

CRUISE
NUMBER

9609

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

7 -30 May 1996

VESSEL

J.P. Tully

PROJECT

Line P

Date: 6/6/96 12:59:20 PM
From: BGM
Subject: processing 9609, May 1996 (line P) data
To: Joseph Linguanti

I have just recalibrated transmissometer #192D used on the Rosette with the WOCE CTD.

old value for slope = .00312336 new value = .00325275
old value for offset = .310275 new value = .453942

I do not know when the calibration shifted for this unit. When you do the plots for the data is should be obvious when the calibration shifted.

6096

244 A

Watch Cabin

66

DD

C

100

OFFICE

2

—

1

1

Watch Cabin

1

1

1100

1

1
1

1

1

1

1

10

100

1

100

1

2nd CTD make: _____ model: _____ serial no.: 58483
Temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Conductivity sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: 3000 dB offset: _____
Transmissometer model: 25cm serial no.: 598
coefficients: slope: _____ offset: _____

Winches:

1. make: SULANN model: 329 serial no.: 1483 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: _____

Salinometer: make: BERASAC model: 2410 serial no.: 58879
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 ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Comments: _____

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: _____

Sail Data: for BISHOP

send by ftp to anonymous@plamming10.seos.uvic.ca (Bishop's unix comp.)
CTD/ROS Xmiss data:
also interested in CTD/ROS xmiss data.
TODD MUDGE will contact you
about this.

please check calibration of Rosette XMISS

Transmissometer 192 D

old calibration	slope	.00312336	offset	.310275	Dated	5 Feb. 96
-----------------	-------	-----------	--------	---------	-------	-----------

new calibration	slope	.00325275	offset	.453942	Dated	6 June 96.
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Saeniel Inlet

Station S3

Test cast and samples taken

O₂ Chl DMS CO₂ ALK

datatype.par

Transmissivity

F9.3

Digital IO

F9.0

Temperature: Voltage Reference

F9.1

Temperature: diquartz

F9.3

34 - 21
60 10

60 - 34 = 26

26 - 34 = -8

Cast #2 Station S13

start

1413

bottom

1430

48 37.30 123 29.74

end

1503

48 37.60 123 29.75

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1996		05		TULLY		9609								
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
6	S3	ROS	14:30	EN	2	48 37 30	123 29 74	GPS	215	212	1 - 19	19		Upcast only
7	SF01	Loop	2200		—	48 16 136	123 29 919	GPS						Loop Samples
8	JF02	Loop	0207		—	48 18.00	124 00.00	GPS						Pump Test Bishop
8	JF03	Loop	0445	EN		48 26.99	124 29.85	GPS						Loop Samples
8	SF04	Loop	0710					GPS						Loop Samples
8	MP01	CTD	0947	BE	3	48 34 486	125 29 851	GPS	116					Loop Samples
8	MP01	CTD	0950	Bo	3/4	48 34 458	125 29 988			118	10.595/10.578			Loop Samples taken ^{first before} CTD
8	MP01	CTD	0953	EN	4	48 34 419	125 29 993							10.595 / 10.578
8	MP02	CTD	1244	BE	5	48 35 990	126 00 036		115		10.637/10.625			START CAST
8	MP02	CTD	1248	Bo	5/6	48 35 916	126 00 142			105				@ DEPTH
8	MP02	CTD	1252	EN	6	48 35 743	126 00 222							LOOPS TAKEN / ON DECK
8	MP03	CTD	1440	BE	7	48 37 422	126 20 099	GPS	815		10.630/10.634			LOOPS TAKEN / ON WAY DOWN
8	MP03	CTD	1452	Bo	7/8	48 37 326	126 20 208	↓		838				
8	MP03	CTD	1504	EN	8	48 37.15	126 20.41	GPS						
8	MP04	MOR	1820	EN	—	48 41.246	126 40.233	GPS						FD* DEPLOYED
8	MP04	ROS	2137	BE	9	48 38 96	126 40 05	GPS	1310	107				
8	MP04	ROS	2151	Bo	9/10	48 38 89	126 40 27			124	20-42	23		FOR BIO M. SOON
8	MP04	ROS	2219	EN	10	48 38 83	126 40.75							

CAST TYPE -

BOT -

CTD -

MOR -

bottle cast

ctd

mooring

ROS -

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 cast

DE -

MR -

RE -

deployment time

messenger release

recover mooring

POSITION CODE -

RAD -

GPS -

LOR -

RADAR

GLOBAL

LORAN

8 May 76

local

SAIL CTF sensor 93-4-1 was used not 94-4-1. Wrong coefficients used.

0945 sensor 94-4-1 installed. Temperature agrees with equilibrator temperature.

Remate Temperature coefficients were wrong. They were set at 0, 1, 1, 1. Should be 0, 1, 0, 0.
no signal coming from conductivity sensor. Checked plugs OK. System now giving salinity of 28.3 should read 30.4

Temp	2	green	5	purple	8	grey
Sal	3	light blue	6	brown	9	blue
%T	4	red	7	white	10	light green

Temperature channel very noisy

Removed sensor checked and cleaned plug

checked sensor element No leakage found

try again on next cast if problem persists
change sensor

8 MAY 1900 LOCAL J. BISHOP PUMP CAST TO 1100m
0200 UTC

9 MAY 4:30 AM LOCAL
11:30 UTC J. BISHOP PUMPS ON BOARD

1207 UTC ROS. CAST FOR MUN & T. SOUTER → 700m

10 MAY 0645 LOCAL 1345 UTC FDX RECOVERED

08:13 CTD Winch s/n 1483 (Blue) has serious hydraulic leak.

10 MAY 2335 MP 07 CTD CAST 2 SPARE WINCH

5 sample

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8	MP04	ROS	2300	BE	11	48 39 260	126 40 088	GPS	1303	402	10.754	21		FOR CHEM
8	MP04	ROS	2307	BO	11/12	48 39 293	126 40 101	GPS			43-60			
8	MP04	ROS	2348	EN	12	48 39 111	126 39 694				10.805	See	NOTA	Glichy Salinity
9	MP04	ROS	1207	BE	13	48 38 924	126 39 814	GPS	1320		10.644			Temp sensor the problem.
9	MP04	ROS	1215	BO	13/14	48 38 954	126 39 809	↓		700		23		Time - 1 BOTTLE @ 700m
9	MP04	ROS	1235	EN	14	48 39 032	126 39 860	GPS			10.646			
9	MP04	PAR	1430			48 39 032	126 39 860	GPS		40m				MUN - 22 " @ 5m
9	MP04	GoFlo	1505			48 39 032	126 39 860	GPS		35m	n/a	6		UBC LIGHT CAST.
9	MP04	NET	1700	BE		48 39 032	126 39 860		1320	200				UBC / RIM Go-Flo ^{2,5,10,15,20,30m}
9	MP04	ROS	1956		15	48 39 032	126 39 860	GPS			10.705/10.505			PUMP / Goldblatt / Thibault
9	MP04	ROS	2015	BO	15/16	48 38 975	126 39 778	GPS	1322	1323				
9	MP04	ROS	2054	EN	16	48 39 108	126 39 714	GPS			61-75	15		1 extra bottle trip
9	MP04	Go-Flo	2115			48 39 108	126 39 714	GPS		20m		1		30L Go-Flo
10	MP04	MOR	1345	EN		48° 45.195	126 36.532	GPS						RECOVER FDA
10	MP05	CTD	1642	BE	17	48 41.48	127 09 93		2088		10.655/10.731			
		Loop	1647	EN		48 41.52	127 09.85							
		CTD	1710	BO	17/18	48 41.57	127 09.44			2109				hit bottom
	MP05	CTD	1740	EN	18	48 41.75	127 08.97							

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

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

P06
BRIDGE OBSERVED A CURRENT
OF AROUND 1 KNOT FROM
SW PUSHING SHIP NE

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10	MP06	CTD	2013	BE	19	48 44 584	127 40 039	GPS	2546					Winch change.
	MP06	CTD	2047	BO	19/20	48 45 042	127 39 650	GPS		2564				
	MP06	CTD	2120	EN	20	48 45 464	127 38 996	GPS						
10	MP06	ISW	2115	EN							10.652			Loops
10	MP07	CTD	2337	BE	21	48 46.533	128 10 127	GPS	2510					START CAST
10	MP07	USW	2342	Loops	—	48 46 531	128 10 098	GPS			10.835			Loops TAKEN
11	MP07	CTD	0005	BO	21/22	48 46 506	128 10 208	GPS		2541				@ DEATH
11	MP07	CTD	0032	EN	22	48 46 491	128 10 267	GPS						ON DECK
11	MP08	CTD	0258	BE	23	48 48 946	128 40 072	GPS	2526					START CAST
	MP08	Loop		BE	—	48 48.95	128 40.07			180/.	9.881			fin's CTD/Transmitter
		CTD	0331	BO	23/24	48 49.04	128 39.53							mounted below CTD.
11	MP08	CTD	0403	EN	24	48 48.97	128 39.63							
11	MP09	CTD	0617	BE	25	48 51.34	129 10 23		2362					
		Loop	0620	BE	—						9.734			
		CTD	0650	BO	25/26	48 51.53	129 10.00			2369				
11	MP09	CTD	0714	EN	26	48 51 736	129 10 156							
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop														

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

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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 #	# OF BOTTLES	INIT	COMMENTS
10	MP06	CTD	2013	BE	19	48 44 584	127 40 039	GPS	2546					Winch change.
	MP06	CTD	2047	BO	19/20	48 45 042	127 39 650	GPS		2564				
	MP06	CTD	2120	EN	20	48 45 464	127 38 996	GPS						
10	MP06	USW	2115	EN							10.652			Loops
10	MP07	CTD	2337	BE	21	48 46.533	128 10 127	GPS	2510					START CAST
10	MP07	USW	2342	Loops	—	48 46 531	128 10 098	GPS			10.835			Loops TAKEN
11	MP07	CTD	0005	BO	21/22	48 46 506	128 10 208	GPS		2541				@ DEATH
11	MP07	CTD	0032	EN	22	48 46 491	128 10 267	GPS						ON DECK
11	MP08	CTD	0258	BE	23	48 48 946	128 40 072	GPS	2526					START CAST
	MP08	Loop		BE	—	48 48.95	128 40.07			1801.	9.881			fin's CTD/transducer mounted below CTD.
		CTD	0331	BO	23/24	48 49.04	128 39.53							
11	MP08	CTD	0403	EN	24	48 48.97	128 39.63							
11	MP09	CTD	0617	BE	25	48 51.34	129 10 23		2362					
		Loop	0620	BE	—						9.734			
		CTD	0650	BO	25/26	48 51.53	129 10.00			2369				
11	MP09	CTD	0714	EN	26	48 51 736	129 10 156							
														

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

11 May 96

S/W PUMP DOWN Sat May 11

0930 - 1030h local time

1630h - 1730h UTC

10:39 Local Weather too rough for Rosette casts at MP 12

12 MAY 96

0018 UTC 1718 Loc CTD CAST @ MP 13 TO 1500m

DAILY LOG

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11	MP10	CTD	0924	BE	27	48 53 587	129 40 105	GPS						
11	MP10	SNL	0926			48 53 587	129 40 105				9.192			Loop Samples
11	MP10	CTD	0958	BO	27/28	48 53 549	129 40 004		2645	2640				
11	MP10	CTD	1022	EN	28	48 53 570	129 40 046							upcast
11	MP11	CTD	1227	BE	29	48 55.94	130 10.21	GPS	2759					START CAST
11	MP11	USW	1242	Loops	—	48 56 099	130 10 145	GPS			9.115			Loop Samples
11	MP11	CTD	1303	BO	29/30	48 56 000	130 10 178			2788				@ DEPTH
11	MP11	CTD	1331	EN	30	48 56 135	130 10 088	GPS						on Deck
11	MP12	MOR	1552	RE										morning released.
11	MP12	CTD	1826	BE	31	48 58.06	130 39.54							
11	MP12	Loop	1831			48 58.03	130 39.25				8.662			
11	MP12	CTD	1853	BO	31/32	48 58 025	130 38 570			2000				Wind 40+ K ₁
11	MP12	CTD	1917	EN	32	48 57 523	130 38 460							
12	MP13	CTD	0018	BE	33	49 02 688	131 40 002	GPS	3087					CTD CAST → 1500 m
12	MP13	USW	0026	Loops	—	49 02 723	131 39 795			1502	8.601			Loop Samples
12	MP13	CTD	0035	BO	33/34	49 02 715	131 39 575							@ DEPTH
12	MP13	CTD	0049	EN	34	49 02 680	131 39 510							on Deck

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

12 May

Sediment trap recovery

2150 Deploy Bishop's pumps
13 May
0500 Loc PUMPS ON BOARD

0515 KEN (MUN NET Tow $\rightarrow$ 100 m)

0700 MUN ROSETTE TO 50m BOTTLES @ 15

Go-Flo casts

net hauls.

CT-10

Deep rosette.

→ moved to after rosette.

DAILY LOG

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[illegible]

Computer crash at bottom of Down cast
 Cannot find the down cast file I think it was the alarm (bottom)
 that caused the crash

Note The upcast data is much cleaner than the down cast
 at depth temperature is stable to mk (swell component better coming up)

Note Thermistor #1 has moved high by $.1^{\circ}\text{C}$ after going deep.

All confirmations OK at full depth first Necroform at 400
 I will check the lead to rosette pylon and CTD probe
 After cleaning the thermistors were OK $\$$

Pressure tripped at 2750

T 647 1639
 T 679 1.681

9565
~~145581~~ 183 9385
~~145579~~ 9382
 145580 9383

MAY 13

158105 158107

MAY 14

TO RUN FOR TUCKER TRAWL - ROBERT DID SPLIT HAULS & SCORE NET 8-12 (MIDNIGHT) Loc

0530 Loc MA 17 CTD CAST TO 1500m

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13	MP16	ROS	1933	BE	43	49 16 985	134 40 209	GPS			8.341			Computer crash at depth
13	MP 16	ROS	2036	BO	43/44	49 17 52	134 40 14		3641	3672	95-117	23		CTD ON FOR 20 m before cast
13	MP 16	ROS	2209	EN	44	49 17 06	134 40 08				8.373			
13	MP 16	CTD	2307	BE	45	49 16 623	134 39 875	GPS	-		8.402			CTD TO 3000m
13	MP 16	Loops	2330	USW	-	49 16 557	134 39 830							LOOP SAMPLES
13	MP 16	CTD	2339	BO	45/46	49 16 562	134 39 944		3640					@ DEPTH
14	MP 16	CTD	0007	EN	46	49 16 329	134 40 38			3000	8.415			ON DECK
14	MP 17	CTD	1235	BE	47	49 21 144	135 40 227	GPS	3523					CTD TO 1500m
14	MP 17	Loops	1240	USW	Loops	49 21 185	135 40 339				8.120			LOOP SAMPLES
14	MP 17	CTD	1251	BO	47/48	49 21 253	135 40 351			1502				@ DEPTH
14	MP 17	CTD	1305	EN	48	49 21 253	135 40 359				8.128			ON DECK
14	MP18	CTD	1810	BE	49	49 25.82	136 39.91		3842					
14		Loop	1815	EN		49 25.79	136 39.97				8.023			
14		CTD	1836	BO	49/50	49 25.60	136 40.30			2140				
14	MP18	CTD	1901	EN	50	49 25.52	136 40.54				8.021			

CAST TYPE -

BOT - CTD - MOR -

bottle cast ctd mooring

ROS - 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 cast

DE - MR - RE -

deployment time messenger release recover mooring

POSITION CODE -

RAD - GPS - LOR -

RADAR GLOBAL LORAN

MAY 14/15

CTD @ MP 19 to 2000 m @ 1700 Loc

1745 Loc - Go FLO to 15 m FOR PHIL

22:56 arrive MP 20.

Bongo net hauls

0250 Tucker Trawl cast.

10:17 Updated WOCE CTD Transmissometer cal values for Trans s/n 192 D

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14	MP 19	CTD	2354	BE	51	49 30 000	137 39 762	GPS	3929						
14	MP 19	Loop	2358	USW	—	49 29 979	137 39 794	↓			7.477			Loops OK.	
15	MP 19	CTD	00:15	Bo	51/52	49 29 828	137 39 955			2000					
15	MP 19	CTD	00:35	EN	52	49 29 770	137 40 108							on Deck	
15	MP 20	TJK	0950	BE		49 34 396	138 42 692			Tucker Trawl				Start down @ 09:30	
15	MP 20		10:25	EN											
15		MOR		RE										release Sediment trap trap on board.	
15	MP 20	MOR													
15	MP 20	ROS	1743	BE	53	49 33.59	138 40 49		3965		7.437				
15	MP 20	ROS	1749	Bo	53/54	49 33 59	138 40 46			400	112-134	22		4 bottles for Jennifer	
15	MP 20	ROS	1818	EN	54	49 33 58	138 40 30				7.435				
15	↓	ROS	2003	BE	55	49 34.05	138 39.87				7.545				
15	↓	ROS	2006	Bo	55/56	49 34.05	138 39.91			101.		23			
15	MP 20	ROS	2114	EN	56	49 33.59	138 40.51				7.535				
16	MP 20	ROS	1322	BE	57	49 33.60	138 38.89				7.629			MUN CAST	
16	MP 20	ROS	1325	Bo	57/58	49 33 596	138 38 857			76		23		to 75m	
16	MP 20	ROS	1339	EN	58	49 33 652	138 38 609				7.635			ALL BOTTLES @ 20m	
16	MP 20	PAR	1500			49 33 652	138 38 609			50		—		LIGHT CAST	

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

Cont 59 0 to 2704 db.
60 2735 to 4012 db

30
1.3

96060060.DWN

59 and 60 header files combined

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INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					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	
16	MP20	Go-fro	1535			49 33 652	138 38 609		35M			6		10 L Go-fro's 2m-35m	
16	MP20	NETS	1655			49 33 781	138 38 840		100M			-		NET TOWS (VERTICAL)	
16	MP20	ROS	1923	BE	59	49 33 928	138 39 976		3969	3'	7.719			Computer crash	
16	MP20	ROS	1948	EN	59	4			2704					Start new file at 2758M	
16	MP20	ROS	200101	BE	60	49 33.65	138 39.58							Thermistors and	
16		ROS	2025	BO	60/61	49 33.753	138 39.250			4011	135-156	21		CTD ARE good to	
16	MP20	ROS	2142	EN	61	49 33.37	138 38.93							1 MK @ 1.530° 3500M	
16	MP20	NET	2320	BE		49 34 38	138 40 17			250				Begin Tucker Trawl	
16	MP20	NET	2345	EN										End Tucker Trawl	
	MP20	MOR		DE										Deploy sediment trap	
17	MP21	CTD	0757	BE	62	49 38 008	139 40 081				7568				
17	MP21	CTD	0822	BO	62/63	49 38 227	139 39 875		3962						
17	MP21	CTD	0839	EN	63	49 38 251	139 39 775			2000					
17	MP21	USW	0802	BE		49 38 029	139 40 034							Loops	
17	MP22	CTD	1241	BE	64	49 42 139	140 40 038	GPS	3888		7.363			START CAST	
17	MP 22	USW	1249	USW	-	49 42 243	140 40 010							Loops TAKEN	
17	MP 22	CTD	1317	BO	64/65	49 42 526	140 39 992			2000				@ DEPTH	
17	MP 22	CTD	1352	EN	65	49 42 688	140 39 703							ON DECK	

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		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
17	MP23	CTD	1819	BE	66	49 46.15	141 40.16		4054.		7344			
17	MP23	USW	1824	EN		49 46.21	141 40.19			2002				
17	MP23	CTD	1843	BO	66/67	49 46.33	141 40.16							
17	MP23	CTD	1902	EN	67	49 46 315	141 40 190							
Rosette Pylon Serviced top cleaned and checked for alignment. ✓														
17	MP24	USW	2316	Loops	—	49 50 227	142 40.098	GPS	3991					
17	MP24	CTD	2318	BE	68	49 50 224	142 40 153				7.518			
17	MP24	CTD	2337	BO	68/69	49 50 375	142 40 248			2003				
17	MP24	CTD	2356	EN	69	49 50 497	142 40.312							on Deck
18	MP25	CTD	0403	BE	70	50 00.04	143 36.62	GPS			7.797			
18	MP25	USW	0409	EN		50 00.11	143 36.70							
18	MP25	CTD	0428	BO	70/71	50 00.05	143 36.79			2008				34573
18	MP25	CTD	0450	EN	71	49 59.98	143 37.05							
18	MP35	CTD	0748	BE	72	49 59 979	144 18 281		4152	2007	7.539			
18	MP35	CTD	0813	BO	72/73	50 00 031	144 18 189			2008				
18	MP35	CTD	0834	EN	73	49 59 903	144 18 181							
18	MP35	USW	0757	BE		50 00 069	144 18 196							Loops

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

19 MAY 0200 UTC START I.B., PUMP STATION

1130 UTC J. BISHOPS PUMPS ON BOARD

T 647	3.930
T 679	3.918
P 6346	402.

12:32 digital pressure sensor put on Rosette bottle #10.

Serviced all connectors on WACE CTD cleaned cell.

Temperature shift at 3500 metres. Temp sensor problem.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1996		May		Tully		9609								
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
18	MP26	NET	11:50	BE		49.59.975	145 00 159	GPS		250				Tucker Trawl
18	MP26	NET	12:20	EN		49 50 01	144 58 20							ON DECK
18	MP35	MOR	1633	DE		49 59.845	144 17.876		4151					deploy FDSTAR
	P26	MOR		RE										
19	MP26	ROS	1210	BE	74	49 59 605	144 59 996	✓		1000				
19	MP26	ROS	1227	BO	74/75	49 59 505	145 00 024		4254		157-176	21		
19	MP26	ROS	1305	EN	75	49 59 223	145 00 004	GPS			6.970			ON DECK
19	MP26	ROS	1450	BE	76	50 00 558	145 00 110							MUN ROSSETT To
19	MP26	ROS	1454	BO	76/77	50 00 552	145 00 089			100		23		
19	MP26	ROS	1506	EN	77	50 00 508	145 00 011							
		PAR												left cast.
	MP26	MOR		BE				✓						
	MP26	MOR		EN				GPS						
20	MP26	ROS	0103	BE	78	50 00 03	144 59.94			4313	7.231			Computer error when going
20	MP26	ROS	0157	BO	78/79	50 00.14	144 59.78				177-199	23		to view file OK
20	MP26	ROS	0326	EN	79	50 00.20	144 59.58				7.338			bottle 15 did not close
			0343	BE	80	50 00 219	144 59 542	✓						
CAST TYPE - BOT - bottle cast CTD - rosette NET - sea water loop TIME CODE - BE - beginning time of cast DE - depth														

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

Temperature : Thermistor!

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1996		MONTH May		SHIP		CRUISE 9609		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
20	MP26	CTD	0343	BE	80	50 00.219	144 59.542	GPS						CTD CALIBRATION CAST
20	MP26	CTD	0422	Bo	80/81	50 00.37	144 59.59			3002				
20	MP26	CTD	0456	EN	81	50 00.48	144 59.65							

CTD

File Name, Station, Cast #, Date, Time, Latitude, Longitude, Max Pres

96090082.cln, MP26,	82, 05/20/1996, 08:51,	50.003,	-144.930,	402
96090083.cln, MP26,	83, 05/20/1996, 08:58,	50.002,	-144.937,	401
96090084.cln, MP26,	84, 05/20/1996, 09:05,	50.002,	-144.941,	402
96090085.cln, MP26,	85, 05/20/1996, 09:12,	50.002,	-144.945,	401
96090086.cln, MP26,	86, 05/20/1996, 09:18,	50.002,	-144.949,	401
96090087.cln, MP26,	87, 05/20/1996, 09:24,	50.001,	-144.953,	399
96090088.cln, MP26,	88, 05/20/1996, 09:31,	50.001,	-144.956,	402
96090089.cln, MP26,	89, 05/20/1996, 09:39,	50.001,	-144.963,	401
96090090.cln, MP26,	90, 05/20/1996, 09:46,	50.001,	-144.967,	401
96090091.cln, MP26,	91, 05/20/1996, 09:54,	50.001,	-144.973,	399
96090092.cln, MP26,	92, 05/20/1996, 10:01,	50.001,	-144.977,	402
96090093.cln, MP26,	93, 05/20/1996, 10:08,	50.000,	-144.983,	399
96090094.cln, MP26,	94, 05/20/1996, 10:15,	49.999,	-144.988,	401
96090095.cln, MP26,	95, 05/20/1996, 10:22,	50.000,	-144.992,	399
96090096.cln, MP26,	96, 05/20/1996, 10:29,	49.999,	-144.998,	407
96090097.cln, MP26,	97, 05/20/1996, 10:37,	49.999,	-145.004,	404
96090098.cln, MP26,	98, 05/20/1996, 10:43,	49.998,	-145.008,	405
96090099.cln, MP26,	99, 05/20/1996, 10:50,	49.998,	-145.013,	404
96090100.cln, MP26,	100, 05/20/1996, 10:57,	49.998,	-145.018,	407
96090101.cln, MP26,	101, 05/20/1996, 11:05,	49.998,	-145.023,	406
96090102.cln, MP26,	102, 05/20/1996, 11:11,	49.998,	-145.027,	405
96090103.cln, MP26,	103, 05/20/1996, 11:19,	49.998,	-145.033,	401
96090104.cln, MP26,	104, 05/20/1996, 11:26,	49.999,	-145.038,	406
96090105.cln, MP26,	105, 05/20/1996, 11:34,	49.999,	-145.043,	404
96090106.cln, MP26,	106, 05/20/1996, 11:41,	49.999,	-145.048,	405
96090107.cln, MP26,	107, 05/20/1996, 11:48,	49.998,	-145.053,	402
96090108.cln, MP26,	108, 05/20/1996, 11:55,	49.999,	-145.058,	405
96090109.cln, MP26,	109, 05/20/1996, 12:02,	49.999,	-145.064,	403

CAST TYPE -

BOT -

CTD -

MOR -

t

ctd
mooring

NET -

DRF - net haul
drifter

BO -

EN -

bottom time of cast
end of cast

MR -

RE -

messenger release
recover mooring

POSITION CODE -

RAD -

GPS -

LOR -

RADAR

GLOBAL

LORAN

dark fast by 1 min 48 sec.
YoYo Casts to 4000 ft
east to west line.

Rozette Trans. lens cleaned prior to cont #112.

Bishop's pump system	start down	0742	local
	ends	1646	local.



DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1996		May				9609								
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	MP 26	ROS	1731	BE	110	49 59.71	144 59.79	GPS						
20	MP 26	USW	1825			49 59.89	144 59.97		4254	4325	200-222	23		loops.
20	MP 26	ROS	1835	BO	110/111	49 59 964	144 59 991				7.464			
20	MP 26	ROS	2005	EN	111	50 00.57	145 00.32							
21		ROS	0403	BE	112	49 59.99	144 59.92							loop sample.
	MP 26	ROS	0410	BO	112/113	49 59.96	144 59.97		4253	402	223-240	18		
	MP 26	ROS	0433		113	49 59.88	144 59.88				7.989			
21	MP 26	ROS	0805	BE	114	50 01 153	144 58 309							
	MP 26	ROS	0833	BO	114/115	50 01 329	144 58 106		4249	2000		23		Bio Water samples
	MP 26	ROS	0915	EN	115	50 01 66	144 57 84				7.992			M. Seon.
	MP 26	TUCK	1008	BE		50 00 064	145 00 072							Tucker trawl.
	MP 26	TUCK	1036	EN		49 59 668	145 00 935							Yo-Yo to 100 M
22	MP 26	ROS	0238	BE	116	49 59 869	145 00 197	GPS	4253		7.728			ROSETTE TO 3000 FOR
22	MP 26	ROS	0325	BO	116/117	49 59.41	145 00.53			3008	241-256	16		NELSON SHERRY
22	MP 26	ROS	0425	EN	117	49 59.13	145 00.57				7.642			
	MP 26	CTD		BE	118	refer to printout sheet next page								Tow YOYOCASTS
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE - BE - beginning time of cast														

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

[illegible]

May 22.

10136	oxygen standard	10.02			new 10 ml barrel. 10.025	
V6	.003	V2	.718	.720		.716
	.003		.716	.716		.716 use <u>.718</u>
	.003		.718	.716		.720 .718

22 May 1964 JTC Major power failure on ship. Computer OK (UPS)

Ship had no helm control but weather very good and cast was not aborted. At 50 metres on upcast #151 the computer crashed and had to be rebooted. Files were closed (checked using scan disk)

#151 400 to 39 #152 50 to 0.

Restarted CTD program and continued to finish the cast 50 m to the surface no further problems.

Stopcock on bottle 13 open and bottle was empty. All bottles tripped at the correct depths.

SL

Cast #155 Salinity sensor malfunction. Switching back and forth, temperature steady. conductivity is the problem.

SAIL computer crashed will not Boot.

DAILY LOG

OCEAN PHYSICS

CMT + H0
INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1996		May				9609								
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
22	MP26	Goto	1515			49 57 36 S	144 57 56 W			200 m		12		Biomay 60-Pro's.
22	MP26	Net	16:00	BE						250 m				Tucker Trawl
22	MP26	Net	16:30	EN		49 56 29	144 58 16							end Trawl
22	MP26	ROS	1939	BE	150	49 59 89	144 59 89	GPS			7700			
22	MP26	ROS	1944	BO	150/151	49 59 84	144 59 90	GPS		403	257-274	18		400 to 390 lb
22	MP26	ROS		EN	151					Power failure				Restart Computer
22	MP26	ROS	2007	BE	152	50 00 05	144 59 68	GPS			7742			50 to 0 lb
22	MP26	ROS	2018	EN	152	50 00 26	144 59 85	GPS						See Note
22	MP26	ROS	2235	BE	153	50 00 434	144 59 160	GPS			7.773			MO'S SHALLOW
22	MP26	ROS	2237	BO	153/154	50 00 431	144 59 112			100.		23		ROSETTE
22	MP26	ROS	2253	EN	154	50 00 496	144 58 910				7.023			on Deck
22	MP26	DRF	2300	DE		50 00.641	144 59.002	GPS						AES DRIFTER LAUNCHED.
23		MOR	0145	RE										CLOSE FID* TRAPS.
23		ROS	0324		155	50 06.56	144 21.05		4139					Trans, not working
		ROS	0355		155/156	50 06.65	144 20.92			2000.		22		conductivity N.F.G.
23	MP26	ROS	0425		156	50 06 69	144 20.47				8059			bottle #1 did not close.
														Water for 45 gal drum.

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

ROS - rosette net haul
NET -
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

23 May

low 11:55

SAIL computer working again.

49 39.45 142 16.23

CURRENT @ 50m

140° 155°

.4 to .7 Knts.

Up trace

.5 Knts

@ 1450

@

Current at 50 to 60 metre.

Sw @ .5 Knts

#35 101.0513 -2.02183

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR				MONTH		SHIP				CRUISE				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			
23	MP26	ROS	0528		157	50 06.90	144 17.47				7835			Water for 45 gal drum			
		ROS	0600		157/158	50 07.05	144 16.69			2005		23					
		ROS	0713		158	50 06.74	144 13.35										
24	MP19	BOT	1508			49 29.97	137 40.14		3931	15		1		GoFlo 30 litre @ 15m			
	MP18	BOT								15		1		GoFlo 30 litre			
	MP17	BOT								15				GoFlo Bottle			
25	MP15	CTD	0924	BE	159	49 11.85	133 40 16		3600	1200	9.331						
25	MP15	CTD	0945	BO	159/160	49 11 968	133 40 374				9.308			Jim Bishop CTD			
25	MP15	CTD	1003	EN	160	49 12 086	133 40 516				Some error lights			on WIRE CAL CHECK			
25	MP14	CTD	1435	BE	161	49 07 427	132 39 970	GPS			9.162			CTD to 1500m			
25	MP14	CTD	1451	BO	161/162	49 07 423	132 39 955	↓			9.168			lots of error light			
25	MP14	CTD	1528	EN	162	49 07.18	132 36.96	↓									
25	MP13	CTD	1915	BE	163	49 02 734	131 39 906				9.502						
25	MP13	CTD	1935	BO	163/164	49 02 697	131 39 692				9.533						
25	MP13	CTD	1953	EN	164	49 02.63	131 39.58										
26	MP12	ROS	0225	BE	165	48 58.17	130 40 14	GPS			9.767			Mo's ROSETTE → 100m			
26	MP12	ROS	0227	BO	165/166	48 58 132	130 40 134	↓	2939.	99.	9.795	23					
26	MP12	ROS	0246	EN	166	48 58 023	130 40 314							✓			

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

0820

Brake's pump system start putting on pumps.

0955

pumps turned on.

All temperature sensors tracking at depth to 1 MK

CTD_010

✓

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1996		May		J.P. Tully		9609								
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
26	MP12	ROS	1740	BE	167	48 58.18	130 39.79				9.749			
		ROS	1747	BO	167/168	48 58.16	130 39.81		3238	416	275-292	18		
		ROS	1810	EN	168	48 58.15	130 39.84				9.750			
26	MP12	NET	2000	BE						250				Tucker Trawl.
	MP12	ROS	2151	BE	169	48 58 21	130 40 18				9.776			
		ROS	2233	BO	169/170	48 58 311	130 40 054		3238	3201	293-302	21		#301 & 303 no good Rosette failure!
		ROS	2352	EN	170	48 58 78	130 40 76				9.824			
27	MP12	CTD	0002	BE	171	48 59 290	130 41 310	GPS	3238		9.838			CTD ONLY
27	MP12	CTD	0029	BO	171/172	48 59 350	130 41 481	↓		2500				
27	MP12	CTD	0052	EN	172	48 59 439	130 41 446	↓			9.842			
27	MP12	ROS	0159	BE	173	48 58 486	130 40 489	GPS	3240		9.834			ROSSETTE TO 1250m
27	MP12	ROS	0217	BO	173/174	48 58 507	130 40 567	↓		1253	301-313	21		(REPEAT OF 171/172 DEEP
27	MP12	ROS	0247	EN	174	48 58 602	130 40 670	↓			9.844			CAST)
27	MP12	NET	0850	BE		48 58 056	130 39 773			250				TUCKER TRAWL
27	MP12	NET	09:40	EN										Trawl on board.
27	TZ01	ROS	1345	BE	175	48 53 605	129 40 203	GPS			10090			1 ST TRANSITION ZONE CAST
27	NEWS	ROS	1349	BO	175/176	48 53 569	129 40 289	↓		100	314-321	8		@ P10
27	NEWS	ROS	1359	EN	176	48 53 544	129 40 431	↓			10083			

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water loop

TIME CODE

BE

bottle

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

YEAR		MONTH				SHIP				CRUISE				PAGE	OF
1996		May								9609					
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	
27	T202	ROS	1859	BE	177	49 32 652	129 39 851	}			10.560				
	T202	ROS	1904	BO	177/178	49 32 659	129 39 851			201	322-328	7.			
	T202	ROS	1916	EN	178	49 32 75	129 40 01				10.561				
27	T203	ROS	2035	BE	179	49 31 546	129 24 320	GPS			11.088				
27	T203	ROS	2040	BO	179/180	49 31 617	129 24 355			203.	329-334	6			
27	T203	ROS	2049	EN	180	49 31 662	129 24 318				11.089				
28	TZ04	ROS	0111	BE	181	48 51 862	129 24 224				10.878				
28	TZ04	ROS	0116	BO	181/182	48 51 956	129 24 313			202.	335-340	8		8 Bottles closed, only six sampled.	
28	TZ04	ROS	0127	EN	182	48 51 777	129 24 284				10.891				
28	TZ05	ROS	0555	BE	183	48 11.79	129 24.32		2683		10.294				
28		ROS	0559	BO	183/184	48 11.81	129 24.33				341-345	6		Bottle 6 closed in the air	
28		ROS	0610	EN	184	48 11.93	129 24.29				10.291				
	TZ06	ROS	0728	BE	185	48 10 61	129 9 33				10.362				
	TZ06	ROS	0734	BO	185/186	48 10 517	129 09 311				346-351	6			
	TZ06	ROS	0742	EN	186	48 10 528	129 09 225				10.357				
28	TZ07	ROS	1341	BE	187	48 51 300	129 09 885	GPS			10.564	6		Pg	
28	TZ07	ROS	1345	BO	187/188	48 51 324	129 09 936				352-357	6			
29	TZ07	ROS	1356	EN	188	48 51 468	129 10 175	V			10.554				

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

Bad connection on 2 pin plug top of rosette
extension plug. Cleaned and reconnected

It was causing a premature power fail (glitch on surface.)

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

[illegible]

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TIME CODE -

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POSITION CODE -

RAD -	RADAR
GPS -	GLOBAL
LOR -	LORAN