

ROSETTE LOG

MISSION ID: 9805
STATION NAME: IND2UTC DATE y/m/d: 98/02/11
CAST NUMBER: 3SHIP: VECTOR

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ ml/l	O ₂ % M
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	1	1272		bot-10	199												1.810	
2	2	1273		175	175												1.958	85.65
3	3	1274		150	150												1.847	80.81
4	4	1275		125	125												2.097	91.75
5	5	1276		100	100												2.742	122.14
6	6	1277		75	76												2.758	20.70
7	7	1278		50	50												4.447	194.67
8	8	1279		25	24.6												4.662	204.10
9	9	1280		10	10												4.762	208.54
10	10	1281		5	5.7												5.477	240.04
11	11	1282		2nd sample from #2	175.46												1.807	79.04
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: DS
CHECKED BY:Bottom Depth: 220Cast # down: 2Cast # up: 3

Time	LOC	UTC
Begin:		
Bottom:		02:47
End:		02:59

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	49 23.62
LONG:	122 52.60

END POSITION (GPS)	
LAT:	49 23.56
LONG:	122 52.55

ROSETTE LOG

MISSION ID: 9805
STATION NAME: How 4UTC DATE y/m/d: 98/02/11
CAST NUMBER: 5SHIP: VECTORNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken													
Trip	Confirmed	SAL		NUT		ALK		TCO							
pressure	Salinity		OXY		CHL		C13								
														O ₂ m/l/g	O ₂ m/l/g
1	12	1283		bot -10	271									4.19	1.810.096
2	13	1284		250	250									6.40	1.958.147
3	14	1285		200	200									9.16	1.847.210
4	15	1286		150	150									23.72	2.544
5	16	1287		100	100									115.75	2.653
6	17	1288		75	75									163.24	3.739
7	18	1289		50	50									204.24	4.673
8	19	1290		25	25									226.84	5.195
9	20	1291		10	10.8									256.12	5.862
10	21	1292		5	5.47									265.81	6.079
11	22	1293		0	0.98									284.15	6.496
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY: JOE/DJS

CHECKED BY:

Bottom Depth: 282Cast # down: 4Cast # up: 5

Time LOC UTC

Begin:

Bottom: 08:08End: 08:19

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 35.54LONG: 123 14.69

END POSITION (GPS)

LAT: 49 35.57LONG: 123 14.77

Comments:

ROSETTE LOG

MISSION ID:

98-05

UTC DATE y/m/d:

98/02/11

STATION NAME:

NI07

CAST NUMBER:

88

SHIP:

Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Or PM/AM	Or ml/l.
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	23	1272	8.10	50	51	28.30											29.01	5.017
2	24	1273	8.6	30	30	28.5806											232.77	5.328
3	25	1274	8.2	20	20	28.2412											263.04	6.019
4	26	1275	7.3	10	10	25.6895											297.44	6.794
5	27	1276	7.2	0	1.65	23.4434											314.23	7.165
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: JOE/DJS

CHECKED BY:

Bottom Depth:

Cast # down: 7

Cast # up: 8

Time LOC UTC

Begin:

Bottom: 23:34

End: 23:38

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 22.52

LONG: 123 32.71

END POSITION (GPS)

LAT: 49 22.52

LONG: 123 32.73

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: WIO6UTC DATE y/m/d: 98/11/12
CAST NUMBER: 10SHIP: VectorNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken												O ₂	O ₂
Trip	Confirmed	SAL		NUT		ALK		TCO							
pressure	Salinity	OXY		CHL		C13									
1	28	1277	9.12	161.3	161	30.2361	↑	↑	↑					180.38	4.138
2	29	1278	9.0	150.3	150	30.1123	↑	↑	↑					190.30	4.360
3	30	1279	8.9	125.5	125	29.9371	↑	↑	↑					209.08	4.790
4	31	1280	9.0	100.6	100	29.7891	↑	↑	↑					211.03	4.834
5	32	1281	8.9	75.3	76	29.4695	↑	↑	↑					218.18	4.997
6	33	1282	8.6	50.4	50	28.8740	↑	↑	↑					219.95	5.035
7	34	1283	8.1	30.3	30	28.1787	↑	↑	↑					258.21	5.908
8	35	1284	7.8	20.4	20	27.8463	↑	↑	↑					272.36	6.231
9	36	1285	7.5	10.6	10	26.4439	↑	↑	↑					295.50	6.753
10	37	1286	7.2	5.3	2.33	23.8796	↓	↓	↓					310.66	7.086
11	38A	Double sampled													
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY: JOE/DJS

CHECKED BY:

Bottom Depth: 167Cast # down: 9Cast # up: 10

Time LOC UTC

Begin: 21:05Bottom: 00:04End: 00:13

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 21.32LONG: 123 35.11

END POSITION (GPS)

LAT: 49 21.30LONG: 123 35.12

Comments:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: WJ05UTC DATE y/m/d: 98/02/12
CAST NUMBER: 12SHIP: VectorENTERED BY: JOE/DJS
CHECKED BY:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	38	1288	10	250	255	30	↑	↑	↑								102.88	2.357
2	39	1287	9.3	200	201.7	30.7029	↑	↑	↑								116.74	2.676
3	40	1289	9.3	175	176.6	30.4539	↑	↑	↑								138.18	3.183
4	41	1291	9.2	150	150.0	30.2139	↑	↑	↑								172.07	3.943
5	42	1290	9.0	100	99.75	29.8135	↑	↑	↑								211.18	4.838
6	43	1292	8.7	75	75.6	29.7931	↑	↑	↑								231.38	5.298
7	44	1293	8.4	50	50.5	28.9366	↑	↑	↑								237.93	5.476
8	45	2000	8.1	30	30.6	28.1653	↑	↑	↑								259.24	5.932
9	46	2007	7.8	20	20.3	27.8925	↑	↑	↑								273.12	6.248
10	47	2008	7.7	10	10.6	27.9634	↑	↑	↑								283.21	6.491
11	48	2014	7.3	0	2.25	24.7434	↓	↓	↓								311.01	7.098
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

Bottom Depth: 266Cast # down: 11Cast # up: 12

Time	LOC	UTC
Begin:		<u>01:01</u>
Bottom:		<u>01:01</u>
End:		<u>01:11</u>

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	<u>49 19.65</u>
LONG:	<u>123 38.68</u>

END POSITION (GPS)	
LAT:	<u>49 19.72</u>
LONG:	<u>123 38.63</u>

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: WFO 4

UTC DATE y/m/d: 98/02/12
CAST NUMBER: 14

SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	49	1234	9.2	220	291	30.9227											102.37	2.347
2	50	1235	9.4	200	199.8	30.5702											125.94	2.086
3	51	1237	9.3	175	175.2	30.3821											149.88	3.435
4	52	1238	9.0	150	150.5	30.0479											189.48	4.341
5	53	1240	8.0	100	100.2	29.9357											216.28	4.954
6	54	1241	8.9	75	75.3	29.5599											214.61	4.915
7	55	1243	8.9	50	49.8	29.3143											213.84	4.897
8	56	1244	8.4	30	30.3	28.9815											245.73	5.624
9	57	1246	8.0	20	20.1	27.9281												6.168
10	58	1247	7.6	10	9.9	26.5862											289.59	6.619
11	59	1248	7.5	0	1.8	25.9570											300.62	6.867
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JOE/DJS
CHECKED BY:

Bottom Depth: 296

Cast # down: 13
Cast # up: 14

Time	LOC	UTC
Begin:		
Bottom:		02:35
End:		02:45

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 17.84
LONG: 123 42.21

END POSITION (GPS)
LAT: 49 17.88
LONG: 123 42.16

Comments: #57 O₂ calibration probe removed before titration completed.

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: NIO3

UTC DATE y/m/d: 98/02/12
CAST NUMBER: 16

SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	pH
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	60	1249	9.2	391.3	400	30.9714											99.03	2.270
2	61	1251	9.2	300.4	300	30.9144											101.93	2.337
3			9.2	300.8	300	30.9166												
4	62	1252	9.4	199.8	200	29.5652											132.40	3.034
5	63	1253	9.1	150.4	150	30.1460											129.12	4.333
6	64	1254	9.0	100.5	100	29.8484											205.74	4.702
7	65	1255	8.9	50.3	50	29.1903											204.33	4.679
8	66	1256	8.6	30.7	30	28.8630											222.23	5.087
9	67	1257	8.4	20.1	20	28.6313											232.23	5.467
10	68	1258	8.0	10.5	10	28.0804											244.21	6.091
11	69	1260	8.0	1.57	0	27.8675											271.19	6.204
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JOE/OJS
CHECKED BY:

Bottom Depth:

Cast # down: 15
Cast # up: 16

Time	LOC	UTC
Begin:		
Bottom:		03:45
End:		03:58

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 15.84
LONG: 123 45.90

END POSITION (GPS)
LAT: 49 15.71
LONG: 123 45.85

Comments:

ROSETTE LOG

MISSION ID: 9805
STATION NAME: N102UTC DATE y/m/d: 12/2/98
CAST NUMBER: 018SHIP: VECTOR

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ mol/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	70		9.2	300.9		✓ 308798											102.73	2.355
2	71		9.4	200.2		✓ 304914											134.67	3.086
3	72		9.4	175 ^{2.6}		✓ 303164											152.76	3.500
4	73		9.2	150.0		✓ 301515											182.45	4.180
5	74		9.1	100 ^{2.6}		✓ 299828											337.89	7.741
6	75		9.0	75 ^{2.9}		✓ 296432											205.91	4.716
7	76		9.0	50.6		✓ 293736											200.75	4.597
8	77		8.7	30.1		✓ 290040											213.70	4.892
9	78		8.5	20.7		✓ 287073											229.15	5.245
10	79		8.1	10.7		✓ 281940											264.07	6.042
11	80*		8.1	0 ^{2.3}		✓ 281862												*
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

* No sample in Niskin #11, lanyard hung up!

Last station of the night, Captain called off sampling because of strong winds.

ENTERED BY: DJS

CHECKED BY:

Bottom Depth: 340Cast # down: 17Cast # up: 18

Time	LOC	UTC
Begin:		05:11
Bottom:		05:18
End:		05:33

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	49 14.63
LONG:	123 48.47

END POSITION (GPS)	
LAT:	49 14.34
LONG:	123 48.16

ROSETTE LOG

MISSION ID: 9805
STATION NAME: VI05

UTC DATE y/m/d: 98/02/13
CAST NUMBER: 20

SHIP: VECTOR

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												O ₂ umol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
1	81	1036	8.5	bot-10	52.05	28.8963													246.59	5.645
2	82	1045	8.4	30	30.6	28.6351													245.34	5.615
3	83	1052	8.3	20	20.7	28.4622													251.92	5.766
4	84	1062	8.0	10	10.5	27.7243													263.92	6.022
5	85	1090	7.7	0	3.0	26.0692													288.12	6.582
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
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21																				
22																				
23																				
24																				

ENTERED BY: DJS
CHECKED BY:

Bottom Depth: 50

Cast # down: 19
Cast # up: 20

Time	LOC	UTC
Begin:		
Bottom:	0030	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 11.45
LONG: 123 17.83

END POSITION (GPS)
LAT:
LONG:

Comments:

2

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: VI04UTC DATE y/m/d: 98/02/13
CAST NUMBER: 22

SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ %
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	86	1103	9.1	60+	181.2	30.3982											154.69	3.245
2	87	1104	9.1	175	174.8	30.3501											159.10	3.646
3	88	1105	9.0	150	150.9	30.2402											172.42	3.951
4	89	1106	8.6	125	125.0	29.6159											238.43	5.461
5	90	1110	8.6	100	100.0	29.5109											243.05	5.567
6	91	1113	8.6	75	75.1	29.3763											241.40	5.528
7	92	1114	8.5	50	49.8	29.1777											240.14	5.499
8	93	1119	8.1	30	30.1	28.2319											272.47	6.235
9	94	1122	8.0	20	19.7	28.0988											276.28	6.322
10	95	1126	8.0	10	9.9	27.9354											278.26	6.366
11	96	1128	7.9	0	3.0	27.3661											278.31	6.367
12																		
13																		
14																		
15																		
16																		
17	9																	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

94: no PO₄ sample 91: only N/Si

ENTERED BY:

CHECKED BY:

Bottom Depth: 188

Cast # down: 21

Cast # up: 22

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: G102UTC DATE y/m/d: 98/02/13
CAST NUMBER: 24SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	97	1130	9.3	250	247	30.7769											111.66	2560
2	98	1132	9.3	200	200.6	30.6634											121.62	2788
3	99	1133	9.3	175	175.7	30.5545											133.00	3.048
4	100	1134	9.1	150	150.4	30.1917											181.08	4.149
5	101	1135	8.7	100	100.3	29.9330											231.84	5.310
6	102	1137	8.5	75	75.4	29.3151											244.83	5.687
7	103	1136	8.5	50	50.5	29.2208											242.71	5.558
8	104	1138	8.4	30	30.6	28.8102											263.28	6.027
9	105	1139	8.2	20	20.6	28.5741											266.83	6.107
10	106	1141	8.3	10	10.9	28.5140											265.59	6.079
11	107	1142	8.2	0	1.95	28.1663											264.52	6.052
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 268Cast # down: 23Cast # up: 24

Time LOC UTC

Begin:

Bottom: 02:17:44

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 02.59LONG: 123 23.23

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: VI03UTC DATE y/m/d: 98/02/13
CAST NUMBER: 26SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	108	1146	9.2	350	3300	30.9243											101.22	2.321
2	109	1148	9.2	300	3000	30.9181											101.79	2.334
3	110	1150	9.3	200	1993	30.8989											173.62	2.821
4	111	1152	9.2	175	1753	30.5879											140.75	3.226
5	112	1153	9.0	150	1507	30.2192											182.25	4.176
6	113	1154	8.6	100	1005	29.6348											243.59	5.580
7	114	1155	8.7	50	509	29.2822											236.87	5.287
8	115	1157	8.5	30	304	28.7279											242.01	5.540
9	116	1158	8.2	20	21	28.895											258.44	5.913
10	117	1160	8.0	10	107	27.5116											279.80	6.400
11	118	1167	8.0	0	.68	27.4968											277.08	6.383
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Notes: 12 rosettes on tender file - #3 a mistake?ENTERED BY:
CHECKED BY:Bottom Depth: 342Cast # down: 25Cast # up: 20

Time	LOC	UTC
Begin:		
Bottom:		<u>03/6</u>
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: VI02UTC DATE y/m/d: 98/02/13
CAST NUMBER: 28SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	119	1168	9.3	250	270.8	30.8366											111.46	2.555
2	120	1171	9.4	200	200.5	30.4622											123.17	2.823
3	121	1174	9.2	175	175.6	30.4603											137.26	3.146
4	122	1175	9.0	150	150.2	30.151											190.37	4.362
5	123	1176	8.8	100	100.3	29.6710											229.60	5.259
6	124	1177	8.6	75	75.4	29.5441											241.72	5.536
7	125	1178	8.5	50	50.4	29.3960											244.00	5.588
8	126	1180	8.4	30	30.4	28.6819											246.93	5.641
9	127	1182	8.3	20	20.5	28.569											253.80	5.809
10	128	1183	8.3	10	10.3	28.5032											256.02	5.859
11	129	1187	8.2	0	1.65	27.2525											261.39	5.982
12																		
13																		
14																		
15																		
16																		
17																		
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19																		
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22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 265Cast # down: 27Cast # up: 28

Time	LOC	UTC
Begin:		
Bottom:	<u>0416</u>	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: VT01

UTC DATE y/m/d: 98/02/13
CAST NUMBER: 30

SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ sat/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	130	1188	8.7	100	110.8	29.8406											226.73	5.483
2	131	1189	8.7	75	75.4	29.7023											230.43	5.279
3	132	1190	8.6	50	50.0	29.4844											242.78	5.360
4	133	1191	8.6	30	30.7	29.2904											238.91	5.471
5	134	1192	8.4	20	20.9	28.8206											242.58	5.553
6	135	1193	8.4	10	10.4	28.5181											259.95	5.949
7	136	1194	8.4	0	1.8	28.4776											256.68	5.875
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 124

Cast # down: 29
Cast # up: 30

Time LOC UTC
Begin:
Bottom: 0503
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: GI03

UTC DATE y/m/d: 98/02/13
CAST NUMBER: 32

SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	137	1036	9.2	360	361	30.9517											92.48	2.178
2	138	1045	9.2	300	300	30.8988											103.98	2.384
3	139	1052	9.4	200	200	30.6203											127.12	2.914
4	140	1062	9.5	175.3	175	30.4371											140.94	3.230
5	141	1090	9.0	150	150	30.0933											191.41	4.386
6	142	1103	8.5	100.4	100	29.8963											251.50	5.761
7	143	1104	8.8	50.8	50	29.4443											222.73	5.101
8	144	1105	8.6	30.6	30	28.8570											227.43	5.206
9	145	1106	8.3	20.8	20	28.4704											244.47	5.595
10	146	1110	7.9	10.3	10	27.4688											278.81	6.376
11	147	1113	7.7	0	1.8	26.4109											286.51	6.547
12																		
13																		
14																		
15																		
16																		
17																		
18																		
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20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 375

Cast # down: 31
Cast # up: 32

Time	LOC	UTC
Begin:		
Bottom:		0607
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID:

98-05

UTC DATE y/m/d:

98/02/13

STATION NAME:

G104

CAST NUMBER:

34

SHIP:

Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mmol/kg	O ₂ nd/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	148	1114	9.2	357	375.6	30.9842											95.69	2.194
2	149	1119	9.2	300	300.2	30.8991											104.46	2.395
3	150	1122	9.4	200	199.8	30.4674											135.85	3.113
4	151	1126	9.3	175	175.7	30.2093											163.54	3.748
5	152	1128	9.2	150	150.5	Double Alt 6 30.1591											180.56	4.137
6	153	1130	9.0	100	100.4	28.1839											207.28	4.742
7	154	1132	8.9	50	50.6	29.8653											227.14	5.204
8	155	1133	8.9	30	30.5	29.2913											228.97	5.243
9	156	1134	8.3	20	20.6	28.8747											245.64	5.623
10	157	1135	8.0	10	10.5	28.3996											274.31	6.278
11	158	1137	7.9	0	1.43	27.5615											283.67	6.488
12																		
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24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 388

Cast # down: 33

Cast # up: 34

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: NI01UTC DATE y/m/d: 98/02/13
CAST NUMBER: 36SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mm/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	159	1136	8.9	100	101.1	29.7748											217.77	4.989
2	160	1138	8.9	75	74.6	29.7451											220.69	5.055
3	161	1139	8.9	50	50.8	29.6671											213.29	4.985
4	162	1141	9.0	30	31.0	29.4544											211.26	4.838
5	163	1142	9.0	20	19.8	29.4097											209.40	4.795
6	164	1143	8.9	10	10.1	29.2473											212.32	4.862
7	165	1144	8.4	0	1.43	28.3242											249.67	5.713
8																		
9																		
10																		
11																		
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24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 110Cast # down: 35Cast # up: 36

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9805
STATION NAME: D7AUTC DATE y/m/d: 13/2/98
CAST NUMBER: 0389SHIP: VECTOR

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ µmol/kg	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	166		8.8	bot-10	15.7	✓	29.8818											
2	167		8.7	125	125.1	✓	29.8143										260.07	5.958
3	168		8.7	100	99.5	✓	29.7361										259.37	5.942
4	169		8.7	75	74.5	✓	29.7683										259.72	5.950
5	170		8.7	50	49.8	✓	29.7212										259.39	5.951
6	171		8.7	30	21.0	✓	29.7683										260.06	5.957
7	172		8.6	20	20.4	✓	29.6909										259.49	5.920
8	173		8.6	10	10.1	✓	29.6796										259.16	5.936
9	174		8.6	0	0.9	✓	29.6477										259.49	5.944
10																		
11																		
12																		
13																		
14																		
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24																		

Comments: #166 O₂ calibrations (operator) million bar - no dataENTERED BY: DJS
CHECKED BY:Bottom Depth: 163Cast # down: 38 037Cast # up: 038

Time	LOC	UTC
Begin:		1907
Bottom:		1911
End:		1919

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID:

9805

UTC DATE y/m/d:

98/02/13

STATION NAME:

GI01

CAST NUMBER:

41

SHIP: VECTOR

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ ml/l	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	175	1110	9.3	bot-10	150.9	20.5381											136.98	3.139
2	176	1113	9.1	125	125.7	30.3312											176.90	4.000
3	177	1114	8.6	100	100.5	29.5815											242.28	5.550
4	178	1119	8.5	75	75.1	29.4072											246.34	5.642
5	179	1122	8.4	50	50.7	29.2096											248.59	5.692
6	180	1126	8.4	30	30.7	29.0248											254.04	5.816
7	181	1128	8.3	20	20.4	28.8708											254.86	5.833
8	182	1130	8.2	10	10.9	28.5587											266.03	6.059
9	183	1132	8.1	0	2.1	28.1598											276.62	6.316
10																		
11																		
12																		
13																		
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24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 165

Cast # down: 40

Cast # up: 41

Time LOC UTC

Begin:

Bottom: 2146

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9805

UTC DATE y/m/d:

98/02/13

SHIP: Vector

STATION NAME:

mI03

CAST NUMBER:

43

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	TCO					
1	184	1133	110.7	bot-10	110	Maybe double trip 29.5150	8.6										240.52 5.509
2	185	1134	110.7	100	100	29.5150	8.6										240.82 5.516
3	186	1135	100.8	75	75	29.5144	8.6										243.02 5.566
4	187	1136	75.6	50	50	29.3327	8.4										257.60 5.899
5	188	1137	50.5	30	30	29.2658	8.4										262.13 6.063
6	189	1138	30.4	20	20	29.2306	8.4										264.03 6.046
7	190	1139	20.5	10	10	29.2074	8.3										268.10 6.139
8	191	1141	10.4	0	2.1	29.1552	8.3										269.63 6.174
9	192	1142	6.1			29.3210	8.1										276.11 6.319
10	192																
11																	
12																	
13																	
14																	
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24																	

Comments:

ENTERED BY: *

CHECKED BY:

Bottom Depth: 126

Cast # down: 72

Cast # up: 43

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: ST03UTC DATE y/m/d: 98/02/13
CAST NUMBER: 45SHIP: Vector

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	O ₂
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	192	1143	8.8	150	150	29.8747											218.32	5.002
2	193	1144	8.7	125	125.6	29.6972											239.65	5.490
3	194	1145	8.6	100	100.9	29.6404											248.43	5.691
4	195	1036	8.6	75	75.4	29.5327											252.41	5.781
5	196	1045	8.5	50	50.5	29.4745											251.21	5.754
6	197	1052	8.5	30	30.2	29.4701											251.71	5.765
7	198	1062	8.5	20	20.2	29.4437											252.95	5.793
8	199	1090	8.5	10	10.5	29.4269											253.76	5.812
9	200	1103	8.4	0	1.73	29.2663											262.08	6.002
10																		
11																		
12																		
13																		
14																		
15																		
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24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 158Cast # down: 44Cast # up: 45

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 98-05
STATION NAME: SI02UTC DATE y/m/d: 98/02/14
CAST NUMBER: 69SHIP: VectorNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
			OXY		CHL		C13								
1	201				200	200									
2	202				150	149.5									
3															
4															
5															
6															
7															
8															
9															
10															
11															
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21															
22															
23															
24															

ENTERED BY:

CHECKED BY:

Bottom Depth: 218Cast # down: 68Cast # up: 69

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: