

CRN

9119

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

DEC. 09 to 20, 1991

VESSEL

R. B. Young

PROJECT

ALBERNI OXYGENS

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Cruise Participants/Agencies: _____

Scientific Personnel: Party Chief: Dario Stucchi

Name	Watch	Cabin	Name	Watch	Cabin
Dario Stucchi					
Darren Tuale					
Bernard Minkley					

Second leg of cruise: Party Chief: _____

Third leg of cruise: Party Chief: _____

Data logging system: Unit number: #2 Program version: _____

CTD deck unit make: <u>Gouldline</u>	model: <u>87107</u>	serial no.: <u>57,160</u>
Computer make: <u>HP Vectra</u>	model: <u>D1430A</u>	serial no.: <u>2938A05320</u>
Monitor make: <u>NBC</u>	model: <u>Multisync 24</u>	serial no.: _____
Printer make: <u>STAR</u>	model: _____	serial no.: _____

1st CTD make: <u>Gouldline</u>	model: <u>8715</u>	serial no.: <u>58,482</u>
Temperature sensor	model: <u>87401</u>	serial no.: <u>52,267</u>
coefficients: slope: _____		offset: _____
Conductivity sensor	model: <u>87410</u>	serial no.: <u>58,816</u>
coefficients: slope: _____		offset: _____
Pressure sensor range: <u>3000</u>	psi	serial no.: _____
coefficients: FSP: <u>2000</u>	dB	offset: _____
Transmissometer	model: _____	serial no.: <u>5N136</u>
coefficients: slope: _____		offset: _____

Comments: _____

2nd CTD make: _____ model: _____ serial no.: _____
 Temperature sensor model: _____ serial no.: _____
 coefficients: slope: _____ offset: _____
 Conductivity sensor model: _____ serial no.: _____
 coefficients: slope: _____ offset: _____
 Pressure sensor range: _____ psi serial no.: _____
 coefficients: FSP: _____ dB offset: _____
 Transmissometer model: _____ serial no.: _____
 coefficients: slope: _____ serial no.: _____

WINCHES:

CTD make: Ocean Ecology model: _____ serial no.: _____
 counter make: _____ model: _____ serial no.: _____
 ✓ HYDRO make: _____ model: _____ serial no.: _____
 counter make: _____ model: _____ serial no.: _____
 Spooling make: _____ model: _____ serial no.: _____
 Drag make: _____ model: _____ serial no.: _____
 Other make: _____ model: _____ serial no.: _____

Salinometer make: Portasol model: _____ serial no.: _____

SAIL System:

Program version: _____ Time zone: _____
 Sampling interval: _____ sec.
 CTF module no.: _____ serial no.: _____
 Remote temperature model: _____ serial no.: _____
 Flow sensor model: _____ serial no.: _____
 Other sensors: (special for this cruise)
 Name: _____ module I.D.: _____ serial no.: _____
 Name: _____ module I.D.: _____ serial no.: _____

Comments:

ADCP Setup: _____
 Program version: _____ number of depth bins: _____
 Time zone: _____ bin length (2'): _____
 Sampling interval: _____ sec. pulse length: _____
 Blank beyond transmit: _____ pings per ensemble: _____
 Pulse cycle time: _____
 Percent pings good threshold: _____

Comments:

YEAR	1991	MONTH	DEC	TIME	ZONE	UTC	SHIP	R.B. Young	CRUISE	9119	PAGE	1	OF	9
DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE/ LONGITUDE	STD CONSEC #	STD TIME	HYDRO CONSEC #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	LOOP SALINITY #	NOTES	
10	SN9				0001	0041								P ₀ = 0.5 Test cast
10	SN9				0002	0048	0003	0001 to 0003	Program bombled when first bottle triggered					Upcast + Rosette (B#2) All 9 bottles tripped at same depth
10	SN9				0003	0053	0003							Upcast + Rosette held at surface for 5 min. Bottle # 3 to #10
10	PA13	134		4907.7 12448.45	0004	19:01								P ₀ = 1.4
10	PA13				0005	19:06	0005		duplicate salinity sample drawn					Upcast, all 10 bottles at 75m P _B = 1.9m (Go flow test)
10	PA10	117		4909.25 12448.10	0006	20:00								P ₀ = 2.0
	PA10				0007	20:05	007							P _B = 2.3 Upcast for rosette (deep cast)
10	PA10				0008	20:29								P ₀ = 1.2
10	PA10				0009	20:30	009							P ₀ = 2.1, Shallow upcast for rosette

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[illegible]

Station SA19

Tag# Depth Time

B1	—	—
B2		00:52
B3 1	88m	
B4 2	88	00:53
B5 3	89	00:54
B6 4		00:54
B7 5		00:54
B8 6		00:55
B9 7		00:55
B10 8		00:55

Trapped on deck (SL Niskin)
program bombed. console ; - bottle leader
CONS 0003

Bottle #6 (B6) did not close, lanyard hung up on pressure valve!
- Bottle leader

Station PA13

Tag#	Depth	Cons#005
1	~75m	19:08
2		19:08
3		19:08
4		19:09
5		19:09
6		19:09
7		19:09
8		19:09
9		19:09
10		19:10

PA10

CONS# 007

Tag#	Time	Depth (m)	Actual
1	20:06	100m	99.9
2	20:08	75m	74.5
3	20:09	60m	59.3
4	20:10	50	49.8
5	20:10	40	39.8
6	20:11	35	35.8
7	20:12	30	29.8
8	20:12	25	25.9
9	20:13	20	19.9
10	20:13	15	15.8

PA10

CONS# 009

Tag #	Depth	Actual Time
1 st	15	14.2 20:31
2	10	10.0 20:32
3	8	7.9 20:33
4	6	6.1 20:33
5	4	4.2 20:34
6	2	1.9 20:34
7	0	0.0 20:35

x

PA07

CONS# 011

Tag	Depth	Time
1	100	20:58
2	75	21:00
3	60	21:01
4	50	21:01
5	40	21:02
6	35	21:03
7	30	21:03
8	25	21:04
9	20	21:04
10	15	21:05

PA07

CONS# 013

Tag	Depth	Time
1	10	21:23
2	8	21:23
3	6	21:24
4	4	21:24
5	2	21:25
6	0	21:25

PA05

CONS# 15

Tag	Depth	Time
1	60	21:47
2	50	21:47
3	40	21:48
4	35	21:49
5	30	21:49
6	25	21:49
7	20	21:50
8	15	21:51
9	10	21:51
10	8	21:52

PA05

CONS# 17

Tag	Depth	Time
1	6	22:15
2	4	22:16
3	2	22:16
4	0	22:16
5		
6		

missed this tag!

PA04

CONS# 019

Tag	Depth	Time
1	50	2234
2	40	2234
3	35	2235
4	30	2235
5	25	2236
6	20	2236
7	15	2237
8	10	2237
9	8	2238
10	6	2238

- ~~Depth at 10~~

PA04

CONS# 021

Tag	Depth	Time
1	6	2254
2	4	2255
3	2	2255
4	0	2256

PA03

CONS# 023

Tag	Depth	Time
1	30	2320
2	25	2321
3	20	2322
4	15	2322
5	10	2322
6	8	2322
7	6	2323
8	4	2324
9	2	2324
10	0	2325

} did not
trip

PA03

CONS#

Tag	Depth	Time
1	2	2340
2	0	2340
3		
4		
5		
6		
7		
8		
9		
10		

9 x 10 did not trip

[illegible]

PA02 Cons# 027

Tag	Depth	Time
1	20	2354
2	15	2356
3	10	2357
4	8	2357
5	6	2358
6	4	2359
7	2	2359
8	0	0000

PA01 Cons# 029

Tag	Depth	Time
1	10	0015
2	8	0016
3	6	0017
4	4	0017
5	2	0018
6	0	0018
7		

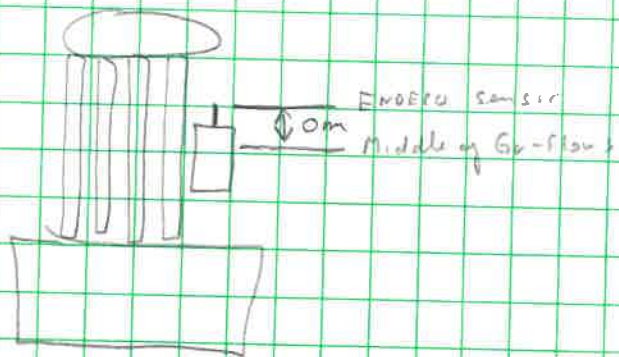
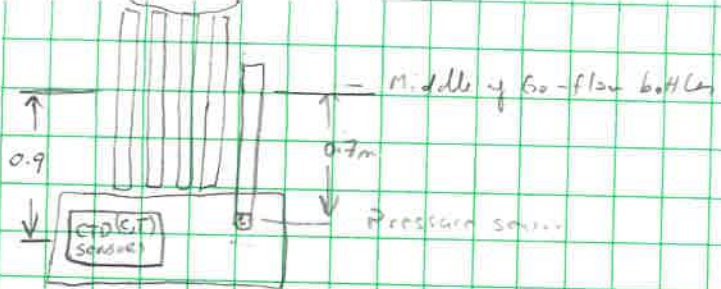
* Note bottles 9+10 trip together *

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[illegible]



Bottle #

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12	F11		491395	30	19:38	030			B2				lost downcast?
			123 49 80										EMBECC test at 8.5m. Tag 1 at 19:40
				31	19:56	030			B3				last bottle trip at the depth 8.5m. Tag 1 at 20:00
				32	20:03	030			B4				7.5m., first sample Tag 1 at 20:10
				33	20:23	030			B5				7.5m., last sample Tag 1 at 20:25
				34	20:33	030			B6				6.5m., first sample Tag 1 at 20:35
				35	20:47	030			B7				6.5m., last sample Tag 1 at 20:50
				36	20:58	030			B8				3.5m., first sample Tag 1 at 21:00
				37	21:14	030			B9				3.5m., middle last sample Tag 1 at 21:15
12	F11			38	21:28	030			B10				Surface, one and only sample at the depth. Tag 1 at 21:30 $P_0 = 2.0$

N09

CONS#040

Tag	Depth	Time
1	10m	1934
2	9	1936
3	8	1937
4	7	1937
5	6	1938
6	5	1938
7	4	1939
8	3	1939
9	2	1940
10	0	1941

N07

CONS#045

Tag	Depth	Time
1	14	1844
2	12	1845
3	10	1846
4	9	1847
5	8	1847
6	7	1848
7	6	1848
8	4	1849
9	2	1849
10	0	

G13

CONS# 42

Tag	Depth	Time
1	13	18:53
2	12	18:54
3	10	18:55
4	9	18:55
5	8	18:59
6	7	18:59
7	6	19:00
8	4	19:00
9	2	19:01
10	0	19:02

N11

CONS# 47

Tag	Depth	Time
1	17	18:54
2	16	18:55
3	15	18:55
4	12	18:56
5	10	18:56
6	8	18:58
7	6	18:59
8	4	19:00
9	2	19:01
10	0	19:02

* did not trip at first, ON/OFF - OK

* " " " " " " " " " " " "

19:00 - OK

19:01 - * did not trip at first, ON/OFF - OK

* Actually tripped though dock unit
did not indicate a trip. Yellow sample
just stayed lit & clock arm did not rotate
- no click or latch sound

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13	N09	10m	4914.15	39 1931									Downcast, $P_0 = 2.4$ pressure spikes!
			12449.05										
13	N09	10m		40 1934	0040								Upcast for rosette $P_B = 3.1$
14	G13	14m	4913.75	41 1851									Downcast $P_0 = 2.4$ Spikes at halocline
			12449.65										
14	G13			42 1853	042								Upcast for rosette $P_B = 3.1$
				Crashed. Communication buffer overflow									
14	G13			43 1858	042								Upcast for rosette $P_B = 3.1$ continuation from 8m.
15	N07	15m	4914.35	44 1841									Downcast, $P_0 = 2.2$
			12449.05										
15	N07			45 1844	045								Upcast for rosette $P_B = 2.5$
16	N11	17m	4913.95	46 1851									Downcast, $P_0 = 2.6$
			12449.05										
16	N11			47 1854	047								Upcast for rosette $P_B =$

K12

CONS# 049

Tag	Depth	Time	
0	16	1833	no tag on CTD file not tripping at deck unit.
1 7	15	1835	
2 8	14	1836	*
3 4	12	1837	
4 5	10	1838	
5 6	8	1839	
6 7	6	1839	
7 8	4	1840	
8 9	2	1841	
9 10	0	1842	

* bottle trips but deck unit does not
confirm it by either the clicking sound
nor by advancing indicator.
Yellow sample light stays on

H15

CONS# 051

Tag	Depth	Time	
1	20	1813	
2 *	16	program crashed before bottle trip	
1	14	1816	
2	12	1817	deck unit did not indicate trip.
3	10	1818	
4	8	1819	"
5	6	1819	
6	4	1820	
7	2	1821	}
8	0	1822	
9	0	1822	

enter at same
depth

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[illegible]

PA01

Cons# 056

Tag	Depth	Time
1	15	14:13
2	10	14:14
3	8	14:14
4	6	14:15
5	4	14:15
6	2	14:16
7	0	14:17

PA02

Cons# 058

Tag	Depth	Time
1	20	14:34
2	15	14:35
3	10	14:35
4	8	14:36
5	6	14:36
6	4	14:37
7	2	14:37
8	0	14:38

PA03

Cons# 060

Tag	Depth	Time
1	30	14:55
2	25	14:55 x deck unit did not top
3	20	14:56
4	15	14:57
5	10	14:58
6	8	14:58
7	6	14:59
8	4	14:59
9	2	15:00
10	0	15:00

PA04

Cons# 062

Tag	Depth	Time
1	50	15:44
2	40	15:45
3	35	15:45
4	30	15:46
5	25	15:47
6	20	15:48
7	15	15:48
8	10	15:50
9	8	15:50
10	6	15:51

PA04

Cons# 064

Tag	Depth	Time
1	4	16:05
2	2	16:06
3	0	16:07

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[illegible]

PA05 cns# 066

PA05 cns# 068

PA07 cns# 070

PA07 cns# 072

Tag	Depth	Time
1	60	16:20
2	50	16:21
3	40	16:23
4	35	16:23
5	30	16:24
6	25	16:25
7	20	16:26
8	15	16:26
9	10	16:27
10	8	16:27

Tag	Depth	Time
1	6	16:42
2	4	16:43
3	2	16:43
4	0	

Tag	Depth	Time
1	100	17:02
2	75	17:03
3	60	17:04
4	50	17:05
5	40	17:06
6	35	17:07
7	30	17:08
8	25	17:08
9	20	17:09
10	15	17:10

Tag	Depth	Time
1	10	17:26
2	8	17:27
3	6	17:28
4	4	17:28
5	2	17:29
*6	0	17:30
* Bottle #6 dropped but did not close, tripped bottle #7 for O ₂ sample.		

PA10 cns# 074

PA10 cns# 076

Tag	Depth	Time
1	100	17:48
2	75	17:50
3	60	17:51
4	50	17:52
5	40	17:53
6	35	17:54
7	30	17:54
8	25	17:55
9	20	17:56
10	15	17:57

Tag	Depth	Time
1	10	18:12
2	8	18:13
3	6	18:13
4	4	18:14
5	2	18:14
*6	0	18:15

* bottle #6 trips but does not close
we tripped bottle #7

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DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE/ LONGITUDE	STD CONSEC #	STD TIME	HYDRO CONSEC #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	LOOP SALINITY #	NOTES
19	PA05	70-	49 11.80	65	16:16								Downcast, $P_0 = 2.2$
			124 49.00										
	PA05			66	16:19	066							Upcast for rosette, $P_B = 3.0$
	PA05	70-		67	16:40								Shallow downcast, $P_0 = 2.0$
	PA05			68	16:41	068							Shallow upcast for rosette $P_0 = 3.0$
19	PA07	106		69	16:56								Downcast, $P_0 = 2.0$
	PA07			70	17:01	070		15					Salinity #15 @ 100m. Upcast for rosette, $P_B = 2.8$
	PA07			71	17:24								Shallow downcast, $P_0 = 1.8$
	PA07			72	17:26	072							Shallow upcast for rosette $P_B = 2.8$
19	PA10	120	49 09.25	73	17:43								Downcast, $P_0 = 2.0$
			124 48.10										
	PA10			74	17:47	074		16					Upcast for rosette, $P_B = 2.6$ Salinity #16 @ 100m
19	PA10			75	18:10	075							Shallow downcast, $P_0 = 1.7$
19	PA10			76	18:12	076							Shallow upcast for rosette $P_B = 2.7$

PA13 Cno# 078

Tag	Depth	Time
1	125	1835
2	100	1837
3	75	1838
4	60	1839
(1) x 5	50	1840
(2) x 6	40	1840
7	35	1841
8	30	1842
9	25	1842
10	20	1843

(2) x half open.

(1) bottle empty

PA13 Cno# 680

Tag	Depth	Time
B1 1	50	1904
B2 2	40	1905
B3 3	15	1906
B4 4	10	1907
B7 5	8	1907
B8 6	6	1909
B9 7	4	1910 - tripped ok
B10 8	2	1910 - tripped ok
9	0	

Bottle #5 & #6 closed

Problem in splice!

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