MOCNESS DATA SHEET Horizontal Vent Tow

#0014

Sta. No. MOC-6Y-001 Date 25/26 JULY 85 Time from 0027 to _____

Sea State calm Wind Dir. _____ Force < 5 kts

Lat. _____ Long. _____ Ship's Speed _____

Net Mesh Size 333 µm Cod End Mesh Size 333 µm Condition Good

Magnetic Tape # Cassette 1/4" Temp 542 Sal Probe #96

Used AQUI/GULF ON CBM @ PRINTER & DISC DRIVE (61 characters)

MODIFIED SENSORS - LIGHT & PINGER + longer data format

Samples

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Preserved Jar #
Start Down	0000	0				Net 0		1
(Net 0 Open)								
Down								
Net 1 Open	0143	1979m	24°	None Flowmeter dead		Net 1		2
Net 2 Open	0158	1897	28°	"		Net 2		3
Net 3 Open	0213	1870	30°	"		Net 3		4
Net 4 Open	0228	1786	31°	"		Net 4		5
Net 5 Open	0243	1716	31°	"		Net 5		6
Net 6 Open	0258	1765	31°	"		Net 6		7
Net 7 Open	0313	1853	30			Net 7		8
Net 8 Open	0328	1893	30			Net 8		9
~~Net 9~~ Closed Open	0343	1805	30			~~Net 9~~		
	final							
Start Down (Net 10 Open)						Net 10		
Net 11 Open						Net 11		
Net 12 Open						Net 12		
Net 13 Open						Net 13		
Net 14 Open						Net 14		
Net 15 Open						Net 15		
Net 16 Open						Net 16		
Net 17 Open						Net 17		
Net 18 Open						Net 18		
Net 19 Open						Net 19		

note light showed surface lights

Echo finder working as hoped – from the surface it read the same as pressure all the way to 850 meters – tracking surface; showed 9 M less than pressure gauge due to offset –

Having trouble with the wind [illegible] down overhauling wire going under the ship due to course –

MOCHESS DATA SHEET

Sta. No. MOC-GY-002 Date 26/27 JULY 100 Time from ~~0105~~ 0050 to 0404

Sea State ~~Calm~~ Mod Wind Dir. [illegible] Force ~~[illegible]~~ 20 Kts

t. ______ Long. ______ Ship's Speed 1.9

Net Mesh Size 333 μm Cod End Mesh Size 333 μm Condition GOOD

Magnetic Tape # 1/4" cassette Sal Probe #96 Temp probe #546

CBM 8032 / 8050 DISC / 4022 PRINTER

Bottom finding pinger + light sensor
Modified data format = 61 characters

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Samples: Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	0105					Net 0			
Down	0154							1668	
Net 1 Open	020547	1000	39	293		Net 1		489	
Net 2 Open	021747	~~900~~ 950	44	126		Net 2		1320	
Net 3 Open	024521	700 (800)	55	388		Net 3		1090	
Net 4 Open	030904	~~500~~ 655	55	342	1221	Net 4		679	
Net 5 Open	032056	400	52	210	819	Net 5		531	
Net 6 Open	035223	300	47	147	630	Net 6		456	
Net 7 Open	034403	200	44	122	552	Net 7		526	
Net 8 Open	035326	100	40	130	623	Net 8		555	
Net Surface	040445	0							

Remarks: Regular oblique tow to 1000 m — STARTED OUT WITH NET 1 ON DECK UNIT (INSTEAD OF ZERO)
— Course 030 — down at 40 m/pm
— Max (1978 MT) wire out — 1981 deck lab — Continued to pay out until 0208
Wire out (lab) 2177 m — 0225 start in at 10 m/pm
— Very nice tow — No problems

MOCNESS DATA SHEET

Sta. No. MOC-GY-003 Date 27/~~28~~ JULY Time from 1849 to 2008

Sea State Calm Wind Dir. ______ Force ______

Lat. ______ Long. ______ Ship's Speed 2 Kts Course 215

Net Mesh Size 333 μm Cod End Mesh Size 333 μm Condition Good

Magnetic Tape # 1/4" cassette 8032 CBM - 8050 DISC - 4022 PRINTER

Sal Probe 96 Temp Probe 542 Light sensor + Pinger

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Corrected Volume	Preserved Jar #
Start Down (Net 0 Open)	1849					Net 0		1456	19
Down									
Net 1 Open	204443	1898	20	190		Net 1		464	20
Net 2 Open	203018	1892	25	82	466	Net 2		589	21
Net 3 Open	204534	1920	31	99	540	Net 3		596	22
Net 4 Open	210049	1884	37	121	624	Net 4		650	23
Net 5 Open	211552	1904	42	130	629	Net 5		657	24
Net 6 Open	213047	1924	46	138	637	Net 6		673	25
Net 7 Open	214526	1943	49	145	680	Net 7		710	26
Net 8 Open	220046	1908	48	174	738.3	Net 8		698	27
Net ~~Surface~~ closed	221549	1932	48	159	674				

Remarks: launch while sun still out - Heading toward SW down vents trough - Frame was towed about 100 m above the bottom - Notes in my log - max wire out 5194 - Very nice trajectory along bottom of vents area

MOCNESS DATA SHEET

Sta. No. MOC-GY-004 Date 28JULY85 Time from 1818 to 2317

Sea State CALM Wind Dir. ______ Force ______

t. ______ Long. ______ Ship's Speed ______

Net Mesh Size 333 μm Cod End Mesh Size 333 μm Condition GOOD

Magnetic Tape # Cassette 1/4" Temp 542 Sal 96 8082 CPU - 8050 DISC
4022 PRINTER LIGHT SENSOR & PINGER

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Samples: Frozen Jar #	Corrected Volumes	Samples: Preserved Jar #
Start Down (Net 0 Open)	1818					Net 0		2119	
Down	1924	~1900	20	181					
Net 1 Open	193040	1889	24	102	593	Net 1		631	
Net 2 Open	195047	1881	26	110	625	Net 2		741	
Net 3 Open	201022	1954	32	109	591	Net 3		567	
Net 4 Open	202517	1913	33	111	589	Net 4		632	
Net 5 Open	204021	1939	36	124	635	Net 5		648	
Net 6 Open	205532	1942	38	129	644	Net 6		683	
Net 7 Open	211011	1971	41	138	664	Net 7		645	
Net 8 Open	212523	1950	41	136	649	Net 8		670	
~~Net Surface~~ Close 8	214026	1971							

Started up at 2140

Remarks: 4th tow on cruise - same track as last tow - long horizontal area to show in vents region - 3595 mwo @ 2006 Net at 1956
- Very nice tow - everything seemed to work well
4350 mwo when net started up
time gap between side 4 & side 5 on cassette

MOCNESS DATA SHEET

Sta. No. MOC-GY-005 Date 29 JULY 85 Time from 0020 to 0314

Sea State CALM Wind Dir. — Force —

Lat. ______ Long. ______ Ship's Speed ______

Net Mesh Size 333 Cod End Mesh Size 333 Condition GOOD

Magnetic Tape # Cassette ¼" Temp 592 Cond 96 8052 C819 - 8050 DISC

400 Photo Light + Rago

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Samples: Frozen Jar #	Corrected Volume	Samples: Preserved Jar #
Start Down (Net 0 Open)	0020			See printout		Net 0			37
Down			26	216	1093			1571	
Net 1 Open	012004	1000	38	187	961	Net 1		826	38
Net 2 Open	014228	850	45	207	978	Net 2		776	39
Net 3 Open	020002	700	47	238	1035	Net 3		892	40
Net 4 Open	021905	550	46	188	814	Net 4		662	41
Net 5 Open	023248	400	46	154	677	Net 5		581	42
Net 6 Open	024512	300	42	125	589	Net 6		490	43
Net 7 Open	025551	200	39	99	462	Net 7		370	44
Net 8 Open	030915	100	44	125	567	Net 8		480	45
Net Surface	031422	0							

Remarks: 5th tow on cruise - 0 to 1000m - Note net 10 = Net 0 on Printout - Very nice tow

MOCNESS DATA SHEET

Sta. No. MOC-GY-006 Date 29 JULY 85 Time from 2156 to 0313

Sea State CALM Wind Dir. ________ Force ________

________ Long. ________ Ship's Speed ________

Net Mesh Size 333 µm Cod End Mesh Size 333 µm Condition GOOD

Magnetic Tape # Cassette 94 8032 CBM, PLOTTER, DISC, PRINTER

Temp 596 SAL 96 Light & Pinger

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	2156					Net 0		1898	46
Down			20	199	~1097				
Net 1 Open	233515	1944	30	190	1023.9	Net 1		913	47
Net 2 Open	000010	1800	38	208	1023.8	Net 2		934	48
Net 3 Open	002249	1700	40	228	1099.6	Net 3		1012	49
Open	004682	1600	41	240	1144	Net 4		997	50
Net 5 Open	010847	1450	41	213	1012	Net 5		871	51
Net 6 Open	012806	1300	43	240	1129	Net 6		973	52
Net 7 Open	014999	1140	43	214	991	Net 7		854	53
Net 8 Open	020732	1000	43	203	933	Net 8		788	54
~~Net Surface~~	022411	850							

Remarks: deep tow to ~2000 m (oblique) - plotter seen in at 233659 flying net obliquely from ~100 m within bottom (~2000 m) to 1000 m

— Beauty of a tow —

— tape ran out at 0235 when net was at 723 m — Sub Co

MOCNESS DATA SHEET

Sta. No. MOC-GY-007 Date 30 JULY 85 Time from 1713 to ______

Sea State Slight Chop Wind Dir. South East Force ~10 to 15 kts

t. ______ Long. ______ Ship's Speed ______

Net Mesh Size 333 µm Cod End Mesh Size 333 µm Condition Good

Magnetic Tape # Cassette 1" 8033CBM - 8050 disc - 4022 printer - HP plotter

Temp = 5 46 Sal = 96 Light (not working)

Purger

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	1713		~~[illegible]~~ OK			Net 0		6115	55
Down	1929		38	893	4239				
Net 1 Open	192952	1907	43	148	691	Net 1		728	56
Net 2 Open	194020	1880 (Net 2 on 1939)	49	189	801	Net 2		748	57
Net 3 Open	195515	1861	49	180	785.1	Net 3		772	58
Net 4 Open	201026	1809	49	201	831.5	Net 4		780	59
Net 5 Open	202521	1772	50	202	833	Net 5		804	60
Net 6 Open	204009	1758	50	198	816	Net 6		805	61
Net 7 Open	205520	1763	49	195	798	Net 7		806	62
Net 8 Open	211023	1732	50	205	820	Net 8		799	63
~~Net Surface~~ Net closed	212519								

Remarks: Deep horizontal tow at oblique angle to axis of Vent region - Course 130 starting to NW of South basin
1713 net in water - 1717 started tape - Side 2 started at 1849
Tape 6 ran out at 2250 - No attempt to record more - Disc has data

MOCNESS DATA SHEET

Sta. No. MOC-GY-008 Date 31 JULY 85 Time from 0105 to ____

Sea State slight chop Wind Dir. ____ Force ____

Lat. ____ Long. ____ Ship's Speed ____

Net Mesh Size 333 μm Cod End Mesh Size 333 μm Condition Good

Magnetic Tape # Cassette 1/4" 8082 CBM - 8050 DISC 4022 PRINTER - HI PLOTTER

Temp = 5.16 Sal = 96 Light (not working) Pinger

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	0105					Net 0		3334	64
Down	0204		35	626	2670				
Net 1 Open	022557	~~1000~~ 983	45	260	1185	Net 1		1040	65
Net 2 Open	024724	832	43	157	690	Net 2		560	66
Net 3 Open	025916	700	41	168	800	Net 3		654	67
Net 4 Open	031347	550	38	155	766	Net 4		621	68
Net 5 Open	032818	400	40	117	584.4	Net 5		467	69
Net 6 Open	033826	300	41	124	604	Net 6		570	70
Net 7 Open	034833	200	43	110	502	Net 7		408	71
Net 8 Open	035657	100	46	132	571	Net 8		486	72
Net Surface	040625	0							

Remarks: 0-1000 m oblique - Moon 1/2 full & 1/2 up
Start tape at 0108 - Note Net 1 on printout
= Net 0 and so on
- Very nice tow - Good samples -
No problem flying nets.

MOCNESS DATA SHEET

Sta. No. MOC-GY-009 Date 31 JULY 85 Time from 1910 to ______

Sea State Choppy Wind Dir. SE Force 15 Kts

Lat. ______ Long. ______ Ship's Speed ______

Net Mesh Size 333 um Cod End Mesh Size 333 um Condition Good

Magnetic Tape # Cassette 1/4 8032 CBM - 8050 Disc - 4022 Printer - HC Plotter

Temp = 5?6 Sal = 96 Program

No light

	Time	Depth	Angle	Flow Counts	Vol. Filtered	Net	Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	1910				2380	Net 0		2380	73
Down			24	280	1432				
Net 1 Open	204152	1905	43	242	1184 / 1095	Net 1	25 ml	1095	74
Net 2 Open	210847	1800	48	239	998 / 893	Net 2	210 ml	893	75
Net 3 Open	212739	1700			1930 / 1754	Net 3	450 ml	1754	76
Net 4 Open		1600				Net 4			
Net 5 Open		1450				Net 5			
Net 6 Open		1300				Net 6			
Net 7 Open		1150				Net 7			
Net 8 Open		1000				Net 8			
Net Surface		850							

Remarks: deep oblique 2000m to 1000m - 1/4" cassette not turned on until capture started - Disc File MOC-GY-009A Start cassette at 2041. Net 3 fished all the way to the surface - apparently batteries too low for step motor - preserved all samples

MOCNESS DATA SHEET

Sta. No. MOC-BY-010 Date 1 AUG 85 Time from 2017 to ______

Sea State Choppy Wind Dir. ______ Force ______

Lat. ______ Long. ______ Ship's Speed ______

Net Mesh Size 333 µm Cod End Mesh Size 333 µm Condition Good

Magnetic Tape # cassette 8032CB19, 8050 disc, 4022 [illegible], #1 [illegible]

Temp 54.6 Sal 96 No light

Purge

	Time	Depth	Angle	Flow Counts	Vol. Filtered		Frozen Jar #	Corrected Volumes	Preserved Jar #
Start Down (Net 0 Open)	2018					Net 0		1396	77
Down			38	293	~~1337~~ 1201				
Net 1 Open	204551	~~199~~ 200	45	110	482.1	Net 1		459	78
Net 2 Open	205947	175	50	126	509	Net 2		490	79
Net 3 Open	210459	150	49	64	265	Net 3		239	80
Net 4 Open	210934	125	49	58	239	Net 4		216	81
Net 5 Open	211334	100	49	62	244	Net 5		224	82
Net 6 Open	211742	75	54	121	457	Net 6		431	83
Net 7 Open	[illegible]	50	46	79	343	Net 7		319	84
Net 8 Open	2[illegible]50	25	40	25	112	Net 8		99	85
Net Surface	213305	0							

Remarks: 0-200 m tow at night after scattering layer up