DAILY LOG

CRUISE NUMBER

2000 - 011

CHECKED JUN 0 2 2000

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE	May 20 - 26, 2000
VESSEL	C. C. G. S. VECTOR
PROJECT	Strait of Georgia Euphausiid Acoustics COPRA OCP Inlets Zooplankton NIS Inlets Monitoring

Captain: Scott Doan **First Officer:** _____

Second Officer: _____ **Third Officer:** _____

Mission Participants / Agencies: FOS, UBC

Scientific Personnel: **Party Chief:** Steve Romaine

Name	Watch	Cabin	Name	Watch	Cabin
Cindy Wright					
Doug Moore					
Tarun Nayar					

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: No

Data acquisition program: _____

CTD deck unit make: ~~SBE~~ _____ model: ~~19~~ _____ serial number: ~~1294~~ _____

Primary CTD

Make: SBE model: 19 serial number: 1294

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: _____

Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

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: _____

Winches:

1. Swann model: _____ serial #: B07 use: BIONESS
2. Swann model: _____ serial #: B06 use: SLED
3. Swann model: Veetor serial #: Worn use: CTD, Net, Grab
4. Swann model: _____ serial #: _____ use: _____
5. Swann model: _____ serial #: _____ use: _____
6. Swann model: _____ serial #: _____ use: _____
7. Swann model: _____ serial #: _____ use: _____

Comments: _____

Salinometer: make: No model: _____ serial number: _____

Comments: _____

Surface Temperature / Salinity Data Logging System:

Program: No

Sampling interval (seconds): _____

Sensor serial number: _____

Comments: _____

ADCP Setup:

Program version: No Number of depth bins: _____

Time zone: _____ Bin length (2X): _____

Sampling interval (seconds): _____ Pulse length: _____

Blank beyond transmit: _____ Pings per ensemble: _____

% pings good threshold: _____

Comments: _____

Comments: _____

NETS:

Bongo 0.56 dia TSK 3001

Norpac Net - not used

Ponar Grab 9"

Sled Net

O/c Net = SOR Net 0.50 dia

Neuston Net

BIONESS. Net

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 2000 | MONTH MAY | SHIP VECTOR | CRUISE DESOLATION SOUND 011 | PAGE 1 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	Desolat	CTD	15:13	BE	01	50 04 81	124 49 056		518			—		Desolation Sound
			15:22	BO		50 04 80	124 49 09			510				deep basin
			15:32	EN		50 04 812	124 49 069							
21	Desolat	NET		BE	02	50 04 684	124 49 433		520					
			16:24	BO		50 04 786	124 49 601			570				
21				EN		50 04 823	124 49 721							
	Desolat	NET		BE	03	5004 935	12448937		520					
			17:01	BO		50 04 898	12448992			250				
				EN		50 04 876	124 49 021							
21	Pendrell	CTD	18:13	BE	04	50°13 132	124°44 612		386					Pendrell
				BO		50 13 114	124 44 581			380				
			18:37	EN		50 13 111	124 41 579							
21	Pendrell	NET	18:43	BE	05	50°13 172	124°44 660		402					
			19:00	BO		50 13 136	124 44 608			390				
			19:09	EN		50 13 116	124 44 569		388					
21	Howfray	CTD	20:28	BE	06	50 14 779	124 37 934		740					Howfray
			20:43	BO		50 14 664	124 37 963			600				
			20:53	EN		50° 14 589	124° 37 938							

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

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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
21	Hornfray	NET	20:55	BE	07	50° 14 574	124° 37.952		724					Hornfray
			21:17	BO		50 14 382	124 37 909			715				
			21:30	EN		50 14 368	124 37 909							
21	Hornfray	NET	21:40	BE	08	50 14 746	124 37 890		736					
			2148	BO		50 14 823	124 37 962			250				
			21:54	EN		50 14 823	124 37 962							
21	Hornfray	GRAB			09	50° 14 962	124° 38 923							didn't work
22	Brem B	GRAB	24 05		10	50° 25 911	124° 39 822		103					Toba (Brem Bay)
22	Brem B	CTD	24 37	DE	11	50° 24.718	124° 38.683		482					TOBA (BREM BAY)
			24:49	BO		50° 24.631	124° 38.672			470				
			24.55	EN		551	723							
22	Brem B	NET	01:00	BE	12	50° 24. 551	124° 38. 723		484					
			01:11	BO		50° 24. 482	124° 38. 884			470				
			01:18	EN		50 24 458	124 38 005							
22	Pryce	CTD	02:20	BE	13	50 17 805	124 50 829		510					PRYCE CHANNEL
			02:31	BO		50 17 827	124 51 026			500				
			02:41	EN		50 17 833	124 51 159							

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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
22	Pryce ch	NET	02:44	BE	14	50 17 833	124° 51 159		510					PRYCE CHANNEL
			02:57	BO		50° 17. 852	124° 51.337			500				
			03:07	EN		50° 17. 852	124° 51.337							
22	Pryce ch	NET	03:21	BE	15	50° 17. 7915	124° 50. 757		510					
			03:29	BO		50 17 811	124 50 854			250				
			03:40	EN		50 17 824	124 50 849							
22	Pryce ch	NET	05:35	BE	16	50 17 911	124 51 141		surface	tow				Neuston
			06:00	EN		50 18 49	124 52 74		(17 min,	3 knts)				
22	Bute In	NET	15:04	BE	17	50° 32 165	124° 58.008		surface	tow				BUTE
			15:22	EN		50° 32 840	124° 57,598		18 min					
22	Bute In	CTD	15:35	BE	18	50° 32.445	124° 57,997		650		A1			Bute - repeat of
			15:41	BO		50° 32.408	124° 57.886			250				2000-04 stn here
			15:47	EN		50° 32.370	124° 57.802							
22	Bute In	NET	15:51	BE	19	50° 32. 353	124° 57.739		650					BUTE
			15:59	BO		50° 32. 340	124° 57. 620			250				
			16:07	EN		50° 32 340	124° 57. 600							

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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
22	Stuart I	NET	17:19	BE	20	50 23 357	125 04 410		653					Boys - deep
			17:40	BO		50 23 528	125 04 418			645				off Stuart Island
			17:57	EN		50 23663	125 04 425							
22	Stuart I	NET	18:01	BE	21	50 23 673	125 04 441							
			18:10	BO		5023 713	125 04 471		650					
			18:14	EN		50 23 741	125 04 489			250				
22	Stuart I	CTD	18:24	BE	22	50° 23. 775	125° 04. 499				A2			
			18 42	BO		50 23. 869	125 04 589		650	645				
			18:59	EN		50 23. 869	125 04. 589							
22	Francis	GRAB	2003	BO	23	50 20.668	125 02.025		95	95				Grab - Francis Bay
22	Ramsay	CTD	20:58	BE	24	50 24.171	124 58.180		413		A3			
			21:09	BO		50 24 234	124 58.306			400				
			21:15	EN		5024 339	124 58 301							
22	Ramsay	NET	21:20	BE	25	50 24 239	124 58 188		415					Ramsay Arm
			21:28	BO		50 24 180	124 58 166			405				
			21:39	EN		50 24 159	124 58 126							
22	Redonda	Grab	23:00	BO	26	50 15 851	124 57 749		95	95				Redonda Bay

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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
22	Sth Ch	CTD	23:41	BE	27	50 11 543	124 59 725		520		A4			Sth Channel
			23:51	BO		50 11 435	124 59 579			520				
			00:00	EN		50 11 504	124 59 585							
23	Sth Ch	NET	00:06	BE	28	50 11 548	124 59 746		510					Sth Channel
			00:18	BO		50 11 575	124 59 846			500				
			00:30	EN		50 11 669	124 59 931							
23	CPF2	NET	06:04	BE	29	49 27 887	124 30 429		357					COPRA 50-0
			06:06	BO		49 27 898	124 30 436			50				
			06:08	EN		49 27 898	124 30 460							
23	CPF2	NET	06:12	BE	30	49 27 885	124 30 547		353					COPRA 250-0
			06:20	BO		49 27 891	124 30 619			250				
			06:24	EN		49 27 901	124 30 753							
23	CPF2	CTD	06:32	BE	31	49 27 871	124 30 852		348		A6			COPRA 250-0
			06:38	BO		49 27 890	124 30 899			250				
			06:43	EN		49 27 930	124 30 958							
24	Pender	NET	05:41	BE	32	48 49 604	123 19 503							Newton (Pender)
			05:59	EN		48 49 474	123 19 341							18min at surf.

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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
24	Mayne	NET	6:31	BE	33	48 49.655	123 19 498							Newston (Mayne)
			6:47	EN		48 49.997	123 20.595							16 min
2A	Iron Bay	CTD	15:08	BE	34	49 27 270	122 52 470		84					IRON BAY (D1)
			15:13	BO		49 27 280	122 52 448			80				
			15:18	EN		49 27 279	122 52 432							
2A	Iron Bay	GRAB	15:19	BE	35	49 27 276	122 52 438		84	84				IRON BAY - GRAB
2A	Johnson	CTD	15:48	BE	36	49 25039	122 52 246		212					Johnson (D2)
			15:54	BO		49 25 013	122 52 230			205				
			16:00	EN		49 25 002	122 52 194							
2A	Buntzen	CTD	16:24	BE	37	49 23 017	122 52 414		221					BUNTZEN BAY (D3)
			16:31	BO		49 22 928	122 52 374			215				
			15:35	EN		49 22 874	122 52 355							
2A	Buntzen	GRAB	16:38	BE	38	49 22 842	122 52 346		215	215				BUNTZEN
2A	Buntzen	NET	16:56	BE	39	49 23 014	122 52 450		221					
			17:07	BO		49 22 945	122 52 423			215				
			17:13	EN		49 22 945	122 52 423							

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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
24	TWNTS	CTD	17:31	BE	40	49 21 125	122 53 905		163					Twin Isl. (04)
			17:35	BO		49 21 114	122 53 943			160				
			17:40	EN		49 21 089	122 53 986							
24	Whiskey	CTD	18:03	BE	41	49 19 304	122 55 947		82					Whiskey Cove (05)
			18:07	BO		49 19 315	122 55 944			75				
			18:09	EN		49 19 318	122 55 946							
24	Whiskey	SLED	18:19	BE	42	49 19 349	122 55 863		85-65					Whiskey Cove
			18:44	EN		49 19 964	122 55 406							200m of line, 18:28-18:32 bottom
24	Carraholly	CTD	20:04	BE	43	49 17 506	122 54 808		24					Carraholly (06)
			20:06	BO						20				
			20:07	EN		49 17 502	122 54 806							
24	Carraholly	GRAB	20:08		44	49 17 496	122 54 805		26	26				
24	Roche Pt	CTD	20:40	BE	45	49 17 759	122 57 336		35					Roche Pt. (07)
			20:42	EN		49 17 755	122 57 409			30				
24	Roche pt	NET	20:45	BE	46	49 17 754	122 57 477		28					Scor oblique NH.
			20:48	EN		49 17 768	122 57 603			25				3 min/25m tow; 1.5 kts
24	Neptune	NET	21:21	BE	47	49 17 725	123 03 552		31					NEPTUNE Bank
			21:24	EN		49 17 734	123 03 662			26				Scor ONH, 3min ONH

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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
24	Neptune	CTD	21:30	BE	48	49 17 730	123 03440		35		D8			Neptune Bank
			21:33	EN		49 17 729	123 03 424			30				
24	Lonsdale	CTD	21:48	BE	49	49 18 301	123 04 908		29		D9			Lonsdale Quay
			21:52	EN		49 18 304	123 04 930			25				
24	Lonsdale	Grab	21:55	BE	50	49 18 296	123 04 926		30	30				
24	Lonsdale	NET	22:03	BE	51	49 18 307	123 04 995		30					Scor ONH
			22:06	EN		49 18 312	123 05 037			25				1 min 50s, 1.5 kts
24	Basin	NET	22:20	BE	52	49 17 823	123 05 676		61		No CTD D8			Basin, Scor ONH
			22:24	EN		49 17 852	123 05 744			58				1 min 50s 1.5 kts
24	Basin	CTD	22:28	BE	53	49 17 824	123 05 606		61		Data D10		**	Pump not turned on — DISCARD CAST
				EN						58				
24	Basin	CTD	2235	BE	54	49 17.810	123 05.669		62	58				D10
			2237	EN		49 17.793	123 05.698							
24	VTCC	CTD	2245	BE	55	49 17.428	123 06.332		17					VTCC D11
			2246	EN		49 17.417	123 06.347			15				
24	VTCC	Grab	2248	BE	56	49 17.412	123 06.354		17	17				VTCC
24	VTCC	NET	2252	BE	57	49 17.412	123 06.343		16	13				NDTS, Scor ONH
			2254	EN		49 17.429	123 06.332							55 s, 13m

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24	Shipyards	CTD	23:09	BE	58	49 18 456	123 06 304		26	22				Shipyards (D12)
			23:10	EN		4918 446	123 06 297							
24	Shipyards	NET	23:12	BE	59	49 18.447	123 06.304		25	22				NDIS, SCOR DNH
			23:14	EN		49 18.448	123 06.342							1:18 min at 1.5 kts
24	Engl Bay	CTD	23:59	BE	60	49 17.886	123 11.995		26					English Bay (DB)
			00:01	EN		49 17.887	123 11.945			22				
25	Engl. Bay	NET	00:03	BE	61	49 17.886	123 11.929		25					NDIS, SCOR DNH
			00:06	EN		49 17.878	123 11.926			22				1:24 min at 1.5 kts
25	SGA 10	NET/	24		62	49 36.56	124 10.80		400	250				BIONESS - Trials in
		CTD												Malaspina Strait
25	SGA 10	NET/			63	49 36.56	124 10.80							
		CTD												
25	SGA 10	NET/	10 A7		64	49 38.45	134 13.64		350	200				
		CTD												
27	SGA 10	NET/	12 23		65	49 38.42	124 14.77		350	45				
		CTD												

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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
25	FrCr	NET	1500	BE	66	50 25.00	124 30.00		65	65				Start at French Cr.
			1505	BO										Test only.
			1525	EN										
26	CPF1	CTD	0143	BE	67	49° 20.91	124 06.36		435	420				CPF1 - COPRA
			0153	BO		49 20.80	124 06.44							(F1)
			0202	EN		49 20.74	124 06.42							
26	CPF1	NET	0208	BO	68	49 20.66	124 06.34		409	50				CPF1 - COPRA
26	CPF1	NET	0221	BO	69	49 20.63	124 06.19		409	250				CPF1 - COPRA
26	Trinch	CTD	1515	BE	70	49 01.68	123 39.69		41	38				Trincomali Channel
			1517	BO		49 01.68	123 39.73							(E2)
			1519	EN		49 01.68	123 39.75							
26	Stuntch	CTD	1558	DE	71	49 04.79	123 45.03		63	60				Start channel N
			1600	BO		49 04.84	123 45.04							(E3)
			1601	EN		49 04.86	123 45.04							

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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
26	Stuart Ch	CTD	1759	BE	72	48 56.72	123 41.55		101	95				Stuart Channel S
			1701	BO		48 56.73	123 41.52							EA
			1704	EN		48 56.73	123 41.49							
26	Osborn B	CTD	1749	BE	73	48 52.29	123 35.60		214	210				Osborn Bay ES
			1758	BO		48 52.23	123 35.64							
			1803	EN		48 52.204	123 35.68							
26	Osborn B	NET	1813	BO	74	48 52.14	123 35.75		211	205				Osborn Bay
			1824	EN		48 52.09	123 35.79							

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