

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

**Transect B**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/25/1993	B	1	29:04.60'	90:12.47'	1.7	3.9	28.9	28.2	17.8
7/25/1993	B	1	29:04.60'	90:12.47'	2.0	3.9	29.1	28.2	17.9
7/25/1993	B	1	29:04.60'	90:12.47'	3.0	3.9	29.4	28.3	18.1
7/25/1993	B	1	29:04.60'	90:12.47'	4.0	3.4	29.4	28.4	18.1
7/25/1993	B	1	29:04.60'	90:12.47'	4.6	3.2	30.5	28.4	18.9
7/25/1993	B	1	29:04.60'	90:12.47'	4.8	2.8	30.3	28.4	18.8
7/25/1993	B	1	29:04.60'	90:12.47'	5.0	2.4	30.9	28.5	19.1
7/25/1993	B	1	29:04.60'	90:12.47'	5.1	1.7	31.1	28.4	19.3
7/25/1993	B	1	29:04.60'	90:12.47'	6.1	1.4	31.9	28.5	19.9
7/25/1993	B	1	29:04.60'	90:12.47'	6.4	0.6	32.1	28.2	20.2
7/25/1993	B	1	29:04.60'	90:12.47'	6.4	0.9	32.2	28.2	20.2
7/25/1993	B	1	29:04.60'	90:12.47'	6.5	1.3	32.0	28.4	20.0
<b>Station 1 Depth = 6.5 meters</b>									
7/25/1993	B	2	29:04.30'	90:11.41'	1.5	4.4	26.9	28.1	16.3
7/25/1993	B	2	29:04.30'	90:11.41'	2.0	4.4	26.9	28.1	16.3
7/25/1993	B	2	29:04.30'	90:11.41'	3.0	4.4	26.9	28.1	16.3
7/25/1993	B	2	29:04.30'	90:11.41'	4.0	4.5	28.1	28.3	17.1
7/25/1993	B	2	29:04.30'	90:11.41'	4.6	4.4	28.6	28.5	17.4
7/25/1993	B	2	29:04.30'	90:11.41'	5.1	3.7	30.3	28.5	18.8
7/25/1993	B	2	29:04.30'	90:11.41'	5.3	2.5	30.8	28.5	19.1
7/25/1993	B	2	29:04.30'	90:11.41'	5.5	2.6	31.6	28.4	19.7
7/25/1993	B	2	29:04.30'	90:11.41'	5.6	2.0	32.2	28.4	20.1
7/25/1993	B	2	29:04.30'	90:11.41'	5.8	1.9	32.2	28.4	20.2
7/25/1993	B	2	29:04.30'	90:11.41'	6.0	1.8	33.0	28.3	20.8
7/25/1993	B	2	29:04.30'	90:11.41'	6.4	1.5	33.4	28.3	21.1
7/25/1993	B	2	29:04.30'	90:11.41'	7.0	0.7	33.5	27.3	21.5
7/25/1993	B	2	29:04.30'	90:11.41'	7.8	0.4	34.2	27.1	22.1
7/25/1993	B	2	29:04.30'	90:11.41'	8.0	0.4	34.3	27.1	22.1
7/25/1993	B	2	29:04.30'	90:11.41'	8.3	0.3	34.4	26.9	22.3
7/25/1993	B	2	29:04.30'	90:11.41'	8.7	0.2	34.5	26.9	22.4
<b>Station 2 Depth = 8.7 meters</b>									
7/25/1993	B	4	29:01.65'	90:07.25'	1.3	5.6	21.0	28.7	11.7
7/25/1993	B	4	29:01.65'	90:07.25'	2.1	5.6	21.2	28.7	11.8
7/25/1993	B	4	29:01.65'	90:07.25'	3.1	5.6	21.0	28.7	11.7
7/25/1993	B	4	29:01.65'	90:07.25'	4.0	5.2	21.9	28.7	12.4
7/25/1993	B	4	29:01.65'	90:07.25'	4.4	5.1	21.9	28.7	12.4
7/25/1993	B	4	29:01.65'	90:07.25'	4.8	4.9	22.3	28.7	12.6
7/25/1993	B	4	29:01.65'	90:07.25'	5.0	4.3	22.3	28.7	12.6
7/25/1993	B	4	29:01.65'	90:07.25'	5.4	3.4	23.1	28.6	13.3
7/25/1993	B	4	29:01.65'	90:07.25'	5.8	2.4	26.0	28.5	15.5
7/25/1993	B	4	29:01.65'	90:07.25'	6.1	2.3	26.9	28.3	16.2
7/25/1993	B	4	29:01.65'	90:07.25'	6.4	2.0	28.3	28.3	17.3
7/25/1993	B	4	29:01.65'	90:07.25'	7.0	1.8	31.1	28.0	19.4

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**Transect B**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/25/1993	B	4	29:01.65'	90:07.25'	8.0	2.0	33.3	28.1	21.1
7/25/1993	B	4	29:01.65'	90:07.25'	9.0	1.5	34.1	27.8	21.8
7/25/1993	B	4	29:01.65'	90:07.25'	9.3	1.1	34.3	27.6	22.0
7/25/1993	B	4	29:01.65'	90:07.25'	9.4	0.8	34.4	27.6	22.0
7/25/1993	B	4	29:01.65'	90:07.25'	10.0	0.7	34.5	27.5	22.2
7/25/1993	B	4	29:01.65'	90:07.25'	10.2	1.2	34.6	27.5	22.2
7/25/1993	B	4	29:01.65'	90:07.25'	10.5	1.5	34.8	27.5	22.4
7/25/1993	B	4	29:01.65'	90:07.25'	10.6	1.6	34.9	27.4	22.5
7/25/1993	B	4	29:01.65'	90:07.25'	11.0	1.4	35.0	27.4	22.6
7/25/1993	B	4	29:01.65'	90:07.25'	11.2	1.2	35.0	27.4	22.6
7/25/1993	B	4	29:01.65'	90:07.25'	11.4	0.8	35.0	27.1	22.6
7/25/1993	B	4	29:01.65'	90:07.25'	11.7	0.5	35.1	26.8	22.8
7/25/1993	B	4	29:01.65'	90:07.25'	11.8	0.4	35.1	26.2	23.1
7/25/1993	B	4	29:01.65'	90:07.25'	12.1	0.2	35.1	25.9	23.2
7/25/1993	B	4	29:01.65'	90:07.25'	13.0	0.2	35.1	25.8	23.2
7/25/1993	B	4	29:01.65'	90:07.25'	14.0	0.1	35.2	25.6	23.3
7/25/1993	B	4	29:01.65'	90:07.25'	15.0	0.1	35.3	25.6	23.4
7/25/1993	B	4	29:01.65'	90:07.25'	15.6	0.1	35.3	25.6	23.4
<b>Station 4 Depth = 15.6 meters</b>									
7/25/1993	B	6	28:59.60'	90:04.60'	1.6	6.5	17.4	29.1	8.9
7/25/1993	B	6	28:59.60'	90:04.60'	2.1	6.5	17.4	29.1	8.9
7/25/1993	B	6	28:59.60'	90:04.60'	3.0	6.6	17.6	29.1	9.0
7/25/1993	B	6	28:59.60'	90:04.60'	4.0	6.2	18.5	29.2	9.6
7/25/1993	B	6	28:59.60'	90:04.60'	4.2	6.1	19.2	29.4	10.1
7/25/1993	B	6	28:59.60'	90:04.60'	4.4	4.9	22.1	29.5	12.3
7/25/1993	B	6	28:59.60'	90:04.60'	4.6	4.7	22.2	29.3	12.4
7/25/1993	B	6	28:59.60'	90:04.60'	4.8	4.1	22.2	29.3	12.4
7/25/1993	B	6	28:59.60'	90:04.60'	5.1	3.3	24.4	28.8	14.2
7/25/1993	B	6	28:59.60'	90:04.60'	5.6	4.2	27.9	28.8	16.8
7/25/1993	B	6	28:59.60'	90:04.60'	6.0	3.9	29.7	28.8	18.1
7/25/1993	B	6	28:59.60'	90:04.60'	6.2	3.8	30.2	28.6	18.6
7/25/1993	B	6	28:59.60'	90:04.60'	6.4	3.1	30.2	28.5	18.6
7/25/1993	B	6	28:59.60'	90:04.60'	6.8	2.5	31.1	28.1	19.4
7/25/1993	B	6	28:59.60'	90:04.60'	7.0	2.6	31.8	28.2	19.9
7/25/1993	B	6	28:59.60'	90:04.60'	7.2	3.1	32.3	28.2	20.3
7/25/1993	B	6	28:59.60'	90:04.60'	7.7	3.7	33.4	28.3	21.1
7/25/1993	B	6	28:59.60'	90:04.60'	8.0	3.6	33.8	28.2	21.4
7/25/1993	B	6	28:59.60'	90:04.60'	9.0	3.8	34.3	27.9	21.9
7/25/1993	B	6	28:59.60'	90:04.60'	9.4	3.6	34.4	27.8	22.1
7/25/1993	B	6	28:59.60'	90:04.60'	9.8	2.5	34.6	27.7	22.2
7/25/1993	B	6	28:59.60'	90:04.60'	10.0	2.4	34.8	27.5	22.4
7/25/1993	B	6	28:59.60'	90:04.60'	10.4	2.1	34.8	27.4	22.5
7/25/1993	B	6	28:59.60'	90:04.60'	10.8	1.3	34.8	27.4	22.5
7/25/1993	B	6	28:59.60'	90:04.60'	11.0	1.2	34.9	27.4	22.5

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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
7/25/1993	B	6	28:59.60'	90:04.60'	11.5	0.7	35.1	27.2	22.7
7/25/1993	B	6	28:59.60'	90:04.60'	11.8	0.6	35.1	27.1	22.7
7/25/1993	B	6	28:59.60'	90:04.60'	12.0	0.7	35.1	27.1	22.8
7/25/1993	B	6	28:59.60'	90:04.60'	13.1	0.7	35.3	26.7	23.1
7/25/1993	B	6	28:59.60'	90:04.60'	14.0	0.6	35.5	26.4	23.3
7/25/1993	B	6	28:59.60'	90:04.60'	14.4	0.4	35.6	26.3	23.4
7/25/1993	B	6	28:59.60'	90:04.60'	14.8	0.3	35.7	26.2	23.5
7/25/1993	B	6	28:59.60'	90:04.60'	15.0	0.3	35.7	26.1	23.5
7/25/1993	B	6	28:59.60'	90:04.60'	16.0	0.2	35.7	26.0	23.6
7/25/1993	B	6	28:59.60'	90:04.60'	17.0	0.2	35.7	25.9	23.6
7/25/1993	B	6	28:59.60'	90:04.60'	18.0	0.2	35.8	25.9	23.6
7/25/1993	B	6	28:59.60'	90:04.60'	19.0	0.2	35.8	25.9	23.6
7/25/1993	B	6	28:59.60'	90:04.60'	20.0	0.1	35.8	25.8	23.7
7/25/1993	B	6	28:59.60'	90:04.60'	20.6	0.1	35.8	25.7	23.7
7/25/1993	B	6	28:59.60'	90:04.60'	21.1	0.1	35.8	25.7	23.7
<b>Station 6 Depth = 21.1 meters</b>									
7/25/1993	B	8	28:55.45'	90:01.90'	1.6	7.1	16.5	29.2	8.1
7/25/1993	B	8	28:55.45'	90:01.90'	2.0	7.1	16.3	29.2	8.0
7/25/1993	B	8	28:55.45'	90:01.90'	3.1	7.1	16.2	29.2	7.9
7/25/1993	B	8	28:55.45'	90:01.90'	3.4	6.6	17.0	29.4	8.5
7/25/1993	B	8	28:55.45'	90:01.90'	4.0	6.4	19.0	29.9	9.8
7/25/1993	B	8	28:55.45'	90:01.90'	4.4	6.2	20.1	30.0	10.6
7/25/1993	B	8	28:55.45'	90:01.90'	4.9	6.0	20.6	30.0	11.0
7/25/1993	B	8	28:55.45'	90:01.90'	5.1	5.9	20.7	30.0	11.1
7/25/1993	B	8	28:55.45'	90:01.90'	5.4	5.5	21.3	29.9	11.5
7/25/1993	B	8	28:55.45'	90:01.90'	6.0	5.0	23.1	29.7	12.9
7/25/1993	B	8	28:55.45'	90:01.90'	6.4	4.8	24.5	29.5	14.0
7/25/1993	B	8	28:55.45'	90:01.90'	6.8	4.3	25.3	29.1	14.7
7/25/1993	B	8	28:55.45'	90:01.90'	7.0	4.3	26.3	29.1	15.5
7/25/1993	B	8	28:55.45'	90:01.90'	7.4	5.3	28.4	29.6	16.9
7/25/1993	B	8	28:55.45'	90:01.90'	7.8	5.1	29.2	29.3	17.6
7/25/1993	B	8	28:55.45'	90:01.90'	8.0	5.0	29.3	29.4	17.7
7/25/1993	B	8	28:55.45'	90:01.90'	8.4	3.4	29.6	29.2	17.9
7/25/1993	B	8	28:55.45'	90:01.90'	9.0	3.4	30.9	28.3	19.3
7/25/1993	B	8	28:55.45'	90:01.90'	10.1	3.8	33.1	27.6	21.1
7/25/1993	B	8	28:55.45'	90:01.90'	11.0	4.2	33.9	27.6	21.7
7/25/1993	B	8	28:55.45'	90:01.90'	12.0	4.5	34.5	27.3	22.2
7/25/1993	B	8	28:55.45'	90:01.90'	13.0	4.6	34.6	27.2	22.4
7/25/1993	B	8	28:55.45'	90:01.90'	14.0	4.7	34.6	27.1	22.4
7/25/1993	B	8	28:55.45'	90:01.90'	14.4	4.2	34.9	27.1	22.6
7/25/1993	B	8	28:55.45'	90:01.90'	14.8	3.7	35.3	27.2	22.9
7/25/1993	B	8	28:55.45'	90:01.90'	15.1	3.6	35.3	27.2	22.9
7/25/1993	B	8	28:55.45'	90:01.90'	16.0	3.5	35.4	27.1	23.0
7/25/1993	B	8	28:55.45'	90:01.90'	17.1	3.5	35.4	27.0	23.1

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**Transect B**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/25/1993	B	8	28:55.45'	90:01.90'	18.0	3.9	35.6	26.8	23.3
7/25/1993	B	8	28:55.45'	90:01.90'	19.1	4.2	35.7	26.4	23.4
7/25/1993	B	8	28:55.45'	90:01.90'	20.1	4.2	35.8	25.9	23.6
7/25/1993	B	8	28:55.45'	90:01.90'	21.0	3.7	36.0	25.2	24.0
7/25/1993	B	8	28:55.45'	90:01.90'	22.0	3.2	35.8	24.5	24.1
7/25/1993	B	8	28:55.45'	90:01.90'	22.4	3.2	35.8	24.2	24.2
7/25/1993	B	8	28:55.45'	90:01.90'	22.9	2.7	35.7	24.2	24.2
7/25/1993	B	8	28:55.45'	90:01.90'	23.0	2.6	35.9	24.0	24.3
7/25/1993	B	8	28:55.45'	90:01.90'	23.4	2.3	35.9	23.6	24.4
7/25/1993	B	8	28:55.45'	90:01.90'	24.0	1.9	35.8	23.4	24.4
7/25/1993	B	8	28:55.45'	90:01.90'	24.6	1.7	35.9	23.2	24.5
7/25/1993	B	8	28:55.45'	90:01.90'	25.1	1.4	35.9	23.1	24.6
7/25/1993	B	8	28:55.45'	90:01.90'	26.1	1.1	35.9	23.0	24.6
7/25/1993	B	8	28:55.45'	90:01.90'	27.0	0.9	35.9	22.9	24.7
7/25/1993	B	8	28:55.45'	90:01.90'	27.8	0.5	36.0	22.8	24.7
7/25/1993	B	8	28:55.45'	90:01.90'	28.0	0.9	36.0	22.8	24.7
7/25/1993	B	8	28:55.45'	90:01.90'	29.0	0.7	36.0	22.8	24.7
7/25/1993	B	8	28:55.45'	90:01.90'	29.1	0.7	35.9	22.8	24.7
7/25/1993	B	8	28:55.45'	90:01.90'	29.7	0.7	36.0	22.8	24.7
<b>Station 8 Depth = 29.7 meters</b>									
7/25/1993	B	9	28:50.00'	90:00.00'	1.5	6.8	19.0	29.4	10.0
7/25/1993	B	9	28:50.00'	90:00.00'	2.1	6.8	19.0	29.4	10.0
7/25/1993	B	9	28:50.00'	90:00.00'	3.0	6.8	18.8	29.4	9.9
7/25/1993	B	9	28:50.00'	90:00.00'	4.1	6.7	19.2	29.4	10.1
7/25/1993	B	9	28:50.00'	90:00.00'	5.1	6.4	20.2	29.6	10.8
7/25/1993	B	9	28:50.00'	90:00.00'	6.1	6.1	21.7	29.9	11.9
7/25/1993	B	9	28:50.00'	90:00.00'	7.0	6.0	27.1	30.1	15.8
7/25/1993	B	9	28:50.00'	90:00.00'	8.0	5.7	29.1	29.8	17.4
7/25/1993	B	9	28:50.00'	90:00.00'	9.8	5.0	30.6	29.3	18.7
7/25/1993	B	9	28:50.00'	90:00.00'	10.0	4.9	30.8	29.1	18.9
7/25/1993	B	9	28:50.00'	90:00.00'	10.4	4.4	31.1	28.5	19.3
7/25/1993	B	9	28:50.00'	90:00.00'	11.0	3.9	31.7	27.7	20.0
7/25/1993	B	9	28:50.00'	90:00.00'	12.0	4.1	32.6	27.4	20.8
7/25/1993	B	9	28:50.00'	90:00.00'	13.0	4.2	33.0	27.2	21.2
7/25/1993	B	9	28:50.00'	90:00.00'	14.1	4.7	33.6	27.1	21.6
7/25/1993	B	9	28:50.00'	90:00.00'	15.0	5.0	34.2	27.1	22.1
7/25/1993	B	9	28:50.00'	90:00.00'	16.0	5.1	34.4	27.0	22.3
7/25/1993	B	9	28:50.00'	90:00.00'	17.0	5.1	34.7	26.8	22.6
7/25/1993	B	9	28:50.00'	90:00.00'	18.0	5.1	35.0	26.3	22.9
7/25/1993	B	9	28:50.00'	90:00.00'	19.0	5.1	35.0	26.2	23.0
7/25/1993	B	9	28:50.00'	90:00.00'	20.0	5.1	35.1	25.9	23.2
7/25/1993	B	9	28:50.00'	90:00.00'	21.0	5.0	35.2	25.6	23.3
7/25/1993	B	9	28:50.00'	90:00.00'	22.0	5.0	35.3	25.1	23.5
7/25/1993	B	9	28:50.00'	90:00.00'	23.0	5.0	35.4	24.7	23.8

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

**Transect B**

Date	Trn.	Stn.	Lat. deg:min	Long. deg:min	Depth (m)	D.O. (mg/L)	Sal. (ppt.)	Temp. (Cent.)	Density Sigma-t
7/25/1993	B	9	28:50.00'	90:00.00'	24.1	4.9	35.4	24.6	23.8
7/25/1993	B	9	28:50.00'	90:00.00'	25.0	4.7	35.5	24.4	23.9
7/25/1993	B	9	28:50.00'	90:00.00'	26.0	4.4	35.6	24.0	24.1
7/25/1993	B	9	28:50.00'	90:00.00'	27.0	4.2	35.7	24.0	24.2
7/25/1993	B	9	28:50.00'	90:00.00'	28.0	3.6	35.7	23.8	24.3
7/25/1993	B	9	28:50.00'	90:00.00'	29.1	3.1	35.9	23.2	24.6
7/25/1993	B	9	28:50.00'	90:00.00'	29.6	4.0	36.0	23.1	24.7
7/25/1993	B	9	28:50.00'	90:00.00'	30.0	4.8	36.0	22.9	24.8
7/25/1993	B	9	28:50.00'	90:00.00'	31.0	5.2	36.2	22.6	24.9
7/25/1993	B	9	28:50.00'	90:00.00'	33.0	4.7	36.2	22.0	25.1
7/25/1993	B	9	28:50.00'	90:00.00'	34.0	4.3	36.1	21.8	25.1
7/25/1993	B	9	28:50.00'	90:00.00'	35.1	3.7	36.2	21.5	25.3
7/25/1993	B	9	28:50.00'	90:00.00'	36.1	3.5	36.2	21.5	25.3
7/25/1993	B	9	28:50.00'	90:00.00'	37.0	3.3	36.2	21.4	25.3
7/25/1993	B	9	28:50.00'	90:00.00'	38.0	3.2	36.2	21.4	25.3
7/25/1993	B	9	28:50.00'	90:00.00'	38.3	3.2	36.2	21.4	25.3
<b>Station 9 Depth = 38.3 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