Oxygen Isotope Bottles

Bottle #	Dry Weight	Wet Weight	Water Temp.	Contents (ml)
1	254.82	554.26	24.1	300.257
2	250.73	550.55	24.1	301.339
3	254.03	553.76	24.1	300.517
4	253.38	552.95	24	300.381
5	254.56	554.08	24	300.331
6	252.51	552.04	23.9	301.688
7	256.16	554.35	23.9	298.991
8	252.05	553.82	23.9	302.581
9	254.09	554.97	23.8	301.682
10	254.26	553.56	23.8	300.098
11	252.88	553.31	23.7	301.222
12	251.49	551.6	23.7	300.901
13	252.3	553.89	23.7	302.385
14	253.53	553.91	23.6	301.166
15	252.08	552.9	23.6	301.607
16	253.18	552.57	23.5	300.167
17	252.37	552.46	23.5	300.869
18	253.08	552.76	23.5	300.458
19	252.56	553.71	23.4	301.923
20	251.5	553.44	23.4	301.715
21	252.48	553.78	23.3	302.067
22	252.8	554.46	23.3	302.428
23	252.79	552.51	23.2	300.477
24	251.78	552.4	23.2	301.379

Oxygen Isotope Bottles

Bottle #	Dry Weight	Wet Weight	Water Temp.	Contents (ml)
25	255.5	555.34	23	300.582
26	252.84	554.59	23	302.497
27	252.77	553.39	23	301.364
28	252.98	554.73	23	302.497
29	249.48	551.77	23	303.038
30	252.59	551.95	23	300.101
31	254.26	554.9	23	301.083
32	251.75	554.38	23	303.379
33	253.29	554.27	22.9	301.719
34	253.55	552.46	22.9	299.644
35	255.53	555.7	22.9	300.907
36	252.74	552.89	22.9	300.887
37	256.14	554.78	22.9	299.373
38	253.81	555.51	22.9	301.91
39	254.95	553.75	22.9	299.533
40	254.04	552.51	22.9	299.203
41	255.92	555.77	22.8	300.58
42	253.03	554.49	22.8	302.194
43	255.12	554.24	22.8	299.848
44	253.72	554.61	22.8	301.623
45	251.14	552.06	22.8	301.653
46	253.41	554.7	22.8	302.024
47	255.56	556.39	22.8	301.563
48	251.72	552.25	22.8	301.26

Oxygen Isotope Bottles

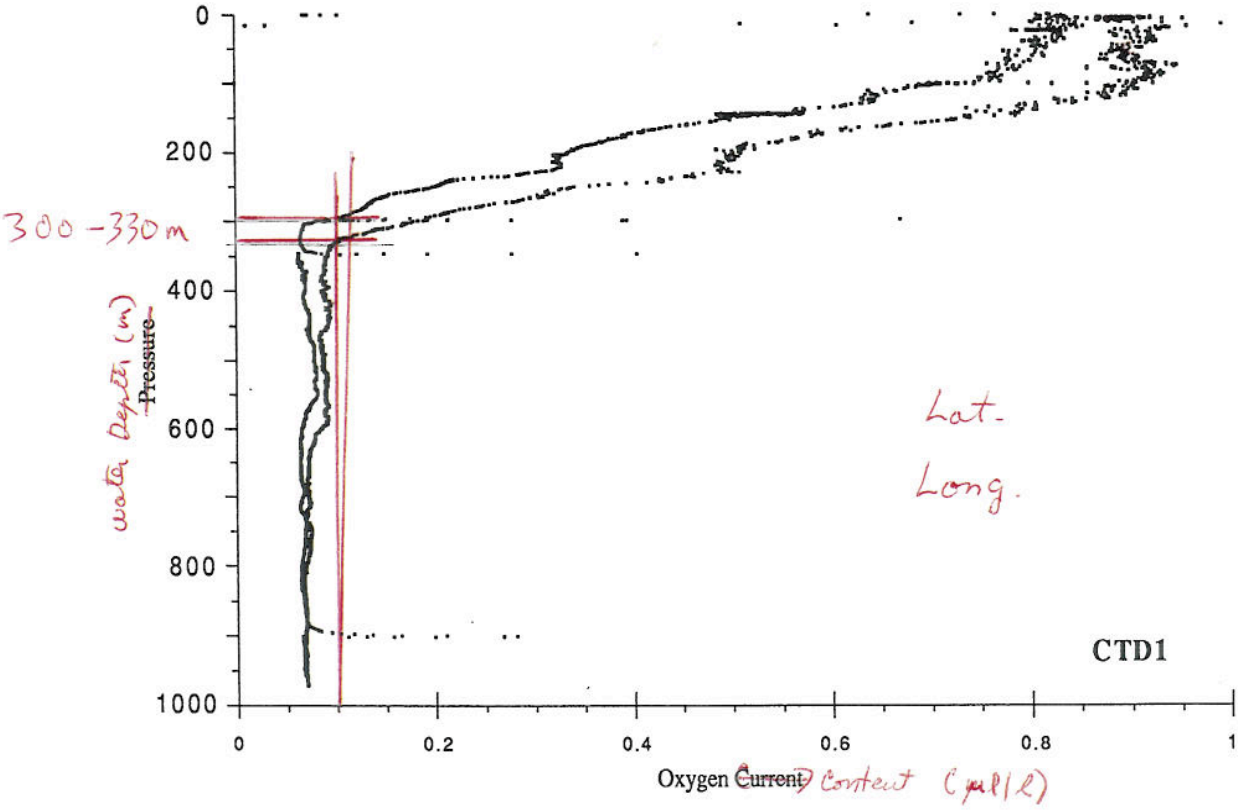
Bottle #	Dry Weight	Wet Weight	Water Temp.	Contents (ml)
49	253.49	553.36	24	300.682
50	252.49	551.54	24	299.859
51	255.94	554.6	24	299.468
52	252.33	552.81	24	301.293
53	252.18	553.91	24	302.547
54	247.61	549.52	24	302.727
55	246.07	547.19	24	301.935
56	253.3	553.73	24	301.243
57	245.69	547.93	24	303.058
58	253.54	553.24	24	300.511
59	255.3	556.2	24	301.714
60	254.75	553.62	24	299.679
61	253.83	553.31	24	300.291
62	255.82	555.61	24	300.602
63	253.74	554.19	24	301.263
64	250.73	551.72	24	301.805
65	250.02	550.07	24	300.862
66	251.89	554.35	24	303.279
67	251.9	554.46	24	303.379
68	254.81	556.06	24	302.065
69	251.35	553.9	24	303.369
70	254.88	553.76	24	299.689
71	251.2	553.01	24	302.627
72	256.79	555.36	24	299.378

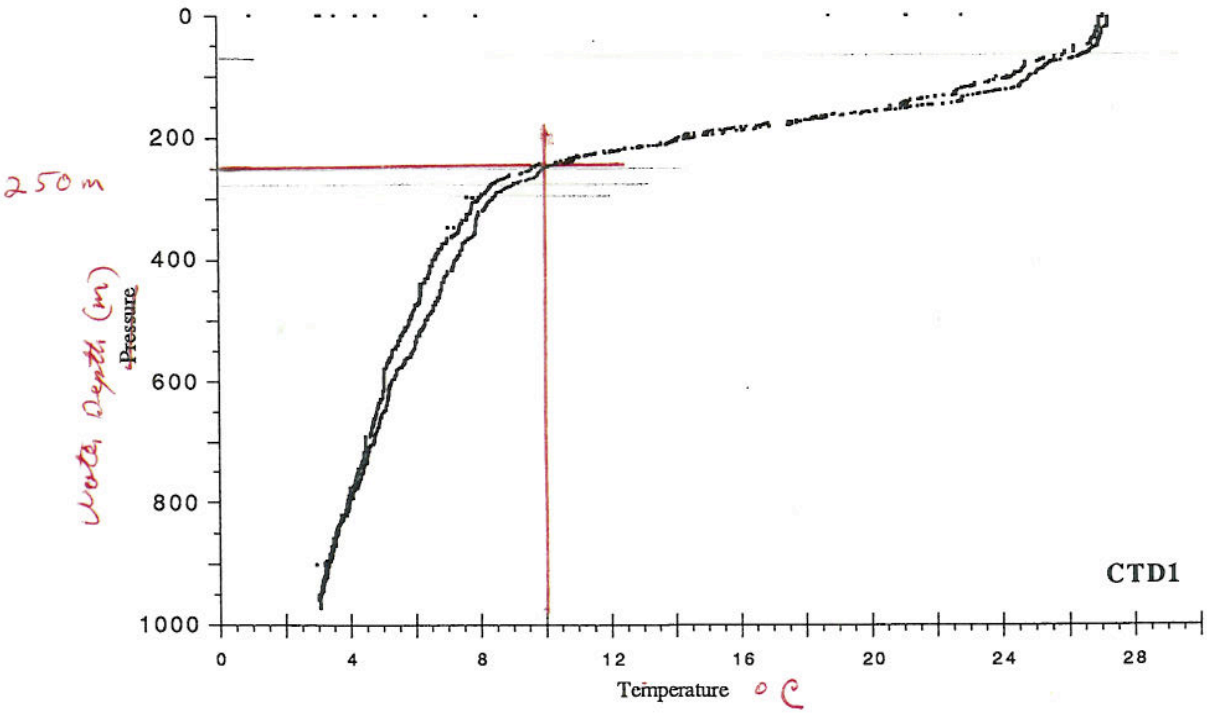
DENSITY OF WATER

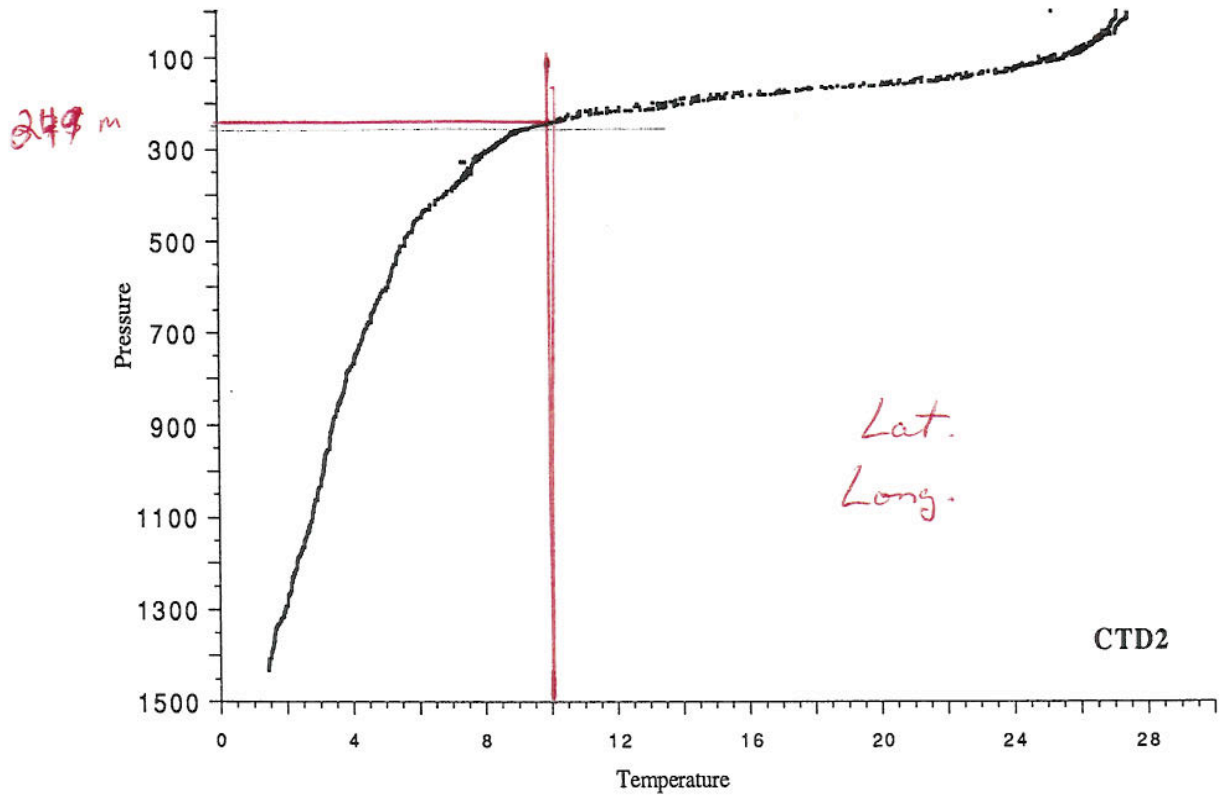
The temperature of maximum density for pure water, free from air = 3.98C (277.13K)

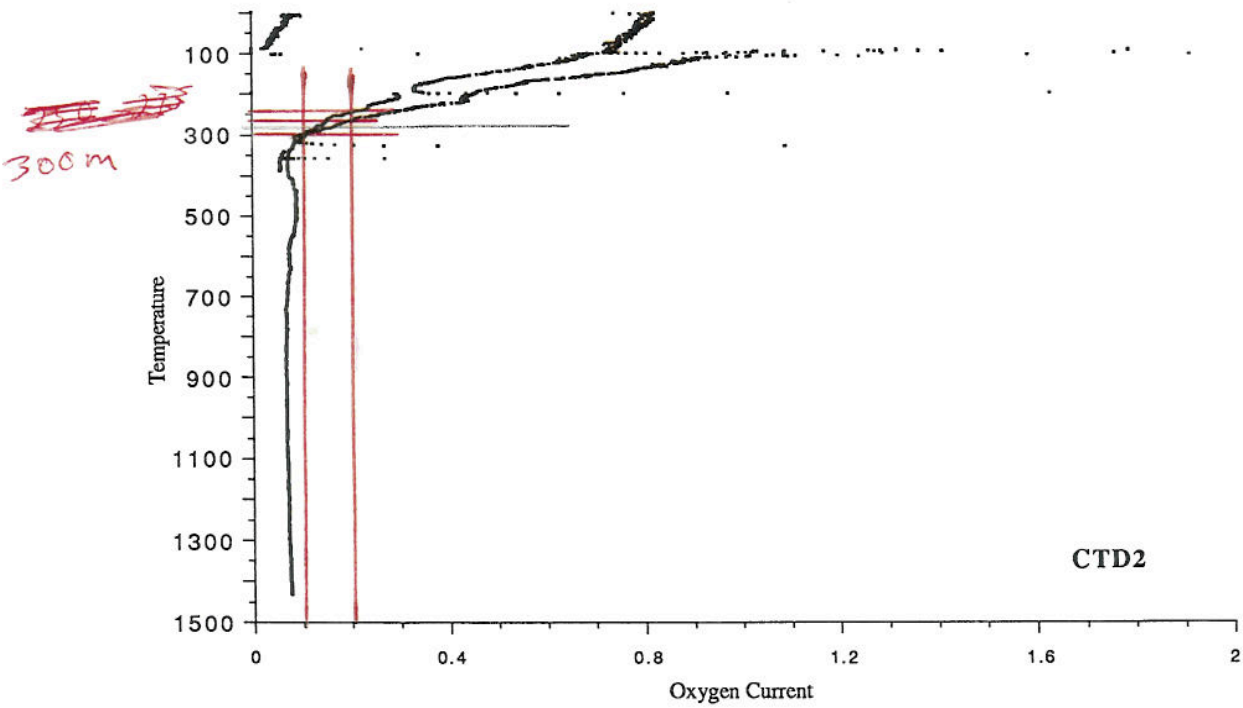
t, °C	d, gm/ml
0	0.99987
3.98	1.00000
5	0.99999
10	0.99973
15	0.99913
18	0.99862
20	0.99823
25	0.99707
30	0.99567
35	0.99406
38	0.99299

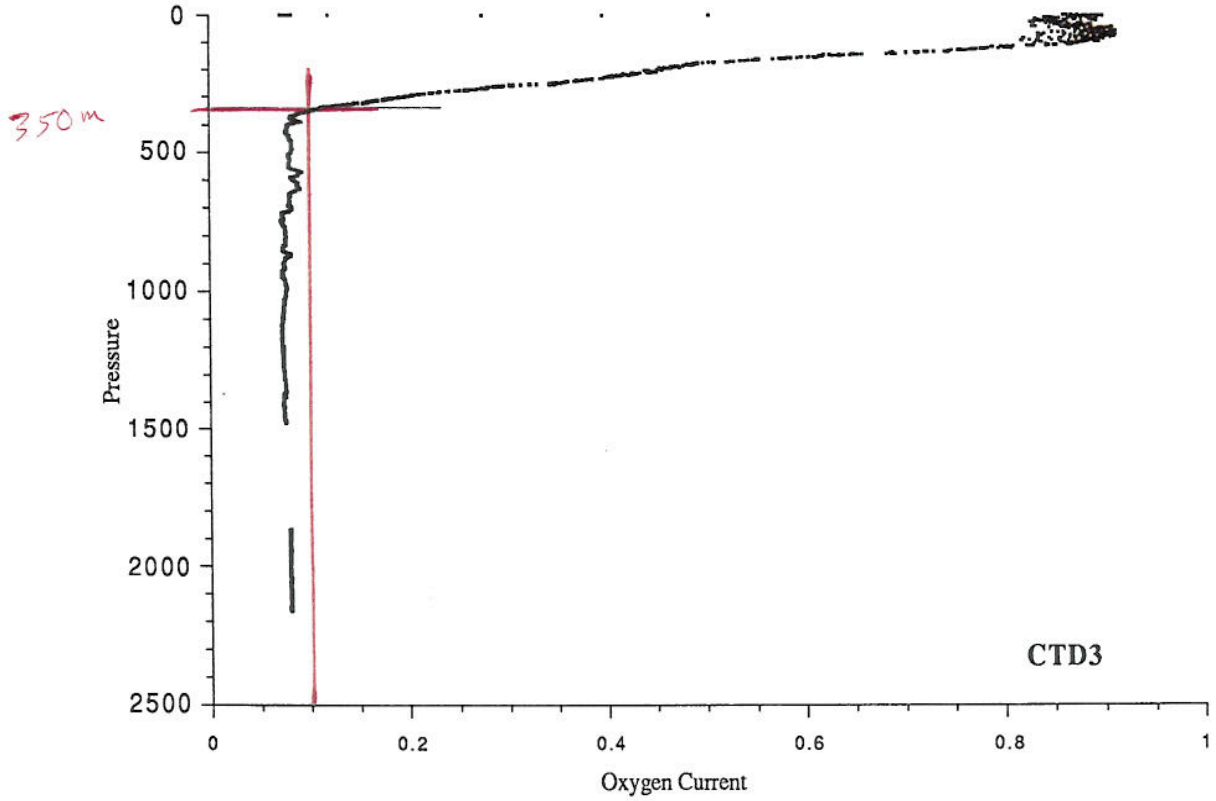
t, °C	d, gm/ml
40	0.99224
45	0.99025
50	0.98807
55	0.98573
60	0.98324
65	0.98059
70	0.97781
75	0.97489
80	0.97183
85	0.96865
90	0.96534
95	0.96192
100	0.95838

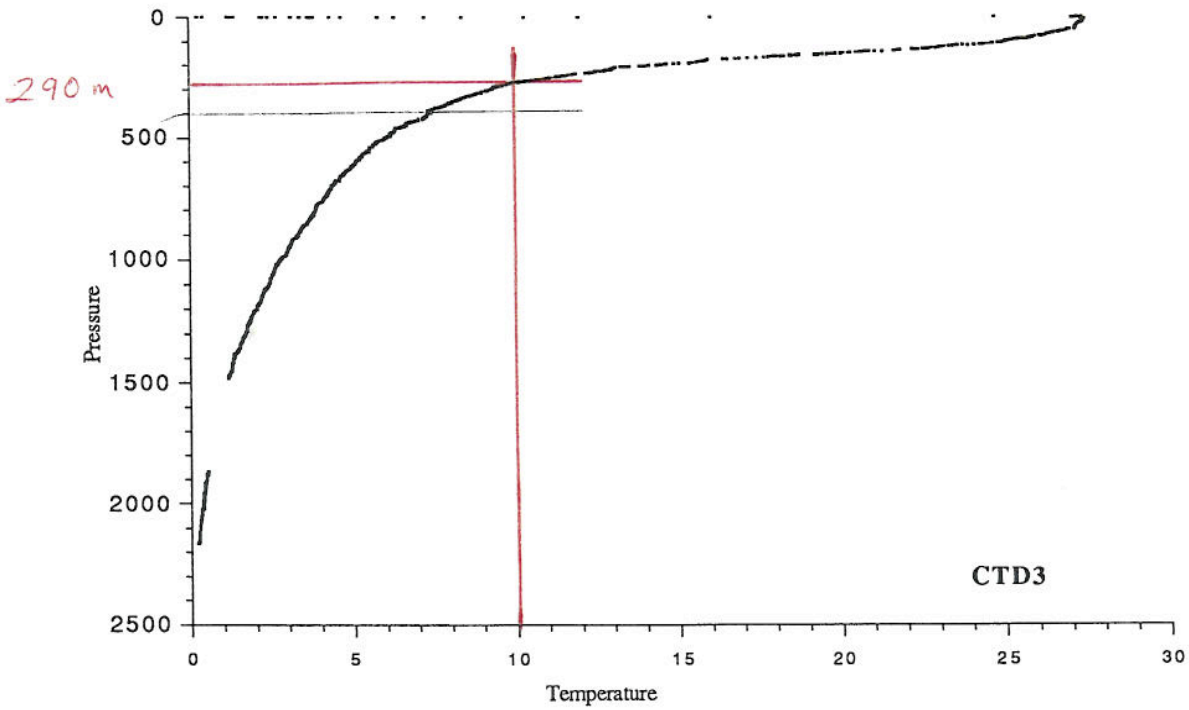

300-330m
water Depth (m)
Pressure
Lat.
Long.
CTD1
Oxygen ~~Current~~ Content (μl/l)

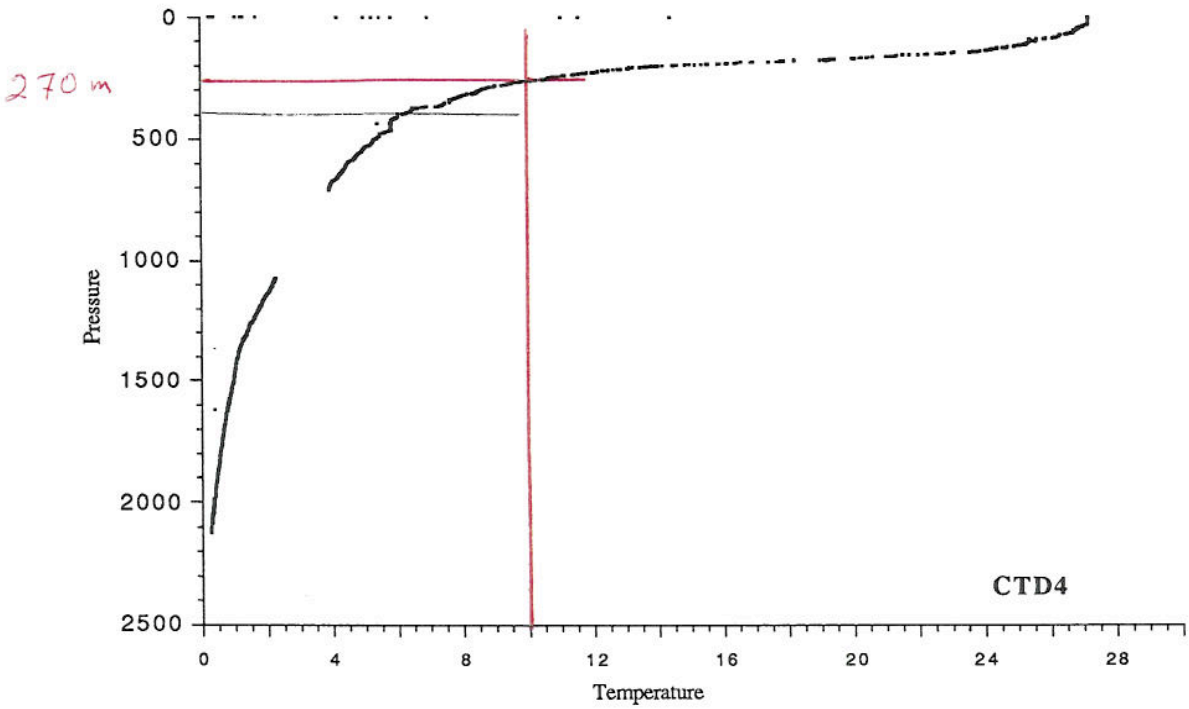

250m
water Depth (m)
Pressure
CTD1
Temperature °C

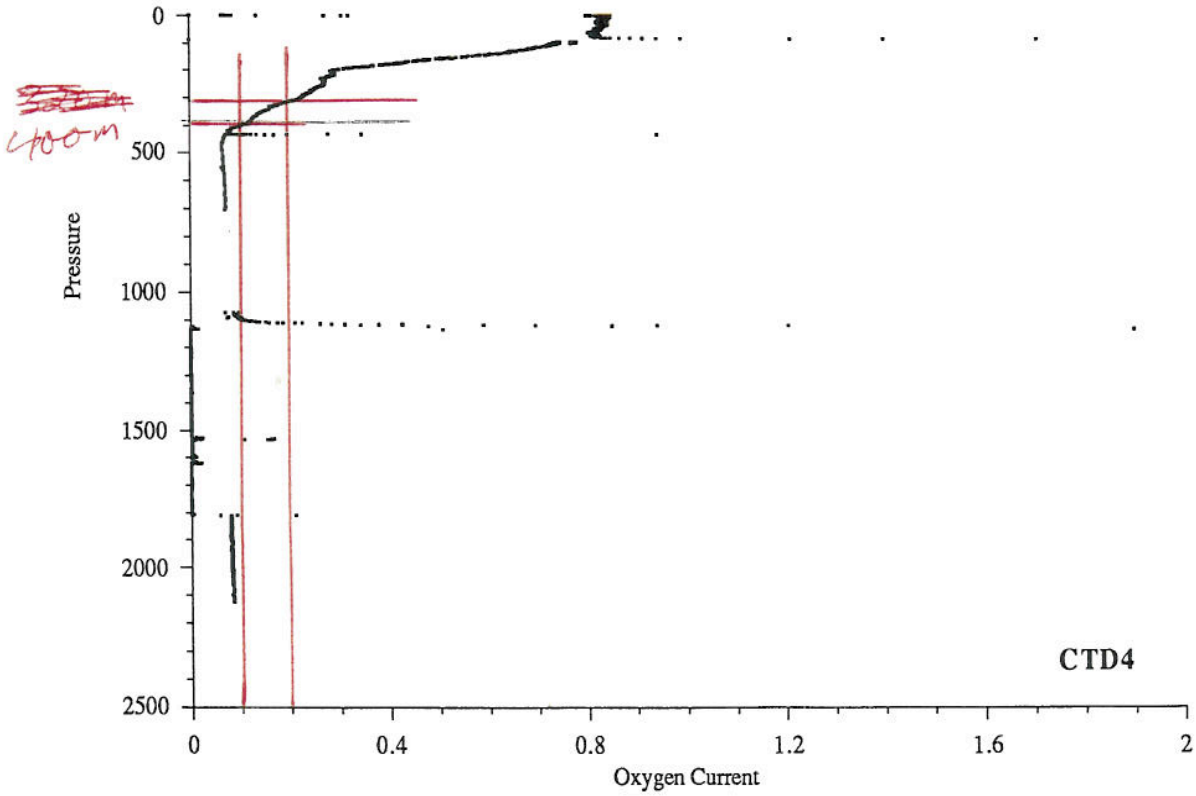

249 m
Pressure
100
300
500
700
900
1100
1300
1500
0
4
8
12
16
20
24
28
Temperature
Lat.
Long.
CTD2

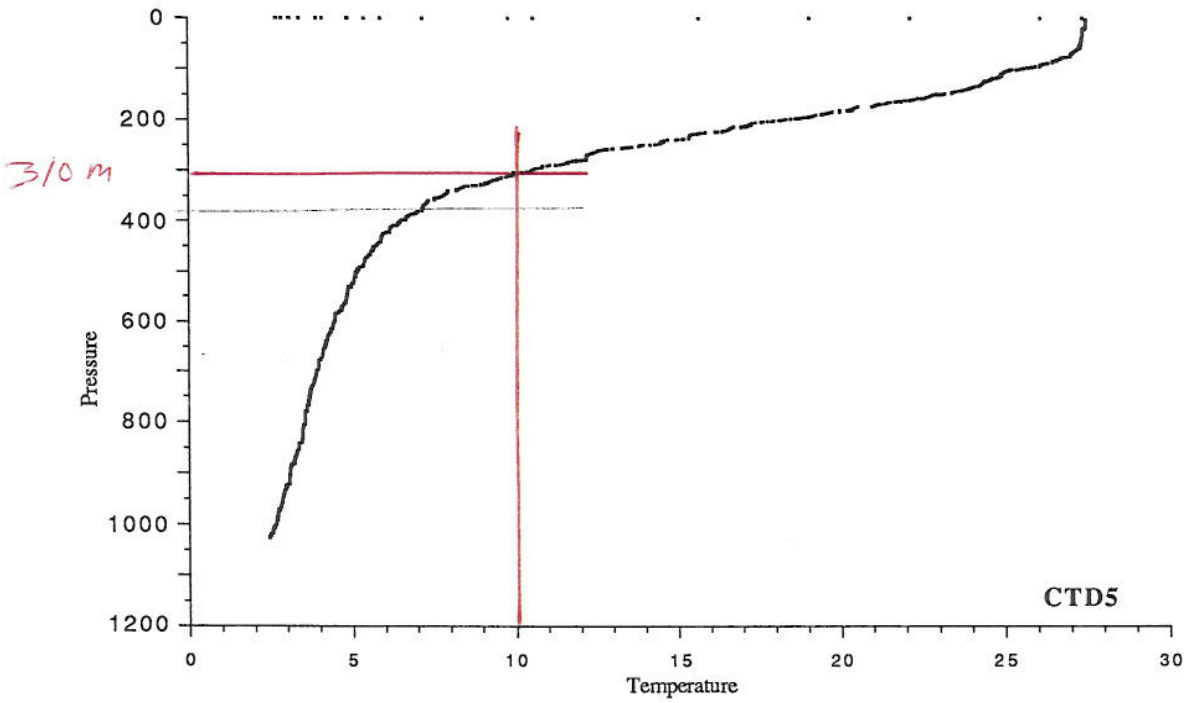

300m
Temperature
100
300
500
700
900
1100
1300
1500
0
0.4
0.8
1.2
1.6
2
Oxygen Current
CTD2

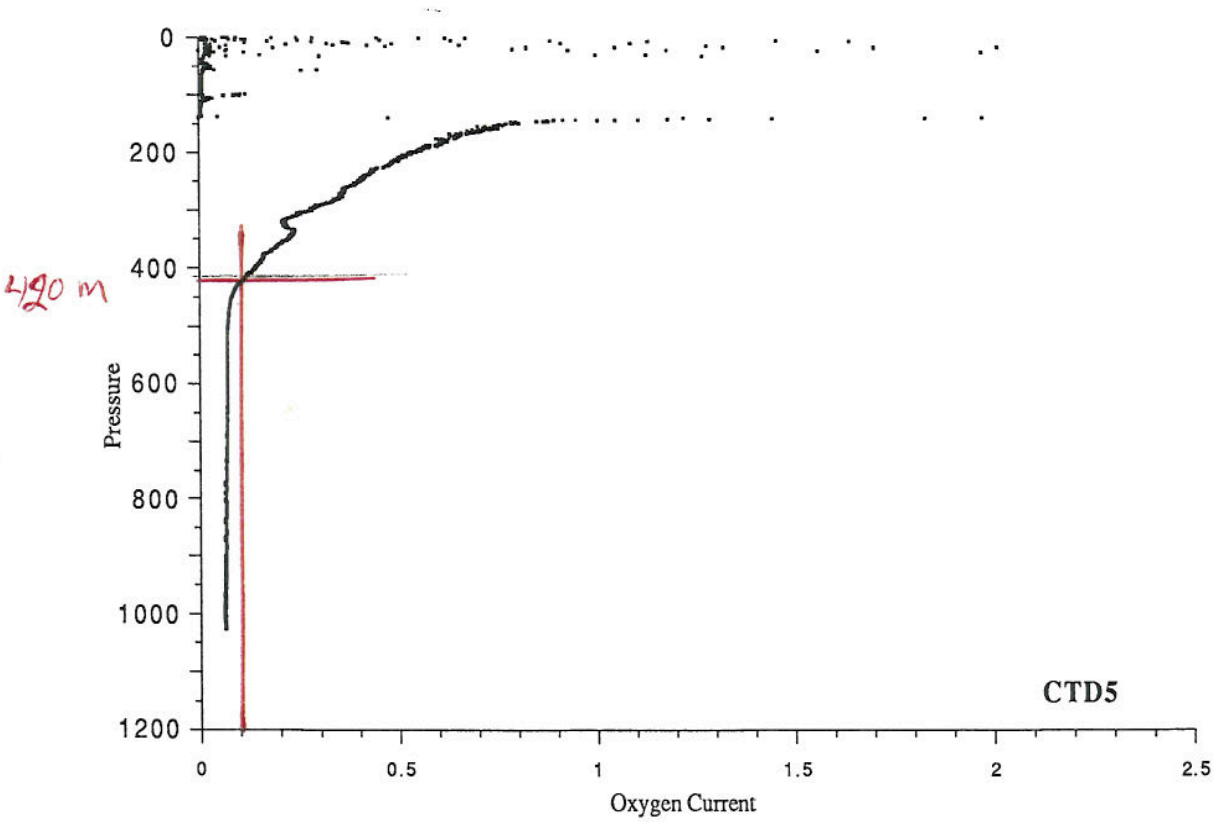

350 m
0
500
1000
1500
2000
2500
Pressure
CTD3
0
0.2
0.4
0.6
0.8
1
Oxygen Current

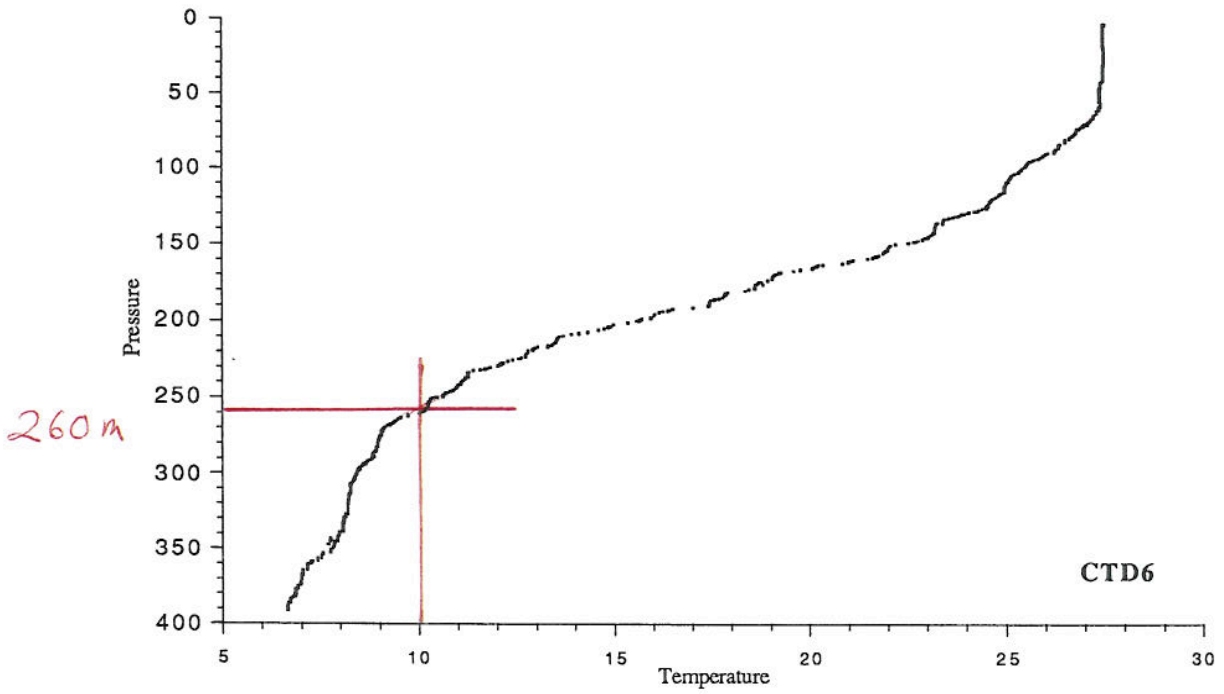

290 m
0
500
1000
1500
2000
2500
Pressure
CTD3
0
5
10
15
20
25
30
Temperature

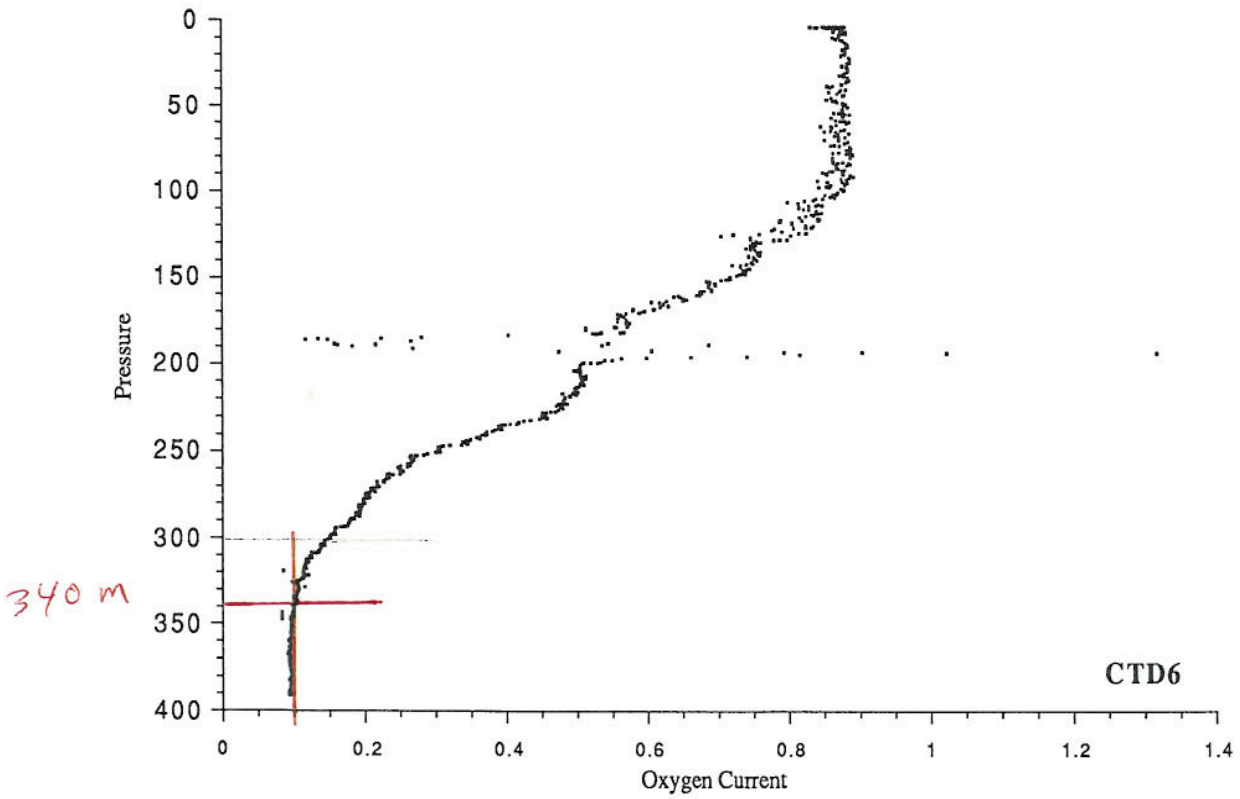

270 m
Pressure
0
500
1000
1500
2000
2500
0
4
8
12
16
20
24
28
Temperature
CTD4

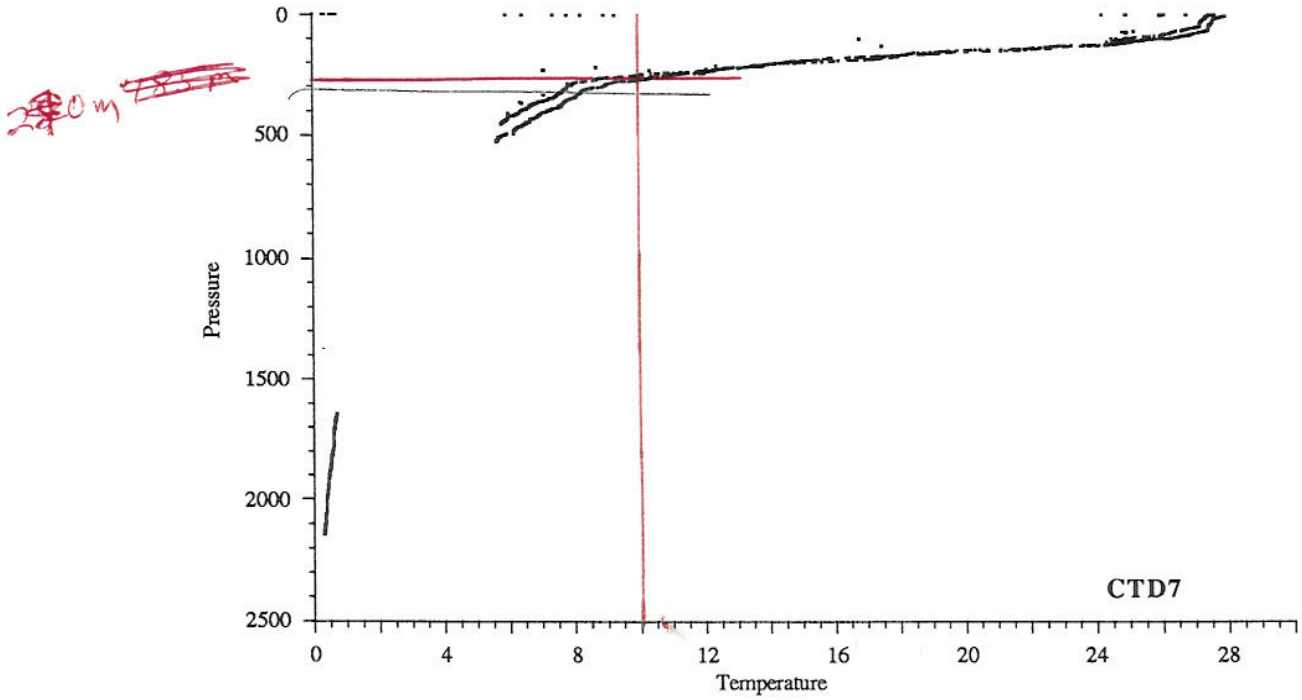

400 m
Pressure
0
500
1000
1500
2000
2500
0
0.4
0.8
1.2
1.6
2
Oxygen Current
CTD4

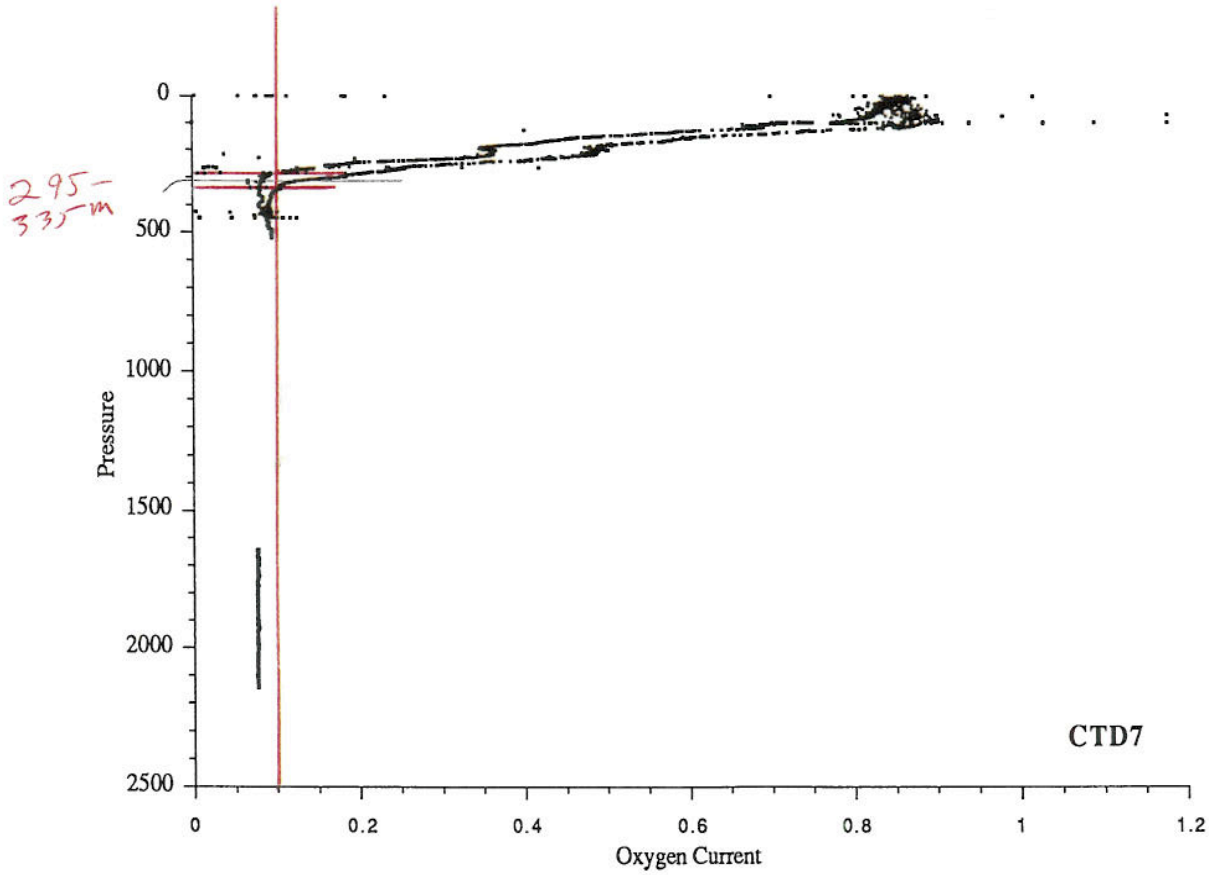

310 m
Pressure
Temperature
CTD5
0
200
400
600
800
1000
1200
0
5
10
15
20
25
30

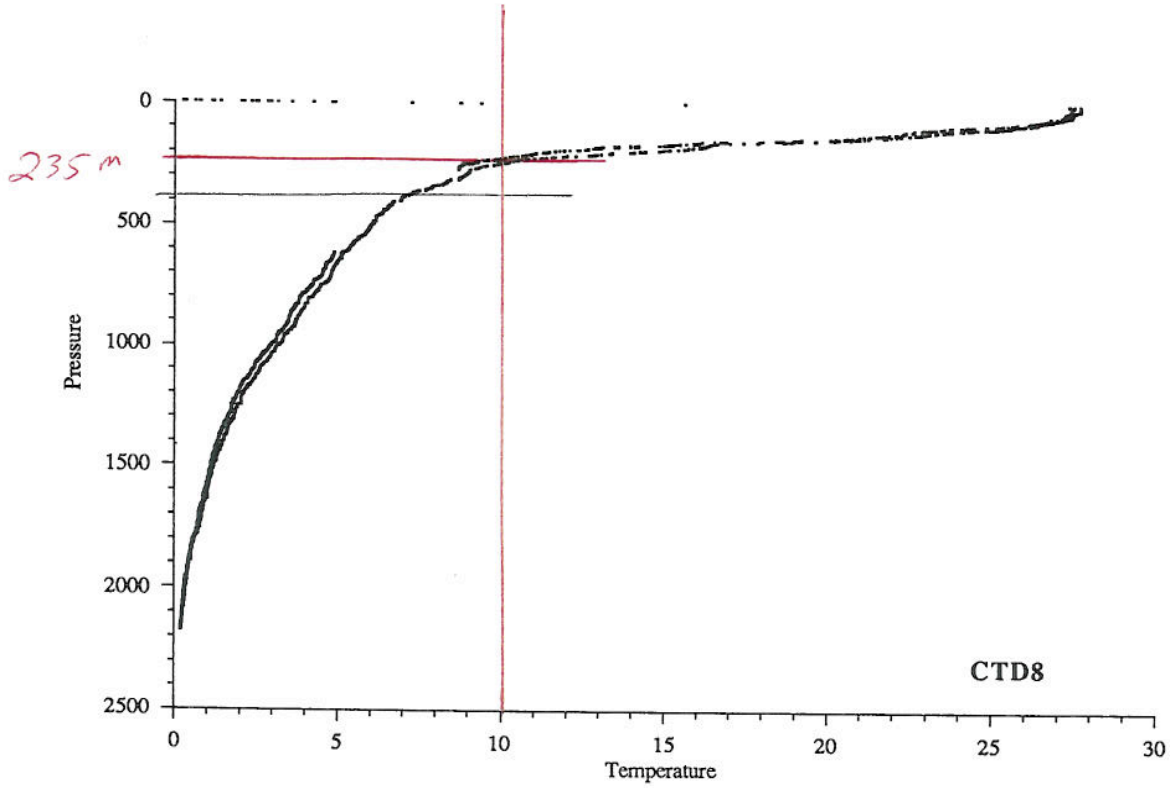

420 m
Pressure
Oxygen Current
CTD5
0
200
400
600
800
1000
1200
0
0.5
1
1.5
2
2.5

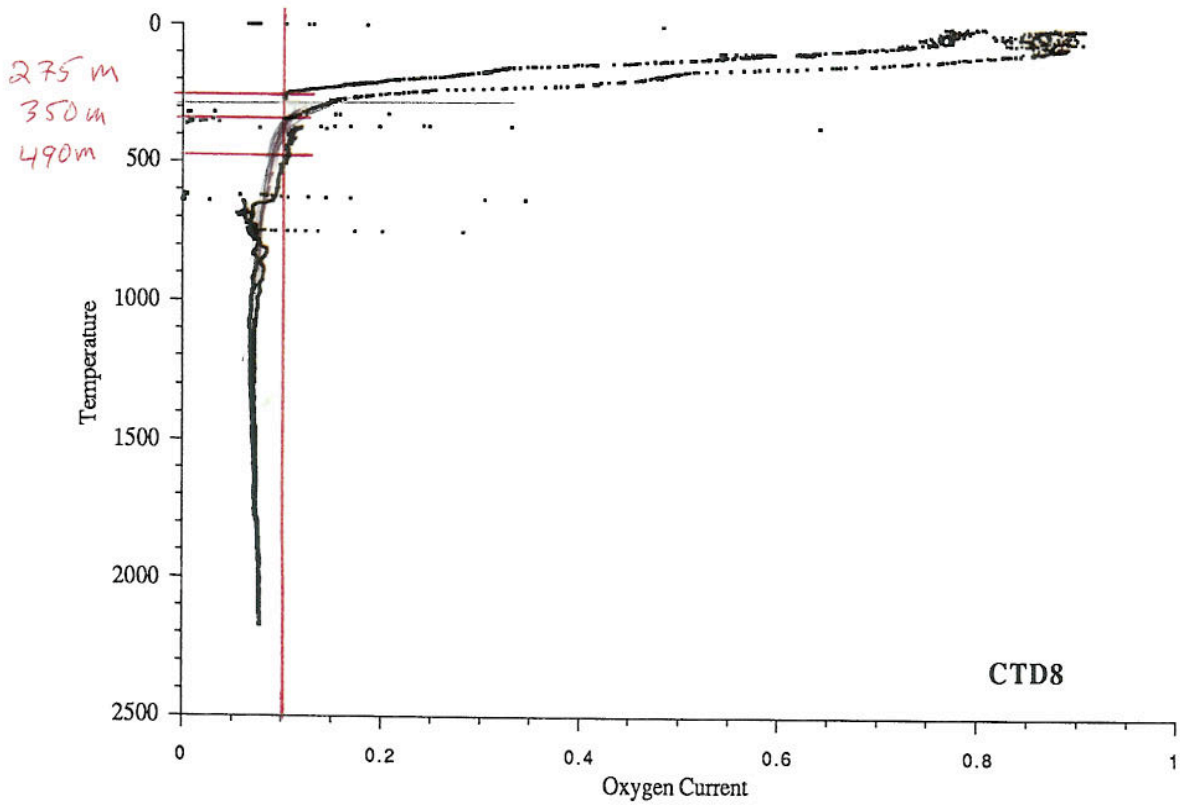

260 m
Pressure
Temperature
CTD6
0
50
100
150
200
250
300
350
400
5
10
15
20
25
30

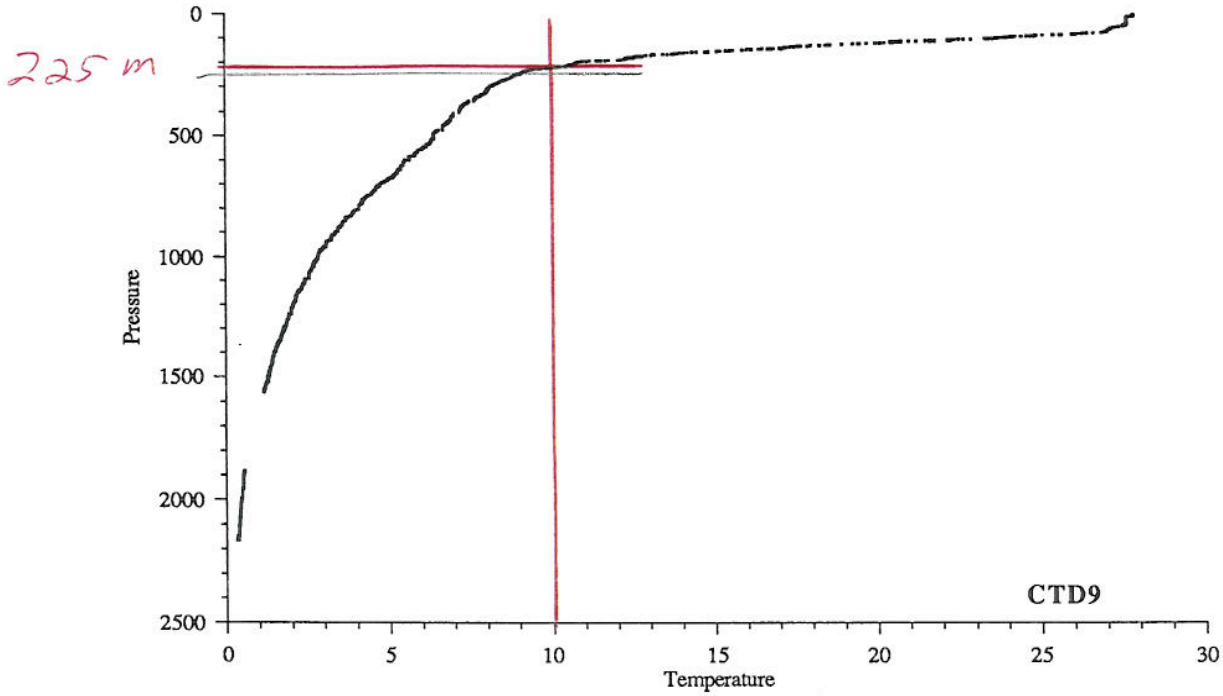

340 m
Pressure
Oxygen Current
CTD6
0
50
100
150
200
250
300
350
400
0
0.2
0.4
0.6
0.8
1
1.2
1.4

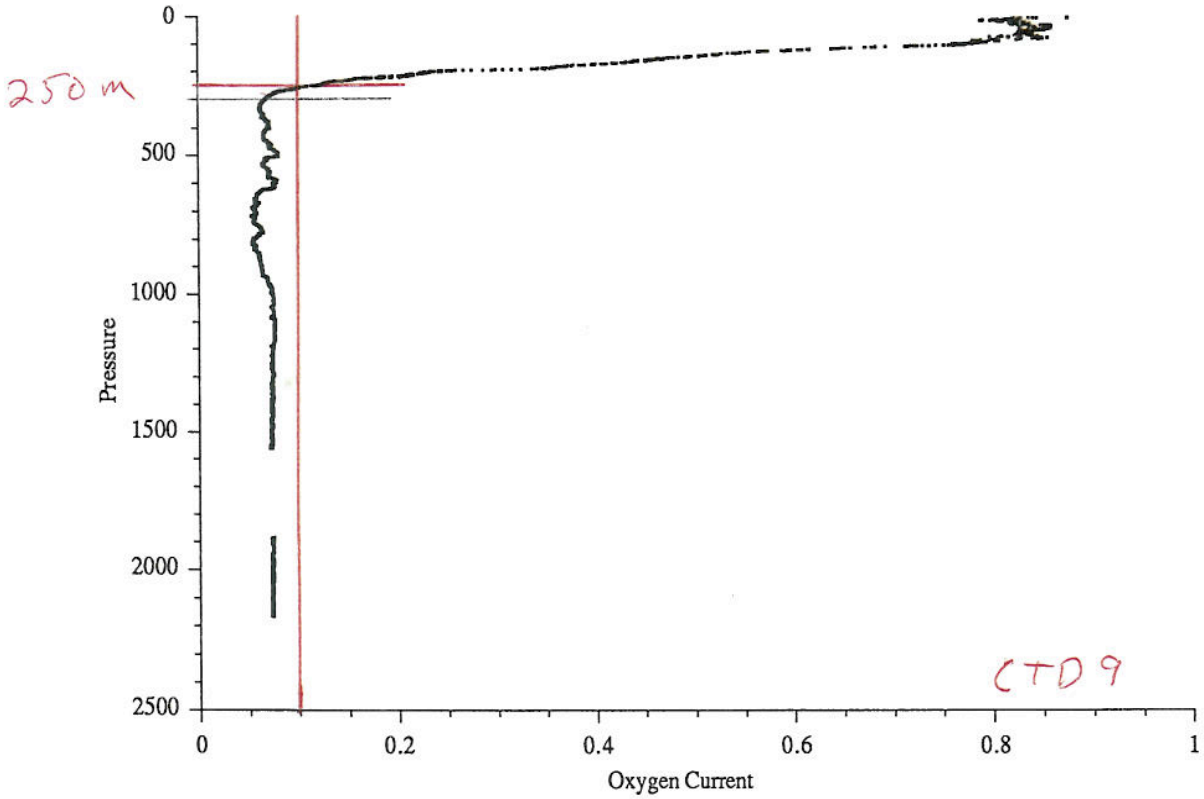

0
500
1000
1500
2000
2500
Pressure
0
4
8
12
16
20
24
28
Temperature
CTD7

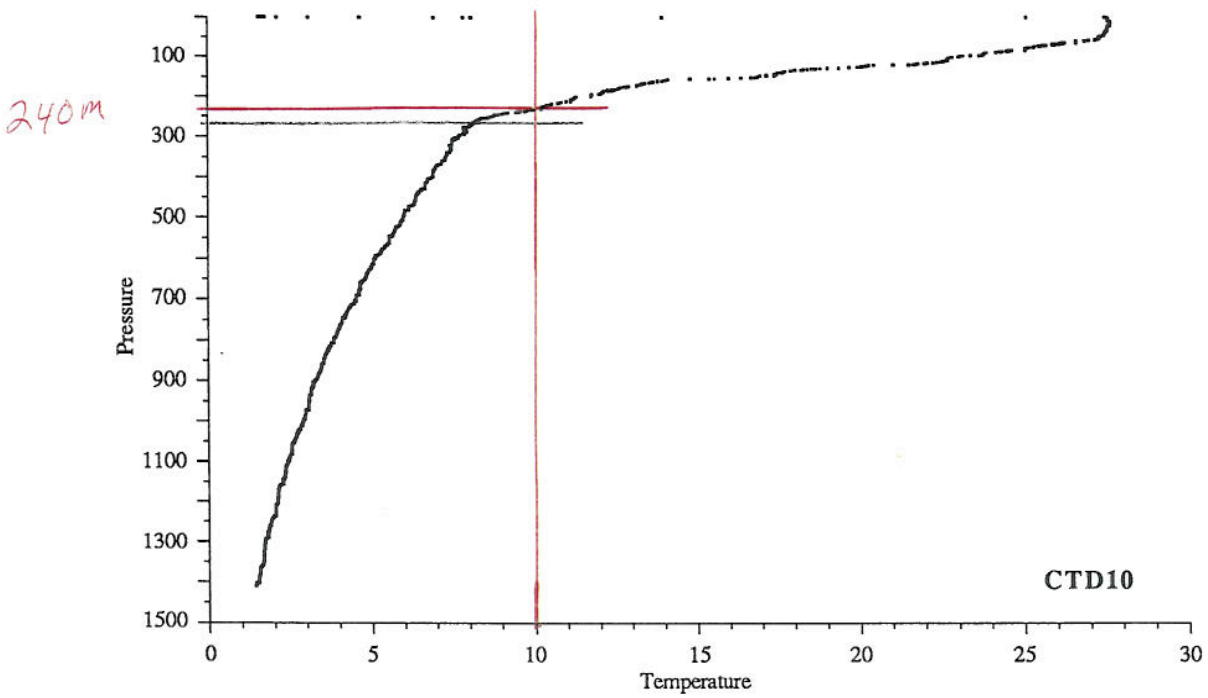

295-
335m
0
500
1000
1500
2000
2500
Pressure
0
0.2
0.4
0.6
0.8
1
1.2
Oxygen Current
CTD7

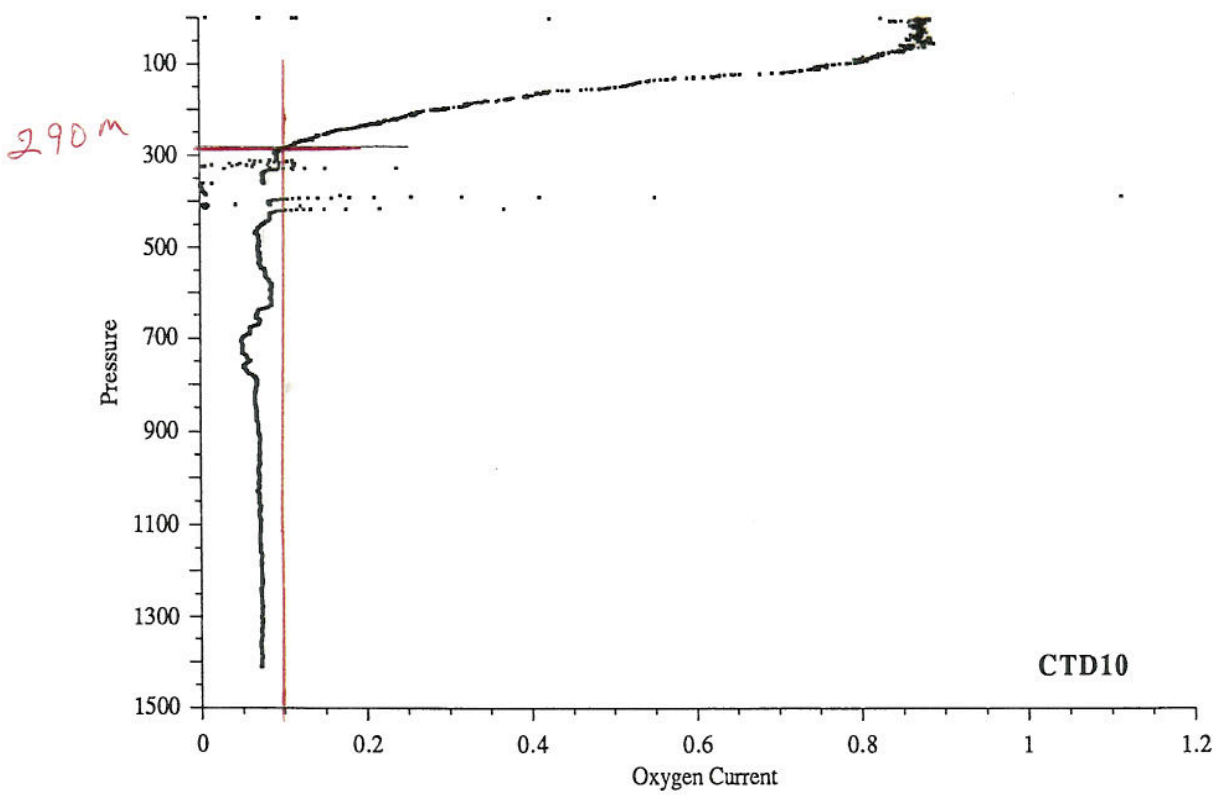

235 m
Pressure
Temperature
CTD8
0
500
1000
1500
2000
2500
0
5
10
15
20
25
30

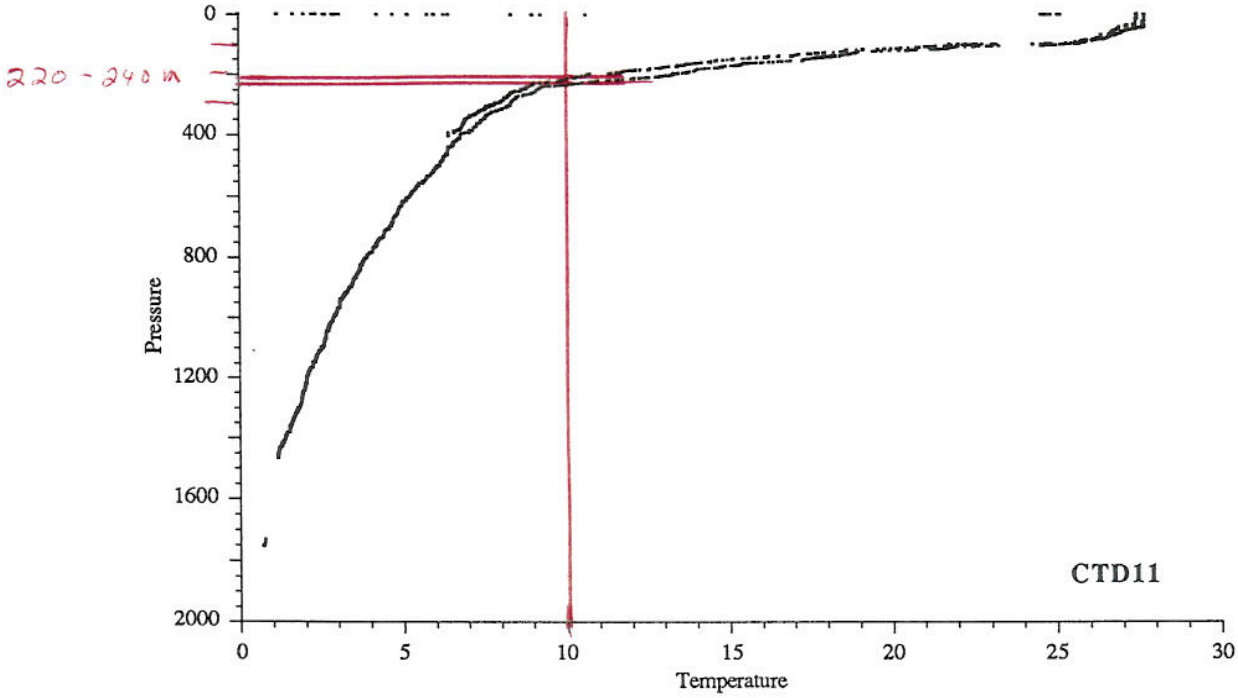

275 m
350 m
490 m
Temperature
Oxygen Current
CTD8
0
500
1000
1500
2000
2500
0
0.2
0.4
0.6
0.8
1

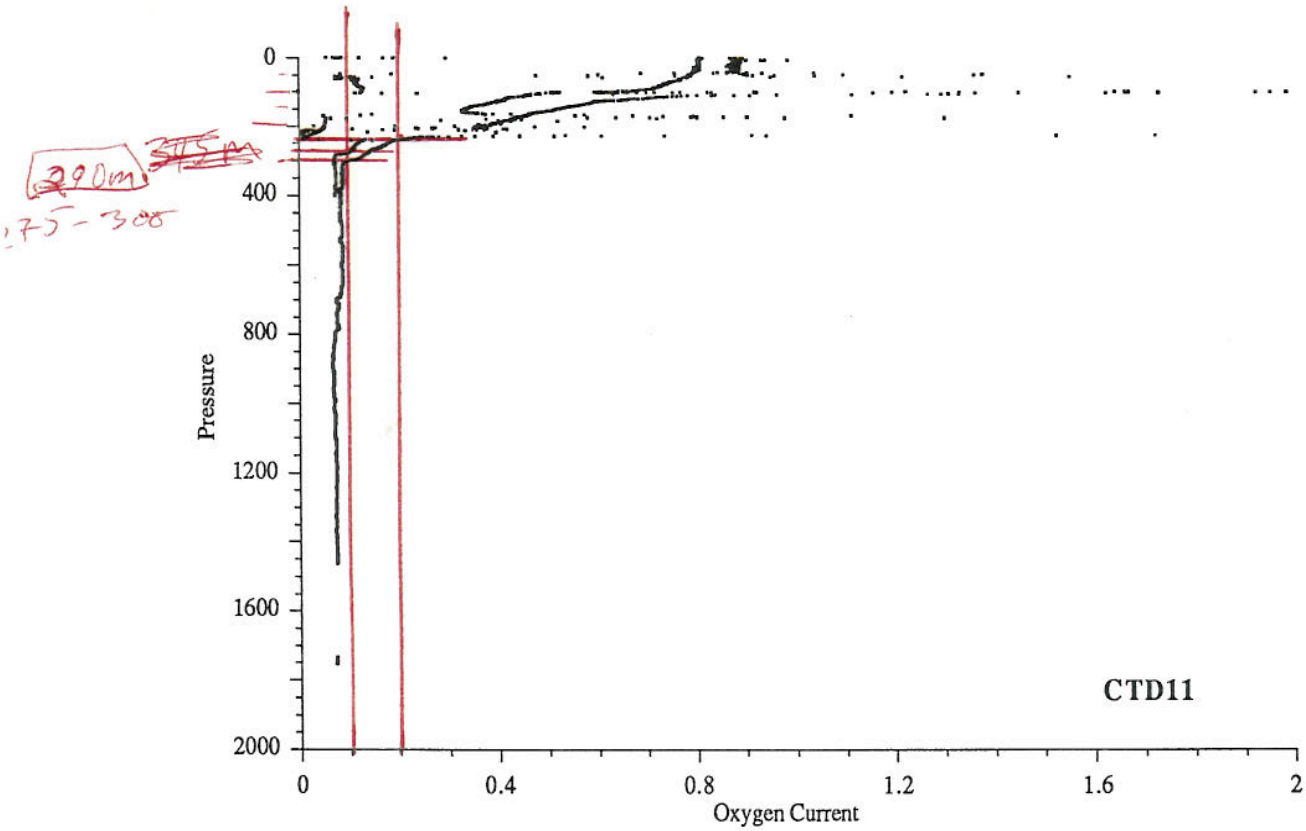

225 m
Pressure
0
500
1000
1500
2000
2500
CTD9
0
5
10
15
20
25
30
Temperature

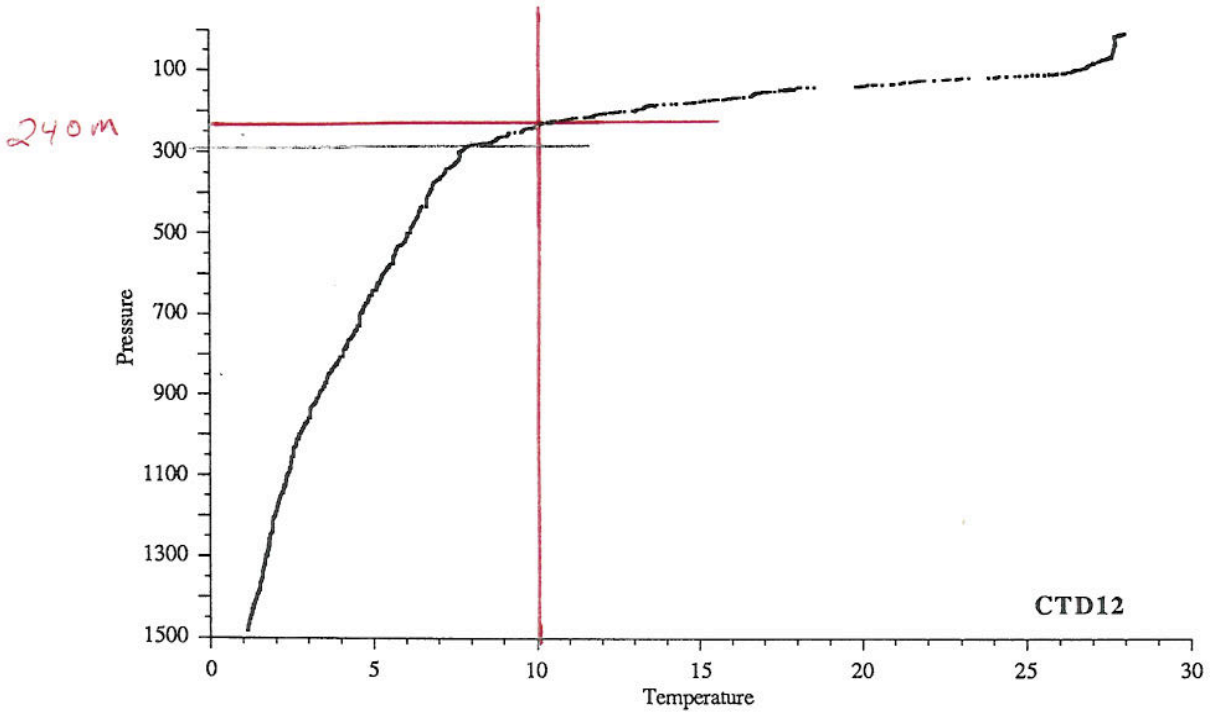

250 m
Pressure
0
500
1000
1500
2000
2500
CTD 9
0
0.2
0.4
0.6
0.8
1
Oxygen Current

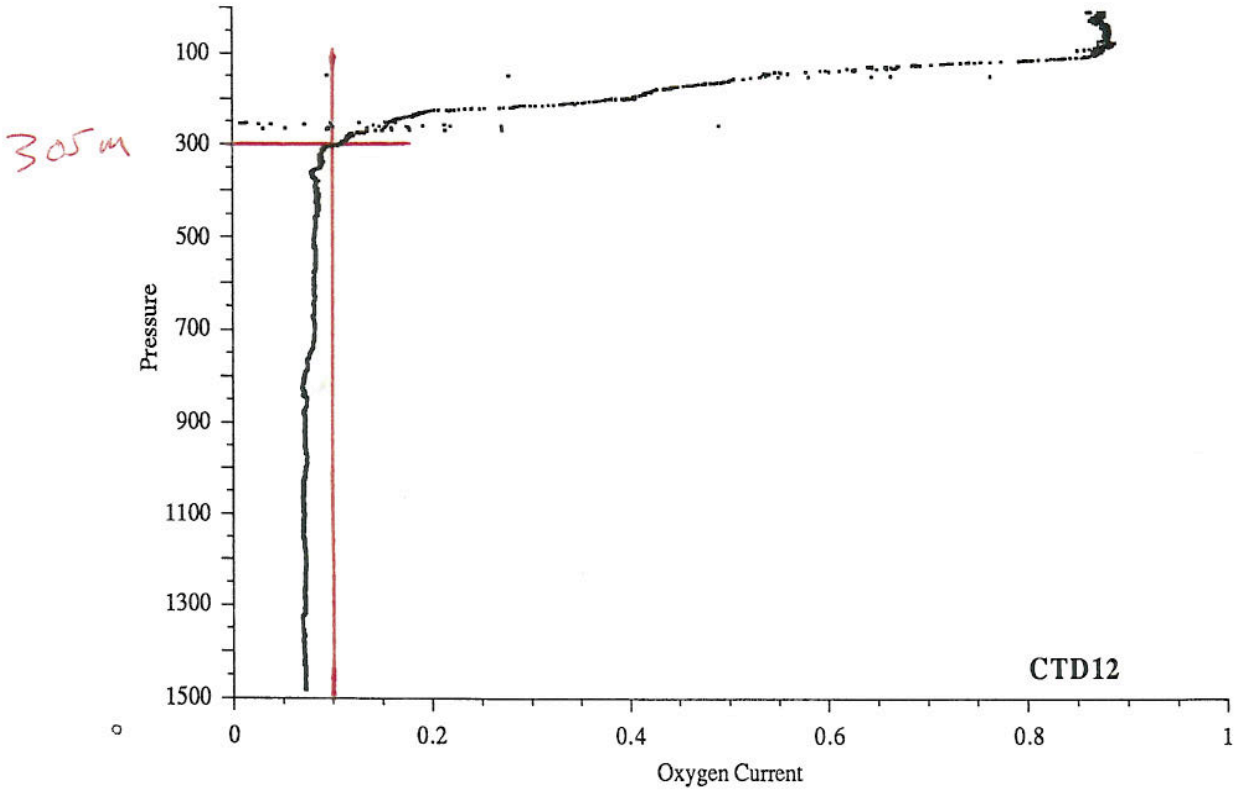

240m
Pressure
100
300
500
700
900
1100
1300
1500
0
5
10
15
20
25
30
Temperature
CTD10

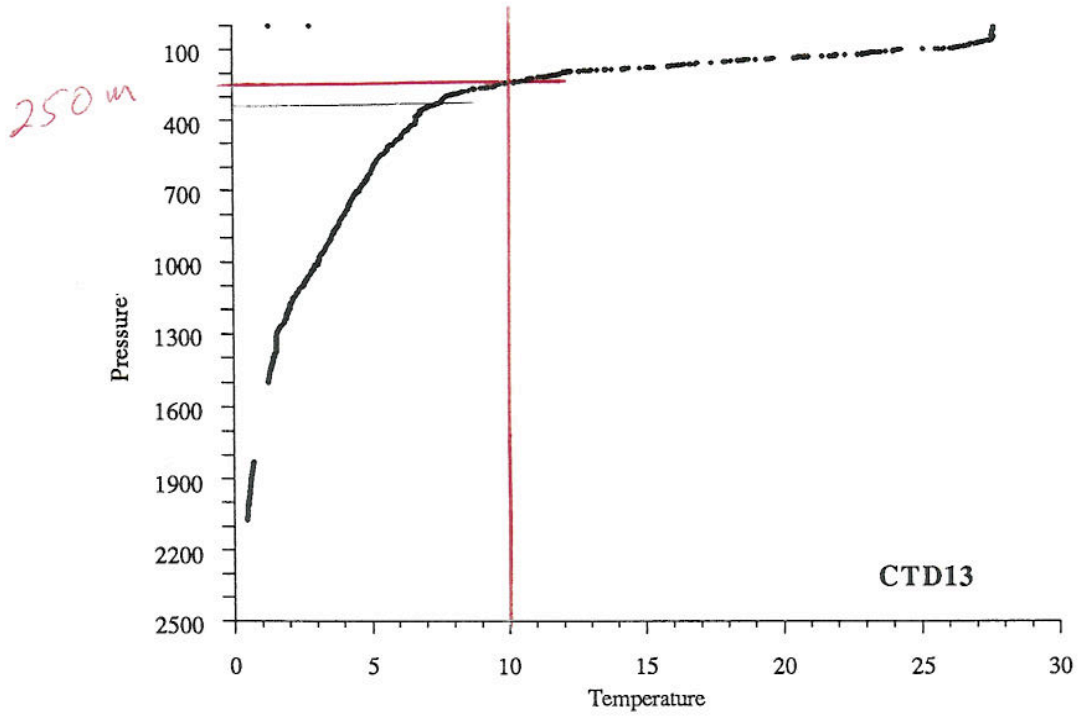

290m
Pressure
100
300
500
700
900
1100
1300
1500
0
0.2
0.4
0.6
0.8
1
1.2
Oxygen Current
CTD10

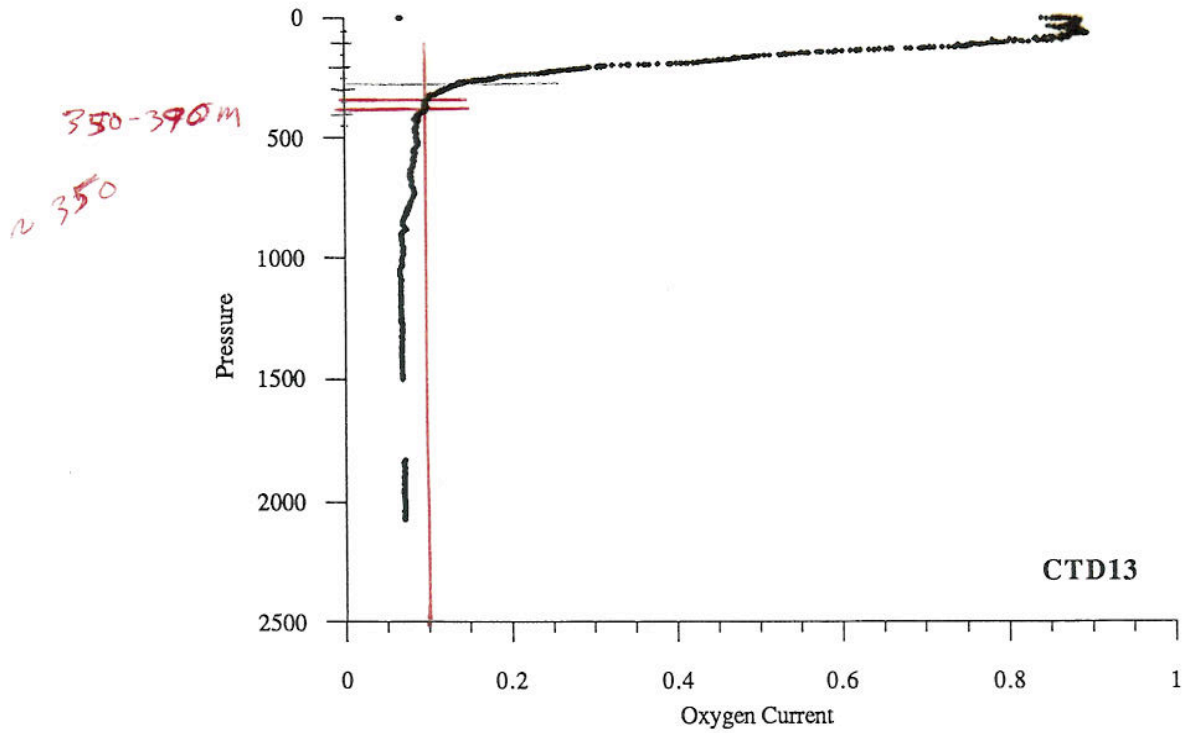

220 - 240 m
Pressure
Temperature
CTD11
0
400
800
1200
1600
2000
0
5
10
15
20
25
30

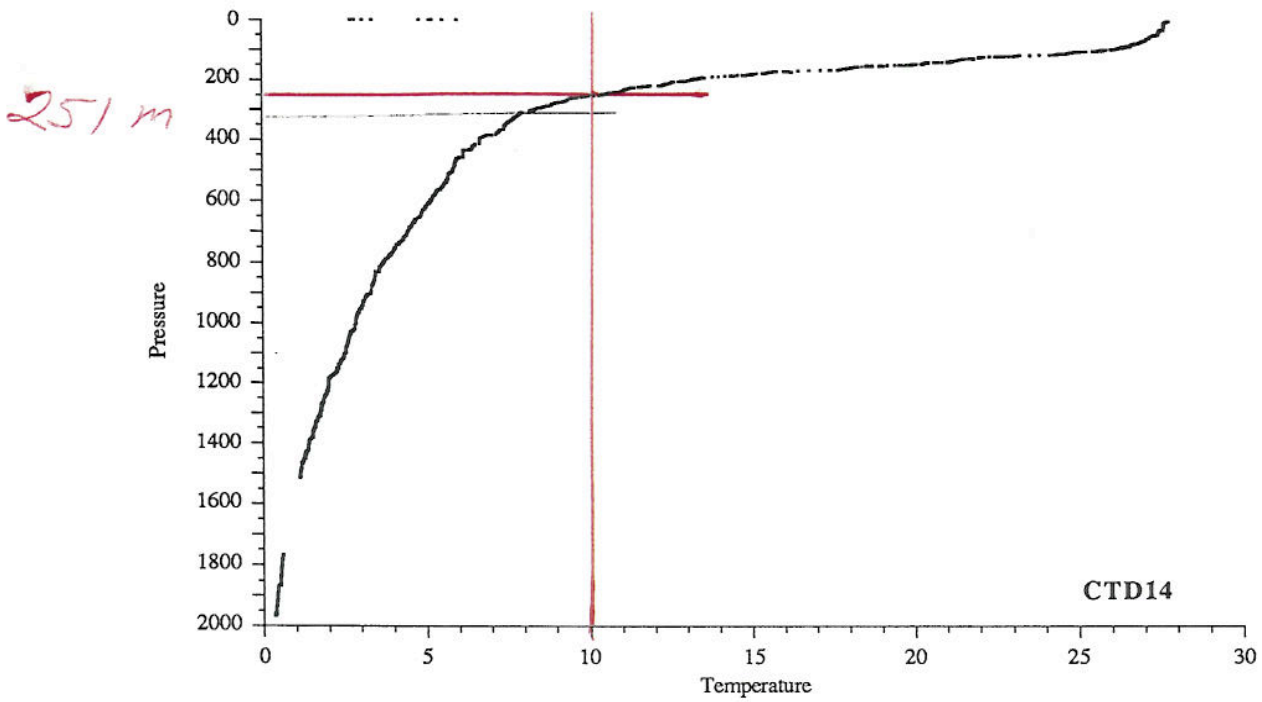

290m
~~375 m~~
275 - 300
Pressure
Oxygen Current
CTD11
0
400
800
1200
1600
2000
0
0.4
0.8
1.2
1.6
2

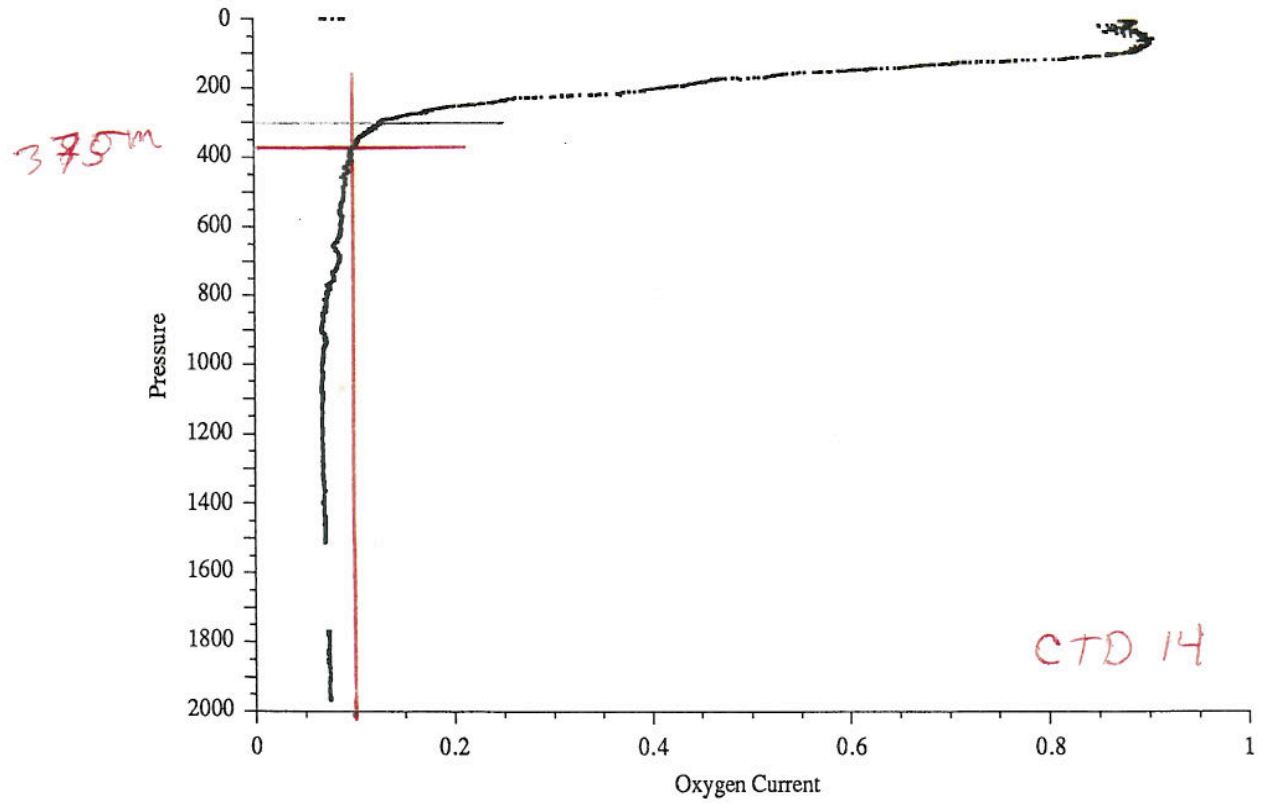

240m
Pressure
100
300
500
700
900
1100
1300
1500
0
5
10
15
20
25
30
Temperature
CTD12

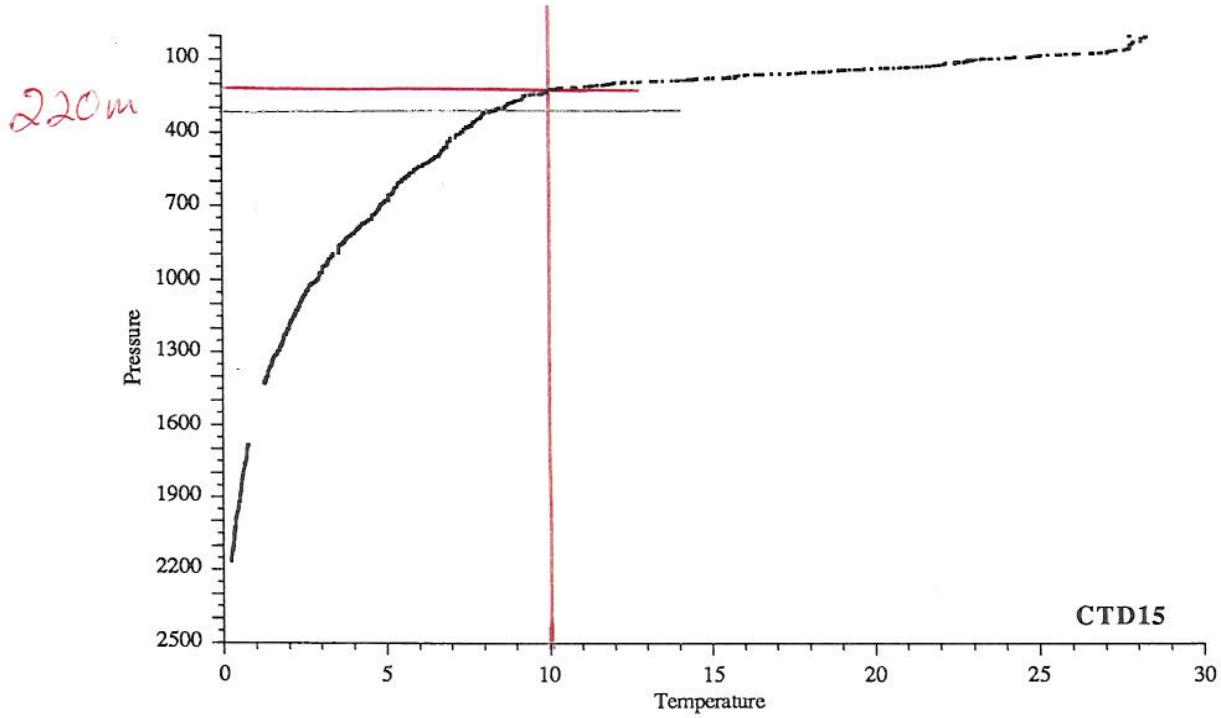

305m
Pressure
100
300
500
700
900
1100
1300
1500
0
0.2
0.4
0.6
0.8
1
Oxygen Current
CTD12

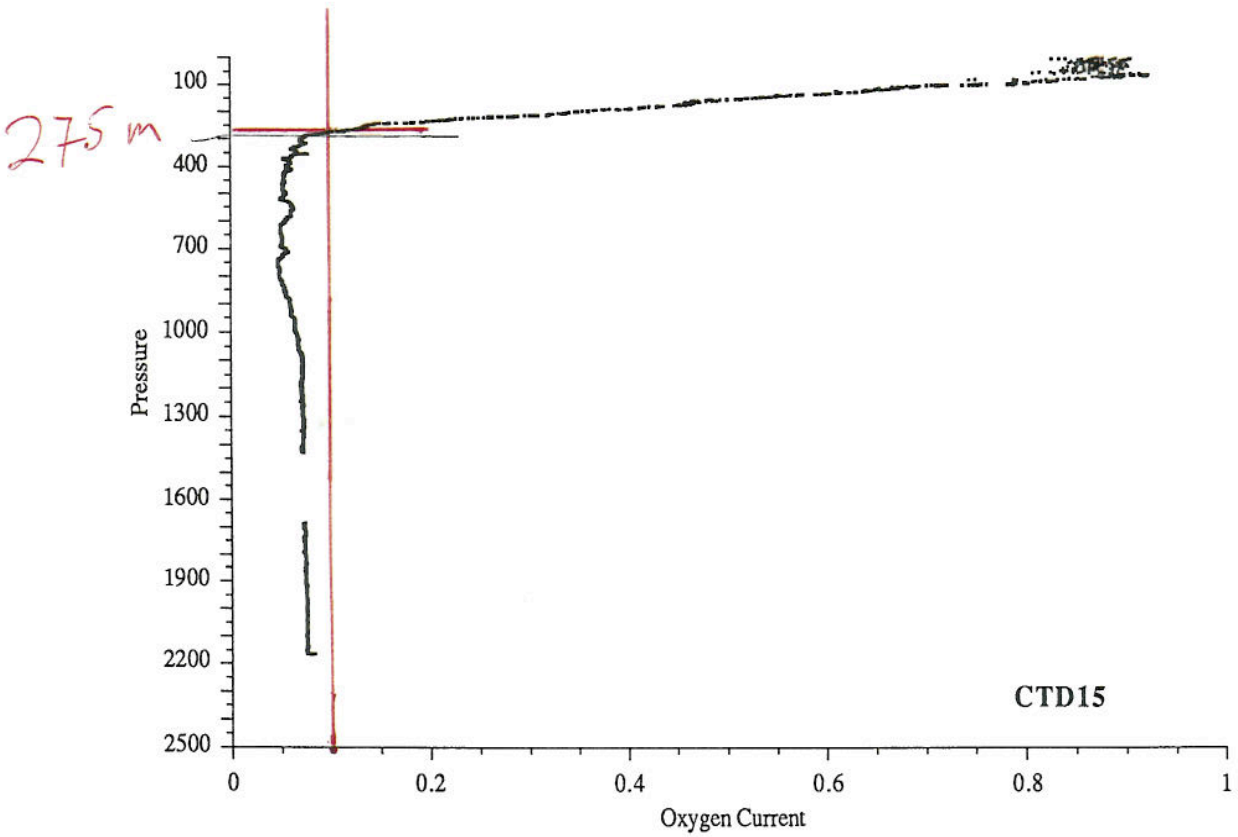

250 m
100
400
700
1000
1300
1600
1900
2200
2500
Pressure
0
5
10
15
20
25
30
Temperature
CTD13

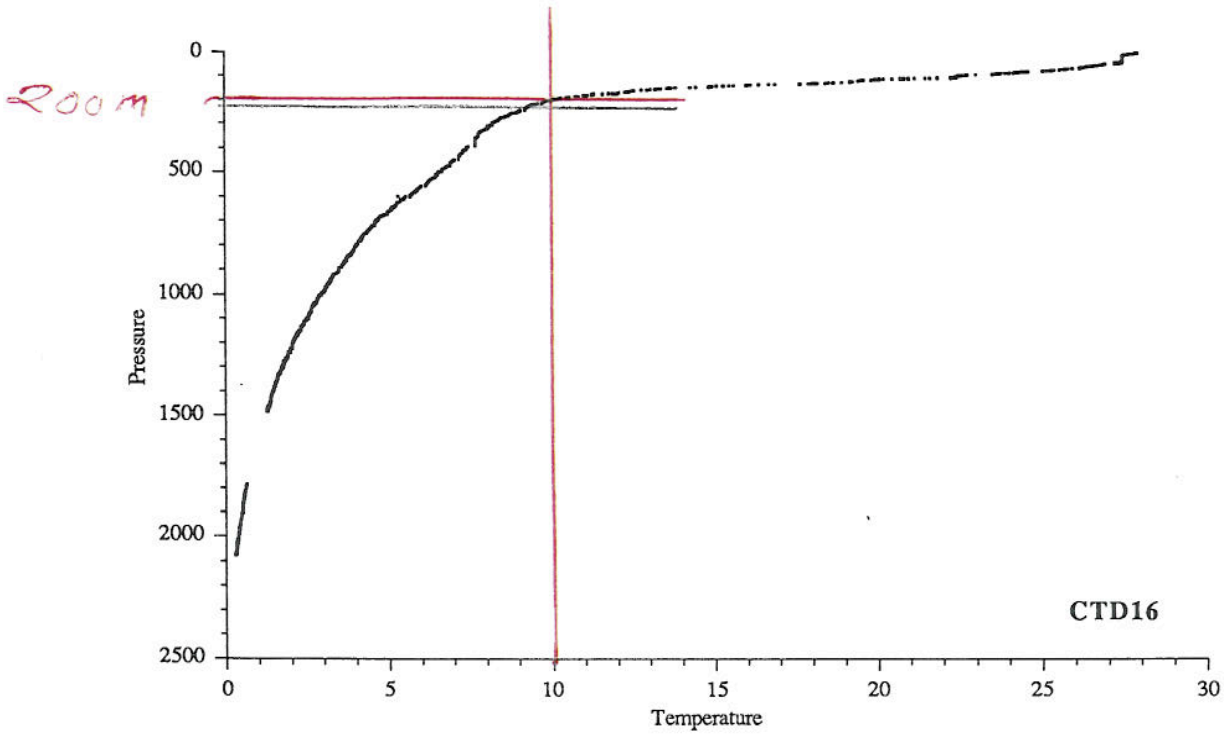

350-390 m
~ 350
0
500
1000
1500
2000
2500
Pressure
0
0.2
0.4
0.6
0.8
1
Oxygen Current
CTD13

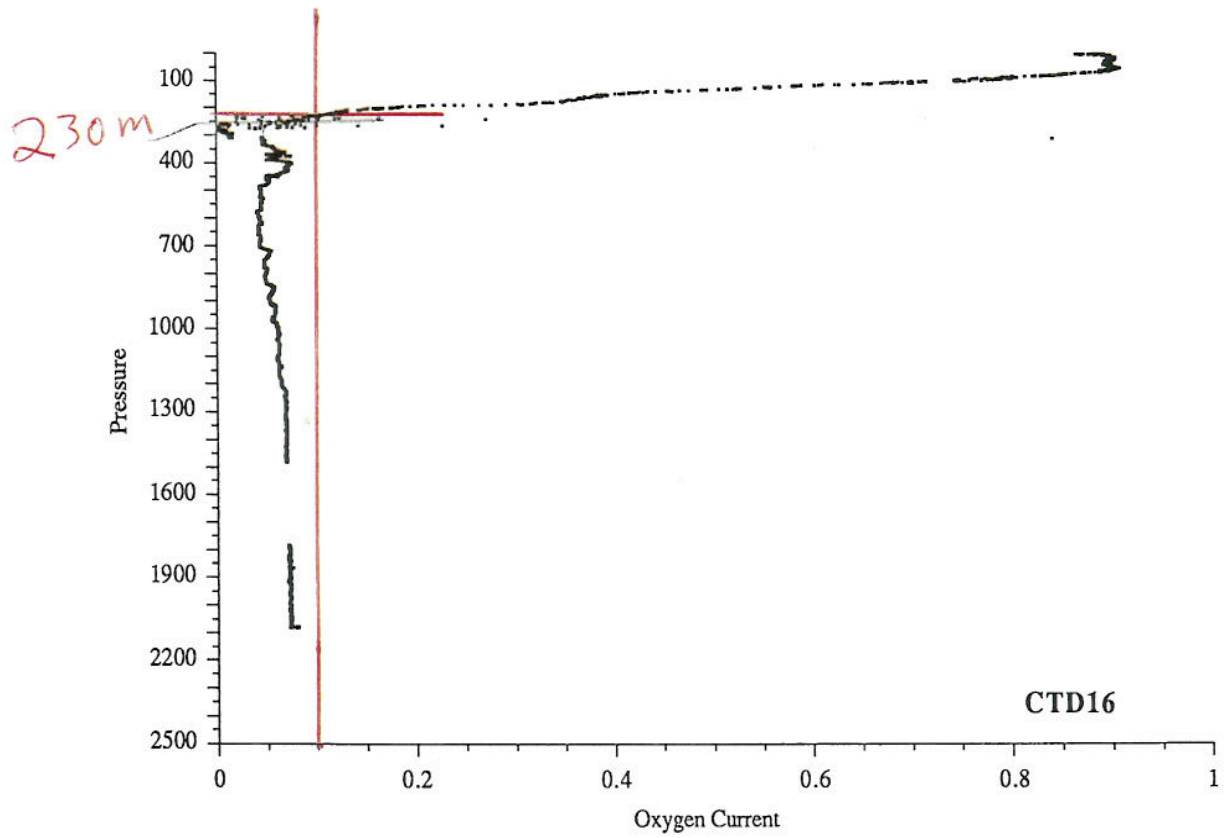

251 m
Pressure
Temperature
CTD14
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
5
10
15
20
25
30

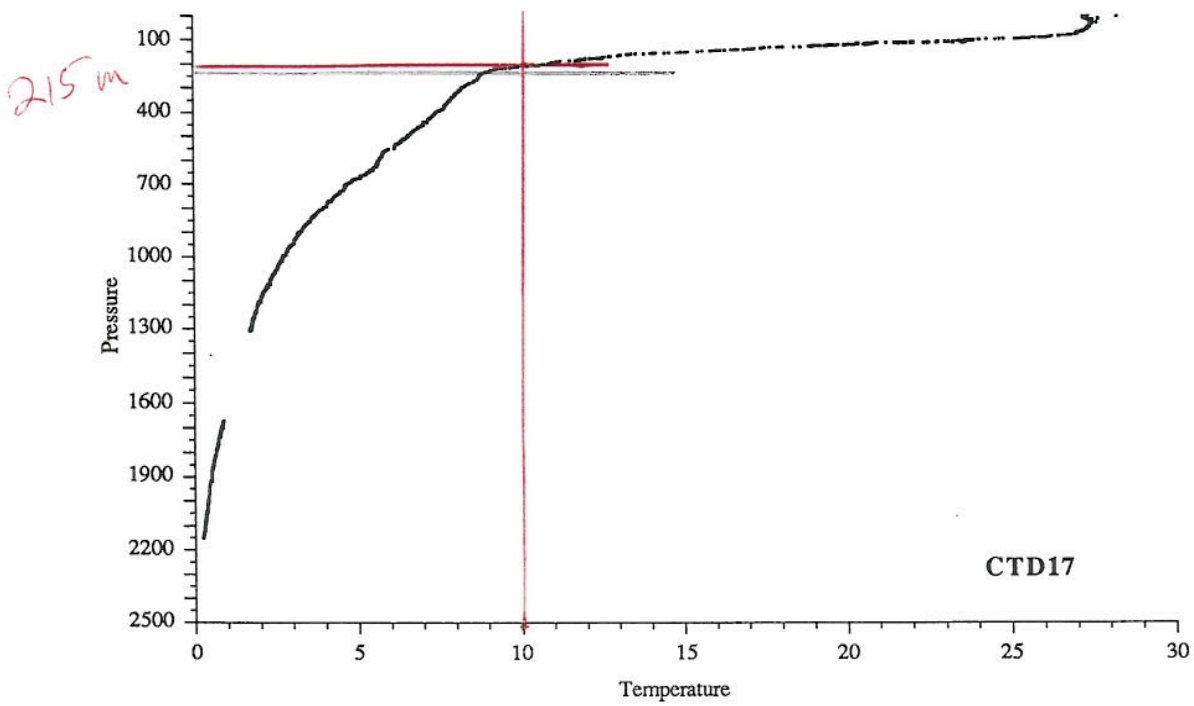

375m
Pressure
Oxygen Current
CTD 14
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
0.2
0.4
0.6
0.8
1

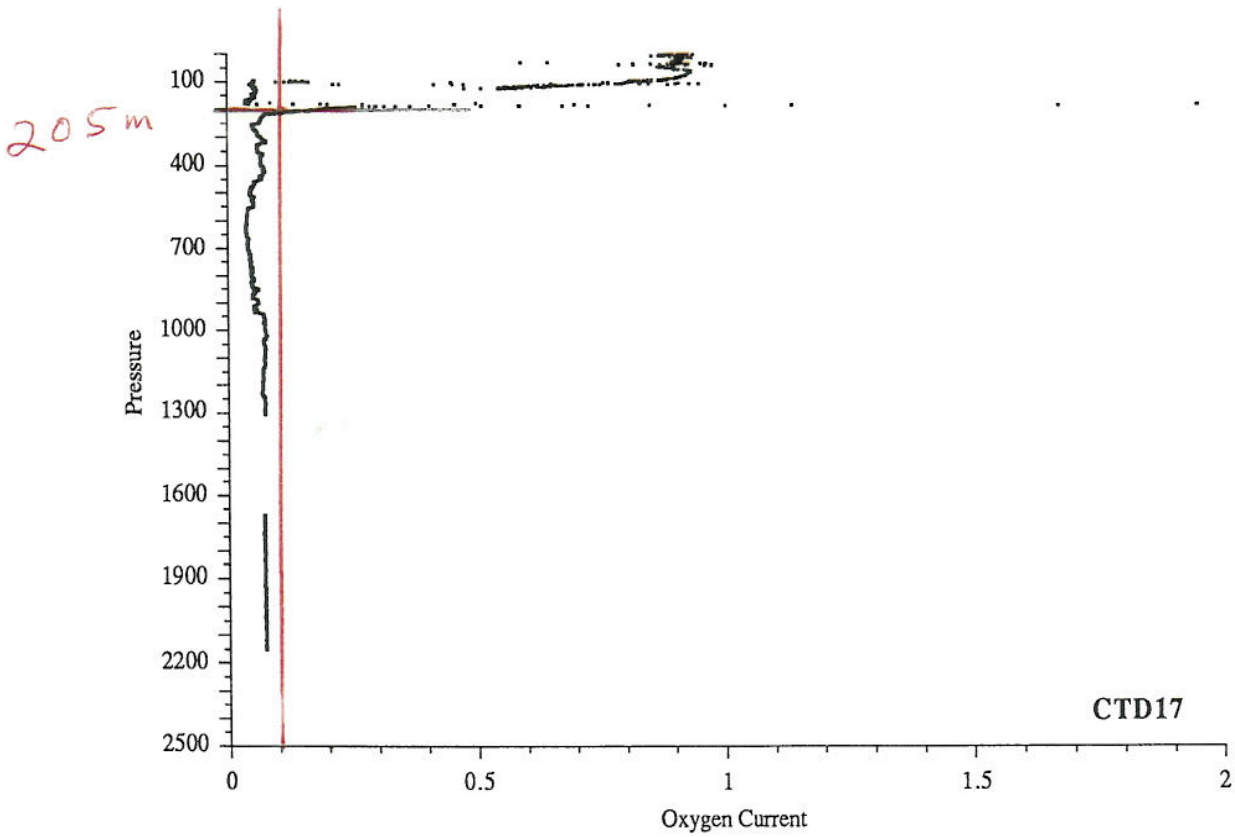

220m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
5
10
15
20
25
30
Temperature
CTD15

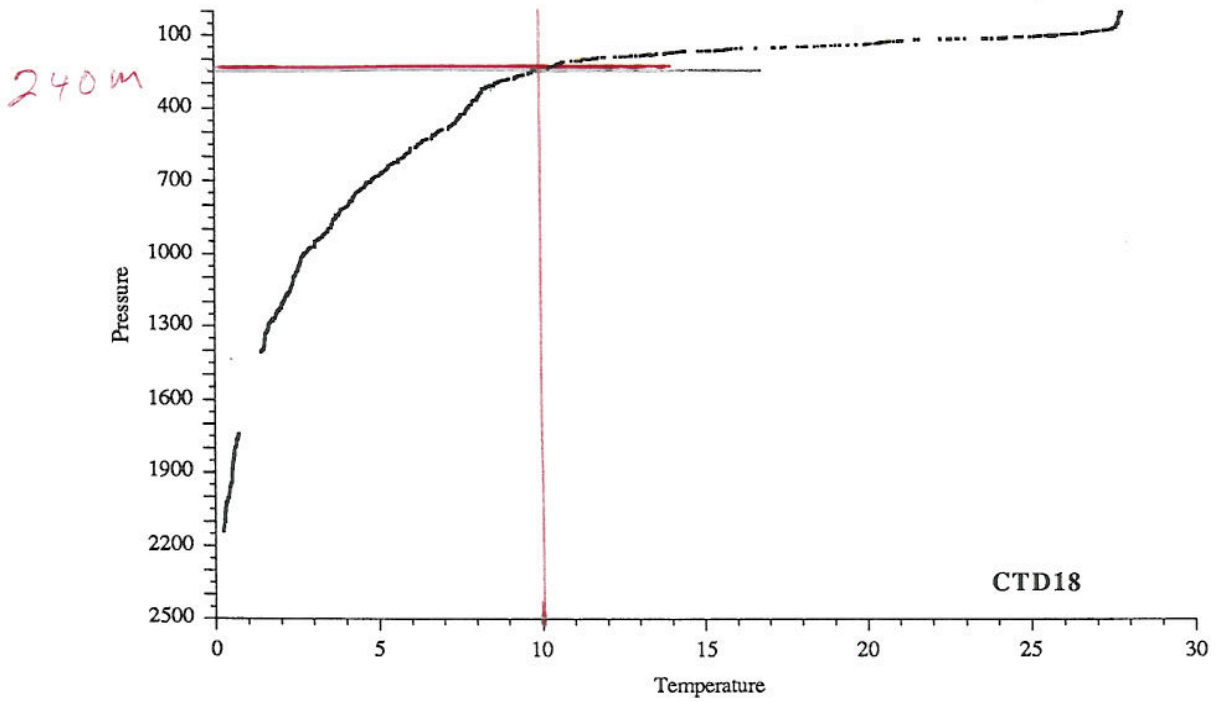

275 m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
0.2
0.4
0.6
0.8
1
Oxygen Current
CTD15

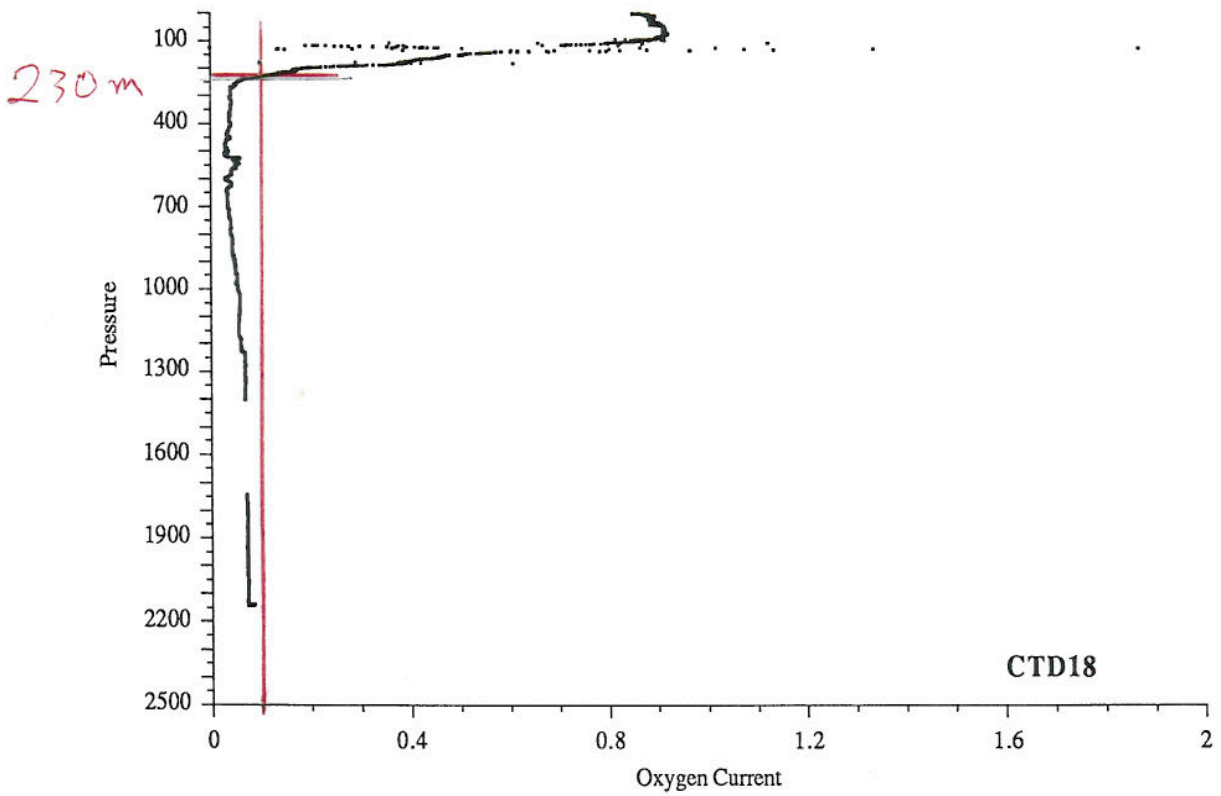

200m
0
500
1000
1500
2000
2500
Pressure
0
5
10
15
20
25
30
Temperature
CTD16


230m
100
400
700
1000
1300
1600
1900
2200
2500
Pressure
0
0.2
0.4
0.6
0.8
1
Oxygen Current
CTD16


215 m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
5
10
15
20
25
30
Temperature
CTD17


205 m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
0.5
1
1.5
2
Oxygen Current
CTD17


240m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
5
10
15
20
25
30
Temperature
CTD18


230m
Pressure
100
400
700
1000
1300
1600
1900
2200
2500
0
0.4
0.8
1.2
1.6
2
Oxygen Current
CTD18