

**Transect data for the Gulf of Mexico from NECOP website
(<http://www.aoml.noaa.gov/ocd/necop/>) for July 24-29,1993**

Transect I

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/28/1993	I	1	29:32.00'	92:45.00'	2.0	6.8	27.3	30.3	15.9
7/28/1993	I	1	29:32.00'	92:45.00'	3.0	6.8	27.4	30.3	16.0
7/28/1993	I	1	29:32.00'	92:45.00'	4.0	5.9	27.7	30.0	16.3
7/28/1993	I	1	29:32.00'	92:45.00'	5.0	4.0	27.6	29.8	16.3
7/28/1993	I	1	29:32.00'	92:45.00'	6.0	2.5	27.7	29.5	16.4
7/28/1993	I	1	29:32.00'	92:45.00'	7.0	1.6	27.9	29.2	16.7
7/28/1993	I	1	29:32.00'	92:45.00'	9.0	0.5	29.3	28.4	18.0
7/28/1993	I	1	29:32.00'	92:45.00'	9.8	0.3	30.4	28.0	18.9
7/28/1993	I	1	29:32.00'	92:45.00'	10.0	0.3	30.4	27.9	19.0
7/28/1993	I	1	29:32.00'	92:45.00'	10.0	0.3	30.5	27.9	19.0
Station 1 Depth = 10.0 meters									
7/28/1993	I	2	29:24.50'	92:45.00'	1.2	6.8	26.6	31.2	15.1
7/28/1993	I	2	29:24.50'	92:45.00'	2.0	7.1	27.0	31.0	15.4
7/28/1993	I	2	29:24.50'	92:45.00'	3.0	7.1	27.2	30.7	15.6
7/28/1993	I	2	29:24.50'	92:45.00'	4.0	6.8	27.3	30.2	15.9
7/28/1993	I	2	29:24.50'	92:45.00'	5.0	6.8	27.3	30.1	16.0
7/28/1993	I	2	29:24.50'	92:45.00'	6.0	6.7	27.3	30.1	16.0
7/28/1993	I	2	29:24.50'	92:45.00'	7.1	6.5	27.4	29.9	16.0
7/28/1993	I	2	29:24.50'	92:45.00'	8.0	6.3	27.4	29.9	16.1
7/28/1993	I	2	29:24.50'	92:45.00'	9.0	6.0	27.5	29.8	16.2
7/28/1993	I	2	29:24.50'	92:45.00'	10.0	5.6	27.5	29.7	16.2
7/28/1993	I	2	29:24.50'	92:45.00'	11.0	4.5	27.5	29.5	16.3
7/28/1993	I	2	29:24.50'	92:45.00'	11.2	3.7	27.6	29.4	16.4
7/28/1993	I	2	29:24.50'	92:45.00'	11.4	2.2	27.5	29.3	16.4
7/28/1993	I	2	29:24.50'	92:45.00'	11.6	2.4	27.7	29.2	16.5
7/28/1993	I	2	29:24.50'	92:45.00'	11.8	2.7	28.1	29.0	16.9
7/28/1993	I	2	29:24.50'	92:45.00'	12.0	2.3	28.0	29.0	16.8
7/28/1993	I	2	29:24.50'	92:45.00'	12.2	1.6	28.7	29.1	17.3
7/28/1993	I	2	29:24.50'	92:45.00'	12.8	1.2	29.5	28.3	18.1
7/28/1993	I	2	29:24.50'	92:45.00'	13.0	1.2	30.6	27.9	19.1
7/28/1993	I	2	29:24.50'	92:45.00'	13.4	0.7	30.9	27.5	19.5
7/28/1993	I	2	29:24.50'	92:45.00'	13.8	0.2	31.7	27.2	20.2
7/28/1993	I	2	29:24.50'	92:45.00'	13.9	0.3	31.8	27.2	20.3
Station 2 Depth = 13.9 meters									
7/28/1993	I	3	29:17.70'	92:45.00'	1.4	6.6	25.4	31.5	14.1
7/28/1993	I	3	29:17.70'	92:45.00'	2.0	6.5	25.4	31.5	14.1
7/28/1993	I	3	29:17.70'	92:45.00'	3.0	6.7	26.2	30.5	15.0
7/28/1993	I	3	29:17.70'	92:45.00'	4.0	6.6	26.8	30.6	15.4
7/28/1993	I	3	29:17.70'	92:45.00'	5.0	6.6	27.4	30.5	15.9
7/28/1993	I	3	29:17.70'	92:45.00'	6.0	6.5	27.8	30.4	16.2
7/28/1993	I	3	29:17.70'	92:45.00'	7.0	6.5	27.9	30.4	16.3
7/28/1993	I	3	29:17.70'	92:45.00'	8.1	6.4	28.2	30.2	16.6
7/28/1993	I	3	29:17.70'	92:45.00'	9.0	6.2	28.9	30.2	17.1

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Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/28/1993	I	3	29:17.70'	92:45.00'	10.0	6.2	29.2	30.2	17.3
7/28/1993	I	3	29:17.70'	92:45.00'	11.0	6.3	29.6	30.2	17.6
7/28/1993	I	3	29:17.70'	92:45.00'	12.0	6.2	29.7	30.0	17.8
7/28/1993	I	3	29:17.70'	92:45.00'	13.0	6.1	29.8	29.9	17.9
7/28/1993	I	3	29:17.70'	92:45.00'	14.0	5.9	29.9	29.7	18.0
7/28/1993	I	3	29:17.70'	92:45.00'	15.0	5.3	30.4	29.0	18.6
7/28/1993	I	3	29:17.70'	92:45.00'	15.2	5.0	30.5	29.0	18.7
7/28/1993	I	3	29:17.70'	92:45.00'	15.4	4.6	30.5	29.1	18.6
7/28/1993	I	3	29:17.70'	92:45.00'	15.6	4.4	30.6	28.8	18.9
7/28/1993	I	3	29:17.70'	92:45.00'	15.8	4.3	31.1	28.1	19.4
7/28/1993	I	3	29:17.70'	92:45.00'	16.0	2.0	31.7	27.5	20.1
7/28/1993	I	3	29:17.70'	92:45.00'	16.2	1.8	31.7	27.4	20.1
7/28/1993	I	3	29:17.70'	92:45.00'	16.2	1.7	31.9	27.2	20.3
7/28/1993	I	3	29:17.70'	92:45.00'	16.3	1.5	32.0	27.2	20.4
Station 3 Depth = 16.3 meters									
7/28/1993	I	4	29:10.50'	92:45.00'	2.0	6.8	25.4	31.1	14.2
7/28/1993	I	4	29:10.50'	92:45.00'	3.0	6.7	26.5	31.2	15.0
7/28/1993	I	4	29:10.50'	92:45.00'	4.1	6.6	27.2	30.8	15.6
7/28/1993	I	4	29:10.50'	92:45.00'	5.0	6.7	27.6	30.4	16.1
7/28/1993	I	4	29:10.50'	92:45.00'	6.0	6.7	28.2	30.5	16.5
7/28/1993	I	4	29:10.50'	92:45.00'	7.0	6.7	28.8	30.5	16.9
7/28/1993	I	4	29:10.50'	92:45.00'	8.0	6.7	29.1	30.3	17.2
7/28/1993	I	4	29:10.50'	92:45.00'	9.0	6.7	29.3	30.3	17.3
7/28/1993	I	4	29:10.50'	92:45.00'	10.0	6.6	29.4	30.4	17.4
7/28/1993	I	4	29:10.50'	92:45.00'	11.0	6.6	29.6	30.3	17.6
7/28/1993	I	4	29:10.50'	92:45.00'	12.0	6.5	30.0	30.2	17.9
7/28/1993	I	4	29:10.50'	92:45.00'	13.0	6.4	30.5	29.7	18.4
7/28/1993	I	4	29:10.50'	92:45.00'	14.0	6.4	30.8	29.6	18.7
7/28/1993	I	4	29:10.50'	92:45.00'	15.0	5.3	31.5	28.9	19.4
7/28/1993	I	4	29:10.50'	92:45.00'	16.1	4.4	32.0	27.8	20.2
7/28/1993	I	4	29:10.50'	92:45.00'	16.6	4.2	32.5	27.3	20.8
7/28/1993	I	4	29:10.50'	92:45.00'	16.8	3.4	32.6	27.2	20.9
7/28/1993	I	4	29:10.50'	92:45.00'	17.0	1.9	32.7	27.1	20.9
7/28/1993	I	4	29:10.50'	92:45.00'	18.0	1.6	34.0	25.4	22.4
7/28/1993	I	4	29:10.50'	92:45.00'	18.5	1.5	34.0	25.3	22.5
7/28/1993	I	4	29:10.50'	92:45.00'	19.0	1.0	34.0	25.3	22.5
7/28/1993	I	4	29:10.50'	92:45.00'	19.1	0.4	34.2	25.0	22.7
7/28/1993	I	4	29:10.50'	92:45.00'	19.4	0.4	34.2	24.9	22.8
7/28/1993	I	4	29:10.50'	92:45.00'	19.5	0.4	34.2	24.9	22.8
Station 4 Depth = 19.5 meters									
7/28/1993	I	5	29:03.00'	92:45.00'	1.1	6.5	26.0	31.7	14.5
7/28/1993	I	5	29:03.00'	92:45.00'	2.0	6.7	26.2	31.0	14.9
7/28/1993	I	5	29:03.00'	92:45.00'	3.0	6.6	26.1	30.9	14.8

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Date	Trn.	Stn.	Lat.	Long.	Depth	D.O.	Sal.	Temp.	Density
			deg:min	deg:min	(m)	(mg/L)	(ppt.)	(Cent.)	Sigma-t
7/28/1993	I	5	29:03.00'	92:45.00'	4.0	6.5	26.3	31.0	14.9
7/28/1993	I	5	29:03.00'	92:45.00'	5.0	6.4	26.5	31.0	15.0
7/28/1993	I	5	29:03.00'	92:45.00'	6.0	6.4	26.9	30.6	15.5
7/28/1993	I	5	29:03.00'	92:45.00'	7.0	6.5	27.7	30.5	16.1
7/28/1993	I	5	29:03.00'	92:45.00'	8.0	6.2	28.0	30.3	16.4
7/28/1993	I	5	29:03.00'	92:45.00'	9.0	5.0	28.4	29.8	16.8
7/28/1993	I	5	29:03.00'	92:45.00'	10.0	4.2	29.1	29.5	17.5
7/28/1993	I	5	29:03.00'	92:45.00'	11.0	5.5	30.3	29.6	18.4
7/28/1993	I	5	29:03.00'	92:45.00'	12.0	6.2	31.0	29.6	18.9
7/28/1993	I	5	29:03.00'	92:45.00'	13.0	6.1	31.2	29.3	19.1
7/28/1993	I	5	29:03.00'	92:45.00'	14.0	6.3	31.6	29.5	19.4
7/28/1993	I	5	29:03.00'	92:45.00'	15.0	6.2	31.8	29.1	19.6
7/28/1993	I	5	29:03.00'	92:45.00'	16.0	6.0	32.1	28.8	20.0
7/28/1993	I	5	29:03.00'	92:45.00'	17.0	5.5	32.5	28.4	20.4
7/28/1993	I	5	29:03.00'	92:45.00'	18.0	5.0	32.9	27.6	20.9
7/28/1993	I	5	29:03.00'	92:45.00'	19.0	4.6	33.1	27.0	21.3
7/28/1993	I	5	29:03.00'	92:45.00'	20.0	4.1	33.8	25.8	22.2
7/28/1993	I	5	29:03.00'	92:45.00'	21.0	3.2	34.5	24.7	23.0
7/28/1993	I	5	29:03.00'	92:45.00'	22.0	2.5	34.8	24.3	23.4
7/28/1993	I	5	29:03.00'	92:45.00'	22.9	2.2	34.8	24.3	23.4
7/28/1993	I	5	29:03.00'	92:45.00'	23.0	2.3	34.8	24.2	23.4
7/28/1993	I	5	29:03.00'	92:45.00'	23.1	2.3	34.8	24.1	23.5
Station 5 Depth = 23.1 meters									

Units for variables:

Trn. Transect

Stn. = Station

Lat. = Latitude in degrees: minutes. hundredths of a minute (deg:min)

Long. = Longitude in degrees: minutes. hundredths of a minute (deg:min)

Depth in meters (m)

D.O. = Dissolved Oxygen in milligrams per liter (mg/L)

Sal. = Salinity in parts per thousand (ppt.)

Temp. = Temperature in degrees Centigrade (Cent.)

Density (Sigma-t).

Note: Longitude for several stations was incorrect in the original data and changed on this data set