

CRUISE
NUMBER

9527

DAILY LOG

INSTITUTE OF OCEAN SCIENCES

OCEAN PHYSICS

DATE

11 to 29 SEPT '95

VESSEL

R.B. YOUNG

PROJECT

SAANICH INLET STUDY

2nd CTD make: Gouldline model: N8707 serial no.: 43,825
Temperature sensor model: 87401 serial no.: 57,149
coefficients: slope: _____ offset: _____
Conductivity sensor model: 87401 serial no.: 46,730
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
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: _____

Salinometer: make: _____ 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 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: _____

YEAR		1995		MONTH		Sept		SHIP		R. B. Young		CRUISE		9527		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					
11	SSc	CTD/Rs		23:26	0001				83m					Downcast $P_0 = 1.9$					
				23:29	0002									Upcast					
12	SSd	CTD/Rs		17:30	0003				26					Test for rosette $P_0 = 0.4$ with scud pylon.					
				17:32	0004									upcast * Test fired all bottles at surface OK ✓					
12	SSd	CTD/Rs		18:07	0005				27					Downcast for keeps! $P_0 = 0.5$					
				18:09	0006						#1 to #4			Upcast for samples					
12	SSc			19:22	0007				80					Downcast $P_0 = 0$					
				19:25	0008						5-12			Upcast for samples					
12	SS			20:01	009				183					Downcast $P_0 = 0.5$					
				20:05	010						13-24			Upcast for samples					
12	SSb			20:44	011				156					Downcast $P_0 = -1.2$					
				20:47	012						25-35			Upcast for samples					
12	SSa			21:24	013				68					Downcast $P_0 = -3.0$					
				21:26	014						36-42			Upcast for samples					

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				
1995		SEPT.		R. B. YOUNG		9527		2		2				
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
14	S9	ROS		17:04	015				165					Downcast $P_0 = -0.5$
				17:08	016						43-54			Upcast $P_0 = -0.4$ All bottle P_{1000}
14	S8			18:11	017				91					Downcast
				18:13	018						55-63			Upcast for samples $P_0 = -0.3$
14	S6			18:52	019				73					Downcast $P_0 = -1.5$
				18:55	020						64-71			Upcast for samples $P_0 = -0.1$ * Salinity quit at 70m.
14	S5			19:24	021				183					Downcast $P_0 = -2.0$
				19:29	022						72-83			Upcast for samples $P_0 = -1.0$
14	S4			20:00	023				213					Downcast $P_0 = -1.0$
				20:05	024						84-95			Upcast for samples $P_0 = -1.3$ Cond cell/ flask 200-iron
14	S3			20:39	025				222					Downcast $P_0 = -1.8$
				20:44	026						96-107			Upcast for samples $P_0 = -0.5$
14	S2			21:20	027				216					Downcast $P_0 = 0.5$
				21:25	028						108-119			Upcast for samples $P_0 = -0.6$
14	S1 *			22:01	029				175					Downcast $P_0 = -0.4$
				22:05	030						120-131			Upcast for samples $P_0 = -1.0$

* Station name entered was "S2" but it should be "S1"!

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT.		R.B. YOUNG		9527		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
15	S8	CTD	16:51		031				93					Downcast, $P_0 = 1$
			16:54		032									Upcast
	S65a		17:10		033				96					Downcast, $P_0 = -1.5$
			17:12		034									Upcast
	S65b		17:22		035				55					Downcast, $P_0 = 0.8$
			17:25		036									Upcast
	S65c		17:33		037				57					Downcast, $P_0 = 0.1$
			17:36		038									Upcast
	S65d		17:43		039				48					Downcast, $P_0 = 0.1$
			17:45		040									Upcast
	S7a		18:18		041				36					Downcast, $P_0 = 0.1$
			18:20		042									Upcast
	S7b		18:28		043				60					Downcast, $P_0 = 0.1$
			18:29		044									Upcast
	S7		19:00		045				87					Downcast, $P_0 = 0.1$
			19:03		046									Upcast
	S7c		19:27		047				42					Downcast, $P_0 = 0.6$
			19:29		048									Upcast

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP				CRUISE				PAGE	OF
1995			SEPT			R.B. YOUNG				9527				4	
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	
15	S6A	CTD	19:47		049				64					Downcast $P_0 = 0.5$	
			19:49		050									Upcast	
	S6B		19:57		051				68					Downcast $P_0 = 1.4$	
			20:00		052									Upcast	
	S6		20:09		053				73					Downcast $P_0 = 1.4$	
			20:11		054									Upcast	
	S6C		20:19		055				16					Downcast $P_0 = 1.2$	
			20:21		056									Upcast	
	S5A		20:41		057				70					Downcast $P_0 = 1.8$	
			20:44		058									Upcast	
	S5B		20:53		059				158					Downcast $P_0 = 2.2$	
			20:57		060									Upcast	
	S5		21:07		061				183					Downcast $P_0 = 2.6$	
			21:10		062									Upcast	
	S5C		21:21		063				80					Downcast $P_0 = 1.9$	
			21:23		064									Upcast	
	S5d		21:32		065				29					Downcast $P_0 = 2.2$	
			21:34		066									Upcast	

CAST TYPE -
CTD -
MOR -

ROS -
NET -
DRF -

USW -

TIME CODE -

BE -
BO -
EN -

DE -
MR -
RE -

POSITION CODE -

RAD -
GPS -
LOR -

RADAR
GLOBAL
LORAN

bottle cast
ctd
mooring

rosette
net haul
drifter

sea water loop

beginning time of cast
bottom time of cast
end of cast

deployment time
messenger release
recover mooring

INSTITUTE OF OCEAN SCIENCES

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

* Downcast file name "S4c" but should be "S4cl".

Sept 18, 1995

- Rosette deck unit not confirming bottle trips, yet the bottles appear to be tripping properly. No mistrips or multiple trips observed.
- CTD (53501) has intermittent problems with conductivity cell. Cause unknown.
- Crew Peter Gamble, Doug Anderson, Darren Tuck + DJS.

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT		R. B. Young		9527		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 #	# OF BOTTLES	INIT	COMMENTS
18	S9	CTD/ROS	17:04	1	077				163		132-143			Downcast, $P_0 = 1.4$
			17:07		078									Upcast for samples $P_0 = 0.3$
	S8		18:03		079				92					Downcast, $P_0 = 0.5$
			18:06		080						144-152			Upcast for samples
	S7		18:57		081				97					Downcast, $P_0 =$
			19:00		082						153-161			Upcast for samples $P_0 = -0.2$
	S6		19:29		083				73					Downcast, $P_0 = 0.4$
			19:31		084						162-169			Upcast for samples
	S5		20:08		085				184					Downcast, $P_0 = 0.7$
			20:12		086						170-181			Upcast for samples
	S4		20:54		087				214					Downcast, $P_0 = -1.0$
			20:59		088						182-193			Upcast for samples, $P_0 =$
	S3		21:35		089				224					Downcast, $P_0 = 0.2$
					090						194-205			Upcast for samples, $P_0 = -0.5$
	S2		22:12		091				211					Downcast, $P_0 = 0.5$
			22:16		092						206-217			Upcast for Samples $P_0 = -1.0$
	S1		22:51		093				148					Downcast, $P_0 = 0.3$
			22:55		094						218-229			Upcast for samples, $P_0 = -0.5$

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

* Curious salinity steps ($0.02 - 0.05 \text{ psu}$) on upcast # 0104 check downcast # 103.

Conductivity sensor locks up at zero conductivity at surface, lowering CTD to depth clears up the problem.
At the end of the day I cleaned conductivity connector & regreased it.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT.		R.B. YOUNG		9507		7		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 #	# OF BOTTLES	INIT	COMMENTS
20	S9	CTD/ROS	17:01		095				163					Downcast, $P_0 = 0.7$
			17:04		096						230-241			Upcast for samples $P_0 = -2.0$
	S8		17:57		097				91					Downcast $P_0 = 0.5$ *Salinity stop at 10m - problem
			18:01		098						242-249			Upcast for samples $P_0 = -1.6$
	S6cc		19:01		099				78					Downcast $P_0 = -1.0$
			19:03		0100						250-257			Upcast for samples $P_0 = -1.0$
	S5		19:34		0101				783					Downcast $P_0 = -2.0$
			19:38		0102						258-269			Upcast for samples $P_0 = -0.5$
	S4		20:16		0103				213					Downcast, $P_0 =$
			20:20		0104						270-281			Upcast for samples *
	S3		20:54		0105				224					Downcast, Deep $P_0 = -1.4$
			20:59		0106						282-286			Upcast for samples Deep one $P_0 = 0.3$
	S3		21:25		0107				224					Downcast, Shallow $P_0 = -2.5$
			21:28		0108						287-296			Upcast for samples, shallow $P_0 = -1.0$
	S2		21:58		0109				213					Downcast, $P_0 = -0.4$
			22:02		0110						297-308			Upcast for samples $P_0 = -1.0$
	S1		22:38		0111				153					Downcast, $P_0 = 0.5$
			22:41		0112						309-318			Upcast for samples $P_0 = -1.0$

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

21 Sept. St 3 deep cast - O_2 in bottom 4 samples (170-220db)
- H_2S in 150-180db samples.

~ 1230 Rescated plugs on winch + at pylon. Subsequent cast had no mistrips!

1315 Proceed to S6ce, cast to 81dbar.

1430 Cast between S4+S5, in 200m water, to try for H_2S bearing water - missed at 170m. (no colour).

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEP		YOUNG		9527		8		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
21	S 3	ROS	1640		113	48 35.36	123 30.12	GPS	223	220db				DOWN
			1644		114					220db	319-329	11	2w	UP 120-220db
	S 3	ROS	1811		115	48 35.36	123 30.08	GPS	223	120				
			1815		116				No	SAMPLES TAKEN				only 5 bottles tripped
	S 3	ROS	1835		117				1		330-333	4		ONLY 4 bottles tripped
	S3(cfc)	ROS	1925		118	48 36.30	123 30.18	GPS	224	170		4		CFCs
	S3	"	2005		119	"	"		224	75	334-340	7		
	S6cc	ROS	2052	BE	120	48 41.58	123 29.75	GPS	78m	81 dbar	341-349	9		SILL
	"	"	2101	EN	120	"	"							
	S4.5	ROS	2135	BE	121	48 38.01	123 30.08	GPS	201	200	—	8		CFC water only, 171 db

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	1995			MONTH	SEPT.		SHIP	R.B. YOUNG			CRUISE	9507			PAGE	9	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				
22	S5	CTD	1611		0122				184					Downcast, $P_0 = 0.6$				
			1618		0123				16		350			Upcast with calib. sample at 180m.				
	S6CC		1646		0124				76					Downcast, $P_0 = 0.2$				
			1649		0125									Upcast				
	S65A		1708		0126				98					Downcast, $P_0 = 0.1$				
			1711		0127									Upcast				
	S8		1726		0128				90					Downcast $P_0 = 0.2$				
			1728		0129									Upcast $P_0 = 88.5$				
	S85		1755		0130				103					Downcast $P_0 = 0.0$				
			1758		0131									Upcast $P_0 = 100.3$				
	S9		1832		0132				176					Downcast $P_0 = 0.0$				
			1837		0133						351			Upcast with calib sample at 174m				
	S85		1912		0134				120					Downcast $P_0 = 0.4$				
			1915		0135									Upcast $P_0 = 115$				
	S8		1939		0136				92					Downcast $P_0 = 0.1$				
			1940		0137									Upcast $P_0 = 90$				
	S65a*		1954		0138				97					Downcast $P_0 = 0.1$				
	*		1957		0139									Upcast				

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

* Station name entered as S6c but should be S65a.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT		R. B. YOUNG		9527		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
22	S6C	CTD	20:15		140				21					Downcast $P_0 = 0.2$
	Did not record upcast.													
	S6CC		20:22		141				79					Downcast $P_0 = 0.0$
			20:25		142									Upcast 71
	S6		20:32		143				73					Downcast $P_0 = 0.1$
			20:34		144									Upcast $P_0 = 0.5$
	S6B		20:43		145				68					Downcast $P_0 = 0.4$
			20:45		146									Upcast
	S6A		20:53		147				64					Downcast $P_0 = 0.1$
			20:56		148									Upcast
	S5		21:26		149				183					Downcast $P_0 = 0.2$
			21:30		150				14		352			Upcast with cal sample $P_0 = 0.6$ at 184? hit bottom
	S4		21:55		151				214					Downcast $P_0 = 0.2$
			21:59		152						353			Upcast with cal sample at 200.
	S3		22:26		153				224					Downcast $P_0 = 0.2$
			22:31		154						354			Upcast with cal sample at 220 $P_0 = 0.6$
	S2		22:50		155				216					Downcast $P_0 =$
			22:54		156						355			Upcast with cal sample $P_0 = 0.8$ at 212

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
LORAN29m
visibility

YEAR		MONTH			SHIP			CRUISE			PAGE		OF	
1995		Sept.			R.B. YOUNG			9527			11			
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
25	S1	CTD/ROS	1639	UTC	0157				165					Downcast
			1642		0158						356-367			Upcast for samples $P_0 = -0.4$
	S2		17:18		0159				216					Downcast $P_0 = 0.0$
			17:22		0160						368-379			Upcast for samples $P_0 = -0.6$
	S3		17:52		0161				224					Downcast, $P_0 = -2.0$
			17:57		0162						380-391			Upcast for samples $P_0 = -0.6$
	S4		18:55		0163				214					Downcast, $P_0 = -1.0$
			18:59		0164						392-403			Upcast for samples * $P_0 = -0.7$
	S5		19:30		0165				183					Downcast, $P_0 = -2.6$
			19:33		0166						404-415			Upcast for samples. $P_0 = -1.0$
	S6cc		20:08		0167				76					Downcast, $P_0 = -0.5$
			20:11		0168						416-423			Upcast for samples.
	S8		20:42		0169				91					Downcast, $P_0 = -1.0$
			20:45		0170						424-432			Upcast for samples
	S85		21:15		0171				4890					Downcast, $P_0 = -1.0$
			21:17		0172									Upcast but no samples. $P_0 = 0.2$
	S9		21:51		0173				174					Downcast, $P_0 = -1.2$
			21:55		0174						433-444			Upcast for samples. $P_0 = -0.6$

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

* Salinity offshore between 200 - 180m.

YEAR	1995			MONTH		Sept		SHIP		R.D. YOUNG		CRUISE			9527		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				
26	S7a	CTD	18:03	UTC	0175				44					Downcast				
			18:04		0176									Upcast		P ₀ = 0.7		
	S7b		18:13		0177				59					Downcast		P ₀ = 0.3		
			18:15		0178									Upcast		P ₀ = 0.7		
	S7		18:24		0179				91					Downcast		P ₀ = 0.2		
			18:26		0180									Upcast		P ₀ = 0.2		
	S7c		18:59		0181				63					Downcast		P ₀ = 0.1		
			19:01		0182									Upcast		P ₀ = 0.5		
	S6a		19:19		0183				64					Downcast		P ₀ = 0.3		
			19:23		0184									Upcast		P ₀ = 0.5		
	S6b		19:31		0185				67					Downcast		P ₀ = 0.1		
			19:33		0186									Upcast		P ₀ = 0.4		
	S6		19:42		0187				72					DN		P ₀ = 0.4		
			19:46		0188									UP		P ₀ = 0.4		
	S6c		19:54		0189				78					DN		P ₀ = 0.3		
			19:58		0190									UP		P ₀ = 0.5		
	S6C		20:06		0191				18					DN				
			—		—				—					NO UPCASt RECORDED				

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 1995			MONTH SEPT			SHIP R B YOUNG				CRUISE 9527				PAGE 13	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	
26	S5a	CTD	2031	UTC	192				75					DU	P ₀ = 0.2
			2034		193									UP	= 0.5
	S5b		2045		194				155					DN	= 0.4
			2049		195									UP	= 0.6
	S5		2059		196				185					DN	= 0.5
			2103		197									UP	= 0.7
	S5c		2114		198				80					DN	= 0.7
			2117		199									UP	= 0.6
	S5d		2127		200				26					DN	= 0.6
			2128		201									UP	= 0.7
	S4a		2151		202				76					DN	= 0.8
			2153		203									UP	= 0.8
	S4b		2202		204				183					DN	= 0.7
			2206		205									UP	= 0.9
	S4		2215		206				214					DN	= 0.8
			2219		207									UP	= 0.9
	S4c		2231		208				29					DN	= 0.6
			2232		209									UP	= 0.8

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

[illegible]

* Data very spikey - appears to be a slip ring problem.

+ - Cleaned slip ring and changed oil which was dirty
- Data errors however continued we isolated problem to the female EO connector on the rotating hub of slip rings

0 - went ashore and picked up spare slip-ring assembly
- installed it on which
- CTD worked well - no spikes

① - when power applied after bottle trip, conductivity was off scale ~ 1.4
and it would slowly return to normal. Other channels were not affected.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT.		R.B. YOUNG		9527		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
28	S9*	CTD/RIS	16:53		214*				183					Downcast
			16:58		215*						446-457			Upcast for samples
	S8+		17:58		216+				9385					Downcast
			18:00		217+						458-466			Upcast for samples
	S6cc ^o		19:58		218 ^o				78					Downcast
			20:00		219						467-474			Upcast for samples
	S5		20:24		220				184					Downcast
			20:27		221						475-486			Upcast for samples
	S4		20:59		222				214					Downcast
			21:03		223						487-498			Upcast for samples
	S3		21:33		224				224					Downcast
			21:38		225						499-509			Upcast for samples
	S3		22:17		226				224					Shallow cast
			22:19		227						510-514			Upcast for sample
	S2 ^①		22:41		228				214					Shallow profile
			22:45		229						515-526			Downcast
	S1 ^①		23:16		230				180					Upcast for samples
			23:20		231						527-536			hit bottom
														Upcast for samples

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

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