

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

**Transect E**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/26/1993	E	1	28:58.00'	91:15.00'	1.0	7.3	19.5	30.2	10.0
7/26/1993	E	1	28:58.00'	91:15.00'	1.0	7.3	19.5	30.3	10.1
7/26/1993	E	1	28:58.00'	91:15.00'	2.0	7.5	19.7	30.2	10.2
7/26/1993	E	1	28:58.00'	91:15.00'	2.5	5.6	21.2	30.1	11.4
7/26/1993	E	1	28:58.00'	91:15.00'	3.0	5.1	23.2	30.0	12.9
7/26/1993	E	1	28:58.00'	91:15.00'	3.2	5.1	23.1	30.1	12.8
7/26/1993	E	1	28:58.00'	91:15.00'	3.4	4.0	23.5	30.0	13.2
7/26/1993	E	1	28:58.00'	91:15.00'	3.6	3.8	23.7	29.9	13.3
7/26/1993	E	1	28:58.00'	91:15.00'	3.8	3.4	23.8	29.9	13.4
7/26/1993	E	1	28:58.00'	91:15.00'	3.8	3.5	23.7	29.9	13.3
<b>Station 1 Depth = 3.8 meters</b>									
7/26/1993	E	2	28:51.50'	91:15.00'	1.4	6.4	19.3	30.8	9.7
7/26/1993	E	2	28:51.50'	91:15.00'	2.0	6.1	19.4	30.7	9.9
7/26/1993	E	2	28:51.50'	91:15.00'	3.1	5.6	20.2	30.5	10.5
7/26/1993	E	2	28:51.50'	91:15.00'	4.0	4.9	21.1	30.3	11.3
7/26/1993	E	2	28:51.50'	91:15.00'	4.6	4.4	22.0	30.2	12.0
7/26/1993	E	2	28:51.50'	91:15.00'	5.0	3.7	23.0	29.7	12.9
7/26/1993	E	2	28:51.50'	91:15.00'	5.3	2.6	24.0	29.5	13.7
7/26/1993	E	2	28:51.50'	91:15.00'	5.4	2.2	25.0	29.0	14.6
7/26/1993	E	2	28:51.50'	91:15.00'	5.6	1.4	26.6	28.4	15.9
7/26/1993	E	2	28:51.50'	91:15.00'	5.8	1.1	33.0	26.4	21.4
7/26/1993	E	2	28:51.50'	91:15.00'	6.0	0.8	33.1	26.1	21.5
7/26/1993	E	2	28:51.50'	91:15.00'	6.7	0.2	34.1	25.7	22.4
<b>Station 2 Depth = 6.7 meters</b>									
7/26/1993	E	2A	28:44.50'	91:15.00'	1.0	6.9	23.3	32.8	12.1
7/26/1993	E	2A	28:44.50'	91:15.00'	1.0	6.9	23.3	32.9	12.1
7/26/1993	E	2A	28:44.50'	91:15.00'	1.2	6.8	23.3	32.9	12.0
7/26/1993	E	2A	28:44.50'	91:15.00'	2.0	7.2	23.6	31.2	12.8
7/26/1993	E	2A	28:44.50'	91:15.00'	3.0	7.1	23.7	31.1	12.9
7/26/1993	E	2A	28:44.50'	91:15.00'	4.0	7.1	23.7	30.7	13.0
7/26/1993	E	2A	28:44.50'	91:15.00'	5.0	7.0	23.8	30.6	13.1
7/26/1993	E	2A	28:44.50'	91:15.00'	6.0	6.8	24.3	30.4	13.6
7/26/1993	E	2A	28:44.50'	91:15.00'	7.0	6.5	26.1	30.5	14.9
7/26/1993	E	2A	28:44.50'	91:15.00'	7.6	6.3	26.6	30.4	15.3
7/26/1993	E	2A	28:44.50'	91:15.00'	8.0	5.7	27.3	29.9	16.0
7/26/1993	E	2A	28:44.50'	91:15.00'	9.1	5.3	28.5	29.4	17.1
7/26/1993	E	2A	28:44.50'	91:15.00'	10.0	5.3	28.9	29.3	17.4
7/26/1993	E	2A	28:44.50'	91:15.00'	11.0	5.0	29.4	28.8	17.9
7/26/1993	E	2A	28:44.50'	91:15.00'	11.2	3.0	29.7	28.4	18.2
7/26/1993	E	2A	28:44.50'	91:15.00'	11.4	3.3	30.1	27.9	18.7
7/26/1993	E	2A	28:44.50'	91:15.00'	11.6	2.6	30.5	27.6	19.1
7/26/1993	E	2A	28:44.50'	91:15.00'	11.8	2.2	30.8	27.1	19.5
7/26/1993	E	2A	28:44.50'	91:15.00'	12.0	1.2	32.0	26.5	20.7

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**Transect E**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/26/1993	E	2A	28:44.50'	91:15.00'	12.4	0.8	34.4	24.8	22.9
7/26/1993	E	2A	28:44.50'	91:15.00'	13.0	0.6	34.5	24.5	23.1
7/26/1993	E	2A	28:44.50'	91:15.00'	13.4	0.2	34.5	24.4	23.1
7/26/1993	E	2A	28:44.50'	91:15.00'	13.6	0.3	34.5	24.4	23.2
<b>Station 2A Depth = 13.6 meters</b>									
7/26/1993	E	3	28:39.50'	91:15.00'	1.0	6.6	24.8	32.6	13.2
7/26/1993	E	3	28:39.50'	91:15.00'	1.0	6.6	24.8	32.6	13.2
7/26/1993	E	3	28:39.50'	91:15.00'	2.1	6.6	24.8	32.6	13.3
7/26/1993	E	3	28:39.50'	91:15.00'	3.0	6.6	25.2	32.1	13.7
7/26/1993	E	3	28:39.50'	91:15.00'	4.0	6.8	25.5	30.7	14.4
7/26/1993	E	3	28:39.50'	91:15.00'	5.0	6.7	25.5	30.4	14.5
7/26/1993	E	3	28:39.50'	91:15.00'	6.0	6.7	25.5	30.2	14.6
7/26/1993	E	3	28:39.50'	91:15.00'	7.0	6.6	25.6	30.3	14.6
7/26/1993	E	3	28:39.50'	91:15.00'	8.0	6.6	25.7	30.2	14.7
7/26/1993	E	3	28:39.50'	91:15.00'	9.0	6.5	26.1	30.2	15.0
7/26/1993	E	3	28:39.50'	91:15.00'	10.0	6.2	27.4	30.0	16.0
7/26/1993	E	3	28:39.50'	91:15.00'	11.0	6.0	27.8	30.0	16.3
7/26/1993	E	3	28:39.50'	91:15.00'	12.0	5.8	28.1	29.6	16.7
7/26/1993	E	3	28:39.50'	91:15.00'	13.0	5.4	28.6	29.3	17.2
7/26/1993	E	3	28:39.50'	91:15.00'	14.0	4.5	29.9	28.3	18.4
7/26/1993	E	3	28:39.50'	91:15.00'	15.0	3.6	31.0	27.8	19.5
7/26/1993	E	3	28:39.50'	91:15.00'	15.6	1.6	32.0	26.5	20.6
7/26/1993	E	3	28:39.50'	91:15.00'	15.8	1.3	32.9	25.5	21.6
7/26/1993	E	3	28:39.50'	91:15.00'	16.0	1.2	32.9	25.6	21.5
7/26/1993	E	3	28:39.50'	91:15.00'	16.6	0.8	34.0	24.8	22.7
7/26/1993	E	3	28:39.50'	91:15.00'	17.0	0.6	34.5	24.3	23.1
7/26/1993	E	3	28:39.50'	91:15.00'	18.0	0.4	34.4	24.3	23.1
7/26/1993	E	3	28:39.50'	91:15.00'	19.0	0.4	34.5	24.1	23.3
7/26/1993	E	3	28:39.50'	91:15.00'	20.0	0.3	34.6	24.0	23.4
7/26/1993	E	3	28:39.50'	91:15.00'	21.1	0.2	34.7	23.8	23.5
<b>Station 3 Depth = 21.1 meters</b>									
7/26/1993	E	4	28:35.00'	91:15.00'	1.0	6.4	25.6	30.9	14.4
7/26/1993	E	4	28:35.00'	91:15.00'	1.0	6.4	25.6	30.9	14.4
7/26/1993	E	4	28:35.00'	91:15.00'	2.0	6.4	25.7	30.3	14.7
7/26/1993	E	4	28:35.00'	91:15.00'	3.0	6.4	25.8	30.4	14.7
7/26/1993	E	4	28:35.00'	91:15.00'	4.0	6.4	25.8	30.3	14.8
7/26/1993	E	4	28:35.00'	91:15.00'	5.0	6.4	25.9	30.2	14.9
7/26/1993	E	4	28:35.00'	91:15.00'	6.1	6.4	25.9	30.2	14.9
7/26/1993	E	4	28:35.00'	91:15.00'	7.0	6.4	26.1	30.1	15.0
7/26/1993	E	4	28:35.00'	91:15.00'	8.0	6.3	26.3	30.2	15.2
7/26/1993	E	4	28:35.00'	91:15.00'	9.0	6.2	26.8	30.1	15.5
7/26/1993	E	4	28:35.00'	91:15.00'	10.0	5.7	27.6	29.9	16.2
7/26/1993	E	4	28:35.00'	91:15.00'	11.0	5.7	28.0	29.7	16.6

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7/26/1993	E	4	28:35.00'	91:15.00'	13.0	5.7	29.6	29.4	17.8
7/26/1993	E	4	28:35.00'	91:15.00'	14.0	5.7	30.0	29.2	18.3
7/26/1993	E	4	28:35.00'	91:15.00'	15.0	5.7	30.3	28.9	18.6
7/26/1993	E	4	28:35.00'	91:15.00'	16.0	5.5	30.5	28.6	18.8
7/26/1993	E	4	28:35.00'	91:15.00'	17.0	5.2	30.6	28.6	18.9
7/26/1993	E	4	28:35.00'	91:15.00'	18.0	5.1	30.9	28.3	19.2
7/26/1993	E	4	28:35.00'	91:15.00'	19.1	5.0	31.3	28.2	19.5
7/26/1993	E	4	28:35.00'	91:15.00'	19.4	4.7	32.0	28.1	20.1
7/26/1993	E	4	28:35.00'	91:15.00'	19.8	3.3	32.6	27.7	20.6
7/26/1993	E	4	28:35.00'	91:15.00'	20.1	3.0	33.1	27.1	21.3
7/26/1993	E	4	28:35.00'	91:15.00'	20.3	3.0	33.5	26.3	21.8
7/26/1993	E	4	28:35.00'	91:15.00'	20.6	2.4	33.9	25.6	22.3
7/26/1993	E	4	28:35.00'	91:15.00'	21.0	2.4	33.9	25.2	22.5
7/26/1993	E	4	28:35.00'	91:15.00'	21.4	1.7	34.1	24.9	22.7
7/26/1993	E	4	28:35.00'	91:15.00'	22.0	1.2	34.1	24.9	22.7
7/26/1993	E	4	28:35.00'	91:15.00'	23.0	0.8	34.9	24.0	23.6
7/26/1993	E	4	28:35.00'	91:15.00'	24.0	0.6	35.1	23.8	23.8
7/26/1993	E	4	28:35.00'	91:15.00'	25.0	0.5	35.2	23.6	23.9
7/26/1993	E	4	28:35.00'	91:15.00'	26.0	0.5	35.4	23.3	24.1
7/26/1993	E	4	28:35.00'	91:15.00'	28.0	0.5	35.6	22.7	24.5
7/26/1993	E	4	28:35.00'	91:15.00'	29.0	0.5	35.7	22.4	24.6
7/26/1993	E	4	28:35.00'	91:15.00'	29.2	0.4	35.6	22.5	24.6
7/26/1993	E	4	28:35.00'	91:15.00'	29.3	0.5	35.7	22.4	24.6
<b>Station 4 Depth = 29.3 meters</b>									
7/26/1993	E	5	28:29.00'	91:15.00'	1.0	6.6	25.5	31.9	14.0
7/26/1993	E	5	28:29.00'	91:15.00'	2.0	6.5	25.8	31.8	14.2
7/26/1993	E	5	28:29.00'	91:15.00'	3.1	6.3	27.5	31.2	15.7
7/26/1993	E	5	28:29.00'	91:15.00'	4.0	6.3	27.7	30.9	15.9
7/26/1993	E	5	28:29.00'	91:15.00'	5.0	6.3	27.8	30.7	16.1
7/26/1993	E	5	28:29.00'	91:15.00'	6.0	6.3	27.7	30.6	16.1
7/26/1993	E	5	28:29.00'	91:15.00'	7.0	6.2	27.7	30.6	16.1
7/26/1993	E	5	28:29.00'	91:15.00'	8.0	6.3	27.7	30.5	16.1
7/26/1993	E	5	28:29.00'	91:15.00'	9.0	6.3	27.8	30.5	16.2
7/26/1993	E	5	28:29.00'	91:15.00'	10.0	6.2	27.8	30.4	16.2
7/26/1993	E	5	28:29.00'	91:15.00'	11.0	6.2	27.9	30.4	16.3
7/26/1993	E	5	28:29.00'	91:15.00'	12.0	6.3	28.8	29.8	17.1
7/26/1993	E	5	28:29.00'	91:15.00'	13.0	6.3	29.2	29.7	17.5
7/26/1993	E	5	28:29.00'	91:15.00'	14.1	6.2	29.5	29.6	17.7
7/26/1993	E	5	28:29.00'	91:15.00'	15.0	6.3	29.8	29.4	18.1
7/26/1993	E	5	28:29.00'	91:15.00'	16.0	5.8	30.3	28.9	18.6
7/26/1993	E	5	28:29.00'	91:15.00'	17.0	5.4	30.4	28.4	18.8
7/26/1993	E	5	28:29.00'	91:15.00'	18.1	5.3	30.6	28.4	19.0
7/26/1993	E	5	28:29.00'	91:15.00'	19.0	5.2	30.7	28.3	19.1
7/26/1993	E	5	28:29.00'	91:15.00'	20.0	5.2	31.0	28.2	19.3

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**Transect E**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/26/1993	E	5	28:29.00'	91:15.00'	21.0	5.1	31.1	28.1	19.4
7/26/1993	E	5	28:29.00'	91:15.00'	22.0	5.0	31.3	27.9	19.7
7/26/1993	E	5	28:29.00'	91:15.00'	23.0	4.9	32.0	27.4	20.3
7/26/1993	E	5	28:29.00'	91:15.00'	24.0	4.0	32.3	27.1	20.7
7/26/1993	E	5	28:29.00'	91:15.00'	25.0	3.4	32.8	26.5	21.2
7/26/1993	E	5	28:29.00'	91:15.00'	26.0	2.9	33.1	26.1	21.6
7/26/1993	E	5	28:29.00'	91:15.00'	26.6	2.1	33.4	25.9	21.8
7/26/1993	E	5	28:29.00'	91:15.00'	27.0	1.7	33.7	25.2	22.3
7/26/1993	E	5	28:29.00'	91:15.00'	27.6	1.4	34.2	24.4	23.0
7/26/1993	E	5	28:29.00'	91:15.00'	28.0	1.2	34.4	24.1	23.2
7/26/1993	E	5	28:29.00'	91:15.00'	28.6	0.8	34.8	23.6	23.6
7/26/1993	E	5	28:29.00'	91:15.00'	29.0	0.8	34.8	22.9	23.8
7/26/1993	E	5	28:29.00'	91:15.00'	30.1	1.1	35.1	22.4	24.2
7/26/1993	E	5	28:29.00'	91:15.00'	31.0	1.3	35.4	22.0	24.6
7/26/1993	E	5	28:29.00'	91:15.00'	32.0	1.6	35.8	21.7	24.9
7/26/1993	E	5	28:29.00'	91:15.00'	32.6	2.0	35.8	21.6	25.0
7/26/1993	E	5	28:29.00'	91:15.00'	33.1	2.5	35.9	21.6	25.0
7/26/1993	E	5	28:29.00'	91:15.00'	34.0	2.9	36.0	21.5	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	35.0	3.1	36.0	21.5	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	36.0	3.1	36.0	21.4	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	37.0	3.2	36.0	21.4	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	38.0	3.2	36.0	21.4	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	39.1	3.2	36.1	21.4	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	40.0	3.1	36.1	21.3	25.2
7/26/1993	E	5	28:29.00'	91:15.00'	40.6	3.1	36.1	21.3	25.2
<b>Station 5 Depth = 40.6 meters</b>									

**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