

CRUISE
NUMBER

9725

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

May 27 - 30, 1997

VESSEL

Vector

PROJECT

Georgia Strait.

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

Cruise Participants / Agencies: _____

Scientific Personnel: Party Chief: Tom Jahnke

Name	Watch	Cabin	Name	Watch	Cabin
Bernard Hinkley	_____	_____	_____	_____	_____
Doug Anderson	_____	_____	_____	_____	_____
Dave Spear	_____	_____	_____	_____	_____
Alex MacGillivray	_____	_____	_____	_____	_____
Mary O'Brien	_____	_____	_____	_____	_____
Isabelle Beaudet	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Second leg of cruise: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Data logging system: Unit no.: P32

Program Name: SeaSoft

Program version: _____

CTD deck unit make: Seabird model: SBE 11 plus serial no.: _____

Computer make: _____ model: _____ serial no.: _____

1st CTD make: _____ model: _____ serial no.: 0443

Temperature sensor model: _____ serial no.: 2095 primary
coefficients: slope: _____ offset: S/A 2142 second.

Conductivity sensor model: _____ serial no.: 1762 primary
coefficients: slope: _____ offset: S/A 1763 secondary

Pressure sensor range: _____ psi
serial no.: 63507
coefficients: FSP: _____ dB offset: _____

Transmissometer model: _____ serial no.: 182D
coefficients: slope: _____ offset: _____

Comments: _____

2nd CTD make: _____ model: _____ serial no.: 0437
Temperature sensor _____ model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Conductivity sensor _____ model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
Transmissometer _____ model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Winches:

1. make: Swann model: 329 serial no.: 1233 use: CTD
2. make: Swann model: 320 serial no.: 1207 use: mooring
3. make: _____ model: 310 serial no.: 1083 use: empty
4. make: _____ model: _____ serial no.: _____ use: _____
5. make: _____ model: _____ serial no.: _____ use: _____
6. make: _____ model: _____ serial no.: _____ use: _____
7. make: _____ model: _____ serial no.: _____ use: _____

Salinometer: make: Guilddine model: 8410 serial no.: 59724

~~SAIL System:~~

~~Program version: _____ Time zone: _____
Sampling interval: _____ sec
CTF module no.: _____ serial no.: _____
Remote temperature model: _____ serial no.: _____
Flow sensor model: _____ serial no.: _____
Other sensors: (special for this cruise)~~

~~Name: _____ module ID: _____ serial no.: _____
Name: _____ module ID: _____ serial no.: _____
Name: _____ module ID: _____ serial no.: _____~~

Comments: _____

~~ADCP Setup:~~

~~Program version: _____ number of depth bins: _____
Time zone: _____ bin length (2x): _____
Sampling interval: _____ sec pulse length: _____
Blank beyond transmit: _____ pings per ensemble: _____
Pulse cycle time: _____
% pings good threshold: _____~~

Comments: _____

Date Time PDT

May 27

0838

- depart I.O.S.

0900

- $48^{\circ} 39.434'$ $123^{\circ} 28.982'$ #1 Sur. Sed.

- continue to D8A and Boundary Passage stations.

1230

- completed CTD + Rosettes in Boundary Passage + heading back to GSCM1-D for recovery.

#1 Test of OML pinger receiver enroute to GSCM1.

a) - stopped 6.5 cable - .55 mi away from mooring
- hearing both pingers well along with multiple echos?

- trying Big Ear.

- received both pingers as well but less extraneous noise.

- summary - OML receiver louder on 27kHz but also receives more ambient noise.

* - did hear pingers under tow.

- ambient noise goes down (ship)

with depth of transducer.

b) - stopped 2.5 cables

- signals loud + clear

- very low gain excludes ambient noise to some degree

- Big Ear also loud - again ambient noise suppressed better.

c) towed transducer off stern at 1-2 knots 500 m from station to station.

- need more line to get away from ship noise.

- need to filter ambient noise out.

*

Date. Time. PDT.

May 27

- 1320 - on station GSCM1-D
- sorted out minor equipment problem
- 1350 - XPND on mooring 2.5 cable away - no response
- sent BCE
- XPND - response of 405 m range.
- 1352 - sent ACFG - receive positive response.
- 1353 - sighted on surface
- 1415 - mooring recovered + heading for GSCM2-D
- 1525 - Test #2 OML pinger receiver
- stopped 2 km short of station
- OML receiver picked up pinger signal faintly
- Big Ear did not

Conclusion - OML receiver is more sensitive +/or more omnidirectional. ?

- 1545 - on station GSCM2-D for recovery
- XPND 320 m, 377 m,
- 1550 - sent ABDH - received positive response
- 1552 - sighted on surface.
- mooring recovered without incident.
- 1820 - on station GSCM3-D
- XPND 384, 383, m - too close moving off 1 1/2 cables
- 1825 - XPND range 460.
- sent ACGH - received positive response
- 1830 - sighted on surface. - Proceed to station NIO7

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INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		May		Vector		9725		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
27	D8A	ROS	17:22		3.	48 42.10	123 15.13		361	331	/			
27	D8A	ROS	17:33		4	48 42.04	123 15.21				/	2		
27	D7A	ROS	18:23		5	48 44.01	123 08.43		166					
27	D7A	ROS	18:27		6	48 43.97	123 08.47				1-10	10		
27	D6A	CTD	19:24		7	48 45.84	123 02.53		230					
27	D6A	CTD	19:30		8	48 45.82	123 02.65				11	1		
28	N107	ROS	0404		9	49 22.42	123 32.29		68					
28	N107	ROS	0407		10	49 22.40	123 32.22				12-18	7		
28	N106	ROS	0442		11	49 21.45	123 35.03		176					
28	N106	ROS	0447		12	49 21.46	123 35.02				19-28	10		
28	N105	ROS	0534		13	49 19.67	123 38.56		263					
28	N105	ROS	0540		14	49 19.71	123 38.59				29-41	13		
28	N104		0628		15	49 18.02	123 42.43		298					
28	N104	ROS	0637		16	49 18.22	123 42.51				42-55	14		
28	N103	ROS	0744		17	49 16.06	123 45.96		410					
28	N103	ROS	0754		18	49 16.23	123 46.03				56-70	15		
28	N102	ROS	0846		20	49 14.59	123 48.59		314					
28	N102	ROS	0856		21	49 14.59	123 48.54				71-84	14		

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

<u>Date</u>	<u>Time PDT</u>	
May 28	0800	- on station GSCM4-D for recovery. - XPND - no reply. - sent CDF. - XPND 727 m. 692 m - too far away moving closer
	0809	- XPND 519 m 522 m
	0810	- sent BFGH - positive response.
	0812	- sighted on surface.
	0900	- all on board - clean up + prep. for redeployment.
	1000	- mooring cleared, cleaned, demobed. - setting up GSCM4-E - interrupted by lengthy boat + fire drift, also lunch.
	1350	- launched GSCM4-E in 408 m water at. $49^{\circ} 16.006'$, $123^{\circ} 46.656'$ - Bridge. = 440 m water at: $49^{\circ} 16.001'$, $123^{\circ} 46.603'$
	1400	- Proceed to GSCM3 for deployment.
	1642	- deployed GSCM3-E at $49^{\circ} 06.077'$ $123^{\circ} 29.539'$ in 342 m lab - at. $49^{\circ} 06.078'$ $123^{\circ} 29.538'$ in 344 m bridge. - Proceed to GIO3 for Rosette/CTD's

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28	NIO1	ROS	0936		22	49 13.36	123 51.32		122						
28		ROS	0939		23	49 13.38	123 51.30				85-93	9			
28	GI04		1037		24	49 12.65	123 40.30		392					Rosette on bottom.	
28	GI04		1048		25	49 12.82	123 40.35				94-108	15			
29	GI03		0111		26	49 10.28	123 33.66		376					air vents open	
29	GI03		0119		27	49 10.30	123 33.87				109-123	15			
29	VI05		0309		28	49 11.47	123 17.79		52					cleaned Trans.	
29	VI05		0311		29	49 11.46	123 17.76				124-129	6		sd on bottom.	
29	VI04		0355		30	49 08.76	123 23.88		208						
29	VI04		0400		31	49 08.79	123 23.86				130-141	12			
29	VI03		0452		32	49 06.08	123 28.99		343						
29	VI03		0501		33	49 06.14	123 29.15				142-156	15			
29	VI02		0558		34	49 04.55	123 32.34		238						
29	VI02		0605		35	49 04.60	123 32.50				157-169	13			
29	VI01		0649		36	49 03.05	123 35.43		130						
29	VI01		0653		37	49 03.07	123 35.47				170-177	8			
29	GI02		0803		38	49 02.61	123 23.24		265						
29	GI02		0809		39	49 02.58	123 23.13				178-190	13			

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 -

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YEAR 1997			MONTH May			SHIP			CRUISE 9725			PAGE 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
29	G101	ROS	0858		40	48 58.47	123 16.37		165					CTD 0443
		ROS	0903		41	48 58.40	123 16.34				191-199	9		{
	S103	ROS	2058		42	48 55.12	123 10.74		128					
		ROS	2101		43	48 55.09	123 10.74				200-208	9		
29	M103	ROS	2142		44	48 51.73	123 05.12							CTD 0437
		ROS	2148		45	48 51.60	123 05.15				209-218	9		CTD 0443
29	M101	CTD	2240		46	48 52.35	123 14.54		155					CTD 0437
	M101	CTD	2245		47	48 52.33	123 14.55							↓
	M101	BOT	2240			48 55.09	123 10.74				219	1		
29	M102	CTD	2308		48	48 53.77	123 12.73		143					
	M102	CTD	2311		49	48 53.78	123 12.75							
29	M102	BOT	2308			48 53.78	123 12.75							nickin bottle
	M104	CTD	2340		50	48 56.02	123 09.55		121					
	M104	CTD	2343		51	48 56.00	123 09.53							
		BOT	2340			48 56.00	123 09.53							nickin bottle
30	M105	CTD	00101		52	48 57.03	123 08.21		112					
			0003		53	48 57.00	123 08.18							
		BOT	0100			48 57.01	123 08.19							nickin bottle

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
30	MI06		0018		54	48 57.87	123 07.08		125					
			0021		55	48 57.87	123 07.06							
	MI06	Bot	0017			48 57.87	123 07.07							nickin bottle
30	M107	CTD	0038		56	48 58.86	123 05.78		40					use con file from #56
	M107	CTD	0040		57	48 58.87	123 05.76							for #46-55
		Bot	0038			48 58.87	123 05.78							nickin bottle
30	SI08	CTD	0122		58	48 56.47	122 58.95		40					
	SI08	CTD	0124		59	48 56.47	122 58.90							
		Bot	0122			48 56.48	122 58.93							nickin bottle
30	SI07	CTD	0140		60	48 55.52	123 00.09		129					
	SI07	CTD	0144		61	48 55.50	123 00.11							
		Bot	0140			48 55.52	123 00.09							nickin bottle
30	SI06	CTD	0158		62	48 54.50	123 01.34		152					
	SI06	CTD	0202		63	48 54.50	123 01.33							
		Bot	0158			48 54.503	123 01.343							nickin bottle
30	SI05	CTD	2119		64	48 53.71	123 02.69		160					
	SI05	CTD	0223		65	48 53.73	123 02.72							
		Bot	0218			48 53.71	123 02.68							nickin bottle

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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