

CRUISE
NUMBER

9939

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

Aug - Oct 1999

VESSEL

Pierre Radisson

PROJECT

NOW 99

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____

Cruise Participants / Agencies: _____

Scientific Personnel: _____ Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Second leg of cruise:		Party Chief:			
Name	Watch	Cabin	Name	Watch	Cabin

Data logging system: Unit no.: _____
Program Name: _____ Program version: _____
CTD deck unit make: _____ model: _____ serial no.: _____
Computer make: _____ model: _____ serial no.: _____

1st CTD make: _____ model: _____ serial no.: _____
Temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Conductivity sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
Transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Comments: _____

→ Leon. 333

camera on desktop
+CD player +zip
+camp +prin

N: \Share \ 9939 - Now

- leg 1, leg 2, leg 3 → raw & corrected hdr files
- Now 99 sal.xls.

Post cruise calibration check for
transmissometer

S/N 139

0.006 V (zero)

4.562 V (full)

(w 12 V power supply)

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1999			MONTH 00			SHIP Pierre Radisson				CRUISE 9939				PAGE 1	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	
27/08	F1	CTD	03:25	UTC	1	75 14.6 N	76 21.9 W	BE	388						
27/08	F1	CTD	03:35	UTC	1	75 14.6 N	76 21.9 W	BOT		381					
27/08	F1	CTD	03:42	UTC	1	75 14.6 N	76 21.9 W	END							
27/08	F2	CTD	04:26	UTC	2	75 15.267N	76 03.319W	BE	412						
27/08	F2	CTD	04:35	UTC	2	75 15.302W	76 03.345	BOT		405					
27/08	F2	CTD	04:43	UTC	2	75 15.304W	76 03.390	END							
27/08	F3	CTD	05:26	UTC	3	75 16.062W	75 45.041	BE	430						
27/08	F3	CTD	05:36	UTC	3	75 16.142W	75 45.086W	BOT		422					
27/08	F3	CTD	05:43	UTC	3	75 16.214	75 44.940	END							
27/08	F4	CTD	06:24	UTC	4	75 16.745	75 26.763	BE	439?						
27/08	F4	CTD	06:34	UTC	4	75 16.826	75 26.948	BOT		420					
27/08	F4	CTD	06:42	UTC	4	75 16.851	75 27.013	END							
27/08	F5	ROS	07:19	UTC	5	75 17.689 N	75 08.920	BE	441			12		stopped @ 433 m touchdown didn't beep until we came back up to 420 m (2.69°C @ 1.6m)	
27/08	F5	ROS	07:29	UTC	5	75 17.687 N	75 08.964	BOT	442	433					
27/08	F5	ROS	07:49	UTC	5	75 17.645 N	75 08.927	END							
27/08	D1	ROS	08:25	UTC	6	75 15.3 N	74 59.1 W	BE	472			24			
27/08	D1	ROS	08:39	UTC	6	75 15.3 N	74 59.1 W	BOT	475	454					
27/08	D1	ROS	09:02	UTC	6	75 15.3 N	74 59.1	END	468						

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

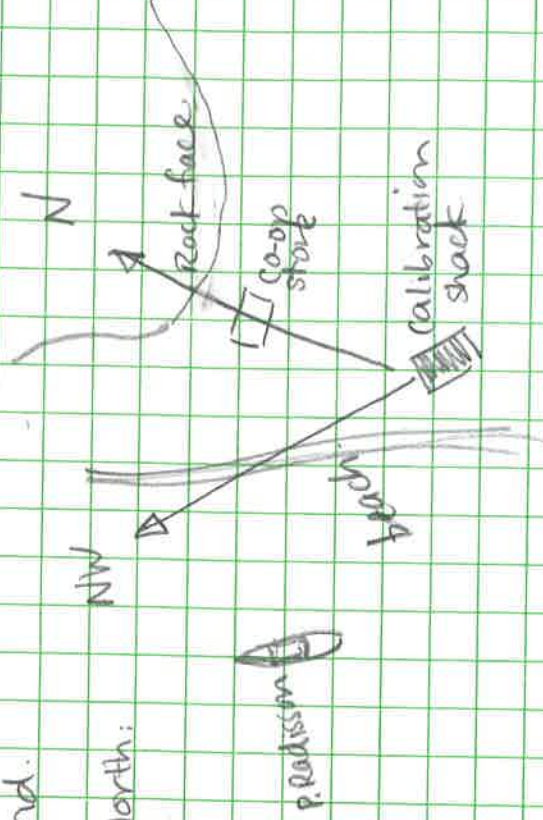
POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

current meter calibrations
→ Grise Field.

15-09-99

finding North:



shack 76° 24.945 N

82° 53.625 W

behind coop store

76° 25.094 W

82° 53.448 W

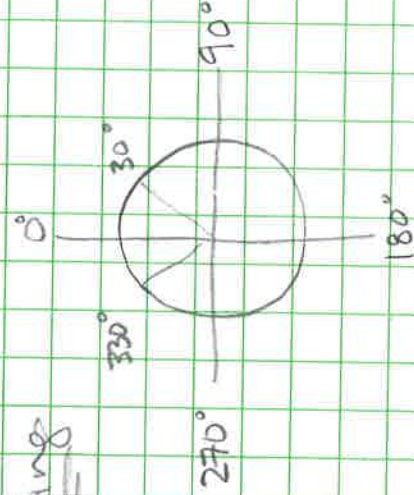
back of shack

76° 24.971 N

82° 53.622 W

coop store & shack approx. lined up parallel to N-S

calibrating



- current meters were rotated Counter Clockwise at 30° intervals (such that 0° ≡ current to North; 90° ≡ current to west; etc.)
- note this could be wrong! For instance our 30° reading- could actually be 330° (mirror image)

15-09-99

JB&DS.

S/N 972 (S4)(Clockwise turning; every 30°)
current to North

0° 177

30 87

60 1013

90 896 current to West

120 792

150 700

180 630

210 553

240 478

270 406

300 336

330 256

360 177 or 178

S/N 2462 (S5)

0° 173

30° 88

60 2

90 956

120 860

150 768

180 681

210 595

240 507

270 421

300 331

330 239

360 169

S/N 3013 (E1)

0°	162
30	80
60	1014
90	923
120	821
150	749
180	663
210	579
240	505
270	424
300	341
330	252
360°	163

S/N 7917 (E1)

0°	143
30°	66
60	1023
90	938
120	857
150	769
180	684
210	597
240	505
270	412
300	330
330	247
360	153

S/N	<u>1930</u> (E2)	1st round	2nd	3rd
0°	*127		255	127
30	63		63 ←	63
60	1009		996	
90	959		927	
120	895		895 ←	
150	773		767	
180	767		767 ←	
210	639		639 ←	
240	512		505	
270	447		415	
300	383		319 & 319	
330	255		255 ←	255
360	255		255 ←	*127

... sticking at 330°?

S/N 7920 (S4)

0°	182			300	360
30	100			330	279
60	3			360	179
90	936				
120	858				
150	768				
180	691				
210	603				
240	521	502	503		
270	430	433			

SIN <u>7921</u> (S2)	1st	2nd	3rd.
	0°	142	
30	69	84	
60	1015	3	11022
90	936		
120	866		
150	773		
180	689		
210	603		
240	510		
270	415		
300	341		
330	251		
360	166	163	

SIN <u>7918</u> (S2)	1st	2nd
	0°	150
30	85	88
60	1022	
90	933	
120	859	
150	762	
180	677	
210	604	
240	516	
270	419	
300	346	
330	250	
360	161	161

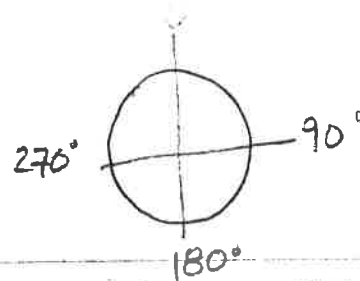
S/N 10298 (RCM7) (E1)

(DSU Initial) 63943 } test 30s interval

63967 test 1min int.
73

end interval reading.

BE	63991 ✓	← DSU before starting calibration.
0°	63997 ✓	← DSU after 0° reading
30°	64003 ✓	
60°	64009 ✓	
90°	64015 ✓	
120°	64021 ✓	
150°	64027 ✓	
180°	64033 ✓	
210°	64039 ✓	
240°	64045 ✓	
270°	64051 ✓	
300°	64057 ✓	
330°	64063 ✓	
360°	64069 ✓	last reading before turning DSU off.



S/N 10301 (RCM7)(S5)

(DSU initial) 64868 change to 1min interval

test 64880

test 64886

0° 64892 ← DSU after 0° reading

30° 64898

60° 64904

90° 64910

120° 64916

150° 64922

180° 64928

210° 64934

240° 64940

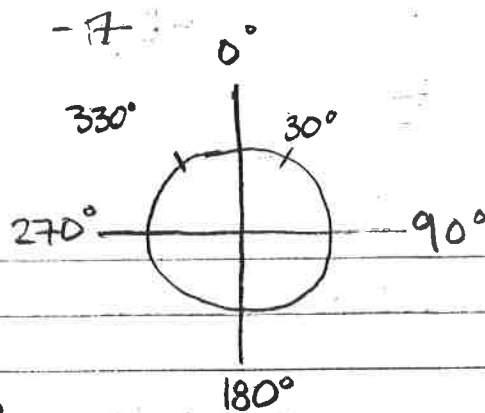
270° 64946

300° 64952

330° 64958

360° 64964 ← end reading before turning off DSU.

SN 12484 (D2)

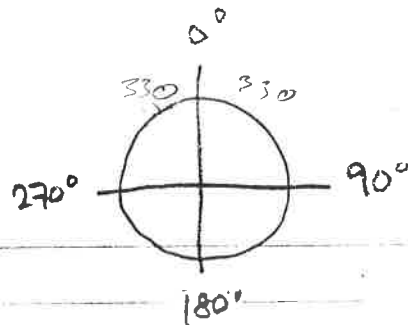


61506

61518

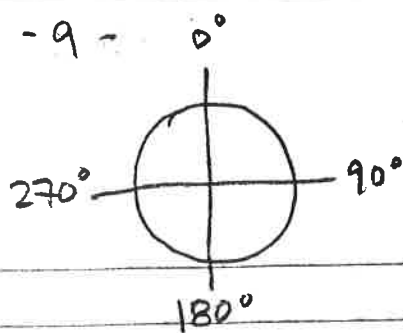
3E	61524	← DSU reading before starting calibration
0°	61530	← DSU after 0° reading
30°	61536	
60°	61542	
90°	61548	
120°	61554	
150°	61560	
180°	61566	
210°	61572	
240°	61578	
270°	61584	
300°	61590	
330°	61596	
360°	61602	→ last reading on DSU before turning it off

Note: - current meters were rotated counter clockwise at 30° intervals (such that 0° ≡ current to North; 90° ≡ current to West; etc)
→ this could be wrong! For instance our 30° reading could actually be 330° (mirror image)



S/N 12273 (12)

	61530	change to 1min interval
test	61536	
BEGIN	61542	
0°	61548	← DSU after 0° reading
30°	61554	
60°	61560	
90°	61566	
120°	61572	
150°	61578	
180°	61584	
210°	61590	
240°	61596	
270°	61602	
300°	61608	
330°	61614	
360°	61620	→ last reading on DSU before turning it off



S/N 12213 (D1)

DSU readings

BE 63342 ← changed to 1min interval

0° 63348 ← DSU after 0° reading

30° 63354

60° 63360

90° 63366

120° 63372

150° 63378

180° 63384

210° 63390

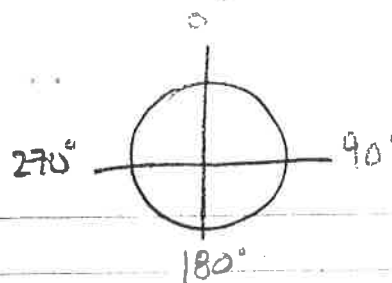
240° 63396

270° 63402

300° 63408

330° 63414

360° 63420 ← last reading on DSU
before turning it off.



S/N 12214 (D1)

63324 ← (changed to 1min interval)

63330

BE 63336 ← last reading on DSU before starting calibration

0° 63342

30° 63348

60° 63354

90° 63360

120° 63366

150° 63372

180° 63378

210° 63384

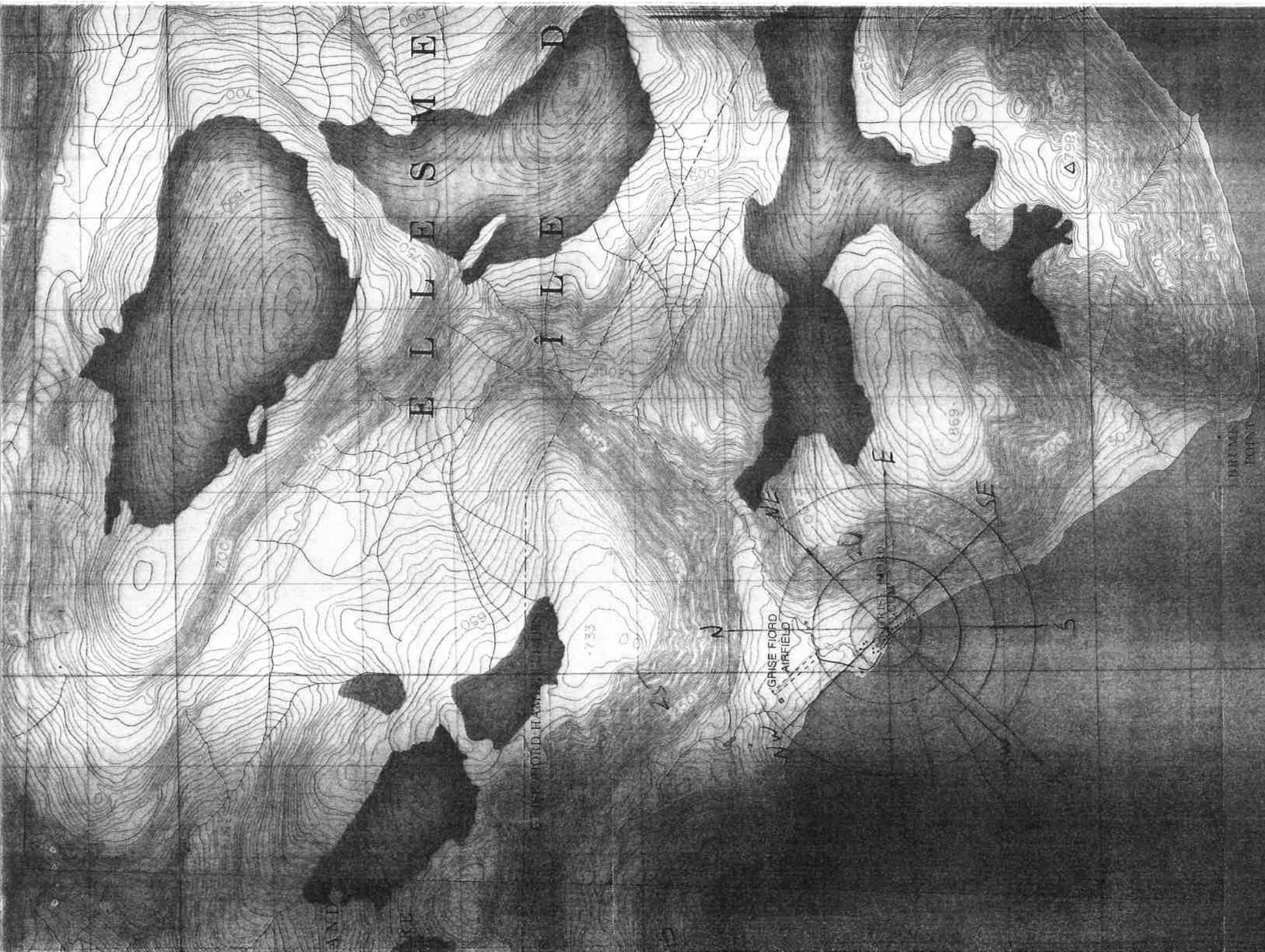
240° 63390

270° 63396

300° 63402

330° 63408

360° 63414 ← last reading on DSU before turning it off.



DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE		OF	
1999			08			Pierre Radisson			9939					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			
27/08	D1	ROS	1200	UTC	7	75 16.2 N	75 08.5 W	BE	461			11					
27/08	D1	ROS	1210	UTC	7	75 16.3 N	75 08.6 W	BOT		439							
27/08	D1	ROS	1226	UTC	7	75 16.3 N	75 08.9 W	END									
28/08	F 8	CTD	03:20	UTC	8	75 18.6 N	74 50.0 W	BE	493								
28/08	F 8	CTD	03:30	UTC	8	75 18.6 N	74 50.1 W	BOT	494	475							
28/08	F 8	CTD	03:40	UTC	8	75 18.6 N	74 50.1 W	END	497								
28/08	F 9	CTD	04:35	UTC	9	75 19.460 N	74 31.645 W	BE	523								
28/08	F 9	CTD	04:46	UTC	9	75 19.436 N	74 31.628 W	BOT	521	502							
28/08	F 9	CTD	04:56	UTC	9	75 19.470 N	74 31.495 W	END									
28/08	S4	CTD	20:45	UTC	10	76 15.8 N	74 16.4 W	BE	465			8					
28/08	S4	CTD		UTC	10	76 15.8 N	74 16.4 W	BOT		438							
28/08	S4	CTD	21:06	UTC	10	76 15.8 N	74 16.3 W	END									
29/08	S4	ROS	09:47	UTC	11	76 17.2 N	74 12.3 W	BE	459			24		only 5 bottles tripped coddler pin stuck in CTD pylon			
29/08	S4	ROS	10:00	UTC	11			BOT	454	432							
29/08	S4	ROS	10:20	UTC	11	76 16.7 N	74 09.5 W	END									
29/08	S4	ROS	1050	UTC	12	76 17.5 N	74 18.9 W	BE	462			24		retake of Cast 11 Euphotic zone.			
29/08	S4	ROS	1101	UTC	12	76 17.1 N	74 17.3 W	BOT	462	443							
29/08	S4	ROS	1121	UTC	12	76 17.1 N	74 17.3 W	END									

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

YEAR 1999			MONTH 08			SHIP Pierre Radisson				CRUISE 9939				PAGE 3 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	
29/08	S4	ROS	14:30	UTC	13	76 16.42	74 22.75W	BE	464			21			
29/08	S4	ROS	14:40	UTC	13	76 16.35N	74 22.2S	BOT	464	435					
29/08	S4	ROS	15:00	UTC	13	76 16.30N	74 21.39	END							
30/08	S5	ROS	07:00	UTC	14	76 24.44SN	77 26.31S	BE	350			24			
30/08	S5	ROS	07:22	UTC	14	76 24.261N	77 25.753	BOT	347	331					
30/08	S5	ROS	07:43	UTC	14	76 24.077	77 25.598	END							
30/08	S5	ROS	11:35	UTC	15	76 24.48N	77 25.72W	BE	337			14			
30/08	S5	ROS	11:49	UTC	15	76 24.48N	77 25.72W	BOT	344	325					
30/08	S5	ROS	1200	UTC	15	76 24.35N	77 26.10W	END	353						
01/09	D2	ROS	9:22	UTC	16	76 57.57N	74 59.14 W	BE	550			24			
01/09	D2	ROS	9:37	UTC	16			BOT		529					
01/09	D2	ROS	9:58	UTC	16	76 57.00N	74 59.49W	END							
01/09	D2	ROS	13:45	UTC	17	76 57.5 N	74 58.8W	BE	542			24			
01/09	D2	ROS		UTC	17	76 57.4 N	74 58.8 W	BOT		523					
01/09	D2	ROS	14:23	UTC	17	76 57.2N	74 59.3W	END							
02/09	E2	ROS	21:05	UTC	18	78 02.48N	73 19.23W	BE	285			24			
02/09	E2	ROS	21:13	UTC	18	78 02.6N	73 18.59W	BOT	269	259					
02/09	E2	ROS	21:30	UTC	18	78 02.5N	73 18.2W	END							

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

YEAR 1999			MONTH 09			SHIP RadiSSon				CRUISE 9939				PAGE 4	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	
03/09	E2	ROS	06:05	UTC	19	78 02.645N	73 18.72W	BE	281			19			
03/09	E2	ROS	06:15	UTC	19	78 02.640	73 19.352	BOT	287	269					
03/09	E2	ROS	06:30	UTC	19	78 02.532	73 19.910W	END							
03/09	E2	ROS	08:20	UTC	20	78 02.63	73 19.75W	BE	288			24		UGOF timeout error bottles didn't fire	
03/09	E2	ROS	08:31	UTC	20	78 02.58N	73 20.36W	BOT	294	275					
03/09	E2	ROS	08:35	UTC	20	—	—	END							
03/09	E2	ROS	08:45	UTC	21	—	—	BE	294			24		continuation of cast 20 after reloading the program 27m to surface <u>only</u>	
03/09	E2	ROS	N/A	UTC	21	N/A	N/A	BOT							
03/09	E2	ROS	08:56	UTC	21	78 02.54N	73 21.30W	END							
04/09	N3	ROS	10:10	UTC	22	78 20.93N	74 20.57W	BE	523			24			
04/09	N3	ROS	10:25	UTC	22	78 20.56N	74 20.78W	BOT	503	479					
04/09	N3	ROS	10:45	UTC	22	78 20.20N	74 20.72W	END							
04/09	N3	ROS	12:05	UTC	23	78 18.25N	74 27.31W	BE	532			24			
04/09	N3	ROS	12:18	UTC	23	78 17.77N	74 28.37W	BOT	561	530					
04/09	N3	ROS	12:42	UTC	23	78 17.49N	74 28.50	END	579						
06/09	E1	ROS	06:04	UTC	24	76 59.625N	72 27.306	BE	546			24			
06/09	E1	ROS	06:20	UTC	24	76 59.549N	72 27.095	BOT		525m					
06/09	E1	ROS	07:03	UTC	24	76 59.344	72 26.087	END							

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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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		Piem Radisson		9939		5						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
06/09	E1	ROS	8:40	UTC	25	76 59.93N	72 26.89W	BE	558			24		
06/09	E1	ROS	8:55	UTC	25	76 59.89N	72 26.56	BOT	562	537				
06/09	E1	ROS	9:18	UTC	25	77 00.00	72 26.39	END						
07/09	S2	ROS	8:15	UTC	26	76 17.54	71 54.46	BE	590			24		
07/09	S2	ROS	8:29	UTC	26	76 17.56	71 54.38	BOT		563				
07/09	S2	ROS	8:51	UTC	26	76 17.68	71 54.28	END						
07/09	S2	ROS	10:16	UTC	27	76 17.33 N	71 54.66W	BE	589			24		
07/09	S2	ROS	10:27	UTC	27	76 17.32 N	71 54.73	BOT		560				
07/09	S2	ROS	10:48	UTC	27	76 17.44N	71 54.87	END						
07/09	S2	ROS	20:23	UTC	28	76 17.47	71 54.94	BE	592			24		
07/09	S2	ROS	20:32	UTC	28	76 17.45	71 55.07	BOT		562				
07/09	S2	ROS	20:57	UTC	28	76 17.45	71 55.27	END						
08/09	S1	ROS	7:05	UTC	29	76 18.312	70 13.444	BE	290			24		
08/09	S1	ROS	7:15	UTC	29	76 18.335	70 13.433	BOT		272				
08/09	S1	ROS	7:40	UTC	29	76 18.354	70 13.162	END						
08/09	S1	ROS	9:15	UTC	30	76 18.32N	70 14.2 W	BE	288					
08/09	S1	ROS	9:22	UTC	30			BOT	282	267				
08/09	S1	ROS	9:38	UTC	30	76 18.48N	70 14.92W	END						

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

12/09/99
15:20 UTC

used RECOVER on ADCP S/N 0272 (Station E2)
took 3 hr 29 min.

(size)

{ E2NOW000.log 7579
E2NOW000.000 8268
E2NOW001.000 35873628
E2NOW002.000 8268

13 "corrections"

19:50 UTC

RECOVER → ADCP S/N 333 (Station S2)

(ADCP 41756 kb - |||| vs 635109 kb free space.
~~6 hrs~~ ?
A.

4 hr 3 min.

41756630

NOW S2 000.log

7500

NOW S2 000.000

20271804

S2NOW000.log

8066

S2NOW000.000

8268

S2NOW001.000

21460992

13 corrections

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE			PAGE		OF	
1999		Sept			Pierre Radisson			9939			6			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
09/09	S4	ROS	21:15	UTC	31	76 16.27	74 10.72 W	BE	457					
09/09	S4	ROS	21:32	UTC	31	76 16.04	74 10.98	BOT		434				
09/09	S4	ROS	21:50	UTC	31	76 16.08	74 11.11	END						
10/09	S4	ROS	7:05	UTC	32	76 16.13	74 09.33	BE	454					
10/09	S4	ROS	7:11	UTC	32	76 16.20	74 09.35 W	BOT		433				
10/09	S4	ROS	7:36	UTC	32	76 16.36 N	74 09.46	END						
"	S4	ROS	10:05	UTC	33	76 15.40 N	74 08.90 W	BE	457					
"	S4	ROS	10:17	UTC	33			BOT		437				
"	S4	ROS	10:40	UTC	33	76 15.24 N	74 09.87 W	END						
11/09	N2	ROS	7:15	UTC	34	78 20.976	74 42.700	BE	528			23		Bottle 7 misfired
11/09	N2	ROS	7:26	UTC	34	78 20.622	74 42.934	BOT	552	533				careful with the data
11/09	N2	ROS	7:51	UTC	34	78 20.075	74 43.900	END						
11/09	N2	ROS	10:10	UTC	35	78 21.94	74 42.51	BE	500					
11/09	N2	ROS	10:21	UTC	35	78 22.30	74 41.12	BOT	458	421				
11/09	N2	ROS	10:38	UTC	35	78 22.07	74 41.39	END						
12/09	3/N3	CTD	17:07	UTC	36	78 19.197	74 30.096	BE	579			0		
12/09	3/N3	CTD	17:21	UTC	36	78 19.101	74 32.142	BOT	564	542				
12/09	3/N3	CTD	17:33	UTC	36	78 19.027	74 33.034	END						

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 -

RADAR

GPS -

GLOBAL

LOR -

LORAN

→ 550

562

→ 530

SECC 141 ?

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE						PAGE 7 OF 7	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS		
12/09	4	ROS	23:17	UTC	37	78 22.42	73 49.22	BE	576			13				
12/09	4	ROS	23:29	UTC	37			BOT	577	549						
12/09	4	ROS	23:55	UTC	37	78 22.15	73 50.35	END								
13/09	5	CTD	3:05	UTC	38	78 20.86	73 43.20	BE	569							
13/09	5	CTD	3:20	UTC	38	78 20.86	73 43.54	BOT	550	532						
13/09	5	CTD	3:34	UTC	38	78 20.86	73 43.54	END								
13/09	6	ROS	7:05	UTC	39	78 20.182	73 20.316	BE	467			21				
13/09	6	ROS	7:27	UTC	39	78 20.145	73 21.45	BOT	457	431						
13/09	6	ROS	7:48	UTC	39	78 19.940	73 23.120	END								
13/09	6	ROS	9:10	UTC	40	78 19.52	73 23.48	BE	560							
13/09	6	ROS	9:19	UTC	40			BOT	541	513						
13/09	6	ROS	9:40	UTC	40	78 19.16	73 24.46	END								
17/09	43	ROS	15:15	UTC	41	76 22.52	77 49.10	BE	210			19				
17/09	43	ROS	15:28	UTC	41	76 22.33	77 49.71	BOT		194						
17/09	43	ROS	15:50	UTC	41	76 22.36	77 50.60	END								
17/09	44	CTD	22:05	UTC	42	76 24.77	077° 28.22	BE	380			0				
17/09	44	CTD	22:17	UTC	42	76 24.77	077° 28.22	BOT	367							
17/09	44	CTD	22:27	UTC	42	76 24.77	077 28.22	END	397							

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

SECCHI DEPTH :

0.1 90
1.0 90
10 90
20 90
30 90
50 90

station 45

17-9-99

-1.5°C

$K_d1 = 0.170$

$K_d2 = 0.145$

%	①	②
100	0	0
50	4.08	4.79
30	7.09	8.32
20	9.48	11.13
10	13.56	15.92
1	27.11	31.84
0.1	40.67	47.75

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1999		MONTH 09		SHIP PIERRE RADISSON				CRUISE 9939						PAGE 8	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
18/9	45	ROS	10:05	UTC	43	76° 21.12	77 02.98	BE	304			7			
18/9	45	ROS	10:17	UTC	43			BOT		294					
18/9	45	ROS	10:32	UTC	43	76° 21.15	77 03.04	END							
18/9	45	ROS	10:45	UTC	44	76° 21.12	77 02.87	BE	304			16		Continuation of cast 43	
18/9	45	ROS	N/A	UTC	44	N/A	N/A	N/A		20				only put it down to 20m and came up.	
18/9	45	ROS	11:02	UTC	44	76° 21.15	77 03.32	END							
18/9	45	ROS	12:25	UTC	45	76° 20.94	77 05.55	BE	310			24			
18/9	45	ROS	12:36	UTC	45	76° 20.79	77 06.11	BOT	314	296					
18/9	45	ROS	12:55	UTC	45	76° 20.64	77 05.89	END							
18/9	46	CTD	14:55	UTC	46	76° 18.40	76 34.26	BE	215						
18/9	46	CTD	15:03	UTC	46	76° 18.27	76 34.92	BOT	200	190					
18/9	46	CTD	15:08	UTC	46	76 18.26	76 34.90	END							
18/9	47	ROS	17:40	UTC	47	76° 18.794	075 54.855	BE	342						
18/9	47	ROS	18:02	UTC	47	76° 18.726	075 55.585	BOT	328	(349)					
18/9	47	ROS	18:27	UTC	47	76° 18.602	075 55.648	END							
18/9	48	CTD	21:30	UTC	48	76° 16.97	075° 02.04	BE	446						
18/9	48	CTD	21:40	UTC	48			BOT	426						
18/9	48	CTD	21:45	UTC	48	76° 16.89	075° 01.75	END	447						

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

YEAR		1995		MONTH		09		SHIP		RADISSON		CRUISE		9939		PAGE		OF			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS							
19/9	50	ROS	01h04	UTC	49	76° 16.809	074° 23.22	BE	465												
19/9	50	ROS	01h15	UTC	49	76° 16.78	074° 23.39	BOT	461												
19/9	50	ROS	01h40	UTC	49	76° 16.72	074° 23.80	END	461												
19/9	51	CTD	03h05	UTC	50	76° 16.30	073° 37.32	BE	512												
19/9	51	CTD	03h17	UTC	50	76° 16.37	073° 37.28	BOT	516												
19/9	51	CTD	03h25	UTC	50	76° 16.37	073° 37.27	END	515												
19/9	52	ROS	7:00	UTC	51	76° 16.884	73° 02.416	BE	570			20									
19/9	52	ROS	7:07	UTC	51	76° 16.935	73° 02.342	BOT		543											
19/9	52	ROS	7:34	UTC	51	76° 17.059	73° 02.461	END													
19/9	53	CTD	9:00	UTC	52	76° 17.16	72° 27.72	BE	570												
19/9	53	CTD	9:15	UTC	52	76° 16.97	72° 27.68	BOT	567	542											
19/9	53	CTD	9:26	UTC	52	76° 16.91	72° 27.66	END													
19/9	54	ROS	11:05	UTC	53	76° 17.52	71° 55.46	BE	589												
19/9	54	ROS	11:26	UTC	53	76° 17.62	71° 55.46	BOT		564											
19/9	54	ROS	11:51	UTC	53	76° 17.55	71° 54.57	END													
19/9	54	ROS	13:45	UTC	54	76° 17.41	71° 55.78	BE	585			21									
19/9	54	ROS	14:00	UTC	54	76° 17.28	71° 55.68	BOT		555											
19/9	54	ROS	14:25	UTC	54	76° 17.17	71° 55.68	END													

CAST TYPE -

BOT - bottle cast

ROS - rosette

LSW - sea water loop

TIME CODE -

BE -

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

→ 550

20/09/99 16h34 UTC

Profile 1

$Kd = 0.121$

Profile 2

$Kd = 0.119$

100%	0 m
50%	5.73
30%	9.95
20%	13.29
10%	19.02
1.0%	38.04
0.1%	57.06

100%	0 m
50%	5.79
30%	10.06
20%	13.45
10%	19.25
1.0%	38.49
0.1%	57.74

STN 41
77° 00.22' N
071° 35.42' W

20/09/99

Profile 1

$Kd_1 = 0.156$

100%	0 m
50%	4.43
30%	7.70
20%	10.30
10%	14.73
1.0%	29.46
0.1%	44.19

20h30 UTC (STN 40)

Profile 2

$Kd_2 = 0.155$

100%	0 m
50%	4.48
30%	7.78
20%	10.40
10%	14.88
1.0%	29.76
0.1%	44.63

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		RADISSON		9939		10						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
19/9	55	CTD	21h36	UTC	55	76° 17.84	071° 24.94	BE	670					
19/9	55	CTD	21h49	UTC	55	76° 18.85	071° 24.62	BOT	677					
19/9	55	CTD	22h01	UTC	55	76° 17.94	071° 24.35	END	652					
19/9	56	ROS	23h11	UTC	56	76° 18.21	070° 54.64	BE	662					
19/9	56	ROS	23h26	UTC	56	76° 18.22	070° 54.50	BOT	662	(648)				
19/9	56	ROS	23h54	UTC	56	76° 18.18	070° 54.33	END	662					
20/9	57	CTD	02h55	UTC	57	76° 18.41	070° 33.89	BE	204					
20/9	57	CTD	03h03	UTC	57	76° 18.41	070° 33.84	BOT	204					
20/9	57	CTD	03h07	UTC	57	76° 18.43	070° 33.75	END	204					
20/9	58	ROS	06h10	UTC	58	76° 18.139	070° 13.80	BE	287			24		
20/9	58	ROS	06h18	UTC	58	76° 18.181	070° 13.60	BOT	287	274				
20/9	58	ROS	06h41	UTC	58	76° 18.233	070° 13.413	END	287					
20/9	42	ROS	17h42	UTC	59	76° 59.995	071° 34.86	BE	985	965/955		22		
20/9	42	ROS	18h02	UTC	59	77° 00.093	071° 35.521	BOT	963					
20/9	42	ROS	18h48	UTC	59	77° 00.318	071° 37.836	END						
20/9	41	CTD	20h46	UTC	60	77° 00.009	072° 00.42	BE	1050	(1012 m CTD)				
20/9	41	CTD	21h11	UTC	60	77° 00.16	072° 00.75	BOT	1050					
20/9	41	CTD	21h30	UTC	60	77° 00.21	072° 00.85	END						

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1999		MONTH 09		SHIP RADISSON		CRUISE 9939		PAGE 11		OF				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD-HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21/9	40	ROS	06:00	UTC	61	76° 59.057	072° 28.205	BE	539			22		-rosette malfunction return to surface; no bottles fired
21/9	40	ROS	06:10	UTC	61	N/A	N/A	BOT						
21/9	40	ROS	06:15	UTC	61	76° 58.602	072° 28.499	END						
21/9	40	ROS	07:25	UTC	62	76° 58.602	072° 28.494	BE	542			22		retake of cast 61
21/9	40	ROS	07:36	UTC	62	76° 58.525	072° 28.667	BOT	537	514				
21/9	40	ROS	08:02	UTC	62	76° 58.359	072° 28.950	END						
21/9	40	ROS	09:30	UTC	63	76° 58.52	072° 28.17	BE	548			23		
21/9	40	ROS	09:53	UTC	63	76° 58.43	072° 28.43	BOT	545	525				
21/9	40	ROS	10:21	UTC	63	76° 58.35	072° 28.86	END						
21/9	39	CTD	12:40	UTC	64	76° 59.98	072° 47.99	BE	413			—		
21/9	39	CTD	12:50	UTC	64	76° 59.997	072° 48.592	BOT		392				
21/9	39	CTD	13:00	UTC	64	76° 59.960	072° 48.571	END						
21/9	38	ROS	14:05	UTC	65	77° 00.12	073° 12.87	BE	343			19		
21/9	38	ROS	14:15	UTC	65	77° 00.19	073° 12.57	BOT						
21/9	38	ROS	14:41	UTC	65	77° 00.17	073° 11.96	END						
21/9	37	CTD	23:48	UTC	66	77° 00.19	073° 48.39	BE	335					
21/9	37	CTD	23:57	UTC	66	77° 00.18	073° 47.81	BOT	334					
22/9	37	CTD	00:22	UTC	66	77° 00.21	73° 48.86	END	335					

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

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		RADISSON		9939		12						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE N	LONGITUDE W	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
22/9	36	ROS	03h15	UTC	67	76°59.08	074°27.81	BE	583		mix-up in			The wire got caught
22/9	36	ROS	03h24	UTC	67	76°58.91	074°27.65	BOT			the break #			3 Tinner: 540, 359,
22/9	36	ROS	03h52	UTC	67	76°58.47	074°26.82	END	583		(the program)			166 meters.
22/9	35	CTD	08h10	UTC	68	76°58.66	075°03.46	BE	552					
22/9	35	CTD	08h27	UTC	68	76°58.48N	075°03.67W	BOT		525				
22/9	35	CTD	08h37	UTC	68	76°58.35'N	075°03.65W	END						
22/9	34	ROS	10:35	UTC	69	77°00.11	075°40.02	BE	513					
22/9	34	ROS	10:49	UTC	69	76°59.97	075°39.60	BOT	514	494				
22/9	34	ROS	11:14	UTC	69	76°59.85	075°39.29	END						
22/9	33	CTD	14:20	UTC	70	77°00.30	076°09.80	BE	227					
22/9	33	CTD	14:29	UTC	70	77°00.26N	076°09.24	BOT	227	215				
22/9	33	CTD	14:35	UTC	70	77°00.28N	076°09.13	END						
22/9	32	ROS	17:29	UTC	71	77°00.242	076°46.135	BE	195			22		Euphotic cast
22/9	32	ROS	17:37	UTC	71	77°00.261	076°45.911	BOT	195					
22/9	32	ROS	18:02	UTC	71	77°00.356	076°45.574	END	197					
22/9	32	ROS	19:49	UTC	72	77°00.007	076°46.293	BE	203			24		Aphotic cast
22/9	32	ROS	19:54	UTC	72	77°00.104	076°46.034	BOT	200					
22/9	32	ROS	20:15	UTC	72	77°00.236	076°45.554	END	189					

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 1B

24/09/99

11:30 UTC

$K_d = 0.169$

0.1%	41.93 m
1%	27.95 m
10%	13.98
20	9.77
30	7.31
50	4.31
100	0

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		RADISSON		9939		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
23/9	31	CTD	8:30	UTC	73	77 00.23	77 10.69	BE	283					
23/9	31	CTD	8:42	UTC	73	77°00.33'N	077°10.72W	BOT		266				
23/9	31	CTD	8:47Z	UTC	73	77°00.33'N	077°10.85W	END						
23/9	31	ROS	11:32	UTC	74	77° 00.66 N	077° 13.27	BE	230					Euphotic + Aphotic
23/9	31	ROS	11:39	UTC	74	-	-	BOT	226	220				
23/9	31	ROS	12:02	UTC	74	77° 00.79	077° 13.70	END						
24/9	18	ROS	11:58	UTC	75	77° 50.02	073° 09.26	BE	180			24		Euphotic
24/9	18	ROS	12:04	UTC	75	77° 49.94 N	073° 09.34W	BOT		163				
24/9	18	ROS	12:25	UTC	75	77° 49.71 N	073° 09.61W	END						
24/9	18	ROS	14:10	UTC	76	77° 48.76 N	073° 09.18W	BE	178			17		
24/9	18	ROS	14:30	UTC	76	77° 48.54 N	073° 10.03W	BOT						
24/9	18	ROS	14:47	UTC	76	77° 48.29 N	073° 10.26W	END						
24/9	19	CTD	22:26	UTC	77	77° 50.11	073° 41.17	BE	074					
24/9	19	CTD	22:31	UTC	77	N/A	N/A	BOT	077					
24/9	19	CTD	22:33	UTC	77	77° 50.12	072° 41.48	END	077					
25/9	20	ROS	03:50	UTC	78	77° 50.09	072° 14.62	BE	46			19		Basic
25/9	20	ROS	03:55	UTC	78	77° 50.15	072° 14.75	BOT	46					
25/9	20	ROS	04:05	UTC	78	77° 50.27	072° 14.99	END	46					

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

Stn 15

25-09-99
14:00 UTC

Kd = 0.1826

% m

100 0

50 3.80

30 6.59

20 8.81

10 12.61

1 25.22

0.1 37.82

light
profile

STN 62 - Cant 84

20000 29/09/99 UTC (for stn 64 - full)

Kd = 0.130

0.123

100% 0 m

50% 5.33 m

30% 9.25 m

20% 12.37 m

10% 17.69 m

1.0% 35.38 m

0.1% 53.08 m

0 m

5.63 m

9.78 m

13.08 m

18.71 m

37.42 m

56.14 m

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		RADISSON		9939		14						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE N	LONGITUDE W	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
25/9	17	CTD	0705	UTC	79	77°50.473'N	073°34.887'W	BE	277					
25/9	17	CTD	0711	UTC	79	77°50.448'N	073°34.894'W	BOT		261				
25/9	17	CTD	0721	UTC	79	77°50.445'N	073°35.085'W	END						
25/9	16	ROS	0925	UTC	80	77°50.48'N	074°15.09'W	BE	625			23		
25/9	16	ROS	0937	UTC	80	77°50.63'N	074°14.62'W	BOT		615				
25/9	16	ROS	1009	UTC	80	77°50.88'N	074°13.99'W	END						
25/9	15	ROS	1405	UTC	81	77°48.53'N	074°54.17'W	BE	705					
25/9	15	ROS	1420	UTC	81	77°48.45'N	074°54.43'W	BOT		686				
25/9	15	ROS	1456	UTC	81	77°48.45'N	074°53.30'W	END						
25/9	14	ROS	1943	UTC	82	77°48.137	075°29.912	BE		609		22		Euphotic
25/9	14	ROS	1940	UTC	82	77°47.996	075°29.473	BOT		620				
25/9	14	ROS	20405	UTC	82	77°47.902	075°29.207	END		—				
26/9	14	ROS	01404	UTC	83	77°47.48	075°21.25	BE	645			16		aphotic
26/9	14	ROS	01416	UTC	83	77°47.61	075°20.28	BOT	652					
26/9	14	ROS	01443	UTC	83	77°47.60	075°18.9	END	652					
29/9	62	ROS	20233	UTC	84	75°14.58	078°13.23	BE	458			21		
29/9	62	ROS	20446	UTC	84	75°14.936	078°13.105	BOT	466					
29/9	62	ROS	21410	UTC	84	75°14.77	078°12.77	END	455					

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water sampler

TIME CODE -

BE

bottom

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

28423

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		09		RADISSON		9939		15						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE °N	LONGITUDE °W	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
30/9	64	CTD	00h24	UTC	85	75° 15.31	077 07.76	BE	395			0		
30/9	64	CTD	00h32	UTC	85	75° 18.20	077 07.72	BOT	395					
30/9	64	CTD	00h42	UTC	85	75° 15.15	077 07.76	END	395					
30/9	66	ROS	09:35	UTC	86	75° 14.97	076 03.62	BE	405			24		
30/9	66	ROS	10:03	UTC	86	75° 14.92' N	076 03.72' W	BOT		393				
30/9	66	ROS	10:24	UTC	86	75° 14.69' N	076 03.15' W	END						
30/9	66	ROS	11:39	UTC	87	75° 14.78' N	076 03.68' W	BE	404			24		
30/9	66	ROS	11:51	UTC	87	75° 14.72' N	076 03.33' W	BOT		390				
30/9	66	ROS	12:15	UTC	87	75° 14.41' N	076 03.02' W	END						
30/9	68	CTD	1428	UTC	88	75 15.33	074 59.13	BE	486					
30/9	68	CTD	1439	UTC	88	75 15.27	074 59.14	BOT	485	471				
30/9	68	CTD	1448	UTC	88	75 15.27	074 59.25	END						
30/9	68-1	CTD	15:15	UTC	89	75 15.98	074 48.45	BE	494					
30/9	68-1	CTD	15:25	UTC	89	75° 16.03' N	074° 48.26' W	BOT		479				
30/9	68-1	CTD	15:33	UTC	89	75° 16.00' N	074° 48.42' W	END						
30/9	68-2	CTD	16:17	UTC	90	75° 17.010	074° 36.871	BE	525					
30/9	68-2	CTD	16:29	UTC	90	75° 17.074	074° 36.665	BOT	525	504				
30/9	68-2	CTD	16:42	UTC	90	75° 17.141	074 36.714	END						

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				
1999		09		RADISSON		9939		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
30/9	69	CTD	17:19	UTC	91	75° 17.832	074° 26.322	BE	550					
30/9	69	CTD	17:31	UTC	91	75° 17.849	074° 26.212	BOT	553	528				
30/9	69	CTD	17:43	UTC	91	75° 17.821	074° 26.346	END	—					
30/9	69-1	CTD	17:10	UTC	92	75° 18.608	074° 15.151	BE	567					
30/9	69-1	CTD	18:23	UTC	92	75° 18.604	074° 14.923	BOT	—	542				
30/9	69-1	CTD	18:33	UTC	92	75° 18.549	074° 14.756	END	567					
30/9	69-2	CTD	19:03	UTC	93	75° 19.373	074° 04.533	BE	600					
30/9	69-2	CTD	19:17	UTC	93	75° 19.325 373	074° 04.333	BOT	600	582				
30/9	69-2	CTD	19:28	UTC	93	75° 19.254	074° 04.180	END	—					
30/9	70	ROS	19:57	UTC	94	75° 20.090	073° 54.000	BE	609			23		
30/9	70	ROS	20:12	UTC	94	75° 20.07	073° 53.45	BOT	614					
30/9	70	ROS	20:45	UTC	94	75° 19.92	073° 52.84	END	—					
01/10	72	ROS	00:02	UTC	95	75° 25.03	072° 51.71	BE	635			2		
01/10	72	ROS	00:13	UTC	95	75° 25.07	072° 51.68	BOT	635	607				
01/10	72	ROS	00:28	UTC	95	75° 25.09	072° 51.51	END	635					
01/10	74	CTD	02:04	UTC	96	75° 29.96	071° 49.31	BE	605					
01/10	74	CTD	02:16	UTC	96	75° 30.06	071° 49.09	BOT	608	582				
01/10	74	CTD	02:27	UTC	96	75° 30.12	071° 49.01	END	608					

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

Stn 76-full

Oct 1, 1999

$k_d = 0.146$

$k_d = 0.140$

100%	0
50%	4.75
30%	8.26
20%	11.04
10%	15.8
1%	31.59
0.1%	47.39

0
4.80
8.33
11.14
15.93
31.86
47.76

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		10		RADISSON		9939		17						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE (N)	LONGITUDE (W)	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
01/10	76	ROS	11:20	UTC	97	75° 34.87	070° 45.87	BE	552			24		Aphotic
01/10	76	ROS	11:30	UTC	97	75° 34.79	070° 46.26	BOT	554	540				
01/10	76	ROS	11:56	UTC	97	75° 34.87	070° 46.20	END						
01/10	76	ROS	13:06	UTC	98	75° 35.27	070° 47.48	BE	560			24		Euphotic
01/10	76	ROS	13:15	UTC	98	75° 35.38	070° 47.58	BOT	555	537				
01/10	76	ROS	13:45	UTC	98	75° 35.62	070° 47.98	END						
01/10	78	CTD	15:30	UTC	99	75° 39.90	069° 42.78	BE	534					
01/10	78	CTD	15:40	UTC	99	75° 40.02	069° 43.25	BOT	535	523				
01/10	78	CTD	15:50	UTC	99	75° 39.48	069° 43.31	END						
01/10	80	CTD	17:32	UTC	100	75° 44.9	068° 42.1	BE	383			0		
01/10	80	CTD	17:40	UTC	100	75° 45.0	068° 42.05	BOT	377	366				
01/10	80	CTD	17:45	UTC	100	75° 45.158	068° 42.750	END		27				
01/10	82	ROS	19:34	UTC	101	75° 48.161	067° 57.152	BE	307			19		
01/10	82	ROS	19:42	UTC	101	75° 48.279	067° 57.506	BOT	297	256				
01/10	82	ROS	20:04	UTC	101	75° 48.566	067° 57.803	END						
END OF LEG 2														

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

[illegible]

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
- RF - recover mooring

POSITION CODE _____

RAD -	RADAR
GPS -	GLOBAL
LOB -	LOBAN