

BRIDGE LOG

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VESSEL: TOMMY MUNRO CRUISE: 961REMARKS: LEG 1 - 06/06 - 6/10/96 Leg 2 - 6/25/96 Leg 3 - 7/05 - 7/9/96

STATION NO. PAS./SEAMAP	DATE MMDDYY	TIME ON STATION			LATITUDE START/END	LONGITUDE START/END	DEPTH (FM) START/END	PRIMARY GEAR		OTHER GEARS USED	BONGO IN/OUT	NEUSTON IN/OUT	VESSEL SPD/C.C.	OTHER DATA COLLECTED (✓)							
		PO/DO	PU/OD					SIZE	TYPE					SHRIMP L/F	GEN. L/F	ENV.	SAL	DO	CL	ICH.	OTHER
17001	6/6/96		0749		2929.28	8839.46	16.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		Temp
ED013		0739			2929.04	8839.05	17.5			TF				✓	✓	✓	✓	✓	✓		
17002	11		1044		2925.18	8843.74	20.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
ED016		1030			2924.89	8843.04	22.0			TF				✓	✓	✓	✓	✓	✓		
17003	11		1354		2919.07	8855.61	14.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
ED010		1344			2918.84	8855.16	15.0			TF				✓	✓	✓	✓	✓	✓		
17004	11		1750		2915.25	8827.20	46.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
ED022		1740			2914.83	8827.12	53.0			TF						✓	✓	✓	✓		
17005	11		2236		2907.29	8849.93	45.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
EN023		2200			2905.85	8849.93	55.0			TF						✓	✓	✓	✓		
17006	6/7/96		0330		2906.91	8845.94	45.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
EN022		0259			2905.65	8845.37	50.0			TF				✓	✓	✓	✓	✓	✓		
17007	11		0636		2909.24	8846.81	41.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
EN021		0541			2906.80	8846.11	46.0			TF				✓	✓	✓	✓	✓	✓		
17008	11		0957		2915.84	8823.12	50.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
ED023		0941			2915.00	8822.90	60.0			TF				✓	✓	✓	✓	✓	✓		
17009	11		1357		2929.99	8830.01	25.0	PN		NM BC OY			2.0			✓	✓	✓	✓	✓	✓
B0179		1230			2929.94	8830.01	25.0			SA TF							✓	✓	✓	✓	
17010	11		2106		2912.89	8847.55	35.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
EN020		2023			2910.84	8846.71	37.5			TF						✓	✓	✓	✓		

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STATION NO. PAS./SEAMAP	DATE MMDDYY	TIME ON STATION		LATITUDE START/END	LONGITUDE START/END	DEPTH (FM) START/END	PRIMARY GEAR		OTHER GEARS USED	BONGO IN/OUT	NEUSTON IN/OUT	VESSEL SPD/C.C.	OTHER DATA COLLECTED (✓)							
		PO/DO	PU/OD				SIZE	TYPE					SHRIMP L/F	GEN. L/F	ENV.	SAL	DO	CL	ICH.	OTHER
17011	6/7/96		0025	2917.61	8847.9	30.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	Temp
END019		2353		2916.16	8847.23	32.5			TF											
17012	6/8/96		0401	2919.90	8848.55	25.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
END018		0332		2918.83	8848.06	28.0			TF											
17013	11		0553	2917.95	8853.93	18.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
END014		0543		2917.59	8853.50	19.0			TF											
17014	11		2024	2923.40	8854.48	10.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
END006		2000		2922.70	8853.42	11.0			TF											
17015	6/9/96		0125	2940.16	8824.83	22.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
END017		0025		2937.66	8825.77	22.0			TF											
17016	11		0511	2945.54	8834.86	13.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
END009		0446		2944.33	8834.50	13.5			TF											
17017	11		0949	2958.21	8832.25	14.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓	✓	✓
ED009		0914		2957.74	8834.26	13.0			TF											
17018	11		1143	3001.43	8844.20	8.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
ED004		1111		3001.09	8842.58	9.0			TF											
17019	11		1356	3003.35	8845.25	7.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
ED003		1329		8843.87	8843.87	8.0			TF											
17020	11		1613	3011.77	8846.14	6.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓	✓	✓
ED002		1536		3010.35	8844.41	7.0			TF											

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STATION NO. PAS./SEAMAP	DATE MMDDYY	TIME ON STATION		LATITUDE START/END	LONGITUDE START/END	DEPTH (FM) START/END	PRIMARY GEAR		OTHER GEARS USED	BONGO IN/OUT	NEUSTON IN/OUT	VESSEL SPD/C.C.	OTHER DATA COLLECTED (✓)							
		PO/DO	PU/OD				SIZE	TYPE					SHRIMP L/F	GEN. L/F	ENV.	SAL	DO	CL	ICH.	OTHER
17021	6/9/96		1847	3000.02	8829.79	14.0	PW		BN	BL	OY	2.0			✓	✓	✓	✓	✓	TEMP
B0178		1811		3000.02	8829.79	14.0			SA	TF										
17022	11		2155	2944.93	8842.39	6.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN002		2137		2944.97	8846.31	7.0			TF											
17023	11		0003	2946.97	8836.57	11.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN007		2344		2947.20	8837.70	11.5			TF											
17024	6/10/96		0255	2953.88	8835.30	12.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN008		0230		2953.28	8833.87	13.0			TF											
17025	11		0600	2957.75	8831.33	14.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN010		0525		2957.30	8829.67	15.0			TF											
17026	6/25/96		1841	3005.44	8830.63	9.0	40	ST	BC	OY	SA	3.0		✓	✓	✓	✓	✓		✓
ED005		1817		3004.36	8830.36	10.0			TF											
17027	11		2040	3005.07	8828.45	9.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN005		2016		3003.86	8828.27	10.0			TF											
17028	11		2317	3002.50	8843.32	8.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
EN004		2246		3001.95	8841.89	9.0			TF											
17029	7/5/96		2050	2917.93	8945.31	2.0	40	ST	BC	OY	SA	3.0	✓	✓	✓	✓	✓	✓		✓
WN001		2038		2917.51	8945.81	3.0			TF											
17030	7/6/96		0211	2901.22	9023.54	4.0	40	ST	BC	OY	SA	3.0		✓	✓	✓	✓	✓		✓
WN003		0200		2900.67	9023.45	5.0			TF											

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		PO/DO	PU/OD				SIZE	TYPE					SHRIMP L/F	GEN. L/F	ENV.	SAL	DO	CL	ICH.	OTHER
17031	7/6/96		0639	2905.02	9012.77	2.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		TKM
WD001		0629		2905.17	9012.33	3.0	40	ST	TF											
17032	11		1128	2852.55	9047.94	4.2	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
WD002		1118		2852.06	9047.93	5.2	40	ST	TF											
17033	11		1738	2908.60	9129.73	3.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
WD003		1708		2908.07	9129.92	4.0	40	ST	TF											
17034	11		2124	2919.40	9153.39	3.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
WN003		2049		2920.79	9155.59	4.0	40	ST	TF											
17035	7/7/96		0129	2928.21	9225.21	4.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
WN004		0112		2927.28	9225.16	5.0	40	ST	TF											
17036	11		0523	2938.97	9253.43	3.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
WN005		0504		2938.07	9253.20	4.0	40	ST	TF											
17037	11		0802	2934.33	9236.90	2.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
WD004		0744		2933.57	9236.42	3.0	40	ST	TF											
17038	11		1320	2942.63	9316.47	4.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
WD005		1250		2941.18	9316.47	5.0	40	ST	TF											
17039	11		1450	2942.14	9322.38	3.0	40	ST	BC OY SA			3.0		✓	✓	✓	✓	✓		✓
WD006		1437		2941.51	9322.46	4.0	40	ST	TF											
17040	11		2030	2944.98	9335.73	2.0	40	ST	BC OY SA			3.0	✓	✓	✓	✓	✓	✓		✓
WN006		2013		2944.32	9336.26	3.0	40	ST	TF											