

DAILY LOG

CRUISE
NUMBER

IOS
2001-31

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

17 Sept - 2 Oct 2001

VESSEL

TULLY

PROJECT

Haide Eddies & Nestucca

Captain: _____

Second Officer: _____

Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

Party Chief: DAVE MACKAS

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer: Tower - Esc2

Data acquisition program: Seasaw W/in 32 Ver 5.21

CTD deck unit make: Seabird model: 11 Plus serial number: 0424

Primary CTD

Make: Seabird model: 911+ serial number: 0550

Primary temperature sensor serial number: 2668 Calibration date: 18-Jul-01

Primary conductivity sensor serial number: 2102 Calibration date: 17-Jul-01

Secondary temperature sensor serial number: 2374 Calibration date: 18-Jul-01

Secondary conductivity sensor serial number: 2128 Calibration date: 17-Jul-01

Other sensors: Seapoint Fluorometer s/n: 2229

Other sensors: Seatech Transmissometer s/n: 192D

Other sensors: Biospherical Underwater Par s/n: 4615

Other sensors: SBE 43 Oxy Sensor s/n: 0047

Secondary CTD

Make: Sachival model: 911+ serial number: 0443

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments:

1.1120

1.2797

1.4576

262.2931

262.45903

262.7048

03:48:

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2001					Month Sept			Ship J.D. Tully				Cruise I.D. 2001-31		
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
18	Test	CTD	2:12	BE	1	48° 37.04	123° 29.92							
			2:16	BO		48° 36.95	123° 29.92		213	190	1-24	24		Bottle 17 did not trip.
			2:21	EN		48° 36.92	123° 29.90							
18	Loop 1	USW	10:59		2	48° 16.98	123° 50.08		180					
18	Loop 2	USW	13:06		3	48° 32.119	124° 52.763		99					
18	Loop 3	UWS	2030		4									
18	Loop 4	UWS	2300		5	49° 07.299	126° 27.824		118					
19	Loop 5	USW	0300		6	49° 28.040	127° 13.18		173					
19	Loop 6	UWS	0902		7	49° 50.416	128° 00.961		-					thru time 263.41309
19	Loop 7	UWS	1101		8	50° 11.00	128° 48.12		4200					263.73877
	CSØ1	UWS	1655		9	50° 34.90	129° 41.46							264.16238
		ROS	1558	BE	10	50° 34.93	129° 41.46		2091	1000	1-19	19		6639 hours. Day 262
			1613	BO	1	50° 34.91	129° 41.53							
			1655	EN	1	50° 34.90	129° 41.46							
		NET	1730		11	50° 34.9	129° 41.5							0-250m bongo
	↓	NET	1754		12	50° 34.9	129° 41.5							0-50m bongo
	CSØ2	NET	1918		13	50° 41.4	129° 28.0							0-50m bongo
		NET	1937		14	50° 41.3	129° 28.0							0-250m bongo
	CSØ2	ROS			15									

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DRF = drifter

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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				
19	CS02	ROS	1957	BE	15	50 41.35	129 27.97		1897	1000		0						
	1	1	2010	BO	1	50 41.37	129 28.01		1897	1000								
			2020	EN	1	50 41.38	129 28.03		1893	1								
	LOOP8	USW	2025		16	50 41.38	129 28.03		1893									
19	CS03	ROS	2112	BE	17	50 45.582	129 19.824		232	223	20-30	11						
	1	1	2118	BO	1	50 45.616	129 19.808											
			2136	EN	1	50 45.62	129 19.84											
	CS03	NET	2144		18	50 45.62	129 19.84											
	CS03	NET	2209		19	50 45.64	129 19.82							0-5 Bongo				
	CS04	NET			20									0-20 Bongo				
		NET			21									0-90 Bongo				
		CTD	2330	BE	22	50° 49.62	129° 13.10							0-50 Bongo				
			2337	BO	22	50° 49.12	129° 13.08		99	97	31	1.						
			2340	EN	22	50° 49.09	129° 13.10											
20	CS05	ROS	1114	BE	23	50° 55.92	129 00.02		65									
			1117	BO	23	50° 55.91	129 00.02											
			121	EN	23	50° 55.88	129° 00.08				31-36	6						
		NET	0139		24	50° 55.9	129° 00.1		59									
	Loop8	NOT	DONE											0-Subbongo - large				

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day 263

263.6372

.291668

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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
20.9	CS07	NET	03:32		25	51° 4.511 N	128° 44.128 W							
	↓	CTD	03:44	BE	26	51° 4.47	128° 44.12		61					
				BO	1					58				
			03:59	EN	1	51° 4.49	128° 44.16							
20.9	↓	USW	03:25		27	51° 4.524 N	128° 44.067 W		60					
	CS08	USW	0508		28	51° 8.47 N	128° 36.14 W							
	↓	ROS	0453	BE	29	51° 8.54 N	128° 36.05 W		139		37-45	9		
			0457	BO		51° 8.53 N	128° 36.07 W			124				
			0508	EN		51° 8.47 N	128° 36.14 W							
		NET	0525		30	51° 8.47 N	128° 36.14 W							
	↓	NET	0535		31	"	"							
20.9	LOOP9	USW	1507		32	51° 00.28 N	128° 25.15 W							
	LOOP10		local 1500		33									
20.9	LOOP11	USW	1600 (local 1)		34	51 30.56 N	130 17.26 W							
	LOOP12	USW	0306		35	51 38.53 N	130 46.67 W							
	LOOP13				36									
	LOOP14	USW	1058		37	52° 08.42	132° 34.200							
	LOOP15	USW	15:06		38	52° 23.80	133° 33.58							
	Loop 16	OWS	19:40		39	52 39.13	134 40.15							

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21	Loop 17	Loop	2300		40	52° 51.18	135° 30.00								
22	Loop 18	USW	0300		41	53° 04.07'	136° 23.64'								
22	Loop 19	USW	0757		42	53 19.805	137 34.766								
22	H00A	Neuston	1128		43	53° 30.02	138° 19°							15 minute tow	
22	H00A	ROS	1152	BE	44	53 29.99	138 20.04		2000+						
22	H00A	ROS	1231	BO		53 29.96	138 20.04			2004	46-68	23			
22	H00A	ROS	1329	EN		53 29.99	138 19.98								
		USW	1402		45	53 30.025	138 19.881								
		BOT	1442		46	53 30.1	138 19.9							10m GO-FLO	
		NET	15:25		47	53 29.94	138 20.01							0-150 bongo	
22	H00B	NET	17:45		48	53° 44.97'	138° 19.971							0-150 bongo	
		USW			49	53° 45.75	138° 19.04							Loop	
		ROS	18:07	BE	50	53 45.03	138 19.50		3247		69-74	6.			
			18:24	BO		53 45.47	138 19.40			2010					
				EN											
		BOT	19:19		51	53 45.01	138 19.97							GO FLO @ 10m	
22	H00C	CTD	2118		52	54 00.04	138 20.08		3230	200				PAR Cast	
		BOT	2135		53	54 00.01	138 20.03							Go flo @ 10m	

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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	
22	H00C	ROS	2153	BE	54	53°59.99	138°20.07		3233						
22			2223	BO	1	53°59.90	138°20.20								
22			2326	EN		53°59.84	138°20.43				2005	75-97	23		
23	H00C	UWS	0011		55	54°00.04	138°20.08								
23	H00C	NET	0038		56	54°00.0	138°20.1								
23	H00D	NET	01:45		57	54°10.01	138°20.05							0-150 m bongo	
23		ROS	02:18	BE	58	54°09.99	138°20.05		3170					0-150 bongo	
23			02:46	BO	58	54°10.01	138°20.03				2001	98-103	6		
23			03:16	EN	58	54°09.98	138°19.98								
23		LOOP	0235		59	54°10.00	138°20.05								
	↓	BOT	0330		60	54°09.95	138°20.10							2nd Loop taken @ end of Rosette cast	
23	H00E	BOT	04:35		61	54°20.03	138°19.85							10m GO-FLO	
		ROS	0450	BE	62	54°19.98	138°19.94		3171		104-126	23		10m GO-FLO	
			0521	BO		54°19.98	138°20.00			2010					
			0625	EN		54°20.00	138°20.01								
		LOOP	0625		63	54°20.00	138°20.01								
		NET			64	54°19.9	138°20.0								
		NET			65	54°19.9	138°20.0							0-150 m bongo	
23	H00F	NET			66	54°30.09	138°20.22		3100					neuston	
														Night BIONESS	

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23	400F	NET	11:10		67	54°30.09'	138°20.23							Ply to Plankton net
		BOT	12:10	BE	68	54°30.09'	138°20.23							Primary productivity
		BOT	14:40	EN	1									
		BOT	15:10	BE	69	54°30.08'	138°20.15'							- metal pumping
		BOT	~17:50	EN	1									-
		ROS	18:15	BE	70	54 30.03	138 20.05		3127		127-149	23		
			18:49	BO	1	54 29.98	138 20.03			2010				
			19:46	EN	1									
		USW			71									Loop
		NET	2005		72	54 29.9	138 20.0							0-150 bongo
		NET			73									by BIONESS - 250-0
		BOT	2300	BE	74	54 29.7	138 20.2							Go flos
	400G	ROS		BE	75									
				BO		STATION CANCELLED DUE TO WEATHER								
				EN										
24	LOOP 22	USW	0705		76	54°39.52'	138°25.3'							
24	LOOP 23	USW	2300??		77	54°53.78	138°28.53							0400 ship's time?
24	Loop 24	USW	1524		78	54 49.05	138 20.51							
24	Loop 25	USW	2050		79	54°36.018'	138°20.114'							

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24	H00G	ROS		BE	80									Grounded by
				BO										captain
				EN										
24	LOOP 26	USW	23:40		81	54 39.62	138 20.80		3182					
25	Loop 27	USW	03:03		82	54 42.75	138 12.07		3132					
25	Loop 28	USW	07:05		83	54° 59.58'	137° 57.66'		?					God, I love loops!
25	Loop 29	USW	11:00		84	55 12.41	137 47.46		3115					loops Taken
25	H00J	ROS	15:39	BE	85	55 15.11	137 34.99		2988		150-172	23		
			16:16	BO		55 14.16	137 45.47			2010				
				EN		55 13.79	137 46.04							loop #31 taken @ end of
		NET	18:00		86	55 15.2	137 45.0							0-150m bongo
		BOT	18:30		87	55 15.2	137 45.0							10m GO-FLO
25	Loop 30	USW	19:45		88	55° 06.3'	137° 53.37'							
25	H00H	ROS	22:22	BE	89	54 49.97	138 10.17		2932	2005				
			22:48	BO		54 49.78	138 10.51				173-178	6		
				EN										
26		NET	00:10		90	54 50.0	138 10.0							0-150m bongo
		BOT	00:40		90.5	54 49.97	138 09.99							10m GO-FLO
		CTD			91									PAR cast to 200m

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26	H00 H	CTD	0051	BE	91	54° 49.95	138° 09.92							Par cast
			0056	BO	1	54° 49.95	138° 09.92		2980					
			0059	EN	↓	54° 49.95	138° 09.91			200				
	Loop 32	USW	0302		92	54 35.07	138 18.51							
		DRF	0351		93	54 29.915	138 20.345							Crawford drifter #4925
	Loop 33	BWS	0730		94									
26	H00 L	NET	0900	BE	95	53 59.79	138 44.34		3320	2000				UMPS
			0929	Net 1		53 59.67	138 44.18				2000 - 1500			Open Net / 1 liter 2+4 come on
			0937	Net 2		53 59.62	138 43.84				1500 - 1000			2 no change
			0944	Net 3		53 59.78	138 43.90				1000 - 500			3
			0951	Net 4		53 59.54	138 43.80				500 - 0			4
26	H00 L	BOT	10:54	EN	96	54.00.112	138 44.56		100	2000				GoFlo bottles (metal)
		NET	11:11		97	54 0.14	138 44.26							Phyto net
26	Loop 34	USW	1210		98	54° 00.24	138° 43.38		3318					
26	H00 L	BOT	14:45	BE	99	54° 00.03	138° 45.07		3319	40				Metals - pump + deep
			1	EN	1	1	1							1 800 ± 970m
		NET	1943		100	54 0.04	138 45.34			250				day BIONESS 250-0m
		NET	2155		101					250				repeat ↑
		NET	2320		"103"	54 00.0	138 44.9							0-150 bongos (#2 out of sequence to maintain #102 for CTD/R)

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26	HØØL	ROS	2331	BE	102	54 00.00	138 44.95		3319					
				BO						2000	179 - 201	23		
27			0124	EN		54 00.03	138 44.97							
27	HØØL	BOT	0145	BE	103	54 00.00	138 44.87		3	300				Metal - Goflos
			0316	EN	1									
27	LOOP35	USW	0240		104	54 00.03	138 44.75							
27	HØØL	VMP5	0355	BE	105	53° 59.91'	138° 44.99'		DEEP					
			0440	BO		53° 59.96	138° 45.05'							
			0515	EN		54 0.01	138 45.20							
		NET			106					250				Night Bioness
		BOT	0715		107					800				Metal Goflos
		DRF	0721		108	54 0.02	138 45.07							DRIFTER # 7363
27	Room	ROS	0847	BE	109	54 10.05	138 37.62		3207					
			0915	BO		54° 10.08'	138° 37.76'			2000	202-207	6		
			0943	EN		54° 10.06	138° 37.70							
27	HØØL	NET	0959	BE	110	54 10.08	138 37.61			150				Bongo
27	Loop 36	USW	1057		111	54° 08.00	138° 37.60		3812					
		BOT	1100	BE	112	54° 08	138° 37			10m				Metal Goflo

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IOS Plankton Productivity



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27	LOOP 37	UWS	15:00		113	53° 31.17	138° 38.83		3413						
27	HREF	CTD	2120	BE	114	52 30.04	138 45.08		3613	200	—				PAR cast
27	HREF	ROS	2135	BE	115	52 30.13	138 45.25		3613						
1	1	1	2159	BO	1	52 30.26	138 45.25			2005	208-230	23			
			2254	EN		52' 30.26	138° 45.58								
27	HREF	BOT	2310	BE	116	52° 30.00	138° 44.96		3612	1000					bottles & pumping
28	LOOP 38	UWS	0001			52 30.05	138 45.02		3612						Loop Taken
28	LOOP 39	UWS	0301		117	52 30.08	138 45.02								Loop
28	HREF	NET	0956		118	52 30.31	138 44.33			250					unlabeled BLON 0-250
28	HREF	NET	1110		119	52.30.37	138' 44.96		3612	160					Dongo 150-0
28	LOOP 40	UWS	1136		120	52 30.51	138 44.90		3613						Loop TAKEN
28	HREF	BOT	1500	BE	121	52 29.97	138 44.98		3613	600					T. Metal - Goflos
28	HREF	BOT	1800	EN	1	52 30.13	138 44.79								
28	HREF	NET	2010		122	52 30.08	138 44.84								
28	HREF	NET	2143	BE	123	52 30.24	138 44.78		3612	2000					Day Bioness
1	1	1	2236	BO	1	52° 30.85'	138° 43.65'								unlabeled
															last net @ 100m
28	HREF	NET	2332		124	52 30.00	138 44.93								Dongo to 150
29	LOOP 41	UWS	0123		125	52 30.25	138 45.45								Loop TAKEN

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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
29	Loop 42	USW	2159		126	52 25.44	138 34.81							
29	Loop 43	USW	10:58		127	51 59.34	137 30.85							Loop TAKEN
29	Loop 44	USW	15:04		128	51 45.05	137 8.49							
29	Loop 45	USW	23:00		129	51 26.06	137 44.49							Big Swell, Debubler can't keep up Loop TAKEN to Thermosalinog graph
30	Loop 46	VWS	03:00		130	51 28.54	137 37.81							
30	Loop 47	UWS	08:35		131	51 16.65	136 09.27							
30	Loop 48	USW	11:03		132	51 09.15	135 35.51							
30	HOIC	ROS	1617	BE	133	51 00.02	135 19.92							Rosette to 2000m
			1655	BO		50 59.96	135 19.94			2000	231-253	23		23 bottles
			1822	EN		51 00.18	135 17.52							Loops taken #49
		BOT	2100		134	51 00.05	135 20.04							Multiple 60-FLOS
		NET	2116		135	51 00.04	135 20.13		3577	250				BIONESS 250-0m
		NET	2245		136	50 59.99	135 20.05							VMPs 2000-0
		NET			139									Bongo 0-150
30	Loop 49				137	undocumented								
30	Loop 50		2310		138	51 00.05	135 20.05							Loop TAKEN
		NET			139	51 00.12	135 20.16							0-150 bongo
01	HOIC	DRIFTER	0030		140	51 00.31	135 20.45							Drifter # 7069
01	HOIB	NET	0349		141	50 45.0	134 45.0							Bongo 0-150m

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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