

OCEAN ATLAS SERIES

"SUSPENDED SEDIMENT DATA FROM NEARSHORE WATERS OF GEORGIA"

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and

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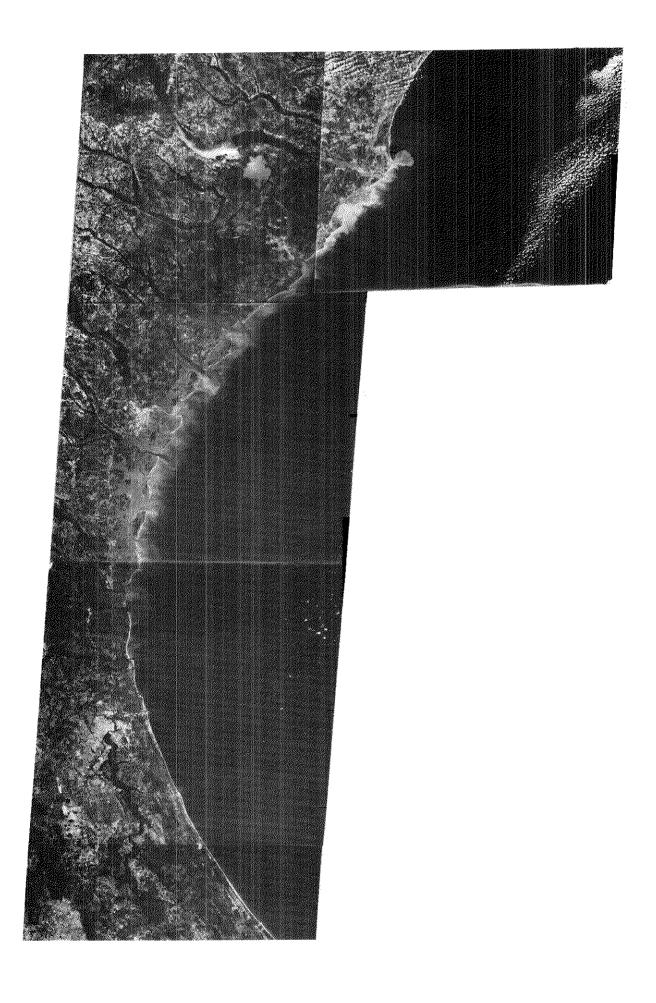
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INTRODUCTION

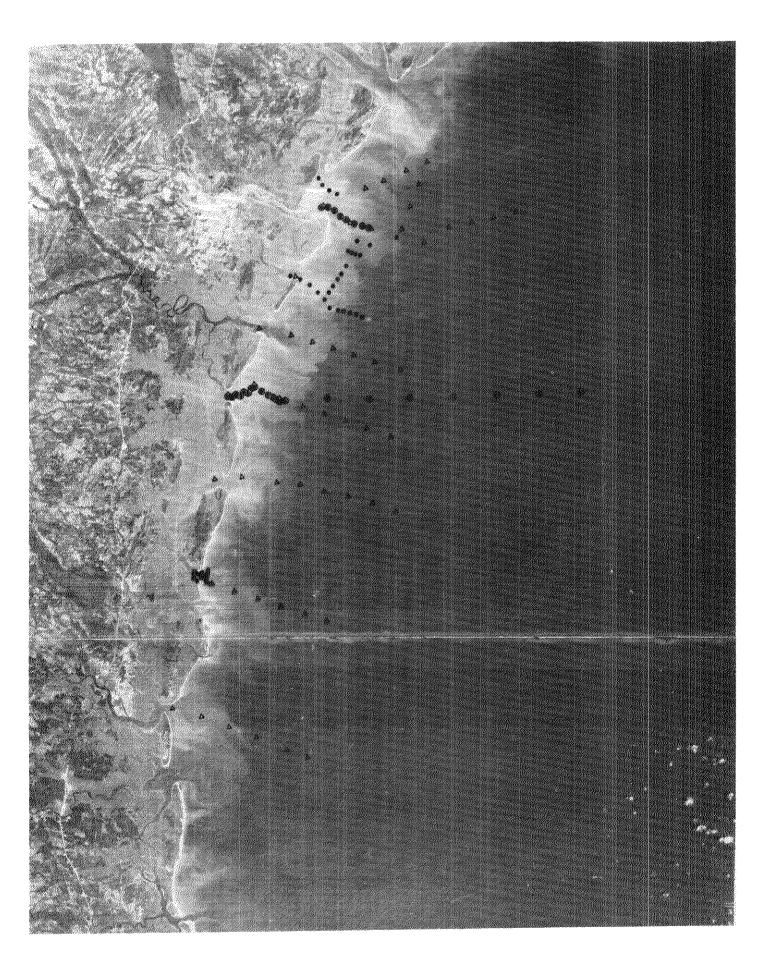
The nearshore water of the Georgia Bight is very turbid relative to other areas of the east coast (Manheim, Meade and Bond, 1970, Oertel, 1976). The turbidity of the waters is documented through a variety of different oceanographic projects, some of which were oriented toward biologic, physical, chemical or geologic investigations. Because of this variety some of the data are not always comparable. Characterization of clays from the coastal plain is discussed by Bigham, 1972, Heron, Johnson, Wilson and Michael, 1964, Meade 1969, Manheim, Meade and Bond, 1970, Neiheisel and Weaver, 1967, and Oertel, 1976. This technical report is a summary of recent suspended sediment data collected from nearshore waters of Georgia. No attempt is made to interpret the mechanics of suspended sediment transport or the processes controlling its distribution.

Data that was collected from various sources are presented in atlas form. The study area extended from Cape Romain, South Carolina to Jackson-ville, Florida. Data recovery within this area was restricted to projects that were predominantly located within the nearshore zone (0-40 km offshore). Several samples that were not included were part of estuarine sampling programs or shelf and gulf water sampling programs. A more complete description of these data may be found in the literature of the bibliography.

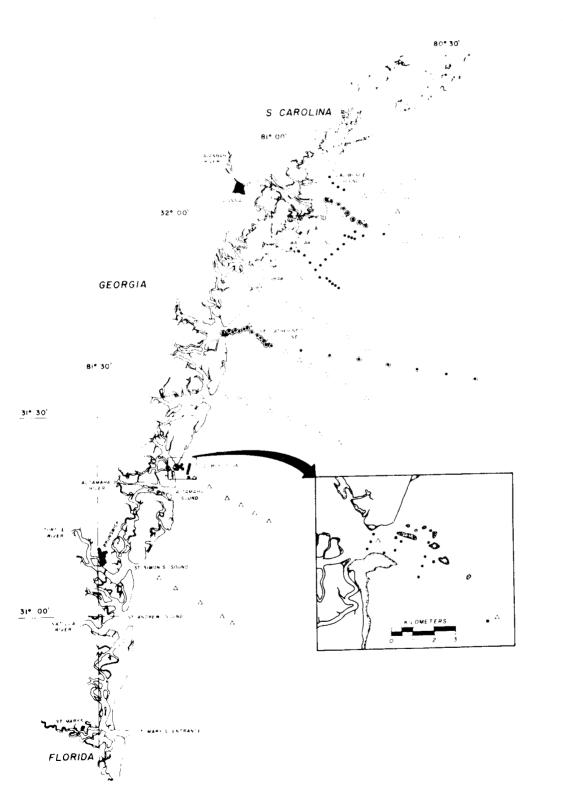
Satellite photography of the Georgia Bight illustrates the large loads of suspended sediment in nearshore water between Jacksonville, Florida and Cape Romain, South Carolina. Plumes from numerous coastal inlets appear to merge in the nearshore zone and form a turbid band.



Satellite photography of the Georgia coast illustrates the distribution of various field sampling programs with respect to the apparent position of the turbid zone.



Map of station locations for six different sampling programs with principal investigators and sampling periods indicated.

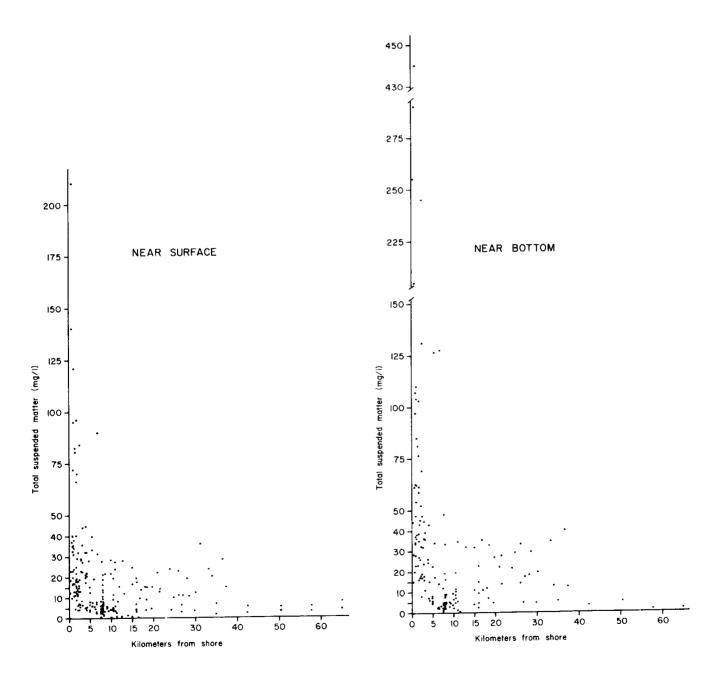




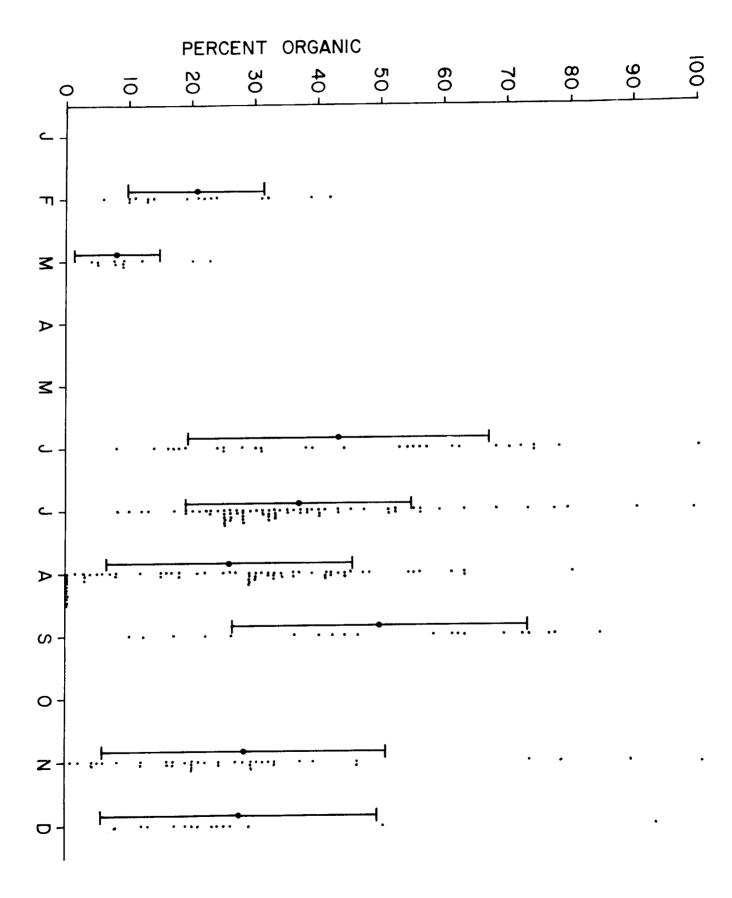
STATIONS

- 7. Bigham, 1972
- . Levy, 1968
- . Oertei, 1970, 1973, 1974
- Dertel, 1975

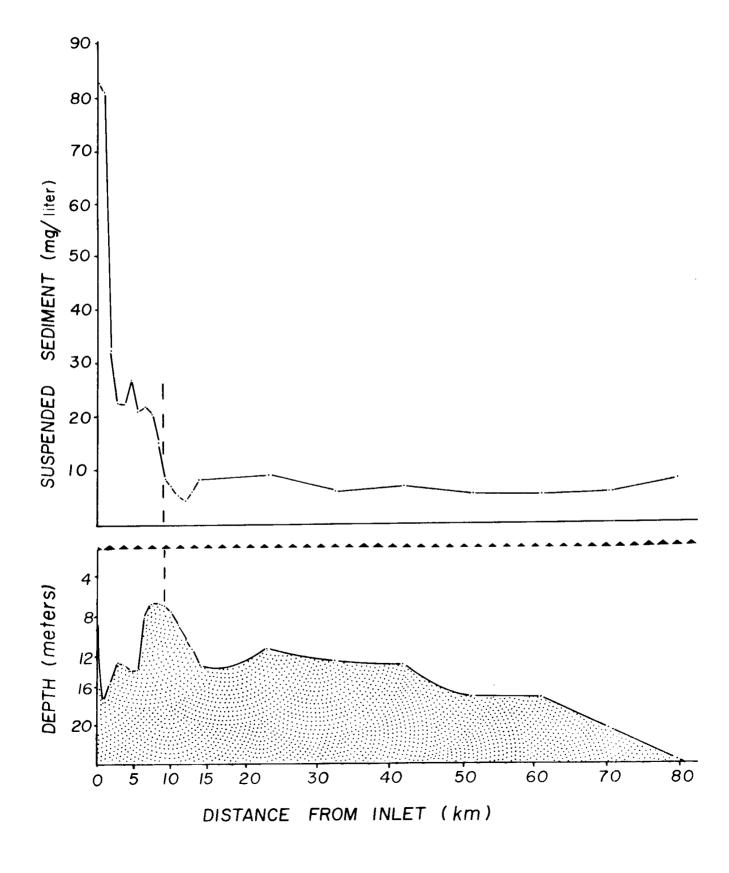
Graphs showing the total concentrations of 490 samples relative to depth and distance from shore. The high concentrations were generally located very close to shore, whereas offshore stations generally had very low concentrations. The moderately highly concentrations in the mid distances (20-35 kilometers) are from the Bigham data.



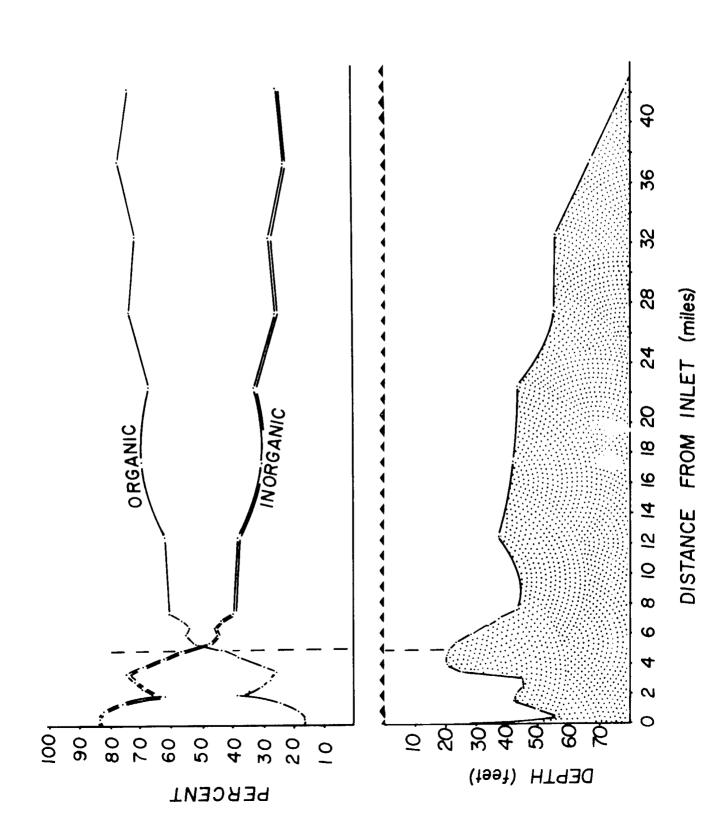
Histograms of the percent organic material collected during monthly sampling periods. These histograms illustrate the percentage of organics for actual samples, as well as the mean and standard deviation for the number taken in a given month. While data points are also affected by their relative distances from the shore, it appears that a higher percentage of organics was present in the summer months (June, July and September) than was present during the winter (November, December, February, March).



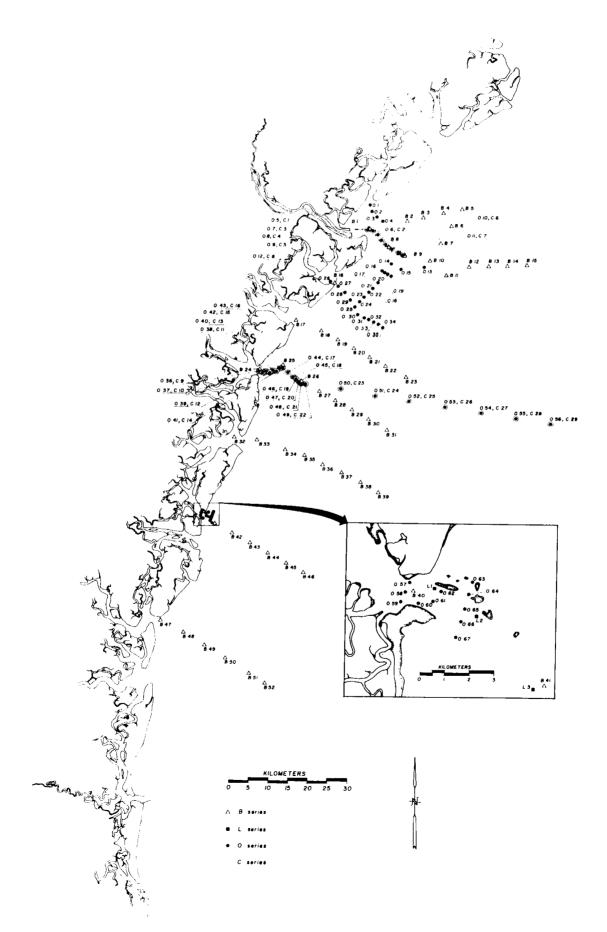
Transect extending seaward from St. Catherines inlet illustrating the surface concentrations of suspended sediment between the inlet and a point 80 km offshore. The distal shoals of the ebb delta are located approximately 10 km seaward of the inlet. Concentrations decrease rapidly and continuously between the inlet throat and the distal shoals. Seaward of the distal shoals, concentrations are low and relatively constant.



Transects extending seaward from St. Catherines inlet illustrating the relative organic and inorganic percentages of surface samples. The percentage of inorganic matter was greatest near the inlet throat, and decreased in a seaward direction. The percentages of organic and inorganic material were approximately equal above the distal shoals of the ebb delta. Seaward of the distal shoals the organic fraction increased slowly and continuously and comprised approximately 80 percent of the sample 80 km (43.2 miles) from the inlet.



Location map of all suspended sediment sample stations. Data for all of the stations are tabulated in the appendix.



CONCLUSIONS

- 1. Satellite photography illustrates that a band of turbid water exists between Cape Romain, South Carolina and Jacksonville, Florida.
- 2. The band is widest adjacent to the Savannah River entrance and attenuates towards the south near Jacksonville, Florida and towards the north near Cape Romain, South Carolina.
- 3. The concentration of suspended sediment in the band is areally
- 4. Concentrations of suspended sediment are highest adjacent to the shoreline and lowest offshore.
- 5. The concentration of organic matter suspended in the water column may be higher in the summer and early fall than it is during the remainder of the year.
- 6. The percentage of inorganic vs. organic material is higher landward of the tidal deltas than it is seaward of the tidal deltas.

ACKNOWLEDGMENTS

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 Georgia Marine Science Center, Tech. Rep. Series, No. 74-4.

APPENDIX

Partial data for suspended sediment stations including dates, times, water depths, sample depths, salinity, total suspended concentrations, and percent organics.

B SERIES B-1 2045 7/13/70 12.5 6.1 B-2 1825 7/14/70 11.6 4.6 B-3 1746 7/14/70 12.1 4.6 B-4 1717 7/14/70 8.5 3.0 B-5 1625 7/14/70 15.8 3.0	31.3 29.2 31 33.9 21.8 38 34.0 22.0 51 33.8 15.5 27 34.1 16.6 33 35.2 11.0 26 33.6 19.5 13	
B-2 1825 7/14/70 11.6 4.6 B-3 1746 7/14/70 12.1 4.6 B-4 1717 7/14/70 8.5 3.0 B-5 1625 7/14/70 15.8 3.0	33.9 21.8 38 34.0 22.0 51 33.8 15.5 27 34.1 16.6 33 35.2 11.0 26 33.6 19.5 13	
B-3 1746 7/14/70 12.1 4.6 B-4 1717 7/14/70 8.5 3.0 B-5 1625 7/14/70 15.8 3.0	34.0 22.0 51 33.8 15.5 27 34.1 16.6 33 35.2 11.0 26 33.6 19.5 13	
B-4 1717 7/14/70 8.5 3.0 B-5 1625 7/14/70 15.8 3.0	33.8 15.5 27 34.1 16.6 33 35.2 11.0 26 33.6 19.5 13	
B-5 1625 7/14/70 15.8 3.0	34.1 16.6 33 35.2 11.0 26 33.6 19.5 13	
2020 1, 2, 4, 7, 2	35.2 11.0 26 33.6 19.5 13	
	33.6 19.5 13	
13.7		
B-6 1523 7/14/70 14.6 3.0		
12.2	34.5 14.7 19	
B-7 1434 7/14/70 14.6 1.8	33.3 15.2 35	
12.2	34.6 11.9 25	
B-8 1038 7/14/70 4.6 2.1	32.6 19.2 25	
B-9 1131 7/14/70 12.8 1.8	32.9 28.0 21	
11.0	34.4 6.3 28	
B-10 1225 7/14/70 14.6 3.0	33.2 13.8 19	
11.6	35.0 11.0 52	
B-11 1331 7/14/70 15.5 1.8	33.7 14.1 30	
12.2	35.3 13.8 22	
B-12 1237 7/18/70 15.8 1.8	35.2 11.1 35	
13.7	35.1 17.2 40	
B-13 1337 7/18/70 17.7 3.7	35.1 12.2 8	
13.7	35.4 19.4 41	
B-14 1430 7/18/70 17.4 1.8	35.1 20.3 28	
15.8	35.6 12.8 17	
B-15 1529 7/18/70 20.1 1.8	35.5 14.8 33	
16.8	35.5 12.4 29	

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
B-16	1624	7/24/70	9.8	7.6	32.6	69.4	28
B-17	1830	7/22/70	6.4	1.5	24.4	120.8	23
				4.6	25.0	201.4	19.7
B-18	1959	7/21/70	3.0	2.1	31.6	31.4	32.4
B-19	1903	7/21/70	13.1	3.0	34.4	27.4	37.4
				10.4	34.9	1.2	9.8
B-20	1826	7/25/70	14.6	3.0	35.2	6.6	67.7
				12.2	35.4	3.9	98.8
B-21	1744	7/21/70	13.7	3.0	35.4	4.6	72.7
				9.1	35.6	4.7	89.0
B-22	1656	7/21/70	15.8	3.0	35.7	3.9	56.4
				12.2	35.7	-	_
8-23	1535	7/21/70	16.2	1.5	35.9	3.4	76.7
				14.6	36.0	4.6	62.5
B-24	0923	7/29/70	9.1	4.6	19.8	35.3	27.4
B-25	0951	7/29/70	4.6	2.1	32.2	32.0	51.3
B-26	2022	7/27/70	11.3	1.5	33.5	19.5	30.7
				9.1	33.7	19.6	55.1
B-27	1949	7/27/70	12.8	3.0	33.6	24.7	26.5
				9.1	34.7	31.7	33.4
B-28	1905	7/27/70	15.2	1.8	34.6	15.2	51.8
				10.7	35.4	26.9	63.4
B-29	1822	7/27/70	18.3	3.0	35.7	23.7	26.1
				15.2	35.6	21.5	25.6
B-30	1733	7/27/70	18.6	1.8	35.6	19.2	45.0
				15.2	35.6	18.1	47.0

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (⁰ /oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
8-31	1646	7/27/70	18.6	1.8	35.8	23.5	25.3
				16.8	35.8	34.5	25.2
B-32	1736	7/28/70	9.4	3.0	32.1	40.1	24.6
				6.1	32.8	76.6	22.6
B-33	1106	7/28/70	6.7	1.5	31.5	44.0	40.4
				5.5	31.6	35.7	25.3
B-34	1147	7/28/70	8.8	2.1	34.1	23.9	33.9
				6.7	34.0	34.3	32.0
B-35	1220	7/28/70	11.6	3.0	34.2	17.6	37.0
				10.7	35.0	22.4	40.1
B-36	1248	7/28/70	13.1	1.5	34.6	22.1	78.7
				9.1	35.4	21.6	32.1
B-37	1336	7/28/70	14.6	3.0	35.6	22.9	26.0
				9.1	35.7	14.0	36.5
B-38	1417	7/28/70	20.1	3.0	35.7	36.1	55.7
				16.8	35.7	15.5	42.8
B-39	1503	7/28/70	21.3	3.0	35.9	28.4	38.5
				19.8	35.9	39.9	24.3
B-40	1640	8/23/70	11.6	4.6	34.0	43.4	25.6
B-41	1717	8/23/70	5.2	2.4	34.7	44.6	56.0
B-42	1740	8/23/70	10.1	2.4	24.4	21.5	41.0
				7.6	35.6	33.2	36.3
B-43	1909	9/17/70	12.2	1.5	34.3	12.0	69.0
				10.7	34.6	31.8	40.3
B-44	1822	9/17/70	13.4	1.5	35.0	9.6	76.8
				12.2	35.2	35.2	60.6

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (°/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
B-45	1733	9/17/70	14.6	1.5	35.6	12.8	84.8
D-43	1700	2, 21, 11		12.2	-	27.6	73.3
B-46	1643	9/17/70	18.3	1.5	35.9	11.1	71.8
D 40		, ,		16.8	35.7	33.1	61.5
B-47	1102	9/15/70	11.3	1.5	31.8	32.5	12.1
		•		9.8	32.2	62.4	41.7
B-48	1013	9/17/70	11.6	1.5	32.1	89.7	36.0
D- 40				10.7	33.2	127.5	25.7
B-49	1101	9/17/70	12.5	1.5	33.8	28.1	9.6
				10.7	34.3	47.2	22.3
8-50	1206	9/17/70	15.2	1.5	35.0	15.0	76.4
				13.7	35.4	32. 8	45.7
B-51	1312	9/17/70	15.8	1.5	35.4	9.9	61.9
				13.7	35.5	29.0	58.1
B-52	1307	9 /17/70	15.2	1.5	35.7	10.6	44.4
				13.7	35.7	29.3	17.3
L SERIES							
L-1	0818	6/30/67	11.9	0.6	21.1	12.6	-
	1424	6/30/67		0.6	25.6	18.5	-
	0818	6/30/67		5.2	23.7	23.6	-
	1424	6/30/67		5.5	27.4	8.0	. -
	0818	6/30/67		10.7	24.2	15.0	-
	1424	6/30/67		11.6	29.1	44.1	-
L-2	0823	6/30/67	8.5	0.6	23.0	13.2	-
	1427	6/30/67		0.6	25.9	5.5	-

PERCENT ORGANICS
-
-
-
-
-
-
-
-
-
-
1.6
-
10.6
9.0
0.9
.17.1
15.9
19.5
22.2
8.2
-
31.1
24.3
29.3

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (^O /oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
		11/12/74		9.2	20.9	36.0	20.3
0-8	1015	II	4.6	0.3	20.1	20.0	23.5
		н		3.6	27.0	24.3	8.2
0-9		7/27/73	13.8	0.3	36.0	3.4	11.8
		n		12.8	35.0	4.4	31.9
		u	14.7	0.3	36.0	7.8	28.2
				13.7	38.0	8.0	32.5
		8/23/73	10.1	0.3	32.0	6.6	15.2
		n		9.1	33.0	-	-
		п	12.6	0.3	26.0	12.6	-
		11		11.6	26.5	5.6	17.9
0-10	1020	11/12/74	5.5	0.3	24.0	7.0	28.6
		11		4.5	22.3	14.1	72.7
0-11	1025	11	9.1	0.3	22.0	6.6	12.1
		11		8.1	26.0	8.8	38.6
0-12	1030	п	11.3	0.3	26.0	4.2	19.1
		"		10.3	25.5	3.6	5.5
0-13		7/27/73	15.6	0.3	34.0	4.2	38.1
		п		14.6	33.0	9.5	36.4
		II	16.8	0.3	34.0	4.4	59.1
		п		15.8	36.0	4.6	43.5
		8/23/73	15.6	0.3	29.0	3.0	5.2
		n	15.6	0.3	35.0	6.8	-
		n		14.6	36.0	2.2	-
0-14	0700	11/8/73	10.1	0.3	-	0.6	33.3
- - .		- •	10.1	9.1	_	1.2	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-14	0800	11/8/73	10.1	0.3	-	2.6	46.2
			10.1	9.1	-	1.0	20.0
	0900		10.1	0.3	-	3.4	11.8
			10.1	9.1	-	12.0	78.3
		11/8/73	10.1	0.3	!	-	-
J	1000	ti.	10.1	9.1		2.2	45.5
		п	10.1	0.3		2.6	-
			п	9.1		1.2	33.3
	1200	11	Œ	0.3		8.4	28.6
			п	9.1	į	-	_
	1300	11	н	0.3	į	5.0	32.0
			41	9.1		4.8	20.8
	1400	ti	u	0.3		3.2	-
			п	9.1		4.0	30.0
	1500	п	Ħ	0.3	; =	4.8	4.2
			II .	9.1	TAKEN	4.4	27.3
	1600	n	п	0.3	NOT	5.0	28.0
			11	9.1		3.8	15.8
	1700	1)	н	0.3	į	3.4	100.0
			п	9.1		1.2	16.7
	1800	n	II	0.3		6.0	20.0
			u	9.1		-	-
	1900	11	Ħ	0.3		3.6	88.9
			n .	9.1	í 1 1	4.9	36.7
0-15	1100	3/7/74	9.1	0.3	; 	3.8	-
			řŧ.	4.7	Ĭ	4.6	_

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-15	<u> </u>		9.1	9.1		10.6	20.8
	1200	3/7/74	Ħ	0.3		4.0	0.0
			В	4.7		3.4	0.0
			Ħ	9.1		8.6	7.9
	1300	11	11	0.3	į	4.4	4.5
			n	4.7		6.4	9.4
			II	9.1		10.6	3.8
	1400		11	0.3		11.6	12.1
			п	4.7		7.0	0.0
			11	9.1		10.6	-
	1500		п	0.3	<u> </u>	9.0	7.8
			II .	4.7	TAKEN	7.0	8.6
			u	9.1	L LON	11.6	8.6
	1600		n	0.3	:	4.0	-
			п	4.7	į	3.8	5.3
			ŧt.	9.1	i !	7.0	22.9
0-16		6/26/73	11.0	0.3	; ; ;	4.6	0.0
			u	5.2	į	2.2	-
			п	10.0		2.4	8.2
0-17		11	12.2	0.3		5.6	14.3
			п	5.8	; ; ;	4.6	30.4
			п	11.2	i	3.2	18.7
0-18		8/14/73	12.2	0.3	31.5	18.8	28.7
			п	11.2	31.5	8.8	31.8
		11	н	0.3	30.0	6.0	41.0
			н	11.2	32.0	5.0	36.0

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/l)	PERCENT ORGANICS
0-18		8/14/73	12.2	0.3	31.0	8.2	41.5
			и	11.2	32.0	7.6	34.2
		n	19	0.3	30.5	9.6	29.2
			п	11.2	32.0	19.2	62.5
		8/14/73	п	0.3	31.0	5.2	30.8
				11.2	32.0	4.0	55.0
		\$1.	п	0.3	31.0	10.8	29.6
				11.2	31.5	8.0	32.5
		a	п	0.3	31.0	8.2	39.0
				11.2	32.0	3.2	0.0
		u	п	0.3	31.0	4.8	4.2
				11.2	32.0	4.0	-
		i.	41	0.3	31.5	16.4	34.1
				11.2	32.0	7.8	41.0
		1)	II .	0.3	31.0	7.0	54.3
				11.2	32.0	2.8	21.4
		n	**	0.3	31.5	-	-
				11.2	32.0	8.8	43.2
		11:	18	0.3	31.5	6.4	62.5
				11.2	32.0	3.8	-
		11	11	0.3	32.0	12.8	79.7
				11.2	32.0	16.2	29.6
0-19		6/26/73	12.8	0.3	(EN-	5.0	53.8
			п	6.1	-NOT TAKEN-	2.2	100.0
			п	11.8	- NOT	5.2	24.0

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-20	1441	12/28/74	12.2	0.3	;	2.6	-
		11		11.2		2.0	-
0-21	1448	II	12.2	0.3	1	2.2	-
		11		11.2	- - - -	2.6	-
0-22	1501	11	13.1	0.3	TAKEN-	1.6	-
		31	п	12.1	- NOT -	5.0	-
0-23	1511	a t-	9.4	0.3		3.4	-
0-24	1525	п	8.8	0.3	i 1	14.0	12.8
0-25	1134	12/16/74	5.5	0.3	29.0	27.7	26.4
		п	ff	4.5	29.5	47.7	23.7
0-26	1215	п	7.6	0.3	23.7	22.7	13.2
		n	11	6.6	22.2	28.3	20.1
0-27	1205	и	8.2	0.3	27.9	23.0	29.1
		и	п	7.2	25.5	28.0	8.2
0-28	1154	п	5.5	0.3	23.8	35.7	20.5
		н	n	4.5	28.0	39.0	18.7
0-29	1142	11	4.0	0.3	27.2	39.7	23.4
		14	II	3.0	25.2	126.7	17.1
0-30	1120	п	10.7	0.3	30.0	3.8	94.7
		u	п	9.7	29.5	4.8	50.0
0-31	1530	12/28/74	13.4	0.3	1	1.0	-
0-32	1539	n	13.1	0.3	EN-	1.0	-
0-33	1548	н	11.9	0.3	TAK	1.4	-
0-34	1557	n	11.6	D	NOT TAKEN	0.8	25.0
0-35	1605	п	11.6	••	ŀ	0.4	-
0-36	0835	6/6/74	3.7	п	27.0	82.2	16.3

STATION	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-37	0839	6/6/74	13.3	0.3	28.0	80.4	16.9
0-38	0841	11	16.5	11	28.0	32.0	18.1
0-39	0845	it.	10.1	H	28.0	22.8	24.6
0-40	0841	11	7.8	H	28.0	22.6	38.9
	0851	II.	12.0	н	28.5	27.2	30.9
0-41	0855	в	7.3	14	29.0	21.2	28.3
0-42	0858	п	2.4	п	29.5	22.0	25.4
	0902	α	2.1	ш	30.0	20.6	31.1
0-43	0905	н	5.2	11	29.5	15.2	38.1
0-44	0910	u	5.2	п	29.5	8.2	43.9
0-45	0913	н	4.0	tt.	29.5	7.2	52.7
0-46	0916	п	5.5	n	29.5	5.4	55.5
0-47	0919	11	7.9	ŧI	29.5	4.4	54.5
0-48	0922	n	9.1	e e	30.0	6.0	56.7
0-49	0925	п	11.0	ii	30.0	8.2	60.9
0-50	0955	п	13.7	н	29.5	9.0	62.2
0-51	1020	п	18.9	п	29.5	6.0	70.0
0-52	1045	п	18.3	п	30.0	6.8	67.6
0-53	1110	II	17.7	п	30.0	5.4	74.1
0-54	1135	tt	20.7	n	29.5	5.0	72.0
0-55	1158	п	22.6	н	29.5	5.4	77.7
0-56	1223	n	25.6	н	29.0	7.8	74 .4
0-57	MLW	Summer 1970	5.8	0.6	29.5	19	-
	11	11	п	3.0	30.0	24	-
	Ħ	11	п	5.5	30.0	32	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (°/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-57	Mid- Flood	Summer 1970	7.0	0.6	32.5	190	-
	11	u	п	3.0	33.0	285	-
	11	Ü	tt.	5.5	33.0	300	-
	MHW	α	8.2	0.6	34.0	70	-
	u	16	8.2	3.0	34.0	93	-
	11	п	11	5.5	34.5	108	-
	Mid- Ebb	п	7.0	0.6	33.5	160	-
	11	.	(1	3.0	34.0	235	-
	11	IF	п	5.5	34.5	255	-
0-58	MLW	н	6.7	0.6	29.0	10	-
	11	if	п	3.0	29.0	16	-
	11	er .	п	5.5	29.5	20	-
	Mid- Flood	н	7.9	0.6	32.5	210	-
	\$1	n	11	3.0	32.5	263	-
	Ħ	п	11	5.5	32.5	295	-
	п	П	rr	7.6	33.0	294	-
	MHW	11	9.1	0.6	32.5	37	-
	ıı.	п	н	3.0	33.5	41	-
	п	μ	n	5.5	34.0	52	-
	п	п	tl.	7.9	35.0	61	-
	Mid- Ebb	11	7.9	0.6	33.0	140	-
	11	п	11	3.0	33.5	155	-
	н	11		5.5	33.5	180	-
	i 1	11	u	7.6	33.5	205	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-59	MLW	Summer 1970	12.8	0.6	28.0	17	-
	II	11	u	3.0	28.5	23	-
	Ц	11	u	5.5	29.0	24	-
	ш	11	п	7.9	29.5	28	-
	Ш	14	u	10.4	30.0	23	-
	Mid- Flood	II	14.0	0.6	31.0	95	-
	U	**	п	3.0	31.0	124	-
	н	11	П	5.5	31.0	127	-
	10	Œ	11	7.9	31.5	110	-
	n	u	ti.	10.4	31.5	105	-
	11	IJ	П	12.8	32.0	122	-
	MHW	Ш	15.2	0.6	31.5	31	-
	п	IJ	U	3.0	32.0	22	-
	п	Iŧ	11	5.5	33.5	35	-
	н	s)	П	7.9	34.5	37	-
	п	11	п	10.4	34.5	33	-
	п	11	Ц	12.8	35.0	47	-
	Mid- Ebb	ш	14.0	0.6	30.5	72	-
	и	(I	Ħ	3.0	31.5	83	-
	H	II	п	5.5	33.0	150	-
	13	Ш	16	7.9	33.5	310	-
	н	Ħ	B	10.4	33.5	345	-
	п	ш	n	12.8	33.5	440	-
0-60	MLW	п	10.7	0.6	30.5	13	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (⁰ /oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-60	MLW	Summer 1970	10.7	3.0	30.5	24	-
	11	n	16	5.5	31.0	27	-
	II	11	n	7.9	31.5	32	-
	D	и	11	10.4	31.5	85	-
	Mid- Flood	11	11.9	0.6	30.5	34	-
	11	H	11	3.0	31.0	43	-
	Ħ	н	п	5.5	32.0	76	-
	11	11	ш	7.9	32.0	97	-
	a	п	13	10.4	32.5	104	-
	MHW	11	13.4	0.6	33.0	17	-
	п	11	п	3.0	34.0	23	-
	n	Ħ	11	5.5	35.0	22	-
	μ	U	11	7.9	35.0	28	-
	п	μ	u	10.4	35.5	33	-
	**	Ħ	п	12.8	35.5	36	-
	Mid- Ebb	П	11.9	0.6	31.0	24	-
	П	п	n	3.0	31.0	25	-
	H	tt.	11	5.5	31.5	33	-
	II .	11	ш	7.9	31.5	39	-
	11	II	п	10.4	32.5	54	-
0-61	MLW	II	11.6	0.6	29.5	13	-
		П	11	3.0	30.5	22	-
		11	п	5.5	31.0	21	-
		II	п	7.9	31.5	18	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (⁰ /oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-60	MLW	Summer 1970	10.7	3.0	30.5	24	_
	п	14	U	5.5	31.0	27	-
	1.5	18	п	7.9	31.5	32	-
	(I	П	Ii	10.4	31.5	85	-
	Mid- Flood	II	11.9	0.6	30.5	34	<u>-</u>
	п	•	п	3.0	31.0	43	<u></u>
	n	li .	п	5.5	32.0	76	-
	81	II.	u	7.9	32.0	97	-
	п	0	п	10.4	32.5	104	-
	MHW	ii	13.4	0.6	33.0	17	-
	Ji	п	н	3.0	34.0	23	-
	п	п	п	5.5	35.0	22	-
	п	п	O	7.9	35.0	28	-
	н	į į	n	10.4	35.5	33	-
	11	н	u	12.8	35.5	36	*
	Mid- Ebb	n	11.9	0.6	31.0	24	-
	п	11	16	3.0	31.0	25	-
	н	n	14	5.5	31.5	33	-
	п	u	п	7.9	31.5	39	-
	**	11	13	10.4	32.5	54	-
0-61	MLW	п	11.6	0.6	29.5	13	-
		п	11	3.0	30.5	22	-
		п	tı	5.5	31.0	21	-
		n	н	7.9	31.5	18	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (°/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-61	MLW	Summer 1970	11.6	10.4	32.0	38	-
	Mid- Flood	п	12.7	0.6	31.0	34	-
		n	ti	3.0	31.5	45	-
		п	11	5.5	32.0	73	-
		п	п	7.9	33.0	89	-
		п	u	10.4	34.0	110	-
	MHW	tt	13.7	0.6	34.0	38	-
		и	п	3.0	34.5	46	-
		14	ti	5.5	35.0	34	-
		n	11	7.9	35.0	32	-
	ш	п	u	10.4	35.5	44	-
	II	n	В	12.8	35.5	56	-
	Mid- Ebb	п	12.7	0.6	30.5	11	-
		11	11	3.0	30.5	15	-
		11	31	5.5	31.0	18	-
		n	n	7.9	31.5	33	-
		п	п	10.4	32.0	62	-
0-62	MLW	n	6.7	0.6	29.5	20	**
	н	п	H	3.0	30.0	27	-
	p	11	п	5.5	31.0	34	
	Mid- Flood	и	7.9	0.6	32.0	35	-
	п	11	п	3.0	37.5	34	-
	ш	ti .	u	5.5	32.5	49	-
	В	Ш	п	7.8	33.5	107	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-62	MHW	Summer 1970	9.1	0.6	34.5	40	-
	H	п	п	3.0	34.5	52	-
	и	п	и	5.5	35.0	42	-
	п	u	н	7.9	35.0	37	-
	Mid- Ebb	и	7.9	0.6	30.5	17	-
	п	14	п	3.0	30.5	31	-
	n	П	п	5.5	31.5	97	-
0-63	MLW	11	1.8	0.6	29.5	18	-
	Mid- Flood	п	2.4	0.6	33.0	19	-
	MHW	п	3.0	0.6	35.5	25	-
	Mid- Ebb	II	2.4	0.6	32.5	13	-
0-64	MLW	п	3.0	0.6	30.0	15	-
	Mid- Flood	11	3.5	0.6	33.0	22	-
	ti	it	п	3.0	34.0	35	-
	MHW	+ I	5.5	0.6	35.5	16	-
	н	11	B	3.0	35.5	27	-
	Mid- Ebb	н	3.5	0.6	32.5	9	-
	п	n	3.5	3.0	32.5	16	-
0-65	MLW	Ц	6.7	0.6	29.0	11	-
	11	н	п	3.0	29.5	19	
	13	п	6.7	5.5	31.5	45	-
	Mid- Flood	п	7.3	0.6	32.5	14	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-65	Mid- Flood	Summer 1970	7.3	3.0	34.5	18	-
	11	П	1F	5.5	35.0	43	-
	MHW	11	8.5	0.6	35.5	12	-
	11) t	п	3.0	35.5	15	-
	Ii	n	п	5.5	36.0	20	-
	11	П	п	7.9	36.0	26	-
	Mid- Ebb	п	7.3	0.6	32.0	70	-
	11	II.	11	3.0	32.5	14	-
	\$ 1	11	16	5.5	33.0	17	-
0-66	MLW	li	8.8	0.6	28.5	7	-
	n	11	11	3.0	30.5	14	-
	11	11	н	5.5	31.5	4 2	-
	п	и	н	7.9	33.0	131	-
	Mid- Flood	tı	9.6	0.6	33.0	16	~
	п	п	п	3.0	33.5	22	-
	11	п	If	5.5	35.0	38	-
	11	tt.	п	7.9	35.5	69	-
	MHW	п	10.7	0.6	36.0	4	-
	n	П	п	3.0	36.0	5	-
	1‡	п	n	5.5	36.0	8	-
	п	н	u	7.9	36.0	11	-
	ย	II .	н	10.4	36.0	17	-
	Mid- Ebb	u	9.6	0.6	30.5	15	-
	11	п	tt.	3.0	31.0	13	-

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (°/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
0-66	Mid- Ebb	Summer 1970	9.6	5.5	31.5	19	-
	n	11	п	7.9	32.5	47	-
0-67	MLW	п	6.1	0.6	30.0	13	-
	11	n	П	3.0	30.5	17	-
	11	п	U	5.5	31.0	19	-
	Mid- Flood	п	6.9	0.6	33.5	84	-
	Н	n	11	3.0	33.5	195	-
	п	11	н	5.5	34.0	245	-
	MHW	п	7.7	0.6	35.5	7	_
	п	11	п	3.0	35.5	5	-
	II .	11	11	5.5	36.0	8	-
	Mid- Ebb	11	6.9	0.6	30.0	19	-
	tt.	н	IT	3.0	31.5	23	<u>-</u>
	п	II.	П	5.5	32.5	47	-
C SERIES							
C-1	1330	2/26/75	11.9	0.3	!	66.0	19.3
		H		10.9		38.7	21.2
C-2	1322	2/26/75	11.7	0.3] 	18.0	31.0
				10.7	i Z W	32.3	23.4
C-3	1315	2/26/75	4.3	0.3	TAKEN	23.0	13.0
			n	3.3	NOT	23.8	11.3
C-4	1303	2/26/75	5.8	0.3	!	17.4	10.3
			11	4.8	İ	26.0	14.4

C-5	STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (°/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
	C-5	1250	2/26/75	6.1	0.3	!	3.8	42.1
C-6 1242 2/26/75 6.7 0.3 1.5 1.5 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1			•	u	5.7	1	22.4	13.4
C-7 1228 2/26/75 6.1 0.3 3.6 3.2 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.1 3.2 3.1 3.2 3.1 3.2 3.1 3.2 3.1 3.2	C-6	1242	2/26/75	6.7	0.3		2.5	32.0
C-8 1220 2/26/75 10.1 0.3 4.2 " 9.1 9.3 33 C-9 1815 8/26/75 3.7 0.3 24.0 11.2 " 2.7 25.0 81.2 22 C-10 1820 8/26/75 13.3 0.3 25.0 4.5 " 12.3 26.0 23.1 25.0 6.5 1 C-11 1825 8/26/75 16.5 0.3 25.0 6.5 1 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 C-12 1830 8/26/75 7.8 0.3 26.0 6.5 4 C-13 1835 8/26/75 7.3 0.3 26.0 6.5 4 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1				u	5.7	₩ - -	2.1	23.8
C-8 1220 2/26/75 10.1 0.3 4.2 " 9.1 9.3 33 C-9 1815 8/26/75 3.7 0.3 24.0 11.2 " 2.7 25.0 81.2 22 C-10 1820 8/26/75 13.3 0.3 25.0 4.5 " 12.3 26.0 23.1 25.0 6.5 1 C-11 1825 8/26/75 16.5 0.3 25.0 6.5 1 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 C-12 1830 8/26/75 7.8 0.3 26.0 6.5 4 C-13 1835 8/26/75 7.3 0.3 26.0 6.5 4 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1	C-7	1228	2/26/75	6.1	0.3	r TAk	3.6	5.6
C-8				11	5.1	.NO.	4.6	21.7
C-9 1815 8/26/75 3.7 0.3 24.0 11.2 11.2 11.2 1.2 1.2 1.2 1.2 1.2 1.2	C-8	1220	2/26/75	10.1	0.3		4.2	9.5
C-10 1820 8/26/75 13.3 0.3 25.0 4.5 " 12.3 26.0 23.1 C-11 1825 8/26/75 16.5 0.3 25.0 6.5 " 15.5 26.0 18.0 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15 1845 8/26/75 2.1 0.3 28.0 4.0 C-15 185 8/26/75 3.7 0.3 28.0 7.8 3 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				n	9.1		9.3	38.7
C-10 1820 8/26/75 13.3 0.3 25.0 4.5 23.1 C-11 1825 8/26/75 16.5 0.3 25.0 6.5 1 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15 1845 8/26/75 2.1 0.3 28.0 4.0 1 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-9	1815	8/26/75	3.7	0.3	24.0	11.2	0.0
C-10 1820 8/26/75 13.3 0.3 25.0 23.1 C-11 1825 8/26/75 16.5 0.3 25.0 6.5 1 " 15.5 26.0 18.0 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 " 1.4 27.5 15.1 2 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				11	2.7	25.0	81.2	22.2
C-11 1825 8/26/75 16.5 0.3 25.0 6.5 1 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15 1845 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-10	1820	8/26/75	13.3	0.3	25.0	4.5	5.6
C-11 1825 8/26/75 16.5 0.3 25.0 18.0 C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 " 1.4 27.5 15.1 2 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				\$1	12.3	26.0	23.1	2.5
C-12 1830 8/26/75 10.1 0.3 26.0 8.5 " 9.1 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-11	1825	8/26/75	16.5	0.3	25.0	6.5	11.5
C-12 1830 8/26/75 10.1 0.3 26.0 16.0 C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 " 6.8 27.0 11.0 1 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 " 1.4 27.5 15.1 2 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				п	15.5	26.0	18.0	7.9
C-13 1835 8/26/75 7.8 0.3 26.0 6.5 4 C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-12	1830	8/26/75	10.1	0.3	26.0	8.5	5.9
C-13				H	9.1	26.0	16.0	0.0
C-14 1840 8/26/75 7.3 0.3 26.0 5.0 1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-13	1835	8/26/75	7.8	0.3	26.0	6.5	42.3
C-14 1840 8/26/75 7.3 870 7.1 7.3 27.0 7.1 C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 1.1 28.0 6.0 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				п	6.8	27.0	11.0	15.9
C-15 1845 8/26/75 2.4 0.3 26.5 5.3 3 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-14	1840	8/26/75	7.3	0.3	26.0	5.0	15.0
C-15 1845 8/26/75 2.4 0.3 28.0 15.1 2 C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 1.1 28.0 6.0 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				п	7.3	27.0	7.1	3.1
C-15a 1850 8/26/75 2.1 0.3 28.0 4.0 1 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-15	1845	8/26/75	2.4	0.3	26.5	5.3	33.4
C-15a 1850 8/20/75 2.1 0.0 28.0 6.0 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3				п	1.4	27.5	15.1	26.5
1.1 28.0 6.0 C-16 1855 8/26/75 3.7 0.3 28.0 7.8 3	C-15a	1850	8/26/75	2.1	0.3	28.0	4.0	16.8
C-16 1855 6/20/75 3.7 0.5 E515					1.1	28.0	6.0	6.7
	C-16	1855	8/26/75	3.7	0.3	28.0	7.8	32.3
" 2.7 29.5 /.3				п	2.7	29.5	7.3	1.7

STATION NO.	TIME	DATE	WATER DEPTH (meters)	SAMPLE DEPTH (meters)	SALINITY (º/oo)	TOTAL SUSPENDED MATTER (mg/1)	PERCENT ORGANICS
C-17	1900	8/26/75	5.2	0.3	28.5	3.0	0.0
			п	4.2	28.5	2.8	-
C-18	1905	8/26/75	4.6	0.3	29.0	2.2	0.0
			11:	3.6	29.5	2.2	0.0
C-19	1910	8/26/75	4.9	0.3	29.5	5.6	28.6
			п	3.9	30.0	2.9	0.0
C-20	1915	8/26/75	6.4	0.3	29.5	0.6	0.0
			11	5.4	30.5	2.0	0.0
C-21	1920	8/26/75	7.9	0.3	29.5	3.5	28.6
			\$ž	6.9	31.0	5.3	24.5
C-22	1925	8/26/75	10.7	0.3	30.0	2.5	30.0
			п	9.7	31.5	0.6	0.0
C-23	1930	8/26/75	13.7	0.3	30.5	4.1	-
			(I	12.7	32.0	6.9	47.8
C-24	1948	8/26/75	18.9	0.3	26.5	2.9	44.8
			11	17.9	32.0	4.6	37.0
C-25	2015	8/26/75	18.3	0.3	30.5	1.8	33.3
			п	17.3	32.5	5.3	47.2
C-26	2115	8/26/75	11.7	0.3	32.0	2.2	45.5
			и	16.7	32.5	3.3	60.6
C-27	2140	8/26/75	20.7	0.3	27.0	3.1	29.0
			11	19.7	32.0	4.9	18.4
C-28	2210	8/26/75	22.6	0.3	31.5	2.9	-
			II.	21.6	28.5	1.2	0.0
C-29	2240	8/26/75	25.6	0.3	33.0	3.6	44.4
			п	24.6	31.0	1.4	_