

DAILY LOG

CRUISE
NUMBER

2000-25

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

4 - 20 Sept. 2000

VESSEL

Tully

PROJECT

Line P

Captain: _____

First Officer: _____

Second Officer: _____

Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer:

Data acquisition program: _____
CTD deck unit make: SBE model: 11+ serial number: 0508

Primary CTD

Make: SEA BIRD model: 9/11 serial number: 0550
 Primary temperature sensor serial number: 2023 Calibration date: 07-Dec-1999
 Primary conductivity sensor serial number: 2173 Calibration date: 02-May-2000
 Secondary temperature sensor serial number: ~~1776~~ 2371 Calibration date: 16-June-1999
 Secondary conductivity sensor serial number: ~~2371~~ 1766 Calibration date: 28-Dec-1999
 Other sensors: TRANSMISSOMETER s/n: 333 DR Cal. 14 July, 2000
 Other sensors: SEAPoint FLUOROMETER s/n: 2228 (Seapoint) offset 10, State Factor 15
 Other sensors: SEAPoint FLUOROMETER s/n: 2229
 Other sensors: S PAR s/n: 6154 QSR2000 responses
 Pressure: 75626 04-June-1999

Secondary CTD

Make: SEABIRD model: 9/11 serial number: 0585

Primary temperature sensor serial number: 2663 Calibration date: 7 MAR 2000

Primary conductivity sensor serial number: 2399 Calibration date: 3 MAR 2000

Secondary temperature sensor serial number: 2668 Calibration date: 7 MAR 2000

Secondary conductivity sensor serial number: 2424 Calibration date: 3 MAR 2000

Other sensors: PRESSURE s/n: 77571 13-MAR-00

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments:

PAR $\rightarrow$ $X=1$ B=0 constant 76335877,600 80

Winches:

- | | | | | | |
|-----------------|-----|-----------|------|------|---------------|
| 1. Swann model: | 329 | serial #: | 1482 | use: | CTD / ROSETTE |
| 2. Swann model: | 329 | serial #: | 1483 | use: | SPARE |
| 3. Swann model: | 331 | serial #: | 1323 | use: | MAORING |
| 4. Swann model: | ? | serial #: | ? | use: | MAORING |
| 5. Swann model: | | serial #: | | use: | |
| 6. Swann model: | | serial #: | | use: | |
| 7. Swann model: | | serial #: | | use: | |
| Comments: | | | | | |

Salinometer: make: Portasal model: _____ serial number: 58609
Comments: _____

Surface Temperature / Salinity Data Logging System:

Program: _____

Sampling interval (seconds): _____

Sensor serial number: _____

Comments: _____

ADCP Setup:

Program version: _____
 Time zone: _____
 Sampling interval (seconds): _____
 Blank beyond transmit: _____
 % pings good threshold: _____
 Comments: _____

Number of depth bins: _____
 Bin length (2X): _____
 Pulse length: _____
 Pings per ensemble: _____

Comments:

222

Doug Yelland 652-0819 home
744-9214 cell
745-6249 Sept 5-11

Winch # 1482 pressure 1600 psi
flow 225 l/m

Seabird Manual: cal. const. = 10^5 / wet cal. factor

$$\frac{10^5}{1.54 \times 10^{-4}} = \frac{\mu\text{Einstein}}{\text{cm}^2 \cdot \text{s}} = 649350649$$

Chan.	Old number = 76335877	(factor of 10 different)
Val	coverer	Sensor
6a	531 - 1095	Transmissometer

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>SEPTEMBER</u>			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
4 5	SAB	ROS	0108	BE	1	48 35 59	123 29.97		225	214	1-12	12		
				BO	1	48 35 56	123 29.97							
				EN	1	48 35.51	123 29.97							
5	JF1	LOOP	0625			48 16.107	123 30.021							LOOPS TAKEN
5	JF2	LOOP	0811			48 18.00	124 00.00							LOOPS TAKEN
5	JF3	LOOP	1004			48 26.95	124 30.00							LOOPS TAKEN
5	JF4	LOOP	1157			48 32.29	124 59.94							LOOPS TAKEN
5	P1	CTD	1407	BE	2	48 34.51	125 30.04		118				H.M.	LOOPS TAKEN
5	P1	CTD	1411	BO	2	48 34.50	125 30.03			110				
5	P1	CTD	1415	EN	2	48 34.50	125 30.01							
5	P2	CTD	1648	BG	3	48 35.98	125 59.95		117				14JF	Loops Taken
5	P2	CTD		BO	3	48 35.98	—11—						14SF	
5	P2	CTD		EN	3	—11—	—11—						14SF	
5	P3	ROS	1841	BE	4	48 37.61	126 19.94		810				14SF	Loops Taken
5	P3	ROS	1901	BO	4	48 37.59	126 19.98			805	13-14	2.		sed. samples
5	P3	ROS		EN	4	48 37.61	126 19.98							
5	P4	MOR	2035			48 38.725	126 35.210							MOORING RELEASE SENT
5	P4	MOR	2100			48 38.800	126 35.370							MOORING END ON DECK
5	P4	MOR	2120											RELEASE ON BOARD

Cast type: BOT = otter cast ROS = Rosette USW = sea water loop Time Code BE = beginning time of cast DE = deployment time
 CTD = CTD NET = net haul BO = bottom time of cast MR = messenger release time
 MOR = mooring DRF = drifter EN = end of cast time RE = recover mooring time

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Year					Month			Ship				Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
5	P4	Loop	2206											Loops taken	
5	P4	CTD	2310	BE	5	48 39 03	126 39 94							PAR Cast for Lipson	
5	P4	CTD	2330	EN	5	48 39 06	126 39 15							PAR Sensor Removed	
6	P4	BOT	0001	BE	6	48 39 19	126 40 29							K.I. PUMPING IRON	
6	P4	ROS	0818	BE	7	48 39.05	126 40.02		1315		15-29	15		101 Go Flo's	
			0846	BO	7	48 39.30	126 40.05			1302					
			0928	EN	7	48 39.37	126 39.90								
6	P4	NETS	1138	BE	8	48 39 32	126 40 15		1300					Bongo's to 150m	
6	P4	NETS	1205		9	48 39 40	126 40 19		1300	60				PHYTO NET TO 60m	
6	P4	NETS	1215		10	"	"		1300	150				TO 150m	
6	P4	BOT	1339	EN	11	48 39 100	126 40 32		1300	50m	30/20/10/6/2 m			Go Flo's / PRODUCTIVITY	
6	P4	Mooring over the side starting at 15:20 LMT													
	Released	1206m	15	47		48° 38.86	126° 35.54								
	P4	NET 1600	BE	12m		1200m (Rob Campbell)				1200				net haul	
6	P4	ROS	18:05	BE	13	48° 39.10	126° 39.98		1311	401	30-47	18			
6	P4	ROS	1814	BO	13	48 39.11	126 39.94								
6	P4	ROS		EN	13										

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? Bernard!

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month Sept			Ship Tully				Cruise I.D. 2000-25		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
6	P5	ROS	2047	BE	14	48° 41.57	127 10.21	✓	2093		48-49	2.		1+3F&B M
			2119	BO		48 41.66	127 10.44							Loops Taken
			2151	EN										
7	P6	ROS	0012	BE	15	48 44.65	127 39.94	✓	2540					can file adjusted for PAR
7	P6			BO	15	48 44.94	127 39.72			2571	50-51	2.		(message from D. Anderson)
7	P6		0143	EN	15	48 44.73	127 38.80			2500				Loops TAKEN
7	P7	ROS	0415	BE	16	48 46.57	128 10.08	✓		2509				
7	P7		0520	BO	16	48 46.31	128 10.65				52	1.		Loops Taken
7	P7		0539	EN	16	48 46.14	128 11.09							
7	P8	ROS	0806	BE	17	48 49.02	128 39.96	✓	2520		53-54	2		loops taken
7	P8		0847	BO	17	48 48.98	128 39.79			2542				2542. and 2500. cal samples
7	P8		0934	EN	17	48 48.88	128. 40.00							
7	P8	NET	0955	BE	18	48 48.98	128. 40.00							150 L VPH
7	P9	ROS	1253	BO	19	48 51.46	129 09.94	✓	2344					Loops TAKEN
7	P9	ROS	1333	BO	19	48 51.39	129 09.94			2352	55-56			SALT @ 2352 + (4 x 2300)
7	P9	ROS	1414	EN	19	48 51.49	129 09.96							
7	P10	ROS	1706	BE	20	48 53.54	129 40.03	✓		2655				Loops Taken
7	P10	ROS	1748	BO	20	48 53.42	129 39.81				57-	1		Salt sample @ 2520m
7	P10	ROS		EN	20	53.56	39.60							

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(NO FINGER)



CTD - 0585

ROS - 0550

DAILY LOG

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Year					Month <i>Sept.</i>			Ship				Cruise I.D. <i>2000-25</i>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
7	P11	CTD	2211	BE	21	48 55.94	130 10.17		2756					CTD 0585
7		CTD	2303	BO	21	48 55 81	130 10 29			2700				loops taken
7		CTD	2347	EN	21	48 55.64	130 10.73							35-40 knot winds
8	P12	CTD	1031	BE	22	48 58.24	130 39.80		3233				Bm	loops taken
			1057	BO	22	48 58.26	130 39.67			1500				
8	P12	CTD	1124	EN	22	48 58 28	130 39 63							
8	P12	NET	1200	BE	23	48 58 30	130 39 64		3022					BONGO to 150m
8	P12	BOT	1230	BO	24	48 57 71	130 40 01		3022					PROD. CAST 50/50/20/10/6/2
8	P12	BOT	1400	BO	25	48 57 71	130 40 01		"					1000m Go Flo
8	P13	CTD	2106	BE	26	49 02.64	131 40.08		3004					Loops Taken
			2138	BO		49 02.63	131 40.17			1500				
			2203	EN		49 02.62	131 40 10							
9	P14	CTD	03:56	BE	27	49 07.45	132 40.05		3316	1500				Loops Taken
9	P14	CTD	04:20	BO		49 07.46	132 40.26							
9	P14	CTD	04:34	EN		49 07.42	132 40.47							
9	P15	CTD	0951	BE	28	49 12.03	133 39.89		3312				Bm	loops taken
			1017	BO		49 12.03	133 39 88			1500				
			1033	EN		49 12.02	133 39.94							

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Year <u>2000</u>					Month <u>SEPT.</u>			Ship <u>TULLY</u>			Cruise I.D. <u>2000-25</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
9	P16	ROS	16:14	BE	29	49° 17.04	134° 39.85	✓	3680	3672	56-76	21		CTD - 0550
		DEEP	17:16	BO		49 17.31	134 40.16							
				EN										
9	P16	ROS	19:51	BE	30	49 17.05	134 40.08	✓	3624		77-93	17		PAR SENSOR ON ROS.
		Shallow	2009	BO	30	49 17.04	134 40.27			400.				
			2033	EN	30	49 17.03	134 40.60							PAR SENSOR REMOVED
9	P16	Net	21:00	BE	31	49 17.04	134 40.51		3623	250				
			21:20	EN	31									
9	P16	Net	21:30	BE	32	49 17.04	134 40.50		3623	500				
					32									
9	P16	Net	22:55	BE	33	49 17 049	134 40.492		3623	1000				
			23:45	EN	33	134								
9	P16	Net	23:50	BE	34	49 17 030	134 41.00		3623	2000				
			24:25	EN	34									
9	P16	Net	0230	BE	35	49 16 703	134 42.00		3624	2600				
			03:35	EN	35									
10	P16	BOT	1000	EN	36				3623	1000				K.I's Go Flo's
10	P16	NET	1100	BE	37	49 17 03	134 39 95		3623	150				Bongo's
10	P16	BOT	1310	EN	38	49 16 85	134 40 53		3623	66				PROD. Go Flo's

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From CTD
10m off bottom

DAILY LOG

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Year 2000					Month 9 / SEPT.			Ship TULLY			Cruise I.D. 2000-25			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	P17	ROS	17:52	BE	39	49° 21.07	135° 39.94	✓	3521	1500	94	1		Loops Taken
			18:19	BO		49 20.94	135 39.86				Salt Sample at			
			1844	EN		49 20.83	135 39.76				1500.4			
10	P18	ROS	2312	BE	40	49 25 99	136 40 22		3820	150	/			PAR CAST FOR M. LIASEN
			2314	BO		49 25 99	136 40 25							LOOPS TAKEN
			2316	EN		49 26 00	136 40 27							
10	P18	ROS	2325	BE	41	49 26 03	136 40 36	✓	3820	1500	95	1		PAR removed.
10			2348	BO		49 26 03	136 40 54							
11			0007	EN		49 25 97	136 40 61							
11	P19	ROS	05:10	BE	42	49 29.98	137 39.96	✓	3913	1500	96	1		Loops Taken
11			0535	BO		49 29.89	137 40.13							
11				EN		29.81	40.26							
11	P20	NET	1130	BE	43	49 33.99	138 39 94				/			BONGO'S TO 150
11	P20	NET	1200	BE	44	49 34.00	138 39 95							PHYTO NETS
11	P20	BOT	1315	EN	45	49 33 25	138 40 75							PROD. CAST
11	P20	ROS	1336	BE	46	49 33 94	138 40 02	✓	3948					DECA ROS. CAST
			1446	BO	46	49 33 53	138 40 71			4027	97-119	23		LOOPS TAKEN
				EN	46									

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Problem with primary salinity from
100 to 600 db.



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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
1)	P20	NET	1741	BE	47	49 34 23	138 39 99		3948	2000				
			1910	EN										
11	P20	Net	1927	BE	48	49 34 02	138 39 88		3949	2000				
			2025	EN										
11.	P20	ROS	2120	BE	49	49 34 06	138 39.76	✓	3948		120-137	18	BM	RAR on
			2126	BO		49 34.12	138 39.95			400.				
			2145			49 34.21	138 39.92							
12	P21	ROS	1436	BE	50	49 37.94	139 39 97	✓	3941				H.M	LOOPS TAKEN
			1503	BO		49 37.67	139 39 52			1500	138			SAL cal sample
			1524	EN		49 37 55	139 39 25							
12	P22	ROS	1943	BE	51	49 41.91	140 39.76	✓	3925				BM	loops taken
			2007	BO		49 41.79	140 39.78			1500	137			check Pri. Salinity
			2029	EN		49 41.71	140 39.47							
13	P23	ROS	0049	BE	52	49 45 90	141 40 07	✓			140-143			SAL (1500) 2x DMS E SURFACE
			0115	BO		49 45 69	141 40 41							LOOPS TAKEN
			0141	EN		49 4 49	141 40 01							
13	P24	ROS	0555	BE	53	49 50.21	142 39.99	✓			144			LOOPS TAKEN
			0621	BO		49 50.20	142 40.19							SAL (1500) #144
			0644	EN		49 50.22	142 40.30							

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at 4200 m, speed on arrival 1.6 m/sec.

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
13	P25	ROS	1101	BE	54	49 59 96	143 36 33	✓	4122		#145			LOOPS TAKEN
			1129	BO		49 59 77	143 36 60			1500				SALIN SAMP #145
			1155	EN		49 59 72	143 36 77							
13	P35	ROS	1457	BE	55	50 00.04	144 18.32							LOOPS TAKEN.
			1526	BO		50 00.22	144 18.63				#146			SAL SAMP #146
			1550	EN		50 00.45	144 18.87							
13	N.E. of P26	MOR	1815	BE		50 06.99	144 49.12		4193					FOSTAR LAUNCH
		MOR	1857	EN		50 07.01	144 49.25							"
13	P26	ROS	2023	BE	56	50 00.05	144 59.95		4227					PAR cast to 150m
			2028	BO		50 00.06	144 59.90			200				
				EN										
13	P26	ROS	2043	BE	57	50 00.06	144 59.82		4227		147-170	24	BOM	Deep Rosette Cast
				BO										Loops Taken
			2331	EN		49 59 99	145 00 18							
14	P26	NET	1130	EN	58	50 00 50	144 59 99			150				BONGO
		NET	1200	EN	59	50 00 50	144 59 99			150/65				PHYTO NETS
		BOT	1225	SC	60	49 59 82	144 59 97			50				PROD. CAST
			1419	EN		49 59 407	144 59 36							
14	P26	DRF	1439	BE	61	50 00 02	144 57 05			100				PRODUCTIVITY DRIFTER

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After Cast #64, on Sept 14 20:30, CTD 550 was taken off the rosette and replaced with CTD 585. The Secondary T sensors were swapped to provide a cross-calibration. The set-up is:

CTD 585	Primary	T	# 2663	CTD 550	2023
		C	2399		2173
	Secondary	T	# 2371		2668
		C	2424		1766
Voltage 0	Fluorometer		# 2229		
Voltage 2	Transmissometer		192 D.		333 DR

Rosette operations were changed to Wimer 1483 Model 329.

#2371 G. .00434755609
 H .000650190969
 I $2.42794905 \times 10^{-5}$
 J $2.34932914 \times 10^{-6}$
 F0 1000

Wimer 1483 pulses, adjusted hydraulic brake.

Pumped fluorometer moved from CTD to Thermosalinograph. CTD still has unpumped fluorometer.

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
14	P26	NET	1603	BE	62	50 00 31	145 00 63		4226	2006				
			1805	EN	62	50 00 32	144 59 92							
14	P26	NET	1857	BE	63	49 59 07	144 59 79		4226	250				
			1915	EN	63	49 59 09	144 59 80							
14	P26	NET	1935	BE	64	49 59 80	144 50 02		4227	500				
			2025	EN	64									
14	P26	DRF	2115	EN		49 59.64	145 53.92							RECOVER PROD. DRIFTER
14	P26	ROS	2208	BE	65	49 59.69	145 00 32	✓	4229		171-188	18	BM	Shallow Rosette
			2217	BO						400				no trans signal
14	P26		22:41	EN		49 59.47	145 01.00							
14	P26	BOT	2335	BE	66	49 59 83	144 59 83							IRON GO FLO'S
15	P26	ROS	0808	BE	67	50 00.05	144 59.80	✓		400	189-206	18	BM	
			0817	BO		50 00.04	144 59.72						RP	
			0832	EN										
15	P26	DRF	2005	EN		50 11.705	144 40.75							PROD. MESSENGER CLOSING TRAPS
15	HL1	USW	2152			50 11.272	144 40.741							First of Homeward Loop Samples
15	HL2	USW	2358			50 23 925	144 31 560							Loops
16	HL3	USW	0201			50 42 54	144 18 06							Loops

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RE = recover mooring time

Sept 17

0305 Broke off HL line & find drifting NOMAD buoy.

INSTITUTE OF OCEAN SCIENCES

Cast type:	BOT = otter 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 time	DE = deployment time MR = messenger release time RE = recover mooring time
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PDT

17 Sept

12:00 low line put on Normal buoy

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	HL 19	USW	1400			51 13 113	136 07 445		3638					Loops; FLUO = 0.4359
17	HL 20		1600			51 19.339	135 38.363		3580					Loops; FLUO 0.5971
17	NOMADPH		1654	BE	70	51 22.84	135 28.35							TEST PH SENSORS.
			1703	BO		51 22.86	135 28.34							
			1815	EN		51 22.94	135 28.31							Recovered NOMAD
17	HL 21	USW	1800			51 21.823	135 19.116							Loops; FLUO = .4880
17	HL 22	USW	2000			51 16.78	134 53.84							Loops; FLUO = .4066
18	HL 23	USW	0001			51 09 956	134 29 705		3362					Loops; FLUO = .4396
18	HL 24	USW	0203			51 01 681	134 03 282		3282					Loops; FLUO = .5678
18	HL 25	USW	0401			50 59 956	133 36.227		3206					Loops; FLUO = .7802
18	HL 26	USW	0600			50 59.992	133 18 656		3044					Loops; FLUO 0.5934
18	HL 27	USW	0800			51 00.052	133 01.767		3010					.5678
18	HL 28	USW	1000			51 00.058	132 43.092		2935					Loops; FLUO = .6154
18	HL 29	USW	1200			50 59.998	132 29 750		2830					Loops; FLUO = .5678
18	HL 30	USW	1400			51 00 289	132 04 734		2660					Loops; FLUO = .5165
18	HL 31	USW	1600			51 00 121	132 02 125		2516					Loops; FLUO = .6300
18	HL 32	USW	1830			51 00.01	131 34.945		2705					Loops; FLUO = .3743
18	HL 33	USW	2004			51 00.012	131 17.251		2742					.4432
18	HL 34	USW	2158			50 59.970	130 57.75		2451					.5751

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Year					Month			Ship				Cruise I.D.		
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19	HL 35	USW	0001			51 00 027	130 33 672		2326					Loops; FLuo = .5275
19	HL 36	USW	0200			51 00 026	130 10 045		2136					Loops; FLuo = .8205
19	HL 37	USW	0410			51 00 020	129 45.986		475					Loops. .9524
20	DF01	NET	1520	BE	71	49 17 027	123 46.591		406	100	220-229			Rob Campbell Rosette
			1530	BE										to top of loop.
20	DF01	NET	1536	BE	72	49 17.002	123 46.705		406	200				tripped @ 101m
			1551	EN										
20	DF03	NET	1553	BE	73	49 16 947	123 46.857		416	300				tripped @ 202m.
			1610	EN										
20	DF01	NET	1616	BE	74	49 16.873	123 47.072		416	400				tripped @ 310
			16	EN										
20	DF03	ROS	1644	BE	75	49 16.85	123 47.25		417		220-229			Rob Campbell Rosette
				BO										cleaned trans. lens.
			1705	EN		49 16.98	123 47.49							no weight below rosette

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