

CRUISE
NUMBER

9812

DAILY LOG 1/4
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

26 MARCH - 4 MAY

VESSEL

CCGS "PIERRE RADISSON"

PROJECT

NORTHWATER POLYNYA

LEG 1

To use the GIROQ Rosette :

In Seasure : Baud Rate must be 600

To download data :

Data cable → grey box

① F7 to baud rate @ 9600

① Wake-up F6

② F3 Status note ^{with} battery V, note memory

③ F9 Upload {out of Term 25}

④ DATCNV

IF running out of mem. change rate from 8 scan/sec to 4 scan/sec.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MARCH/APRIL			PIERRE RADISSON			9812 - NOW			1			
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 SCAN +	COMMENTS	
27	TEST1	SBE CTD	1904	BE	1	48° 48.016	068° 26.021		362			0		TEST WITH SEABIRD PACKAGE	
27	TEST1	SBE CTD	1918	BO	1	48° 48.078	068° 25.606							Cannot see live data on computer	
27	TEST1	SBE CTD	19:23	EN	1	48° 48.095	068° 25.537								
27	TEST2	FSI CTD	20 11	BE	2	48° 48.143	068° 26.432		360					Down to 27 dB. Wait 15 min. Back to 0 dB	
27	TEST2	FSI CTD	20 26	BO	2	48° 48.226	068° 26.125							Then ↓ Bottle 1 @ 350d missed.	
27	TEST2	FSI CTD	20 40	EN	2	48° 48.270	068° 25.872						6289		
4	A49	ROS	2303	BE	3	76° 17.192	074° 47.455		478					BASIC + M-M	
4	A49	ROS	2329	BO	3	76° 17.307	074° 47.803		A82	474	7329 → 7352	24	12631	1	
5	A49	ROS	0002	EN	3	76° 17.270	074° 48.378								
9	A2	ROS	2105	BE	4				291 645		7353 → 7370	18		MICROBE CAST	
9	A2	ROS		BO	4									TIME-SERIES STATION	
9	A2	ROS	2143	EN	4	78° 21.696	074° 42.657		290			18			
10	A2	ROS	00:40	BE	5	78° 20.338	074° 45.320		450		7371 → 7394	24		TS-STATION:	
10	A2	ROS		BO	5	78° 20.911	074° 41.416		590					DECK BULK BROKE OFF!	
10	A2	ROS	01:08	EN	5	78° 20.580	074° 42.129		587						

CAST TYPE -

BOT -

bottle cast
ctd
mooring

ROS -

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

Salinometer calibrated by Doug Sieberg 27 March '98.

Standard Water: $S = 34.994$
 $K = 0.99986$
Date = 18-Jul-1995
Stand-by = 24.6754
Standardize = 7.36

Stn A49, cast 0003:

Downcast	2801	5315	5290	5040
	2707	→ 5465	5790	<u>5290</u>
Upcast	5465	→ 12400		350
	12443			
T ₀	-1.8 → 0.57	S ₀	-2 → 0.6	5290
Sal:	33.26 → 34.4	S ₀	33.2 → 34.4	175
Flg			300 → 350	<u>2465</u>
Tr			0 → 0.5	

Cast 9, STN A2, PROFOUNDEURS

45%	6 m
30%	11 m
10%	24 m
1%	60 m
0.1%	100 m

Cast 4: Downcast 1805 to 3347
 Upcast 3433 to 7345
 T° -0.57 → -1.84 So -2.0 to -0.5
 Sal 34.2 32.89 So 32.8 to 34.2

Cast 5: Downcast: ~~1480~~
~~470~~ to 4086 Upcast 4087 to 9293
 T° -1.8 → -0.37 So 0 to -2
 Sal: 32.89 34.33 So 32.8 to 34.4

Cast #6 BOTTLES 1 7371 CONNIE 10-L @ 6m
 ALL @ 6m 2 7372 CONNIE 10L
 (45%) 3 7373 CONNIE 5L, JETTE 2L, BERNARD 3L
 4 7374 STEVE 5L, ANNICK 5L
 5 7375 ANNICK 10L

JETTE TEL 151 OR 400 (SAFES OFFICE)

Cast 8: Downcast 1483 → 2629 Upcast : 2630 → 7174
 T° -0.76 → -1.81
 Sal 32.9 → 34.05

CAST 6: 871 1790 1794 3222

CAST 7: 175 1143 - 1144 3742

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		APRIL		PIERRE RADISSON		9812		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
10	TEST3		2151		6	78° 16.832'N	076° 35.818'W		188	6m (ALL 5 BOTTLES)		5		IN LANDFAST ICE
10	TEST3		2158		6						7395 → 7418			OFF C. HERSHILL
10	TEST3		2206		6									
10	TEST4		2335		7	78 16.914'N	076 35.34'W		188	PAUL: RINKIN	1,3,5 → 189m			IN LANDFAST ICE
	TEST4		—		7						7,9,11 → 100m	12		OFF C. HERSHILL
10	TEST4		2351		7					RINKIN	13,15 → 2376m			HALF LOAD, ALTERNATE BOTTLES
											no BOT#s			
11	CAPE HERSHILL	ROS	0824	BE	8	78° 35.977	074° 20.641	Sc	189		7395 to 7418	24		PRIMARY PRODUCTION CAST
11	CH	ROS	0837	BO	8	78° 36.007	074° 20.729	Sc		185				Go to 50 m, wait 1 min, back to 50 m, then cast.
11	CH	ROS	0859	EN	8	78° 36.007	074° 20.729	Gr					7270	
11	A7	ROS	1228	BE	9	78 59.344	073° 16.611	Sc	250		7419 to 7439	21		BASIC BIOLOGY
11	A7	ROS	1247	BO	9	78 59.249	073° 17.577	Sc		245			8360	
11	A7	ROS	1306	EN	9	78 58.994	073° 19.620	Gr						
11	A7	ROS	1502	BE	10	78° 59.818	073° 15.042		252		7440 to 7460	21		BASIC CHEMISTRY
11	A7	ROS	1520	BO	10	78° 59.985	073° 15.777			246			8544	Go down to 50. P sensor stuck. Down again to
11	A7	ROS	1542	EN	10	78 59.743	073° 16.979							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
cid
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

Cast 9: DOWNCAST: 2343 TO 4042
UPCAST: 4043 TO 8200
T°: -1.8 -0.2
Sal: 32.6 34.6

Cast 10: DOWNCAST: 2570 → 3806
UPCAST: 3807 → 8110
T°: -1.8 -0.18
SAL: 32.6 34.5

11 APRIL:

LIGHT PROFILE:

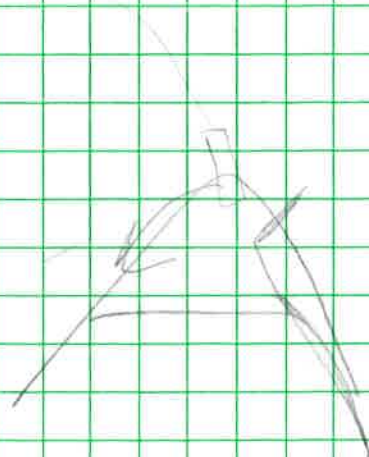
0.1%	107 m
1%	63 m
10%	26 m
30%	11 m
45%	7 m
100%	0

Cast 14: Downcast: 1407 → 2546
T° -0.49 → -1.83
Sal 34.08 → 32.6
Tr: 200 → 350

Upcast: 2547 → 6600

Cast 15: Downcast: 2534 → 4200
Upcast: 4201 → 8030
T° -1.7 → -0.19
Sal 32.6 → 34.5

Cast 16: Downcast: 1407 → 2739
Upcast: 2740 → 6484
T° -0.19 → -1.81
Sal 32.6 → 34.5



YEAR		1998			MONTH		APRIL		SHIP		PIERRE RADISSON		CRUISE		9812		PAGE		3		OF	
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11	A8	CJD	1734	BE	11	78 59.997N		072 45.864W			287	*NO Sounder	no bottles			trip touchdown OK						
11	A8	"		BO	11																	
11	A8	'	1805	EN	11	78 59.538		072 47.418					down 970-2876 up 2877-4140									
11	A9	BASIC	2134	BE	12	79 00.564		072 16.481			260	261		21		light profile from Pierre						
11	A9	BIO		BO	12								7463 → 7484									
11	A9		2159	EN	12	79 00.311		072 18.652														
11	A9	BASIC	2316	BE	13	79 00.200		072 16.140			240		7487 → 7498	11		(1/depth)						
11	A9	OTHER		BO	13																	
11	A9		2342	EN	13	78 59.858		072 17.094														
12	A7	ROS	0812	BE	14	79 00.557		073 11.331		Scaler	241		7499 → 7522	24	6671	PRIMARY PRODUCTION CAST						
12	A7	ROS	0825	BO	14	79 00.162		073 11.830		sal-i												
12	A7	ROS	0843	EN	14	79 00.149		073 11.815		Graph												
12	A7	ROS	1121	BE	15	78 59.976		073 18.281		Scaler	249		7523 → 7546	24		SUZUKI, UV. FULL CAST						
12	A7	ROS	1138	BO	15	78 59.583		073 20.629		sal-i		246			8190	Pressure sensor frozen						
12	A7	ROS	1159	EN	15	78 59.365		073 21.756		Graph												

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 APRIL, LIGHT PROFILE:

45%	7 m
30%	11 m
20%	15 m
10%	23 m
1%	55 m
0.1%	93 m

Cast 19:

Downcast	1998 → 5134
Upcast	5134 → 12900
T	-1.84 -0.38
Sal	32.9 34.31

Cast 20:

Downcast	1518 → 4102
Upcast	4103 → 12000
T	-1.8 -0.34
Sal	32.8 → 34.29

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

DAILY LOG															OCEAN PHYSICS		PAGE	OF
YEAR			MONTH			SHIP			CRUISE			4						
1998			APRIL			PIERRE RADISSON			9812									
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				
12	A7	ROS	1345	BE	16	78 59.897	073 16.220	Scaler	249		7547→7566			SUZUKI-MICROBE FULL STATION				
12	A7	ROS	1358	BO	16	78 59.897	073 16.220	sal-i		245		18		Pr sensor frozen. Lanyard of bottle 11 broken. #1 said microbe but was closed				
12	A7	ROS	1415	EN	16	78 59.535	073 16.319											
12	A7	BASIC	18:15	BE	17	79 00.898	073 12.342		250		7567-7584	18		CHEM BASIC bottles 252-200-150-100 2x@ 93, 55, 23, 15, 11, 7, 1, 0.1, 12, 10, 20, 30, 45, 80				
12	A7		18:25	BO	17	79 00.088	073 12.372											
12	A7		18:50	EN	17	78 59.339	073 14.971											
13	A89	CTD ONLY	00:15	BE	18	78 58.088	071 10.142		397		-	0		NEW STN - MID-TRANSIT IN THIN ICE				
13	A89	CTD	00:28	BO	18	78 58.088	071 10.142		392									
13	A89	CTD	00:40	EN	18	78 58.088	071 10.142											
13	A4	ROS	0419	BE	19	78 20.679	074 18.000	Scaler	604					BASIC STATION BIOLOGY				
13	A4	ROS	0443	BO	19	78 20.349	073 56.451	sal-i		600	7585→7608	21						
13	A4	ROS	0520	EN	19	78 19.786	073 57.754	Graph										
13	A4	ROS	0700	BE	20	78 21.551	073 51.815	Scaler	520					BASIC STATION, CHEMISTRY				
13	A4	ROS	0719	BO	20	78 20.998	073 52.423	sal-i		493	7609→7621	23	12034	Btle 1 said MF but closed.				
13	A4	ROS	0800	EN	20	78 20.552	073 53.552	Graph										

TIME CODE -

BE - beginning time of cast

DE - deployment time

POSITION CODE -

RAD - RADAR

GLOBAL

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

Cast 22:	Downcast	3678	6049
	Upcast	6050	11923
	T ^o	-1.8	-0.4
	Sal	32.9	34.2

Cast 21:	Downcast	1340	3313
	Upcast	3314	5275
	T ^o	-0.4	-1.8
	Sal	32.9	34.2

Cast 23:	Downcast	1745	3184
	Upcast	3185	6293
	T ^o	-1.8	-0.6
	Sal	32.9	34.1

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YEAR			MONTH			SHIP			CRUISE					PAGE		OF	
1998			APRIL			RADISSON			9812					5			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
13	A3	CTD	10:12	BE	21	78 20.438	074 19.620	Scale	470					CTD cast.			
13	A3	CTD	10:27	BO	21	78 20.360	074 19.827	sal-i		461	—	∅	5310				
13	A3	CTD	10:36	EN	21	78 20.246	074 20.032	Graph									
13	A2	ROS	11:36	BE	22	78 21.896	074 41.310	Scale	539		7632 → 7650	19	12018	TIME SERIES STATION METAZOAN + UV CAST			
13	A2	ROS	12:04	BO	22	78 21.779	074 41.324	sal-i		5				P sensor Frozen long E			
13	A2	ROS	12:31	EN	22	78 21.646	074 41.133	Graph									
13	A2	ROS	14:02	BE	23	78 21.437	074 40.426	Scale	624					TIME SERIES STATION MICROBE + UV + LOGGING			
13	A2	ROS	14:17	BO	23	78 21.410	074 40.115	sal-i		300	7651-7672	22	7651				
13	A2	ROS	14:35	EN	23	78 21.408	074 39.709	Graph									
13	A2	ROS	17:19	BE	24	78 22.041	074 43.764		? NO SOUNDING		7673-7695	23		TIME SERIES; UV-PHYTO-SOUNDING			
13	A2		17:34	BO	24	78 21.983	074 43.693		205 !!					touched bottom!			
13	A2		18:05	EN	24	78 21.811	074 43.844										
13	A2	ROST	19:45	BE	25	78 21.232	074 40.439		635		7696-7710	23		WAIT TO CLEAR ICE...			
13	A2		20:05	BO	25	78 21.157	074 40.421							CHEMISTRY			
13	A2		20:45	EN	25	78 20.991	074 40.415		641								
13	A2	ROS	23:10	BE	26	78 22.267	074 42.438		330		7721-7737			STILL SURPRISED AT DEPTH! BUT SOUNDING CORRECT.			
13	A2		23:22	BO	26	78 22.278	074 42.358										
13	A2		23:40	EN	26	78 22.267	074 42.343		340					UV + BENTHOS			

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

13 APRIL
LIGHT PROFILES:

0.1%	= 93 m
5CM	= 75 m
1%	= 55 m
10%	= 23 m
20%	= 16 m
30%	= 12 m
45%	= 7 m

Cast 27: Downcast 1208 → 1716
Upcast 177 → 4970
T° -1.8 -1.7
Sal 32.9 33.4

Cast 28: Downcast 1423 → 4169
Upcast 4170 → 8537
T° -1.8 -0.3
Sal 32.9 34.3

Cast 29: Downcast 1396 - 1861
Upcast 1862 - 4586
T° -1.8 -1.7
Sal 32.9 - 33.3

Cast 30: Downcast 2940 3310
Upcast 4330 4750
T° -1.8 -1.7
Sal 32.9 33.1

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YEAR 1998			MONTH APRIL			SHIP RADISSON			CRUISE 9812				PAGE 6 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
14	A2	ROS6	08:17	BE	27	78°22.653	074°38.321	Sealer	590		7738 → 7761			TIME-SERIES STATION PRIMARY PRODUCTION CAST
14	A2	ROS	08:25	BO	27	78°22.535	074°38.400	Sal-i		93		24	5025	
14	A2	ROS	08:40	EN	27	78°22.381	074°38.699	Graph						
14	A2	ROS	09:57	BE	28	78°21.588	074°39.853	Sealer	631		7762 → 7775			TIME-SERIES STATION PHYTO + MICROBE CAST
14	A2	ROS	10:17	BO	28	78°21.368	074°40.374	Sal-i		615		14		
14	A2	ROS	10:37	EN	28	78°21.234	074°40.795	Graph						
14	A2	ROS	11:54	BE	29	78°21.968	074°39.568	Sealer	627		7776 → 7789			TIME-SERIES STATION BASIC BIO (JETTY + UV)
14	A2	ROS	12:03	BO	29	78°21.898	074°39.764	Sal-i				14		
14	A2	ROS	12:15	EN	29	78°21.873	074°39.865	Graph						
14	A2	ROS	13:19	BE	30	78°21.811	074°40.274	Sealer	628		7790 → 7801			TIME-SERIES STATION METAZOAN CAST
14	A2	ROS	13:35	BO	30	78°21.820	074°40.293	Sal-i		76		12		P sensor frozen. Go down to 100. Go to 60, then 50 then 40.
14	A2	ROS	13:42	EN	30	78°21.830	074°40.300							
15	A14	ROS	18:51	BE	31	77°48.912	075°28.930		610		7802 → 7825		983	BASIC BIO STN.
15	A14	ROS	19:08	BO	31	77°48.980	075°28.497			592		23		BAD Transducer data.
15	A14	ROS	19:35	EN	31	77°48.933	075°27.769							
15	A14	ROS	20:52	BE	32	77°50.000	075°25.000		630		7826 → 7842		9152	BASIC CHEM STN
15	A14	ROS	21:06	BO	32	77°48.835	075°26.325			617		17		transm. dead but drifting signal -
15	A14	ROS	21:32	EN	32	77°48.715	075°25.720							

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

Cast 34: Downcast 1160 - 4586
 Upcast 4587 - 8070
 T -0.4 -1.7
 Sal 32.9 34.3

CAST 35: DOWNCAST 1177 - 1723
 UPCAST 1724 - 4960
 T -1.8 -1.5
 SAL 32.9 33.3

Cast 36: DOWNCAST 1728 - 4377
 UPCAST 4378 - 11811
 T -1.8 -0.4
 SAL 32.9 - 31.4

CAST 38 DOWNCAST 84 4195
 UPCAST 4196 10229

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			APRIL			RADISSON			9812			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	
16	A15	CTD	0210		33	77 50.135 N	074 55.515 W		689	683	---			CTD cast, no bottles	
16	A15	CTD	0231		33	77 49.915 N	074 55.224 W			683		0	BYH	transm. poor again on downcast (~200 m)	
16	A15	CTD	0244		33	77 49.804	074 55.077 W							drift on upcast	
16	A16	ROS	0347		34	77 49.652	074 25.118 W	sal	710	690	7843	3		FULL-BENTHOS + SAL	
16	A16	ROS	0406		34	77 49 213	074 25 305	sal	673	671			8133		
16	A16	ROS	0423		34	77 48.988	074 25.684	Graph							
16	A16	ROS	08:49	BE	35	77 50.068	074 26 775	Sal	730		7844 → 7867			FULL STATION PRIMARY PRODUCTION CAST	
16	A16	ROS		BO	35			Sal		100		24			
16	A16	ROS	09:13	EN	35	77 49.171	074 26 512	Graph							
16	A16	ROS	11:48	BE	36	77 48.658	074 23.694	Sal	644		7868 - 7889			FULL STATION UV + PHYTO	
16	A16	ROS	12:11	BO	36	77 47.902	074 23 787	Sal	629	625		22			
16	A16	ROS	12:43	EN	36	77 46 924	074 24 206	Graph							
16	A16	ROS	1643	BE	37	77 49.992	074 23.597		690		7890 → 7911			FULL STATION SUZUKI + MICROBE CAST	
16	A16	ROS	1655	BO	37	77 49.670	074 23.441			300		22			
16	A16	ROS	1715	EN	37	77 49.668	074 23.444								
16	A16	ROS	1948	BE	38 ^a	77 50.837	074 47.368 W		670		7912 → 7934	22		FULL CHEM	
16	A16	ROS		BO	38	77	074			550!				DRIFTED	
16	A16	ROS	2102	EN	38	77 47.368	074 13.986 W								

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

Cast 40

Downcast
Upcast

1021 → 2815
2816 → 6523

CAST 41:

DOWNCAST
UPCAST

1218- 3630
3631- 8100

CAST 42:

DOWNCAST
UPCAST

980 3651
3652 6262

CAST 43:

DOWNCAST
UPCAST

2081 - 3497
3498 - 7725

CAST 44

DOWNCAST
UPCAST

1084- 3512
3513- 9872

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR	1998		MONTH		APRIL		SHIP		RADISSON		CRUISE		9812		PAGE 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		
16	A16	ROS	2335		39	77 49.623 N	074 22.422 W		650		7936-7957	22		BASIC BIO		
16	A16	ROS	2354		39	77 49.084	074 21.542		610					strong wind, sunny -		
17	A16	ROS	0027		39	77 48.088	074 17.965							hooked by #20 was gone! fired extra bottle, moved BSA		
17	A25	ROS	0427	BE	40	77 21.539	074 49.106	Scal	669		7958 → 7976			BASIC BIO		
17	A25	ROS	0438	BO	40	77 21.179	074 48.733	Sal		300		19				
17	A25	ROS	0458	EN	40	77 20.892	074 48.633	Gr								
17	A25	ROS	07:23	BE	41	77 22.197	074 55.065	Sea	662					BASIC CHEMISTRY		
17	A25	ROS		BO	41			Sal		400	7977 → 7989	13		FORGOT TO GO TO THE BOTTOM		
17	A25	ROS	08:00	EN	41	77 20.832	074 54.985									
17	A24	CTD	10:17	BE	42	77 20.461	075 26.383	Scal	595							
17	A24	CTD	10:34	BO	42	77 19.780	075 25.873	Sal		580		0				
17	A24	CTD	10:46	EN	42	77 19.319	075 25.513	Graph								
17	A23	ROS	12:11	BE	43	77 20.580	075 58.783	Scal	538		7990 → 8008			BASIC STATION BIOLOGY CAST		
17	A23	ROS	12:27	BO	43	77 20.415	075 58.082	Sal		302		19				
17	A23	ROS	12:47	EN	43	77 20.297	075 57.643	Graph								
17	A23	ROS	14:26	BE	44	77 21.054	076 00.464	Scal	540		8009 → 8032			BASIC STATION CHEMISTRY CAST		
17	A23	ROS	14:43	BO	44	77 20.874	076 01.105	Sal		530		24				
17	A23	ROS	15:12	EN	44	77 20.431	076 01.395									

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

CAST	48	DOWNCAST	2730 →	4430
		UPCAST	443 →	8144

CAST	49	DOWNCAST	134 -	2870
		UPCAST	287 -	6629

CAST	50	DOWNCAST	4128	4590
		UPCAST	4591	7845

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH APRIL			SHIP PIERRE RADISSON				CRUISE 2812				PAGE 9 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	
17	A22	ROS	2112		45	77 20.525	076 28.909		428		8033 → 8049	17	BN	FULL SPN - UV - PHYTO-BENTHOS + SALT	
17	A22	ROS	2126		45	77 20.527	076 28.941			421.5				~ 2 mi' into landfast ice	
17	A22	FES	2143		45	77 20.529	076 29.082								
17	A22	ROS	2337		46	77 20.527	076 28.936		428		8050 → 8062	13		FULL - METAZOAN	
17	A22	ROS			46	77	076			50				ALL BOTTLES @ 50 m	
17	A22	ROS	2345		46	77 20.515	076 28.943								
18	A22	ROS	0135		47	77 20.497	076 28.849		425		8063 → 8082	20		FULL - SUZUKI/RINKIN	
18	A22	ROS	0144		47	77 20.511	076 28.847			420				Press sensor stuck down to 50 m & return to down to 100 m then back to 50 → OK...	
18	A22	ROS	0209		47	77 20.527	076 28.886								
18	A22	ROS	0316	BE	48	77 20.497	076 28.842	Scale	427		8083 → 8093	11	BON		
18	A22	ROS		BO	48			Gr		418					
18	A22	ROS	0354	EN	48	77 20.522	076 28.922	Graph							
18	A22	ROS	0649	BE	49	77 20.523	076 28.935	Scale	429				MR	JULIETTE + BERNARD	
18	A22	ROS	0702	BO	49	77 20.533	076 28.960	Sal		400	8094 → 8103	10			
18	A22	ROS	0720	EN	49	77 20.509	076 28.888	Gr							
18	A22	ROS	0811	BE	50	77 20.521	076 28.969	Scale	430		8104 → 8127			PRIMARY PRODUCTION	
18	A22	ROS	0833	BO	50	77 20.510	076 28.887	Sal		95		24			
18	A22	ROS	0848	EN	50	77 20.480	076 28.855	Gr							

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

Cast 55:	Down	1438	1944
	UP	1945	5647

CAST 56:	Down	1861	3948
	UP	3949	9232

CAST 53	Down	2399	3129
	UP	3130	5706

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		APRIL		RADISSON		2812		10		10				
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	A34	CTD	18:49	BE	51	77 00.903N	075 39.715W		520			0	Am	CTD Cast
18	A34	CTD	19:03	BO	51	77 00.578	075 39.580			495 (527 WIRE DEPT)				
18	A34	CTD	19:15	EN	51	77 00.378	075 39.557							
18	A33	ROS	20:27	BE	52	76 59.620	076 12.569		204		8128 → 8151			BASIC BIO STN
18	A33	ROS	20:51	BO	52	76 59.322	076 13.113			200.6				2x down to 100m → P stuck to free sensor
18	A33	ROS	21:10	EN	52	76 58.928	076 13.705							
18	A33	ROS	22:24	BE	53	76 59.000	076 13.696		199		8152 → 8170			BASIC Chem
18	A33	ROS	22:41	BO	53	76 58.863	076 13.752			193		18		
18	A33	ROS	22:53	EN	53	76 58.603	076 14.378							
19	A32	CTD	01:17	BE	54	77 00.281	076 49.276		164		—	3		CTD + 3 BOTTOM BOTTLES
19	A32	CTD	01:26	BO	54	77 00.238	076 49.413			163				
19	A32	CTD	01:33	EN	54	77 00.168	076 49.486							
19	A35	ROS	08:24	BE	55	76 59 888	075 03.197	Scale	550		8171 →			PRIMARY PRODUCTION Cast
19	A35	ROS	08:35	BO	55	76 59 814	075 03.062	Sal		100	8194	24		
19	A35	ROS	08:51	EN	55	76 59 723	075 02.985	Gr						
19	A35	ROS	10:09	BE	56	76 59.008	075 02.572	Scale	547		8195 → 8218			UV, JR 172, PHY TO
19	A35	ROS	10:27	BO	56	76 58.824	075 02.403	SW		537		24		+SALINITY SAMPLE
19	A35	ROS	10:52	EN	56	76 58.517	075 01.949	Graph						

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

LIGHT PROFILE 18-4-98 1430

100%	0	m
45%	6	m
30%	10	m
20%	14	m
10%	22	m
1%	53	m
0.1%	91	m

CAST	57	DOWNCAST	1617	3456
		UPCAST	3457	7865

CAST	60	DOWNCAST	2253	3576
		UPCAST	3517	6345

CAST	88	DOWNCAST	968	3394
		UPCAST	3395	8964

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			APRIL			RADISSON			9812			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	
19	A35	ROS	14:54	BE	57	77°00.187	075°01.799		557		8219 → 8239			MICROBES + SUZUKI	
19	A35	ROS	15:10	BO	57	76°59.870	075°01.985			400		21		FLUOROMETER FROZEN AT SURFACE	
19	A35	ROS	15:31	EN	57	76°59.432	075°02.061								
19	A35	ROS	18:08	BE	58	76°59.838	075°01.245		554		8240 → 8261			CHEM CAST	
19	A35	ROS			58					536		22			
19	A35	ROS	18:49	EN	58	76°58.809	075°02.073								
19	A31	ROS	21:58	BE	59	77°00.390	077°00.384		287		8262 → 8285	24		BIO CAST (BASIC)	
19	A31	ROS	22:10	BO	59	77°00.269	077°09.944			292					
19	A31	ROS	22:28	EN	59	77°00.087	077°10.181								
19	A31	ROS	23:41	BE	60	76°59.321	077°10.339		310		8286 → 8297			CHEM CAST (BASIC)	
19	A31	ROS	23:58	BO	60	76°59.134	077°10.544			304		12			
20	A31	ROS	00:11	EN	60	76°58.972	077°10.648								
20	A30	CTD	02:04	BE	61	77°01.116	077°31.856		197					CTD Cast	
20	A30	CTD	02:12	BO	61	77°01.130	077°31.945								
20	A30	CTD	02:19	EN	61	77°01.114	077°31.826								
20	A44	CTD	07:11	BE	62	76°23.655	077°24.188	Scal	330					CTD cast	
20	A44	CTD	07:24	BO	62	76°23.578	077°24.146	Scal		330		0		PROBLEM WITH TRAWS NO PROB. WITH FLEO	
20	A44	CTD	07:30	EN	62	76°23.529	077°24.205								

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW

see water log

TIME CODE

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

CAST 62: D 1477 → 2790
U 2791 → 4060

CAST 63 DOWNCAST 1327 → 2666
UPCAST 2667 → 6813

CAST 64 DOWNCAST 2347 → 3562
UPCAST 3563 → 7370

CAST 67 777- 2016
2017- 4840

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH				SHIP				CRUISE				PAGE	
1998		APRIL				PIERRE RADISSON				9812				12 OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
20	A45	CTD	10:26	BE	63	76 20.558	077 01.256	✓	298					BASIC BIOLOGY CAST	
20	A45	CTD	16:39	BO	63	76 20.470	077 01.197	✓		290	8298 → 8318	21			
20	A45	CTD	10:58	EN	63	76 20.283	077 01.326	✓							
20	A45	ROS	12:50	BE	64	76 19.471	077 01.926	✓	297					BASIC CHEMISTRY CAST	
20	A45	ROS	13:03	BO	64	76 19.471	077 01.926	✓		290	8319 → 8336	18			
20	A45	ROS	13:20	EN	64	76 19.348	077 02.032	✓							
20	A46	CTD	15:21	BE	65	76 20.216	076 27.822	✓	163					CTD cast	
20	A46	CTD	15:38	BO	65	76 20.163	076 27.756			160		Ø			
20	A46	CTD	15:41	EN	65	76 20.149	076 27.884								
20	A47	ROS	18:01	BE	66	76 19.643	075 53.083		295		8337 → 8360			BASIC BIOL STN	
20	A47	ROS	18:10	BO	66	76 19.646	075 53.158			320		23		BOT 24 BEING REPAIRED --- BUNGY ON BOT 18 LET GO	
20	A47	ROS	18:22	EN	66	76 19.200	075 53.294								
20	A47	ROS	20:09	BE	67	76 19.108	075 53.488		325		8361 → 8390			BASIC Chem	
20	A47	ROS	20:21	BO	67	76 19.310	075 53.548			326		9		WINCH-SPOOLER NOISY: CUT GROOVE IN GUIDE ROLLER WHEN ICED-UP!	
20	A47	ROS	20:31	EN	67	76 19.268	075 53.584								
20	A48	ROS	22:37	BE	68	76 17.759	075 18.064		394			3		CTD & BENTHOS (NO ROSETTE LOG SHEET.)	
20	A48	ROS	22:48	BO	68	76 17.667	075 18.152			385					
20	A48	ROS	22:57	EN	68	76 17.642	075 18.151							SAL. SAMPLE FROM BOT #3 @ 384.9m	

CAST TYPE -

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

USW - sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

Cast 69: DOWNCAST
 UPCAST

1252- 1642
1643- 5140

CAST 70: DOWNCAST
 UPCAST

1197- 2565
2566- 7137

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		1998		MONTH		APRIL		SHIP		RADISSON		CRUISE		9812		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			
21	A44	ROS	08:24	BE	69	76 22.269	077 25.238	/	395		8371 →			PRIMARY PRODUCTION			
21	A44	ROS	08:31	BO	69	76 22.249	077 25.156	/		91	8393	23					
21	A44	ROS	08:48	EN	69	76 22.166	077 25.269	/									
21	A44	ROS	10:20	BE	70	76 22.947	077 23.148	/	358					UV + PHYTO -			
21	A44	ROS	10:32	BO	70	76 22.846	077 23.060	/		353	8394 → 8416	23					
21	A44	ROS	10:53	EN	70	76 22.705	077 23.261	✓									
21	A44	ROS	15:33	BE	71	76 22.822	077 24.364		373					MICROGES + SUZUKI 2M TRY			
21	A44	ROS	15:47	BO	71	76 22.682	077 24.447			301	8417 → 8439	23		FLUOROMETER FROZEN 12 185 m			
21	A44	ROS		EN	71	76 22.500	077 24.489										
21	A44	ROS	17:08	BE	72	76 22.869	077 24.495		395		8440 → 8452			FULL STN - METAZOAN			
21	A44	ROS	17:19	BO	72	76 22.901	077 24.506			50			12				
21	A44	ROS	17:17	EN	72	76 22.887	077 24.544										
21	A44	ROS	18:01	BE	73	76 21.434	077 24.542		400		8455 → 8470			FULL STN - CHEM			
21	A44	ROS	18:41	BO	73	76 21.363	077 24.615			396			16	Wrecked Bot #12 did not close → disconnect lanyard repair			
21	A44	ROS	18:53	EN	73	76 21.252	077 24.687							Cast 73a to get another bot but aborted to manoeuvre ship			
22	A92	CTD	01:18	BE	74	76 03.068	077 21.442		378					CTD Stn -			
22	A92	CTD	01:24	BO	74	76 03.042	077 21.563			368				Transmiss. bad in downcast Mixed layers 80m			
22	A92	CTD		EN	74												

CAST TYPE -

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

USW - sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

CAST 75

DOWNCAST
UPCAST

1083- 2160
2161- 3266

CAST 76

DOWNCAST
UPCAST

993 - 2640
2641 - 4325

CAST 77

DOWN
UP

318- 2856
2857- 5163

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR				MONTH		SHIP				CRUISE				PAGE		OF	
1998				AVRIL		RADISSON				9812				14		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	A93	CTD	0518	BE	75	76°02.872	076°19.605	/	282								
22	A93	CTD	0528	BO	75	76°02.839	076°19.636	✓		279		Ø					
22	A93	CTD	0533	EN	75	76°02.834	076°19.534	✓									
22	A94	CTD	0919	BE	76	76°02.765	075°23.142	✓	342						LOTS OF ICE. SCARY...		
22	A94	CTD	0932	BO	76	76°02.789	075°23.246	✓		334		Ø					
22	A94	CTD	0941	EN	76	76°02.795	075°23.296	✓									
22	A95	CTD	1330	BE	77	76°03.176	074°19.810	/	405						3 bottles for Richard @ 200, 100, 30.		
22	A95	CTD	1343	BO	77	76°03.148	074°19.747	✓		397	NO NUMBERS		3				
22	A95	CTD	1355	EN	77	76°03.121	074°19.654										
22	A49	ROS	2310	BE	78	76 20.150	074 41.951		469	1	8471-8494		24	UV & SUZUKI LONG			
22	A49	ROS	2323	BO	78	76 20.208	074 41.971		472	458.7				no wind, thin ice, sunny!			
22	A49	ROS	2344	EN	78	76 20.235	074 42.176										
23	A49	ROS	0050	BE	79	76 20.151	074 41.951		473		8495-8518			BIO - RIVKIN	LONG		
23	A49	ROS	0105	BO	79	76 20.265	074 42.515			462							
23	A49	ROS	0124	EN	79	76 20.239	074 42.618										
23	A49	ROS	0219	BE	80	76 20.179	074 42.734		474		NOTE	3		BENTHOS + Sal			
23	A49	ROS	0224	BO	80	76 20.177	074 42.743			462				(BOT#3)			
23	A49	ROS	0233	EN	80	76 20.179	074 42.694										

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

22 APRIL LIGHT PROFILE

79	m	01	%
53	m	1	%
26	m	10	%
18.4	m	20	%
14	m	30	%
9	m	45	%
0	m	100	%

CAST	81	DOWNCAST	1067	1462
		UPCAST	1463	4020

CAST	82	DOWNCAST	1050-	1462
		UPCAST	1463-	4693

CAST	83	DOWNCAST	898 -	2655
		UPCAST	2656 -	6768

CAST	84	DOWNCAST	1075 -	1854
		UPCAST	1855 -	4473

CAST	85	DOWNCAST	945 -	2647
		UPCAST	2648 -	7804

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE						
1998		APRIL		RADISSON		9812		15 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	A49	ROS	0459	BE	81	76° 19. 718	074° 41.835	✓	468					TIME-SERIES STATION SUZUKI CAST + UV
23	A49	ROS	0506	BO	81	76° 19. 700	074° 41.902	✓		101	8519-8535	17		
23	A49	ROS	0518	EN	81	76° 19. 646	074° 41. 638	✓						
23	A49	ROS	0824	BE	82	76° 19. 188	074° 40. 249	✓	468					PRIMARY PRODUCTION
23	A49	ROS	0831	BO	82	76° 19. 191	074° 40. 202	✓		99	8536 → 8559	24		
23	A49	ROS	0846	EN	82	76° 19. 198	074° 40. 188	✓						
23	A49	ROS	1001	BE	83	76° 19. 224	074° 40. 304	✓	464					JOE + SILICA + PHYTO
23	A49	ROS	1014	BO	83	76° 19. 212	074° 40. 306	✓		453	8560 → 8572	13		
23	A49	ROS	1033	EN	83	76° 19. 201	074° 40. 408	✓						
23	A49	ROS	1213	BE	84	76° 19. 195	074° 40. 983	✓	465					MICROBES + METAZOA
23	A49	ROS	1222	BO	84	76° 19. 178	074° 40. 978	✓		200	8573 → 8593	21		
23	A49	ROS	1235	EN	84	76° 19. 205	074° 41. 068	✓						
23	A49	ROS	1328	BE	85	76° 19. 117	074° 41. 109		466					CHEMISTRY
23	A49	ROS	1341	BO	85	76° 19. 091	074° 41. 170			456		22		
23	A49	ROS	1404	EN	85	76° 19. 001	074° 41. 238							
24	A49	ROS	17 ⁵²	BE	86	76° 14. 587	074° 34. 454		446		8616-8620	5		CAST 250 m FROM SEACAGE
24	A49	ROS	1801	BO	86	76° 14. 476	074° 34. 229							1 SUZUKI 245 UV 344 CHEM
24	A49	ROS	1814	EN	86	76° 14. 339	074° 34. 037							

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

LIGHT PROFILE 26 APRIL @ A14 :

0.1 %	95 m
1 %	57 m
10 %	23 m
20 %	15 m
30 %	10 m
45 %	7 m

CAST 87 Downcast
Upcast

1490- 3902
3903- 9028

CAST 88 Downcast
Upcast

1049 - 3360
3361 - 8989

CAST 89 Downcast
Upcast

1187- 4236
4237- 7000

CAST 90 Downcast
Upcast

868- 4019
4020- 9742

CAST 91 Downcast
Upcast

1197- 4150
4151- 10650

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		APRIL		PIERRE RADISSON		9812		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
26	A14		00:06		87	77 49.895	075 28.948	✓	594		8621 → 8642			BASIC BIO
26	A14		03:27		87	77 49.880	075 28.938	✓		580		22		
26	A14		03:52		87	77 49.890	075 28.949	✓						
26	A14	ROS	06:02	BE	88	77 49.912	075 28.873	✓	592					BASIC CHEMISTRY
26	A14	ROS	06:18	BO	88	77 49.912	075 28.951	✓		579	8645 → 8662	18		
26	A14	ROS	06:44	EN	88	77 49.890	075 28.932	✓						
26	A15	CTD	08:46	BE	89	77 50.702	074 53.254	✓	705					
26	A15	CTD	09:06	BO	89	77 50.407	074 53.236	✓		689		Ø		
26	A15	CTD	09:23	EN	89	77 50.108	074 53.319	✓						
26	A16	ROS	11:08	BE	90	77 49.549	074 26.839	✓	710					BASIC BIOLOGY
26	A16	ROS	11:27	BO	90	77 49.243	074 27.049	✓		698	8663 → 8683	21		
26	A16	ROS	11:54	EN	90	77 48.811	074 27.491	✓						
26	A16	ROS	13:36	BE	91	77 49.365	074 26.553	✓	710					BASIC CHEMISTRY
26	A16	ROS	13:56	BO	91	77 49.319	074 27.010	✓		698	8684 → 8697	13		
26	A16	ROS	14:26	EN	91	77 49.333	074 27.536	✓	718					
26	A17	CTD	16:05	BE	92	77 50.126	073 35.090		265		none			CTD only (P _{seu} 35)
26	A17	CTD	16:16	BO	92	77 50.307	073 35.015			262		0		chlorophyll max @ 50m
26	A17	CTD	16:22	EN	92	77 50.389	073 35.076							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
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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

LIGHT PROFILE FROM SUZANNE,
26 - APRIL

45 f.	8 m
30 f.	12 m
20 f.	16 m
10 f.	23 m
1 f.	45 m
0.1 f.	68 m

CAST	96	DOWNCAST	1264-	2668
		UPCAST	2669-	7256

CAST	97	DOWNCAST	11119-	2338
		UPCAST	2339-	6250

CAST	98	DOWNCAST	986-	1531
		UPCAST	1532-	3845

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		APRIL		PIERRE RADISSON		9812		17						
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	A18	ROS	18:45		93	77 50.381	073 04.406		161		8698 → 8720			BASIC BIO
26	A18	ROS	18:52		93	77 50.421	073 04.273			158		23		
26	A18	ROS	19:07		93	77 50.544	073 04.108							
26	A18	ROS	20:25		94	77 51.016	073 02.341		158		8721 → 8735			BASIC CHEM
26	A18	ROS	20:32		94	77 51.054	073 02.076			159		15		
26	A18	ROS	20:44		94	77 51.128	073 01.939							
27	A27	ROS	02:56		95	77 22.998	073 50.023		344		not used			FULL STN
27	A27	ROS	03:11		95	77 23.192	073 49.838					24		PRIMARY PRODUCTION
27	A27	ROS	03:31		95	77 23.367	073 49.644							
27	A27	ROS	05:40	BE	96	77 20.694	073 47.259	✓	360					JETTE + SILICA + PHYTO
27	A27	ROS	05:52	BO	96	77 20.744	073 47.169	✓	354	349	8736 → 8752	17		
27	A27	ROS	06:14	EN	96	77 20.781	073 46.994	✓	351					
27	A27	ROS	08:08	BE	97	77 20.963	073 46.778	✓	338					MICROBES + SUZUKI
27	A27	ROS	08:18	BO	97	77 20.998	073 46.989	✓		301	8753 → 8775	23		
27	A27	ROS	08:37	EN	97	77 21.085	073 47.337	✓						
27	A27	ROS	09:32	BE	98	77 21.481	073 48.846	✓	344					METAZOAN + UV
27	A27	ROS	09:39	BO	98	77 21.553	073 49.116	✓		111	8776 → 8797	22		
27	A27	ROS	09:50	EN	98	77 21.680	073 49.487							

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 1998				MONTH APRIL		SHIP PIERRE RADISSON				CRUISE 9812				PAGE 18 OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
27	A27	ROS	1137	BE	99	77 23.484	073 53.141	✓	362					CHEMISTRY	
27	A27	ROS	1148	BO	99	77 23.759	073 53.348	✓	369	359	8798 → 8819	22			
27	A27	ROS	1207	EN	99	77 24.227	073 53.640	✓							
27	A27	ROS	1458	BE	100	77 28.090	073 56.170	✓	388					UV	
27	A27	ROS	1508	BO	100	77 28.387	073 56.757	✓		200	8820 → 8834	15			
27	A27	ROS	1524	EN	100	77 28.765	073 58.207								
27	A26	CTD	18:35	BE	101	77 20.342	074 19.462		—					new light profile (Pierre) @ 1400 (1800 UTC 04/27) see opposite page CTD	
27	A26	CTD	18:58	BO	101	77 20.554	074 20.384			712 (none 720 wire)					
27	A26	CTD	19:11	EN	101	77 20.636	074 20.673								
27	A25	ROS	20:16	BE	102	77 20.054	074 52.831		676?		8835 → 8858			BASIC BIO	
27	A25	ROS	20:35	BO	102	77 19.845	074 53.297			650		22		Stormy!	
27	A25	ROS	20:05	EN	102	77 19.563	074 54.084								
27	A25	ROS	22:55	BE	103	77 18.948	074 57.214		661		8859-8871			BASIC CHEM	
27	A25	ROS	23:12	BO	103	77 18.902	074 56.862			647		12			
27	A25	ROS	23:34	EN	103	77 18.896	074 58.437								
28	A24	CTD	01:29	BE	104	77 21.510	075 24.837		590					CTD only	
28	A24	CTD	01:43	BO	104	77 21.738	075 24.763			585		0			
28	A24	CTD	01:57	EN	104	77 21.889	075 24.590								

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
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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

Light profile from Pierre before cast #107:

from 9 days
ago as
profiler was
in shade of
ship

$$0.1\% = 90 \text{ m}$$

12-51 m

10% = 22%

20% = 13 m

$$30\% = 10\%$$
$$45^\circ \text{Z} = 7 \text{ m}$$

Cast 109 249-2961 2962-4723

Cast 110 1168- 2125 2126- 3568

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE	OF
						RADISSON			9812					19	
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	A23	ROS	03:04	BE	105	77 21.014	075 56.677	✓	543		8892 → 8895			BASIC BIO	
28	A23	ROS	03:35	BO	105	77 21.023	075 56.712			530		23			
28	A23	ROS	04:05	EN	105	77 21.017	075 56.704					23			
28	A30	CTD	16:46	BE	106	77 01.257	077 32.088		204					transmission signal bad! CTD in landfast ice	
28	A30	CTD	16:53	BO	106	77 01.245	077 32.016			203.5				Sun, no wind,	
28	A30	CTD	16:58	EN	106	77 01.251	077 32.077							spectacular mountains	
28	A35	ROS	23:41	BE	107	76 58.151	075 04.386		545		8896 → 8919			BASIC BIO	
28	A35	ROS	23:55	BO	107	76 58.413	075 04.539			532		24		transmission start ok then drops, return on way back up...	
29	A35	ROS	00:17	EN	107	76 58.330	075 04.685							lost buoy 19 before, 11 during cast	
29	A35	ROS	01:37	BE	108	76 58.195	075 04.254		544		8922 → 8933			BASIC CHEM	
29	A35	ROS	01:54	BO	108	76 58.208	075 04.252			533				light profile: see opposite	
29	A35	ROS	02:12	EN	108	76 58.212	075 04.421							cleaned Transm. lens → better signal	
29	A34	CTD	03:59	BE	109	77 00.400	075 37.657	✓	510		—			CTD cast	
29	A34	CTD	04:13	BO	109	77 00.413	075 37.622	✓		499		0			
29	A34	CTD	04:22	EN	109	77 00.383	075 37.613								
29	A33	ROS	06:26	BE	110	77 00.309	076 13.444		213					BASIC BIOLOGY	
29	A33	ROS	06:36	BO	110	77 00.261	076 13.143			208	8934 → 8955	22			
29	A33	ROS	06:52	EN	110	77 00.159	076 13.078								

CAST TYPE - BOT - bottle cast
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TIME CODE - BE - beginning time of cast
BO - bottom time of cast
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DE - deployment time
MR - messenger release
RE - recover mooring

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

CAST 111 Down 1144- 2153
 Up 2155 2991

cast 112 Down
 Up 800 - 2669
 2670 - 6605

Cast 113 Down 1024 2285
 Up 2286 4153

Cast 114 Down 2174- 2986
 Up 2987- 3789

Cast 115 On 747 → 2070

Cast 116 down 733 2525

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP				CRUISE				PAGE		OF	
1998		APRIL			RADISSON				9812				20			
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	A32	CTD	0920	BE	111	76° 58.714	076° 48.433		184					TRANSMISSION NOT GOOD		
29	A32	CTD	0930	BO	111	76° 58.635	076° 48.332			183		1				
29	A32	CTD	0934	EN	111	76° 58.611	076° 48.312									
29	A31	ROS	23:56	BE	112	76° 59.498	077° 09.241		304		8956 → 8979			BASIC BIO ^{new crew}		
30	A31	ROS	00:09	BO	112	76° 59.450	077° 09.348		?	298				again very poor data		
30	A31	ROS	00:27	EN	112	76° 59.438	077° 09.397							from replaced transmission (took off #598, put on #171)		
30	A45	ROS	0944	BE	113	76° 20.482	077° 04.021		295					disassembled Pie-Connector of		
30	A45	ROS	0955	BO	113	76° 20.347	077° 04.005			290	8980 → 8982	3		or FSE - swapped back		
30	A45	ROS	1004	EN	113	76° 20.281	077° 04.034				(UV)			Trans #598 before this cast		
30	A46	CTD	1206	BE	114	76° 19.960	076° 30.928		169					STILL NOT WORKING		
30	A46	CTD	1220	BO	114	76° 19.898	076° 30.843			168		1		DRIFTS & WITH DEPTH		
30	A46	CTD	1224	EN	114	76° 19.861	076° 30.957							TRANS <u>OK!!!</u> 😊		
30	A47	ROS	18:09	BE	115	76° 19.790	075° 52.374		324		8983-8992			SBE-CTD intercomparison		
30	A47	ROS	18:19	BO	115	76° 19.730	075° 52.454			318		10		BASIC BIO cast		
30	A47	ROS	18:32	EN	115	76° 19.688	075° 52.393							trans bad ↓ OK↑		
30	A48	CTD	21:27	BE	116	76° 18.326	075° 17.076		402		8993			CTD + 4 Benthos water		
30	A48	CTD	21:39	BO	116	76° 18.216	075° 17.017			394	for Salinity	4		secchi = 19m		
30	A48	CTD	21:47	EN	116	76° 18.161	075° 17.051									

CAST TYPE - BOT - bottle cast
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TIME CODE -

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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

Cast 119 805 2712

Cast 119 1177- 3177
3178- 5015

Cast 120 986- 2890
2891- 8360

CAST 121 1055- 3134
3135 8189

Light profile from Suzanne Roy; $K_d = 0.086$
(30 April @ 19:20)

% light	depth
100%	surf
45%	9 m
30%	14 m
20%	19 m
10%	27 m
1%	54 m
0.1%	80 m

Cast 122 down 866 - 2715

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		MAY		PIERRE RADISSON		9812		21						
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
1	A49	ROS	00:45		117	76 16.594	074 39.801		456		8994 → 9018			BASIC BIO
1	A49	ROS	00:57		117	76 16.554	074 39.786			449.1		24		tight profile from Suzanne (catches secchi depth by Jean Eric)
1	A49	ROS	01:23		117	76 16.408	074 39.795				have & trapping problems.			switched to 120V
1	A49	ROS	02:11		118	76 16.273	074 39.751		455		repeat of cast 117			to only 100 m: bottle problem
1	A49	ROS	02:16		118	76 16.269	074 39.820			100				
1	A49	ROS	02:24		118	76 16.254	074 39.668							no problems this time
1	A96	CTD	0750	BE	119	76 26.801	074 47.333		561?					
1	A96	CTD	0810	BO	119	76 26.675	074 47.405			524		Ø		
1	A96	CTD	0819	EN	119	76 26.608	074 47.412							
1	A97	ROS	1002	BE	120	76 39.191	074 59.042		454?					BIOLOGY BASIC
1	A97	ROS	1016	BO	120	76 39.035	074 59.086		466?	447	9013 → 9036	24		
1	A97	ROS	1041	EN	120	76 38.789	074 58.932							
1	A97	ROS	1233	BE	121	76 37.435	074 59.061		475?					BASIC CHEMISTRY
1	A97	ROS	1248	BO	121	76 37.305	074 59.124		480	472	9037 → 9053	17		
1	A97	ROS	1311	EN	121	76 37.107	074 59.181							
1	A98	CTD	16:42	BE	122	76 48.605	075 00.106		485?					Secchi - 19m - Shade
1	A98	CTD	16:54	BO	122	76 48.555	075 00.311			475		Ø		CTD cast
1	A98	CTD	17:03	EN	122	76 48.513	075 00.312							

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

129 : down 730 → 2462

124 : down 1026 → 3608

Cast	126	Down	1076 - 3601
		UP	3602 - 9290

CAST	127	Down	1084 - 2415
		UP	2416 - 3860

CAST	128	DOWN	1084 - 2526
		UP	2527 - 7637

CAST	129	DOWN	1084 - 2479
		UP	2480 - 5770

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE					PAGE		OF	
1998		MAY			PIERRE RADISSON		9812					22			
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	
1	A35	ROS	20:26	BE	123	76 58.644	075 03.394		545		9054→9066			FULL - CHEM	
1	A35	ROS	20:40	BO	123	76 58.500	075 03.585			538		13	#8	bunty went before cast	
1	A35	ROS	20:58	EN	123	76 58.305	075 03.814								
1	A35	ROS	23:30	BE	124	76 56.600	075 05.698		525		9067→9088			FULL - COMBINED	
1	A35	ROS	23:45	BO	124	76 56.459	075 05.907			517		22			
2	A35	ROS	00:08	EN	124	76 56.224	075 06.378								
2	A35	ROS	01:19	BE	125	76 55.690	075 07.182		515		9092→9115			FULL - PRIMARY Prod	
2	A35	ROS			125					80 m		24	2		
2	A35	ROS	01:36	EN	125	76 55.653	075 07.138								
2	A36	ROS	0352	BE	126	77 00 621	074 21.767	✓	593					BASIC Bio	
2	A36	ROS	0410	BO	126	77 00 645	074 21.782	✓		583	9116→9139	24			
2	A36	ROS	0436	EN	126	77 00.679	074 21.391	✓							
2	A37	CTD	0655	BE	127	77 00 398	073 46 131	✓	316						
2	A37	CTD	0706	BO	127	77 00.418	073 46 202	✓	318	313		0			
2	A37	CTD	0713	EN	127	77 00.388	073 46 295	✓							
2	A38	ROS	1001	BE	128	76 59.897	073 13.099	✓	330					TRANSMISSOMETER NOT GOOD	
2	A38	ROS	1013	BO	128	76 59 891	073 13.060	✓		325	9140→9165 9162, 9157, 9159	24		BASIC BIOLOGY	
2	A38	ROS	1037	EN	128	76 59.858	073 13 138	✓							

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

CAST 130 DOWN 1257- 2825
UP 2826- 4355

cast 131 down 683 → 2866

Cast 132 down 948 → 3109

133 down 953 → 3085

134 down 965 → 3216

2 May 15:30 (local)

Light profile from JETremblay: $K_d = 0,113$

0.1%	= 61 m
1%	= 41 m
10%	= 20 m
20%	= 14 m
30%	= 11 m
45%	= 7 m
100%	= 0

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR	1998			MONTH	MAY		SHIP	PIERRE RADISSON			CRUISE	9812		PAGE	23	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			
2	A38	ROS	11:44	BE	129	76 59.730	073 13.521	/	307					BASIC CHEMISTRY			
2	A38	ROS	11:56	BO	129	76 59.665	073 13.488	/		305	9166 → 9175	10		TOUCHED BOTTOM WEIGHT DID NOT WORK.			
2	A38	ROS	12:11	EN	129	76 59.627	073 13.433	/									
2	A39	CTD	13:17	BE	130	76 59.808	072 49.357	✓	391					CTD			
2	A39	CTD	13:31	BO	130	76 59.780	072 49.215	✓		382		φ					
2	A39	CTD	13:38	EN	130	76 59.754	072 49.230										
2	A40	ROS	17:56	BE	131	76 59.361	072 30.642		510		9176 → 9199			FULL - CHEM			
2	A40	ROS	18:10	BO	131	76 59.367	072 30.695			495				no new light% yet.			
2	A40	ROS	18:31	EN	131	76 59.342	072 30.888										
2	A40	ROS	21:50	BE	132	76 58.851	072 30.055		516		9200 → 9223			FULL - MICROBES, SUZUKI			
2	A40	ROS	22:04	BO	132	76 58.741	072 29.998			510		24		new lightprofile from JE Trumbley, Kd = 0.113			
2	A40	ROS	22:24	EN	132	76 58.644	072 29.830										
2	A40	ROS	23:33	BE	133	76 58.147	072 29.326		514		9224 → 9247			FULL - METAZOAN + UV - COMBO -			
2	A40	ROS	23:48	BO	133	76 58.031	072 29.237			510		24		better transmission meter traces			
3	A40	ROS	00:09	EN	133	76 57.896	072 29.106							now instrument doesn't freeze and water temp above freezing levels.			
3	A40	ROS	02:08	BE	134	76 57.294	072 28.304		530		9248 → 9271	24		FULL - BASIC & SILICA + 4 BEWTHOS			
3	A40	ROS	02:24	BO	134	76 57.257	072 28.197			520							
3	A40	ROS	02:46	EN	134	76 57.241	072 28.078										

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

~~Cast 134: down 965 - 3216~~

CAST 135 D 960- 1230
U 1231- 4076

Jean Eric Light%

100%	0	
45%	9	"
30%	13	
20%	17	
10%	25	
1%	49	
0.1%	74	99

Cast 136: 997 → 3968

Suzanne:
K_{ol} = 0.0696

CAST 137: 917 3612
3613 9209

CAST 138 D 924- 1279
U 1280- 4097

CAST 139 Down 977 3237
UP 3238 5325

CAST 140 Down 1076 4757
UP 4758- 10649

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE			PAGE		OF	
1998		MAY			PIERRE RADISSON			9812			24			
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
3	A40	ROS	0353	BE	135	76 57 234	072 28 085		530		9272→9295			FULL-PRIMARY+SILICA
3	A40	ROS	0400	BO	135	76 57 219	072 28 185			61		24		
3	A40	ROS	0415	EN	135	76 57 252	072 28 290							
3	A54	ROS	23:18	BE	136	76 18.927	071 50.768		560		9296→9318			FULL-CHEM
3	A54	ROS	23:36	BO	136	76 19.079	071 51.297			595		24		
3	A54	ROS	00:00	EN	136	76 19.235	071 51.980							
4	A54	ROS	03:37	BE	137	76 19.721	071 54.334	✓	600?		9320→9337			386 for CTD: monitor stopped working → Swapped VideoCard with other 386 → now both work
4	A54	ROS	03:50	BO	137	76 19.910	071 54.659	✓		605		18		
4	A54	ROS	04:15	EN	137	76 20 113	071 54 849	✓						
4	A54	ROS	05:34	BE	138	76 20.893	071 56.046	✓	600?					PRIMARY PRODUCTION
4	A54	ROS	05:41	BO	138	76 20.889	071 56 016	✓		76	9338-9360	23		
4	A54	ROS	05:54	EN	138	76 21 027	071 56 333	✓						
4	A53	CTD	0741	BE	139	76 18 016	072 22 574	✓	549					
4	A53	CTD	0756	BO	139	76 18 113	072 22 781	✓	555	544		Ø		
4	A53	CTD	0806	EN	139	76 18.183	072 22.697	✓						
4	A52	ROS	0917	BE	140	76 18.212	073 06.330	✓	500?					BASIC BIOLOGY
4	A52	ROS	0940	BO	140	76 18.312	073 06 628			615	9361→9378	18		
4	A52	ROS	1007	EN	140	76 18 369	073 06.917							

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

CAST

141

1145 - 3627

3628 - 5470

CAST

142

1015 - 2749

2750 - 4471

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

[illegible]

CRUISE
NUMBER

9812

DAILY LOG ²/₄
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

7 MAY - 10 JUNE 1998

VESSEL

PIERRE RADISSON

PROJECT

NORTHWATER POLYNIA

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			RADISSON			9812			1		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	
7	B100	ROS	1242	BE	143	76 37.953	077 00.591	✓	227					BASIC BIOLOGY	
7	B100	ROS	1252	BO	143	76 37.935	077 00.485	✓	226	223	9379 → 9399	21			
7	B100	ROS	1309	EN	143	76 37.921	077 00.485	✓	227						
7	B100	ROS	1433	BE	144	76 37.805	077 00.473	✓	226					BASIC CHEMISTRY	
7	B100	ROS	1442	BO	144	76 37.803	077 00.485	✓		223	9400 → 9418	19			
7	B100	ROS	1501	EN	144	76 37.768	077 00.356	✓							
7	B102	ROS	1955	BE	145	76 36.039	076 29.283	✓	112					CHEMISTRY CAST	
7	B102	ROS	2002	BO	145	76 36.020	076 29.247	✓	112	110	9419 → 9434	16			
7	B102	ROS	2015	EN	145	76 36.036	076 29.260	✓	112						
7	B102	ROS	2332	BE	146	76 36.161	076 29.565	✓	112					MICROBEST SUZUKI + UV	
7	B102	ROS	2339	BO	146	76 36.142	076 29.594	✓	112	110	9435 → 9458	24			
7	B102	ROS	2355	EN	146	76 36.151	076 29.659	✓	112						
8	B102	ROS	0104	BE	147	76 36.099	076 29.993	✓	109		9459 → 9476	18		METAZOON + UV + BASIC + SLICK	
8	B102	ROS	0111	BO	147	76 36.071	076 30.102	✓	109	100					
8	B102	ROS	0126	EN	147	76 36.049	076 30.170	✓	109						
8	B102	ROS	0312	BE	148	76 35.782	076 30.866	✓	107					PRIMARY PRODUCTION	
8	B102	ROS	0319	BO	148	76 35.748	076 30.793	✓	107		9477 → 9500	24		Could not Rtg last 2 bottles because of ice.	
8	B102	ROS	0335	EN	148	76 35.643	076 30.648		107						

CAST TYPE - BOT - bottle cast
CTD - ctd
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ROS - rosette
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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

100% 0

45% 10

30% 16

20% 21

10% 30

1% 60

0.1% 89

7- MAY- 1998

CAST	143	DOWNCAST	1123- 2036	BTI ✓
		UPCAST	2037- 5710	

CAST	144	DOWNCAST	985- 1874	BTI ✓
		UPCAST	1875- 5888	

CAST	145	DOWNCAST	902- 1368	BTI ✓
		UPCAST	1369- 4312	

CAST	146	DOWNCAST	1058- 1487	BTI ✓
		UPCAST	1488- 4832	

CAST	147	DOWNCAST	1237- 1700	BTI ✓
		UPCAST	1701- 4607	

CAST	148	DOWNCAST	1097- 1565	BTI ✓
		UPCAST	1566- 4804	

CAST	149	DOWNCAST	1291- 2195	
		UPCAST	2196- 3047	

CAST	150	DOWNCAST	975- 2181	
		UPCAST	2182- 3273	

CAST	151	DOWNCAST	1082- 2650	
		UPCAST	2651- 4135	

CAST 157 DOWNCAST 3426- 3821
UPCAST 3822- 6662

MONDAY 11 MAY:
~ 12h30 local
Secchi reading:

100%	0m
45%	12m
30%	18m
20%	25m
10%	35m
1%	70m
0.1%	106m

The SCM was set
at 40 m.

CAST 158 DOWNCAST 949- 1942
UPCAST 1943 6564

CAST 159 DOWNCAST 2468- 3538
UPCAST 3539- 7457

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP				CRUISE					PAGE	
1998			MAY			RADISSON				9812					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		
9	B2	ROS	2151	BE	155	78° 15' 512	074° 53.943	✓	566					CHEMISTRY		
9	B2	ROS	2207	BO	155	78° 14' 906	074° 53.558	✓	604?	485	9573 → 9596	24				
9	B2	ROS	2236	EN	155	78° 13' 987	074° 53.496	✓								
10	B2	ROS	0217	BE	156	78° 16' 595	074° 50.244	✓	550				/	BASIC + SILICA + UV		
10	B2	ROS	0235	BO	156	78° 15' 947	074° 50.061	✓	600	540	9597 → 9613	17				
10	B2	ROS	0311	EN	156	78° 14' 459	074° 50.954	✓								
10	B2	ROS	0514	BE	157	78° 15' 939	074° 49.392	✓	315?				/			
10	B2	ROS	0517	BO	157	78° 15' 845	074° 49.467	✓		58	9621 → 9643	23		PRIMARY PRODUCTION		
10	B2	ROS	0531	EN	157	78° 15' 260	074° 49.788	✓								
10	B2	ROS	1108	BE	158	78° 16' 535	074° 50.763									
10	B2	ROS		BO	158						9644 - 9655			Scrubbed		
10	B2	ROS		EN	158									CANCELLED		
11	B9	ROS	1638	BE	158	78° 59' 589	072° 19.352	✓	246				/	BASIC BIOLOGY		
11	B9	ROS	1647	BO	158	78° 59' 568	072° 19.640	✓		247	9656 - 9678					
11	B9	ROS	1708	EN	158	78° 59' 444	072° 20.320	✓								
11	B9	ROS	1940	BE	159	78° 58' 066	072° 24.661	✓	246				/	BASIC CHEMISTRY		
11	B9	ROS	1956	BO	159	78° 57' 959	072° 25.576	✓	259	259	9679 - 9696	18		HAD TO WAIT A LONG TIME AT THE SURFACE		
11	B9	ROS	2014	EN	159	78° 57' 773	072° 26.452	✓								

CAST TYPE -	BOT -	bottle cast	ROS -	rosette	USW -	sea water loop	TIME CODE -	BE -	beginning time of cast	DE -	depth of event
	CTD	at	NET								

CAST TYPE -

BOT - bottle cast
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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

BASIC

PATTY:

1 8L @ 45'.

1 8L @ SCM

8L @ 100m or lower if SCM low.

+4 bottles @ 200m.

SUZUKI

1 SCM 3L
1 45' 3L) BASIC

DEAN

1 45' (3L, Dean + Helge)

1 20'.

1 10'.

1 1'.

1 0.1'.

(100m)

200m

1 + SCM 100

BASIC CAST @ FULL STN:

Zhr-Ping:

2 btles @ 45'.

" @ SCM or 1'.

1 btl @ deep.

.106
 100
 45 8 m
 30 11 m
 20 15 m
 10 22 m
 1 43 m
 .1 65 m

8 MAY, 2145D local

9 MAY, 14425 local PROFIL UV
~~5.6~~

Ko. 1172
 100% 0 m
 45% 7
 30% 10
 20% 14
 10% 20
 1% 39
 0.1% 59

CAST 152 DOWNCAST 1172- 2785
 UPLAST 2786- 7960

BT1 ✓

CAST 153 DOWNCAST 2400- 3546
 UPLAST 3547- 7213

BT1 ✓

CAST 154 DOWNCAST 1909 - 6776
 UPLAST 6777 - 14043

BT1 ✓

CAST 155 DOWNCAST 629- 3200
 UPLAST 3201- 9483

CAST 156 DOWNCAST 1074- 4059
 UPLAST 4060 (1124) (1188)

✓

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH MAY		SHIP RADISSON			CRUISE 9812			PAGE 2		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
8	B104	CTD	0812	BE	149	76 23.077	076 42.721	✓	200					
8	B104	CTD	0823	BO	149	76 23.107	076 42.582	✓	200	195		Ø		
8	B104	CTD	0827	EN	149	76 23.108	076 42.527	✓	200					
8	B103	CTD	1014	BE	150	76 27.651	075 35.892	✓	313					
8	B103	CTD	1024	BO	150	76 27.597	075 36.029	✓	313	308		Ø		
8	B103	CTD	1029	EN	150	76 27.602	075 36.084	✓	313					
8	B101	CTD	1321	BE	151	76 45.102	075 49.316	✓	361					
8	B101	CTD	1334	BO	151	76 45.067	075 49.181	✓	361	357		Ø		
8	B101	CTD		EN	151	76 45.059	075 49.160	✓	361					
9	B2	ROS	0204	BE	152	78 23.716	074 42.391	✓	408?					UV + SEDIMENT TRAPS
9	B2	ROS	0217	BO	152	78 23.696	074 42.379	✓	410	400	9501 → 9524	24		
9	B2	ROS	0241	EN	152	78 23.640	074 42.341	✓	408					
9	B2	ROS	0914	BE	153	78 20.167	074 50.542	✓	273					
9	B2	ROS	0931	BO	153	78 20.098	074 50.976	✓	269	265	9525 - 9548			METAZONIN
9	B2	ROS	0948	EN	153	78 20.072	074 51.201	✓	272					
9	B2	ROS	1835	BE	154	78 17.592	074 51.840	✓	?					MIXED
9	B2	ROS	1911	BO	154	78 16.313	074 51.909	✓	630'	596	9549 - 9572			SUZUKI, ZHI-PING, DEAN, PATTY, HELGE, ADRIENNE
9	B2	ROS	1944	EN	154	78 14.953	074 51.771	✓						

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

CAST 160 DOWN 1111 - 2188
UP 2189 - 3824

CAST 161 DOWN 1022 - 1950
UP 1951 - 6736

CAST 162 DOWN 3793 - 4781
UP 4782 - 8824

CAST 163 DOWNCAST 320 - 1941
UPCAST 1942 - 6037

CAST 164 DOWNCAST 1593 - 2631
UPCAST 2632 - 6469

CAST 165 DOWNCAST 1004 - 3906
UPCAST 3907 - 9617

12 MAY BACKUP LEG 1 ON ZIP
DELETE FROM 43

519 874 214
13 893 632

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			INSTITUTE OF OCEAN SCIENCES					
1998			MAY			PIERRE RADISSON			CRUISE 9812					
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	B8	CTD	2103	BE	160	78°59.727	072°44.106	/	284					
11	B8	CTD	2113	BO	160	78°59.586	072°44.619	✓	292	270		0		
11	B8	CTD	2123	EN	160	78°59.480	072°44.851	✓						
11	B7	ROS	2215	BE	161	78°59.711	073°17.168	✓	247				✓	CHEMISTRY
11	B7	ROS	2224	BO	161	78°59.602	073°17.436	✓		225	9801 → 9822	22		FULL STATION
11	B7	ROS	2246	EN	161	78°59.405	073°18.206	✓						
12	B7	ROS	0205	BE	162	79°00.096	073°16.885	✓	245				✓	FULL STATION
12	B7	ROS	0227	BO	162	78°59.938	073°17.511	✓	252	230	9823 → 9845	23		MICROBEST - SUZUKI + PHYTO FUEL ON DECK
12	B7	ROS	0248	EN	162	78°59.767	073°18.094	✓						
12	B7	ROS	0341	BE	163	78°59.440	073°19.964	✓	251					PRIMARY PRODUCTION
12	B7	ROS	0350	BO	163	78°59.366	073°20.326	✓		230	NOT USED	21		
12	B7	ROS	0409	EN	163	78°59.187	073°20.791	✓	249					
12	B7	ROS	1121	BE	164	78°59.652	073°17.060	✓	250		9846 - 9868			metazoan + UV
12	B7	ROS	1129	BO	164	78°59.492	073°17.668	✓	250	230				
12	B7	ROS	1151	EN	164	78°59.390	073°17.973	✓	250					
12	B2	ROS	2351	BE	165	78°18.643	074°44.087	✓	480?				✓	BASIC BIOLOGY
13	B2	ROS	0010	BO	165	78°18.352	074°44.091	✓		594	9869 - 9892	24		
13	B2	ROS	0036	EN	165	78°17.952	074°44.249	✓						

CAST TYPE - BOT - bottle cast
CTD - ctd
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TIME CODE - BE - beginning time of cast
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MR - messenger release
RE - recover mooring

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

CAST TYPE -

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

SECCHI , MARDI 12 MAI ,

100 %

$K_d \approx 0.071$

45

11 m

30

17 m

20

23 m

10

33 m

1

65 m

0.1

96 m

CAST	166	DOWNCAST	1891 - 4247
		UPCAST	4248 - 9754

CAST	167	DOWNCAST	1792 - 3729
		UPCAST	3730 - 5693

CAST	168	DOWNCAST	995 - 3386
		UPCAST	3387 - 8156

CAST	169	DOWNCAST	1380 - 3829
		UPCAST	3830 - 10036

CAST	170	DOWNCAST	1193 - 3420
		UPCAST	3421 - 9247

CAST	171	DOWNCAST	1205 - 3436
		UPCAST	3437 - 5630

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			PIERRE RADISSON			9812			5			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
13	B2	ROS	0412	BE	166	7820.609	07442.029	✓	596				✓	BASIC CHEMISTRY	
13	B2	ROS	0428	BO	166	7820.400	07442.413	✓	586	586	9893 → 9910	18			
13	B2	ROS	0455	EN	166	7819.935	07443.363	✓	600						
13	B3	CTD	0552	BE	167	7820.322	07417.351	✓	485						
13	B3	CTD	0610	BO	167	7819.911	07417.765	✓	476	453		∅			
13	B3	CTD	0623	EN	167	7819.624	07417.779	✓	516						
13	B4	ROS	0725	BE	168	7820.554	07356.578	✓	610				✓	microbes -	
13	B4	ROS	0741	BO	168	7820.378	07357.373	✓	610	600	9911 → 9927	17		9919 - 9927	
13	B4	ROS	0803	EN	168	7820.196	07358.447	✓	575						
13	B4	ROS	0909	BE	169	7819.562	07400.515	✓	603				✓	BASIC CHEMISTRY	
13	B4	ROS	0927	BO	169	7819.350	07400.991	✓	613	595		23		9928 - 9950	
13	B4	ROS	0956	EN	169	7819.010	07401.271	✓	629						
13	B4	ROS	1522	BE	170	7820.114	07359.589	✓	587				✓	Metazoan	
13	B4	ROS	1538	BO	170	7820.048	07400.000	✓	569	569		21		9951 - 9971	
13	B4	ROS	1605	EN	170	78 20.001	074 00.841	✓						Note - 9958 used for broken bottle	
13	B13	CTD	2250	BE	171	77° 49.761	076° 01.145	✓	600?						
13	B13	CTD	2306	BO	171	77° 49.640	076° 01.117	✓		565		∅			
13	B13	CTD	2317	EN	171	77° 49.572	076° 01.321								

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 - GPS
LOR - RADAR
GLOBAL LORAN

Secchi 20m15 local, 13 MAY 21.5

100	
45	10 m
30	15 m
20	20
10	28
1	547
01	85

CAST	172	DOWNCAST	1561- 3964
		UPCAST	3965- 9096

CAST	173	DOWNCAST	957- 3342
		UPCAST	3343- 8745

CAST	174	DOWNCAST	1608- 3937
		UPCAST	3938- 9290

CAST	175	DOWNCAST	1230- 3355
		UPCAST	3356- 9868

CAST	176	DOWNCAST	1777- 4448
		UPCAST	4449- 9165

CAST	177	DOWNCAST	904- 4287
		UPCAST	4288- 9591

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE			OF		
1998			MAY			PIERRE RADISSON			9812			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			
14	B14	ROS	0033	BE	172	77°49.490	075°26.924	✓	614				✓	FULL STATION MICROBES + SUZUKI			
14	B14	ROS	0052	BO	172	77°49.441	075°27.468	✓	607	595	9972→9994	23					
14	B14	ROS	0116	EN	172	77°49.400	075°28.272	✓									
14	B14	ROS	0241	BE	173	77°49.377	075°28.096	✓	604				✓	FULL STATION BASIC CAST			
14	B14	ROS	0257	BO	173	77°49.335	075°28.618	✓	603	590	9995→10016	22					
14	B14	ROS	0322	EN	173	77°49.247	075°29.287	✓	598								
14	B14	ROS	0409	BE	174	77°49.361	075°29.946	✓	593				✓	FULL STATION PRIMARY PRODUCTION			
14	B14	ROS	0428	BO	174	77°49.248	075°30.692	✓	588	575	NOT USED	24					
14	B14	ROS	0453	EN	174	77°49.097	075°31.665	✓	581								
14	B14	ROS	0639	BE	175	77°48.172	075°38.028	✓	517		11201-11223		✓	Chemistry			
14	B14	ROS	0655	BO	175	77°48.100	075°38.700	✓	519	504		23					
14	B14	ROS	0726	EN	175	77°47.688	075°41.494	✓	526								
14	B14	ROS	1023	BE	176	77°49.458	075°33.388	✓	536		11224-11242		✓	Metazoan			
14	B14	ROS	1043	BO	176	77°48.952	075°35.366	✓	517	508		19					
14	B14	ROS	1107	EN	176	77°48.449	075°37.715	✓	515								
14	B15	CTD	2358	BE	177	77°49.374	074°48.278	✓	697					Going up @ 0.5 m/s b.o.			
15	B15	CTD	0018	BO	177	77°48.859	074°46.901	✓	699?	674		0		Stop @ 15m to let ice go.			
15	B15	CTD	0042	EN	177	77°48.147	074°46.175										

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, 23h30, local, 14 MAY:

K _d	
45'	4
30'	6
20'	8
10'	11
1'	22
0.1'.	33

CAST	178	DOWNCAST	910	1843
		UPCAST	1844-	4228

CAST	179	DOWNCAST	1424-	2191
		UPCAST	2192-	5200

CAST	180	DOWNCAST	1851-	2728
		UPCAST	2729-	6617

CAST	181	DOWNCAST	1597	2604
		UPCAST	2605	7220

CAST	182	DOWNCAST	1511	2355
		UPCAST	2356	5834

CAST	183	DOWNCAST	1143-	2525
		UPCAST	2526-	3739

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			PIERRE RADISSON			9812			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	
15	B18	ROS	0344	BE	178	77 49.914	073 09.014	✓	172				✓	FULL STATION BASIC CAST	
15	B18	ROS	0352	BO	178	77 49.866	073 08.252	✓	177	172	11243 - 11254	9			
15	B18	ROS	0404	EN	178	77 49.777	073 07.484	✓							
15	B18	ROS	0456	BE	179	77 49.998	073 07.791	✓	166		None used	23	✓	Primary production and silica	
15	B18	ROS	0506	BO	179	77 49.947	073 06.817	✓	166	166					
15	B18	ROS	0521	EN	179	77 49.931	073 05.652	✓	166						
15	B18	ROS	0632	BE	180	77 49.984	073 09.502	✓	166				✓		
15	B18	ROS	0644	BO	180	77 49.722	073 08.794	✓	167		11252 - 11274	23		microbes	
15	B18	ROS	0703	EN	180	77 49.478	073 06.400	✓	165						
15	B18	ROS	0815	BO	181	77 50.009	073 09.239	✓	173		11275 - 11291		✓		
15	B18	ROS	0827	BO	181	77 49.0756	073 07.620	✓	166	174		21		Chemistry	
15	B18	ROS	0848	EN	181	77 49.288	073 04.975	✓	165						
15	B18	ROS	1355	BE	182	77 49.982	073 09.568	✓	164		11296 -		✓	metazoan	
15	B18	ROS	1409	BO	182	77 49.861	073 08.891	✓	167		11316	21			
15	B18	ROS	1423	EN	182	77 49.721	073 07.819	✓	165						
15	B17	CTD	1807	BE	183	77 49.658	073 36.713	✓	273						
15	B17	CTD	1819	BO	183	77 49.297	073 36.689	✓		267		Ø			
15	B17	CTD	1825	EN	183	77 49.133	073 36.491	✓							

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

15 MAY, 16h20 local, Secchi reading:

45 %	6
30 %	9
20 %	11
10 %	16
1 %	33
0.1 %	49

CAST	184	DOWNCAST	854-	4470
		UPCAST	4471-	11540

CAST	185	DOWNCAST	1142-	4666
		UPCAST	4667-	12485

~~MAY 16, Secchi 1909~~

CAST	186	DOWNCAST	829-	3592
		UPCAST	3593-	6560

CAST	187	DOWNCAST	1643-	6130
		UPCAST	6131-	14085

CAST	188	DOWNCAST	765-	3500
		UPCAST	3501-	9006

CAST	189	DOWNCAST	755	2669
		UPCAST	2670	7612

YEAR		MONTH				SHIP		CRUISE				PAGE		OF	
1998		MAY				PIERRE RADISSON		9812				8			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
15	B16	ROS	2029	BE	184	77°49.357	074°24.394	✓	667				✓	BASIC STATION BIOLOGY CAST	
15	B16	ROS	2049	BO	184	77°48.822	074°23.612	✓		655	11317-11336	21		+SAL	
15	B16	ROS	2122	EN	184	77°47.915	074°22.094	✓	604						
15	B16	ROS	2345	BE	185	77°49.653	074°25.520	✓	703				✓	BASIC STATION CHEMISTRY CAST	
16	B16	ROS	0008	BO	185	77°49.108	074°24.781	✓		666	11337-11349	13			
16	B16	ROS	0043	FN	185	77°48.321	074°23.373	✓							
16	B24	CTD	0309	BE	186	77°21.462	075°23.999	✓	590						
16	B24	CTD	0327	BO	186	77°21.084	075°23.114	✓		577		0			
16	B24	CTD	0340	EN	186	77°20.849	075°22.289	✓	586						
16	B25	ROS	0640	BE	187	77°20.592	074°50.309	✓	678		11350-		✓		
16	B25	ROS	0710	BO	187	77°19.549	074°47.966	✓	673	659	11363	14		Basic Station	
16	B25	ROS	0746	EN	187	77°18.236	074°44.694	✓	672						
16	B27	ROS	2313	BE	188	77°20.937	073°46.535	✓	334				✓	FULL STATION MICROBEST SUZUKI	
16	B27	ROS	2329	BO	188	77°20.379	073°46.040	✓	410	380	11364-11387	24			
16	B27	ROS	2354	EN	188	77°19.509	073°45.372	✓	403						
17	B27	ROS	0038	BE	189	77°20.601	073°47.046	✓	376				✓	FULL STATION BASIC + UV	
17	B27	ROS	0051	BO	189	77°20.245	073°46.516	✓	413	399	11388-11407	20			
17	B27	ROS	0114	EN	189	77°19.676	073°46.000	✓							

CAST	190	DOWNCAST	781-	2843
		UPCAST	2844-	7352

CAST	191	DOWNCAST	1545-	2912
		UPCAST	2913-	8011

CAST	192	DOWNCAST	1842 -	3829
		UPCAST	3830 -	7680

CAST	193	DOWNCAST	1799-	5125
		UPCAST	5126-	8052

CAST	194	DOWNCAST	942	4085
		UPCAST	4086 -	10254

CAST	195	DOWNCAST	774-	3447
		UPCAST	3448-	6597

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH				SHIP				CRUISE				PAGE		OF	
1998		MAY				PIERRE RADISSON				9812				9			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
17	B27	ROS	0214	BE	190	77 20.472	073 47.520	✓	384				✓	FULL STATION PRIMARY PRODUCTION			
17	B27	ROS	0227	BO	190	77 20.212	073 47.210	✓	412	403	NON USED	24					
17	B27	ROS	0248	EN	190	77 19.813	073 47.048	✓	417								
17	B27	ROS	0359	BE	191	77 21.123	073 48.429	✓	346				✓	FULL STATION CHEMISTRY CAST			
17	B27	ROS	0415	BO	191	77 21.067	073 48.206	✓	347	339		24					
17	B27	ROS	0439	EN	191	77 20.948	073 48.759	✓	368								
17	B27	ROS	0818	BO	192	77 20.984	073 49.286	✓	368		11432-11455		✓	Metazoa			
17	B27	ROS	0836	BO	192	77 20.658	073 51.054	✓	414	393		24					
17	B27	ROS	0855	EN	192	77 20.405	073 52.978	✓	447								
17	B26	CTD	1245	BE	193	77 20.962	074 16.793	✓	860			0		no depth sounding			
17	B26	CTD	1305	BO	193	77 20.909	074 18.430	✓	714	707				estimated depths			
17	B26	CTD	1319	EN	193	77 20.958	074 19.313	✓	?					from the bridge			
17	B25	ROS	1649	BE	194	77 21.198	074 51.406	✓	676				✓	BASIC CHEMISTRY			
17	B25	ROS	1709	BO	194	77 21.435	074 53.335	✓	663	655	11456 → 11472	17					
17	B25	ROS	1737	EN	194	77 21.701	074 56.302	✓	658								
17	B24	CTD	1840	BE	195	77 21.036	075 27.393	✓	591								
17	B24	CTD	1856	BO	195	77 21.109	075 28.981	✓		578		0					
17	B24	CTD	1911	EN	195	77 21.255	075 30.167	✓									
CAST TYPE -		BOT -	bottle cast	ROS -	rosette	USW -	sea water loop	TIME CODE -	BE	beginning time	BE	ending time	BE	beginning time	BE	ending time	

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

Secchi, 1800 local 17 May Sunday

45%	8 m
30%	11
20%	15
10%	22
1%	43
0.1%	65

CAST	196	DOWNCAST	824	2947
		UPCAST	2948	8563

CAST	197	DOWNCAST	875-	3103
		UPCAST	3104-	7908

SECCHI @ B22, FULL STN, 23h30 local, 17 May

45%	8
30%	11
20%	15
10%	22
1%	43
0.1%	65

CAST	198	DOWNCAST	927-	2588
		UPCAST	2589-	7176

CAST	199	DOWNCAST	3742-	5488
		UPCAST	5489-	10717

CAST	200	DOWNCAST	1699	- 3650
		UPCAST	3651	- 7872

CAST	201	DOWNCAST	1225-	3019
		UPCAST	3020-	7485

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			PIERRE RADISSON			9812			10			
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	B23	ROS	2213	BE	196	77° 20.366	076° 01.022	✓	543				/	BASIC BIOLOGY	
17	B23	ROS	2228	BO	196	77° 20.410	076° 00.654	✓		535	11473-11495	23		+ Seach.	
17	B23	ROS	2253	EN	196	77° 20.458	076° 00.085	✓						Touched bottom. Weight did not work.	
18	B23	ROS	0025	BE	197	77° 20.795	075° 57.709	✓	538				✓	BASIC CHEMISTRY	
18	B23	ROS	0039	BO	197	77° 20.854	075° 57.315	✓		529	11496 → 11507	12			
18	B23	ROS	0101	EN	197	77° 20.937	075° 56.734	✓							
18	B22	ROS	0342	BE	198	77° 23.317	076° 15.694	✓	419				✓	FULL STATION	
18	B22	ROS	0354	BO	198	77° 23.390	076° 15.536	✓		410	11508 → 11530	23		BASIC + PRIMARY PROD.	
18	B22	ROS	0415	EN	198	77° 23.546	076° 15.314	✓							
18	B22	ROS	0603	BE	199	77° 24.290	076° 13.732	✓	438		11531-11553	23	✓	CHEM.	
18	B22	ROS	0628	BO	199	77° 24.646	076° 13.410	✓	445	434				note staricases.	
18	B22	ROS	0654	EN	199	77° 24.922	076° 13.274	✓	445					important CTD cast	
18	B22	ROS	1024	BE	200	77° 25.806	076° 10.992	✓	461		11554-		✓	Metazoan + UV	
18	B22	ROS	1041	BO	200	77° 25.842	076° 10.783	✓	462	458	11576	23			
18	B22	ROS	1100	EN	200	77° 25.922	076° 10.600	✓	462						
18	B22	ROS	1401	BE	201	77° 26.182	076° 07.980	✓	479				✓	MICRO BES	
18	B22	ROS	1415	BO	201	77° 26.217	076° 07.847	✓	481	473	11577-11599				
18	B22	ROS	1436	EN	201	77° 26.257	076° 07.633	✓	481						

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

18h00 local, Tuesday 19 MAY

45%	5
30%	7
20%	9
10%	14
1%	27
0.1%	41

@ 20h20 local:

45%	8 m
30%	12 m
20%	16 m
10%	23 m
1%	46 m
0.1%	69 m

CAST	202	DOWNCAST	944-	3087
		UPCAST	3088-	8768

CAST	203	DOWNCAST	775-	3087
		UPCAST	3088-	8380

CAST	204	DOWNCAST	1523-	3668
		UPCAST	3669-	9364

CAST	205	DOWNCAST	1876	4587
		UPCAST	4588	9247

CAST	206	DOWNCAST	1089-	3672
		UPCAST	3673-	9569

CAST	207	DOWNCAST	883-	2686
		UPCAST	2687-	7047

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			PIERRE RADISSON			9812			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	
19	B34	ROS	2217	BE	202	76°59.938	075°33.228	/	517				✓	LONG STATION CHEMISTRY CAST	
19	B34	ROS	2232	BO	202	76°59.716	075°32.460	✓		505	12637 → 12659	23			
19	B34	ROS	2258	EN	202	76°59.206	075°31.753	✓							
20	B34	ROS	0218	BE	203	76°56.716	075°28.005	✓	508				✓	LONG STATION MICROBES + SUZUKI	
20	B34	ROS	0232	BO	203	76°56.346	075°28.151	/		490	12685 → 12707	23			
20	B34	ROS	0256	EN	203	76°55.868	075°28.635	✓							
20	B34	ROS	0355	BE	204	76°55.516	075°28.910	✓	500				✓	LONG STATION UV + BASIC	
20	B34	ROS	0420	BO	204	76°55.119	075°29.149	✓	494	480	12708 → 12729	22			
20	B34	ROS	0446	EN	204	76°54.429	075°29.902	✓	488						
20	B34	ROS	0558	BE	205	76°55.384	075°28.884	✓	494				✓	Primary production + Silica	
20	B34	ROS	0620	BO	205	76°54.755	075°28.444	✓	491	480	NO NUMBERS	22			
20	B34	ROS	0642	EN	205	76°54.103	075°28.416	✓	487						
20	B34	ROS	0956	BE	206	76°54.505	075°30.974	✓	494	469			✓	METAZOAN + DMS	
20	B34	ROS	1013	BO	206	76°53.955	075°30.702	✓	485		12730 → 12746	17			
20	B34	ROS	1041	EN	206	76°52.980	075°30.540	✓	483						
23	B31	ROS	0022	BE	207	77°02.024	077°02.905	✓	288				✓	FULL STATION MICROBES + SUZUKI	
23	B31	ROS	0035	BO	207	77°01.818	077°02.525	✓	298	303	12747 → 12769	23		+ Sal.	
23	B31	ROS	0055	EN	207	77°01.511	077°01.688	✓							

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

Secchi, 20 to 10 local, 22 May

45	6
30	9
20	11
10	16
1	33
0.1	49

CAST	208	DOWNCAST	787-	1607
		UPCAST	1608-	4479

CAST	209	DOWNCAST	798-	2214
		UPCAST	2215-	6090

CAST	210	DOWNCAST	1612	2706
		UPCAST	2707	7544

CAST	211	DOWNCAST	1627	2568
		UPCAST	2569	5866

CAST	212	DOWNCAST	1801	3201
		UPCAST	3202	6391

CAST	213	DOWNCAST	961	3675
		UPCAST	3676	10078

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	B31	ROS	0209	BE	208	77° 00.996	076° 59.068	✓	175					✓	FULL STATION BASIC + UV
23	B31	ROS	0216	BO	208	77° 00.833	076° 59.030	✓		169	12770 → 12791	22			Out of water, then back @ surface for last 2 samples
23	B31	ROS	0232	EN	208	77° 00.523	076° 58.544	✓	162						
23	B31	ROS	0334	BE	209	77° 02.042	077° 02.634	✓	295					✓	FULL STATION PRIMARY PRODUCTION
23	B31	ROS	0345	BO	209	77° 01.845	077° 02.441	✓		296	Not used	24			
23	B31	ROS	0403	EN	209	77° 01.512	077° 01.817	✓	246						
23	B31	ROS	0552	BE	210	77° 01.588	077° 01.346	✓	236		12792 -			✓	CHEMISTRY
23	B31	ROS	0604	BO	210	77° 01.344	077° 01.439	✓	214	217	12815	24			
23	B31	ROS	0627	EN	210	77° 00.824	077° 01.368	✓	203						
23	B31	ROS	0918	BE	211	77° 01.951	076° 57.135	✓	177		12816 -			✓	CHEMISTRY II
23	B31	ROS	0928	BO	211	77° 01.796	076° 57.396	✓	176	150	12839	24			
23	B31	ROS	0947	EN	211	77° 01.527	076° 57.429	✓	172						
23	B31	ROS	1112	BE	212	77° 03.385	076° 55.993	✓	195		12840 -			✓	Metazoan
23	B31	ROS	1124	BO	212	77° 03.166	076° 55.978	✓	190	no	12862				
23	B31	ROS	1141	EN	212	77° 02.863	076° 56.029	✓	184						
24	B40	ROS	1652	BE	213	76° 59.914	072° 24.490	✓	591					✓	Full station Chemistry
24	B40	ROS	1707	BO	213	76° 59.912	072° 23.879	✓		580	12863 - 12886	24			
24	B40	ROS	1739	EN	213	76° 59.773	072° 22.709	✓	613						

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 - GPS - LOR - RADAR GLOBAL LORAN

24 MAY

Secchi	45%	4
(~12h30)	30%	7
	20%	9
	10%	13
	1%	26
	0.1%	39

Secchi	(16h10)	45%	4
		30%	6
		20%	8
		10%	12
		1%	23
		0.1%	35

CAST	214	DOWNCAST	1061	3532
		UPCAST	3533	8732

CAST	215	DOWNCAST	1018	3302
		UPCAST	3303	7116

CAST	216	DOWNCAST	975	3292
		UPCAST	3293	7543

CAST	217	DOWNCAST	811-	3034
		UPCAST	3035	8010

CAST	218	DOWNCAST	1589-	3650
		UPCAST	3651-	8541

CAST	219	DOWNCAST	1336	2890
		UPCAST	2891	4461

1998			MONTH		MAY		SHIP		PIERRE RADISSON		CRUISE		9812		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		
24	B40	ROS	2048	BE	214	76° 59.669	072° 25.873	✓	561				✓	FULL STATION MICROBES + SUZUKI		
24	B40	ROS	2104	BO	214	76° 59.731	072° 25.505	✓		557	12887 → 12910	24				
24	B40	ROS	2129	EN	214	76° 59.770	072° 25.376	✓	575							
24	B40	ROS	2217	BE	215	76° 59.958	072° 25.303	✓	575				✓	FULL STATION CONTAMINANTS		
24	B40	ROS	2232	BO	215	77° 00.065	072° 25.418	✓		559	NOT USED	24		NO #13		
24	B40	ROS	2250	EN	215	77° 00.130	072° 25.516	✓								
25	B40	ROS	0054	BE	216	77° 00.377	072° 26.559	✓	540				✓	FULL STATION BASIC		
25	B40	ROS	0108	BO	216	77° 00.617	072° 27.169	✓	533	519	12911 → 12928	18				
25	B40	ROS	0129	EN	216	77° 00.930	072° 27.714	✓	520							
25	B40	ROS	0218	BE	217	77° 00.279	072° 26.079	/	548				✓	FULL STATION PRIMARY PRODUCTION		
25	B40	ROS	0235	BO	217	77° 00.404	072° 26.505	✓	539	530	NOT USED	24		sbp @ 14m b.o. grey water		
25	B40	ROS	0255	EN	217	77° 00.590	072° 27.001	✓	537							
25	B40	ROS	0537	BE	218	77° 00.526	072° 26.676	✓	535		12929 - 12952	24	✓	FULL STATION METAZOAN + UV		
25	B40	ROS	0554	BO	218	77° 00.533	072° 26.792	✓	534	522						
25	B40	ROS	0617	EN	218	77° 00.612	072° 26.913	✓	536							
25	B39	CTD	0936	BE	219	77° 00.249	072° 48.041	✓	412		NOT USED		✓	CTD		
25	B39	CTD	0949	BO	219	77° 00.290	072° 47.648	✓	415	405						
25	B39	CTD	0958	EN	219	77° 00.312	072° 47.928	✓	417							

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 25 May, 13 local

45%
30%
20%
10%
1%
0.1%

Same as yesterday ship moves too
much to do a new reading

CAST 220 DOWNCAST
UPCAST 1190- 2646
2647- 6779

21h20 local, 25/5/98

CAST 221 DOWNCAST
UPCAST 4236- 5768
5769- 11080

45 4

30 6

20 8

10 11

1 22

0.1 33

CAST 222 DOWNCAST
UPCAST 1463 2919
2920 4346

CAST 223 DOWNCAST
UPCAST 937- 4545
4546- 12364

CAST 224 DOWNCAST
UPCAST 931- 3363
3364- 7645

CAST 225 DOWNCAST
UPCAST 739- 3264
3265- 8820

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		1998		MONTH		MAY		SHIP		PIERRE RADISSON		CRUISE		9812		PAGE		14 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					
25	B38	ROS	1102	BE	220	7700.120	07312.260	✓	336				✓	BIO (BASIC)					
25	B38	ROS	1113	BO	220	7700.090	07311.813	✓	336	335	no - numbers	19							
25	B38	ROS	1138	EN	220	7700.062	07311.197	✓	335										
25	B38	ROS	1251	BE	221	7659.996	07310.170	✓	336		10953 -		✓	BASIC					
25	B38	ROS	1321	BO	221	7700.143	07308.189	✓	339	334	10976	24		CHEMISTRY					
25	B38	ROS	1347	EN	221	7700.140	07348.000?	✓	344					Storages 100-200m					
25	B37	CTD	1540	BE	222	7659.099	07343.033	✓	291				✓						
25	B37	CTD	1553	BO	222			✓	280	277	NOT USED	0		CTD					
25	B37	CTD	1600	EN	222	7658.724	07341.429	✓											
25	B36	ROS	1731	BE	223	7659.179	07424.978	✓	574				✓	BIOLOGY CAST					
25	B36	ROS	1753	BO	223	7658.554	07423.410	✓		557	12977 → 13000	24		BASIC STATION					
25	B36	ROS	1829	EN	223	7657.406	07420.457	✓											
26	B54	ROS	0125	BE	224	7618.562	07159.100	✓	582				✓	FULL STATION					
26	B54	ROS	0139	BO	224	7618.687	07159.008	✓		569	13001 → 13014	14		BASIC CAST					
26	B54	ROS	0200	EN	224	7618.901	07158.756	✓											
26	B54	ROS	0311	BE	225	7617.720	07154.711	✓	586				✓	FULL STATION					
26	B54	ROS	0326	BO	225	7617.771	07154.545	✓		572	NOT USED	24		PRIMARY PRODUCTION					
26	B54	ROS	0352	EN	225	7617.835	07154.378	✓						TAKE OFF BOTTLE #7 - #9 BOTTOM LID BROKEN					
CAST TYPE -		BOT -	bottle cast	ROS -	rosette	USW -		sea water loop	TIME CODE -		BE -	beginning time of cast	DE -	deployment time					

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

CAST	226	DOWNCAST	3041	5398
		UPCAST	5399	111719

CAST	227	DOWNCAST	3226	-	5592
		UPCAST	5593	-	11018

CAST	228	DOWNCAST	1542	3898
		UPCAST	3899	8455

CAST	229	DOWNCAST	1622-	4078
		UPCAST	4079-	8741

CAST	230	DOWNCAST	853-	3021
		UPCAST	3022 -	5069

Secchi, 26 May, 16h	local	45 %	4
		30 %	6
		20 %	8
		10 %	11
		1 %	28
		0.1 %	33

CAST	231	DOWNCAST	853	3392
		UPCAST	3393	8025

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH MAY			SHIP PIERRE RADISSON			CRUISE 9812				PAGE 15 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	B54	ROS	0538	BE	226	7617.449	07153.257	✓	586		13015-		✓	Chem (Full)
26	B54	ROS	0603	BO	226	7617.309	07152.961	✓	578	566	13036	22		
26	B54	ROS	0633	EN	226	7617.141	07152.603	✓	576					
26	B54	ROS	1006	BE	227	7616.049	07151.873	✓	565		13039-		✓	Biology -
26	B54	ROS	1027	BO	227	7616.058	07151.633	✓	565	551	13058	22		microbes
26	B54	ROS	1054	EN	227	7616.116	07151.198	✓	564					
26	B54	ROS	1346	BE	228	7616.831	07181.754	✓	576		13059-		✓	
26	B54	ROS	1404	BO	228	7616.904	07152.164	✓	575	561	13080	22		Biology -
26	B54	ROS	1425	EN	228	7616.909	07151.939	✓	575					metazoan
26	B54	ROS	1528	BE	229	7616.711	07150.619	✓	579		No-numbers		✓	contaminants
26	B54	ROS	1547	BO	229	7616.619	07150.157	✓	579	567		22		
26	B54	ROS	1610	EN	229	7616.463	07149.463	✓	577					
26	B53	CTD	1910	BE	230	7617.124	07227.714	✓	560				✓	
26	B53	CTD	1924	BO	230	7616.959	07226.720	✓		547		Ø		
26	B53	CTD	1934	EN	230	7616.857	07226.202	✓						
26	B52	ROS	2043	BE	231	7616.810	07301.562	✓	562				✓	BASIC STATION BIOLOGY
26	B52	ROS	2058	BO	231	7616.585	07300.407	✓		547	13081-13099	17		
26	B52	ROS	2121	EN	231	7616.277	07258.844	✓	549					

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

CAST	232	DOWNCAST	705	3118
		UPCAST	3119	- 8646

CAST	233	DOWNCAST	610 -	3103
		UPCAST	3104 -	5730

Secchi, 26 MAY, 22435 local :

45%
30%
20%
10%
1%
0.1%

} Same as yesterday.
Current too strong.

CAST	234	DOWNCAST	836	2890
		UPCAST	2891	7785

27 MAY ~1600 local

6m
45% 3
30% 4
20% 6
10% 8
1% 16
0.1% 24

CAST	235	DOWN	2429 -	5379
		UP	5380 -	12660

CAST	236	DOWN	881	3066
		UP	3067	7869

CAST	237	DOWN	652 -	2693
		UP	2694 -	7092

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		MAY		PIERRE RADISSON		9812		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
26	B52	ROS	2257	BE	232	76° 16. 898	073° 02. 800	✓	563				✓	BASIC STATION CHEMISTRY CAST
26	B52	ROS	2311	BO	232	76° 16. 716	073° 01. 925	✓		549	13100 → 13117	18		
26	B52	ROS	2337	EN	232	76° 16. 483	073° 00. 394	✓	550					
27	B51	CTD	0105	BE	233	76° 16. 116	073° 35. 695	✓	512				✓	
27	B51	CTD	0120	BO	233	76° 15. 998	073° 34. 958	✓	506	499		φ		
27	B51	CTD	0132	EN	233	76° 15. 866	073° 34. 240	✓						
27	B50	ROS	0300	BE	234	76° 15. 032	074° 10. 291	✓	457				✓	QUASI-FULL STATION CHEMISTRY CAST
27	B50	ROS	0313	BO	234	76° 14. 884	074° 09. 519	✓		447	13118 → 13136	19		
27	B50	ROS	0336	EN	234	76° 14. 689	074° 08. 240	✓						
27	B50	ROS	0729	BE	235	76° 15. 032	074° 10. 068	✓	459		13137 -		✓	BIOLOGY →
27	B50	ROS	0754	BO	235	76° 14. 519	074° 07. 681	✓		435	13159	23		BASIC+UV+ microbes.
27	B50	ROS	0830	EN	235	76° 13. 651	074° 04. 738	✓	449					
27	B49	ROS	2015	BE	236	76° 16. 719	074° 46. 977	✓	481				✓	BASIC STATION BIOLOGY CAST
27	B49	ROS	2030	BO	236	76° 16. 511	074° 48. 523	✓		460	13160 → 13180	21		
27	B49	ROS	2052	EN	236	76° 16. 194	074° 50. 800	✓						
27	B49	ROS	2158	BE	237	76° 16. 860	074° 45. 670	✓	472				✓	BASIC STATION CHEMISTRY CAST
27	B49	ROS	2211	BO	237	76° 16. 674	074° 46. 661	✓		464	13181 → 13193	13		
27	B49	ROS	2231	EN	237	76° 16. 351	074° 48. 778	✓						
CAST TYPE - BOT - bottle cast CTD - CTD - 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
dritterUSW -
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

CAST	238	DOWNCAST	512 - 2430
		UPCAST	2431 - 4430

SERCHI 20445 local, 27 MAY

CAST	239	DOWNCAST	921 - 2776
		UPCAST	2777 - 7610

45% 6

30% 9

20% 12

10% 18

1% 35

0.1% 53

CAST	240	DOWNCAST	881 - 3041
		UPCAST	3042 - 8095

CAST	241	DOWNCAST	844	1768
		UPCAST	1769	2994

CAST	242	DOWNCAST	821 - 2200
		UPCAST	2201 - 8070

CAST	243	DOWNCAST	711 - 4227
		UPCAST	4228 - 10468

YEAR			MONTH			SHIP			RADISSON			CRUISE			PAGE			OF		
1998			MAY			PIERRE			RADISSON			9812			17					
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	B48	CTD	2332	BE	238	76°17.675	075°20.079	✓	387				✓							
27	B48	CTD	2344	BO	238	76°17.500	075°21.293	✓		374		φ								
27	B48	CTD	2353	EN	238	76°17.315	075°22.361	✓												
28	B47	ROS	0114	BE	239	76°18.999	075°58.320	✓	331				✓	BASIC STATION BIOLOGY CAST						
28	B47	ROS	0127	BO	239	76°18.803	076°00.459	✓		319	13194 → 13211	18								
28	B47	ROS	0149	EN	239	76°18.342	076°03.998	✓												
28	B47	ROS	0450	BE	240	76°18.636	075°56.004	✓	351				✓	BASIC STATION CHEMISTRY CAST						
28	B47	ROS	0505	BO	240	76°18.143	075°58.273	✓	350	335	13212 → 13224	13								
28	B47	ROS	0558	EN	240	76°17.265	076°01.798	✓	351											
28	B46	CTD	0719	BE	241	76°19.279	076°33.421	✓	201				✓	CTD						
28	B46	CTD	0727	BO	241	76°19.277	076°33.437	✓	202	195										
28	B46	CTD	0733	EN	241	76°19.027	076°34.844	✓	195											
28	B44	ROS	0931	BE	242	76°22.467	077°20.729	✓	364	364			✓	DAVE/IAN FULL STN						
28	B44	ROS	0941	BO	242	76°22.466	077°20.741	✓	365	354	13225 - 13233	9		Note - held at 50m to clear ice						
28	B44	ROS	1009	EN	242	76°22.491	077°20.836	✓	365					GEOLOGY						
28	B44	ROS	1617	BE	243	76°22.745	077°15.711	✓	339		13234 -		✓	METAZOAN - FULL STN						
28	B44	ROS		BO	243			✓		270?	13254	21		Stop @ 260 b.o. ice						
28	B44	ROS	1705	EN	243	76°22.335	077°16.265	✓						Don't complete profile.						

CAST TYPE -

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

At Station B31

② 0520 local
29 May 98.

45% - 6 m

30% - 10 m

20% - 13 m

10% - 18 m

1% - 37 m

1% - 55

CAST 244 DOWNCAST 633 2159
UPCAST 2160 6429

SERCHI 14115 local 28 MAY

CAST 245 DOWNCAST 730- 2208
UPCAST 2209- 6250

45 %
30 %
20 %
10 %
1 %
0.1 %
Same as
yesterday
Current 100
Strong

CAST 246 DOWNCAST 602 1911
UPCAST 1912 4695

CAST 247 DOWNCAST 617 2508
UPCAST 2509 6654

CAST 248 DOWNCAST 564 2155
UPCAST 2156 6154

CAST 249 DOWNCAST 749- 1907
UPCAST 1908- 3135

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP					CRUISE					PAGE		OF	
1998		MAY			PIERRE RADISSON					9812					12			
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	B44	ROS	1841	BE	244	76°21.517	077°10.073	✓	316				✓	FULL STATION MICROBES + SUZUKI				
28	B44	ROS	1851	BO	244	76°21.381	077°10.787	✓	332	325	13256 → 13278	23						
28	B44	ROS	1911	EN	244	76°21.152	077°12.184	✓	360									
28	B44	ROS	2008	BE	245	76°20.947	077°06.627	✓	309				✓	FULL STATION CHEMISTRY CAST				
28	B44	ROS	2018	BO	245	76°20.869	077°07.088	✓	318	310	13279 → 13298	20						
28	B44	ROS	2038	EN	245	76°20.636	077°08.036	✓	335									
28	B44	ROS	2226	BE	246	76°20.321	077°07.608	✓	335				✓	FULL STATION CONTAMINANTS CAST				
28	B44	ROS	2235	BO	246	76°20.275	077°07.766	✓		331	NOT USED	18						
28	B44	ROS	2248	EN	246	76°20.168	077°07.825	✓										
29	B44	ROS	0027	BE	247	76°19.200	077°08.940	✓	387				✓	FULL STATION BASIC CAST				
29	B44	ROS	0038	BO	247	76°19.118	077°09.158	✓		379	13299 → 13320	22						
29	B44	ROS	0058	EN	247	76°18.923	077°09.437	✓										
29	B44	ROS	0207	BE	248	76°20.233	077°10.878	✓	378				✓	FULL STATION PRIMARY PRODUCTION				
29	B44	ROS	0217	BO	248	76°20.132	077°11.223	✓		374	NOT USED	21						
29	B44	ROS	0235	EN	248	76°19.969	077°11.555	✓										
29	B45	CTD	0358	BE	249	76°20.694	077°02.322	✓	296				✓	CTD				
29	B45	CTD	0407	BO	249	76°20.629	077°02.318	✓	294	288		φ						
29	B45	CTD	0413	EN	249	76°20.589	077°02.335	✓	288									
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE - BE - bottom echosounder																		

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

CAST	250	DOWNCAST	753	1439
		UPCAST	1440	2023

CAST	251	DOWNCAST	1012	2448
		UPCAST	2449	6433

CAST	252	DOWNCAST	740	1511
		UPCAST	1512	2255

CAST	253	DOWNCAST	627	1968
		UPCAST	1969	6181

CAST	254	DOWNCAST	749	1910
		UPCAST	1911	5202

CAST	255	DOWNCAST	700 -	2907
		UPCAST	2908	4950

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE			OF		
1998			MAY			PIERRE RADISSON			9812			19					
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	B30	CTD	0821	BE	250	7700.666	07727.116	✓	172				✓	CTD			
29	B30	CTD	0833	BO	250	7700.606	07726.791	✓	169	166		0		(2 mi from B30			
29	B30	CTD	0835	EN	250	7700.606	07726.1643	✓	168					due to ice).			
29	B31	ROS	0931	BE	251	7659.860	07711.098	✓	277		13321-		✓	BIO (BASIC)			
29	B31	ROS	0941	BO	251	7659.791	07710.692	✓	280	270	13341	21		+ CHEM			
29	B31	ROS	1001	EN	251	7659.622	07709.767	✓	316								
29	B32	CTD	1211	BE	252	7700.034	07647.750	✓	189				✓	CTD			
29	B32	CTD	1218	BO	252	7659.981	07647.132	✓	181	187	13342 → 13360	0		Note EN time 5 min late.			
29	B32	CTD	1237	EN	252	7659.850	07645.525	✓	204								
29	B33	ROS	1734	BE	253	7659.550	07611.077	✓	207				✓	BASIC STATION.			
29	B33	ROS	1742	BO	253	7659.447	07610.501	✓		208	13342 → 13358	17		BIOLOGY CAST			
29	B33	ROS	1803	EN	253	7659.037	07609.387	✓	224								
29	B33	ROS	1928	BE	254	7658.732	07609.920	✓	220				✓	BASIC STATION			
29	B33	ROS	1936	BO	254	7658.532	07609.822	✓		217	13361 → 13378	18		CHEMISTRY CAST			
29	B33	ROS	1952	EN	254	7658.227	07609.509	✓									
29	B34	CTD	2100	BE	255	7659.905	07534.070	✓	513								
29	B34	CTD	2114	BO	255	7659.647	07533.054	✓		502		0					
29	B34	CTD	2123	EN	255	7659.427	07532.311	✓									
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
dritter

USW -

sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

CAST	256	DOWNCAST	616	2910
		UPCAST	2911	5081

31 May

45% 6m

30% 9m

11:25 local

20% 12m

10% 17m

1% 24m

0.1% 51m

CAST	257	DOWNCAST	913	4078
		UPCAST	4079	6983

CAST	258	DOWNCAST	749	3765
		UPCAST	3766	9253

CAST	259	DOWNCAST	715	3137
		UPCAST	3138	7851

CAST	260	DOWNCAST	635	2483
		UPCAST	2484	5629

CAST	261	DOWNCAST	712	2191
		UPCAST	2192	5249

YEAR1998

MONTHMAY

SHIPPIERRE RADISSON

CRUISE9812

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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
29	B35	CTD	2218	BE	256	76°59' 604	075°03' 381	✓	550				✓	
29	B35	CTD	2231	BO	256	76°59' 211	075°03' 325	✓		534		φ		
29	B35	CTD	2241	EN	256	76°58' 900	075°03' 263	✓						
30	B105	CTD	0313	BE	257	77°31' 032	076°14' 046	✓	485				✓	
30	B105	CTD	0330	BO	257	77°30' 472	076°15' 586	✓	458	453		φ		
30	B105	CTD	0344	EN	257	77°30' 032	076°16' 529	✓						
30	B106	ROS	0644	BE	258	77°40' 487	075°50' 321	✓	684				✓	
30	B106	ROS	0702	BO	258	77°40' 053	075°50' 325	✓	681	664	13379 → 13387	9		
30	B106	ROS	0728	EN	258	77°39' 373	075°50' 604	✓	674					
30	B107	ROS	1127	BE	259	78°06' 074	075°06' 324	✓	619		13388 -		✓	(one bottle # not used - changed downcast)
30	B107	ROS	1141	BO	259	78°05' 802	075°05' 947	✓	620	605	13402	16		
30	B107	ROS	1203	EN	259	78°05' 410	075°05' 540	✓	621					Stair cases 120-270 m.
30	Cape H. H.	CTD	2318	BE	260	78°30' 828	074°10' 608	✓	368				✓	Contaminants.
30	C.H.	CTD	2328	BO	260	78°30' 401	074°10' 673	✓		351	NOT USED	18		
30	C.H.	CTD	2345	EN	260	78°29' 865	074°10' 908	✓	353					
31	B108	ROS	1523	BE	261	75°26' 169	076°00' 899	✓	397		13405 -		✓	Short station Phylo + UV cast
31	B108	ROS	1533	BO	261	75°26' 154	076°00' 886	✓	397	388	13410	8		
31	B108	ROS	1547	EN	261	75°26' 142	076°00' 819	✓	398					

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

CAST	262	DOWNCAST	730	2434
		UPCAST	2435	7045

CAST	263	DOWNCAST	904-	2891
		UPCAST	2893	2619

SECCHI ; MICHIS local, 4 JUNE:
12 m

45%	6 m
30%	8 m
20%	11 m
10%	16 m
1%	33 m
0.1%	49 m

CAST	264	DOWNCAST	772-	2888
		UPCAST	2889-	8095

CAST	265	DOWNCAST	898-	2967
		UPCAST	2968-	7228

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		MAY / JUNE		PIERRE RADISSON		9812		21						
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
31	B109	ROS	1825	BE	262	75°17.737	075°58.033	✓	404					
31	B109	ROS	1837	BO	262	75°17.783	075°58.221	✓		402	13411 → 13424	14	✓	Short station Phylo + water cast
31	B109	ROS	1858	EN	262	75°17.808	075°58.617	✓	407					
31	B110	ROS	2215	BE	263	75°10.439	075°54.353	✓	421					
31	B110	ROS	2228	BO	263	75°10.366	075°54.366	✓	422	420		5	✓	Note - bottom sensor did not trigger.
31	B110	ROS	2241	EN	263	75°10.334	075°54.416	✓	420					Antarctic interlaminar 200-400 m
END OF LEG 2														
BEGINNING OF LEG 3														
A	C68	ROS	1620	BE	264	75°12.718	074°57.403	✓	487				✓	BASIC STATION BIOLOGY CAST
A	C68	ROS	1633	BO	264	75°12.695	074°57.462	✓		490	13425 → 13448	24		
A	C68	ROS	1657	EN	264	75°12.646	074°57.905	✓						
A	C68	ROS	1849	BE	265	75°12.512	074°56.841	✓	493				✓	BASIC STATION CHEMISTRY CAST
A	C68	ROS	1902	BO	265	75°12.535	074°56.743	✓		485	13449-13460	12		
A	C68	ROS	1922	EN	265	75°12.515	074°56.566	✓						

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

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

Secchi 0100 local 5 JUNE 8 m 45% 4 KD: .22
 30% 6
 20% 8
 10% 11
 1% 22
 0.1% 33

CAST 266 DOWNCAST 737 3163
 UPLAST 3164 8375

CAST 267 DOWNCAST 721 3189
 UPLAST 3190 8560

CAST 268 DOWNCAST 980- 2881
 UPLAST 2882- 8011

CAST 269 DOWNCAST 1564- 4420
 UPLAST 4421- 9106

CAST 270 DOWNCAST 1101 3114
 UPLAST 3115 6708

CAST 271 DOWNCAST 940 3012
 UPLAST 3013 8010

Secchi: 7.5 m
 45% 4 m
 30% 5
 20% 7
 10% 10
 1% 20
 .1 30

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH JUNE			SHIP PIERRE RADISSON			CRUISE 9812					PAGE 22 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	
5	C54	ROS	0554	BE	266	76°17.230	071°54.485	✓	578				✓	BASIC STATION BIOLOGY CAST	
5	C54	ROS	0609	BO	266	76°17.445	071°54.354	✓		567	13461 → 13484	24			
5	C54	ROS	0633	EN	266	76°17.842	071°53.963	✓	589						
5	C54	ROS	0836	BE	267	76°18.685	071°55.919	✓	591				✓	BASIC STATION CHEMISTRY CAST	
5	C54	ROS	0851	BO	267	76°18.838	071°56.049	✓		579	13485 → 13507	23			
5	C54	ROS	0916	EN	267	76°19.091	071°56.241	✓							
5	C49	ROS	1915	BE	268	76°17.049	074°45.391	✓	474		13505 → 13531	24	✓	LONG STATION METAZOAN + UV	
5	C49	ROS	1928	BO	268	76°17.256	074°45.437	✓	471						
5	C49	ROS	1952	EN	268	76°17.580	074°47.185	✓	479						
5	C49	ROS	2221	BE	269	76°17.386	074°46.301	✓	473		13532 → 13554	23	✓	LONG STATION MICROBES + ODATE	
5	C49	ROS	2241	BO	269	76°17.544	074°46.911	✓	479						
5	C49	ROS	2304	EN	269	76°17.818	074°47.543	✓	486						
6	C49	ROS	0212	BE	270	76°16.586	074°45.320	✓	475		13555 → 13564	10	✓	LONG STATION	
6	C49	ROS	0226	BO	270	76°16.948	074°45.400	✓	460					BASIC BIOLOGY	
6	C49	ROS	0244	EN	270	76°17.075	074°45.881	✓	474						
6	C49	ROS	0332	BE	271	76°17.134	074°45.763	✓	472		13565 → 13585	21	✓	LONG STATION	
6	C49	ROS	0345	BO	271	76°17.179	074°46.018	✓	462					PROD. PRIMARY	
6	C49	ROS	0409	EN	271	76°17.326	074°46.452	✓	478						

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	272	DOWNCAST	762	2704
		UPCAST	2705	7109

Secchi, 0400 local, 7 JUNE
27.5 5.27

CAST	273	DOWNCAST	847	2105
		UPCAST	2706	7196

45 %	13 m
30 %	19 m
20 %	26 m
10 %	37 m
1 %	75 m
0.1 %	110 m

CAST	274	DOWNCAST	1015	3807
		UPCAST	3808	7511

CAST	275	DOWNCAST	1001	3523
		UPCAST	3524	9303

CAST	276	DOWNCAST	1256	3990
		UPCAST	3991	8636

CAST	277	DOWNCAST	786	3399
		UPCAST	3400	8216

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH JUNE			SHIP PIERRE RADISSON				CRUISE 9812				PAGE 23 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	
6	C49	ROS	1004	BE	272	76°17.257	074°43.230	/	460				/	LONG STATION CHEMISTRY CAST	
6	C49	ROS	1015	BO	272	76°17.373	074°43.337	/		455	13586 → 13606	21			
6	C49	ROS	1037	EN	272	76°17.415	074°43.340	/							
7	C2	ROS	0836	BE	273	78°20.779	074°44.576	/	410				/	LONG STATION MICROBES + ODATE CAST	
7	C2	ROS	0848	BO	273	78°20.810	074°44.662	/		401	13607 → 13628	22			
7	C2	ROS	0910	EN	273	78°20.828	074°44.588	/							
7	C2	ROS	1535	BE	274	78°20.516	074°41.265	/	612				/	LONG STATION METAZOAN CAST	
7	C2	ROS	1553	BO	274	78°20.549	074°41.634	/	?	611		10			
7	C2	ROS	1610	EN	274	78°20.633	074°42.017	/	588		NONE	13			
7	C2	ROS	2031	BE	275	78°19.984	074°39.375	/	641		13629 → 13649	21	/	LONG STATION	
7	C2	ROS	2049	BO	275	78°20.110	074°39.652	/	651 (605)	puffed at 605				CHEMISTRY CAST	
7	C2	ROS	2115	EN	275	78°20.278	074°40.652	/	659 ???					BTL IF NOT CLOSED	
8	C2	ROS	0640	BE	276	78°21.965	074°37.135	/	581		13650 → 13662	13	/	LONG STATION: BASIC BIOLOGY	
8	C2	ROS	0057	BO	276	78°22.058	074°34.896	/	563	581					
8	C2	ROS	0120	EN	276	78°22.142	074°36.536	/	565						
8	C2	ROS	0349	BE	277	78°20.733	074°41.094	/	614		NOT USED	21	/	LONG STATION PRIMARY PROD.	
8	C2	ROS	0405	BO	277	78°20.708	074°40.801	/	636	632					
8	C2	ROS	0427	EN	277	78°20.601	074°40.566	/	656						

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

CAST 278: DOWNCAST 676 2665
UPCAST 2666 4464

Secchi, 9000 local, June 8
2ln

45 % 10
30 % 15
20 % 20
10 % 28
1 % 57
0.1 % 85

CAST 279: DOWNCAST 810 3504
UPCAST 3505 10591

CAST 280 DOWNCAST 664 2863
UPCAST 2864 8440

CAST 281 DOWNCAST 999 2055
UPCAST 2056 5393

CAST 282 DOWNCAST 844 1772
UPCAST 1773 6159

CAST 283 DOWNCAST 658 1804
UPCAST 1805 2914

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JUNE			PIERRE RADISSON			9812			24			
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	
8	C3	CTD	1157	BE	278	78 21.028	074 19.967	✓	497				✓		
8	C3	CTD	1209	BO	278	78 21 046	074 19 758	✓	504	496		φ			
8	C3	CTD	1218	EN	278	78 21 081	074 19 711	✓							
8	C4	ROS	1311	BE	279	78 20.950	073 54.314	✓	568				✓	FULL STATION CHEMISTRY CAST +UV	
8	C4	ROS	1327	BO	279	78 20.961	073 53.909	✓	539?	562	13663 → 13686	24			
8	C4	ROS	1401	EN	279	78 21.020	073 53.707	✓							
8	C4	ROS	1527	BE	280	78 20.709	073 51 449	✓	541				✓	FULL STATION BASIC+ MICROBES +ODATE	
8	C4	ROS	1539	BO	280	78 20.659	073 51 210	✓	528	524	13687 → 13706	22			
8	C4	ROS	1606	EN	280	78 20.516	073 50.948	✓	587?						
8	C9	ROS	2139	BE	281	78 59.785	072 17.143	✓	251		13707 → 13717	11	✓	BASIC STATION	
8	C9	ROS	2147	BO	281	78 59.865	072 17.483	✓	248	248			→	WE LOST THE WEIGHT!	
8	C9	ROS	2203	EN	281	79 00.036	072 17.343	✓	242					CHEMISTRY	
9	C9	ROS	0011	BE	282	79 01.417	072 12.453	✓	211	202	13718 → 13734	17	✓	BASIC STATION	
9	C9	ROS	0019	BO	282	79 01.536	072 11.932	✓		202				BIOLOGY	
9	C9	ROS	0040	EN	282	79 01.820	072 11.149	✓	203						
9	C8	CTD	0152	BE	283	79 00.042	072 43.899	✓	255			φ	✓	CTD	
9	C8	CTD	0201	BO	283	79 00.083	072 43.661	✓	255					NO CAST SHEET	
9	C8	CTD	0207	EN	283	79 00.158	072 43.449	✓	252						

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

CAST	284	DOWNCAST	1178	2215
		UPCAST	2216	6264

Secchi depth, 1300 local, 09 June

16 m

CAST	285	DOWNCAST	1030	2190
		UPCAST	2191	6295

45%	8 m
30%	11 m
20%	15 m
10%	22 m
1%	43 m
0.1%	65 m

CAST	286	DOWNCAST	831	1825
		UPCAST	1826	5175

CAST	287	DOWNCAST	711	1701
		UPCAST	1702	5140

CAST	288	DOWNCAST	1435 -	2505
		UPCAST	2506 -	5276

Secchi depth 0130 local, June 10.

5.5	45%	3
	30%	4
	20%	5
	10%	7
	1%	15
	0.1%	22

CAST	289	DOWNCAST	701	3007
		UPCAST	3008	7434

YEAR	1998			MONTH	JUNE		SHIP	PIERRE RADISSON		CRUISE	9812		PAGE	25	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		
9	C7	ROS	0310	BE	284	79 00.177	073 20.606	✓	253		13735 → 13751	18	✓	FULL STATION BIOLOGY		
9	C7	ROS	0321	BO	284	79 00.156	073 20.728	✓		249		(17+1)				
9	C7	ROS	0339	EN	284	79 00.055	073 20.821	✓	253							
9	C7	ROS	0443	BE	285	78 59 650	073 21 282	✓	253				✓	FULL STATION		
9	C7	ROS	0453	BO	285	78 59 560	073 21 281	✓		244	NOT USED	24		PRIMARY PROD		
9	C7	ROS	0512	EN	285	78 59.421	073 21.553	✓								
9	C7	ROS	0621	BE	286	79 00.159	073 17.506	✓	247				✓	FULL STATION METAZOAN + ODATE		
9	C7	ROS	0630	BO	286	79 00 028	073 17.579	✓		241	13752 → 13770	19				
9	C7	ROS	0645	EN	286	78 59.821	073 17.905	✓								
9	C7	ROS	0909	BE	287	79 00.634	073 14.322	✓	240				✓	FULL STATION CHEMISTRY CAST		
9	C7	ROS	0917	BO	287	79 00.661	073 14 193	✓		233	13771 → 13789	19				
9	C7	ROS	0933	EN	287	79 00.716	073 14 187	✓								
9	CP	ROS	1753	BE	288	78° 35.106	074° 25.520	✓	199			7	✓	CTD + ODATE		
9	CP	ROS	1804	BO	288	78° 35.023	074° 26.747	✓	225	223				(NEW STATION AT		
9	CP	ROS	1818	EN	288	78° 34.549	074° 28.198	✓	193					(CAPE HERSCHELL)		
10	C14	ROS	0538	BE	289	77 50.196	075 33 017	✓	542				✓	FULL STATION BASIC CAST		
10	C14	ROS	0552	BO	289	77 50.382	075 32.557	✓		536	13790 → 13804	15				
10	C14	ROS	0613	EN	289	77 50 679	075 32.056	✓								

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

CRUISE
NUMBER

9812

DAILY LOG ^{3/4}
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

10 JUNE - 18 JULY 1998

VESSEL

CCGS "PIERRE RADISSON"

PROJECT

NORTHWATER POLYNYA

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIERRE RADISSON		9812		1						
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	C14	ROS	0654	BE	290	77 49.704	075 32.038	✓	554				✓	FULL STATION PRIMARY PRODUCTION
10	C14	ROS	0659	BO	290	77 49 703	075 31 743	✓		245	NOT USED	24		DID NOT GO TO BOTTOM
10	C14	ROS	0710	EN	290	77 49 744	075 31.039	✓						
10	C14	ROS	0815	BE	291	77 49.885	075 33 114	✓	536				✓	FULL STATION CHEMISTRY CAST
10	C14	ROS	0829	BO	291	77 50.033	075 32.889	✓		525	13805 → 13826	22		
10	C14	ROS	0855	EN	291	77 50 126	075 31.465	✓						
10	C14	ROS	1122	BE	292	77 49.680	075 33.936	✓	524				✓	FULL STATION MICROBES + ODATE
10	C14	ROS	1136	BO	292	77 49.911	075 33.804	✓		512	13827 → 13843	17		
10	C14	ROS	1158	EN	292	77 50 319	075 33 557	✓						
10	C14	ROS	1246	BE	293	77 49.723	075 32.946	✓	542				✓	FULL STATION METAZOAN CAST
10	C14	ROS	1300	BO	293	77 49.996	075 32 692	✓		529	NOT USED.	14		
10	C14	ROS	1318	EN	293	77 50 368	075 32 235	✓						
10	C13	CTD	1455	BE	294	77 49.841	076 01.273	✓	562			0	✓	CTD ONLY
10	C13	CTD	1909	BO	294	77 49.835	076 01.312	✓	559	546				
10	C13	CTD	1918	EN	294	77 49.840	076 01.178	✓	561					

CAST TYPE - BOT - bottle cast
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TIME CODE - BE - beginning time of cast
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DE - deployment time
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POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Secchi, 0130 local, 10 JUNE (C14)

5.5m	45	1	3
	30	1	4
	20	1	5
	10	1	7
	1	1	15
	0.1	1	22

CAST	290	DOWNCAST	751-	976
		UPCAST	977-	3397

CAST	291	DOWNCAST	718 - 3066
		UPCAST	3267 - 8609

CAS	292	DOWNCAST	655 -	2920
		UPCAST	2921 -	7619

CAS+	293	DOWNCAST	782	3101
		UPCAST	3102	6917

CAST	294	DOWNCAST	796 - 2962
		UPCAST	2963 - 4929

CAST	295	DOWNCAST	1901	4776
		UPCAST	4777	7388

Secchi, ≈ 0000 local, June 11 (C-16)
11m

45 %	5
30 %	8
20 %	10
10 %	15
1 %	30
0.1 %	45

CAST	296	DOWNCAST	1664-	4572
		UPCAST	4573-	7286

CAST	297	DOWNCAST	776	4047
		UPCAST	4048	10157

Secchi, $\approx 9h20$ local, June 11 (C-18)

CAST	298	DOWNCAST	580	3486
		UPCAST	3487	8661

	4m
45 %	2
30 %	3
20 %	4
10 %	5
1 %	11
0.1 %	16

CAST	299	DOWNCAST	710	1876
		UPCAST	1877	3118

CAST	300	DOWNCAST	946-	1893
		UPCAST	1894-	4915

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIERRE RADISSON		9812		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
11	C15	CTD	0111	BE	295	77 49.645	074 54.25	✓	650				✓	CTD ONLY
11	C15	CTD	0132	BO	295	77 49.827	074 53.936	✓	?	683				NO DIGITAL DEPTH
11	C15	CTD	0145	EN	295	77 49.500	074 53.858	✓	?					SOUNDER
11	C15A	CTD	0230	BE	296	77 49.931	074 36.362	✓	700? 450?				✓	CTD ONLY: WE
11	C15A	CTD	0250	BO	296	77 50.384	074 35.912	✓	???	698				(MUST NOT ENTER
11	C15A	CTD	0303	EN	296	77 50.475	074 35.878	✓	???					GREENLAND BEFORE 0400
11	C16	ROS	0418	BE	297	77 50.248	074 24.637	✓	708				✓	BASIC STATION BIOLOGY CAST
11	C16	ROS	0437	BO	297	77 50.555	074 24.348	✓	714	695	13844 → 13867	24		
11	C16	ROS	0505	EN	297	77 51.036	074 24.305	✓						
11	C16	ROS	0827	BE	298	77 49.386	074 24.806	✓	680				✓	BASIC STATION CHEMISTRY CAST
11	C16	ROS	0842	BO	298	77 49.534	074 24.587	✓		665	13868 → 13882	15		
11	C16	ROS	0907	EN	298	77 49.776	074 24.377	✓						
11	C17	CTD	1159	BE	299	77 50.031	073 37.111	✓	284				✓	
11	C17	CTD	1208	BO	299	77 50.156	073 37.436	✓		276		φ		
11	C17	CTD	1213	EN	299	77 50.241	073 37.717	✓						
11	C18	ROS	1334	BE	300	77 49.841	073 08.682	✓	169				✓	FULL STATION MICROBES+OONCE CAST
11	C18	ROS	1342	BO	300	77 49.970	073 08.195	✓	185?	184	13883 → 13901	19		
11	C18	ROS	1357	EN	300	77 50.196	073 07.645	✓						

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

CAST 301 DOWNCAST 961 1742
UPCAST 1743 5403

Secchi, local, 2 DIN, C-25

45 % Same as

30 %

20 %

10 %

1 %

0.1 %

CAST 302 DOWNCAST 742 1666
UPCAST 1667 4512

CAST 303 DOWNCAST 1122 2112
UPCAST 2113 4097

CAST 304 DOWNCAST 274 1099
UPCAST 1100 4182

CAST 305 DOWNCAST 658 3718
UPCAST 3719 8673

CAST 306 DOWNCAST 725 3681
UPCAST 3682 9265

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH				SHIP				CRUISE				PAGE		OF	
1998		JUNE				PIERRE RADISSON				9812				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			
11	C18	ROS	1448	BE	301	77° 50.126	073° 09.065	✓	171				✓	FULL STATION METAZOAN + UV			
11	C18	ROS	1456	BO	301	77° 50.175	073° 08.993	✓		166	13902 → 13920	19					
11	C18	ROS	1514	EN	301	77° 50.364	073° 09.042	✓									
11	C18	ROS	1858	BE	302	77° 49.423	073° 08.566	✓	174			16	1	FULL STATION CHEMISTRY			
11	C18	ROS	1904	BO	302	77° 49.368	073° 08.348	✓	174	170	13921 → 13936						
11	C18	ROS	1919	EN	302	77° 49.289	073° 08.123	✓	173					WATER SAMPLE 13921			
11	C18	ROS	2311	BE	303	77° 50.050	073° 06.452	✓	170			6	✓	FULL STATION BASIC BIOLOGY			
11	C18	ROS		BO	303			✓		168							
11	C18	ROS	2330	EN	303	77° 50.293	073° 06.443	✓	172								
12	C18	ROS	0015	BE	304	77° 50.662	073° 09.934	✓	179			23	✓	FULL STATION PRIMARY PROD			
12	C18	ROS	0019	BO	304	77° 50.732	073° 09.960	✓	176	171							
12	C18	ROS	0034	EN	304	77° 50.804	073° 09.988	✓	168								
12	C25	ROS	0646	BE	305	77° 20.735	074° 55.459	✓	665				✓	BASIC STATION CHEMISTRY CAST			
12	C25	ROS	0703	BO	305	77° 20.604	074° 55.344	✓		647	13942 → 13956	15					
12	C25	ROS	0727	EN	305	77° 20.412	074° 55.581	✓									
12	C25	ROS	1011	BE	306	77° 21.377	074° 48.651	✓	674				✓	BASIC STATION BIOLOGY CAST			
12	C25	ROS	1027	BO	306	77° 21.468	074° 49.094	✓		656	13957 → 13975	19					
12	C25	ROS	1054	EN	306	77° 21.612	074° 48.972	✓									

CAST TYPE -

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CAST	307	DOWNCAST	849	3871
		UPCAST	3872	9053

CAST	308	DOWNCAST	764	2210
		UPCAST	2211	6149

CAST	309	DOWNCAST	602	1995
		UPCAST	1996	5416

CAST	310	DOWNCAST	650	2107
		UPCAST	2108	6245

CAST	311	DOWNCAST	742	2306
		UPCAST	2307	5693

CAST	312	DOWNCAST	1300	2673
		UPCAST	2674	6997

13/06/98
Secchi : 02h45 UT
4m as at 09h20

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE				PAGE		OF	
1998		JUNE			PIERRE RADISSON		9812				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
12	C26	ROS	1323	BE	307	77° 20.966	074° 15.992	✓	708'				✓	CTD STATION TRITUM SAMPLING
12	C26	ROS	1341	BO	307	77° 21.161	074° 15.750	✓	728'	712	13976-13989	13		
12	C26	ROS	1406	EN	307	77° 21.287	074° 16.166	✓						
12	C27	ROS	1528	BE	308	77° 20.998	073° 47.366	✓	346				✓	FULL STATION MICROBES + ODATE CAST
12	C27	ROS	1537	BO	308	77° 21.080	073° 47.236	✓		330	13991-4007	17		BOTTOM WATER SAMPLE
12	C27	ROS	1556	EN	308	77° 21.205	073° 47.056	✓	337					13991 (300 m)
12	C27	ROS	1743	BE	309	77° 20.967	073° 47.623	✓	345			22	✓	FULL STATION METAZOANS
12	C27	ROS	1751	BO	309	77° 20.945	073° 47.352	✓		333				
12	C27	ROS	1805	EN	309	77° 20.966	073° 47.055	✓	342					
12	C27	ROS	2201	BE	310	77° 20.817	073° 48.615	✓	362		14008-14025	18	✓	FULL STATION CHEMISTRY
12	C27	ROS	2211	BO	310	77° 20.784	073° 48.453	✓	366	353				
12	C27	ROS	2230	EN	310	77° 20.858	073° 48.478	✓	360					
13	C27	ROS	0226	BE	311	77° 20.978	073° 47.844	✓	350		14026-14040	15	✓	FULL STATION BASIC BIOLOGY
13	C27	ROS	0235	BO	311	77° 21.087	073° 47.958	✓	347	340				OPERATOR BROUGHT ROSSITER OUT WHILE CLOSING
13	C27	ROS	0254	EN	311	77° 21.143	073° 48.376	✓	348					BOTTLE # 13
13	C27	ROS	0337	BE	312	77° 21.100	073° 47.958	✓	348			21	✓	FULL STATION PRIMARY PROD
13	C27	ROS	0349	BO	312	77° 21.158	073° 48.045	✓	347	338				
13	C27	ROS	0409	EN	312	77° 21.469	073° 48.156	✓	342					

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

CAST	313	Down	697	3068
		Up	3069	5357

hadri dula 18h00 13/6
4m

CAST	314	Down	827	3277
		Up	3278	7907

CAST	315	DownCAST	646	3405
		UPCAST	3406	8540

CAST	316	DownCAST	804	2585
		UPCAST	2586	4133

CAST	317	DownCAST	846	2654
		UPCAST	2655	7597

CAST	318	DownCAST	903	2322
		UPCAST	2323	5804

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JUNE			PIERRE RADISSON			9812			5			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
13	C24	CTD	07:16	BE	313	77° 20.877	075° 25.153	✓	592				✓		
13	C24	CTD	07:30	BO	313	77° 20.999	075° 25.363	✓		577		4			
13	C24	CTD	0741	EN	313	77° 21.099	075° 25.575	✓							
13	C23	ROS	0859	BE	314	77° 20.960	076° 00.110	✓	537				✓	BASIC STATION CHEMISTRY CAST	
13	C23	ROS	0913	BO	314	77° 21.048	075° 59.375	✓		525	14041 - 14053	13			
13	C23	ROS	0936	EN	314	77° 21.274	075° 58.324	✓							
13	C23	ROS	1110	BE	315	77° 21.774	075° 52.164	✓	555				✓	BASIC STATION BIOLOGY CAST	
13	C23	ROS	1124	BO	315	77° 21.915	075° 51.125	✓		542	14054 - 14072	19			
13	C23	ROS	1149	EN	315	77° 22.156	075° 49.800	✓							
13	C21	CTD	1648	BE	316	77° 20.263	076° 56.379	✓	433				✓	CTD only	
13	C21	CTD	1658	BO	316	77° 20.261	076° 56.412	✓	?	423				we are at 1.1 m from	
13	C21	CTD	1706	EN	316	77° 20.235	076° 56.464	✓						then 21, at the ice edge	
13	C22	ROS	2331	BE	317	77° 20.513	076° 34.611	✓	401		14073 - 14095	23	✓	FULL STATION MICROBES + O ₂ DATE	
13	C22	ROS	2342	BO	317	77° 20.487	076° 34.377	✓	412	396				CTD? PROBLEM?	
14	C22	ROS	0006	EN	317	77° 20.385	076° 34.350	✓	409					240/15/224?	
14	C22	ROS	0102	BE	318	77° 21.093	076° 34.054	✓	357		14096 - 14114	19	✓	FULL STATION	
14	C22	ROS	0112	BO	318	77° 21.098	076° 33.856	✓	355	345				METAZOANS + UV	
14	C22	ROS	0129	EN	318	77° 21.075	076° 33.643	✓	359					HOMING PROBLEMS	

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

BUT

O.K.

CAST	319	DOWNCAST	664	2096
		UPCAST	2097	6814

CAST	320	DOWNCAST	736	2295
		UPCAST	2296	6504

CAST	321	DOWNCAST	915	1669
		UPCAST	1670	2384

CAST	322	DOWNCAST	841	1826
		UPCAST	1827	2818

CAST	323	DOWNCAST	666	1314
		UPCAST	1315	2058

CAST	324	DOWNCAST	1159 -	2344
		UPCAST	2345 -	4625

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIERRE RADISSON		9812		6		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
14	C-22	ROS	0449	BE	319	77° 21.080	076° 35.157	✓	344				✓	FULL STATION BASIC BIOLOGY
14	C-22	ROS	0458	BO	319	77° 21.097	076° 35.096	/		334	NOT USED	24		Deck unit still not working well.
14	C-22	ROS	0521	EN	319	77° 21.101	076° 34.907	✓						
14	C22	ROS	0638	BE	320	77° 20.950	076° 33.665	/	373				✓	FULL STATION CHEMISTRY CAST
14	C22	ROS	0648	BO	320	77° 20.891	076° 33.378	/	387	374	14115 - 14134	20		
14	C22	ROS	0708	EN	320	77° 20.750	076° 32.854	/						
14	C30	CTD	1215	BE	321	77° 00.198	077° 27.098	✓	164				✓	2 miles from station. Station in pack ice.
14	C30	CTD	1223	BO	321	77° 00.187	077° 27.142	✓		157		φ		
14	C30	CTD	1226	EN	321	77° 00.168	077° 27.168	✓						
14	C31	CTD	1343	BE	322	77° 00.285	077° 12.904	✓	239				✓	
14	C31	CTD	1351	BO	322	77° 00.281	077° 13.071	✓		230		φ		
14	C31	CTD	1356	EN	322	77° 00.306	077° 12.965	✓						
14	C32	CTD	1737	BE	323	77° 00.414	076° 48.687	✓	166			φ	✓	On the ice edge
14	C32	CTD	1743	BO	323	77° 00.435	076° 48.885	✓	166	168				
14	C32	CTD	1746	EN	323	77° 00.424	076° 48.941	✓	166					
14	C33	ROS	2057	BE	324	77° 00.358	076° 12.833	✓	209		14135 - 14144		✓	BASIC STATION CHEMISTRY
14	C33	ROS	2107	BO	324	77° 00.160	076° 12.540	✓	210	204				
14	C33	ROS	2119	EN	324	76° 59.905	076° 12.013	✓	210					

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

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ROS -

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NET -

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DRF -

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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

GPS -

LOR -

LORAN

LORAN

CAST	325	DOWNCAST	777	1956
		UPCAST	1957	5038

CAST	326	DOWNCAST	605	2773
		UPCAST	2774	5908

CAST	329	DOWNCAST	6249	12870
		UPCAST	12871	18529

CAST	329	DOWNCAST	11551	13509
		UPCAST	13529	15102

CAST	330			
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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE						
1998		JUNE		PIERRE RADISSON		9812		7 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
14	C-33	ROS	2240	BE	325	76° 58.908	076° 13.764	/	159		14145 -214163	19	✓	BASIC STATION BIOLOGY
14	C-33	ROS	2248	BO	325	76 58.851	076° 14.274	✓	192	193				BTL #17 DID NOT CLOSE
14	C-33	ROS	2304	EN	325	76 58.514	076° 15.053	✓	193					(BOTTOM CLOSED, NOT TOP)
15	C-34	ROS	0024	BE	326	77 00.411	075 36.568	✓	514		14144 → 14171	8		CTD STATION TRITIUM CAST
15	C-34	ROS	0035	BO	326	77 00.423	075 36.881	✓	508	496	MUCHO PROBLEMS STARTED AT 50m ON ITS WAY UP. MISFIRED AND			
15	C-34	ROS	0052	EN	326	77 00.423	075 37.461	✓	508		DISK FULL MESSAGES (2 FILES ONLY AT THE END): 7 BTL CLOSED			
I COPIED 98120325.COD TO 98120326.COD						I (H) CREATED A *.HDR FROM A PREVIOUS STATION AND A *.EDT FROM THE *.RAW						NO EDT, NO HDR AND NO COD FILES; RAW AND BTL ONLY		
I RAN SCALER: STM O.K. TO GO														
15	C-31	ROS		BE	327						14172 → 14183	12		FULL STATION BASIC BIOLOGY
15	C-31	ROS		BO	327									(1.8 min from station)
15	C-31	ROS		EN	327									
15	C31	CTD	2015	BE	328	76° 58.41	077° 18.216		330					CTD with GIBCO SBO
16	C35	CTD		BE	329				559					
16	C35	CTD	0950	BO	329	76° 59.931	075° 02.466			455		Ø		CTD with GIBCO SBO
16	C35	CTD	1002	EN	329	76° 59.831	075° 02.701							BASIC STATION

CAST TYPE -

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

USW -

sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

Cont 330 DWN: 4106 5449
 UP: 5467 6793

Swath Depth

3 m

Cont 331 DWN: 3701 4998
 UP: 5003 6377

45 = 1
30 = 2
20 = 3
10 = 4
1 = 8
0.1 = 12

CAST 332 DOWNCAST 11665 4217
 UPLAST 4818 5936

CAST 333 DOWNCAST 1082 3892
 UPLAST 3893 8813

CAST 334 DOWNCAST 1330 4038
 UPLAST 4039 9805

CAST 335 DOWNCAST 898 2348
 UPLAST 2349 4042

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE					PAGE		OF	
1998		JUNE			PIERRE RADISSON		9812					7		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	C101	CTD	1945	BE	330				107						
16	C101	CTD		BO	330										
16	C101	CTD	2030	EN	330	76° 44.861	076° 10.491	✓							
17	C102	CTD		BO	331										
17	C102	CTD		BO	331										
17	C102	CTD	0025	EN	331	76° 35.607	076° 32.558	✓	112	106					
17	C104	CTD		BE	332				201						
17	C104	CTD	0511	BO	332	76° 23 214	076° 42.796			181					
17	C104	CTD	0518	EN	332	76° 23 333	076° 43.387	✓							
18	C36	ROS	1803	BE	333	77 00.863	074 25.145	G10		✓	14184 - 14196		✓	BASIC STATION CHEMISTRY CAST	
18	C36	ROS	1821	BO	333	77 00.621	074 25.054	611	559	✓		13		WE CHANGED THE FWD SETTINGS	
18	C36	ROS	1844	EN	333	77 00.368	074 24.733	004		✓				BOTTOM SAMPLE: 14/84	
18	C36	ROS	2032	BE	334	76 59.453	074 23.315	572		✓	14197 - 14219	23	✓	BASIC STATION BIOLOGY CAST	
18	C36	ROS	2050	BO	334	76 59.294	074 23.256	578	568	✓					
18	C36	ROS	2117	EN	334	76 59.007	074 23.275	577		✓					
18	C37	CTD	2228	BE	335	77 00.511	073 47.562	320		✓			✓		
18	C37	CTD	2239	BO	335	77 00.407	073 46.614	323	314	✓		φ			
18	C37	CTD	2247	EN	335	77 00.308	073 46.042	315		✓					

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

CAST	336	DOWNCAST	105	3217
		UPCAST	3218	9806

Richi depth
7 m

CAST	337	DOWNCAST	792	3064
		UPCAST	3065	8292

45 %	3
30 %	5
20 %	7
10 %	9
1 %	19
0.1 %	27

CAST	338	DOWNCAST	679	3185
		UPCAST	3186	8309

CAST	339	DOWNCAST	664	3035
		UPCAST	3036	7472

CAST	340	DOWNCAST	783	3349
		UPCAST	3350	8754

CAST	341	DOWNCAST	1896	3779
		UPCAST	3780	7197

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIEGRE RADISSON		9812		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
19	C-40	ROS	0135	BE	336	77 00.062	072 25.472	✓	567		14215 → 14242	24	✓	FULL STATION METROGES + DATE + PALUSH
19	C-40	ROS	0150	BO	336	76 59.972	072 25.394	✓	573	559				WE SKIPPED THIS
19	C-40	ROS	0221	EN	336	76 59.774	072 25.274	✓	560		LAST 3 ATL FOR: THEY			BECAUSE OF THE WEERE NOT TRIPPED.
19	C40	ROS	0330	BE	337	77 00.604	072 23.375	✓	519		14243 → 14261	19	✓	FULL STATION BASIC BIO + UV + ...
19	C40	ROS	0343	BO	337	77 00.536	072 23.035	✓	528	517				
19	C40	ROS	0408	EN	337	77 00.465	072 22 905	✓	544					
19	C40	ROS	0448	BE	338	77 00 004	072 25.053	✓	570				✓	FULL STATION PRIMARY PRODUCTION
19	C40	ROS	0502	BO	338	77 00.060	072 25.068	✓		563	NOT USED	24		WEIGHT DID NOT WORK TOUCHED BOTTOM
19	C40	ROS	0526	EN	338	77 00 098	072 25.149	✓	561					
19	C40	ROS	0628	BE	339	77 00.024	072 26 350	✓	559				✓	FULL STATION METAZOAN + TRITIUM
19	C40	ROS	0642	BO	339	77 00 060	072 26.510	✓		552	14262 → 14283	22		
19	C40	ROS	0703	EN	339	77 00.085	072 26 873	✓						
19	C40	ROS	1022	BE	340	77 00 607	072 27 029	✓	535				✓	FULL STATION CHEMISTRY CAST
19	C40	ROS	1037	BO	340	77 00.642	072 26.895	✓		523	14284 - 14306	23		
19	C40	ROS	1103	EN	340	77 00.647	072 26 480							
19	C39	CTD	1949	BE	341	77 00.263	072 47.663	✓	413	4			✓	
19	C39	CTD	2007	BO	341	77 00.472	072 48.132	✓	416	407				
19	C39	CTD	2023	EN	341	77 00.615	072 48.400	✓						

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

CAST	342	DOWNCAST	920	2445
		UPCAST	2446	6862

CAST	343	DOWNCAST	697	2266
		UPCAST	2267	6002

CAST	344	DOWNCAST	781	2942
		UPCAST	2943	5215

CAST	345	DOWNCAST	1204	3823
		UPCAST	3824	9618

CAST	346	DOWNCAST	806	3249
		UPCAST	3250	8977

CAST	347	DOWNCAST	740	2367
		UPCAST		

Secchi disk

8 m

45	4
30	6
20	8
10	11
1	22
0.1	33

Secchi disk, 0640 local, 20 JUNE C52

6 m

45 %	3 m
30 %	4 m
20 %	6 m
10 %	8 m
1 %	16 m
0.1 %	24 m

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR	1998			MONTH	JUNE		SHIP	PIERRE RADISSON			CRUISE	9812			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			
19	C-38	ROS	2355	BE	342	76 59.962	073 17.039	✓	293		14309 → 14328	22	✓	BASIC STATION BIOLOGY			
20	C-38	ROS	0005	BO	342	76 59.894	073 16.584	✓	292	287	<u>WARNING</u>	23		BOTTLES TRIPPED; BTL 1-7 OK			
20	C-38	ROS	0028	EN	342	76 59.679	073 15.580	✓	285		14315 → 100m and BTL 9-23 CORRESPOND TO SAMPLE DEPTHS 8-22.						
20	C-38	ROS	0119	BE	343	76 59.810	073 12.568	✓	327		14329 → 14340	12/14	✓	BASIC STATION CHEMISTRY CAST			
20	C-38	ROS	0128	BO	343	77 00.000	073 12.601	✓	327	320				11 and 13 are leaking: no good			
20	C-38	ROS	0147	EN	343	76 59.557	073 12.150	✓	313					for oxygen → NOT USED			
20	CS1	CTD	0843	BE	344	76 16.410	073 37.484	✓	507				✓				
20	CS1	CTD	0857	BO	344	76 16.440	073 37.807	✓		500			Ø				
20	CS1	CTD	0907	EN	344	76 16.481	073 37.970	✓									
20	C52	ROS	1052	BE	345	76 17.069	073 03.220	✓	568				✓	BASIC STATION CHEMISTRY CAST			
20	C52	ROS	1109	BO	345	76 17.038	073 03.005	✓		559	14341 - 14362	22					
20	C52	ROS	1138	EN	345	76 17.166	073 02.776	✓									
20	C52	ROS	1350	BE	346	76 17.052	073 03.313	✓	568				✓	BASIC STATION CHEMISTRY CAST			
20	C52	ROS	1409	BO	346	76 17.094	073 03.445	✓		555	14363 - 14378	16					
20	C52	ROS	1431	EN	346	76 17.267	073 03.649	✓									
20	C53	CTD	1731	BO	347	76 17.361	072 27.361	✓	562				✓	FLUD MAY ~20m			
20	C53	CTD		BE	347			✓			TEMPERATURE PROTECTOR			LEFT ON → NO T°C			
20	C53	CTD		EN	347			✓			CTD BROKE DOWN!			STOPPED AT 928m			

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

CAST	348	DOWNCAST	946 - 3555
		UPCAST	NONE

for the dish

.18m

CAST	349	DOWNCAST	846 - 3395
		UPCAST	3396 - 8142

45	8
30	13
20	17
10	24
11	49

CAST	350	DOWNCAST	2044 - 8397
(SEA-BIRD)		UPCAST	8463 - 14812

0.1	23
-----	----

CAST	351	DOWNCAST	2180	6995
(sea-bird)		UPCAST	6996	13156

CAST	352	DOWNCAST	4182	8633
(sea-bird)		UPCAST	8634	last one 9960

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIERRE RADISSON		9812		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
21	C54	ROS	0148	BE	348	76 20.174	071 49.762	✓	630		14379 → 14394	16	✓	FULL STATION MICROBES
21	C54	ROS	0204	BO	348	76 20.151	071 49.714	✓	630	616	SYSTEM "	BLEW "		@ 630 m ⇒ NO BOTTLES
21	C54	ROS		EN	348			✓			TRIPPED!			
21	C54	ROS	0610	BE	349	76 19.667	071 54.138	✓	616				✓	FULL STATION PRIMARY PRODUCTION
21	C54	ROS	0625	BO	349	76 19.640	071 54.427	✓		606	NOT USED	24		
21	C54	ROS	0648	EN	349	76 19.719	071 54.794	✓						
21	C54	ROS	08	BE		76	071 56							FULL STATION BASIC CAST
21	C54	ROS		BO							14379 - 14394	16		CANCELLED:
21	C54	ROS		EN										WINCH IS DOWN
21	C54	CTD		BE	350				580					FOREDECK CTD
21	C54	CTD		BO	350									SEA-BIRD
21	C54	CTD	1830	EN	350	76° 18.127	071° 56.504	✓	71	514 (500 m cobb)				
22	C55	CTD	0412	BE	351	76 17.936	071 24.714		650					CTD WITH GYROQ SEA-BIRD
22	C55	CTD	0421	BO	351	76 17.979	071 24.981			501				
22	C55	CTD	0439	EN	351	76 18.038	071 25.236	✓						
22	C56	CTD	0545	BE	352	76 18.356	070 54.513		655					CTD WITH GYROQ SEA-BIRD
22	C56	CTD	0556	BO	352	76 18.364	070 54.564			513				Battery died on way up
22	C56	CTD	0608	EN	352	76 18.368	070 54.533	✓						

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

CAST	353	DOWNCAST	3668	7867
(Seabird)		UPCAST	7868	12814

Locality: 13h30, 22/06/98
4m

CAST	354	DOWNCAST	815	2570
		UPCAST	2571	8671

45 : 2

30 : 3

20 : 4

10 : 6

1 : 17

0.1 : 18

CAST	355	DOWNCAST	792	2794
		UPCAST	2795	7234

CAST	356	DOWNCAST	848	2946
		UPCAST	2947	9187

CAST	357	DOWNCAST	649	2950
		UPCAST	2951	7091

CAST	358	DOWNCAST	200	295
		UPCAST	2916	7227

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP		CRUISE					PAGE		OF	
1998		JUNE			PIERRE RADISSON		9812					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	
22	C53	CTD	1313	BE	353	76 16.978	072 31.736		467				✓	CTD, GIRDQ'S SCABIRD	
22	C53	CTD	1325	BO	353	76 17.093	072 31.741			453		φ			
22	C53	CTD	1338	EN	353	76 17.165	072 31.986	✓							
22	C50	ROS	1755	BE	354	76 16.240	074 07.536	✓	450		14395 → 14409	15	✓	FULL STATION MICROBES + ODATE	
22	C50	ROS	1807	BO	354	76 16.107	074 07.612	✓	449	437		all cloud			
22	C50	ROS	1835	EN	354	76 15.765	074 07.539	✓	461						
22	C50	ROS	1933	BE	355	76 16.309	074 07.559	✓	446		14410 → 14430	21	✓	FULL STATION MEGAZOANS + 34	
22	C50	ROS	1945	BO	355	76 16.104	074 07.755	✓	448	439		all cloud			
22	C50	ROS	2008	EN	355	76 15.635	074 07.327	✓	450						
22	C50	ROS	2347	BE	356	76 16.305	074 13.706	✓	450		14431 → 14454	24	✓	FULL STATION CHEMISTRY	
23	C50	ROS	0001	BO	356	76 16.177	074 14.126	✓		439		all cloud		FLUO WAY: 10m f @ 20m	
23	C50	ROS	0030	EN	356	76 15.844	074 15.032	✓	458						
23	C50	ROS	0222	BE	357	76 15.707	074 13.271	✓	457		14455 → 14468	14	✓	FULL STATION BASIC BIOLOGY	
23	C50	ROS	0235	BO	357	76 15.552	074 13.671	✓	462	446		all cloud		#17 in bagane!	
23	C50	ROS	0255	EN	357	76 15.243	074 14.325	✓	464						
23	C50	ROS	0341	BE	358	76 15.395	074 11.521	✓	456			24	✓	FULL STATION PRIMARY PROD.	
23	C50	ROS	0355	BO	358	76 15.673	074 11.937	✓		442.8	NOT USED				
23	C50	ROS	0415	EN	358	76 15.478	074 12.588	✓							

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 -

GLOBAL

GPS -

LOR -

LOR -

LORAN

CAST	359	DOWNCAST	692	2972
		UPCAST	2973	8698

CAST	360	DOWNCAST	569	2241
		UPCAST	2242	3862

CAST	361	DOWNCAST	820	1758
		UPCAST	1759	2570

CAST	362	DOWNCAST	784	2385
		UPCAST	2386	5984

CAST	363	DOWNCAST	732	2249
		UPCAST	2250	6444

CAST	364	DOWNCAST	1277	2838
		UPCAST	2839	4133

Secchi 4m (C49)

45%	2 m
30%	3 m
20%	4 m
10%	5 m
1%	11 m
0.1%	16 m

Secchi (C47, 23 June 1110 local)

4m

45%	2
30%	3
20%	4
10%	5
1%	11
0.1%	16

Secchi (1400 local 23 June)

8m

45	4
30	6
20	8
10	11
1	22
0.1	33

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH JUNE			SHIP PIERRE RADISSON				CRUISE 9812				PAGE 12 OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
23	C49	ROS	0746	BE	359	76 17.876	074 41.886	✓	461				✓	BASIC STATION BIOLOGY CAST + NUTRIENTS	
23	C49	ROS	0758	BO	359	76 17.963	074 42.130	✓		450	14469 → 14490	22			
23	C49	ROS	0826	EN	359	76 18.104	074 43.044	✓							
23	C48	CTD	1155	BE	360	76 18.570	075 20.880	✓	390				✓		
23	C48	CTD	1205	BO	360	76 18.562	075 22.050	✓	384	375		0			
23	C48	CTD	1213	EN	360	76 18.587	075 22.909	✓							
23	C46	CTD	1352	BE	361	76 19.882	076 28.165	✓	171				✓		
23	C46	CTD	1401	BO	361	76 19.953	076 28.720	✓		166		0			
23	C46	CTD	1405	EN	361	76 19.962	076 29.073	✓							
23	C47	ROS	1517	BE	362	76 19.245	075 49.034	✓	346				✓	BASIC STATION CHEMISTRY CAST	
23	C47	ROS	1527	BO	362	76 19.287	075 49.808	✓		332	14491 → 14503	13			
23	C47	ROS	1545	EN	362	76 19.355	075 50.574	✓							
23	C42	ROS	1826	BE	363	76 19.655	075 54.435	✓	323		14504 → 14522	19	✓	BASIC STATION BIOLOGY CAST	
23	C42	ROS	1836	BO	363	76 19.672	075 54.739	✓	322	314		all closed			
23	C42	ROS	1857	EN	363	76 19.695	075 55.226	✓	319						
23	C45	CTD	2038	BE	364	76 20.186	077 00.188	✓	295			0	✓	FLUO MAR (8.5) @ 20m	
23	C45	CTD	2051	BO	364	76 20.239	077 00.157	✓		289				2.4 @ surface and 35m	
23	C45	CTD	2058	EN	364	76 20.248	077 00.139	✓	295						

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

CAST	365	DOWNCAST	942	2675
		UPCAST	2676	8114

CAST	366	DOWNCAST	1038	2698
		UPCAST	2699	6977

CAST	367	DOWNCAST	899	2698
			2699	6595

CAST	368	DOWNCAST	937	3071
		UPCAST	3072	7359

CAST	369	DOWNCAST	867	2789
		UPCAST	2790	7598

CAST	370	DOWNCAST	495	1646
		UPCAST	1647	2579

fuel
Sum

4570	2
30	4
20	5
10	7
1	14
0.1	20

10 h 30 Prod
23/06/95

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		PIERRE RADISSON		9812		13						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
24	C44	ROS	0105	BE	365	76 22.843	077 25.113	✓	385		14523-D 14541	19	✓	FULL STATION MICROBES + DATE
24	C44	ROS	0117	BO	365	76.22.809	077 25.365	✓	392	387		all closed		
24	C44	ROS	0142	EN	365	76 22.768	077 26.039	✓	399					
24	C44	ROS	0235	BE	366	76 22.856	077 25.521	✓	395		14542-D 14557	16	✓	FULL STATION BASIC BIOLOGY
24	C44	ROS	0247	BO	366	76 22.822	077 25.552	✓	398	386		all closed		
24	C44	ROS	0308	EN	366	76 22.716	077 26.005	✓	403					
24	C44	ROS	0356	BE	367	76 22.289	077 26.459	✓	399				✓	FULL STATION PRIMARY PROD.
24	C44	ROS	0409	BO	367	76 22 133	077 26.654	✓		382	NOT USED	20		
24	C44	ROS	0427	EN	367	76 21 926	077 26 741	✓						
24	C44	ROS	0548	BE	368	76 22 490	077 25.651	✓	400				✓	FULL STATION METAZOON + TRITIUM
24	C44	ROS	0600	BO	368	76 22 248	077 25 739	✓		391	14558 - 14579	21		
24	C44	ROS	0622	EN	368	76 22 029	077 25 576	✓						
24	C44	ROS	1011	BE	369	76 22 113	077 24 740	✓	394				✓	FULL STATION CHEMISTRY
24	C44	ROS	1024	BO	369	76 22 001	077 25.037	✓	398	395	14580 → 14599	20		
24	C44	ROS	1046	EN	369	76 21 749	077 25.176	✓						
24	C43	CTD	1742	BE	370	76 23.622	077 45.005	✓	266				✓	max fluo @ 20m
24	C43	CTD	1749	BO	370	76 23.540	077 45.136	✓	268	262		Ø		8.4 mf
24	C43	CTD	1744	EN	370	76 23.501	077 45.341	✓	269					

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

CAST	371	DOWNCAST	1537	3381
		UPCAST	3382	5047

Secchi, 25 June 0115 local (C60)

5 m
 45 % 2
 30 % 4
 20 % 5
 10 % 7
 1 % 14
 0.1 % 20

CAST	372	DOWNCAST	955	3778
		UPCAST	3779	9956

CAST	373	DOWNCAST	818	3664
		UPCAST	3665	8905

CAST	374	DOWNCAST	804	3323
		UPCAST	3324	5693

CAST	375	DOWNCAST	857	3027
		UPCAST	3028	6819

CAST	376	DOWNCAST	1840	6302	(379.5 m)
		UPCAST	6900	10908	

col 5: TRA
 6: PLU

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JUNE			PIERRE RADISSON			9812			14			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
25	C59	CTD	0409	BE	371	75°15.371	079°15.715	✓	407				✓		
25	C59	CTD	0425	BO	371	75°15.313	079°15.825	✓		393		∅			
25	C59	CTD	0433	EN	371	75°15.264	079°15.769	✓							
25	C60	ROS	0530	BE	372	75°15.416	078°55.009	✓	642				✓	BASIC STATION CHEMISTRY CAST	
25	C60	ROS	0547	BO	372	75°15.239	078°54.496	✓		624	14600-14621	22			
25	C60	ROS	0617	EN	372	75°14.954	078°53.709	✓							
25	C60	ROS	0756	BE	373	75°15.158	078°56.001	✓	642				✓	BASIC STATION BIOLOGY CAST	
25	C60	ROS	0813	BO	373	75°14.931	078°55.394	✓		628	14622-14642	20			
25	C60	ROS	0838	EN	373	75°14.602	078°54.066	✓							
25	C61	CTD	1045	BE	374	75°14.730	078°34.639	✓	550				✓		
25	C61	CTD	1100	BO	374	75°14.637	078°34.225	✓		541		∅			
25	C61	CTD	1112	EN	374	75°14.628	078°33.877	✓							
25	C62	ROS	1226	BE	375	75°15.016	078°12.775	✓	453				✓	CTD STATION, TRITIUM CAST	
25	C62	ROS	1239	BO	375	75°15.002	078°12.929	✓		442	14642-14648	7		CAN'T CLOSE BOTTLES	
25	C62	ROS	1258	EN	375	75°15.024	078°13.077	✓				∅		JUST CTD CAST NO SHEETS (NO BOTTLES)	
25	C64	CTD	1230	BE	376				383				✓	CTD - SEABIRD (GIRAC)	
25	C64	CTD	1739	BO	376	75°14.567	077°09.372			360 (cable)		∅		I always get a "funny" salinity profile on the way down.	
25	C64	CTD	1750	EN	376	75°14.730	077°09.552	✓						O.K. on the way up	

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

CAST	377	DOWNCAST	858	2628
		UPCAST	2622	9632

bedlin depth
16 m

14 hoo local
25/06/58

45 % : 8

30 % : 12

20 % : 16

10 % : 22

1 % : 43

0.1 % : 65

CAST	378	DOWNCAST	728	2421
		UPCAST	2422	4264

CAST	379	DOWNCAST	867	2883
		UPCAST	2884	8600

bedlin depth
10 m

20 hoo local
25/06/58

CAST	380	DOWNCAST	868	2943
		UPCAST	2944	7804

45 % : 6

30 % : 8

20 % : 11

10 % : 16

1 % : 33

0.1 % : 49

CAST	381	DOWNCAST	868	3047
		UPCAST	3048	6558

CAST	382	DOWNCAST	867	3390
		UPCAST	3391	5818

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE						
1998		JUNE		PIERRE RADISSON		5812		15 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
25	C-64	ROS	1946	BE	377	75 14.136	077 09.565	✓	382		14 649 → 14 672	24	✓	CAST BIO + CHEM COMBINED
25	C-64	ROS	1951	BO	377	75 14.046	077 09.492	✓	382	375		all cloud		
25	C-64	ROS	2025	EN	377	75 13.729	077 09.251	✓	380					
25	C-66	CTD	2209	BE	378	75 15.439	076 04.638	✓	402			∅	✓	
25	C-66	CTD	2220	BO	378	75 15.446	076 04.646	✓	402	400				SCM @ 20 m; 1.5mg
25	C-66	CTD	2229	EN	378	75 15.435	076 04.547	✓	403					
26	C-68	ROS	0019	BE	379	75 15.479	074 59.658	✓	476		14673 → 14692	20	✓	BASIC CHEMISTRY CAST
26	C-68	ROS	0032	BO	379	75 15.517	074 59.561	✓	475	467		all cloud		
26	C-68	ROS	0103	EN	379	75 15.512	074 59.222	✓	475					
26	C-68	ROS	0426	BE	380	75 14.921	075 00.356	✓	480				✓	BASIC BIOLOGY CAST
26	C-68	ROS	0439	BO	380	75 14.946	075 00.669	✓		470	14693-14712	20		
26	C-68	ROS	0502	EN	380	75 15.011	075 01.313	✓						
26	C68	ROS	0552	BE	381	75 15.060	075 02.655	✓	478				✓	BASIC STATION TRITIUM CAST
26	C68	ROS	0605	BO	381	75 15.084	075 02.934	✓		469	14713-14719	7		
26	C68	ROS	0622	EN	381	75 15.087	075 03.292	✓						
26	C70	CTD	1017	BE	382	75 20.519	073 53.565	✓	604				✓	
26	C70	CTD	1033	BO	382	75 20.491	073 53.852	✓		593		∅		
26	C70	CTD	1045	EN	382	75 20.488	073 54.078	✓						

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

CAST	383	DOWNCAST	902	3355
		UPCAST	3356	10485

CAST	384	DOWNCAST	926	3493
		UPCAST	3494	7626

CAST	385	DOWNCAST	861	3215
		UPCAST	3216	8542

CAST	386	DOWNCAST	768	2901
		UPCAST	2902	7529

CAST	387	DOWNCAST	737	3110
		UPCAST	3111	5110

CAST	388	DOWNCAST	901	2617
		UPCAST	2618	7248

④
Secchi, 15 m
27/6, 0540 local, C80

45% 7 m
30% 11 m
20% 14 m
10% 20 m
1% 41 m
0.1% 61 m

①
Secchi 14 m C72
10h10 26/6
LOCAL

45 7
30 10
20 13
10 19
1 38
0.1 57

②
Secchi 12 m 21h10 local
26/06/98

45 6
30 8
20 11
10 16
1 38
0.1 49

(C-76)

③
Secchi 14 23h00

45 7
30 10
20 13
10 19
1 38
0.1 57

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JUNE			PIERRE RADISSON			9812			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	
26	C72	ROS	1418	BE	383	75° 26.248	072° 53.150	✓	607				✓	BASIC STATION CHEM + BIO CAST	
26	C72	ROS	1433	BO	383	75° 26.362	072° 53.396	✓		596	14720-14743	24			
26	C72	ROS	1507	EN	383	75° 26.683	072° 53.968	✓							
26	C74	ROS	2125	BE	384	75° 30.133	071° 48.823	✓	597		14744 → 14752	9	✓	TRITIUM CAST	
26	C74	ROS	2140	BO	384	75° 30.132	071° 48.575	✓	598	576		all cloud		SCM: 0.9 mg @ 30 m	
26	C74	ROS	2200	EN	384	75° 30.189	071° 49.249	✓	597	(582 cala)					
27	C76	ROS	0132	BE	385	75° 35.271	070° 46.538	✓	550		14753 → 14766	14 of 16	✓	BASIC STATION CHEMISTRY	
27	C76	ROS	0146	BO	385	75° 35.407	070° 47.143	✓	550	541				chemists don't use 11, 13	
27	C76	ROS	0212	EN	385	75° 35.572	070° 47.537	✓	550					SCM: 0.8 @ 22 m?	
27	C76	ROS	0347	BE	386	75° 36.158	070° 50.174	✓	547		14767 → 14788	22		BASIC BIOLOGY CAST	
27	C76	ROS	0400	BO	386	75° 36.219	070° 50.365	✓		541					
27	C76	ROS	0424	EN	386	75° 36.360	070° 50.809	✓							
27	C78	CTD	0709	BE	387	75° 39.819	069° 42.783	✓	530				✓	A 539 pieds de la surface	
27	C78	CTD	0724	BO	387	75° 39.812	069° 43.085	✓		516		Ø			
27	C78	CTD	0733	EN	387	75° 39.802	069° 43.186	✓							
27	C80	ROS	0955	BE	388	75° 44.770	068° 39.898	✓	361				✓	BASIC STATION CHEMISTRY CAST	
27	C80	ROS	1006	BO	388	75° 44.757	068° 39.626	✓		350	14789- 14800	12		SCM @ 33 m	
27	C80	ROS	1029	EN	388	75° 44.693	068° 39.528	✓							

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

CAST 389

DOWNCAST
UPCAST861 2500
2501 7173Acclm depth
13 m12h30 local
27/06/98

CAST 390

DOWNCAST
UPCAST707 1970
1971 356645 6
30 4
20 12
10 12
1 35
0.1 52

CAST 391

DOWNCAST
UPCAST819 2161
2162 6536

CAST 392

DOWNCAST
UPCAST817 2194
2195 6330

CAST 393

DOWNCAST
UPCAST938 1886
1887 3242

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE			PAGE		OF	
1998		JUNE			PIERRE RADISSON			2812			17			
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	C80	ROS	1155	BE	389	75° 44' 58.8	068° 38.689	/	353				/	BASIC STATION BIOLOGY CAST
27	C80	ROS	1206	BO	389	75° 44' 57.8	068° 38.653	/		345	14801 - 14820	20		
27	C80	ROS	1229	EN	389	75° 44' 58.4	068° 38.604	/						
27	C81	ROS	1441	BE	390	75° 46' 34.9	068° 17.381	/	333				/	CTD STATION WATER FOR MARCIE
27	C81	ROS	1450	BO	390	75° 46' 33.3	068° 17.433	/		321	NO NUMBER USED	2		
27	C81	ROS	1457	EN	390	75° 46' 33.9	068° 17.437	/						
27	C82	ROS	1706	BE	391	75° 48' 20.8	067° 56.476	/	295		14821 → 14839	19	/	BASIC STATION CHEMISTRY + 34 + METAZOANS
27	C82	ROS	1715	BO	391	75° 48' 17.8	067° 56.717	/	298	296				
27	C82	ROS	1736	EN	391	75° 48' 14.5	067° 56.762	/	298					
27	C82	ROS	2050	BE	392	75° 47' 51.2	067° 58.002	/	295		14840 → 14860	21	/	BASIC STATION BIOLOGY
27	C82	ROS	2100	BO	392	75° 47' 48.2	067° 58.055	/	295	292				
27	C82	ROS	2120	EN	392	75° 47' 39.7	067° 58.200	/	301					
27	C83	ROS	2214	BE	393	75° 48' 65.3	067° 40.402	/	221			3	/	WATER FOR THE METAZOANS
27	C83	ROS	2222	BO	393	75° 48' 65.5	067° 40.402	/	221	216				FROM 10 m
27	C83	ROS	2229	EN	393	75° 48' 65.6	067° 40.370	/	220					(no cast sheet)
END OF LEG 3														

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

CAST	394	DOWNCAST	866	2803
		UPCAST	2804	7299

Serchi, 2000 local 30/6
D68 15m

CAST	395	DOWNCAST	620	2631
		UPCAST	2632	7403

45%	7
30%	11
20%	14
10%	20
1%	41
0.1%	61

CAST	396	DOWNCAST	826	2790
		UPCAST	2791	8004

CAST	397	DOWNCAST	756	2704
		UPCAST	2705	7521

CAST	398	DOWNCAST	776	2868
		UPCAST	2829	5960

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE			PAGE		OF	
1998		JUNE / JULY			PIERRE RADISSON			9812			18		OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
BEGINNING OF LEG 4														
30	D68	ROS	1803	BE	394	75°15.236	075°00.650	✓	477				✓	SEDIMENT TRAPS Box cores
30	D68	ROS	1817	BO	394	75°15.244	075°00.637	✓		472	14862- 14882	21		PARTICLES FLUX
30	D68	ROS	1837	EN	394	75°15.217	075°00.722	✓						MOORING STN D1
1	D68	ROS	0015	BE	395	75°14.915	075°00.783	✓	478				✓	CHEMISTRY BIOLOGY
1	D68	ROS	0026	BO	395	75°14.876	075°00.949	✓		468	14883- 14905	23		MICROBES
1	D68	ROS	0049	EN	395	75°14.909	075°01.040	✓						
1	D68	ROS	0302	BE	396	75°15.309	074°59.510	✓	477				✓	PRIMARY PRODUCTION
1	D68	ROS	0315	BO	396	75°15.320	074°59.219	✓		467	NOT USED	24		
1	D68	ROS	0340	EN	396	75°15.371	074°58.833	✓						
1	D68	ROS	1225	BE	397	75°14.589	074°56.634	✓	481				✓	METAZOAN PARTICLES FLUX
1	D68	ROS	1237	BO	397	75°14.569	074°56.450	✓		476	14906- 14914	24		ONLY PP BOTTLES HAVE #
1	D68	ROS	1300	EN	397	75°14.619	074°55.906	✓						
1	D68	ROS	2314	BE	398	75°14.025	074°57.717	✓	486				✓	DEAN, MARCIE, MATHIAS MICROBES CAST
1	D68	ROS	2327	BO	398	75°14.033	074°57.452	✓		477	NOT USED	12		
1	D68	ROS	2341	EN	398	75°14.074	074°56.864	✓						

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

see water log

TIME CODE

BE

bottom

EN

end

RO

rosette

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

CAST	399	DOWNCAST	944	2786
		UPCAST	2787	7084

Secchi, 3 JULY 19h50 local
@ S4 13m

45 %	6
30 %	9
20 %	12
10 %	18
1 %	35
0.1 %	53

CAST	400	DOWNCAST	786	2682
		UPCAST	2683	8227

CAST	401	DOWNCAST	786	2637
		UPCAST	2638	7694

Secchi, 4 JULY ≈ 22h30 local
12m S1

CAST	402	DOWNCAST	677	2404
		UPCAST	2405	6769

45	6
30	8
20	11
10	16
1	33
0.1	49

CAST	403	DOWNCAST	876	2167
		UPCAST	2168	6133

CAST	404	DOWNCAST	860	2010
		UPCAST	2011	5876

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JULY			PIERRE RADISSON			9812			19			
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	
3	S4 ^{DSD}	ROS	0152	BE	399	76°16.697	074°11.315	/	453				/	SEDIMENT TRAPS BOX CORES	
3	S4 ^{DSD}	ROS	0205	BO	399	76°16.719	074°11.493	/		445	14915-14923	17		PARTICLES FLUX	
3	S4 ^{DSD}	ROS	0225	EN	399	76°16.813	074°11.616	/						ONLY PARTICLES FLUX HAVE NUMBERS	
4	S4 ^{DSD}	ROS	0006	BE	400	76°16.462	074°09.227	✓	450				✓	CHEMISTRY, BIOLOGY	
4	S4	ROS	0018	BO	400	76°16.476	074°09.013	✓		439	14924-14947			MICROBES	
4	S4	ROS	0044	EN	400	76°16.561	074°08.858	✓							
4	S4 ^{DSD}	ROS	0242	BE	401	76°17.075	074°09.056	✓	456				✓	PRIMARY PRODUCTION	
4	S4	ROS	0254	BO	401	76°17.150	074°09.141	✓		443	NOT USED	24			
4	S4	ROS	0318	EN	401	76°17.252	074°09.668	✓							
4	S4 ^{DSD}	ROS	1306	BE	402	76°16.518	074°13.604	✓	448				✓	METAZOAN PARTICLE FLUX	
4	S4	ROS	1317	BO	402	76°16.561	074°13.864	✓		437	14948-14955	24			
4	S4	ROS	1338	EN	402	76°16.675	074°13.854	/							
5	S1	ROS	0233	BE	403	76°18.978	070°13.393	/	265				✓	CHEMISTRY BIOLOGY	
5	S1	ROS	0242	BO	403	76°19.004	070°13.497	✓		255	14956-14976	21		MICROBES	
5	S1	ROS	0302	EN	403	76°18.955	070°13.441	✓							
5	S1	ROS	0429	BE	404	76°18.984	070°13.689	✓	264				✓	PRIMARY PRODUCTION	
5	S1	ROS	0438	BO	404	76°18.976	070°13.624	✓		255	NOT USED	24			
5	S1	ROS	0457	EN	404	76°19.000	070°13.635	✓							

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

CAST	405	DOWNCAST	1289	2379
		UPLAST	2380	5082

SS
Secchi, 20kSD local 7/7
14 m

45% 7

30% 10

20% 13

10% 19

1% 38

0.1% 57

CAST	406	DOWNCAST	858	1851
		UPLAST	1852	5064

CAST	407	DOWNCAST	741	2574
		UPLAST	2575	5533

CAST	408	DOWNCAST	842	2525
		UPLAST	2526	7470

CAST	409	DOWNCAST	807	2700
		UPLAST	2701	8180

CAST	410	DOWNCAST	742	2653
		UPLAST	2654	7546

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JULY			PIERRE RADISSON			9812			20			
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	
5	SI	ROS	0809	BE	405	76°18.961	070°14.421	✓	255				✓	PARTICLES FLUX	
5	SI	ROS	0820	BO	405	76°18.979	070°14.441	✓		248	14979- 14987	9			
5	SI	ROS	0832	EN	405	76°18.961	070°14.739	✓							
5	SI	ROS	2233	BE	406	76°19.356	070°12.357	✓	221				/	MICROBES METAZOAN	
5	SI	ROS	2242	BO	406	76°19.327	070°12.440	✓		217	14988-14993	17		PARTICLES FLUX	
5	SI	ROS	2257	EN	406	76°19.348	070°12.569	✓							
6	S4	ROS	0454	BE	407	76°16.827	074°09.668	✓	450				✓	MICROBES	
6	S4	ROS	0506	BO	407	76°16.986	074°09.534	✓		436	NOT USED	8			
6	S4	ROS	0520	EN	407	76°17.243	074°09.462	✓							
7	SS	ROS	0658	BE	408	76°22.137	077°23.476	✓	370				✓	BOX CORES PARTICLES FLUX	
7	SS	ROS	0709	BO	408	76°22.023	077°22.583	✓		365	14994- 15002	18		TFA	
7	SS	ROS	0732	EN	408	76°21.945	077°20.547	✓							
8	SS	ROS	0206	BE	409	76°21.344	077°25.932	✓	395				✓	BIOLOGY CHEMISTRY	
8	SS	ROS	0218	BO	409	76°21.182	077°25.578	✓		390	15003- 15026	24		MICROBES	
8	SS	ROS	0244	EN	409	76°20.844	077°24.737								
8	SS	ROS	0401	BE	410	76°20.001	077°22.619	✓	402				✓	PRIMARY PRODUCTION	
8	SS	ROS	0413	BO	410	76°19.918	077°22.229	✓		390	NOT USED	24			
8	SS	ROS	0436	EN	410	76°19.650	077°21.997	✓							

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

CAST	411	DOWNCAST	902	2390
		UPCAST	2391	5911

Secchi 4.5 m 19445, 10/17

45 %	2
30 %	3
20 %	4
10 %	6
1 %	12
0.1 %	18

CAST	412	DOWNCAST	815	2480
		UPCAST	2481	6894

CAST	413	DOWNCAST	693	3271
		UPCAST	3272	7981

CAST	414	DOWNCAST	807	3403
		UPCAST	3404	10 367

CAST	415	DOWNCAST	832	3655
		UPCAST	3656	9169

CAST	416	DOWNCAST	787	3526
		UPCAST	3527	8810

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH				SHIP				CRUISE				PAGE		OF	
1998		JULY				PIERRE RADISSON				9812				21			
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			
9	SS/D44	ROS	0646	BE	411	76°23.549	077°25.517	✓	368				✓	MICROBES			
9	SS	ROS	0657	BO	411	76°23.449	077°25.293	✓		359	NOT USED	8					
9	SS	ROS	0713	EN	411	76°23.382	077°25.100	✓									
9	SS/D44	ROS	0804	BE	412	76°22.955	077°24.515	✓	368				✓	METAZOAN + PARTICLES FLUX			
9	SS	ROS	0815	BO	412	76°22.866	077°24.535	✓		362	15027-15032	24					
9	SS	ROS	0836	EN	412	76°22.677	077°24.493	✓									
10	NI/D5	ROS	1458	BE	413	78°20.812	073°37.921	✓	581				✓	BOX CORES MICROBES			
10	NI	ROS	1512	BO	413	78°20.834	073°37.928	✓		579	15033-15041	19		PARTICLE FLUX TFA's			
10	NI	ROS	1535	EN	413	78°20.772	073°37.996	✓									
11	NI/D5	ROS	0025	BE	414	78°21.005	073°38.595	✓	565				✓	BIOLOGY CHEMISTRY			
11	NI	ROS	0040	BO	414	78°20.956	073°38.853	✓		575	15042-15065	24					
11	NI	ROS	0113	EN	414	78°20.929	073°39.503	✓									
11	NI	ROS	0309	BE	415	78°20.749	073°38.933	✓	598				✓	PRIMARY PRODUCTION			
11	NI	ROS	0325	BO	415	78°20.711	073°39.395	✓	609	602	NOT USED	24					
11	NI	ROS	0352	EN	415	78°20.687	073°40.001	✓	628								
11	NI/D5	ROS	0806	BE	416	78°20.902	073°39.828	✓	555				✓	METAZOAN PARTICLES FLUX			
11	NI	ROS	0822	BO	416	78°21.195	073°41.493	✓	536	530	15066-15072	24					
11	NI	ROS	0847	EN	416	78°21.563	073°43.532	✓	550								

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

Secchi 5m 12 JULY NZ

CAST	417	DOWNCAST	664	2721
		UPCAST	2722	6549

45 % 2

30 % 4

20 % 5

10 % 7

1 % 14

0.1 % 20

CAST	418	DOWNCAST	680	3396
		UPCAST	3397	8446

CAST	419	DOWNCAST	772	3181
		UPCAST	3182	9440

CAST	420	DOWNCAST	930	2556
		UPCAST	2557	6739

CAST	421	DOWNCAST	768	4770
		UPCAST	4771	11294

CAST	422	DOWNCAST	572	2591
		UPCAST	2592	5201

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JULY			PIERRE RADISSON			9812			22			
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	N3	ROS	1638	BE	417	78 21.107	074 26.214	/	530				✓	PARTICLES FLUX MICROBES	
11	N3	ROS	1651	BO	417	78 21.141	074 26.851	✓	506	501	15073 - 15081	13		ZOO PLANKTON	
11	N3	ROS	1709	EN	417	78 21.169	074 27.855	✓							
12	N2/DL	ROS	0207	BE	418	78 21.499	074 40.610	/	632				✓	PARTICLES FLUX MICROBES	
12	N2	ROS	0222	BO	418	78 21.686	074 39.883	✓		617	15082 - 15090	24		ZOO PLANKTON	
12	N2	ROS	0246	EN	418	78 21.845	074 38.691	✓							
13	N2/DL	ROS	0014	BE	419	78 22.788	074 35.011	✓	550				✓	BIOLOGY CHEMISTRY	
13	N2	ROS	0029	BO	419	78 22.944	074 35.424	✓		538	15091 - 15114	24		MICROBES	
13	N2	ROS	0058	EN	419	78 23.303	074 36.548	✓							
13	N2/DL	ROS	0316	BE	420	78 22.392	074 42.789	✓	313				✓	PRIMARY PRODUCTION	
13	N2	ROS	0321	BO	420	78 22.588	074 43.195	✓		304	NOT USED	24			
13	N2	ROS	0341	EN	420	78 23.034	074 43.608	/							
13	N2/DL	ROS	0906	BE	421	78 21.678	074 41.170	✓	560				✓	METAZOAN PARTICLE FLUX	
13	N2	ROS	0928	BO	421	78 21.924	074 39.120	✓	630	608	15115 - 15123	24			
13	N2	ROS	0959	EN	421	78 22.405	074 38.466	✓	588					VERY WIDE ANGLE	
13	N2/DL	ROS	2306	BE	422	78 21.004	074 43.178	✓	450				✓	Box CORES MICROBES	
13	N2	ROS	2318	BO	422	78 21.175	074 44.132	✓	381	369	NOT USED	10			
13	N2	ROS	2330	EN	422	78 21.444	074 44.883		288						

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

CAST	423	DOWNCAST	631	3387
		UPCAST	3388	5889

Secchi ~20000 local, 15/7 E2
4m

45 %	2
30 %	3
20 %	4
10 %	5
1 %	11
0.1 %	16

CAST	424	DOWNCAST	685	1880
		UPCAST	1881	4453

CAST	425	DOWNCAST	937	2496
		UPCAST	2497	6750

CAST	426	DOWNCAST	762	1956
		UPCAST	1957	6156

CAST	427	DOWNCAST	718	1802
		UPCAST	1803	4676

CAST	428	DOWNCAST	576	2127
		UPCAST	2128	3462

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1978			MONTH JULY			SHIP PIERRE RADISSON				CRUISE 9812				PAGE 23 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	
14	N2/DL	CTD	1102	BE	423	78°21.660	074°41.109	✓	559				✓		
14	N2	CTD	1117	BO	423	78°21.749	074°40.875	✓	568	554		Ø			
14	N2	CTD	1129	EN	423	78°21.849	074°40.845	✓							
15	E2	ROS	0009	BE	424	78°01.406	073°14.255	✓	204				✓	BOX CORES	
15	E2	ROS	0016	BO	424	78°01.284	073°13.958	✓		199	15124 - 15130	17		PARTICLES FLUX SEDIMENT TRAP	
15	E2	ROS	0030	EN	424	78°01.031	073°13.873	✓							
15	E2	ROS	1546	BE	425	78°03.168	073°32.419	✓	372				✓	METAZOAN PARTICLE FLUX	
15	E2	ROS	1558	BO	425	78°03.038	073°32.682	✓	379	368	15131 - 15138	24			
15	E2	ROS	1618	EN	425	78°02.813	073°32.672	✓	384						
16	E2	ROS	0013	BE	426	78°02.351	073°20.020	✓	276				✓	BIOLOGY CHEMISTRY	
16	E2	ROS	0022	BO	426	78°02.252	073°20.054	✓		263	15139 - 15161	23		MICROBES	
16	E2	ROS	0042	EN	426	78°02.107	073°20.432	✓	271						
16	E2	ROS	0308	BE	427	78°03.422	073°18.894	✓	258				✓	PRIMARY PRODUCTION	
16	E2	ROS	0316	BO	427	78°03.501	073°18.967	✓		247	NOT USED	19			
16	E2	ROS	0330	EN	427	78°03.637	073°19.284	✓							
16	E2	CTD	0551	BE	428	77°54.372	073°42.735	✓	376				✓	CTD FOR SEDIMENT TRAPS	
16	E2	CTD	0601	BO	428	77°54.482	073°42.943	✓		373		Ø			
16	E2	CTD	0607	EN	428	77°54.527	073°43.331	✓							

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring
ROS - rosette
NET - net haul
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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 7 m 20h20 local 16/7

CAST 429 DOWNCAST
UPCAST 718 2766
2767 7372

45% 3
30% 5
20% 7

CAST 430 DOWNCAST
UPCAST 877 2882
2883 8541

10% 9
1% 19
0.1% 28

CAST 431 DOWNCAST
UPCAST 790 2625
2626 7720

CAST 432 DOWNCAST
UPCAST 787 2777
2778 7078

CAST 433 DOWNCAST
UPCAST 669 2289
2290 3743

CAST 434 DOWNCAST
UPCAST 660 3012
3013 6884

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE		OF	
1998			JULY			PIERRE RADISSON			9812					24			
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	E1/D40	ROS	1715	BE	429	77°00.949	072°31.547	✓	499				✓	SEDIMENT TRAPS BOX CORES			
16	E1	ROS	1728	BO	429	77°00.950	072°31.712	✓		489	15162 - 15170	24		PARTICLES FLUX MICROBES			
16	E1	ROS	1749	EN	429	77°01.021	072°31.706	✓									
17	E1/D40	ROS	0035	BE	430	77°00.385	072°41.995	✓	454				✓	MICROBES BIOLOGY			
17	E1	ROS	0047	BO	430	77°00.357	072°42.239	✓		444	15171 - 15194	24		CHEMISTRY			
17	E1	ROS	0115	EN	430	77°00.336	072°43.001	✓									
17	E1/D40	ROS	0300	BE	431	77°00.090	072°44.878	✓	428				✓	PRIMARY PRODUCTION			
17	E1	ROS	0311	BO	431	77°00.078	072°45.051	✓		417	NOT USED	23					
17	E1	ROS	0335	EN	431	77°00.138	072°45.013	✓									
17	E1/D40	ROS	0804	BE	432	77°02.243	072°44.389	✓	478				✓	METAZOAN PARTICLE FLUX			
17	E1	ROS	0817	BO	432	77°02.299	072°44.424	✓		468	15195-15200	22					
17	E1	ROS	0837	EN	432	77°02.394	072°44.566	✓									
17	E1/D40	CTD	2037	BE	433	77°07.246	073°07.138	✓	392				✓	CTD AFTER SEDIMENT TRAPS RECOVERY			
17	E1	CTD	2047	BO	433	77°07.309	073°07.215	✓		386		∅					
17	E1	CTD	2054	EN	433	77°07.349	073°07.296	✓									
18	D2	ROS	0019	BE	434	76°59.772	074°59.548	✓	562				✓	BOX CORES SEDIMENT TRAPS			
18	D2	ROS	0032	BO	434	76°59.719	074°59.625	✓	558	547	15201-15206	14		PARTICLES FLUX			
18	D2	ROS	0051	EN	434	76°59.615	074°59.770	✓									

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

CRUISE
NUMBER

9812

DAILY LOG 4 / 4
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

18 JULY -

VESSEL

PIERRE RADISSON

PROJECT

NORTHWATER POLYNYA

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JULY		PIERRE RADISSON		9812		1		1				
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	D2	ROS	09:11	BE	435	77° 00.267	074° 59.119	/	565				✓	METAZOAN PARTICLE FLUX
18	D2	ROS	0928	BO	435	77° 00.101	074° 58.261	/		556	15207-15212	15		
18	D2	ROS	0949	EN	435	76° 59.889	074° 57.744	/						
19	D2	ROS	0031	BE	436	76° 59.793	075° 00.315	/	559				✓	BIOLOGY CHEMISTRY
19	D2	ROS	0044	BO	436	76° 59.780	075° 00.614	/		547	15213-15236	24		MICROBES
19	D2	ROS	0110	EN	436	76° 59.757	075° 00.967	/						
19	D2	ROS	0301	BE	437	77° 00.357	074° 59.717	/	569				✓	PRIMARY PRODUCTION
19	D2	ROS	0316	BO	437	77° 00.334	074° 59.625	/		556	NOT USED	24		
19	D2	ROS	0342	EN	437	77° 00.318	074° 59.708	/						
19	D2	CTD	0456	BE	438	76° 57.826	074° 49.775	/	555				✓	CTD AFTER SEDIMENT TRAPS RECOVERY
19	D2	CTD	0509	BO	438	76° 57.725	074° 50.013	/		549		Ø		
19	D2	CTD	0519	EN	438	76° 57.648	074° 50.023	/						
20	S2	ROS	0016	BE	439	76° 17.620	071° 54.651	/	582				✓	BOX CORES
20	S2	ROS	0030	BO	439	76° 17.678	071° 54.363	/		571	15237-15242	15		SEDIMENT TRAPS PARTICLE FLUX
20	S2	ROS	0049	EN	439	76° 17.644	071° 53.969	/						

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

CAST	435	DOWNCAST	807	3614
		UPCAST	3615	8093

Secchi -19440 local, 18/7 6m

45 %	3
30 %	4
20 %	6
10 %	8
1 %	16
0.1 %	24

CAST	436	DOWNCAST	747	389
		UPCAST	3190	8425

CAST	437	DOWNCAST	762	3374
		UPCAST	3377	8706

CAST	438	DOWNCAST	698	2886
		UPCAST	2857	4898

CAST	439	DOWNCAST	612	3166
		UPCAST	3167	6944

Secchi = 1116 local, 12m SZ/DST

CAST	440	DOWNCAST	713	3002
		UPCAST	3003	5114

45% 6 m

30% 8 m

20% 11 m

10% 16 m

1% 33 m

0.1% 49 m

CAST	441	DOWNCAST	701	3475
		UPCAST	3476	6045

CAST	442	DOWNCAST	810	3113
		UPCAST	3114	8034

CAST	443	DOWNCAST	697	1461
		UPCAST	1462	2307

CAST	444	DOWNCAST	820	3235
		UPCAST	3236	8593

CAST	445	DOWNCAST	700	3071
		UPCAST	3072	8148

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE					PAGE		OF	
1998		JULY			PIERRE RADISSON			9812					2		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		
20	S2/D9	CTD	0606	BE	440	76° 17. 012	071° 59. 555	✓	563				✓			
20	S2	CTD	0620	BO	440	76° 16. 977	071° 59. 524	✓		551		Ø				
20	S2	CTD	0629	EN	440	76° 16. 961	071° 59. 340	✓								
20	S2	CTD	1130	BE	441	76° 17. 975	071° 52. 702	✓	586				✓			
20	S2	CTD	1146	BO	441	76° 17. 979	071° 52. 366	✓		576		Ø				
20	S2	CTD	1158	EN	441	76° 18. 007	071° 52. 191	✓								
20	S2	ROS	1407	BE	442	76° 17. 348	071° 54. 714	✓	579				✓	METAZOAN PARTICLES FLUX		
20	S2	ROS	1422	BO	442	76° 17. 331	071° 54. 472	✓		567	15243-15248	22				
20	S2	ROS	1445	EN	442	76° 17. 342	071° 53. 935	✓								
20	S2	CTD	2348	BE	443	76° 17. 444	071° 55. 020	✓	582				✓			
20	S2	CTD	2355	BO	443	76° 17. 525	071° 54. 916	✓		201		Ø				
20	S2	CTD	2359	EN	443	76° 17. 566	071° 55. 022	✓								
21	S2	ROS	0325	BE	444	76° 17. 344	071° 52. 853	✓	578				✓	BIOLOGY CHEMISTRY		
21	S2	ROS	0339	BO	444	76° 17. 337	071° 52. 521	✓		566	15249-15272	24				
21	S2	ROS	0409	EN	444	76° 17. 188	071° 51. 904	✓								
21	S2/D54	ROS	0527	BE	445	76° 16. 621	071° 50. 218	✓	577				✓	PRIMARY PRODUCTION		
21	S2	ROS	0540	BO	445	76° 16. 479	071° 49. 929	✓		563	NOT USED	24				
21	S2	ROS	0605	EN	445	76° 16. 218	071° 49. 707	✓								

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

CAST

446

DOWNCAST

776

2915

UPCAST

2916

4915

DAILY LOG

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[illegible]