

PG 1 OF 38

VESSEL		PROJECT & LEG		STATION DESIGNATION														
NOAAS MILLER FREEMAN		MF97-01		DSDP STA 1, HALL 1														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=050	TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN		DAY	MO											YR
0015651.94N	16442.94W	19	FEB	97	20	59	17	-8.6	-7.6	0.6	4	63	42	26	2	73	4B52	
CTD		TIMES		JD/TIME		DATA LOCATION												
TYPE & SN 92067		DATA ON				Tape/Diskette ID File Name/Header												
PRESS SN 410K-023		START DOWN				CTD001												
TEMP SN 889		AT DEPTH																
COND SN 530 480		AT SURFACE				MAX. DEPTH = 68 m												
TEMP SN 701/COND 303						FLUOR SET @ MOST SENSITIVE SETTINGS												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER	
1	67	67.032	0.6292	0.6292	31.343	31.7968											15	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 1, HAUL 6	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=051
DEG MIN	DEG	MIN	DEG	MIN	DAY MO YR
52.47	N	164.91	W	20	FEB 97
6025652.47	CTD		TIMES		JD/TIME
	TYPE & SN 92067		DATA ON		
	PRESS SN 410K-023		START DOWN		
	TEMP SN 889		AT DEPTH		
	COND SN 600 480		AT SURFACE		
TEMP SN 701/COND 303	<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input type="checkbox"/> TAPS6	<input type="checkbox"/> TAPS4
CTD CONVERTED MONITOR VALUES					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	15	**			31.7659
2	50	49.421	0.3974	0.3949	31.7467
3	40	39.289	0.3942	0.3935	31.7447
4	30	30.745	0.3864	0.3827	31.7509
5	20	20.412	0.3803	0.3812	31.7435
6	10	10.691	0.3842	0.3856	31.7398
7	0				
8					
9					
10					
11					
12					

DATA LOCATION		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
File Name/Header	Tape/Diskette ID	SALINITY	SAL	NUTRIENT	OTHER
CTD002	CTD00217*	31.7659	10	645	
				646	
				647	
				648	
				649	
				650	
				651	

REMARKS	
CTD (420/60 BOWE CENTER OF 3/52 *X)	
pump turned off during	
1st try @ sta, no results	
3 bottles over 15' each	
MAX. DEPTH = 68 m	

** Accidentally turned computer off at depth
 Restarted & took a note after bottles had been fixed

VESSEL		PROJECT & LEG		STATION DESIGNATION																								
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 2 HAUL 1																								
CONSC CAST #	DEG	MIN	LATITUDE		DEG	MIN	LONGITUDE		DEG	MIN	DATE JD=051		TIME (GMT)	HR	MIN	SEC	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	24	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
003	56	43	77	N	16	35	28	6	20	W	20	F	E	B	9	7	07	45	-9.4	-9.5	0.6	48	01	24	9	1	75	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																				
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header																						
PRESS SN 410K-023		START DOWN		CTD003																								
TEMP SN 889		AT DEPTH																										
COND SN 500 480		AT SURFACE																										
TEMP SN 701/COND303		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4																		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER								
1	45	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY				SALINITY				SAL.				NUTRIENT		OTHER									
2	50	50.038	0.5389	0.5404	31.3908				31.3908				25				652											
3	40	40.590	0.5280	0.5281	31.3994				31.3994								653											
4	30	31.013	0.5239	0.5245	31.3954				31.3954								654											
5	20	20.449	0.5244	0.5253	31.3912				31.3912								655											
6	10	10.666	0.5261	0.5269	31.3900				31.3900								656											
7	0	3.435	0.5046	0.5069	31.3922				31.3922								657											
8																	658											
9																												
10																												
11																												
12																												

VESSEL		PROJECT & LEG		STATION DESIGNATION																											
NOAAS MILLER FREEMAN		MF97-01		DSDS STA 4, HALL 1																											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=051	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID														
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR	MIN									
505	56	56.08	N	163	49	55	W	20	F	E	B	9	7	13	29	-9	21	0	5	6	5	6	0	2	31	9	4	2	7	4	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header																							
PRESS SN 410K-023		START DOWN						CTD005																							
TEMP SN 889		AT DEPTH																													
COND SN 500 480		AT SURFACE																													
TEMP SN 701/COND 303		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHIAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4																					
CTD CONVERTED MONITOR VALUES																															
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																							
1	+5					SALINITY		SAL.		NUTRIENT		OTHER																			
2	50	50.174	0.1721	0.1724	31.6290			31.7550		666																					
3	40	41.235	0.1599	0.1599	31.7080					668																					
4	30	31.016	0.1391	0.1802	31.6807					669																					
5	20	20.764	0.1692	0.1693	31.6970					670																					
6	10	10.100	0.1538	0.1130	31.6953					671																					
7	0	3.538	0.1489	0.0263	31.6323					672																					
8																															
9																															
10																															
11																															
12																															

VESSEL		PROJECT & LEG		STATION DESIGNATION																										
NOAAS MILLER FREEMAN		MF97-01		DSDP STA 5, HAUL 1																										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=051	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID													
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR	MIN								
00657	00.91	N	164	12.6	17	W	24	F	9	7	17	24	8	13	0	07	5	6	00	3	2	8	8	7	3					
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																						
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header																						
PRESS SN 410K-023		START DOWN						CTD006																						
TEMP SN 889		AT DEPTH																												
COND SN 590 480		AT SURFACE																												
TEMP SN 701 / COND 303		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHIAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4																				
CTD CONVERTED MONITOR VALUES																														
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																						
1	45-24					SALINITY		SAL.		NUTRIENT		OTHER																		
2	50	50.818	0.0790	0.0796	32.5166			32		673																				
3	40	40.963	0.0633	0.0643	32.7308					674																				
4	36	30.873	0.0903	0.0908	32.6046					675																				
5	20	20.692	0.0668	0.0646	31.8189					676																				
6	16	11.032	0.0631	0.0645	31.6929					678		677																		
7	8	5.973	0.0622	0.0632	31.8024					679		678																		
8										680		679																		
9																														
10																														
11																														
12																														

*4 - no work on Seaseave

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 6, HAUL 5											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=052	TIME (GMT)	WET BULB	DRY BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(m/s)	(m)	
007	56	52.50	N	64	00.97	W	21	F	06	56	14	602	45	33	BS2
CTD		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS			
TYPE & SN 92067		DATA ON						CTD003		CTD AFTER					
PRESS SN 410K-023		START DOWN								DEPLOYMENT OF					
TEMP SN 889		AT DEPTH								97B2A32B					
COND SN 550 480		AT SURFACE								MAX. DEPTH = 67 m					
TEMP SN 701 / COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4					
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	15	66.026		0.1298		0.1316		31.7354		SALINITY		SAL.		OTHER	
2	50	50.100		0.1242		0.1242		31.7349		31.7565		29		680	
3	40	40.838		0.1231		-0.2742		31.7344						681	
4	30	39.471		0.1206		-0.2206		31.7343						682	
5	20	19.866		0.1080		-0.4320		31.7341						683	
6	11	10.489		0.1049		-0.0483		31.7337						684	
7	11	10.945		0.0991		-0.2946		31.7336						685	
8	11	10.707		0.0969		-0.2004		31.7337						686	
9	7	6.817		0.0850		-0.1037		31.7337						687	
10	7	7.241		0.0983		0.0363		31.7328						688	
11	7	6.997		0.0841		0.0495		31.7334						689	
12	0	2.780		0.0855		0.0560		31.7329						690	
														691	

↑ appears 2nd Temp bad (re-zero)

VESSEL		PROJECT & LEG		STATION DESIGNATION																								
NOAAS MILLER FREEMAN		MF97-01		DSOB STA 3, HAUL 1																								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=053	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID											
	DEG	MIN	DEG	MIN	DAY													MO	YR	HR	MIN							
008	56	37.83	N	16	43	6.14	W	21	F	E	B	9	7	11	35	12.7	12.5	605	63	4	2	3	2	6	73		76	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																				
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header																						
PRESS SN 410K-023		START DOWN				CTDOOR																						
TEMP SN 889		AT DEPTH																										
COND SN 590 480		AT SURFACE																										
TEMP SN 701/COND 303		PAR		FLUOR		CHIAM		TAPS6		TAPS4		MAX. DEPTH = 76 m																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																										
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER										
1	15	73.327	0.9284	0.9297	31.9154	SALINITY												SAL.	NUTRIENT	OTHER								
2	50	50.022	0.9288	0.9301	31.9725													23	692									
3	40	40.136	0.9224	0.9232	32.0076														693									
4	30	30.257	0.9142	0.9151	32.0967														694									
5	20	20.687	0.9223	0.9233	32.2085														695									
6	10	12.126	0.9104	0.9116	32.4379														696									
7	11	12.606	0.9128	0.9145	32.4262														697									
8	11	12.662	0.9204	0.9216	32.4495														698									
9	7	7.418	0.9086	0.9096	32.9834														699									
10	7	7.881	0.9119	0.9123	32.9580														700									
11	7	8.144	0.9172	0.9173	32.6865														701									
12	4	4.353	0.9141	0.9149	32.8027														702									
																			703									

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 8, HAUL 1							
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=053	TIME (GMT)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	PRESSURE	(deg)	(m/s)			(m)	
0095630.98N	16459.1	19W21	FEB 97	1358	11.5985	347	31	773		79	
CTD		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header					
PRESS SN 410K-023		START DOWN				CTD0001					
TEMP SN 889		AT DEPTH									
COND SN 500 480		AT SURFACE									
TEMP SN 701 COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4	
MAX. DEPTH = 79 m		SEC SAL LOOKS BETTER THAN TRI SAL									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER		
1	15	72.812	1.2948	1.2955	32.2729	32.0045	26	702	#7		
2	50	51.098	1.2793	1.2799	31.9839			703			
3	40	40.962	1.2828	1.2833	31.9817			704			
4	30	30.367	1.2893	1.2906	31.9803			705			
5	20	20.875	1.2904	1.2915	31.9783			706			
6	11	- used in bottle - No Sample taken -						*			
7	11	11.393	1.2697	1.2725	31.9756			708			
8	11	11.949	1.2654	1.2711	31.9741			709			
9	7	8.051	1.2363	1.2379	31.9795			710			
10	7	8.172	1.2337	1.2321	31.9795			711			
11	7	8.313	1.2313	1.2347	31.9819	No Sample -					
12	0	- no sample taken / Same depth as 7									

* NUTRIENT BOTTLE

707 WAS NOT USED

VESSEL		PROJECT & LEG		STATION DESIGNATION															
NOAAS MILLER FREEMAN		MF97-01		DDB STA 9 HAUL 1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=052	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
610	56	23	35	N	165	22	98	W	21	F	09	7	18	27	10	8	33	87	
CTD		TIMES		JD/TIME		DATE LOCATION		Tape/Diskette ID		File Name/Header		REMARKS							
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header		CTD010		Pressure sensor took 2 to 10 m - no response							
PRESS SN 410K-023		START DOWN										Descent rate of 20m/min							
TEMP SN 889		AT DEPTH																	
COND SN 500		AT SURFACE																	
TEMP SN 701/COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4		MAX. DEPTH = 81 m							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER		
1	45	79.100	1.6334	1.2706	32.0410	SALINITY											SAL.	NUTRIENT	OTHER
2	50	50.376	1.6181	1.1636	32.0428												32.0638	720	712
3	40	39.897	1.6153	1.3181	32.0379													713	
4	30	29.878	1.6207	1.3267	32.0351													714	
5	20	22.400	1.5988	1.2188	32.0478													715	
6	11	12.488	1.6010	1.3129	32.0309													716	
7	11	13.343	1.6011	1.3264	32.0359													717	
8	11	13.446	1.6132	1.3998	32.0370													718	
9	7	7.539	1.6004	1.4129	32.0348													719	
10	7	9.042	1.5912	1.5584	32.0347													720	
11	7	8.609	1.5941	1.5716	32.0334													721	
12	0	3.034	1.6005	1.5887	32.0379													722	
																		723	

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAAS MILLER FREEMAN		MF97-01		JSDDB STA ID, HAUL 1							
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=052	TIME (GMT)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN			(m/s)	*	*	(m)	
011561616N	14546.38W	21 FEB 97	2019	0934	964	4349	818	72	94		
CTD		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header					
PRESS SN 410K-023		START DOWN				CSD011					
TEMP SN 889		AT DEPTH									
COND SN 590-480		AT SURFACE						Max. WIND 64 126			
TEMP SN 701/COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4	
MAX. DEPTH = 77 m											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER		
1	15							724			
2	30	56.293	2.5198	2.5202	32.1122	32.1388	17	725			
3	40	39.820	2.5216	2.5228	32.1131			726			
4	30	31.504	2.4932	2.4950	32.1103			727			
5	20	21.380	2.4939	2.4944	32.1143			728			
6	11	9.969	2.4640	2.4642	32.1134			729			
7	11	9.823	2.4682	2.4698	32.1148			730			
8	11	9.832	2.4632	2.4638	32.1170			731			
9	7	7.445	2.4745	2.4759	32.1090			732			
10	7	7.399	2.4611	2.4627	32.1155			733			
11	7	7.583	2.4646	2.4652	32.1152			734			
12	6	2.651	2.4544	2.4547	32.1152			735			

** didn't mark on seagave plot / All bottles closed when recovered

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF97-01		0508 STA 15, HAUL 1	
COONSC CAST #	LATITUDE		LONGITUDE		DATE JD=
	DEG	MIN	DEG	MIN	DAY MO YR
0165522.7N	168	10.48	W	22	FEB 97
CTD		TIMES		JD/TIME	
TYPE & SN 92067		DATA ON		Tape/Diskette ID	
PRESS SN 410K-023		START DOWN		File Name/Header	
TEMP SN 889		AT DEPTH		0508	
COND SN 480		AT SURFACE			
TEMP SN 701/COND 303	PAR	FLUOR	CHAM	TAPS6	TAPS4
CTD CONVERTED MONITOR VALUES					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	500 ✓	490.624	3.7792	3.7793	33.8206
2	300 ✓	300.246	4.0599	4.0595	33.2205
3	200 ✓	200.395	4.1237	4.1243	32.9817
4	100 ✓	99.991	4.2620	4.2632	32.8260
5	75 ✓	75.447	3.4826	3.4851	32.5804
6	50 ✓	48.263	3.3988	3.4043	32.5660
7	40 ✓	39.367	3.2490	3.2367	32.5398
8	30 ✓	29.782	3.2035	3.2053	32.5267
9	20 ✓	20.963	3.1462	3.1477	32.5042
10	10 ✓	10.238	3.1156	3.1155	32.4975
11	0 ✓	8.273	3.1112	3.1128	32.4977
12					

SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
SALINITY	SAL.	NUTRIENT	OTHER
33.8326	11	773	
		774	
		775	
		776	
		777	
		778	1
		779	2
		780	3
		781	4
		782	5
		783	6

DATA LOCATION		REMARKS	
Tape/Diskette ID	File Name/Header		
	0508		

MAX. DEPTH =	
510	met

+014

PG 17 OF 38

VESSEL		PROJECT & LEG		STATION DESIGNATION															
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 16, HAUL 2															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(m/s)	(m)					
017	55	20.51	N	168	15	19	W	22	F	E	B	9	7	15	17	1459			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header											
PRESS SN 410K-023		START DOWN						CTD017											
TEMP SN 889		AT DEPTH																	
COND SN 580 480		AT SURFACE																	
TEMP SN 701/COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4		MAX. DEPTH = m							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER		
1	1000	1001.632	2.8656	2.8636	34.2996	SALINITY											SAL.	NUTRIENT	OTHER
2	560	499.201	3.6930	3.6934	33.8754	34.3134											1	784	
3	300	300.670	4.6260	4.0263	33.4237													785	
4	200	199.735	4.2189	4.1202	33.1518													786	
5	100	100.246	4.2696	4.2690	32.8582													787	
6	75	75.412	3.9908	3.9885	32.6785													788	
7	50	49.793	3.3013	3.3030	32.4808													789	
8	30	30.436	3.1751	3.1752	32.4326													933	1
9	20	21.578	3.1066	3.1028	32.4005													934	2
10	10	10.925	3.0983	3.0976	32.3990													935	3
11	0	3.325	3.0859	3.0867	32.3980													936	4
12																		937	5

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 17 HALL I																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN	
618	55	07.66 N	168	29.03 W	22	FEB	97	18	19	-8.0	-8.2	874	4	0	04	08	872	1726			
CTD		JD/TIME		DATA LOCATION		REMARKS															
TYPE & SN 92067		DATA ON _____		Tape/Diskette ID File Name/Header																	
PRESS SN 410K-023		START DOWN _____		_____		CTD018															
TEMP SN 889		AT DEPTH _____		_____																	
COND SN 500-480		AT SURFACE _____		_____																	
TEMP SN 701/COND 303		<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4		MAX. DEPTH = m																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													SAMPLE BOTTLE NUMBER		
1	✓	1501.045	2.2930	2.2935	34.4664	SALINITY 34.4798													SAL.	NUTRIENT	OTHER
2	✓																		13		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

PG 19 OF 38

VESSEL NOAAS MILLER FREEMAN		PROJECT & LEG MF97-01		STATION DESIGNATION DSDP STA 18, HAUL 1																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN													
019	54	58.13	N	168	44.22	W	22	F	E	B	9	7	2	1	0	5	-	6.5	884	5001	168722016	
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS						
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header														
PRESS SN 410K-023		START DOWN						CTD019														
TEMP SN 889		AT DEPTH																				
COND SN 500-480		AT SURFACE																1591 m				
TEMP SN 701/COND 303		<input type="checkbox"/> PAR		<input type="checkbox"/> FLUOR		<input type="checkbox"/> CHAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4		MAX. DEPTH = 1506 m										
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA					SAMPLE BOTTLE NUMBER					
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY							SALINITY				SAL.	NUTRIENT	OTHER				
2		1503.546	22910	2,2914	34.4687							34.4812				30						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 19, HAWAII	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=054
	DEG	MIN	DEG	MIN	DAY
0205	44	40.39	N	169	11
	TIME		TIME		TIME
	HR	MIN	HR	MIN	TIME
	00	47	00	47	00
CTD	JD/TIME		DATA LOCATION		REMARKS
TYPE & SN 92067	DATA ON		Tape/Diskette ID		File Name/Header
PRESS SN 410K-023	START DOWN				
TEMP SN 889	AT DEPTH				
COND SN 530-480	AT SURFACE				
TEMP SN 701/COND 203	PAR		FLUOR		CHAM
					TAPS6
					TAPS4
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1		1503.187	2.1438	2.1446	34.5015
2					34.5144
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4
		WIND DIRN.		WIND SPD.	WIND
		(deg)		(m/s)	(m)
		324		12	72
		SEA STATE		WET BULB	WET BULB
		3		-4.289	-3.7
		PRESSURE		WET BULB	WET BULB
		(mb)		(°C)	(°C)
		38		32	4

2.068

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VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF97-01		DSDP STA 20, HAUL 1	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=054
	DEG	MIN	DEG	MIN	DAY MO YR
0215420.39N	16	94	18	14	W 23 FEB 97
CTD		TIMES		JD/TIME	
TYPE & SN 92067		DATA ON		DATA LOCATION	
PRESS SN 410K-023		START DOWN		Tape/Diskette ID File Name/Header	
TEMP SN 889		AT DEPTH		CSD021	
COND SN -580-480		AT SURFACE			
TEMP SN 701/COND 303	<input type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TAPS6	<input type="checkbox"/> TAPS4
CTD CONVERTED MONITOR VALUES					
POS	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
10	1000	998.672	2.8212		34.3247 *
11	500	500.390	3.5239	3.5243	33.9856
12	300	300.088	3.9757	3.9763	33.6809
13	200	200.537	4.1451	4.1456	33.3824
14	100	100.013	3.5818	3.5814	32.9214
15	75	75.296	3.5599	3.5645	32.9165
16	50	50.744	3.5396	3.5400	32.9131
17	30	NO SAMPLE			
18	20	20.696	3.4683	3.4682	32.9051
19	10	10.627	3.4849	3.4848	32.9076
20	0	1.797	3.4864	3.4888	32.9077
* IN MARK FILE NOT STL FILE					

* IN MARK FILE NOT STL FILE

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAAS MILLER FREEMAN		MF97-01		DSDP STA 21, HAUL 1																	
CONSC CAST #	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DATE	JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
022	5402.36 N	16	9	33.3	4	W	23	FEB	08	37	-0.9	943	83	31	13	87	21800				
CTD		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS									
TYPE & SN 92067		DATA ON																			
PRESS SN 410K-023		START DOWN																			
TEMP SN 889		AT DEPTH																			
COND SN 530-480		AT SURFACE																			
TEMP SN 701/COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4											
MAX. DEPTH = 1503 m																					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1		BOTTLE TRIPPED, BWT NO MARK																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

065596

1.013

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 22 HAUL 1																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR
023	53	47.21	N	169	16.6	23	F	23	W	11	49	20.5	-0.7	964	5	243	13	872	1530		
CTD		TIMES		JD/TIME		DATA LOCATION															
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header													
PRESS SN 410K-023		START DOWN						CTD023													
TEMP SN 889		AT DEPTH																			
COND SN 500-480		AT SURFACE																			
TEMP SN 701/COND 303		PAR		FLUOR		CHAM		TAPS6		TAPS4		MAX. DEPTH = 1450 m									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA															
1	1450	1455.301	2.2122	2.2127	34.4843	SALINITY 34.4975															
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
		SAMPLE BOTTLE NUMBER					SAL. NUTRIENT OTHER														
							28														

First two attempts to fire bottle, not marked by Seagott (bottles did fire)

1.011

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VESSEL		PROJECT & LEG		STATION DESIGNATION																										
NOAAS MILLER FREEMAN		MF97-01		DSDB STA 23, HAUL 1																										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID														
	DEG	MIN	DEG	MIN	DAY												MO	YR	HR	MIN										
02	45	36	34	N	16	02	23	W	23	F	09	14	38	1.0	-0.5	964	5	2	4	1	1	4	8	7	2	1	9	0	6	B57
CTD		TIMES		JD/TIME		DATA LOCATION											REMARKS													
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header																						
PRESS SN 410K-023		START DOWN						CTD024																						
TEMP SN 889		AT DEPTH																												
COND SN 480		AT SURFACE																												
TEMP/COND SN 701/303		<input type="checkbox"/> PAR		<input type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4								MAX. DEPTH = m												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1	1459	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY											SALINITY	SAL.	NUTRIENT	OTHER											
2		1457.121	2.3596	2.3597	34.4509											34.4619	22													
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Leaking hydraulic fluid
Swisslot ditto mark bottle as fixed, marked with LFI

1014

PG 25 OF 38

VESSEL		PROJECT & LEG		STATION DESIGNATION						
NOAAS MILLER FREEMAN		MF97-01		0508 STA 27 HAWAII						
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
025	5322.01N	16843.38W	23 FEB 97	2258	5.0	4.79	147	329	25	386
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS		
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header		CTD NEAR (TMT)		
PRESS SN 410K-023		START DOWN				CTD025		NOT @ MBS 6		
TEMP SN 889		AT DEPTH						377		
COND SN 480		AT SURFACE						MAX. DEPTH = 375		m
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6		TAPS4
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES								
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
1						SALINITY		SAL. NUTRIENT OTHER		
2	300	300.510	3.8329	3.8338	33.5702	33.5846		27		948
3	200	200.130	4.1443	4.1451	33.0578					949
4	150	150.354	4.1277	4.1281	32.9809					950
5	100	100.083	4.1278	4.1284	32.8800					951
6	75	75.644	4.0515	4.0509	32.7235					952
7	50	49.642	3.7752	3.7767	32.4423					953
8	40	39.965	3.7572	3.7574	32.4192					954
9	30	38.676	3.7202	3.7242	32.3985					955
10	20	20.824	3.6991	3.7017	32.3684					956
11	10	10.927	3.6883	3.6890	32.3526					957
12	0	3.579	3.6898	3.6902	32.3525					958

VESSEL		PROJECT & LEG				STATION DESIGNATION					
NOAAS MILLER FREEMAN		MF97-01				JSDR STA 29 HAUL 1					
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=056		TIME (GMT)	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(deg)	(m/s)			(m)	
0275	56.04.00 N	166.19.93 W	25 FEB 97	0000	03.7	0048318	26			120	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS			
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header		CTD after deployment			
PRESS SN 410K-023		START DOWN				CTD027		F-97B5-3			
TEMP SN 889		AT DEPTH				CTD027*		RA SALTEMP BEFIRE TAPAS			
COND SN 480		AT SURFACE				#10min below		SEA SURF TEMP			
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6		TAPS4	
CTD CONVERTED MONITOR VALUES		CTD CONVERTED MONITOR VALUES		CTD CONVERTED MONITOR VALUES		CTD CONVERTED MONITOR VALUES		CTD CONVERTED MONITOR VALUES		CTD CONVERTED MONITOR VALUES	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE DATA		SAMPLE BOTTLE DATA	
1	15	114.725	3.8246	3.8422	32.2223	SALINITY		SALINITY		SALINITY	
2	100	95.570	3.4688	3.4702	32.1802	32.2592		32.2592		32.2592	
3	75	75.622	2.5515	2.5514	31.9805						
4	50	51.153	2.4999	2.4984	31.9039						
5	30	30.122	2.4738	2.4738	31.8976						
6	18	17.997	2.4822	2.4819	31.8963						
7	18	18.033	2.4764	2.4770	31.8965						
8	18	18.069	2.4778	2.4774	31.8966						
9	11	11.158	2.4780	2.4778	31.8969						
10	11	11.329	2.4762	2.4762	31.8969						
11	11	10.965	2.4774	2.4775	31.8970						
12	0	4.705	2.4807	2.4817	31.8967						

VESSEL		PROJECT & LEG		STATION DESIGNATION					
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 30, HALL 1					
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
028	55° 55' 43" N	166° 09' 16" W	JD=056 DAY MO YR 25 FEB 97	HR MIN 02 55	(deg)	(m/s)	* *	(m)	
CTD		TIMES		DATA LOCATION		REMARKS			
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header			
PRESS SN 410K-023		START DOWN				CTD028			
TEMP SN 889		AT DEPTH				10 min @ 60 m			
COND SN 480		AT SURFACE				118 m			
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6	
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TAPS4		MAX. DEPTH = 118 m			
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	15	116.876	4.3756	4.3755	32.6667	SALINITY		SAL.	NUTRIENT
2	100	99.305	4.1710	4.1704	32.4466	32.6194		3	.980
3	75	75.134	2.6612	2.6607	31.8789				.981
4	50	50.895	2.5540	2.5537	31.8659				.982
5	40	40.890	2.5582	2.5581	31.8644				.983
6	30	31.310	2.5569	2.5569	31.8648				.984
7	20	21.654	2.5562	2.5563	31.8647				.985
8	10	11.067	2.5556	2.5555	31.8632				.986
9	0	3.432	2.5551	2.5554	31.8636				.987
10									.988
11									
12									

No 999

VESSEL		PROJECT & LEG		STATION DESIGNATION																
NOAAS MILLER FREEMAN		MF97-01		DSDR STA 31, HALL 1																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=056	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR
029	55	59.04	N	166	35.31	W	25	F	9	7	05	10	3.9	3.0	0.24	83.33	34	*6	136	
CTD		TIMES		JD/TIME		DATA LOCATION														
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header												
PRESS SN 410K-023		START DOWN						CTD029												
TEMP SN 889		AT DEPTH																		
COND SN 480		AT SURFACE																		
TEMP/COND SN 701/303		<input type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHAM		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4		MAX. DEPTH = 124 m								
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY												SAL.	NUTRIENT	OTHER	
1	+5	123.815	4.4780	4.4696	32.6537												24	.990*		
2	100	100.546	4.3861	4.3849	32.5948													.991		
3	25	75.229	3.8343	3.8813	32.2073													.992		
4	50	50.941	2.5621	2.5688	31.8924													.993		
5	40	40.177	2.5619	2.5613	31.8892													.994		
6	30	29.997	2.5620	2.5619	31.8887													.995		
7	20	26.425	2.5608	2.5607	31.8890													.996		
8	10	10.299	2.5610	2.5608	31.8886													.997		
9	0	2.386	2.5604	2.5603	31.8883													.998		
10																				
11																				
12																				

VESSEL		PROJECT & LEG		STATION DESIGNATION						
NOAAS MILLER FREEMAN		MF97-01		JSDP STA 33, HAWAII						
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME (GMT)	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(deg)	(m/s)	*	*	(m)	
0305612.43N	16630.66W	25 FEB 97	0722		345	36	*5		115	
CTD		TIMES		DATA LOCATION		REMARKS				
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header				
PRESS SN 410K-023		START DOWN				CTD030				
TEMP SN 889		AT DEPTH								
COND SN 480		AT SURFACE				109 m				
TEMP/COND SN 701/303		PAR		FLUOR		TAPS6		TAPS4		
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES									
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1 100	99.926	2.9034	2.9018	32.1045	SALINITY		SAL.		NUTRIENT	OTHER
2 75	74.925	2.4809	2.4800	31.9964	32.1242		33		999	
3 50	50.758	2.4220	2.4224	31.9756			1000			
4 40	40.881	2.4437	2.4433	31.9633			1001		✓	
5 30	31.091	2.4634	2.4630	31.9265			1002		✓	
6 20	20.546	2.4614	2.4612	31.9275			1003		✓	
7 10	10.169	2.4624	2.4623	31.9265			1004		✓	
8 0	2.425	2.4618	2.4618	31.9264			1005		✓	
9							1006		✓	
10										
11										
12										

VESSEL		PROJECT & LEG				STATION DESIGNATION																
NOAAS MILLER FREEMAN		MF97-01				DSDR STA 33 HAUL 1																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=056		TIME (GMT)		WIND DIRN. (deg)	WIND SPD. (m/s)	WIND TYPE	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN						
03	15	61	02	N	16	06	34	W	25	F	09	04	44	5.0	4.0	05	57	17	83	21	10	6
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS														
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header																
PRESS SN 410K-023		START DOWN				CYD031																
TEMP SN 889		AT DEPTH																				
COND SN 480		AT SURFACE																				
TEMP/COND SN 701/303		<input type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHLOR		<input type="checkbox"/> TAPS6		<input type="checkbox"/> TAPS4		MAX. DEPTH = 101 m										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER						
1	100 ✓	100.116	2.8734	2.8739	32.1232	SALINITY										SAL.	NUTRIENT	OTHER				
2	75 ✓	26.538	2.8654	2.8651	32.1278											15	501					
3	50 ✓	51.595	2.5058	2.5063	31.9768												502					
4	40 ✓	41.350	2.5003	2.5009	31.9575												503					
5	30 ✓	32.002	2.4994	2.5000	31.9601												504	2				
6	20 ✓	22.511	2.4988	2.4994	31.9535												505	3				
7	10 ✓	12.657	2.4994	2.4999	31.9538												506	4				
8	0 ✓	2.954	2.4991	2.4996	31.9538												507	5				
9																	508	6				
10																						
11																						
12																						

23 37 20

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAAS MILLER FREEMAN		MF97-01		0500 STA 34, HAUL 1											
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME	WET BULB	DRY BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
0325420104N	16525.51W	25.51	25 FEB 97	2346	31.6	31.6	984	7341	22875	160					
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header		Unimak Pass							
PRESS SN 410K-023		START DOWN				CTD032		W → E							
TEMP SN 889		AT DEPTH													
COND SN 480		AT SURFACE						MAX. DEPTH = m							
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6		TAPS4					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA								SAMPLE BOTTLE NUMBER	
1	5	154.634	3.4424	3.4424	32.3471	SALINITY								SAL. NUTRIENT OTHER	
2	100	100.117	3.4054	3.4058	32.3190	32,3623								F 509	
3	75	75.925	3.3017	3.3021	32.2112									510	
4	50	50.246	3.2855	3.2858	32.1730									511	
5	40	40.195	3.2876	3.2881	32.1742									512 ✓	
6	30	29.892	3.2695	3.2698	32.1143									513 ✓	
7	20	20.865	3.2753	3.2768	32.1003									514 ✓	
8	10	10.734	3.2803	3.2808	32.1014									515 ✓	
9	0	4.404	3.2810	3.2814	32.1025									516 ✓	
10														517 ✓	
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAAS MILLER FREEMAN		MF97-01		0608 STA 37, HAUL 1							
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME (GMT)	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
035	54 27.4 N	165 00.77 W	05 FEB 97	0421	293	23	1	56			
CTD		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN 92067		DATA ON		Tape/Diskette ID		File Name/Header					
PRESS SN 410K-023		START DOWN				CTD035					
TEMP SN 889		AT DEPTH									
COND SN 480		AT SURFACE									
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6		TAPS4	
MAX. DEPTH = 53 m											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	NUTRIENT	OTHER	
1	50	50.306	2.6403	2.6407	31.7234	31.7404		20	536	✓	
2	40	40.682	2.6377	2.6374	31.7221				537	✓	
3	30	31.113	2.6322	2.6326	31.7184				538	✓	
4	20	20.900	2.6295	2.6303	31.7172				539	✓	
5	10	9.606	2.6244	2.6249	31.7141				540	✓	
6	0	3.320	2.6264	2.6268	31.7155				541	✓	
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF97-01		DSD8 STA 39, HPOUL	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=
	DEG	MIN	DEG	MIN	DAY MO YR
0375	42	7.9	166	02.1	7W26 FEB 97
CTD		TIMES		JD/TIME	
TYPE & SN 92067		DATA ON			
PRESS SN 410K-023		START DOWN			
TEMP SN 889		AT DEPTH			
COND SN 480		AT SURFACE			
TEMP/COND SN 701/303		<input type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHLOR	<input type="checkbox"/> TAPS6
		<input type="checkbox"/> TAPS4			
MAX. DEPTH = m					
REMARKS					
line NW of					
Dumack Pass					
543 m					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	15 J	538.875	3.5776	3.5776	33.9392
2	300 J	300.801	4.4096	4.4127	33.1222
3	200 J	200.690	4.0765	4.0772	32.7779
4	150 J	150.331	4.0049	4.0056	32.6746
5	100 J	97.677	3.5766	3.5773	32.4792
6	75 J	77.067	3.5621	3.5634	32.4727
7	50 J	49.928	3.5440	3.5436	32.4665
8	40 J	40.749	3.5313	3.5323	32.4615
9	30 J	29.789	3.5151	3.5158	32.4561
10	20 J	20.510	3.5113	3.5119	32.4551
11	10 J	7.428	3.5075	3.5082	32.4543
12	0 J	3.743	3.5095	3.5064	32.4543
		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		SALINITY		SAL.	NUTRIENT OTHER
		34.9499		8	554
					555
					556
					557
					558
					559
					560 1
					561 2
					562 3
					563 4
					564 5
					565 6

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAAS MILLER FREEMAN		MF97-01		DSD8 STA 40 HALL													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	WET BULB (°C)	DRY BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
03854	22.08N	16556.9	4W26	94	057	1149	3.9	6.2	181	22	57		507				
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN 92067		DATA ON				Tape/Diskette ID		File Name/Header									
PRESS SN 410K-023		START DOWN															
TEMP SN 889		AT DEPTH															
COND SN 480		AT SURFACE															
TEMP/COND SN 701/303		PAR		FLUOR		CHAM		TAPS6		TAPS4		MAX. DEPTH = m					
527		527															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA									SAMPLE BOTTLE NUMBER		
1	15	494.167	3.8289	3.8297	33.7749	SALINITY									SAL.	NUTRIENT	OTHER
2	300	300.874	4.3146	4.3148	33.1845										28	566	
3	200	201.559	4.0967	4.0977	32.7757											567	
4	150	149.844	3.9465	3.9472	32.5896											568	
5	100	100.687	3.2849	3.2854	32.3657											569	
6	75	74.010	3.1933	3.1938	32.2283											570	
7	50	51.497	3.3087	3.3089	32.1745											571	
8	40	41.809	3.3200	3.3206	32.1534											572	
9	30	32.411	3.3093	3.3097	32.1333											573	
10	20	20.528	3.3057	3.3063	32.1283											574	
11	10	10.191	3.3052	3.3059	32.1272											575	
12	0	4.263	3.3043	3.3049	32.1276											576	