

1 3 5 7 11 13 14 15 16 17 18 19

VESSEL				PROJECT & LEG				STATION DESIGNATION				DSD8 I.D.																	
NOAA Ship MICHELLE FREEMAN				KNO313				KNO313																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
003		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
PAR		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
WETSTAR		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
FIRE		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
DEPTH		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
SEQ.		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
1		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
2		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
3		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
4		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
5		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
6		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
7		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
8		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
9		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
10		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
11		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383		3		3		262		262		134		A 13			
12		58 26.57		151 20.18		14 5 10 3		06 44		11.4		11.4		16383															

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION															
NOAA Ship MILLER FREEMAN		ME03-02 Km 313																			
CONSC CAST #	27.36	08.59		0744		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	*	*	*	*	*	(m)			
45	27	15	09	14	SEP	2003	07	44	11.8	11.8	34	35	6	2			97				
PAR	WETSTAR	SEAPoint FL		TIMES		JD/TIME		REMARKS													
FIRE		ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		SAMPLE COMMENTS:											
SEQ.	DEPTH																				
1	100	1		4		29															
2	75	3				30															
3	50	5				31		283													
4	30	9				32															
5	20	11				33		281													
6	10	13				34		281													
7	0	14				35		283													
8																					
9																					
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24																					

VESSEL NOAA Ship MILLER FREEMAN				PROJECT & LEG MED3-02 KMP313				DSDB I.D.				STATION DESIGNATION AP005																			
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(m/s)	(deg)	(m/s)	(m)	(m)	(deg)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
0105	58	28	128	N	150	56	827	W	09	10	11	0	0	15	33	304	73	AP005													
REMARKS																															
start down 0908																															
DATA ON 0906																															
JD/TIME																															
SEAPoint FL																															
WETSTAR																															
FIRE																															
DEPTH																															
DESIRE																															
1 68																															
2 50																															
3 30																															
4 20																															
5 10																															
6 0																															
7																															
8																															
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24																															

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN		MP03-02 Km 313																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	*	*	*	*	*	(m)				
58 28.920		150 45.141		14	SEP	03	10	21	11.0	8.5	299	2.2						88	AP0016			
PAR	SEAPOINT FL		TIMES		JD/TIME		REMARKS															
WETSTAR	DATA ON		SALT		NUTRIENTS		CHL. VOL.															
FRED SEQ.	ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.															
1	83	1	5	42																		
2	75	3		43																		
3	50	5		44																		
4	40	9		45																		
5	30	11		46																		
6	20	13		47																		
7	10	14		48																		
8	0	15		49																		
9																						
10																						
11																						
12																						
13																						
14																						
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16																						
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18																						
19																						
20																						
21																						
22																						
23																						
24																						

Slight leaker

VESSEL NOAA Ship MILLER FREEMAN			PROJECT & LEG 185555 Km 8313			DSD8 I.D.			STATION DESIGNATION GP 23/90360																								
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)																	
58 45		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
0075		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
PAR		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
WEISTAR		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
FIRE		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
DEPTH		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
DESIRED		150 50		150 50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
1		175		175		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
2		150		150		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
3		125		125		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
4		100		100		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
5		75		75		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
6		50		50		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
7		30		30		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
8		20		20		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
9		10		10		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
10		0		0		14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
11						14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
12						14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
13						14	08	03	12	50	11.0	9.0	1.5	305	18	170																	
14						14	08	03																									

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		55.97		2123		57.47		2123		57.47		2123		57.47	
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.	
DEG MIN		DEG MIN		DEG MIN		DAY MO YR		HR MIN		WET BULB		WIND DIRN.		WIND SPD.	
09	58	57	54	56	54	15	4	5	4	3	2	1	2	4	2
PAR	WETSTAR	SEAPOINT FL	DATA ON	REMARKS											
FIRE		ROSETTE POSITION		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:									
SEQ. DESIRED		SALT		NUTRIENTS		CHL. VOL.		OTHER							
1	143	1		8											
2	15	3				281									
3		5													
4		9													
5		11													
6		13													
7		14													
8		15													
9															
10															
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22															
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Pre pick-up calibration

VESSEL		PROJECT & LEG		STATION DESIGNATION	
R/V Kilo Moana		KM0313		KEL	
Start 59 06.527N and 59 06.440 CONSC CAST #		152 09.309W 152 09.057W			
LATITUDE DEG MIN		LONGITUDE DEG MIN			
01 359 06.49N		152 09.21W			
DATE ID=		DAY MO YR			
01 359 06.49N		15 32 03			
TIME DATA ON		TIME (GMT) HR MIN			
01 359 06.49N		13 36 11.0			
WETSTAR SEAPoint FL		DRY BULB (°C)			
01 359 06.49N		9.525			
WIND DIRN. (deg)		WIND SPD. (m/s)			
356		21			
VISIBILITY *		SEA STATE *			
1		2			
CLOUD (amt) *		WEATHER *			
1		*			
BOTTOM DEPTH (m)		MAX DEPTH			
159		156			
REMARKS					
Sample Comments:					
Flow SE					
Bottle 15 Leaker					
Sample Bottle Number					
SALT		NUTRIENTS		CHL. VOL.	
10		23		24	
25		26		27	
28		29		30	
31		32		33	
34		35		36	
37		38		39	
40		41		42	
43		44		45	
46		47		48	
49		50		51	
52		53		54	
55		56		57	
58		59		60	
61		62		63	
64		65		66	
67		68		69	
70		71		72	
73		74		75	
76		77		78	
79		80		81	
82		83		84	
85		86		87	
88		89		90	
91		92		93	
94		95		96	
97		98		99	
100		101		102	
103		104		105	
106		107		108	
109		110		111	
112		113		114	
115		116		117	
118		119		120	
121		122		123	
124		125		126	
127		128		129	
130		131		132	
133		134		135	
136		137		138	
139		140		141	
142		143		144	
145		146		147	
148		149		150	
151		152		153	
154		155		156	
157		158		159	
160		161		162	
163		164		165	
166		167		168	
169		170		171	
172		173		174	
175		176		177	
178		179		180	
181		182		183	
184		185		186	
187		188		189	
190		191		192	
193		194		195	
196		197		198	
199		200		201	
202		203		204	
205		206		207	
208		209		210	
211		212		213	
214		215		216	
217		218		219	
220		221		222	
223		224		225	
226		227		228	
229		230		231	
232		233		234	
235		236		237	
238		239		240	
241		242		243	
244		245		246	
247		248		249	
250		251		252	
253		254		255	
256		257		258	
259		260		261	
262		263		264	
265		266		267	
268		269		270	
271		272		273	
274		275		276	
277		278		279	
280		281		282	
283		284		285	
286		287		288	
289		290		291	
292		293		294	
295		296		297	
298		299		300	
301		302		303	
304		305		306	
307		308		309	
310		311		312	
313		314		315	
316		317		318	
319		320		321	
322		323		324	
325		326		327	
328		329		330	
331		332		333	
334		335		336	
337		338		339	
340		341		342	
343		344		345	
346		347		348	
349		350		351	
352		353		354	
355		356		357	
358		359		360	
361		362		363	
364		365		366	
367		368		369	
370		371		372	
373		374		375	
376		377		378	
379		380		381	
382		383		384	
385		386		387	
388		389		390	
391		392		393	
394		395		396	
397		398		399	
400		401		402	
403		404		405	
406		407		408	
409		410		411	
412		413		414	
415		416		417	
418		419		420	
421		422		423	
424		425		426	
427		428		429	
430		431		432	
433		434		435	
436		437		438	
439		440		441	
442		443		444	
445		446		447	
448		449		450	
451		452		453	
454		455		456	
457		458		459	
460		461		462	
463		464		465	
466		467		468	
469		470		471	
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475		476		477	
478		479		480	
481		482		483	
484		485		486	
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496		497		498	
499		500		501	
502		503		504	
505		506		507	
508		509		510	
511		512		513	
514		515		516	
517		518		519	
520		521		522	
523		524		525	
526		527		528	
529		530		531	
532		533		534	
535		536		537	
538		539		540	
541		542		543	
544		545		546	
547		548		549	
550		551		552	
553		554		555	
556		557		558	
559		560		561	
562		563		564	
565		566		567	
568		569		570	
571		572		573	
574		575		576	
577		578		579	
580		581		582	
583		584		585	
586		587		588	
589		590		591	
592		593		594	
595		5			

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313				DSDB I.D.		STATION DESIGNATION															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		(deg)		(m/s)		*		*		(m)			
.638		.428		15220		15 SEP 03		1748		.		345		15						121		SEA	
PAR		SEAPoint FL		TIMES		JD/TIME		REMARKS															
WETSTAR		DATA ON		SALT		NUTRIENTS		CHL. VOL.		SAMPLE COMMENTS:													
FIRED DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		OTHER													
SEQ. DESIRED		1		F		57				Very interesting Fluorescence profiles													
1		3		F		58																	
2		5		F		59		✓283															
3		9		F		60		✓249															
4		11		F		61		✓281															
5		13		F		62		✓283															
6		14		F		63		✓281		120m													
7																							
8		0																					
9																							
10																							
11																							
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VESSEL		PROJECT & LEG		VESSEL I.D.		STATION DESIGNATION															
R/V Kilo Moana		KM0313																			
CONSC CAST #	58 46.992 start 58 46.980	152 21.795 58 46.980		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	*	*	*	*	(m)				
018	58	46	98	15	08	2013	18	42	18	42	34	02	3				134			SE0002	
PAR	018	018		JD/TIME		REMARKS															
WETSTAR	018	018		DATA ON		SAMPLE BOTTLE NUMBER															
FIRE	DEPT	ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		OTHER											
SEQ.	DEPT	1		12		6.1															
1	80	3				65															
2	100	5				66															
3	75	9				67															
4	50	11				68															
5	30	13				69															
6	20	14				70															
7	10					71															
8	0																				
9																					
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VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB ID.		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE ID=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID											
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(deg)		(m/s)		* * *		* * *		(m)			
4	2	5	8																														
PAR		SEAPOINT FL		TIMES		JD/TIME		REMARKS		SAMPLE COMMENTS:																							
WETSTAR		DATA ON		ROSETTE POSITION		SALT		NUTRIENTS		CHL VOL		OTHER																					
FIRE		DEPTH		1				9.4																									
SEQ.		DESIRED						7.7																									
1								4																									
2								3																									
3								6																									
4								4																									
5								4																									
6								4																									
7																																	
8																																	
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22																																	
23																																	
24																																	

Calibration (pre pick up)
for 36 B12a

VESSEL R/V Kilo Moana		PROJECT & LEG KW0313				DSD8 I.D.		STATION DESIGNATION																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN					
128	59	02.90	N	148	41.55	W	16	S	E	P	0	3	13	21	10	00	7.5	2028	126	1	4	0	233	685
PAR	SEAPOINT FL <input checked="" type="checkbox"/>		TIMES		JD/TIME		REMARKS																	
WETSTAR <input checked="" type="checkbox"/>	DATA ON		ROSETTE POSITION		SAMPLE BOTTLE NUMBER		SALT		NUTRIENTS		CHL. VOL.		OTHER											
FRED SEQ.	DEPTH DESIRED																							
1	Bot																							
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
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17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

Calibration of 3GB5a
 Deployed drifter # 37506
 Lat 59 2.842 N
 Long 148 41.060 W
 time 13:41
 Bottom depth in lat 233m depth on
 Budget 151 meters. Bottom meter said ~ 0.22m
 Stopped CTD @ depth of 187 meters.

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION GB4A																
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN											
0245907.752	148	45	24	148	45	24	14	36	10	03	14	36	7.5	20.28	2	8	1	1	0	0	147	GB4A
PAR	SEAPOINT FL <input type="checkbox"/>			JD/TIME down 1429			TIMES DATA ON		REMARKS		SAMPLE COMMENTS:											
WETSTAR	SEAPoint FL <input type="checkbox"/>			SALT			NUTRIENTS			CHL. VOL.			OTHER									
FIRED SEQ.	ROSETTE POSITION			SALT			NUTRIENTS			CHL. VOL.			OTHER									
1	Bot			141																		
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
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22																						
23																						
24																						

VESSEL R/V Kilo Moana						PROJECT & LEG KM0313							DSDB I.D.				STATION DESIGNATION																		
CONSC CAST #		LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
PAR	WETSTAR	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC	(°C)	(mb)	*	*	*	*	*	*	(deg)	(m/s)	*	*	*	*	*	*	(m)					
025	916	81	N	148	57	.33	W	15	S	E	P	03	16	08	10	.5	9.8	20	2	8	22	6	22	20	18	2	G03	MAX DEPTH	177						
REMARKS																																			
Get double nutrient sample @ 16 meter																																			
for calibration of mooring nitrate meter																																			
pre-pickup calib like 3GB3																																			
FIRE	DEPTH																																		
SEQ.	DESIR																																		
1	16m																																		
2	16m																																		
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
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VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION																	
CONSC CAST #		LATITUDE 16.49		LONGITUDE 57.89		DATE JD=		TIME (GMT) 0458		WET BULB (°C)		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID 6838	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		WET BULB (°C)		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID			
026	59	16	54	N	14	8	57	77	W	17	3	0	3	0458	12.7	13	18	071	192	61	185	6838	
PAR		SEAPOINT FL		TIMES		JD/TIME		REMARKS		DRY BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)	
								Drifter 36254 at 0527 132p 2003		56 16.44N		148 57.54W											
FIRE		DEPTH		ROSETTE POSITION		SAMPLE BOTTLE NUMBER		OTHER		SALT		NUTRIENTS		CHL. VOL.									
SEQ.		DESIR																					
1	180	✓	1																				
2	150	✓	3																				
3	125	✓	5																				
4	100	✓	9																				
5	75	✓	11																				
6	50	✓	13																				
7	30	✓	14																				
8	20	✓	15																				
9	10	✓	16																				
10	0	✓	17																				
11																							
12																							
13																							
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20																							
21																							
22																							
23																							
24																							

Calibration cast for 3613MB
Post deployment

I forgot to filter them

We did not do 16m

VESSEL						PROJECT & LEG							STATION DESIGNATION														
R/V Kilo Moana						KM0313							DSDB I.D.														
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME GMT		WET BULB		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	*	*	(m)				
427	59	11	54	N	148	36	14	W	17	S	E	P	0	3	07	44								128			
PAR																											
WETSTAR																											
FIRE	DEPTH																										
SEQ.	DESIRED																										
1	123																										
2	144																										
3	75																										
4	60																										
5	40																										
6	20																										
7	10																										
8	0																										
9																											
10																											
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23																											
24																											

VESSEL	PROJECT & LEG						STATION DESIGNATION																			
R/V Kilo Moana	KM0313						ATB1																			
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=		TIME (GMT)		DY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/D				
DEG MIN SEC	DEG MIN SEC	MIN	SEC	DEG MIN SEC	MIN	SEC	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	* * *	(deg)	(m/s)	*	*	*			(m)					
PAR								JT/TIME	REMARKS																	
WETSTAR	SEAPoint FL							TIMES	DATA ON																	
FIRE	ROSETTE POSITION							SAMPLE BOTTLE NUMBER	SAMPLE COMMENTS:																	
SEQ.	SALT							NUTRIENTS	CHL. VOL.	OTHER																
1	1									14																
2	3									15																
3	5									16																
4	9									17																
5	11									18																
6	13									19																
7	14							F 20																		
8	15							F 21																		
9	16							22																		
10																										
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23																										
24																										

VESSEL R/V Kilo Moana		PROJECT & LEG KMO313		DSD8 I.D.		STATION DESIGNATION G05/GAK661A7B2														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												
029	59	02.48	N	146	41.4	W	17	S	E	P	03	09	10							
PAR	REMARKS																			
WETSTAR	TIME 8																			
SEAPoint FL	DATA ON																			
FIRE	DEPTH	ROSETTE POSITION		SAMPLE BOTTLE NUMBER		CHL. VOL.		SAMPLE COMMENTS:												
SEQ.	DESIRED			SALT	NUTRIENTS															
1	001	1		16	23															
2	175	3			24															
3	150	5			25															
4	175	7			26															
5	100	9			27															
6	75	11			28															
7	50	13			29	283														
8	40	14			30															
9	20	15		18	31															
10	20	19		18	32	281														
11	10	20		18	33	283														
12	0	21		18	34	281														
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

DOESN'T MATCH

.641 FILE

DEPTH READINGS

PER BOTTLE

ROSETTE BOTTLE #7 WAS NEVER
FIRED ACCORDING TO "cxd029.641" FILE

X
125
100
75
50
40

Bridge Reports Strong Southward current on this line
 Confirmed by greater speed over ground for same # turns
 Bottom current at 1.0 knots

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	VISIBILITY	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
020	58	57	49	17	10	03	10	14					80	15				2	48	ATB3			
<div> <div>PAR</div> <div>WETSTAR</div> <div>SEAPOINT FL</div> <div>TIMES</div> <div>DATA ON</div> <div>JD/TIME</div> <div>REMARKS</div> </div>																							
FIRE SEQ.		DEPTH DESIRED		ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		SAMPLE COMMENTS:											
1	Bot 242			1		17	35																
2	225			3			36																
3	200			5			37																
4	175			9			38																
5	150			11			39																
6	125			13			40																
7	100			14			41																
8	75			15			42																
9	50			16			43																
10	40			18			44																
11	30			19			45																
12	20			21			46																
13	10			22			47																
14	0			23																			
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							

[illegible]

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION ATB6/G8-12																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 260		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		WIND TYPE		WIND WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG MIN		DEG MIN		DEG MIN		DAY MO YR		HR MIN		WET BULB (°C)		WIND DIRN. (deg)		WIND SPD. (m/s)		WIND TYPE		WIND WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
033		42.15		148.51		5 W 17		1353		.		075		24		2		210		ATB606			
PAR		TIME ON 1347		JD/TIME ON 1347		start 1345		REMARKS															
WETSTAR		SEAPOINT FL		TIMES		DATA ON																	
FREQ. DESIRED		ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		OTHER													
1 Bot		1				75																	
2 175		3				76																	
3 150		5				77																	
4 125		9				78																	
5 100		11				79																	
6 75		13				80																	
7 50		14				81		✓ 283															
8 30		15				82																	
9 20		16				F 83		✓ 281															
10 10		18				F 84		✓ 283															
11 0						F 85		✓ 281															
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							

SAMPLE COMMENTS:
Seas picking up, stopped @ 200m, 10m above bottom

[illegible]

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		260 BOTTOM DEPTH (m)		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	(deg)	(m/s)	*	*	*	*					
43	59	50	04	28	03	00	12	00	7.8	12.0	100	13	6	2									
<div> <div>PAR</div> <div>WETSTAR</div> <div>SEAPOINT FL <input type="checkbox"/></div> <div>DATA ON</div> </div>																							
<div> <div>DEPTH DESIRED</div> <div>ROSETTE POSITION</div> <div>SAMPLE BOTTLE NUMBER</div> <div>SALT</div> <div>NUTRIENTS</div> <div>CHL. VOL.</div> <div>OTHER</div> </div>																							
1	263	✓	1																				
2	225	✓	3																				
3	200	✓	5																				
4	175	✓	9																				
5	150	✓	11																				
6	125	✓	13																				
7	100	✓	14																				
8	75	✓	15																				
9	50	✓	16																				
10	30	✓	18																				
11	20	✓	19																				
12	10	✓	20																				
13	0	✓	21																				
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							

#1 Bottle did not fire - hung up on group in Rosette? Assumed rest of Bottles in proper sequence.

#3 bottle slight leak.

REMARKS

SAMPLE COMMENTS:

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSD8 I.D.		STATION DESIGNATION <i>GAK li</i>																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	(m/s)	*	*	*	*	(m)			
037	59	45	18	9	23	14	9	20	03	04	22	11	05	07	16	08	02			257			
PAR		SEAPOINT FL		TIMES		JD/TIME		REMARKS		13 bottles has problems													
WETSTAR				DATA ON																			
FREQ SEQ.	DEPTH DESIRED	ROSETTE POSITION		SALT		NUTRIENTS		CHL. VOL.		SAMPLE COMMENTS:													
1	252	1				17																	
2	225	3				18																	
3	200	5				19																	
4	175	9				20																	
5	150	11				21																	
6	100	13/14				22																	
7	75	15				23																	
8	50	16				24																	
9	30	18				25 F																	
10	20	19				26 F																	
11	10	24				27 F																	
12	10	21				28 F																	
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		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		(mb)		*		*		(m)					
0449		5932.44		814911.57		24		24		SEP		2013		0538		10.0		7.2		00.4		048		045		30		8		215		G32A	
PAR		<input checked="" type="checkbox"/>		SEAPoint FL		<input checked="" type="checkbox"/>		JD/TIME		5:29		5:30		REMARKS																			
WETSTAR		<input checked="" type="checkbox"/>		DATA ON		TIMES		SALT		NUTRIENTS		CHL. VOL.		OTHER																			
FIRE		DEPTH		ROSETTE POSITION		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:																									
SEQ.		DESID																															
1		Bot		1		23		51																									
2		175		3		52																											
3		150		5		53																											
4		125		9		54																											
5		100		11		55																											
6		75		13		56																											
7		50		14		57																											
8		30		15		58																											
9		20		16		59																											
10		10		18		60																											
11		0		19		61																											
12																																	
13																																	
14																																	
15																																	
16																																	
17																																	
18																																	
19																																	
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23																																	
24																																	

9275

VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION															
CONSC CAST #		28.94		07.24		DATE JD- 263		0649		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		263		STA. NAME/ID	
DEG		MIN		LATITUDE		DEG		MIN		LONGITUDE		DAY		MO		YR		TIME (GMT)		HR	
159		28		94		N		14		9		24		W		26		3		0659	
PAR		WETSTAR		SEAPOINT FL		TIMES		JD/TIME		REMARKS		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.	
WETSTAR		SEAPOINT FL		DATA ON		ROSETTE POSITION		SALT		NUTRIENTS		CHL VOL.		OTHER		WET BULB		DRY BULB		WET BULB	
DEPTH DESIRE		198		1		62		63		64		65		66		67		68		69	
2		175		3		70		71		72		73		74		75		76		77	
3		150		5		78		79		80		81		82		83		84		85	
4		125		9		86		87		88		89		90		91		92		93	
5		100		11		94		95		96		97		98		99		100		101	
6		75		13		102		103		104		105		106		107		108		109	
7		50		14		110		111		112		113		114		115		116		117	
8		30		15		118		119		120		121		122		123		124		125	
9		10		16		126		127		128		129		130		131		132		133	
10		10		18		134		135		136		137		138		139		140		141	
11		0		19		142		143		144		145		146		147		148		149	
12						150		151		152		153		154		155		156		157	
13						158		159		160		161		162		163		164		165	
14						166		167		168		169		170		171		172		173	
15						174		175		176		177		178		179		180		181	
16						182		183		184		185		186		187		188		189	
17						190		191		192		193		194		195		196		197	
18						198		199		200		201		202		203		204		205	
19						206		207		208		209		210		211		212		213	
20						214		215		216		217		218		219		220		221	
21						222		223		224		225		226		227		228		229	
22						230		231		232		233		234		235		236		237	
23						238		239		240		241		242		243		244		245	
24						246		247		248		249		250		251		252		253	

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VESSEL R/V Kilo Moana						PROJECT & LEG KMO313							DSDB I.D.			STATION DESIGNATION CH043											
CONSC CAST #		LATITUDE			LONGITUDE			DATE JD= 263			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
		DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC														
PAR	<input checked="" type="checkbox"/>	43	59	15	.65	N	14	8	54	.87	W	20	S	E	P	03	09	57	9.0	8.5	976	0	12	30	6	167	GAK5
WETSTAR	<input checked="" type="checkbox"/>																									MAX DEPTH 157	
FIRE	DEPTH DESIRED	SEQ																									
1	157																										
2	125																										
3	106																										
4	75																										
5	50																										
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VESSEL R/V Kilo Moana		PROJECT & LEG KMO313		DSDB I.D.		STATION DESIGNATION 6P1/1045															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=263		TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO														YR	
455908	15	05	9	37	20	SEP	03	16	52	9.0	6.49	7.6	7	3	4	0	7	2	1	70	6P1
PAR	REMARKS																				
WETSTAR	SAMPLE COMMENTS:																				
FREQ SEQ.	DEPTH DESIRED	ROSETTE POSITION		SAMPLE BOTTLE NUMBER		NUTRIENTS		CHL VOL.	OTHER												
1	160	1				99															
2	125	3				100															
3	100	5				101															
4	75	9				102															
5	50	11				103															
6	30	13				F 104															
7	20	14				F 105															
8	10	15				F 106															
9	0	16				F 107															
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VESSEL R/V Kilo Moana						PROJECT & LEG KM0313							DSD8 I.D.				STATION DESIGNATION GP21047																				
CONSC CAST #		LATITUDE			LONGITUDE			DATE JD= 263			TIME (GMT)			DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG	MIN	N	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	(m)												
PAR	47	59	00	57	N	150	57	.63	W	20	S	E	P	O	3	1	8	2	5	6	1	9	7	6	7	3	0	2	7	8	7	2	1	5	8	GP2	
WETSTAR	<input checked="" type="checkbox"/>																																				
FIRE	DEPTH																																				
SEQ.	DESIR																																				
1	147																																				
2	125																																				
3	100																																				
4	75																																				
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VESSEL R/V Kilo Moana		PROJECT & LEG KM0313		DSDB I.D.		STATION DESIGNATION																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME		TIME (GMT)		WET BULB		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	*	(m)				
495805.00N		14904.22W		22		20	SEP	03	04	20	10.5	8.8	12	8	3	00	20	1	0	0	0	81	81	STAID			
PAR		SEAPOINT FL		TIMES		JD/TIME		REMARKS		SAMPLE COMMENTS:																	
WETSTAR		ROSETTE POSITION		SALT		SAMPLE BOTTLE NUMBER		OTHER																			
FIRE		DEPTH		SALT		NUTRIENTS		CHL VOL.																			
SEQ.		DESIRED		SALT		NUTRIENTS		CHL VOL.																			
1	00	1	135																								
2	50	3	136																								
3	30	5	137																								
4	20	9	138																								
5	10	11	139																								
6	0	13																									
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VESSEL KLOWANA NDA-Ship Miller-Freeman		PROJECT & LEG MP09-02 KM 0313		DSDB I.D.		STATION DESIGNATION STA 053																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
053		57 56.99 N		149 28.27 W		2003		08 37		7.0		155		5		5		305		18		2		189		STA 053			
PAR		X		X		X		X		X		X		X		X		X		X		X		X		X			
WEI STAR		0		0		0		0		0		0		0		0		0		0		0		0		0			
FRED		0		0		0		0		0		0		0		0		0		0		0		0		0			
SEQ.		1		2		3		4		5		6		7		8		9		10		11		12		13		14	
1		181		150		125		100		75		50		30		20		10		0									
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SAMPLE COMMENTS:

REMARKS