

DAILY LOG BOOK

MISSION
NUMBER

2005-11

DATE:

From: 23 MAY

to: 31 MAY 2005

VESSEL:

JP Tully

PROJECT:

LA PEROUSE

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

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

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer: FS03 Shuttle Case
 Data acquisition program: Seasave Win32 Version 5.32
 CTD deck unit make: Seabird model: 211plus serial number: 0113 0508

Primary CTD

Make: Seabird model: 911plus serial number: 0443

Primary temperature serial number: 4484 19-Mar-05

Primary conductivity serial number: 3038 03-Mar-05

Secondary temperature serial number: 2023 07-Apr-05

Secondary conductivity serial number: 2339 07-Apr-05

Transmissometer: Wetlabs Model: CSTAR s/n: 723 DR

Fluorometer: Model Seapoint Cable gain: 10X s/n: 2356 P S or NO pump?

Oxygen sensor: Sea-bird Model: SBE 43 s/n: 0047 P S or NO pump?

PAR sensor: Model: _____ s/n: _____

Other sensors: Pressure Sensor 10000 psi s/n 63507 P S or NO pump?

Other sensors: Cald 25 Oct-04 offset: 3.0457 ds/n: _____ P S or NO pump?

Other sensors: _____ s/n: _____ P S or NO pump?

Other sensors: _____ s/n: _____ P S or NO pump?

Secondary CTD

Make: Seabird model: 911 plus serial number: 0550

Primary temperature serial number: 2106 18-Nov-04

Primary conductivity serial number: 1763 19-Nov-04

Secondary temperature serial number: 2449 16-Oct-04

Secondary conductivity serial number: 1729 03-Feb-05

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

CTD calibration bottle location (height above CTD in metres): 1.5 m

Rosette Setup:
 Number of bottles: 24
 Manufacturer: General Oceanics (Ocean Test Equip., General Oceanics, IOS) (Rose the 2)
 Volume of bottles (litres): 10

24

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Volume of bottles (litres): 10

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Winches:

1. Make:	Hawbolt	model:	serial #:	17026	used for:	CTD
2. Make:	Hawbolt	model:	serial #:	17026	used for:	CTD back-up / Bioness
3. Make:		model:	serial #:		used for:	
4. Make:		model:	serial #:		used for:	
5. Make:		model:	serial #:		used for:	
6. Make:		model:	serial #:		used for:	
7. Make:		model:	serial #:		used for:	

Comments:

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

Thermosalinograph System:

Program: Seasave Version: 5.3.2
Sampling interval (seconds): 30
Fluorometer sensor serial number: WS35-713P
Comments:

Comments:

ADCP Setup:

Computer time zone: _____

Sampling interval (sec): _____

Bin Length: (2^x): _____

Pulse Length: _____

Buffer (bytes): _____

Gyro Offset: _____

Comments: _____

User Exits: Name: _____ Exit points: _____

Name: _____ Exit points: _____

Name: _____ Exit points: _____

Work File: _____

Comments:

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MAY				Year 2005			Ship JPTully			Cruise ID 2005-11					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
25	SIO 1	0200	BE	ROS		1	48 35.97	123 29.81	223						CTD NOTES =>
		0207	BO				48 35.98	123 29.84		210	1-12	12	DA MG AK		
		0222	EN				48 36.00	123 29.81							
25	UW	0353	UW	LOOP 1			48 42.191	123 21.128	51						Loop under way
25	UW	0704	UW	LOOP 2			48 16.127	123 38.226							Loop 2 " "
25	UW	1056	UW	LOOP 3			48 31.19	124 46.46	203				DA MG AK		Loop 3 UNDER WAY
25	UW	1505	UW	LOOP 4			48 56.48	125 56.39	105				DM JL		Loop 4 " "
25	UW	1910	UW	LOOP 5			49 28.91	127 01.19	126				SR DY		" 5 " "
25	UW	2300	UW	LOOP 6			49 59.381	127 57.544	1092				MG AK		Loop 6 " " CTD NOTES
26	UW	0300	UW	LOOP 7			50 10.11	128 13.24	DEEP		50 38.6 128 51.4		check pos'n - DT		Loop 7 UW
26	UW	0700	UW	LOOP 8			51 13.600	129 41.809	Deep				DY SR LM		Pos'n' suspect
26	UW	1100	UW	LOOP 9			51 52.16	130 35.62	Deep				DA MG AK		Loop 9 " " Thermosal " " data interruption
26	UW	1500	UW	LOOP 10			51 54.23	130 0.54	150m				Acoustics Line		Underway Loop
26	UW	1900		loop 11			51 35.272	129 39.894	125m				DY SR LM		
26	BIONO1	2001	BE	Net		2	51 35.96	129 44.04	150						BIONESE
26	1	2048	EN	1			51 36.30	129 47.48		145					
	G102		BE	ROS		3					13-18	6			CTD/ROS
			BO												
			EN												

Cast type:

BOT = bottle cast, no CTD
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USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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2005/5/25 2:00
CTD NOTES:

Primary acquisition computer FSO3 shuttle case failed initial test. NMEA interface initialization failure. Switched to back-up FSO1 for test cast.

2005/5/25 23:00

Primary acquisition tests OK after reinstalling Seasave.

2005/05/26 11:00

Thermosalinograph time/ NMEA not updating. Will reboot / From 0400 (approx) to 1100 May 26 (UTC) thermosal data was interrupted. Some problems were experienced related to setting up real-time data output to the ship's LAN. Data was set to log on 2005-08-0002.hex; mistaken by myself. By the small size of the file I don't think it contains data. I believe this file didn't exist before and no 2005-08 data was overwritten. Main file 2005-08, 2005-08-0001.hex has been backed-up.

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							Latitude	Longitude							
26	UW	23:00	UN	LOOP 12			51 35.725	129 55.820	231m				DA MG AK KY		Loop 12 under way
27	G102	00:20	BE	ROS		3	51 30.21	129 37 59	146m		13-21	9		-	
		0025	BO				51 30.10	129 37 60		131					
		0037	EN				51 29.91	129 37 15							
27	G102	0058		Net		4	51 30.0	129 37.67	146	144					
27	BION 2	1242	BE	NET		5	51 15.96	129 28.52	240	232					BONGO
		1319	EN				51 16.36	129 27.73							BIONESS 2
27	CS10	0757	BE	ROS		6	51 16.460	128 20.018	82			-		✓	CTD only
		0802	BO				51 16.453	128 19.991		75					
		0803	EN				51 16.458	128 19.974							
27	CS10	0815	BO	NET		7	51 16.473	128 19.920	81	70					Bongo
		0820	EN				51 16.438	128 19.907							
27	CS09	0918	BO	NET		8	51 12.457	128 27.911	196	180				✓	Bongo
		0921	EN				51 12.452	128 27.910							
27	CS09	0934	BE	ROS		9	51 12.464	128 27.926	196						
		0939	BO				51 12.457	128 27.911		190	22-32	11			
		0955	EN				51 12.428	128 27.958							
										232					

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							Latitude	Longitude							
27	CS08	10:58	BE	CTD ROS		10	51 08 39	128 35 91	145			Ø	KY, AC- MC, DA	✓	
		11:01	BO				51 08 39	128 35 91		131					
		11:02	EN				51 08 39	128 35 92							
27	CS08	11:14		NET		11	51 08 39	128 35 92		130					
27	UN	11:45	UN	Loop 13			51 07 134	128 38 74	115m						Loop 13 underway
27	CS07	12:20	BE	NET		12	51 04.46	128 31.08	65	50					Bongo
27	CS07	12:32	BE	NET		13	51 04.46	128 31.08	65	50					Bongo
27	CS07	12:45	BE	NET		14	51 04.46	128 44.08	65	20					Bongo
27	CS07	13:01	BE	NET		15	51 04.45	128 44.08	65	50					King Net
27	CS07	13:17	BE	ROS		16	51 04.40	128 44.10	65						botle 7 no trip
		13:19	BO				51 04.36	128 44 10		56	33-42	11			
		13:27	EN				51 04 34	128 44 09							
27	CS06	14:14	BE	CTD ROS		17	50 59 85	128 50 26	65			Ø	KY AC MC DA	✓	
		14:16	BO				50 59 81	128 50 33		55					
		14:17	EN				50 59 78	128 50 37							
27	CS06	14:20	BE	Net		18	50 59 63	128 50 33	68	60					VNH
27	CS05	15:35	BE	Net		19	50 55 95	128 59 97	63						VNH
27	CS05	15:45	BE	ROS		20	50 55 96	128 59 96	62					✓	
		15:47	BO				50 55 94	128 59 95		55	43-48	6			

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							Latitude	Longitude							
27	CS05	1555	EN	ROS		20	50 55.98	128 59.91			43-48	6			
	CS04	1719	BE	ROS		21	50 49.19	129 13.02	93						
	CS04	1721	BO	ROS			50 49.19	129 13.02		86		0			
	CS04	1725	EN				50 49.19	129 13.02							
27	CS04	1738	BE	NET		22	50 49.23	129 13.04	93	85					
27	CS03	1833	BE	NET		23	50 45.66	129 19.98	232	220					
27	CS03	1907	BE	ROS		24	50 45.571	129 20.125	240		49-59	11			Bottle 11 No Sample
	CS03	1913	BO			1	50 45.571	129 20.328		225					
	CS03	1931	EN				50 45.494	129 20.460							
27	CS02	2034	BE	ROS		25	50 41.393	129 28.312	1900			0			
		2104	BO				50 41.370	129 28.313		1912					
		2124	EN				50 41.150	129 28.132							
27	CS02		BO	NET		26	50 40.9	129 27.9	~1900	250					
		2200	EN				50 40.672	129 27.606							
27	CS01	2320	BO	NET		27	50 34.90	129 41.18	2112	250					Bongo (250)
27	CS01	2356	BO	NET		28	50 34.64	129 41.05	2116	50					Bongo (50)
28	CS01	0010	BO	NET		29			2116	50					Bongo (50)
28	CS01	0023	BO	NET		30	50 34.53	129 41.08	2116	50					Ring Net (50)
			EN												

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							Latitude	Longitude							
28	CSO1	0041	BE	ROS		31	50 34.83	129 41.26	2110				KY ME AG DA DM	✓	
		0114	BO				50 35.12	129 41.09		2000	60-83	24			
		2005	EN				50 35.47	129 40.87							
28	LBP7	0822	BE	ROS		32	49 52.349	128 11.296	2000+						
		0839	BO				49 52.260	128 11.340		1005	84-101	18			
		0915	EN				49 52.230	128 11.316							
28	LBP7	0935	BO	NET		33	49 52.21	128 11.38	2000+	250					
			EN												
28	LBP6	1048	BE	ROS		34	49 56.090	128 5.404	?			0			
		1108	BO				49 56.06	128 05.400		830					
		1129	EN				49 56.06	128 05.44							
28	LBP5	1227	BE	ROS		35	49 59.99	128 00.05	?						
		1251	BO				49 59.99	127 59.96		1000	102-119	18	KY AG MG DA	✓	Some blockage →
		1330	EN				49 59.98	127 59.91							
28	LBP5		BO	NET		36	49 59.90	128 00.21		250					
28	LBP4	1421	BE	ROS		37	50 01.33	127 58.26	1000+						Temp diff →
		1434	BO				50 01.35	127 58.31		1000		0	KY AG MG DA	✓	
		1448	EN				50 01.36	127 58.30							

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Suspect some blockage in the secondary side as when syringes were applied on deck there was some initial resistance to the water. Cleared out apparently.

Temp. difference: A 0.003 temperature sensor drift appears to be happened. See temp?

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							Latitude	Longitude							
28	LBP3	1525	BE	ROS		38	50 03 24	127 55 58	170		120-129	10		✓	
			BO				50 03 29	127 55 58		163					
			EN												
28	LBP3	1600	BE	NET		39	50 03.2	127 55 87	170	160					
28	LBP2	1637	BE	Net		40	50° 04.01	127° 54.14	98	90					
28	LBP2	1652	BE	ROS		41	50 03 97	127 54 09	97					✓	
	LBP2	1654	BO				50 03 96	127 54 12		93		0			
	LBP2	1656	EN				50 03 98	127 54 14							
28	LGO1	2304	BE	ROS		42	49 20.42	126 35.35	54		130-135	6		✓	
		2308	BO				49 20.70	126 35 47		45					
		2315	EN				49 20.82	126 35.60							
28	LGO2	2349	BE	ROS		43	49 18.76	126 38.19	98					✓	Temp diff looks ok
		2354	BO				49 18.79	126 38 23			136-142	7			
29		0001	EN				49 18 83	126 38 34							
29	LGO2		BO	NET		44			120						
29	LGO3	0142	BE	ROS		45	49 15.66	126 43.84	120			0			
		0146	BO				49 15 10	126 43 89		110					
		0149	EN				49 15 12	126 43 91							

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							Latitude	Longitude							
29	LG04	0236	BE	ROS		46	49 11.29	126 49 39	145						
		0240	BO				49 11 28	126 49 39		135	143-151	9	KY AG MC DA		
		0251	EN				49 11 25	126 49 32							
	LG04	0307	BO	NET		47	49 11.17	126 49.22							
	LG5	0356	BE	ROS		48	49 0733	126 55 30	262						
		0403	BO				49 07 32	126 55 37		274		0			
		0407	EN				49 07 32	126 55 39							
	LG06	0451	BE	ROS		49	49 0346	127 12 17	815						
		0507	BO				49 0353	127 12 36		977		0			
		0520	EN				49 0357	127 12 96							
	LG07	0610	BE	ROS		50	48 59 25	127 07 21	1050						
		0630	BO				48 59 25	127 07 17		1028	152-169	18			
		0712	EN				48 59.346	127 7 105							
29	LG07	0728	BO	NET		51	48 59.37	127 07.00	1050	250					
		0755	EN				48 59.2	127 7.5							
29	LG08	0849	BE	ROS		52	48 55.342	127 13.349	2180						
1	1	0902	BO	1		1	48 55.340	127 13.378				0			
			EN												

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							Latitude	Longitude							
29	LG09	1013	BE	ROS		53	48 51.234	127 19.457	2650						
		1028	BO				48 51.254	127 19.393		1002	170-187	18		✓	→ Nisk 17 did not flip
		1105	EN				48 51.24	127 19.41							
29	LG09	1112	BO	NET		54	48 51.24	127 19.41	2050	250					Bongo
		1141	BO	NET		55	48	127		50					BONGO
	↓	1155	BO	NET		56		↓		20					BONGO
	↓	1218	BO	NET		57	↓	↓		50					RING
29	LC12	1700	BO	NET		58	48 14.97	126 40.01		250					BONGO
		1711	BE	ROS		59	48 14.97	126 39.94	2510						
	↓	1725	BO				48 15.01	126 39.99		1005		0			
	↓	1740	EN				48 15.01	126 39.97							
29	LC11	1857	BE	ROS		60	48 18.852	126 26.572	1453						
		1915	BO				48 18.900	126 26.855		1001	188-205	18			
		1953	EN				48 18.286	126 27.653							
29	LC09	2127	BE	ROS		61	48 25.942	126 13.697	600						
		2140	BO				48 26.114	126 13.757		600	206-222	17			Bottle 15 empty
		2207	EN				48 26.369	126 13.802							
29	LC09	2232	BO	NET		62	48 26.09	126 13.53	600	250					Bongo
			EN												
Cast type: <u>2005</u> USW = sea water loop bottle firing method: Time Code															

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NISK 17 has black power spring. These springs are approx. 40% less powerful than the grey ones. Switched for a grey spring.

NISK 15 - Black spring, adjusted bottle height

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							Latitude	Longitude							
29	LC09	2247		Net		63	48 26.09	126 13.53	600	50			AS DA MG KY		Bongo
		2258		Net		64	↓	↓	600	20					Bongo
		2310		Net		65	↓	↓	600	50					Ring
30	A2	0012		NET		66	48 22.75	126 03.81	400	250					Bongo
30	A2	0032	BE	ROS		67	48 22.69	126 03.77	354				AS KY MG DA		
		0042	BO				48 22.71	126 03 81		345	—	0			Trans decline @ 300 mixed below to bot
		0047	EN				48 22.73	126 03 85							replace B side net on Bongo
30	LC08	0150	BE	ROS		68	48 29.42	126 07 00	199				MG DA AS KY		
		0155	BO				48 29 41	126 07 02		189	—	0		?	
		0157	EN				48 29 40	126 07 02							
30	LC08	0217	BO	NET		69	48 29 55	126 06 85	199	185					
	LC07	0307	BE	ROS		70	48 32 96	126 00 31	129		223-230	8			
		0309	BO				48 32 98	126 00 26		123					
		0319	EN				48 33 01	126 00 15							
	LC06	0405	BE	ROS		71	48 36 42	125 53 90	93			0			
		0407	BO				48 36 43	125 53 84		85					
		0409	EN				48 36 42	125 53 85							
	LC06	0421	BO	NET		72	48 36 46	125 53 68	93	80					
	LC05	0511	BO	NET		73	48 39 90	125 47 26	65	55					

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
30	LC05	0524	BE	ROS		74	48 39.86	125 47.24	65			0		✓	
		0526	BO				48 39.83	125 47.21		55					
		0527	EN				48 39.82	125 47.22							
30	LC04	0618	BE	ROS		75	48 43.38	125 40.80	170			10			Bottom contact?
		0623	BO				48 43.37	125 40.76		153					
		0637	EN				48 43.31	125 40.79							
			BE	NET		76									ring net / bongo
			BE	NET		77									bongo
			BE	NET		78	48 43.213	125 40.925	162	150					bongo OR
			BE	NET		79									bongo Wg
30	LC02	0906	BE	ROS		80	48 48.708	125 31.002	110						
1	1	0910	BO	1		1	48 48.719	125 30.979		100	241-247	7			
		0917	EN	1		1	48 48.715	125 30.938							
30	LC01	0953	BE	ROS		81	48 50.496	125 27.745	96						NMEA time slow
1	1	0955	BO	1		1	48 50.518	125 27.738							by 13 min
		0957	EN	1		1	48 50.550	125 27.724							(used real)
30	B8	1202	BE	ROS		82	48 34.55	125 29.91	112				KY MC-DM DA	✓	
		1205	BO				48 34.53	125 29.88		100		0			
		1208	EN				48 34.51	125 29.85							

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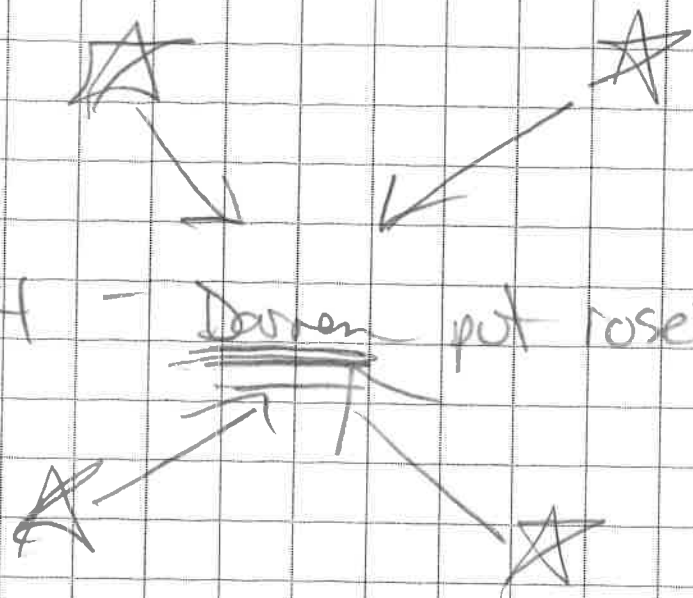
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LCO4 - Duron put rosette on bottom - Rosette 155m

LCO1 - noticed time on NMEA display significantly wrong (posn not exact either)
- used navigation computer time + display

DAILY LOG

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Month MAY				Year 2005				Ship JP Tully				Cruise ID 2005-11			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
30	B8	1229	BO	NET		83	48 34.55	125 29.90	110	100					BONGO
	B7	1328	BO	NET		84	48 32.03	125 35.54	82	75					BONGO
30	B7	1341	BE	ROS		85	48 32.08	125 35.42	80			Ø			
		1343	BO				48 32.08	125 35.40		70	—		KV MC-DA DM	✓	
		1345	EN				48 32.08	125 35.34							
30	C30(BA3)	1529	BE	ROS		86	48 23.37	125 20.71	124		248-255	8		✓	
		1531	BO				48 23.35	125 20.77		110					
		1541	EN				48 23.34	125 20.72							
		1600	BO	NET		87	48 23.34	125 20.72	124	110					BONGO - Nets torn on off frame
		1640	BO	NET		88	48 23.43	125 20.89	120	110					BONGO - 2nd try
30	C1	1747	BO	NET		89	48 28.87	125 15.41	150	150					Bongo - touched bottom
		1802	BE	ROS		90	48 28.85	125 15.50	150	150		Ø			
		1805	BO				48 28.84	125 15.49		140					
		1808	EN				48 28.86	125 15.52							
		1821	BO	NET		91	48 28.85	125 15.55	152	140					Bongo
30	C2	1924	BO	NET		92	48 25.999	125 08.017	140	125					"
30	C2	1942	BE	ROS		93	48 25.362	125 8.012	149						
		1947	BO				48 25.322	125 8.132			256-262	7			no sample bottle #7
		1956	EN				25.25	8.252							

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C3

~~★~~ Nets on Bongo ^{ripped} ~~same~~ off frame... attacked by some unknown sea ~~★~~
creature

CADBOROSAUREUS STRIKES AGAIN

DAILY LOG

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[illegible]

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