

CRUISE
NUMBER

9735

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

NOVEMBER 02 1997

VESSEL

RICKER PBS

PROJECT

Cruise 9735

Captain: _____

First Officer: _____

Second Officer: _____
Third Officer: _____

Cruise Participants / Agencies: ABS / IOS

Scientific Personnel: Party Chief: JOHN MORRIS

Name	Watch	Cabin	Name	Watch	Cabin
EMANUELA (F)		F			
DAVID HUNTLEY (M)		7			
JOHN LOVE (M)		6			
MIKE (M)	(BIRD)	7			
SLAVA (M)		5			
ERIN (F)		8			

Second leg of cruise: _____ Party Chief: _____

[illegible]

Data logging system: Unit no.: PBS 486

Program Name: CTD ACQ Program version: 1.20

CTD deck unit make: GUILDLINE model: 87107 serial no.: 58610

Computer make: Touch model: 486 serial no.: _____

PRIMARY CTD PROBE

1st CTD make: Gurline model: 8715 serial no.: 58483

Temperature sensor
model: _____
serial no.: 57915

coefficients: slope: 0.9991 offset: + 0.0387

Conductivity sensor
model: _____ serial no.: 58 814

coefficients: slope: 0.9996 offset: -0.0004

Pressure sensor range: 3000 psi serial no.: _____

coefficients: FSP: _____ dB offset: _____

Transmissometer

model:	2	serial no.:	234
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coefficients: slope: -2.01997
offset: 100.918

Comments: Calibration data SVL-97

1-30

2nd CTD make: GUILDLINE model: 8715 serial no.: 53501
Temperature sensor model: serial no.:
coefficients: slope: offset:
Conductivity sensor model: serial no.:
coefficients: slope: offset:
Pressure sensor range: psi
coefficients: FSP: dB offset:
Transmissometer model: serial no.:
coefficients: slope: offset:

Winches:

1. make: model: serial no.: use:
2. make: model: serial no.: use:
3. make: model: serial no.: use:
4. make: model: serial no.: use:
5. make: model: serial no.: use:
6. make: model: serial no.: use:
7. make: model: serial no.: use:

THERMO SALINOGRAPH

Salinometer: make: SEA-BIRD model: SBE 21 serial no.: 2116733-2488

SAIL System:

Program version: SEADAC Time zone: PST
Sampling interval: 120 sec NEMA DATA POSITION AND TIME (UTC)

CTF module no.: serial no.:
~~NOT IN~~ STALLED serial no.:

Remote temperature model: serial no.:
Flow sensor model: serial no.:

Other sensors: (special for this cruise)

Name: CONDUCTIVITY module ID: serial no.: 2488
Name: TEMPERATURE module ID: serial no.: 2488
Name: module ID: serial no.:

Comments: Temp Coeff. ITS 90 - IPS 68 CONDUCTIVITY

$a = 4.16465436e-03$ $b = 3.64546943e-03$ $g = -4.07592811e+00$ $a = 6.70764445e-03$
 $h = 5.92236995e-04$ $b = 5.84913973e-04$ $h = 4.86712587e-01$ $b = 4.78326220e-01$
 $i = 5.49676837e-07$ $c = 7.94886658e-06$ $i = 1.04347077e-03$ $c = -4.06760649e-00$
 $j = -2.79163351e-06$ $d = -2.79144136e-06$ $j = -1.87629456e-05$ $d = -9.38172850e-05$
 $f_0 = 1000.000$ $f_0 = 2412.305$ $CP_{cor} = -9.57e-08$ $M = 2.4$
 $CT_{cor} = 3.25e-06$ $CF_{cor} = -9.57e-08$

ADCP Setup:

Program version: number of depth bins:
Time zone: bin length (2x):
Sampling interval: sec pulse length:
Blank beyond transmit: pings per ensemble:
Pulse cycle time:
% pings good threshold:

Comments:

Depart PBS November 02 1997 0800 PST.

AR Campbell River. 02/11 16:50 PST

Sample Conventions for numbering.

Samples are in Numerical order and are in sets/groups

Example Samples labeled # 2 are all From the same station and location, usually Loop samples

(e.g.) Nutrients will be labeled Sample # 2 NUT 1 NUT 2 NUT 3...
Salinity Sample # 2 Loop and/or CALIBRATION.
0.8 Sample # 2

Ba Barium
PHI Phyto Plankton

Log book entry comment field indicates the chemistry sampled ie. NUT SAL 0.8 ect.

Nut will have a multiplier to indicate how many samples were taken at station usually x2 or x4

CTD cast #1

Note: Thermosalinograph salinity and temp in good agreement with CTD at 5 meters.

Nov 4. Tuesday 08:30 PST Malacca Passage to Bell passage

53 58 363

130 12 423

Wind 20 ~ 25 Kn

NAV DIGITAL CHART UNIT CLOCK IS 2 MIN SLOW : CHECKED AGAINST GPS AND WWV TIME SIGNALS.

THIS CLOCK CANNOT BE SET FROM THE CONSOLE AS IT IS REFERENCED TO SATELLITE DO NOT UNDERSTAND THE 2 MINUTE ERROR. (S. Love)

NOTE

AFTER TEST CAST #1 EXTRA RECORDS AND MODIFIED PRINTER OUTPUT TURNED OFF.

Nov 4 10:45 PST CHANGE OF TRANSMISSOMETER CALIBRATIONS IN ACQUISITION PROGRAM.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH NOV			SHIP RICKER				CRUISE 9735			PAGE OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
03	NEW	CTD	23:32	BE	1	51 51 499	127 55 951	GPS	311	291	#1	LOOP	flow	2x LOOP NUT + SAL + BA + O.18
03	"	CTD	23:39	Bo	1/2	51 51 435	127 55 843	GPS						+PH
03	"	CTD	23:44	EN	2	51 51 376	127 55 805	GPS						
05	"	CTD	15:43	BE	3	55 59 402	134 33 579	GPS	315		2	LOOP	flow	2x + NUT LOOP + BA + O.18
05	"	CTD	15:50	Bo	3/4	55 59 362	134 33 712	GPS		301				Tow #1 BONGO
05	"	CTD	15:54	EN	4	55 59 297	134 33 731	GPS						
05	"	CTD	17:30	BE	5	55 59 109	134 42 686	GPS			3	LOOP	flow	2x LOOP NUT + SAL + BA + O.18
05	"	CTD	17:37	Bo	5/6	55 59 095	134 42 765	GPS	320	290				+PH1
05	"	CTD	17:39	EN	6	55 59 083	134 42 782	GPS						Tow #2 BONGO
05	"	CTD	19:18	BE	7	56 00 028	134 50 610	GPS			4	LOOP	flow	2x LOOP NUT + SAL + BA + O.18
05	"	CTD	19:24	Bo	7/8	56 00 063	134 50 601	GPS	305					+PH1
05	"	CTD	19:27	EN	8	56 00 076	134 50 608	GPS						Tow #3 BONGO
05	"	CTD	21:25	BE	9	56 01 433	134 57 147	GPS	393	370	5	LOOP	flow	2x LOOPS NUT + SAL + Ba + O.18
05	"	CTD	21:31	Bo	9/10	56 01 496	134 57 079	GPS						+PH1
05	"	CTD	21:36	EN	10	56 01 518	134 56 982	GPS						Tow #4 BONGO
05	"	CTD	23:17	BE	11	56 01 843	135 04 926	GPS	404	395	6	LOOP	flow	4x LOOP NUT + SAL + BA + O.18
05	"	CTD	23:24	Bo	11/12	56 01 829	135 04 863	GPS						
05	"	CTD	23:29	EN	12	56 01 812	135 04 844	GPS						Tow #5 BONGO

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

NOV 5 1997

CORONATION ISLAND

TO LISIANS

CHART

NOAA 17320

STATIONS 2 to 6

Consec #

3 through 12

on the above chart.

15:00 PST LOST BONGO NET FROM FRAME

REPLACED WITH SPARE NET
AND CUP

BONGO LOG: VER. CTD LOG SAMPLE LOG.

Tow #	SAMPLE #
Tow #1	2
Tow #2	3
Tow #3	5
Tow #4	6
Tow #11	13
Tow #12	14

POSITION

55	59	362	134	33	712
55	59	083	134	42	782
56	01	433	134	57	147
56	01	843	135	04	926
56	00	114	135	42	585
56	01	351	135	34	392

BONGO TOWSAMPLE GROUP

SAMPLE #
2
3
4
5
6
7
13
14
15

Tow #1
Tow #2
Tow #3
Tow #4
Tow #5
Tow #6
Tow #11
Tow #12
Tow #13

22:40 PST

CALIBRATION BOTTLE

SALINITY # 10 / 1000 m

	SN°	TEMP READING
THERM #1	T577	3.223
THERM #2	T647	3.247
PRESSURE	P209	DBAR READING 989.1

AC
24 MK

Messenger

06:58

UTC

Depth

1000

07:01

UTC

1000

(Header File)

Probe Temp 3.237

Probe Ratio 0.74049

Salinity 34.349

ADCP Stopped the ADCP logging

NOV 06 at 19:14 UTC

ADCP Start logging again

NOV 07 at 02:39 UTC

Reason For gap: Ship repeating cruise track so David did not need the information.

NOV 6+L

2nd Bongo Net lost during morning tow.

0800 PST

DAILY LOG

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1997			Nov			RICKER			9735								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
06	NEW	CTD	0202	BE	13	56 00 342	135 16 445	GPS	350		7	Loop	flow	2x LOOP NUT + SAL + Ba + 0.18 +			
06	"	CTD	0208	Bo	13/14	56 00 325	135 16 482	GPS		330				PH ₁			
06	"	CTD	0213	EN	14	56 00 281	135 16 563	GPS						Tow #6 BONGO.			
06	"	CTD	0421	BE	15	55 59 490	135 35 186	GPS			8	Loop	flow				
06	"	CTD	0434	Bo	15/16	55 59 457	135 35 254	GPS	818	800				2x NUT + SAL + Ba + 0.18			
06	"	CTD	0444	EN	16	55 59 434	135 35 406	GPS						+ PH ₁			
06	"	CTD	0526	BE	17	55 59 494	135 43 908	GPS			9	Loop	flow	2x NUT + SAL + Ba + 0.18			
06	"	CTD	0544	Bo	17/18	55 59 464	135 44 209	GPS	1554					+ PH ₁			
06	"	CTD	0601	EN	18	55 59 486	135 44 759	GPS									
06	"	CTD	0641	BE	19	55 59 578	135 52 885	GPS					flow	4x LOOP NUTS + SAL + Ba + 0.18			
06	"	CTD	0703	Bo	19/20	55 59 550	135 53 287	GPS	1967	1000	10	Loop		+ PH ₁ + CALIB 1000M			
06	"	CTD	0721	EN	20	55 59 524	135 53 388	GPS				CTD HYDRO CALIB		CALIBRATION BOTTLE			
06	"	CTD	0810	BE	21	55 59 585	136 02 344	GPS			11	Loop	flow	2x LOOP NUT + SAL + Ba + 0.18			
06	"	CTD	0828	Bo	21/22	55 59 615	136 02 525	GPS	2300	1000				+ PH ₁			
06	"	CTD	0841	EN	22	55 59 625	136 02 644	GPS									
06	"	CTD	0924	BE	23	55 59 453	136 10 810	GPS	2234	1000	12	Loop	flow	2x NUT + SAL + Ba + 0.18			
06	"	CTD	0941	Bo	23/24	55 59 448	136 10 821	GPS						+ PH ₁			
06	"	CTD	0953	EN	24	55 59 465	136 10 761	GPS									

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Nov 06 12:55 PST. Fishing line inbound across shelf Good Weather
Wind 4 Kn
CTD casts at the end of each tow after nets recovered.

NOTE

TRANSMISSOMETER CLEANED THOROUGHLY BEFORE THE BEGINNING OF
THIS LINE NOTE A 2% GAIN IN LIGHT TRANSMISSION.

YOU MAY WISH TO TAKE THIS INTO ACCOUNT WHEN PROCESSING THE
PREVIOUS CTD CASTS. (SLOPE)

CALIBRATION		BOTTLE AT 50 M	(WATER WELL MIXED)	
		BOTTLE 5 M ABOVE	PROBE	
THERMOMETER	SNO	READING C°	Probe Reading	(Header File)
	T 577	10.117	} 16 MK	Temp
	T 647	10.133		depth
			10.142	56.3
PRESSURE	SNO	READING Dbars	THERMOMETER S 5 M ABOVE CTD	
	P 209	45.4		

Wind speed 10 Knt

Dixon Entrance to Cape St El (NOAA 16016)

Sea conditions good wind 10 Knt

FISHING INBOUND ACROSS SHELF.

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YEAR				MONTH		SHIP				CRUISE				PAGE		OF	
1997				NOVEMBER		RICKER				9735				3			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
06	New	CTD	2051	BE	25	56 00 114	135 42 585	GPS	1408	1000		13	LOOP	flow	2x LOOP SAMPLES	NUT, SAL, Ba, O ₂ , PH _i	
06	"	CTD	2108	Bo	25/26	56 00 234	135 42 512	GPS								Tow # 11 BONGO 11	
06	"	CTD	2123	EN	26	56 00 413	135 42 434	GPS									
06	"	CTD	2248	BE	27	56 01 351	135 34 392	GPS	879			14				2x LOOP NUT SAL Ba O ₂ PH _i	
06	"	CTD	2301	Bo	27/28	56 01 524	135 34 235	GPS						flow		Tow 12 BONGO 12	
06	"	CTD	2314	EN	28	56 01 651	135 34 099	GPS									
07	"	CTD	0103	BE	29	56 02 985	135 22 806	GPS	325	310		15		flow	2x LOOP NUT SAL Ba O ₂ PH _i		
07	"	CTD	0108	Bo	29/30	56 03 034	135 22 717	GPS									
07	"	CTD	0114	EN	30	56 03 067	135 22 661	GPS						flow		Tow 13 BONGO 13	
07	"	CTD	16:29	BE	31	57 39 961	137 29 964	GPS	2088	1000		16				2x LOOP NUT SAL Ba O ₂ PH _i	
07	"	CTD	1647	Bo	31/32	57 40 139	137 29 990	GPS									
07	"	CTD	17:00	EN	32	57 40 229	137 30 005	GPS						flow			
07	"	CTD	1701	BE	33	57 40 229	137 29 998	GPS								CALIBRATION BOTTLE	
07	"	CTD	1702	Bo	33/34	57 40 251	137 29 997	GPS	2088	55				flow		AT 50 m	
07	"	CTD	1705	EN	34	57 40 267	137 30 021	GPS									
07	"	CTD	1805	BE	35	57 42 093	137 24 624	GPS	1967	1000		17		flow	2x LOOP NUT SAL Ba O ₂ PH _i		
07	"	CTD	1821	Bo	35/36	57 42 346	137 24 700	GPS									
07	"	CTD	1833	EN	36	57 42 452	137 24 690	GPS									

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

NOV 07

10:30 PST

No BONGO Tow WITH Consec# 31 33 and 35

Crane remote control being repaired and it is used for deployment of the BONGO Net.

Should be OK For station Consec # 37

20:51Z Stopped collecting ADCP Data to backup to ZIP

21:01Z Began collecting ADCP Data

* Station Consec # 41 Transmissometer signal, very large drop 15% at 450 metre.

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE		POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE # GROUP #	# OF BOTTLES	INIT	COMMENTS	
07	NEW	CTD	19:41	BE	37	57 45 846	137 19 883	GPS	1367	1000		18				2x LOOP NUT SAL Ba O18 PH1	
07	"	CTD	19:56	Bo	37/38	57 45 981	137 19 841	GPS								Tow 16 BONGO 16	
07	"	CTD	20:11	EN	38	57 46 135	137 19 974	GPS									
07	"	CTD	22:10	BE	39	57 49 066	137 03 788	GPS	400	395		19				4x LOOP NUT SAL Ba O18 PH1	
07	"	CTD	22:16	Bo	39/40	57 49 108	137 03 731	GPS									
07	"	CTD	22:23	EN	40	57 49 171	137 03 735	GPS								Tow 17 BONGO 17	
08	"	CTD	00:00	BE	41	57 52 669	136 54 18	GPS	461	453		20				2x LOOP NUT SAL Ba O18 PH1	
08	"	CTD	00:08	Bo	41/42	57 52 807	136 53 931	GPS								Tow 18 BONGO 18	
08	"	CTD	00:15	EN	42	57 52 855	136 53 936	GPS								Transmissiometer * Note	
08	"	CTD	01:39	BE	43	57 56 434	136 47 823	GPS	158	147		21				2x LOOPS NUT SAL Ba O18 PH1	
08	"	CTD	01:43	Bo	43/44	57 56 469	136 47 743	GPS								2knt current ADCP	
08	"	CTD	01:47	EN	44	57 56 526	136 47 673	GPS									
08	"	CTD	03:44	BE	45	57 58 333	136 43 464	GPS				22				2x LOOPS NUT SAL Ba O18 PH1	
08	"	CTD	03:47	Bo	45/46	57 58 308	136 43 514	GPS								Big trans signal 12%	
08	"	CTD	03:49	EN	46	57 58 297	136 43 526	GPS								Tow 19 BONGO 19	
08	"	CTD	10:19	BE	47	57 29 575	138 11 083	GPS				23				2 NUT SAL Ba O18 PH1	
08	"	CTD	10:33	Bo	47/48	57 29 646	138 11 050	GPS									
08	"	CTD	10:47	EN	48	57 29 697	138 10 985	GPS									

CAST TYPE -

BOT -

bottle cast

CTD -

cid

MOR -

mooring

ROS -

rosette

NET -

net haul

DRF -

drifter

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

BO -

bottom time of cast

EN -

end of cast

DE -

deployment time

MR -

messenger release

RE -

recover mooring

POSITION CODE -

RAD -

GLOBAL

LOR -

LORAN

NOV 8
08:00 PST Wind 45 Knot Sea 5m will try CTD
No fishing Today

About the limit of CTD work in the chain area
Not enough headroom on platform to handle the CTD probe during recovery and deployment without sustaining damage. (To your head)!!

12:00 PST Wind 50 Kn. Sea 10 metre Move to far day no work.

16:00 PST Wind 50-55 Kn still Have to no fishing or CTD stations.
Looks like a wrap for the day. weather should get better
Tomorrow

NOV 09 11:00 PST Wind 45-55 Kn Sea 20-30 feet no work today

Move to on a SW course. Traveled approx 70 miles SW since
yesterday 0600 8 NOV. Ship will try a north west track tomorrow
and head for Kodiak

NOV 10
0600 PST Changed to North west course wind down to 10 Kn

0800 PST CTD station to 1000 m moderate swell 2-3 metre.

CALIBRATION
#26
CON #55

T577 8.829
T647 8.851
P209 44.0

PROBE TEMP = 8.860
" RATIO = 0.80691
SALINITY = 32.479

BOTTLE 5M ABOVE PROBE

DAILY LOG

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YEAR				MONTH		SHIP			CRUISE				PAGE 5 OF		
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE		LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
CHEMISTRY															
08	NEW	CTD	1609	BE	49	57 13 873	139 10 230	GPS	3600	1000	24			fl	Marginal for CTD
08	"	CTD	1622	Bo	49/50	57 13 915	139 09 768	GPS							2x NUT SAL Ba 0.8 PH.
08	"	CTD	1643	EN	50	57 13 967	139 09 587	GPS							
10	"	CTD	16:29	BE	51	56 12 .8	139 44 .5		3700	1000	25			flw	2x LOOP NUT SAL Ba 0.8 PH.
10	"	CTD	16:51	Bo	51/52	56 13 02	139 44 33								Tow 21 Bongo 21
10	"	CTD	17:06	EN	52	56 13 09	139 44 24								
10	"	CTD	22:00	BE	53	56 25 89	140 41 46		3800	1000	26			flw	2x LOOP NUT SAL Ba 0.8 PH.
10	"	CTD	2220	Bo	53/54	56 25 75	140 41 20								
10	"	CTD	2239	EN	54	56 25 077	140 41 068								Tow 22 Bongo 22
10	"	CTD	22:41	BE	57	56 25 635	140 41 068								
10	"	CTD	2243	Bo	57/58	56 25 631	140 41 063			50	26	TEMP SAL	flw		CALIBRATION SAMPLE 50m
10	"	CTD	2246	EN	58	56 25 617	140 41 057								
11	"	CTD	0348	BE	59	56 34 237	141 28 263		3800	1000	27				2x NUT SAL Ba 0.8 PH.
11	"	CTD	0409	Bo	59/60	56 34 327	141 28 239							fl	Tow 23, Bongo
11	"	CTD	0423	En	60	56 34 430	141 28 275								
11	"	CTD	0810	BE	61	56 39 236	142 21 577		4000	1000	28			flw	2x NUT SAL Ba 0.8 PH.
11	"	CTD	0829	Bo	61/62	56 39 033	142 21 174								
11	"	CTD	0845	En	62	56 38 889	142 20 949								

Computer crash.
No file 55 and 56

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring
ROS - rosette
NET - net haul
DRF - drifter
USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast
DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Rock = 413 2800

Note

NOV 10

Computer crash at Cow # 55-56
count manually 56

56 not used as file incremented file

NOV 11

Transmissometer trace noisy checked connections, all are OK
do not know the reason for noise. Do not have a spare to try another trans
or the means to fix the problem. I think the noise can be filtered out
at IOS. Mean values look OK

The very broad trace of transmissometer in the first 70 m? Bongo tow cups
are full of a brown algae type substance.

NOV 12

01:22 PST Sea dac lock up will reset after cast #72

No Sal or Temp data OK on the Server

02:15 PST Server OK closed client Alfa and restarted Seadac
Data now OK

Note IF Speed and Nav data does not update ≈ 6 sec the
Alfa is locked up.

(Note see 07/07)

The Alfa computer locks up two or three times per day.
IF you stop receiving data (MetNav menu) then restart again data echoes the
server OK.

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OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		NOVEMBER		RICKER		9735		6						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE # GROUP	# OF BOTTLES	INIT	COMMENTS
11	NEW	CTD	12:43	BE	63	56 42 45	143 13.31	GPS	3800	1000	29		Sm	2x ^{LOOPS} NUT SAL Ba 0.8 PH
11	"	CTD	1304	Bo	63/64	56 42 32	143 12.87	GPS						
11	"	CTD	13:36	EN	64	56 42 23	143 14 53	GPS						SCREW-UP on UPGAST. HIT AIT TAB INSTEAD OF AIT 5. CONS #64 NOT CLOSED.
11	"	CTD	1659	BE	65	56 42 698	144 08 298	GPS					flow	4x NUT SAL Ba 0.8 PH
11	"	CTD	1716	Bo	65/66	56 42 846	144 08 047	GPS	4000	1000	30			Tow 24 No Bongo.
11	"	CTD	17:30	EN	66	56 43 004	144 07 877	GPS						
11	"	CTD	21:37	BE	67	56 47 087	145 04 918	GPS	4000	1000	31		flow	Tow 25 ✓ Bongo 25
11	"	CTD	2156	Bo	67/68	56 47 278	145 05 373	GPS						2x NUT SAL Ba 0.8 PH
11	"	CTD	2210	EN	68	56 47 442	145 05 690	GPS						Noises trans. signal
12	"	CTD	0339	BE	69	56 50 017	145 52 662	GPS			32		flow	2x ^{LOOP} NUT SAL Ba 0.8 PH
12	"	CTD	0358	Bo	69/70	56 50 005	145 52 351	GPS	4000	1000				Tow 26 ✓ Bongo 26
12	"	CTD	0412	EN	70	56 50 162	145 52 177	GPS						
12	"	CTD	0901	BE	71	56 37 605	146 56 564	GPS			33		flow	2x NUT SAL Ba 0.8 PH
12	"	CTD	0917	Bo	71/72	56 37 487	146 56 660	GPS	3800					
12	"	CTD	0931	EN	72	56 37 484	146 56 554	GPS						(FIXED) ✓ 3L Seadac lock up
12	"	CTD	1346	BE	73	56 24 992	148 00 069	GPS	4200		34		flow	2x NUT SAL Ba 0.8 PH
12	"	CTD	1403	Bo	73/74	56 24 810	147 59 960	GPS		1000				Tow 27 Bongo 27
12	"	CTD	14:17	EN	74	56 24 692	147 59 808	GPS						

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Nov 12

START OF CROSS SHELF FISHING LINE

06:00 PST

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE	OF
														7	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE # GROUP	# OF BOTTLES	INIT	CHEMISTRY	
12	NEW	CTD	16:56	BE	75	56 19.353	148 17.232	GPS			35	3		2x	NUT SAL Ba 0.8 PH.
12	"	CTD	17:14	BO	75/76	56 29.352	148 17.253	GPS	4200	1000				Tow 28	Bongo 28
12	"	CTD	17:24	EN	76	56 29.366	148 17.266	GPS							
12	"	CTD	19:36	BE	77	56 33.94	148 33.85	GPS	4200	1000	36.	3		2x	NUT SAL Ba 0.8 PH.
12	"	CTD	19:54	BO	77/78	56 33.891	148 33.672	GPS						Tow 29	Bongo 29
12	"	CTD	20:06	EN	78	56 33.969	148 33.572	GPS							
12	"	CTD	23:29	BE	79	56 38.679	148 48.913	GPS	4200	1000	37	3		2x	NUT SAL Ba 0.8 PH.
12	"	CTD	23:47	BO	79/80	56 38.624	148 48.599	GPS						Tow 30	Bongo 30
13	"	CTD	00:01	EN	80	56 38.591	148 48.400	GPS							
13	"	CTD	03:46	BE	81	56 45.318	149 09.733	GPS	4200	1000	38	3		4x	NUT SAL Ba 0.8 PH.
13	"	CTD	04:23	BO	81/82	56 45.171	149 09.736	GPS							
13	"	CTD	04:18	EN	82	56 45.107	149 09.692	GPS							
13	"	CTD	05:17	BE	83	56 48.032	149 22.937	GPS	3800	1000	39	3		4x	NUT SAL Ba 0.8 PH.
13	"	CTD	05:35	BO	83/84	56 47.822	149 23.265	GPS							
13	"	CTD	05:52	EN	84	56 47.697	149 23.487	GPS							
13	"	CTD	07:03	BE	85	56 52.698	149 38.885	GPS	3800		40	3		2x	NUT SAL Ba 0.8 PH.
13	"	CTD	07:20	BO	85/86	56 52.763	149 38.974	GPS		1000					
13	"	CTD	07:34	EN	86	56 52.736	149 38.077	GPS							

CAST TYPE -
CTD -
MOR -

ROS -
NET -
DRF -

USW - sea water loop

TIME CODE -

BE -
BO -
EN -

DE -
MR -
RE -

POSITION CODE -

RAD -
GPS -
LOR -

RADAR
GLOBAL
LORAN

JOHN MORRIS

→ Do you want 0.8 Ba Duplicates? to

Duplicates taken John here
Sample Station group 40

11:45

Leave station

going off watch (SL)

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP					CRUISE				PAGE	OF
														8	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
13	NEW	CTD	9:02	BE	87	56 57.160	149 55.425	GPS	1530	1000			Juanes	2x NUT SAL Ba O18 PH1	
13	"	CTD	9:21	Bo	87/88	56 57.434	149 55.806	GPS			41				
13	"	CTD	9:36	EN	88	56 57.577	149 55.994	GPS							
13	"	CTD	10:50	BE	89	57 01.452	150 11.846	GPS	1180-1328	1000				2x near SAL Ba O18 PH1	
13	"	CTD	11:05	Bo	89/90	57 01 459	150 12 376	GPS			42		Eman		
13	"	CTD	11:29	EN	90	57 01 452	150 12 967	GPS							
13	"	CTD	1223	BE	91	57 05 922	150 28 368	GPS	1600	1000				2x NUT SAL Ba O18 PH1	
13	"	CTD	1240	Bo	91/92	57 05 820	150 28 768	GPS			43		Eman		
13	"	CTD	1255	EN	92	57 05 838	150 29 060	GPS							
13	"	CTD	1359	BE	93	57 10 096	150 44 972	GPS	1010	940				2x NUT SAL Ba O18 PH1	
13	"	CTD	1415	Bo	93/94	57 09 977	150 45 231	GPS			44		Eman		
13	"	CTD	1430	EN	94	57 09 850	150 45 500	GPS							
13	"	CTD	1504	BE	95	57 12 527	150 52 564	GPS							
13	"	CTD	1512	Bo	95/96	57 12 463	150 52 758	GPS	359	355	45		Juanes	2x NUT sal Ba O18 PH1	
13	"	CTD	1518 1818	EN	96	57 12 447	150 52 899	GPS						Tow 32 BONGO 32	
13	"	CTD	1709	BE	97	57 15 044	151 00 450	GPS	122	120					
13	"	CTD	17:14	Bo	97/98	57 15 059	151 00 615	GPS			46		Juanes	2x NUT sal Ba O18 PH1	
13	"	CTD	17:16	EN	98	57 15 065	151 00 692	GPS						Tow 33 BONGO 33	

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

mooring

ROS -

rosette

NET -

net haul

DRF -

drifter

USW -

sea water loop

TIME CODE -

BE -

BO -

EN -

beginning time of cast

bottom time of cast

end of cast

DE -

MR -

RE -

deployment time

messenger release

recover mooring

POSITION CODE -

RAD -

GPS -

LOR -

RADAR

GLOBAL

LORAN

Note

Pressure CTD = + 3.5 Dbaw on deck Temp 4m = 6°C

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE			PAGE		OF		
1997		NOVEMBER			RICKER		9735			9				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
13	NEW	CTD	1844	BE	99	57 16 989	151 08 257	GPS	90	85	47		flow	CHEMISTRY 2x ^{LOOPS} NUT SAL Ba O.8 Phi
13	"	CTD	1847	Bo	99/100	57 17 051	151 08 478	GPS						
13	"	CTD	1849	EN	100	57 17 051	151 08 526	GPS						Tow 34 Bongo 34
13	"	CTD	2051	BE	101	57 18 910	151 16 997	GPS	144	138			flow	
13	"	CTD	2056	Bo	101/102	57 18 985	151 17 204	GPS			48			2x ^{LOOPS} NUT SAL Ba O.8 Phi
13	"	CTD	2059	EN	102	57 19 029	151 17 267	GPS						Tow 35 Bongo 35
13	"	CTD	23:21	BE	103	57 21 075	151 25 394	GPS					flow	
13	"	CTD	23:23	Bo	103/104	57 21 055	151 25 469	GPS	146	140	49			2x ^{LOOPS} NUT SAL Ba O.8 Phi
13	"	CTD	23:30	EN	104	57 21 048	151 25 499	GPS						
14	"	CTD	0207	BE	105	57 23 469	151 33 891	GPS					flow	2x ^{LOOPS} NUT SAL Ba O.8 Phi
14	"	CTD	0209	Bo	105/106	57 23 367	151 33 918	GPS			50			
14	"	CTD	02:11	EN	106	57 23 332	151 33 948	GPS						
14	"	CTD	0438	BE	107	57 25 779	151 42 118	GPS	62	55			flow	
14	"	CTD	0440	Bo	107/108	57 25 692	151 42 225	GPS			51			2x ^{LOOPS} NUT SAL Ba O.8 Phi
14	"	CTD	0442	EN	108	57 25 658	151 42 259	GPS						
14	"	CTD	0528	BE	109	57 28 162	151 50 775	GPS					flow	2x ^{LOOPS} NUT SAL Ba O.8 Phi
14	"	CTD	0530	Bo	109/110	57 28 096	151 50 942	GPS			52			
14	"	CTD	0532	EN	110	57 28 078	151 50 996	GPS						

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

NOV 14

12:39 PST

Data lock up on server client in Acoustics Lab

Remedy

Close SeaDac Reopen client SeaDac and set up Views for Sea Temperature, salinity

The lock up is not the server, but the client. Score

NOV 14

No CTD stations today Bongo stations are being done with each fishing tow

PST NOV 13	1826	57.22.3	151.33.0
PST NOV 14	0708	57.09.7	150.43.8
PST NOV 14	0855	57.04.9	150.25.8
PST NOV 14	1043	57.01.4	150.10.6
PST NOV 14	12:16		

Tow	36	No Bongo
Tow	37	
Tow	38	
Tow	39	Bongo 39
Tow	40	Bongo 40

NOV 15

		CALIBRATION BOTTLE		x 40 M		# 54	
PRESSURE	2099	30.6	Dbars	Probe	INFO	(Header File)	
Temp	5.77	8.346		Pressure	@ depth	40.5	
Temp	6.47	8.364	ΔC° 18 MK	Temp	@ depth	8.379	
				Ratio	@ depth	0.79423	
				SALINITY	@ depth	32.3541	

Bottle 5m above CTD probe pressure sensor.

NOV 15

0731

PST

Server down in

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997		MONTH NOVEMBER			SHIP RICKER				CRUISE 9135					PAGE 10	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS CHEMISTRY	
14	NEW	CTD	0617	BE	111	57 30 422	151 59 350	GPS	56					2x	NUT SAL Ba O18 PH1
14	"	CTD	0619	Bo	111/112	57 30 410	151 59 505	GPS			53	flow			
14	"	CTD	0621	EN	112	57 30 404	151 59 547	GPS							
15	"	CTD	1402	BE	113	57 15 103	150 32 228	GPS	862	855	54	flow		2x	NUT SAL Ba O18 PH1
15	"	CTD	1417	Bo	113/114	57 15 219	150 32 702	GPS				5m			
15	"	CTD	1430	EN	114	57 15 174	150 32 027	GPS							
15	"	CTD	1432	BE	115	57 15 16	150 33 07	GPS							CALIBRATION BOTTLE
15	"	CTD	1435	Bo	115/116	57 13 15	150 33, 120	GPS	872	40	54	flow		AT ~ 50 m	
15	"	CTD	1437	EN	116	57 15 115	150 33.230	GPS						See Notes	
15	"	CTD	1701	BE	117	57 18 154	150 42 266	GPS							
15	"	CTD	1708	Bo	117/118	57 18 144	150 42 511	GPS	345	333	55	flow		2x	NUTS SAL Ba O18 PH1
15	"	CTD	1713	EN	118	57 18 129	150 42 672	GPS							
19	"	CTD	1847	BE	119	55 35 825	157 35 710	GPS	80	73	56			2x	NUTS SAL Ba O18 PH1
19	"	CTD	1848	Bo	119/120	55 35 825	157 08 710	GPS				flow		Tow 46 Bongo 46	
19	"	CTD	1850	EN	120	55 35 834	157 08 730	GPS							
19	"	CTD	2023	BE	121	55 31 886	157 05 137	GPS	87		57			2x	NUT SAL Ba O18 PH1
19	"	CTD	2027	Bo	121/122	55 31 886	157 05 141	GPS		81		flow		Tow 47 Bongo 47	
19	"	CTD	2028	EN	122	55 31 910	157 05 092	GPS							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

↓
SALINITY (PSU)

Sea TEMPERATURE (°C)

8BEZ1 RAW MEX

To Be added to Met now set up Ricker.mnu

SEADAC UP AT 10:20 PST
57 23 99 151 01 62

NOV 15

Tried to use ALPHA on the Server for CDAC logging from
Thermosalinograph but I could not get it to see the CDAC module.
Restarted the ERGO Touch Computer in the forward Machinery space.
Screen is very hard to see but it still works as the server.
logging to file 973SHS15.BIN NOV 15
Alpha station is operating OK as a client John Howe

COAST GAARD Base Kodiak

Depart Kodiak 0800 PST 18 November

Restart Sea water loop. Set up SeaBird Thermosalinograph

Start new log file 973SHS16.BIN Start of data collection 10:00 PST

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH NOV			SHIP RICKER			CRUISE 9735			PAGE 11 OF		
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
19	NEW	CTD	2212	BE	123	55 26 296	157 00 196	GPS			58		flow	2x NUT SAL Ba OIB Phy
19	"	CTD	2214	Bo	123/124	55 26 295	157 00 296	GPS	89					
19	"	CTD	2216	EN	124	55 26 296	157 00 224	GPS						BONGO 48 Tow 48
20	"	CTD	0006	BE	125	55 21 223	156 55 382	GPS						2x NUT SAL Ba OIB Phy
20	"	CTD	0008	Bo	125/126	55 21 271	156 55 458	GPS	92		59		flow	
20	"	CTD	0009	EN	126	55 21 28	156 55 46	GPS		89				BONGO 48 Tow 48
20	"	CTD	0239	BE	127	55 12 961	156 50 495	GPS						
20	"	CTD	0242	Bo	127/128	55 12 996	156 50 548	GPS	118	112	60		flow	2x NUT SAL Ba OIB Phy
20	"	CTD	0244	EN	128	55 12 998	156 50 589	GPS						
20	"	CTD	0425	BE	129	55 06 . 69	156 46 . 32	GPS						2x NUT SAL Ba OIB Phy
20	"	CTD	0437	Bo	129/130	55 06 . 47	156 46 . 73	GPS	480	455	61		Wavy	
20	"	CTD	0448	EN	130	55 06 424	156 47 032	GPS						
20	"	CTD	0534	BE	131	55 02 . 33	156 39 97	GPS						2x NUT SAL Ba OIB Phy
20	"	CTD	0549	Bo	131/132	55 02 164	156 40 302	GPS	1270	1000	62		Wavy	
20	"	CTD	0606	EN	132	55 02 020	156 40 604	GPS						
20	"	CTD	0715	BE	133	54 56 163	156 35 449	GPS						
20	"	CTD	0731	Bo	133/134	54 56 163	156 35 464	GPS	1600m	1000	63		Wavy	2x NUT SAL Ba OIB Phy
20	"	CTD	0747	EN	134	54 56 130	156 35 450	GPS						

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

01:50 PST 20 NOV ALPHA readout from main server locked up
closed program. Restart computer is now updating OK

19 November → The ship changed its clocks to Alaska time
(24:00 PST) (back 1 hour)

I will continue to log in PST and UTC.

138 CALIBRATION BOTTLE at ~ 1000m 5M ABOVE CTD Pressure sensor

NOTE Upcast started 6 min after messenger drop.
40° wine angle depth was 953 after 5 min

Pressure	# 2099	933.6 Dbar
Temp #1	577	2.975
Temp #2	647	2.994

ΔT = 19 MK

Probe at depth	(Header File)
Temp 3.007	2 thermometers depth
Sal 34.359	2 transducers depth
Ratio 0.73549	2 thermometers depth
Pressure.	920.83

NOV 22 ANCHOR AT BAY

Depart NOV 23 1030 PST

Restart Thermosalinograph at 10:55 PST

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH NOV			SHIP RICKER			CRUISE 9735			PAGE 12 OF		
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
20	NEW	CTD	0848	BE	135	54 51 451	156 31 894	GPS		1000			flow	2x Nut Sal Ba O ₂ Ph
20	"	CTD	0906	Bo	135/136	54 51 092	156 32 101	GPS	1750		64			
20	"	CTD	0919	EN	136	54 50 837	156 32 322	GPS						
20	"	CTD	10:06	BE	137	54 47 299	156 28 298	GPS						
20	"	CTD	10:23	Bo	137/138	54 46 877	156 28 389	GPS	2500	1000	65		flow	2x NUT SAL Ba O ₂ Ph.
20	"	CTD	1041	EN	138	54 46 577	156 28 211	GPS			65/1000			BOTTLE CALIBRATION 1000 M
20	"	CTD	11:42	BE	139	54 41 978	156 23 697	GPS						
20	"	CTD	11:56	Bo	139/140	54 41 777	156 23 620	GPS	3000	1000	66		flow	2x NUT SAL Ba O ₂ Ph.
20	"	CTD	12:06	EN	140	54 41 608	156 23 604	GPS						
23	"	CTD	22:02	Bo	141	55 19 008	158 50 498	GPS						
23	"	CTD	2206	Bo	141/142	55 18 875	158 50 581	GPS	184	180	67		flow	2x NUT SAL Ba O ₂ Ph.
23	"	CTD	2209	EN	142	55 18 865	158 50 588	GPS						TOW 58 BONGO 58
23	"	CTD	23:38	BE	143	55 14 756	158 44 277	GPS						
23	"	CTD	23:43	Bo	143/144	55 14 722	158 44 372	GPS	196	190	68		flow	2x NUT SAL Ba O ₂ Ph.
23	"	CTD	2345	EN	144	55 14 725	158 44 361	GPS						
24	"	CTD	00:28	BE	145	55 10 934	158 38 004	GPS						
24	"	CTD	00:35	Bo	145/146	55 10 871	158 38 112	GPS	223	220	69		flow	2x NUT SAL Ba O ₂ Ph.
24	"	CTD	00:38	EN	146	55 10 837	158 38 131	GPS						

CAST TYPE -

BOT - bottle cast
CTD - ctd
MOR - mooringROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE -

BE - beginning time of cast
BO - bottom time of cast
EN - end of castDE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

23 NOVEMBER

141/142 LARGE Bio MASS at 100-150 m Trans % signal 65%

15:30 PST

This also shows up very well on 38 KHz sounder.

Fishing Tow # 58 yielded large amount of jelly fish (surface tow)

Many balls of fish? close to bottom (Bottom 30 metres.)

No fish caught in the net Tow # 58.

Weather very good wind 5-10 knots low westerly swell

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		NOV		W.E. RICKER		9735		13						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
24	NEW	CTD	0110	BE	147	55 08 427	158 32 625	GPS	179				flow	CHEMISTRY 2x NUT SAL Ba O18 PH1
24	"	CTD	0117	Bo	147/148	55 08 325	158 32 616	GPS		172	70			59 tow BONGO 59
24	"	CTD	0119	EN	148	55 08 302	158 32 662	GPS						
24	"	CTD	0245	BE	149	55 04 197	158 26 185	GPS					flow	
24	"	CTD	0250	Bo	149/150	55 04 133	158 26 201	GPS	207		71			2x NUT Sal Ba O18 PH1
24	"	CTD	0252	EN	150	55 04 095	158 26 263	GPS						
24	"	CTD	0328	BE	151	55 01 169	158 20 905	GPS					Em	
24	"	CTD	0333	Bo	151/152	55 01 134	158 20 940	GPS	181	178	72			2x NUT Sal Ba O18 PH1
24	"	CTD	0335	EN	152	55 01 144	158 20 969	GPS						
24	"	CTD	0526	BE	153	54 57 093	158 08 503	GPS	149	135			Em	
24	"	CTD	0532	Bo	153/154	54 57 209	158 08 455	GPS			73			2x NUT Sal Ba O18 PH1
24	"	CTD	0538	EN	154	54 57 230	158 08 609	GPS						Tow 60 Bongo 60
24	"	CTD	0612	BE	155	54 54 039	158 05 183	GPS	96	87			Em	
24	"	CTD	0616	Bo	155/156	54 54 158	158 05 198	GPS			74			2x NUT Sal Ba O18 PH1
24	"	CTD	0620	EN	156	54 54 160	158 05 254	GPS						
24	"	CTD	0708	BE	157	54 50 215	158 00 076	GPS	110	100			Em	
24	"	CTD	0712	Bo	157/158	54 50 268	158 00 192	GPS			75			2x NUT Sal Ba O18 PH1
24	"	CTD	0716	EN	158	54 50 256	158 00 319	GPS						

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
dritter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

Sample Note Samplers were taken out of order

Group 78 was used to sample condee # 161/162 cast.

77 used to sample condee # 163/164 cast. Solve here

~~24 NOV~~ 10:53 UTC wind NW 30 Kn sea just breaking on CTD platform. CTD at 1000 m may be marginal for next station

CTD Station is canceled 35 Knot wind large NW swell proceeding to end of transect to wait for weather window. Hope to fish inbound to the coast across shelf.

24 NOV 20:10 UTC Large increase in temperature noted 6° to 11° on Thermosalinograph. Stop to do CTD cast to verify data. Found problem with sea water Pump. Now running see data cast # 166

24 NOV 21:15 UTC Reset computer clock to correct time also re-stored Navigation computer to correct its internal clock to Sat time. Checked using WWV time signal. J.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF		
1997			NOV			W E RICKER			9735			14				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS		
24	NEW	CTD	0805	BE	159	054 45 809	157 53 233	GPS	282	270				CHEMISTRY		
24	"	CTD	0813	BO	159/160	054 45 652	157 43 494	GPS			76		En	2x NUT Sal Ba O18 PH1		
24	"	CTD	0820	EN	160	054 45 490	157 53 750	GPS								
24	"	CTD	0921	BE	161	054 42 692	157 45 513	GTS	1000	990				2x NUT Sal Ba O18 PH1		
24	"	CTD	0940	BO	161/162	054 42 547	157 46 440	GPS			78		flow	THIS IS CORRECT GROUP FOR THIS STATION		
24	"	CTD	0955	EN	162	054 42 403	157 47 001	GPS						Note Sample out of order watch used the wrong group. JL		
24	"	CTD	10:53	BE	163	54 39 106	157 38 197	GPS	1498	1014						
24	"	CTD	11:06	BO	163/164	54 38 924	157 38 618	GPS			77		flow	THIS IS THE CORRECT # FOR THIS STATION		
24	"	CTD	11:20	EN	164	54 38 692	157 38 961	GPS						2x NUT Sal Ba O18 PH1		
24	"	CTD	2021	BE	165	54 31 502	157 24 022	GPS						No FILE 165		
24	"	CTD	2042	BO	166/167	54 31 298	157 25 531	GPS			79		flow	2x NUT Sal Ba O18 PH1		
24	"	CTD	2057	EN	167	54 31 29	157 25									
						Proceed to Dutch Harbour										
29						Leave Dutch Harbour.										— 5 days lost due to weather. —
December																
01	NEW	CTD	1854	BE	168	54 21 721	161 49 557		133							
	"	CTD	1858	BO	168/169	54 21 640	161 49 693				80		flow	2x NUT SAL Ba O18 PH1		
	"	CTD	1900	EN	169	54 21 645	161 49 730							TOW 61 No BONGO		

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

25 November Phone call from David Wolol directing us to proceed to Dutch Harbour to try and pick up western fishing transect.

Weather conditions not good and forecast worse.

Arrival Dutch Harbour: Note small oil tanker that had broken anchor and run aground 10 to 20 000 gallons of oil spilled + death of two crew members. Winds to 90 miles/hour in the bay.

28 Nov Fuel at Dutch Harbour: High winds and snow conditions

29 Nov Leave Port East bound for inside passage winds 50-60 knots

following sea. Anchor over night to shelter from high winds
Anchor dragged in 90 knot winds at approx 1 am 30 Nov
shelter in strait until 11 AM Head East toward Kodiak.

1807-UTC

1 Dec	054	24	102
	161	53	762

Weather has moderated and we are going to try a fishing tow.

Dec 1 1940 UTC Conductivity down trace unstable - J_p trace ok
check for problem?

21:05 UTC Could find no reason for the salinity instability:

Wind and swell continue to drop

Thermosalinograph Temp = 6.3° Sal 31.5

Note *

Cast 174 / 175 Computer crash at 120 metres on the down cast.

22:04:00 UTC Continued on to depth in the view mode. Did not repeat the cast

Use up trace for data fill. fl.

Con # 176/177 CTD to 2000 m to straighten wire on winch drum.
some cross overs at ~ 1500 m.

4 Nutrients taken at this station

CTD taken to 1450 m deck crew are putting filler in gap
in wire on drum to see if spooling can be improved.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		DECEMBER		U.E. RICKER		9735		15						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
											Grout			CHEMISTRY Loop
01	NEW	CTD	1934	BE	170	54 18 950	161 44 523	GPS			81			2x NUT SAL Ba O18 PH
01	"	CTD	1937	Bo	170/171	54 18 982	161 44 477	GPS	122	120				Note bad down trace
01	"	CTD	1940	EN	171	54 18 978	161 44 487	GPS						conductivity: will check for problem
01	"	CTD	2111	BE	172	54 15 275	161 35 232	GPS						
01	"	CTD	2115	Bo	172/173	54 15 294	161 35 350	GPS	108	103	82			2x NUT SAL Ba O18 PH
01	"	CTD	2117	EN	173	54 15 337	161 35 393	GPS						Salinity trace ok this cast
01	"	CTD	2157	BE	174	54 11 941	161 29 235	GPS						See Note *
01	"	CTD	2202	Bo	174/175	54 11 957	161 29 440	GPS			83			2x NUT SAL Ba O18 PH
01	"	CTD	2206	EN	175	54 12 003	161 29 498	GPS	218	216				Computer crash at 1504
02	"	CTD	0427	BE	176	53 54 328	160 52 889	GPS						
02	"	CTD	0452	Bo	176/177	53 54 277	160 53 824	GPS	2475	1430	84			4x NUT SAL Ba O18 PH
02	"	CTD	0523	EN	177	53 54 236	160 54 594	GPS						
02	"	CTD	0606	BE	178	53 57 984	161 01 612	GPS	2800	1000				
02	"	CTD	0622	Bo	178/179	53 58 003	161 02 219	GPS			85			2x NUT SAL Ba O18 PH
02	"	CTD	0634	EN	179	53 57 671	161 02 676	GPS						
02	"	CTD	0718	BE	180	54 01 989	161 08 711	GPS						
02	"	CTD	0734	Bo	180/181	54 01 677	161 09 449	GPS	2100	1000	86			2x NUT SAL Ba O18 PH
02	"	CTD	0748	EN	181	54 01 539	161 09 934	GPS						

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		DECEMBER		W. E. RICKER		97 35		16						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
CHEMISTRY LOOP														
02	NEW	CTD	0826	BE	182	54 05 095	161 15 342	GPS	1700	1000				2x NUT Sal Ba O18 PH1
02	"	CTD	0843	Bo	182/183	54 05 004	161 15 885	GPS			87		flw	
02	"	CTD	0855	EN	183	54 05 108	161 16 219	GPS						
02	"	CTD	0932	BE	184	54 08 384	161 22 385	GPS						
02	"	CTD	0950	Bo	184/185	54 08 520	161 22 990	GPS	1022	1000	88		flw	2x NUT Sal Ba O18 PH1
02	"	CTD	1001	EN	185	54 08 567	161 23 274	GPS						Depth shoaled up to 930 metres during cast.
04	"	CTD	0716	BE	186	58 44 992	152 07 947	GPS						
04	"	CTD	0721	Bo	186/187	58 45 018	152 07 802	GPS	132	130	89		flw	2x NUT Sal Ba O18 PH1
04	"	CTD	0723	EN	187	58 45 012	152 07 756	GPS						
04	"	CTD	0832	BE	188	58 43 570	151 48 969	GPS	170					
04	"	CTD	0835	Bo	188/189	58 43 538	151 48 938	GPS			90		flw	2x NUT Sal Ba O18 PH1
04	"	CTD	0837	EN	189	58 43 520	151 48 952	GPS						
04	"	CTD	0954	BE	190	58 41 984	151 28 889	GPS						
04	"	CTD	0958	Bo	190/191	58 42 027	151 29 112	GPS	175		91			2x NUT Sal Ba O18 PH1
04	"	CTD	1000	EN	191	58 42 076	151 29 189	GPS					flw	
04	"	CTD	1128	BE	192	58 40 120	151 08 500	GPS						
04	"	CTD	1133	Bo	192/193	58 40 056	151 08 557	GPS	196		92		flw	2x NUT Sal Ba O18 PH1
04	"	CTD	1136	EN	193	58 40 039	151 08 624	GPS						

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
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MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

December 04

Wind increasing from SE 20KN at 11:36 UTC

Sea 1 to 2 metres and building.

14:50 UTC Winds 30+ knots taking water over chains
Consec # #197 completed.

Last CTD of outbound leg canceled

Proceeding to Kiack Island to start of Inbound fishing line.

Note Mooring locations off Kiack Island

20:00 UTC Sea water loop pump reprimed
Noticed that time on server clock was not UTC it was
set to Alaska UTC - 9 HOURS

To do: Check back through logs / cross check positions and CTD
profile positions? There have been 3 reboots of server.

FOUND OUT Bridge GPS is changed to ships time when time change is effected
Does not effect the RMC string.

Note Any rough weather and sea water pump loses prime a real problem
with pump being far forward (forward machinery space)

NEMA DATA OUT FROM GPS GLL, RMC, VTG, APB
Time is Sat Time UTC

04:06 UTC Dec 6+L

Wind 15 to 20 kn swell SE 2 metres

Sea water pump loses prime even in this kind of weather.

For open ocean work on the Ricker the saltwater intake should be moved to a more central area of the hull to avoid air locking the pump.

December 06 Program inbound to Cross Sound.

17:21 UTC On route to Cross Sound, weather has improved and the wind has dropped to 10-15 kn.
CTD stations will be attempted every 30 miles as time and weather permits. From Cross Sound along the shelf of Bernoff Island CTD every 10 miles.

Fishing Tows and CTD stations along transect across shelf inbound

Dec 6 17:15 UTC Switched over sea water sampling pumps to see if air lock problem can be improved.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		DECEMBER		W.E. RICKER		9735		17		OF				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
04	NEW	CTD	1259	BE	194	58 38 734	150 49 373	GPS	203	200	93	flow		CHEMISTRY LOOPS
04	"	CTD	1303	Bo	194/195	58 38 755	150 49 511	GPS						2x NUT Sal Ba O ₂ PH ₁
04	"	CTD	1306	EN	195	58 38 755	150 49 533	GPS						
04	"	CTD	1433	BE	196	58 37 865	150 30 887	GPS			94	flow		2x NUT Sal Ba O ₂ PH ₁
04	"	CTD	1437	Bo	196/197	58 37 905	150 30 841	GPS	212	200				
04	"	CTD	1441	EN	197	58 37 936	150 30 851	GPS						
06	"	CTD	1647	BE	198	58 20 180	142 05 537	GPS	2300	1000	95	flow		2x NUT Sal Ba O ₂ PH ₁
06	"	CTD	1702	Bo	198/199	58 20 204	142 05 686	GPS						
06	"	CTD	1714	EN	199	58 20 175	142 05 845	GPS						
06	"	CTD	21:07	BE	200	58 17 006	141 16 171	GPS	2000	1000				2x
06	"	CTD	21:24	Bo	200/201	58 17 017	141 16 693	GPS			96	flow		NUT Sal Ba O ₂ PH ₁
06	"	CTD	21:35	EN	201	58 16 942	141 16 926	GPS						Wind 20-50 kn Hove to after this station
07	"	CTD	17:32	BE	202	58 12 451	139 01 362	GPS						
07	"	CTD	17:40	Bo	202/203	58 12 496	139 01 641	GPS	432	422	97	flow		2x NUT Sal Ba O ₂ PH ₁
07	"	CTD	17:46	EN	203	58 12 52	139 01 95	GPS						
07	"	CTD	19:05	BE	204	58 11 283	138 44 212	GPS			98	flow		2x NUT Sal Ba O ₂ PH ₁
07	"	CTD	19:08	Bo	204/205	58 11 230	138 44 200	GPS	170	160				CALIBRATION SAMPLE
07	"	CTD	19:15	EN	205	58 11 196	138 44 321	GPS						at 2514 UPGAST

CAST TYPE -

BOT - bottle cast
CTD - ctd
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DRF - drifter

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TIME CODE -

BE - beginning time of cast
BO - bottom time of cast
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MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Dec 07 00:22 UTC

Wind SSE 30-50 kn Weather and sea state not good enough
to continue with CTD casts.

Still inbound heading to Cross Strait / Move to 00:53 UTC

Note that the seawater loop is still looking Prime but does not seem as
bad as with other pump. (Pump #2)

Now using Pump #1.

December 07 17:32 UTC Resume CTD's wind 15 kn
inbound to Cross Sound.

December 07 1640 UTC Engineers informed me that the seawater
sampling pump breaker was off. Do not know how long?

CALIBRATION BOTTLE. CTD cast # 205 upcast. SALINITY LABE 9735/98-25M

Bottle placed 5 metres above the CTD

Bottle tripped at approx 35 metre CTD depth
Water very well mixed to 100 metre.

Temp Thermometer

	Reading
T 577	8.981
T 647	8.997
Pressure 2099	27.0 Dbar

CTD PROBE (HEADER FILE)

Sal	Ratio	Temp
31.6353	0.79079	9.009

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH DECEMBER			SHIP W.E. RICKER			CRUISE 9735			PAGE 18 OF		
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD-HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE # GR05P	# OF BOTTLES	INIT	COMMENTS CHEMISTRY
07	NEW	CTD	20:31	BE	206	58 09 750	138 24 875	GPS			99	flow		2x NUT SAL 0.18 Ba PH ₁
07	"	CTD	20:36	Bo	206/207	58 09 662	138 25 045	GPS	157	150				
07	"	CTD	20:39	EN	207	58 09 597	138 25 104	GPS						
07	"	CTD	21:55	BE	208	58 09 574	138 05 005	GPS						2x NUT SAL 0.18 Ba PH ₁
07	"	CTD	21:59	Bo	208/209	58 09 523	138 05 226	GPS	144	140	100	flow		
07	"	CTD	22:01	EN	209	58 09 520	138 05 280	GPS						
07	"	CTD	23:55	BE	210	58 09 252	137 46 625	GPS						2x NUT SAL 0.18 Ba PH ₁
07	"	CTD	23:57	Bo	210/211	58 09 268	137 46 649	GPS	153		101	flow		
08	"	CTD	00:00	EN	211	58 09 265	137 46 694	GPS						
08	"	CTD	01:26	BE	212	58 09 075	137 30 835	GPS						2x NUT SAL 0.18 Ba PH ₁
08	"	CTD	01:29	Bo	212/213	58 09 076	137 30 798	GPS	145	142	102	flow		
08	"	CTD	01:31	EN	213	58 09 079	137 30 776	GPS						
08	"	CTD	03:27	BE	214	58 07 691	137 07 790	GPS						
08	"	CTD	03:29	Bo	214/215	58 07 682	137 07 790	GPS	139	130	103			2x NUT SAL 0.18 Ba PH ₁
08	"	CTD	03:32	EN	215	58 07 666	137 07 777	GPS						
08	"	CTD	04:41	BE	216	58 07 135	136 49 771	GPS						2x
08	"	CTD		Bo	216/217	58 07 139	136 49 769	GPS			104			NUT SAL 0.18 Ba PH ₁
08	"	CTD	04:49	EN	217	58 07 142	136 49 754	GPS						PLUME GLACIAL MELT WATER Transmissometer?

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

DE -

deployment time

POSITION CODE -

RAD -

RADAR

CTD -

ctd

NET -

net haul

BO -

bottom time of cast

MR -

messenger release

GPS -

GLOBAL

MOR -

mooring

DRF -

drifter

EN -

end of cast

RE -

recover mooring

LOR -

LORAN