18.6 17.4 16.1 16.8 18.8 26.3 28.3	23.6 26.0 27.7 27.7 29.3 77.5 25.6 19.4 18.6 17.4 16.1 16.8 8.8 26.2 28.3	23.6 25.4 27.7 27.7 29.3 27.5 25.6 19.6 18.6 17.4 16.0 16.6 16.5 25.4 29.2	23.6 23.7 23.7 23.7 27.5 25.6 20.4 18.2 17.3 15.9 10.8 18.2 23.6 24.0	13.6 14.7 14.7 11.7 2.3 27.5 25.5 27.3 17.9 15.0 15.0 16.8 18.2 23.3	75, 15, 15, 36, 38, 44, 37, 64, 44, 35, 54, 36, 74, 36, 74, 36, 22, 35, 36, 26, 42, 33, 57	(3.54 (5.10) (6.35) (6.45) (6.47) (6.14) (6.13) (6.64) (6.13) (6.13) (6.14) (6.48) (6.48) (6.48) (6.48) (6.48) (6.48)	35.47 36.40 36.40 36.60 36.60 36.24 36.37 36.94 36.70 36.70 36.70 36.46 30.21 33.45	94,67 5,7 36,7 36,41 36,41 36,40 36,32 36,14 36,78 50,65 30,06 30,06 35,40 35,79
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	4 2 21 27 16 30 3 1 1 20 28 19 22 16 23 26 17 30	4 5 5 6 7 8 10 11 12 1 1 3 4 5 6 7 8	1963 1963 1963 1963 1963 1963 1963 1963	19.5 23.6 27.5 27.5 27.5 29.3 27.5 25.6 19.4 18.6 17.4 16.1 16.8 26.3 28.3 28.3 27.5 29.3	23.6 26.0 27.7 27.7 27.7 29.3 27.5 25.6 19.4 18.1 16.8 18.8 26.2 28.3 27.5 28.8	23.6 25.4 27.7 27.7 29.3 27.5 25.6 19.6 18.6 16.0 16.4 16.0 28.2 27.4 28.6	23.6 24.7 24.7 25.4 27.5 25.6 20.4 18.7 17.3 15.9 16.8 18.2 23.6 24.6 24.6 24.6 24.6 24.6	13.6 .0.2 14.7 .1.7 .2.3 .7.5 .25.5 .27.3 .17.9 .15.0 .15.0 .16.8 .23.2 .23.2 .23.9 .21.8 .28.0	175 35,15 36,38 36,34 37,04 36,11 36,44 35,54 36,74 36,22 35,36 26,42 33,57 36,47 46,77	(3,94 (5,10) (6,35) (6,47) (6,46) (6,14) (6,14) (6,14) (6,14) (6,14) (7,	(1.82 35.47 36.454 36.66 36.24 36.71 36.59 36.71 36.59 36.70 35.46 30.11 33.45 34.35	94,67 6 17 36,41 36,41 46,61 36,32 51,14 36,76 30,65 30,29 36,06 36,29 36,06 35,40 35,79 36,40 36,71
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	4 2 21 27 16 30 3 1 1 20 28 19 22 16 23 26 17 30 28	4 5 5 5 6 7 7 10 11 1. 1. 1 1 . 3 4 5 5 6 7 8 8 4	196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.4 196.4 196.4 196.4 196.4 196.4 196.4	19.5 23.6 20.0 27.5 27.5 29.3 27.5 19.4 18.6 17.4 16.1 16.8 26.3 28.3 28.3 27.5 29.3	23.6 26.0 27.7 27.7 29.3 27.5 25.6 19.4 16.1 16.8 26.2 28.3 27.5 28.8 28.4	23.4 25.4 27.7 27.7 29.3 27.5 25.6 19.6 17.4 16.6 16.5 25.4 29.2 27.4 28.4	23.6 23.4 23.4 27.5 25.6 27.5 25.6 20.4 18.2 17.3 15.6 16.8 18.2 23.6 24.6 24.6 24.6 24.8	13.6 14.7 11.7 2.3 25.5 25.5 27.3 15.0 15.0 16.8 18.2 23.3 21.8 28.0 28.3	75, (5.15) 36.38 31,444 37,014 (6.114 35.54 36.74 36.22 35,462 33,57 36,47 46,77 46,	(4.94 (5.10 (6.47) (6.4	(1.82 35.47) 36.54 36.54 36.54 36.54 36.70 36.70 36.70 36.70 36.70 36.70 36.70 36.70 36.70 36.70	24, 6.7 6.77 36, 41 36, 41 36, 40 36, 40 36, 32 3-14 36, 78 30, 65 30, 65 30, 65 30, 65 30, 79 30, 40 35, 40 35, 79 36, 40 35, 79 36, 40 35, 11 36, 71 36, 71 36, 71 36, 71 36, 71 36, 71 36, 71
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	4 2 21 27 16 30 3 1 20 28 19 22 16 23 30 28 29	4 5 5 6 7 8 10 11 11 12 1 1 5 6 7 7 8 8 10 7 7 7 7 7 8 8 8 8 7 7 7 7 8 8 8 8 8 8	196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.3 196.4 196.4 196.4 196.4 196.4 196.4 196.4 196.4 196.4	19.5 23.6 27.5 27.8 29.3 27.5 25.6 19.4 18.6 17.4 16.8 18.8 26.3 28.3 27.5 29.3 29.3 24.4	23.6 26.7 27.7 27.7 20.3 27.5 25.6 19.4 16.1 16.8 26.2 28.3 27.5 28.8 27.5	23.4 25.4 27.7 27.7 29.3 27.5 25.4 19.6 17.4 16.0 16.6 25.4 28.2 27.4 28.2 27.4 28.4 28.4	23.6 24.7 23.4 27.5 25.6 27.5 25.6 20.4 18.2 17.3 16.8 18.2 23.6 24.0 24.8 28.3 24.3	(3.5) (10.2) (14.7) (1.7) (2.3) (7.5) (2.4) (15.9) (15.9) (15.9) (16.8) (16.8) (23.2) (23.2) (24.3) (24.3) (24.3)	75, (5,15) 36,38,444 37,04 (6,11) 36,444 35,54 36,74 36,74 35,56 26,42 33,67 (7,00,7) 35,14	(4, 94, 62, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	(1.82 35.47 36.47 36.54 36.66 34.37 35.94 36.70 36.70 36.70 36.20 35.46 30.34 36.70 35.55	94,67 6 17 36,41 36,41 36,41 36,32 37,14 36,76 30,65 30,65 30,65 31,29 36,06 35,40 35,40 36,71 35,68
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9 1 11 12 13 14 15 16 17 19 17 19 17	30 21 30 26 28 20 11 16 23 25 17 30 24 24 27 27 27	1 · 11 11 11 1 · 1 · 1 · 1 · 1 · 1 · 1	196 - 196 -		26.4 29.1 29.1 20.1 20.8 19.5 20.3 19.5 20.3 24.4 28.4 28.8 26.3 26.3 26.4 27.4 28.8	29.1 29.4 29.3 23.5 23.5 20.6 19.5 24.9 28.4 28.3 25.4 25.4 22.2 22.3 18.6	4. 4.4 10.4 10.4 10.7 10.8 10.	24. + 24.7	0.14 (2.17) (2.17) (2.17) (3.18) (3.18) (3.18) (4.17) (4.1	(3.7) (21.7) (21.7) (21.1) (4.3) (4.7) (4.7) (4.9) (4.	18.2 22.8 21.5 21.5 21.5 21.2 19.4 10.4 15.8 10.9 19.4 19.0 20.2 20.8 21.4 21.4 19.0 21.4 11.4 21.4 19.0 21.4 19.0 21.5	9 : 54 he: 84 he: 84 he: 84 he: 86 he: 64 he: 64 he: 71 he: 71 he: 74 he: 71 he: 74 he: 77 he: 64 he	34 - 48 36 - 7 4 48 36 - 7 4 48 36 - 7 4 48 36 - 7 4 36 -	26.52 36.70 36.40 36.77 36.77 36.73 36.63 36.59 43.78 33.18 36.61 36.61 36.61 36.61 36.61 36.61	36.59 26.51 36.44 36.75 36.75 36.75 36.55 36.41 36.55 36.54 36.74 36	0.486 36.79 36.64 36.79 36.64 36.79 36.75	91.21 30.54 36.73 36.73 36.73 36.71 36.51 36.77 36.77 36.77 36.77 36.77 36.77 36.77 36.77 36.77	
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21	.16	à .	1964		28.4	28.4	19.4	.'m.4		.1 h		1.5	46 17 1	31 3 +	0.40	18 , 676	90.00	48
20	40	10	1964		75-5	25.5	1500	. 5.10	21412			5.3		119 1191	3641	31 . 52	40 , 200	34 7 1
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1	1.7	1.2	19+4		20. +	99.14	.50.7	201.7	90.7			11 7	40.14	90.11	31.,] +	\$61 *	901	9 7
25	Н	1	1 1++ ":		20.7	91.7	,711, 61	200.0	90.5	90 1			96.09	34 [C	40.17	(G.) I	26., 400	9 42
200	234	4	1965		14.5	111 1	19.3	1 1 . 1	1+1	1'.'		l to	16 , 19	ter, 4%	45,51	W 51	\$11 11	11 411
27	2.2	3	1:44 5		11+4	19.4	1 +. 3	1 1'	1+.	1 · .		1 *. '	56.43	441	91.,40	36.47	4-,44	0.54
.1H	.14	4	1 -11 "		.14.+-	4.4	18.1	17.2	16.5	17 -		17	11,20	116 191	73.27	35,47	581, 74	96.47
211	4		1'+- [.17.1	27.1	26.4	.11.8		[8.0		1.0		.18 LEF	€ 47	96.04	0.4=	36.47
] (+	1'41 "		17.5	-+	.15.71	11. 1	1+	18 9		1 +	1 41	1 -	114	(4) (4)	9 44	# . 4F
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-	11		1965		'n.1	1	30.1	17.1	27			1.4			1 (8)	900		0.000
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Table 19. Monthly temperature and salimit is or $\mathcal{E}_{1} = \mathcal{F}_{2}$ tations of transect 19. 196 - 196

TATECH W-50 DEETH H LATITUDE 25 34 N LONGITUDE 97 15 W

							ur- C L						limity (o Depth (d		
ru150	Day	Month	Year	11	1	11 24 24	4. 7	1::7	В +		1	11		70	10
2	19	3	1963	15.3	14.14				14.9	34.17	14.15				
F)	38	6	1743	2r.3	Jn. 3				24.	3n 41	0.132				
7	15	7	1965	25.1	23.9				12.6	9.49	+ , 44				
8	2.4	H	1 ** 5	27.⊬	27.h				24. +	74. 37	38 412				
9	4	10	194 5	26.12	26.12				26.3 .	31.77	413				
1	3	11	1 0 3	23.5	21.5				.3.5	4.5	11,43				
11	2	13	2 46.3	19.6	19.9				19.7	14 42	44.12				
1.2	2.2	1.2	136 h	10.0	12.2				12	24	44.75				
1.3	30	1	1964	14.2	14.3				14.2	4.18	34.0				
15	20	3	1 +64	17.8	17.8				16.8	35.4.	35.42				
1+	17	4	1964	211, 7	20.7				201.4	31.86	31.80				
17	24	-	1964	26.1	26.1				24.7	28.16	28.15				
18		6	1964	27.4	27.1				27.4	35,49	35.49				
19	15	7	1964	27.1	27.1				26.9]	36.40	36.46				
jii	31	8	1 +64	27.3	20,00				24.6	34,.73	36.70				
21	26	9	19⊬4	28.8	28.8				28.8	00,00	36,93				
4	3)	10	1964	24.0	24.0				24.0	34.45	34.43				
23	24	1.1	1944	19.9	19.9				1 +, +	31.88	31.85				
24	18	1.	1964	15.2	19.0				15.2	32,09	32.05				
25	9	1	1965	ln.9	1-,9				16.1	32.67	32.64				
26	38	2	1965	17.2	17.2				17.5	34,90	35.00				
27	23	3	1965	16.7	1m.7				16.2	34.32	34,39				
28	25	4	1965	24.0	24.11				23.3	29.72	24.72				
29	31	5	19n5	26.2	Je. J				26.2	33.20	34.21				
30	14		1⊣65	27.2	27.2				27.1	34.21	34 37				
3.2	14	В	1965	28.0	28.0				27.9	3F.65	36.62				
35	11	1.2	1965		20.1				20.0	31.76	31.73				

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			104			F .		- 4	45.1 41.15.4	9.44 16.66	16.65			
			1++4			1.0			4.49	0.40	66.7			
			1++4 1+€4	. 4		24.7			-4 -	44.77	4.5			
á			19.4		. 1 11.0	It is		11	14 44	4.42	14.			
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ir ce	.Ε πΕΕΕΕΕΕΕΕΕ	* · · · · · · · · · · · · · · · · · · ·		1										
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-1	4	1 1 1	1 ++ + 1 +h]	. 7	. 4		* .*	E +.	9 . 27 9 . 24	16.15	16.41	28.46	3e , 4=	
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-	- 4		19(4)	,15,	E	1	12.4	19.7	27.1.	Jr. +1	11,32	30 . 0	9.57	
i i	26 18	7	1⊣64 1#4	27		27.4 21.6	11.5	19.1	15,46 36,55	35.14	36,53	W2 36.61	36.48 36.54	
	11	ā	1464	. 7	8 27.7	27.16	4.4 11.4	-1.9	36.7	34 . 71	0.71	36.63	36.65	
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·	-4	11	1964 1964	24		14.7	14:8 0:1 13:15 12:16	25.7	15,92	35.7. 35.87	3€.75 35.80	35.49 36.79	30.7e 75.44	
	1.7	1.1	19€4	20	3 20.1	21.3	1	21.1	35.68	35.77	35.85	36.17	Str. Land	
4	-4	1	1965	18		17.0	14.5 20.0	2 (20)	34.27	34.00	34 90	35.∋n	36.1.	
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4	23	4	1965	34	4 24.3	21.5	15.2 17 +	17.8	28.47	28.42	30.51	36.09	33.02	
4	23				F 32 1	26.0	.4 /1.1	23.0	33,06	33.03	33.98	35.12	36.22	
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- Smart I Wilk and Mer to I Sheeringan (1997). In table 2, app. tables | For some 1997 | Some Documents I S Government Printing Color Williams



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