VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF03-02		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) 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
	24.94			43.50						0400		56F										167	
001	58	24.92	N	151	43.48	W	14	5	03	04	18	13.5	.		3	8	307	24	2	6	2		API

PAR	WETSTAR	SEAPOINT FL.	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓				

	FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1	164 ✓	1	1	1			
3	2	150 ✓	3		2			
5	3	125 ✓	5		3			
9	4	100 ✓	9		4			
11	5	75 ✓	11		5			
13	6	50 ✓	13		6			
14	7	30 ✓	14		7			
15	8	20 ✓	15		8			
16	9	10 ✓	16		9			
17	10	0	17		10			
18	11							
19	12							
	13							
	14							
	15							
	16							
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	23							
	24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
~~NOAA Ship~~ MILLER FREEMAN KILO MOANA	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD- DAY	MO	YR	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
	25.68			31.85						0527												165	
44	25	8 25.65	N	151	31.88	W	14	SEP	43	05	30	11.4	12.0	1638	3	1	8	23	2	6	2	165	AP2

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	160 ✓	1	2	11			
2	150 ✓	3		12			
3	125 ✓	5		13			
4	100 ✓	9		14			
5	75 ✓	11		15			
6	50 ✓	13		16	283 ✓		
7	30 ✓	14		17			
8	20 ✓	15		18	281 ✓		
9	10 ✓	16		19	281 ✓		
10	0 ✓	17		20	283 ✓		
11		~~18~~		~~21~~			
12		~~19~~		~~22~~			
13							
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oxygen on V0

PG ___ OF ___

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
KILO MOANA ~~NOAA Ship MILLER FREEMAN~~	~~MF05-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD- DAY	MO	YR	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
003	58	26.57 N	151	20.18 W	145	E	A	06	44	11.0	11.4	16	3	8	307	30	2	6	2	130	A A3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓				Wetstar replaced dissolved O2 sensor	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	124 ✓	1	3	21			
2	100 ✓	3		22			
3	75 ✓	5		23			
4	50 ✓	9		24	283 ✓		
5	30 ✓	11		25			
6	20 ✓	13		26	281 ✓		
7	10 ✓	14		27	281 ✓		
8	5	15		28	283 ✓		
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~M503-02~~ km0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	27.36			08.59						0744												97	
0	0	4	58	27.41	N	151	09.03	W	14	SEP	03	0758	11.8	11.0	15	4	7	300	35	3	6	2 98	AP4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	100 ✓	1	4	29			
2	75 ✓	3		30			
3	50 ✓	5		31	✓ 283		slight leaker
4	30 ✓	9		32			
5	20 ✓	11		33	✓ 281		
6	10 ✓	13		34	✓ 281		
7	0	14		35	✓ 283		
8							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~ME03-02~~ km#313		AP005

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
005	58	28.205	N	150	56.911	W	14	Sep	03	09	12	11.0	9.0	15			304	33				73	AP005

58 28.128N 150 56.827W

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON 0906	start down 0908		73

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	68	1	None	36			
2	50	3		37			
3	30	5		38			
4	20	9		39			slight Leaker
5	10	11		40			
6	0	13		41			
7							
8							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MP03-02~~ Km 0313		

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	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
006	58 28.958	150 45.32	14 Sep 03	10 21	11.0	8.5	15			299	22				88	AP006

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		Start 1017 Bottom 1018		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	83	1	5	42			
2	75	3		43			
3	50	5		44			
4	40	9		45	✓ 279		Slight leaker
5	30	11		46			
6	20	13		47	✓ 281		
7	10	14		48	✓ 281		
8	0	15		49	✓ 283		
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MP03-02~~ km0313		GP7B/gp36a

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
007	58	45.047	150	52.509	14	Sep	03	12	50	11.0	9.0	15			305	18				178	GP006

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 12:41 down 12:42		188

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	175	1	6	50			
2	150	3		51			Pre pickup
3	125	5		52			
4	100	9		53			
5	75	11		54			
6	50	13		55			
7	30	14		56			
8	20	15		57			
9	10	16		58			
10	0	17		59			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
008	59	5.97	N	150	59.82	W	14	Sep	03	1534		.	.	16			302	14				163	SP001

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓				161	159

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	7				Calibration Prepickup
2	15				281		for
3							
4							LP32a
5							
6							
7	15						
8							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~[illegible]~~ tmd313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	57.47			55.97						2123												148	GP34A
009	58	57.50	N	150	56.09	W	145	E	P03	21	26	12.5	.	1738	340	20	1	6	1		146	GP34	

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	143	1	8				
2	15	3			281		Pre pick-up calibration
3		5					
4		9					
5		11					
6		13					
7		14					
8		15					
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MFGS-02~~ Km 0313		KE1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
014	59	14.044	152	02.124	15	Sep	03	10	25	11.0	8.5	24			356	27				84	KE001

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		On 1022 Down 1023		85

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		1			
2	50	3		2			
3	30	5		3			
4	20	9		4			
5	10	11		5			
6	0	13		6			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		KE2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
011	59	11.84	N	152	04.64	W	15	Sep	03	11	34	11.0	9.0				357	24				95	KE002

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON	On 1130 Down 1130	98	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	9	7			1.5 Knots ship speed w/o RPM on
2	75	3		8			engines
3	50	5		9			
4	30	9		10			Tidal current to strong to do station
5	20	11	F	11			at Time of arrival - 1100
6	10	13	F	12			
7	0	14		13			filtering nutrient samples in first 3 Bottles
8							
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		KE3

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= (DAY MO YR)	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
012	surface 59 08.234 N	surface 152 07.174 W	15 Sep 03	1244	10.0	9.5	25			351	24				158 157	KE003

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 1239 start 1239		158

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		14			Surface cond. are for upcast
2	125	3		15			
3	100	5		16			Upcast interesting too
4	75	9		17			
5	50	11		18			
6	30	13		19			
7	20	14		20			
8	10	15		21			
9	0	16		22			
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9 oum = 3x

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		KE4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
Start and 013	59	06.527	N	152	09.309	W	15	Sep	03	13	36	11.0	9.5	25			356	21				159	KE004
	59	06.440		152	09.057	W																	

PAR		TIMES	JD/TIME
WETSTAR	SEAPOINT FL	DATA ON	on 1329 start 1330

REMARKS: 159

MAX DEPTH: 156

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	10	23			flow SE
2	125	3		24			
3	100	5		25			Bottle 15 leaker
4	75	9		26			
5	50	11		27			
6	30	13		28			
7	20	14		29			
8	10	15		30			
9	0	16		31			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	3.594			12.14						1852								kts					
014	5903.43		N	15211.94		W	15	SEP	03	14	28	9.5	9.0	253			343	23				134	KE5

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		32			Bottle 14 had sample cock open
2	100	3		33			
3	75	5		34			Bottle 15 Did not leak
4	60	9		35			
5	40	11		36			
6	30	13		37			
7	20	14		38			
8	10	15		39			
9	0	16		40			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	~~(m/s)~~ KTS WIND SPD.	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1.123			14.33																			
015	59	00.88	N	152	14.13	W	15	09	03	15	14	.	.	26			345	24				112	KE6

PAR	✓		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL. ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	106	1	~~41~~	41			
2	100	3		42			
3	80	5		43			
4	60	9		44			
5	40	11		45			
6	30	13		46			
7	20	14		47			
8	10	15		48			
9	0	16		49			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
016	58	59.01	N	152	17.97	W	15	SEP	03	16	00	.	.	26			000	24				81	KE7

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	11	50			
2	60	3		51			
3	40	5		52			
4	30	9		53			
5	20	11		54			
6	10	13	F	55			
7	0	14		56			
8							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
01	58	49.67 N	152	20.45 W	15	Sep	03	17	48	.	.	26			345	15					SE1

.638 .428

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL	DATA ON	start 1743	121	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	F	57			Very interesting Fluorescence profiles
2	75	3	F	58			
3	60	5	F	59	✓283		
4	40	9	F	60	✓279		
5	20	11	F	61	✓281		
6	10	13	F	62	✓283		
7	0	14	F	63	✓281		leak
8	0						
9							
10							
11							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		SE2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
start 018	58	46.992 .980 N	152	21.795 .789 W	15	Sep	03	18	42	.	.	26			340	23				134	SE002

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 1836 down 1837	134	130

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	12	64			
2	100	3		65			
3	75	5		66			
4	50	9	F	67			Slight Leak
5	30	11	F	68			
6	20	13	F	69			
7	10	14	F	70			
8	0			71			
9							
10							
11							
12							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		SL3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
019	58	44.58	N	152	22.61	W	15	Sep	03	19	27	.	.	25			350	27				119	SL003

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL ✓	DATA ON	on 1923 down 1924	119	114

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		72			mixed to 75 meters - fl
2	75	3		73			
3	50	5	F	74			
4	30	9	F	75			
5	20	11	F	76			
6	10	13	F	77			
7	0			78			
8							
9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
02	58	42.30	N	152	23.82	W	15	Sep	03	20	13	10.0	.	25	3	8	340	23	0	0	0	151	SE4

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	147	1	13	79			
2	125	3		80			
3	100	5		81			
4	75	9		82			
5	50	11		83			
6	30	13		84 F			
7	20	14		85 F			
8	10	15		86 F			
9	0	16		87 F			
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
01	58	40.12	N	152	25.32	W	15	SEP	03	21	00	10.2	.	25	3	8	352	20	0	0	0	83	5E5

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	72	1		88			
2	50	3		89			
3	30	5		90			
4	20	9		91F			
5	10	11		92F			
6	0	13		93			
7							
8							
9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
022	58	.	N	148	.	W	16	SEP	03			.	.				204	3				193	GB12

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1							
2							Calibration (pre pick up)
3							for GB12a
4							
5							
6							
7							
8							
9							
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
023	59	02.90	N	148	41.55	W	16	SEP	03	13	21	10.0	7.5	20	2	8	120	1	4	4	0	233	GB5

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		on 1319	228	188

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot		~~14~~ ✓	✓			
2				✓			Calibration of 3GB5a
3							
4							Deployed drifter # 37506
5		Stole the salt bottle for NWS					Lat 59 2.842 N
6							Long 148 41.060 W
7							Time 13:41
8							
9							
10							Bottom depth on lab 233 meters depth on
11							Bridge 181 meters. Altimeter said ~0.22m
12							Stopped CTD @ depth of 187 meters.
13							
14							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GB4A

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
02	45	907.752	N	148	45.243	W	16	SEP	03	14	36	10.0	7.5	20	2	8	122	1	*	*	0	147	GB4A

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON	on 1429 down 1431	147	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot		14				pre-pickup cobb 35-B4A
2							
3							
4							
5							
6							
7							
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9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	.769N			.333W																			
025	59	16.81	N	148	57.33	W	15	SEP	03	16	08	10.5	9.8	20	2	8	226	22	2	0		182	GB3

PAR	✓			TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL	✓	DATA ON	on 1607 start 1602	177 182	.177

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	16m			1			Get double nutrient sample @ 16 meter
2	16m			2			for calibration of mooring nitrate meter
3							
4							pre-pickup calib file 3GB3.
5							
6							
7							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
		16.49			57.89					0458												185	GB3B
026	59	16.50	N	148	57.77	W	17	SEP	03	05	08	12.7		13	1	8	071	19	2	6	1	185	GB3B

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		Drifter 36254 at 0527 17 Sep 2003 56 16.04N 148 57.54W	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	180	1					Calibration cast for 2GB3MB
2	150	3					Post deployment
3	125	5					
4	100	9					
5	75	11					
6	50	13					
7	30	14					
8	20	15		3 F			I forgot to filter them
9	10	16		4 F			"
10	0	17		5 F			"
11							We did not do 16m
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	11.48			36.19						0700												128	
027	59	11.54	N	148	36.14	W	17	SEP	03	07	06	12.5	.	1228			78	14	1	6	1	128	ATB0

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	123	1	15	6			
2	100	3		7			
3	75	5		8			
4	60	9		9			
5	40	11		10	279 ✓		
6	20	13		11 F	281 ✓		
7	10	14		12 F	233 ✓		
8	0	15		13 F	281 ✓		
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ATB1

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	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	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
028	59 06.95 N	148 38.73 W	17 SEP 03	08 07	11.5	8.5	11	2	*	060	17	*	*		161	ATB01

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON	on 0801 Start 0802	161 (156)	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		14			
2	125	3		15			
3	100	5		16			
4	75	9		17			
5	50	11		18			
6	30	13		19			
7	20	14	F	20			
8	10	15	F	21			
9	0	16		22			
10							
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12							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GB5/GAK6/ATB2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
029	59	92.48	N	146	41.41	W	17	SEP	03	09	10	.	.	10			85	18				197	ATB02

PAR ☑	TIMES 8	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☑ SEAPOINT FL ☑	DATA ON			

	FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
	1	Bot	1	16	23			
	2	175	3		24			
	3	150	5		25			
X	4	125	7		26			
125	5	100	9		27			
100	6	75	11		28			
75	7	50	13		29	283✓		
50	8	40	14		30			
40	9	30	15+18	F	31			SAMPLED ONLY FROM ROSETTE POSITION # 15
	10	20	19	F	32	281✓		
	11	10	20	F	33	283✓		
	12	0	21		34	281✓		
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							

DOESN'T MATCH
.btl FILE
DEPTH READINGS
PER BOTTLE

ROSETTE BOTTLE #7 WAS NEVER
FIRED ACCORDING TO "ctd029.btl" FILE

Bridge Reports strong southward current on this line
Confirmed by greater spd over ground for same # turns
& estim current at 1.0 kts

PG ___ OF ___

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
030	58	57.99	N	148	49.10	W	17	SEP	03	10	14	.	.				80	15				248	ATB3

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	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~~					
11	30	19 ~~20~~		44E			
12	~~20~~	21		45E			
13	10	22		46E			
14	01	~~23~~		47E			
15							
16							
17							
18							
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F 0102030500

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
031	58	53.45 N	148	47.02 W	17	SEP	03	11	20	.	.				070	25				288	A7B4

aka. GB11 6

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL ✓	DATA ON		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		48			
2	250	3		49			
3	225	5		50			
4	200	9		51			
5	175	11		52			
6	150	13		53			
7	125	14		54			
8	100	15		55			
9	75	16		56			
10	50	18		57	283 ✓		
11	30	19		58			
12	20	20		59 F	281 ✓		
13	10	21		60 F	283 ✓		
14	0	22		61 F	281 ✓		
15							
16							
17							
18							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
032	58	47.83	N	146	49.26	W	17	SEP	03	12	35	12.0	8.0	07	3	*	088	20	*	*	5	257	ATB5

PAR		TIMES 8	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			245

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	18	62			
2	225	3		63			
3	200	5		64			
4	175	9		65			
5	150	11		66			
6	125	13		67			
7	100	14		68			
8	75	15		69			
9	50	16		70			
10	30	18		71			
11	20	19	F	72			
12	10	20	F	73			
13	0	21	F	74			
14							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		ATB6/GB-12

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 260 DAY	MO	YR	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
033	58	42.15	N	148	51.08	W	17	SEP	03	13	53	.	.	06	6	*	075	24	8	*	2	210	ATB06

PAR		TIMES	JD/TIME on 1344 start 1345	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		208	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		75			Seas picking up, stopped @ 200m, 10m
2	175	3		76			above bottom
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							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		ATB7

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= (DAY MO YR)	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
034	58 36.82 N (.752 N)	148 52.91 W (.042 W)	17 SEP 03	1503	.	.	046	8	0	075	27	8	*	2	115	ATB07

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON	on 1458 start 1459		114

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	✓19	87			
2	75	3		88			
3	50	5		89			
4	30	9		90			
5	20	11	F	91			
6	10	13	F	92			
7	0		F	93			
8							
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PG ___ OF ___

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
035	59	15.	N	148	54.	W	18	SEP	03	10	15	.	.	98			309	13				166	GAK5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	207				~~Cal's 3 GB 48~~
2	21	3		1			Post calibration (another) for GB 3M
3	16	5		2			Calvins NO3 METER
4	16	9		3			
5							
6							Pretty big swells causing lots of looping
7							in display - had to redetermine
8							prior to cast
9							
10							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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) 260	STA. NAME/ID
036	59	50.64	N	149	28.03	W	20	SEP	03	01	02	12.0	7.8	01	1	7	100	13	6	6	2	268	GAK1

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	263 ✓	1	21?	4			#1 Bottle did not fire - hung up on
2	225 ✓	3		5			groove in Rossette? Assumed rest of
3	200 ✓	5		6			Bottles in proper sequence.
4	175 ✓	9		7			
5	150 ✓	11		8			#3 bottle slight leaker.
6	125 ✓	13		9			
7	100 ✓	14		10			
8	75 ✓	15		11			
9	50 ✓	16		12			
10	30 ✓	18		13 F			
11	20 ✓	19		14 F			
12	10 ✓	20		15 F			
13	0	21		16 F			
14							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GAK 1i

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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 *	257 BOTTOM DEPTH (m)	STA. NAME/ID
037	59	45.89	N	149	23.79	W	20	SEP	03	02	20	11.5	7.5	0117			057	16	8	6	2	257	GAK 1i

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		13 bottle has problems	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	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	0	21		28 F			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	41.91	19.32		0307											222	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
838	59 41.97 N	149 19.38 W	20 SEP 03	03 14	11.0	7.0	01	1	7	052	187	6	1		222	GB1A

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR / SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	217	1	22?	29			
2	175	3		30			Jecker
3	150	5		31			
4	125	9		32			
5	100	11		33			
6	75	13		34			
7	50	14		35			
8	30	15		36 F			
9	20	16		37 F			
10	10	18		38 F			
11	0	19		39 F			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	37.59	15.54		0403											212	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
039	59 37.61 N	149 15.54 W	20 SEP 03	0417	10.2	07.2	0027	050	21	8	6	1		212	GAK2i	

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	207	1		40			
2	175	3		41			
3	150	5		42			
4	125	9		43			
5	100	11		44			
6	75	13		45			
7	50	14		46			
8	30	15		47			
9	20	16		48			
10	10	18		49 F			
11	0	19		50 F			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
049	59	32.44	N	149	11.57	W	20	SEP	03	05	38	10.0	7.2	00	4	8	045	30	x	x	8	215	GB2A

PAR	✓	TIMES	JD/TIME on 5:29	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON	Start 5:30		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
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	F	59			
10	10	18	F	60			
11	0	19	F	61			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	28.94			07.24						0649												203	
041	59	28.94	N	149	07.37	W	20	SEP	03	06	59	9.2	7.50	00	3	7	036	3	08	6	5	203	GAK3i

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	198	1		62			
2	175	3		63			
3	150	5		64			
4	125	9		65			
5	100	11		66			
6	75	13		67			
7	50	14		68			
8	30	15		69			
9	20	16	F	70			
10	10	18	F	71			
11	0	19	F	72			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD=263 DAY	MO	YR	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
ϕ4	25	9 24.56	N	149	02.85	W	20	SEP	03	08	18	12.0	.	995	5		045	26			5	199	GAK4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					190

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	190	1		73			
2	175	3		74			
3	150	5		75			
4	125	9		76			
5	100	11		77			
6	75	13		78			
7	50	14		79			
8	30	15 F		80			
9	20	16 F		81			
10	10	18 F		82			
11	0	19 F		83			
12		~~20~~		~~84~~			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		Ch043

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= 263 DAY	MO	YR	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
43	59	15.65 N	148	54.87 W	20	SEP	03	09	57	9.0	8.5	976			012	30			6	167	GAK5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					157

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	157	1		84			
2	125	3		85			
3	100	5		86			
4	75	9		87			
5	50	11		88			
6	30	13	F	89			
7	20	14	F	90			
8	10	15	F	91			
9	0	16	F	92			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP 01044

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (m/s) 36	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
44	59	9.64	N	151	00.57	W	20	SEP	03	1605		8.0	6.0	976	6	6	330	6.3	8	7	2	73	GP0

PAR	X	TIMES	JD/TIME	REMARKS GB-4A, GB-5a not done/weather keeping sequential #s -	MAX DEPTH
WETSTAR	X	SEAPOINT FL X	DATA ON		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	63	1	25	93			
2	50	3		94			
3	30	5	F	95			
4	20	9	F	96			
5	10	11	F	97			
6	0	13	F	98			
7		14					
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		6P1 1045

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	45	59.97	N	150	59.37	W	20	SEP	03	16	52	9.0	6.4	976.7	7	7	340	4.2	8	7	2	170	6P1

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON			160

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
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	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		6P1.5/046

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	46	59.23	N	150	58.89	W	20	SEP	03	17	37	9.3	6.8	966	6	5	305	26	8	7	2	1655	6P1.5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☒	☒	☒					155

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	150	3	26	108			No bid on 1 trip 1 & 3
2	125	5		109			
3	100	9		110			
4	75	11		111			
5	50	13		112			
6	30	14		113			
7	20	15	F	114			
8	10	16	F	115			
9	0	18	F	116			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP21047

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	47	59.00.57	N	150	57.63	W	20	SEP	03	18	25	8.3	6.1	977	6	7	350	27	8	7	2	158	6P2

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					147

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	147	1		117			
2	125	3		118			
3	100	5		119			
4	75	9		120			
5	50	11		121			
6	30	13		122			
7	20	14	F	123			
8	10	15	F	124			
9	0	16	F	125			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP3/048

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	48	58.57.03	N	150	55.51	W	20	SEP	03	19	16	8.5	5.0	976	7	3	09	34	8	7	5	152	GP3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					142

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	142	1	27	126			
2	125	3		127			
3	100	5		128			
4	75	9		129			
5	50	11		130			
6	30	13		131			
7	20	14	F	132			
8	10	15	F	133			
9	0	16	F	134			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	MO	YR	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
		.963			.075			JD= 263															
	49	58.05	N	149	04.22	W	20	SEP	03	04	20	10.5	8.8	12	8	3	300	20	1	0	0	81	STA 10

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON	0417 0418	81 89	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		135			
2	50	3		~~137~~			MISFIRED
3	30	5	F	136			
4	20	9	F	137			
5	10	11	F	138			
6	0	13	F	139			
7							
8							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 265	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	43.79	14.14		0523											110	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
	0 5 0 5 8 8 3 . 8 2 N	1 4 9 1 0 . 3 5 W	2 2 S E P 0 3	0 5 3 3	1 0 . 5	7 . 5	1 2 5	6	3	1 4	1 9	4	6	2	1 1 0	S T A 9

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	185 ✓	1	28	146			
2	75 ✓	3		141			
3	54 ✓	5		142	283		
4	34 ✓	9	F	143	288		
5	20 ✓	11	F	144	281		
6	10	13	F	145	283		
7	0	14	F	146	281		
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) 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
	01,32			17,08			JD= 265			0622												213	
451	58	01.43	N	149	17.33	W	22	SEP	03	06	33	11.0	8.0	135	6	3	16	20	3	6	2	217	STA8

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☐				Fishing boats nearby	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	212 ✓	1		147			
2	175 ✓	3		148			
3	150 ✓	5		149			
4	125 ✓	9		150			
5	100 ✓	11		151			
6	75 ✓	13		152			
7	50 ✓	14		153			
8	30 ✓	15	F	154			
9	20 ✓	16	F	155			
10	10	18	F	156			
11	0	19	F	157			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
Kilo Moana ~~NOAA Ship MILLER FREEMAN~~	~~MF08-02~~		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
052	57	59.15	N	149	24.25	W	22	SEP	03	07	42	.	.	14	6	8	312	18	*	*	2	197	STA7

.062 (LATITUDE MIN) 24.912 (LONGITUDE MIN)

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	Down 0735	Fishing boats nearby 205	185

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	29	158			
2	150	3		159			
3	125	5		160			
4	100	9		161			
5	75	11		162			
6	50	13		1			
7	30	14	F	2			
8	20	15	F	3			
9	10	16	F	4			
10	0	18	F	5			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
~~NOAA Ship MILLER FREEMAN~~ Kilo Moana	~~MF09-02~~ KM0313		STA 6/053

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
053	57	56.99	N	149	28.27	W	22	SEP	03	08	37	10.0	7.0	1555			305	18		2	189		STA6

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					181

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	181	1		6			
2	150	3		7			
3	125	5		8			
4	100	9		9			
5	75	11		10			
6	50	13		11			
7	30	14	F	12			
8	20	15	F	13			
9	10	16	F	14			
10	0	18	F	15			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF03-02		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) 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
	24.94			43.50						0400		56F										167	
001	58	24.92	N	151	43.48	W	14	5	03	04	18	13.5	.		3	8	307	24	2	6	2		API

PAR	WETSTAR	SEAPOINT FL.	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓				

	FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1	164 ✓	1	1	1			
3	2	150 ✓	3		2			
5	3	125 ✓	5		3			
9	4	100 ✓	9		4			
11	5	75 ✓	11		5			
13	6	50 ✓	13		6			
14	7	30 ✓	14		7			
15	8	20 ✓	15		8			
16	9	10 ✓	16		9			
17	10	0	17		10			
18	11							
19	12							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
~~NOAA Ship~~ MILLER FREEMAN KILO MOANA	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD- DAY	MO	YR	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
	25.68			31.85						0527												165	
44	25	8 25.65	N	151	31.88	W	14	SEP	43	05	30	11.4	12.0	1638	3	1	8	23	2	6	2	165	AP2

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	160 ✓	1	2	11			
2	150 ✓	3		12			
3	125 ✓	5		13			
4	100 ✓	9		14			
5	75 ✓	11		15			
6	50 ✓	13		16	283 ✓		
7	30 ✓	14		17			
8	20 ✓	15		18	281 ✓		
9	10 ✓	16		19	281 ✓		
10	0 ✓	17		20	283 ✓		
11		~~18~~		~~21~~			
12		~~19~~		~~22~~			
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oxygen on V0

PG ___ OF ___

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
KILO MOANA ~~NOAA Ship MILLER FREEMAN~~	~~MF05-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD- DAY	MO	YR	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
003	58	26.57 N	151	20.18 W	145	E	A	06	44	11.0	11.4	16	3	8	307	30	2	6	2	130	A A3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓				Wetstar replaced dissolved O2 sensor	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	124 ✓	1	3	21			
2	100 ✓	3		22			
3	75 ✓	5		23			
4	50 ✓	9		24	283 ✓		
5	30 ✓	11		25			
6	20 ✓	13		26	281 ✓		
7	10 ✓	14		27	281 ✓		
8	5	15		28	283 ✓		
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~M503-02~~ km0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	27.36			08.59						0744												97	
0	0	4	58	27.41	N	151	09.03	W	14	SEP	03	0758	11.8	11.0	15	4	7	300	35	3	6	2 98	AP4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	100 ✓	1	4	29			
2	75 ✓	3		30			
3	50 ✓	5		31	✓ 283		slight leaker
4	30 ✓	9		32			
5	20 ✓	11		33	✓ 281		
6	10 ✓	13		34	✓ 281		
7	0	14		35	✓ 283		
8							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~ME03-02~~ km#313		AP005

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
005	58	28.205	N	150	56.911	W	14	Sep	03	09	12	11.0	9.0	15			304	33				73	AP005

58 28.128N 150 56.827W

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON 0906	start down 0908		73

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	68	1	None	36			
2	50	3		37			
3	30	5		38			
4	20	9		39			slight Leaker
5	10	11		40			
6	0	13		41			
7							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MP03-02~~ Km 0313		

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	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
006	58 28.958	150 45.32	14 Sep 03	10 21	11.0	8.5	15			299	22				88	AP006

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		Start 1017 Bottom 1018		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	83	1	5	42			
2	75	3		43			
3	50	5		44			
4	40	9		45	✓ 279		Slight leaker
5	30	11		46			
6	20	13		47	✓ 281		
7	10	14		48	✓ 281		
8	0	15		49	✓ 283		
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MP03-02~~ km0313		GP7B/gp36a

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
007	58	45.047	150	52.509	14	Sep	03	12	50	11.0	9.0	15			305	18				178	GP006

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 12:41 down 12:42		188

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	175	1	6	50			
2	150	3		51			Pre pickup
3	125	5		52			
4	100	9		53			
5	75	11		54			
6	50	13		55			
7	30	14		56			
8	20	15		57			
9	10	16		58			
10	0	17		59			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
008	59	5.97	N	150	59.82	W	14	Sep	03	1534		.	.	16			302	14				163	SP001

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓				161	159

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	7				Calibration Prepickup
2	15				281		for
3							
4							LP32a
5							
6							
7	15						
8							
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~[illegible]~~ tmd313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	57.47			55.97						2123												148	GP34A
009	58	57.50	N	150	56.09	W	145	E	P03	21	26	12.5	.	1738	340	20	1	6	1		146	GP34	

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	143	1	8				
2	15	3			281		Pre pick-up calibration
3		5					
4		9					
5		11					
6		13					
7		14					
8		15					
9							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MFGS-02~~ Km 0313		KE1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
014	59	14.044	152	02.124	15	Sep	03	10	25	11.0	8.5	24			356	27				84	KE001

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		On 1022 Down 1023		85

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		1			
2	50	3		2			
3	30	5		3			
4	20	9		4			
5	10	11		5			
6	0	13		6			
7							
8							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		KE2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
011	59	11.84	N	152	04.64	W	15	Sep	03	11	34	11.0	9.0				357	24				95	KE002

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON	On 1130 Down 1130	98	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	9	7			1.5 Knots ship speed w/o RPM on
2	75	3		8			engines
3	50	5		9			
4	30	9		10			Tidal current to strong to do station
5	20	11	F	11			at Time of arrival - 1100
6	10	13	F	12			
7	0	14		13			filtering nutrient samples in first 3 Bottles
8							
9							
10							
11							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		KE3

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= (DAY MO YR)	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
012	surface 59 08.234 N	surface 152 07.174 W	15 Sep 03	1244	10.0	9.5	25			351	24				158 157	KE003

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 1239 start 1239		158

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		14			Surface cond. are for upcast
2	125	3		15			
3	100	5		16			Upcast interesting too
4	75	9		17			
5	50	11		18			
6	30	13		19			
7	20	14		20			
8	10	15		21			
9	0	16		22			
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9 oum = 3x

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		KE4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
Start and 013	59	06.527	N	152	09.309	W	15	Sep	03	13	36	11.0	9.5	25			356	21				159	KE004
	59	06.440		152	09.057	W																	

PAR		TIMES	JD/TIME
WETSTAR	SEAPOINT FL	DATA ON	on 1329 start 1330

REMARKS: 159

MAX DEPTH: 156

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	10	23			flow SE
2	125	3		24			
3	100	5		25			Bottle 15 leaker
4	75	9		26			
5	50	11		27			
6	30	13		28			
7	20	14		29			
8	10	15		30			
9	0	16		31			
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	3.594			12.14						1852								kts					
014	5903.43		N	15211.94		W	15	SEP	03	14	28	9.5	9.0	253			343	23				134	KE5

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1		32			Bottle 14 had sample cock open
2	100	3		33			
3	75	5		34			Bottle 15 Did not leak
4	60	9		35			
5	40	11		36			
6	30	13		37			
7	20	14		38			
8	10	15		39			
9	0	16		40			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	~~(m/s)~~ KTS WIND SPD.	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	1.123			14.33																			
015	59	00.88	N	152	14.13	W	15	09	03	15	14	.	.	26			345	24				112	KE6

PAR	✓		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL. ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	106	1	~~41~~	41			
2	100	3		42			
3	80	5		43			
4	60	9		44			
5	40	11		45			
6	30	13		46			
7	20	14		47			
8	10	15		48			
9	0	16		49			
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
016	58	59.01	N	152	17.97	W	15	SEP	03	16	00	.	.	26			000	24				81	KE7

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	11	50			
2	60	3		51			
3	40	5		52			
4	30	9		53			
5	20	11		54			
6	10	13	F	55			
7	0	14		56			
8							
9							
10							
11							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
01	58	49.67 N	152	20.45 W	15	Sep	03	17	48	.	.	26			345	15					SE1

.638 .428

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL	DATA ON	start 1743	121	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	F	57			Very interesting Fluorescence profiles
2	75	3	F	58			
3	60	5	F	59	✓283		
4	40	9	F	60	✓279		
5	20	11	F	61	✓281		
6	10	13	F	62	✓283		
7	0	14	F	63	✓281		leak
8	0						
9							
10							
11							
12							
13							
14							
15							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		SE2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
start 018	58	46.992 .980 N	152	21.795 .789 W	15	Sep	03	18	42	.	.	26			340	23				134	SE002

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	on 1836 down 1837	134	130

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	12	64			
2	100	3		65			
3	75	5		66			
4	50	9	F	67			Slight Leak
5	30	11	F	68			
6	20	13	F	69			
7	10	14	F	70			
8	0			71			
9							
10							
11							
12							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		SL3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
019	58	44.58	N	152	22.61	W	15	Sep	03	19	27	.	.	25			350	27				119	SL003

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL ✓	DATA ON	on 1923 down 1924	119	114

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		72			mixed to 75 meters - fl
2	75	3		73			
3	50	5	F	74			
4	30	9	F	75			
5	20	11	F	76			
6	10	13	F	77			
7	0			78			
8							
9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
02	58	42.30	N	152	23.82	W	15	Sep	03	20	13	10.0	.	25	3	8	340	23	0	0	0	151	SE4

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	147	1	13	79			
2	125	3		80			
3	100	5		81			
4	75	9		82			
5	50	11		83			
6	30	13		84 F			
7	20	14		85 F			
8	10	15		86 F			
9	0	16		87 F			
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
01	58	40.12	N	152	25.32	W	15	SEP	03	21	00	10.2	.	25	3	8	352	20	0	0	0	83	5E5

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	72	1		88			
2	50	3		89			
3	30	5		90			
4	20	9		91F			
5	10	11		92F			
6	0	13		93			
7							
8							
9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
022	58	.	N	148	.	W	16	SEP	03			.	.				204	3				193	GB12

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1							
2							Calibration (pre pick up)
3							for GB12a
4							
5							
6							
7							
8							
9							
10							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
023	59	02.90	N	148	41.55	W	16	SEP	03	13	21	10.0	7.5	20	2	8	120	1	4	4	0	233	GB5

PAR	WETSTAR	SEAPOINT FL	TIMES DATA ON	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓		on 1319	228	188

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot		~~14~~ ✓	✓			
2				✓			Calibration of 3GB5a
3							
4							Deployed drifter # 37506
5		Stole the salt bottle for NWS					Lat 59 2.842 N
6							Long 148 41.060 W
7							Time 13:41
8							
9							
10							Bottom depth on lab 233 meters depth on
11							Bridge 181 meters. Altimeter said ~0.22m
12							Stopped CTD @ depth of 187 meters.
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GB4A

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
02	45	907.752	N	148	45.243	W	16	SEP	03	14	36	10.0	7.5	20	2	8	122	1	*	*	0	147	GB4A

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON	on 1429 down 1431	147	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot		14				pre-pickup cobb 35-B4A
2							
3							
4							
5							
6							
7							
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9							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	.769N			.333W																			
025	59	16.81	N	148	57.33	W	15	SEP	03	16	08	10.5	9.8	20	2	8	226	22	2	0		182	GB3

PAR	✓			TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL	✓	DATA ON	on 1607 start 1602	177 182	.177

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	16m			1			Get double nutrient sample @ 16 meter
2	16m			2			for calibration of mooring nitrate meter
3							
4							pre-pickup calib file 3GB3.
5							
6							
7							
8							
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23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
		16.49			57.89					0458												185	GB3B
026	59	16.50	N	148	57.77	W	17	SEP	03	05	08	12.7		13	1	8	071	19	2	6	1	185	GB3B

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		Drifter 36254 at 0527 17 Sep 2003 56 16.04N 148 57.54W	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	180	1					Calibration cast for 2GB3MB
2	150	3					Post deployment
3	125	5					
4	100	9					
5	75	11					
6	50	13					
7	30	14					
8	20	15		3 F			I forgot to filter them
9	10	16		4 F			"
10	0	17		5 F			"
11							We did not do 16m
12							
13							
14							
15							
16							
17							
18							
19							
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22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	11.48			36.19						0700												128	
027	59	11.54	N	148	36.14	W	17	SEP	03	07	06	12.5	.	1228			78	14	1	6	1	128	ATB0

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	123	1	15	6			
2	100	3		7			
3	75	5		8			
4	60	9		9			
5	40	11		10	279 ✓		
6	20	13		11 F	281 ✓		
7	10	14		12 F	233 ✓		
8	0	15		13 F	281 ✓		
9							
10							
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ATB1

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	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	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
028	59 06.95 N	148 38.73 W	17 SEP 03	08 07	11.5	8.5	11	2	*	060	17	*	*		161	ATB01

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON	on 0801 Start 0802	161 (156)	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		14			
2	125	3		15			
3	100	5		16			
4	75	9		17			
5	50	11		18			
6	30	13		19			
7	20	14	F	20			
8	10	15	F	21			
9	0	16		22			
10							
11							
12							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GB5/GAK6/ATB2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
029	59	92.48	N	146	41.41	W	17	SEP	03	09	10	.	.	10			85	18				197	ATB02

PAR ☑	TIMES 8	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☑ SEAPOINT FL ☑	DATA ON			

	FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
	1	Bot	1	16	23			
	2	175	3		24			
	3	150	5		25			
X	4	125	7		26			
125	5	100	9		27			
100	6	75	11		28			
75	7	50	13		29	283✓		
50	8	40	14		30			
40	9	30	15+18	F	31			SAMPLED ONLY FROM ROSETTE POSITION # 15
	10	20	19	F	32	281✓		
	11	10	20	F	33	283✓		
	12	0	21		34	281✓		
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							

DOESN'T MATCH
.btl FILE
DEPTH READINGS
PER BOTTLE

ROSETTE BOTTLE #7 WAS NEVER
FIRED ACCORDING TO "ctd029.btl" FILE

Bridge Reports strong southward current on this line
Confirmed by greater spd over ground for same # turns
& estim current at 1.0 kts

PG ___ OF ___

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
030	58	57.99	N	148	49.10	W	17	SEP	03	10	14	.	.				80	15				248	ATB3

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	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~~					
11	30	19 ~~20~~		44E			
12	~~20~~	21		45E			
13	10	22		46E			
14	01	~~23~~		47E			
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

F 0102030500

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
031	58	53.45 N	148	47.02 W	17	SEP	03	11	20	.	.				070	25				288	A7B4

aka. GB11 6

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓	SEAPOINT FL ✓	DATA ON		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		48			
2	250	3		49			
3	225	5		50			
4	200	9		51			
5	175	11		52			
6	150	13		53			
7	125	14		54			
8	100	15		55			
9	75	16		56			
10	50	18		57	283 ✓		
11	30	19		58			
12	20	20		59 F	281 ✓		
13	10	21		60 F	283 ✓		
14	0	22		61 F	281 ✓		
15							
16							
17							
18							
19							
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21							
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24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
032	58	47.83	N	146	49.26	W	17	SEP	03	12	35	12.0	8.0	07	3	*	088	20	*	*	5	257	ATB5

PAR		TIMES 8	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			245

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	BOT	1	18	62			
2	225	3		63			
3	200	5		64			
4	175	9		65			
5	150	11		66			
6	125	13		67			
7	100	14		68			
8	75	15		69			
9	50	16		70			
10	30	18		71			
11	20	19	F	72			
12	10	20	F	73			
13	0	21	F	74			
14							
15							
16							
17							
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19							
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21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		ATB6/GB-12

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 260 DAY	MO	YR	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
033	58	42.15	N	148	51.08	W	17	SEP	03	13	53	.	.	06	6	*	075	24	8	*	2	210	ATB06

PAR		TIMES	JD/TIME on 1344 start 1345	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		208	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		75			Seas picking up, stopped @ 200m, 10m
2	175	3		76			above bottom
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							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		ATB7

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= (DAY MO YR)	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
034	58 36.82 N (.752 N)	148 52.91 W (.042 W)	17 SEP 03	1503	.	.	046	8	0	075	27	8	*	2	115	ATB07

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON	on 1458 start 1459		114

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	✓19	87			
2	75	3		88			
3	50	5		89			
4	30	9		90			
5	20	11	F	91			
6	10	13	F	92			
7	0		F	93			
8							
9							
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37498
37541

PG ___ OF ___

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
035	59	15.	N	148	54.	W	18	SEP	03	10	15	.	.	98			309	13				166	GAK5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	207				~~Cal's 3 GB 48~~
2	21	3		1			Post calibration (another) for GB 3M
3	16	5		2			Calvins NO3 METER
4	16	9		3			
5							
6							Pretty big swells causing lots of looping
7							in display - had to redetermine
8							prior to cast
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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) 260	STA. NAME/ID
036	59	50.64	N	149	28.03	W	20	SEP	03	01	02	12.0	7.8	01	1	7	100	13	6	6	2	268	GAK1

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	263 ✓	1	21?	4			#1 Bottle did not fire - hung up on
2	225 ✓	3		5			groove in Rossette? Assumed rest of
3	200 ✓	5		6			Bottles in proper sequence.
4	175 ✓	9		7			
5	150 ✓	11		8			#3 bottle slight leaker.
6	125 ✓	13		9			
7	100 ✓	14		10			
8	75 ✓	15		11			
9	50 ✓	16		12			
10	30 ✓	18		13 F			
11	20 ✓	19		14 F			
12	10 ✓	20		15 F			
13	0	21		16 F			
14							
15							
16							
17							
18							
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21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GAK 1i

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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 *	257 BOTTOM DEPTH (m)	STA. NAME/ID
037	59	45.89	N	149	23.79	W	20	SEP	03	02	20	11.5	7.5	0117			057	16	8	6	2	257	GAK 1i

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		13 bottle has problems	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	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	0	21		28 F			
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	41.91	19.32		0307											222	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
838	59 41.97 N	149 19.38 W	20 SEP 03	03 14	11.0	7.0	01	1	7	052	187	6	1		222	GB1A

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR / SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	217	1	22?	29			
2	175	3		30			Jecker
3	150	5		31			
4	125	9		32			
5	100	11		33			
6	75	13		34			
7	50	14		35			
8	30	15		36 F			
9	20	16		37 F			
10	10	18		38 F			
11	0	19		39 F			
12							
13							
14							
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17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	37.59	15.54		0403											212	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
039	59 37.61 N	149 15.54 W	20 SEP 03	0417	10.2	07.2	0027	050	21	8	6	1		212	GAK2i	

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	207	1		40			
2	175	3		41			
3	150	5		42			
4	125	9		43			
5	100	11		44			
6	75	13		45			
7	50	14		46			
8	30	15		47			
9	20	16		48			
10	10	18		49 F			
11	0	19		50 F			
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
049	59	32.44	N	149	11.57	W	20	SEP	03	05	38	10.0	7.2	00	4	8	045	30	x	x	8	215	GB2A

PAR	✓	TIMES	JD/TIME on 5:29	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON	Start 5:30		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
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	F	59			
10	10	18	F	60			
11	0	19	F	61			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	28.94			07.24						0649												203	
041	59	28.94	N	149	07.37	W	20	SEP	03	06	59	9.2	7.50	00	3	7	036	3	08	6	5	203	GAK3i

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	198	1		62			
2	175	3		63			
3	150	5		64			
4	125	9		65			
5	100	11		66			
6	75	13		67			
7	50	14		68			
8	30	15		69			
9	20	16	F	70			
10	10	18	F	71			
11	0	19	F	72			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD=263 DAY	MO	YR	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
ϕ4	25	9 24.56	N	149	02.85	W	20	SEP	03	08	18	12.0	.	995	5		045	26			5	199	GAK4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					190

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	190	1		73			
2	175	3		74			
3	150	5		75			
4	125	9		76			
5	100	11		77			
6	75	13		78			
7	50	14		79			
8	30	15 F		80			
9	20	16 F		81			
10	10	18 F		82			
11	0	19 F		83			
12		~~20~~		~~84~~			
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drifter 37498
5915.82 148 54.86

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PG ___ OF ___

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		Ch043

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= 263 DAY	MO	YR	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
43	59	15.65 N	148	54.87 W	20	SEP	03	09	57	9.0	8.5	976			012	30			6	167	GAK5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					157

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	157	1		84			
2	125	3		85			
3	100	5		86			
4	75	9		87			
5	50	11		88			
6	30	13	F	89			
7	20	14	F	90			
8	10	15	F	91			
9	0	16	F	92			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP 01044

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (m/s) 36	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
44	59	9.64	N	151	00.57	W	20	SEP	03	1605		8.0	6.0	976	6	6	330	6.3	8	7	2	73	GP0

PAR	X	TIMES	JD/TIME	REMARKS GB-4A, GB-5a not done/weather keeping sequential #s -	MAX DEPTH
WETSTAR	X	SEAPOINT FL X	DATA ON		

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	63	1	25	93			
2	50	3		94			
3	30	5	F	95			
4	20	9	F	96			
5	10	11	F	97			
6	0	13	F	98			
7		14					
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		6P1 1045

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	45	59.97	N	150	59.37	W	20	SEP	03	16	52	9.0	6.4	976.7	7	7	340	4.2	8	7	2	170	6P1

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON			160

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
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	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		6P1.5/046

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	46	59.23	N	150	58.89	W	20	SEP	03	17	37	9.3	6.8	966	6	5	305	26	8	7	2	1655	6P1.5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☒	☒	☒					155

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	150	3	26	108			No bid on 1 trip 1 & 3
2	125	5		109			
3	100	9		110			
4	75	11		111			
5	50	13		112			
6	30	14		113			
7	20	15	F	114			
8	10	16	F	115			
9	0	18	F	116			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP21047

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	47	59.00.57	N	150	57.63	W	20	SEP	03	18	25	8.3	6.1	977	6	7	350	27	8	7	2	158	6P2

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					147

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	147	1		117			
2	125	3		118			
3	100	5		119			
4	75	9		120			
5	50	11		121			
6	30	13		122			
7	20	14	F	123			
8	10	15	F	124			
9	0	16	F	125			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		GP3/048

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 263 DAY	MO	YR	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
	48	58.57.03	N	150	55.51	W	20	SEP	03	19	16	8.5	5.0	976	7	3	09	34	8	7	5	152	GP3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					142

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	142	1	27	126			
2	125	3		127			
3	100	5		128			
4	75	9		129			
5	50	11		130			
6	30	13		131			
7	20	14	F	132			
8	10	15	F	133			
9	0	16	F	134			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	MO	YR	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
		.963			.075			JD= 263															
	49	58.05	N	149	04.22	W	20	SEP	03	04	20	10.5	8.8	12	8	3	300	20	1	0	0	81	STA 10

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON	0417 0418	81 89	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1		135			
2	50	3		~~137~~			MISFIRED
3	30	5	F	136			
4	20	9	F	137			
5	10	11	F	138			
6	0	13	F	139			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 265	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	43.79	14.14		0523											110	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
	0 5 0 5 8 8 3 . 8 2 N	1 4 9 1 0 . 3 5 W	2 2 S E P 0 3	0 5 3 3	1 0 . 5	7 . 5	1 2 5	6	3	1 4	1 9	4	6	2	1 1 0	S T A 9

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	185 ✓	1	28	146			
2	75 ✓	3		141			
3	54 ✓	5		142	283		
4	34 ✓	9	F	143	288		
5	20 ✓	11	F	144	281		
6	10	13	F	145	283		
7	0	14	F	146	281		
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) 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
	01,32			17,08			JD= 265			0622												213	
451	58	01.43	N	149	17.33	W	22	SEP	03	06	33	11.0	8.0	135	6	3	16	20	3	6	2	217	STA8

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☐				Fishing boats nearby	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	212 ✓	1		147			
2	175 ✓	3		148			
3	150 ✓	5		149			
4	125 ✓	9		150			
5	100 ✓	11		151			
6	75 ✓	13		152			
7	50 ✓	14		153			
8	30 ✓	15	F	154			
9	20 ✓	16	F	155			
10	10	18	F	156			
11	0	19	F	157			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
Kilo Moana ~~NOAA Ship MILLER FREEMAN~~	~~MF08-02~~		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
052	57	59.15	N	149	24.25	W	22	SEP	03	07	42	.	.	14	6	8	312	18	*	*	2	197	STA7

.062 (LATITUDE MIN) 24.912 (LONGITUDE MIN)

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓	✓	✓	DATA ON	Down 0735	Fishing boats nearby 205	185

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	Bot	1	29	158			
2	150	3		159			
3	125	5		160			
4	100	9		161			
5	75	11		162			
6	50	13		1			
7	30	14	F	2			
8	20	15	F	3			
9	10	16	F	4			
10	0	18	F	5			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
~~NOAA Ship MILLER FREEMAN~~ Kilo Moana	~~MF09-02~~ KM0313		STA 6/053

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
053	57	56.99	N	149	28.27	W	22	SEP	03	08	37	10.0	7.0	1555			305	18		2	189		STA6

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					181

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	181	1		6			
2	150	3		7			
3	125	5		8			
4	100	9		9			
5	75	11		10			
6	50	13		11			
7	30	14	F	12			
8	20	15	F	13			
9	10	16	F	14			
10	0	18	F	15			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
Kilo Moana NOAA Ship ~~MILLER FREEMAN~~	~~ME03-02~~ KM0313		STA5/054

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
054	57	54.96	N	149	34.72	W	22	06	03	09	31	10.0	7.0	155	5		313	16			2	125	STA5

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON			115

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	115	1	✓ 30	16			
2	100	3		17			
3	75	5		18			
4	50	9		19			
5	30	11	F	20			
6	20	13	F	21			
7	10	14	F	22			
8	0	15	F	23			
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Sea-Bird CTD SBE 9

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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		STA4 / 055

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	55	57.71	N	149	41.11	W	22	SEP	03	10	26	10.0	07.0	164			310	17			2	234	STA4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
							223

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	222	1		24			
2	200	3		25			
3	175	5		26			
4	150	9		27			
5	125	11		28			
6	100	13		29			
7	75	14		30			
8	50	15		31			
9	30	16	F	32			
10	20	18	F	33			
11	10	19	F	34			
12	0	20	F	35			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		STA3A-1056

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	56	57.50.57	N	149	46.97	W	22	SEP	03	11	22	9.9	6.8	1164			309	22			1	2655	STA3A

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					255

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	255	1	31	36			
2	225	3		37			
3	200	5		38			
4	175	9		39			
5	150	11		40			
6	125	13		41			
7	100	14		42			
8	75	15		43			
9	50	16		44			
10	30	18		45			
11	20	19	F	46			
12	10	20	F	47			
13	0	21	F	48			
14							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		STA3/057

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	57	57.48.52	N	149	52.59	W	22	SEP	03	12	25	10.0	7.0	164			309	20			1	254	STA3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON			244

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	244	1		49			
2	225	3		50			
3	200	5		51			
4	175	9		52			
5	150	11		53			
6	125	13		54			
7	100	14		55			
8	75	15		56			
9	50	16		57			
10	30	18	F	58			
11	20	19	F	59			
12	10	20	F	60			
13	0	21	F	61			
14							
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		STA2A/058

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
58	57	46.33	N	149	59.92	W	22	SEP	03	13	25	19.8	7.5	1174			322	19			1	178	STA2A

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☒	☒	☒					168

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	168	1	22	62			
2	150	3		63			
3	125	5		64			
4	100	9		65			
5	75	11	32	66			
6	50	13		67			
7	30	14	F	68			
8	20	15	F	69			
9	10	16	F	70			
10	0	18	F	71			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= 265 DAY MO YR	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
	59 57 44.18 N	150 06.98 W	22 SEP 03	1420	9.5	8.0	1174			308	19			1	192	STA2

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			182

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	182	1 & 3		72			
2	150	5		73			
3	125	9		74			
4	100	11		75			
5	75	13		76			
6	50	14		77			
7	30	15	F	78			
8	20	16	F	79			
9	10	18	F	80			
10	0	19	F	81			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		ST39 / STA1 / 060

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	60	57.429	N	150	14.39	W	22	SEP	03	15	14	9.6	8.4	1748			307	14	3	7	1	131	STA1

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					120

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	120	1/3	33	82			
2	100	5		83			
3	75	9		84			
4	50	11		85			
5	30	13	F	86			
6	20	14	F	87			
7	10	15	F	88			
8	0	16	F	89			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		STB8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	61	57.46.79	N	150	09.42	W	22	SEP	03	16	13	9.0	8.3	1173	8	3	11	17	28	1	191		STB8

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
			DATA ON		High sfc. chlorophyll (.65) → 7d 8	170

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	170	1/3		90			
2	150	5		91			
3	125	9		92			
4	100	11		93			
5	75	13		94			
6	50	14		95			
7	30	15	F	96			
8	20	16	F	97			
9	10	18	F	98			
10	0	19	F	99			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ST87/062

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	62	57.50.03	N	150	05.10	W	22	SEP	03	17	07	9.5	8.4	1173	8	3	0	2	12	8	1	208	ST87

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON		5fc ch 0.4 7d8	200

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	200	1	34	100			
2	175	3		101			
3	150	5		102			
4	125	9		103			
5	100	11		104			
6	75	13		105			
7	50	14		106			
8	30	15	F	107			
9	20	16	F	108			
10	10	18	F	109			
11	0	19, 20	F	110			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		STB6/063

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	63	54.34	N	150	00.30	W	22	SEP	03	18	15	9.0	8.2	1738	3	1	4	11	2	8	1	258	STB6

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
☒	☒	☒	DATA ON		subsfc. chl max ~10-50m, 4	248

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SAL (~~SAL~~)	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	249	1		111			
2	225	3		112			
3	200	5		113			
4	175	9		114			
5	150	11		115			
6	125	13		116			
7	100	14		117			
8	75	15		118			
9	50	16	F	119			
10	30	18	F	120			
11	20	19/20	F	121			
12	10	21	F	122			
13	0	22	F	123			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		STB 51064

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
	64	57.59.02	N	149	54.37	W	22	SEP	03	19	25	9.5	8.7	1173	8	2	299	09	3	4	1	262	5185

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	REMARKS	MAX DEPTH
X	X	X	DATA ON		Subsfc chl max, 20-40m, .3 (9?) (7?)	252

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	252	1	35	124			
2	225	3		125			
3	200	5		126			
4	175	9		127			
5	150	11		128			
6	125	13		129			
7	100	14		130			
8	75	15		131			
9	50	16		132			
10	30	18	F	133			
11	20	19/20	F	134			
12	10	21	F	135			
13	0	22	F	136			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		STB41 065

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
65	58	03.17	N	149	49.08	W	22	SEP	03	20	34	12.2	16.2	1728	2	7	1	13	3	1	1	243	5T34

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
X	X	X					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	237	1		143			
2	200	3		144			
3	175	5		145			
4	150	9		146			
5	125	11		147			
6	100	13		148			
7	75	14		149			
8	50	15		150			
9	30	16	F	151			
10	20	18	F	152			
11	10	20	F	153			
12	0	21	F	154			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	07.27			44.06						2122												218	
06	58	07.29	N	149	44.40	W	22	SEP	03	21	30	12.0	10.8	17	1	8	281	12	1	1	1	218	STB3

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	213	1	36	155			
2	175	3		156			
3	150	5		157			
4	125	9		158			
5	100	11		159			
6	75	13		160			
7	50	14		161			
8	30	15	F	162			
9	20	16	F	1			
10	10	18	F	2			
11	0	20	F	3			
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 265 DAY	MO	YR	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
Ø67	58	10.47	N	149	40.04	W	22	SEP	03	22	23	12.5	11.2	17	1	8	284	13	1	1	1	105	STB2

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	✓ SEAPOINT FL ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	101 ✓	1		4			
2	75 ✓	3		5			
3	50 ✓	5		6			
4	40 ✓	9		7			
5	20 ✓	11	F	8			
6	10 ✓	13	F	9			
7	0 ✓	14	F	10			
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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= 265 (DAY MO YR)	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
06	58 13.44 N	149 36.33 W	22 SEP 03	2313	11.51	10.81	1017			275	11	2	1	1	69	STB1

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	65	1	37	11			
2	50	3		12			
3	30	5	F	13			
4	20	9	F	14			
5	10	11	F	15			
6	0	13		16			surface sample taken from flow through system after cast ~23:56 (After Bongo)
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VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 266	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	21.15	58.64		0201											123	SAB3 ENW1
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
069	58 21.18 N	148 58.62 W	23 SEP 03	02 09	12.8	8.3	1 6	2	7	268	10	2	6	1	123	ENW1

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	117 ✓	1		17			
2	100 ✓	3		18			
3	75 ✓	5		19			
4	50 ✓	9		20			
5	30 ✓	11		21			
6	20 ✓	13		22			
7	10 ✓	14		23			
8	0 ✓	15		24			
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10 C.5

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= 266 DAY	MO	YR	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
	15.63		44.94					Φ329												164Φ	
ΦΦ78	58	15.64 N	148	45.18 W	23	SEP	03	Φ3	39	1Φ.Φ	6.5	16	27	283	ΦΦ	52	1	1		157	ENW2

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	✓	✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	153	1	38	25			
2	125	3		26			
3	100	5		27			
4	75	9		28			
5	50	11		29			
6	30	13		30			
7	20	14		31			
8	10	15		32			
9	0	16		33			
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= 266 (DAY MO YR)	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
071	58 14.47 N	148 42.17 W	23 SEP 03	0433	9.2	6.2	1616	2	7	318	03	2	1	1	390	ENW3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓	4 ✓	4 ✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	395 ✓	1		34			
2	350 ✓	3		35			
3	300 ✓	5		36			
4	250 ✓	9		37			— Extra bottles at 250 db —
5	225 ✓	11		38			1601, → 1616 (Duplicates for nutrients
6	200 ✓	13		39			Fresh - Frozen test)
7	175 ✓	14		40			
8	150 ✓	15		41			
9	125 ✓	16		42			
10	100 ✓	18		43			
11	75 ✓	20		44			
12	50 ✓	21		45			
13	30 ✓	22		46			
14	20 ✓	23		47			
15	10 ✓	24		48			
16	0 ✓	2		49			
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN		~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	13.12			48.22						0546												519	
072	58	13.34	N	148	40.34	W	23	09	03	06	01	8.5	6.0	152	7	3	333	01			1	504	ENW4

PAR			TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR		SEAPOINT FL ☑	DATA ON		Part wetstar removed	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500	1	39	50			
2	450	2		51			
3	400	3		52			
4	350	4		53			
5	300	5		54			
6	250	6		55			
7	225	7		56			
8	200	8		57			
9	175	9		58			
10	150	10		59			
11	125	11		60			
12	100	12		61			
13	75	13		62			
14	50	14		63			
15	30	15		64			
16	20	16		65			
17	10	17		66			
18	0	18		67			
19							
20							
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ Knφ 313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	11.61			37.29						φ652												779	
φ73	58	11.81	N	148	37.38	W	23	SEP	φ3	φ7	15	9.2	6.φ	1627	φ	8	2	φ2			1	72φ	ENW5

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
		✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	715	1		68			
2	600	2		69			
3	500	3		70			
4	450	4		71			
5	400	5		72			
6	350	6		73			
7	300	7		74			
8	250	8		75			
9	225	9		76			
10	200	10		77			
11	175	11		78			
12	150	12		79			
13	125	13		80			
14	100	14		81			
15	75	15		82			
16	50	16		83			
17	30	17		84			
18	20	18		85			
19	10	20		86			
20	φ	21		87			
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MEG-02~~ Kn 313		ENW6/074

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 266 DAY	MO	YR	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) 1165	STA. NAME/ID
074	58	8.94	N	148	29.59	W	23	06	03	09	02	9.5	7.0	142			070	10			1	1162	ENW6

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
						40 altimeter did not see bottom Question Depth	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1140	1	40	88			
2	1000	2		89			
3	800	3		90			
4	700	4		91			
5	600	5		92			
6	500	6		93			
7	400	7		94			
8	350	8		95			
9	300	9		96			
10	250	10		97			
11	225	11		98			
12	200	12		99			
13	175	13		100			
14	150	14		101			
15	125	15		102			
16	100	16		103			
17	75	17		104			
18	50	18		105			
19	30	20		106			
20	20	21		107			
21	10	22		108			
22	0	23		109			
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 268 DAY	MO	YR	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
075	59	26.38	N	150	28.32	W	255	03	03	03	24	10.5	10.0	83	1	5	026	11	8	6	5	197	NB1

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS Nuka Bay 1	MAX DEPTH

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	191	1	41	110			
2	175	2		111			
3	150	3		112			
4	125	4		113			
5	100	5		114			
6	75	6		115			
7	50	7		116			
8	30	8		117			
9	20	9		118			
10	10	10	F	119			
11	0	11		120			
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= 268 (DAY MO YR)	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
	24.11	28.78		0407											239	
	47 59 23.87 N	150 28.64 W	25 SEP 03	04 23	11.0	9.6	833	2	5	350	13	8	6	5	233	NB2

PAR	TIMES	JD/TIME	REMARKS Nuka Bay 2	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	234 ✓	1		121			Calvins Fresh/Frozen Samples 1001-1010
2	200 ✓	2		122			Retaken - We threw out first set
3	175 ✓	3		123			
4	150 ✓	4		124			
5	125 ✓	5		125			
6	100 ✓	6		126			
7	75 ✓	7		127			
8	50 ✓	8		128			
9	30 ✓	9		129			
10	20 ✓	10		130			
11	10 ✓	11	F	131			
12	0	12		132			
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	22.41			31.56						0516												245	
077	59	22.47	N	154	31.68	W	25	SEP	03	0522		11.0	9.6	883	5	5	407	16	8	6	5	244	NB3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☐				Nuku Bay 3	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	240 ✓	1	42	133			
2	200 ✓	2		134			
3	175 ✓	3		135			Leaker, loose O ring
4	150 ✓	4		136			
5	125 ✓	5		137			
6	100 ✓	6		138			
7	75 ✓	7		139			
8	50 ✓	8		140			
9	30 ✓	9		141			
10	20 ✓	10		142			
11	10 ✓	11		143			
12	0	12		144			
13							
14							
15							
16							
17							
18							
19							
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22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ENW1/078

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	20.05			57.06						1958												125	
078	58	20.06	N	148	57.51	W	25	SEP	03	21	10	13.0	12.2	1015.7	2	4	0	18	1	4	1	126	ENW1

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓		✓	DATA ON		2nd time, after storm Par reinstalled – off since ENW4 (CTD 072)	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	120	1	43	145			
2	100	2		146			
3	75	3		147			
4	50	4		148			
5	30	5		149			
6	20	6		150			
7	10	7		151			
8	0	8		152			
9							
10							
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24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
079	58	15.49	N	148	45.25	W	25	SEP	03	21	45	11.0	9.8	035	5	7	235	21	1	4	1	166	ENW2

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL	DATA ON		jagged trace up + down - large swell + drop	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	159 ✓	1		153			
2	125 ✓	2		154			
3	100 ✓	3		155			
4	75 ✓	4		156			
5	50 ✓	5		157			
6	30 ✓	6		158			
7	20 ✓	7		159			
8	10	8		160			
9	0	9		161			
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	15.21			42.26						2223												328	
Ø8Ø	58	14.91	N	148	42.52	W	25	SEP	03	22	40	11.Ø	9.8	Ø45	7	2	21	18	1	4	1	351	ENW3

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓		4					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	345	1	44	162			
2	300	2		163			
3	250	3		164			
4	200	4		165			
5	175	5		166			
6	150	6		167			
7	125	7		1			
8	100	8		2			Leaker
9	75	9		3			
10	50	10		4	279		
11	30	11		5	288		Leaker
12	20	12		6	281		
13	10	13		7	283		
14	0	14		8	281		
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 269	TIME (GMT)	DRY BUBB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	13.04	40.11		0434											526	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
	48 15 12.74 N	148 40.23 W	26 SEP 03	0100	.	.	0757			216	18	3	4	1	546	ENW4

PAR	✓	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	☐ SEAPOINT FL ✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	535	1	45	10			
2	500	2		11			
3	450	3		12			Rocker
4	460	4		13			
5	350	5		14			
6	300	6		15			Rocker
7	250	7		16			
8	200	8		17			vent open
9	175	9		18			
10	150	10		19			
11	125	11		20			
12	100	12		21			
13	75	13		22			
14	50	14		23	279 ✓		
15	30	15		24			
16	20	16		25	281 ✓		
17	10	17		26	283 ✓		
18	0	18		27	281 ✓		
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 269	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	11.84	37.14		0241											756	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
	0825811.08 N	1483729 W	26 SEP 03	0230	12.0	10.0	685	7	2	19	18	3	6	1	848	ENW5

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR / SEAPOINT FL	DATA ON		on bottom at 814 m (salt) Sediment in Salt channel & Seapoint Fl	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	814	1		28			
2	750	2		29			
3	600	3		30			
4	500	4		31			
5	450	5		32			
6	400	6		33			
7	350	7		34			
8	300	8		35			
9	250	9		36			
10	200	10		37			
11	175	11		38			
12	150	12		39			
13	125	13		40			
14	100	14		41			
15	75	15		42			
16	50	16		43			
17	30	17		44			
18	20	18		45			
19	10	20		46			
20	0	21		47			
21							
22							
23							
24							

PG ___ OF ___

target 1140

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD- DAY	MO	YR	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
	083	58.08.51 N	148	29.67 W	26	SEP	03	04	59	11.51	10.0	11	5	7	212	14	36	1		1175	ENW6

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓		✓				Seapoint Fluorometer bad from hitting bottom Fl values bad for this cast	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1140 ✓	1	46	48			
2	1000 ✓	2		49			
3	800 ✓	3		50			
4	600 ✓	4	47	51			
5	500 ✓	5		52			
6	400 ✓	6		53			
7	300 ✓	7		54			
8	250 ✓	8		55			
9	200 ✓	9		56			
10	175 ✓	10		57			
11	150 ✓	11		58			
12	125 ✓	12		59			
13	100 ✓	13		60			
14	75 ✓	14		61	279 ✓		
15	50 ✓	15		62			MISFIRE
16	30 ✓	16		63	288 ✓		
17	20 ✓	17		64	281 ✓		
18	10 ✓	18		65	283 ✓		
19	0 ✓	20		66	281 ✓		
20							
21							
22							
23							
24							

Sal-48,49

PG ___ OF ___

1330 target

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= 269 (DAY MO YR)	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
284	58 03.12 N	148 15.63 W	26 SEP 03	07 00	11.31	10.0	1457	2	0	1	14	2	6	1	1351	EW07

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON		Seapoint Fl cleaned before cast. Fl trace looks good.	

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1330 ✓	1	48	67			
2	1200 ✓	2		68			
3	1000 ✓	3	49	69			
4	800 ✓	4		70			
5	600 ✓	5		71			
6	500 ✓	6		72			
7	400 ✓	7		73			
8	300 ✓	8		74			
9	250 ✓	9		75			
10	200 ✓	10		76			
11	175 ✓	11		77			
12	150 ✓	12		78			
13	125 ✓	13		79			
14	100 ✓	14		80			
15	75 ✓	15		81			
16	50 ✓	16		82	✓ 279		
17	30 ✓	17		83	✓ 280		
18	20 ✓	18		84	✓ 281		
19	10 ✓	19		85	✓ 283		
20	0 ✓	20		86	✓ 281		
21							
22							
23							
24							

5 50

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD- 269 DAY	MO	YR	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
	55.88			0.20						1025													
85	57	55.88	N	148	00.22	W	26	SEP	03	10	3	11.0	10.0	164	4		185	10			1	2455	ENW8

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☒				Seapoint fluor odd on upcast. Straight 1 to 1000, then → spikes	2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000✓	1	50	87			
2	1750✓	2		88			
3	1500✓	3		89			
X	X			X			Nutrient Bottle #108 looks like Niskin
X							#10 when analyzed. Adjusted nisk#s in
6	1250✓	6		90			nutrient file
7	1000✓	7		91			May-04
8	800✓	8		92			
9	600✓	9		93			
10	500✓	10		94			
11	400✓	11		95			
12	300✓	12		96			
13	250✓	13		97			
14	200✓	14		98			
15	175✓	15		99			
16	150✓	16		100			
17	125✓	17		101			
18	100✓	18		102			
19	75✓	19		103			
20	50✓	20		104	✓ 279		
21	30✓	21		105	✓ 288		
22	20✓	22	F	106	✓ 281		
23	10	23	F	107	✓ 283		
24	0	24	F	108	✓ 281		

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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ENW9

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 269 DAY	MO	YR	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
86	57	49.05	N	147	44.78	W	26	SEP	03	13	28	11.01	10.01	184			162	08			13	429	ENW9

PAR		TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR	SEAPOINT FL ☒	DATA ON		Checked Seapoint connectors for water OK on downcast & upcast	2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000	1	51	109			
2	1750	2		110			
3	1500	3		111			
4	1250	4		112			
5	1000	5		113			
6	800	6		114			
7	600	7		115			
8	500	8		116			
9	400	9		117			
10	300	10		118			
11	250	11		119			
12	200	12		120			
13	175	13		121			
14	150	14		122			
15	125	15		123			
16	100	16		124			
17	75	17		125			
18	50	18		126	✓279		
19	30	19		127	✓288		
20	20	20	F	128	✓281		
21	10	21	F	129	✓283		
22	0	22		130	✓281		
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 269 DAY	MO	YR	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
	87	57 42.09	N	147	29.95	W	26	SEP	03	16	08	11.01	10.01	836	1	0	6	05	3	8	1	4922	ENW10

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
☐	☐	☒	DATA ON			2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000✓	1	52	131			
2	1750✓	2		132			
3	1500✓	3		133			
4	1250✓	4		134			
5	1000✓	5		135			
6	800✓	6		136			
7	600✓	7		137			
8	500✓	8		138			
9	400✓	9		139			
10	300✓	10		140			
11	250✓	11		141			
12	200✓	12		142			
13	175✓	13		143			
14	150✓	14		144			
15	125✓	15		145			
16	100✓	16		146			
17	75✓	17		147			leaker
18	50✓	18		148	279		leaker
19	30✓	19		149	288		
20	20✓	20	F	150	281		
21	10✓	21	F	151	283		
22	0	22		152	281		
23							
24							

drifter 37516 deployed

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		ENW 11 / 88

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 269 DAY	MO	YR	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
088	57	37.34	N	147	14.93	W	26	SEP	03	19	11	11.3	10.0	1193	7	0	88	10	8	7	2	4843	ENW11

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☒				88	2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000	1	53	153			
2	1750	2		154			
3	1500	3		155			
4	1250	4		156			
5	1000	5		157			
6	800	6		158			
7	600	7		159			
8	500	8		160			
9	400	9		161			
10	300	10		162			
11	250	11		163			
12	200	12		164			
13	175	13		165			
14	150	14		166			
15	125	15		167			
16	100	16		1			
17	75	17		2			
18	50	18		3	✓ 289		
19	30	19		4	✓ 288		
20	20	20		5	✓ 281		
21	10	21		6	✓ 283		
22	0	22		7	✓ 281		
23							
24							

11.7 10.5

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME (GMT) HR	TIME (GMT) 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
	30.72			59.84			JD= 269			2210												4739	
089	57	30.92	N	146	59.66	W	26	SEP	03	22	53	11.71	10.5	1019	3	7	071	13	5	7	1	4754	ENW12

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	REMARKS	MAX DEPTH
✓		✓	DATA ON			

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000	1	54	48			
2	1750	2		49			
3	1500	3		50			
4	1250	4		51			
5	1000	5		52			
6	800	6		53			
7	600	7		54			
8	500	8		55			
9	400	9		56			
10	300	10		57			
11	250	11		58			
12	200	12		59			
13	175	13		60			
14	150	14		61			
15	125	15		62			
16	100	16		63			
17	75	17		64			
18	50	18		65	279		
19	30	19		66	288		
20	20	20		67	281		
21	10	21		68	283		
22	0	22		69	281		
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF0502~~ Km0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
	23.91			45.31						0120												4418	
09	57	24.14	N	146	45.20	W	27	SEP	03	02	00	.	.	1746			064	18	8	6	2	4420	ENW13

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
		✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000 ✓	1	55	70			
2	1750 ✓	2		71			
3	1500 ✓	3		72			
4	1250 ✓	4		73			
5	1000 ✓	5		74			
6	800 ✓	6		75			
7	600 ✓	7		76			
8	500 ✓	8		77			
9	400 ✓	9,10 (9 broken)		78			
10	300 ✓	11		79			
11	250 ✓	12		80			
12	200 ✓	13		81			
13	175 ✓	14		82			
14	150 ✓	15		83			
15	125 ✓	16		84			
16	100 ✓	17		85			
17	75 ✓	18		86			
18	50 ✓	19		8	281		
19	30 ✓	20		9	288		
20	20 ✓	21		10	281		
21	10 ✓	22		11	283		
22	0	23		12	279		
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	~~MF03-02~~ Km0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD- DAY	MO	YR	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
	17.20			30.23						0415												4163	
091	57	17.32	N	146	31.01	W	275	EP	03	05	03	11.5	10.5	16	4	6	058	18	8	6	1	4174	ENW14

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
✓		✓					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000	1	~~56~~	13			
2	1750	2		14			
3	1500	3		15			leaker
4	1250	4		16			
5	1000	5		17			
6	800	6		18			
7	600	7		19			
8	500	8		20			Leaker
9	400	9, 10 - 9 broken		21			
10	300	11		22			
11	250	12		23			
12	200	13		24			
13	175	14		25			
14	150	15		26			
15	125	16		27			
16	100	17		28			
17	75	18		29			
18	50	19		30	281		
19	30	20		31	288		
20	20	21		32	281		
21	10	22		33	283		
22	0	23		34	279		
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
~~NOAA Ship~~ Kromoana ~~MILLER FREEMAN~~	~~MF03-02~~ km0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 270 DAY	MO	YR	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
892	57	10.52	N	146	14.62	W	27	5	EP	03	08	34	11.5	10.2	1134	5?	042	28			1	3982	ENW15

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	X					2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000 ✓	1	56	35			
2	1750 ✓	2		36			
3	1500 ✓	3		37			
4	1250 ✓	4		38			
5	1000 ✓	5		39			
6	800 ✓	6		40			
7	600 ✓	7		41			
8	500 ✓	8		42			
9	400 ✓	9		43			
10	300 ✓	10		44			
11	250 ✓	11		45			
12	200 ✓	12		46			
13	175 ✓	13		47			
14	150 ✓	14		87			
15	125 ✓	15		88			
16	100 ✓	16		89			
17	75 ✓	17		90			
18	50 ✓	18		91	✓ 281		
19	30 ✓	19		92	✓ 288		
20	20 ✓	20		93	✓ 281		
21	10 ✓	21		94	✓ 283		
22	0 ✓	22		95	✓ 279		
23							
24							

40 m - 200 m ⇕ diff

PG ___ OF ___

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VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
Ka Moana ~~NOAA Ship MILLER FREEMAN~~	~~MF03-02~~ Km 313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 270 DAY	MO	YR	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
93	57	3.88	N	145	58.99	W	27	SEP	03	12	02	11.8	11.5	711	5		037	26			1	4080	ENW1 6

PAR	WETSTAR	SEAPOINT FL.	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☒					2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000 ✓	1	57	96			
2	1750 ✓	2		97			
3	1500 ✓	3		98			
4	1250 ✓	4		99			
5	1000 ✓	5		100			
6	800 ✓	6		101			
7	600 ✓	7		102			
8	500 ✓	8		103			
9	400 ✓	9		104			
10	300 ✓	10		105			
11	250 ✓	11		106			
12	200 ✓	12		107			
13	175 ✓	13		108			
14	150 ✓	14		109			
15	125 ✓	15		110			
16	100 ✓	16		111			
17	75 ✓	17		112			
18	50 ✓	18		113	281		
19	30 ✓	19		114	282		
20	20 ✓	20		115	283		
21	10 ✓	21		116	279		
22	0	22		117	281		
23							
24							

South end Eddyline

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 270 DAY	MO	YR	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
	9 4 5 6 5	4 . 4 2	N	1 4 5 4 1	. 5 8	W	2 7	S E P	0 3	1 5	1 3	1 2 . 0	1 1 . 5	1 1 4	3	0	4 0	0 6			4	3 8 9 2	F N W 1 7

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☒				Fluor 2V near surface	2000

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	2000 ✓	1	58	118			
2	1750 ✓	2		119			
3	1500 ✓	3		120			
4	1250 ✓	4		121			
5	1000 ✓	5		122			
6	800 ✓	6		123			
7	600 ✓	7		124			
8	500 ✓	8		125			
9	400 ✓	9		126			
10	300 ✓	10		127			
11	250 ✓	11		128			
12	200 ✓	12		129			
13	175 ✓	13		130			
14	150 ✓	14		131			
15	125 ✓	15		132			
16	100 ✓	16		133			
17	75 ✓	17		134			
18	50 ✓	18		135	281		
19	30 ✓	19	F	136	288		
20	20 ✓	20	F	137	283		
21	10	21	59 F	138	279		
22	0	22	F	139	281		
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= DAY	MO	YR	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
	30.88		00.32					2116												4761	
095	57	31.20 N	146	59.78 W	27	SEP	03	21	35	11.2	10.2	153	4	0	43	20	8	6	2	4764	EDW12

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☑				Best Guess at Eddy center Starting line of 500m ctd's from eddy center	5W

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500 ✓	1		140			First line through eddy E NW
2	400 ✓	2		141			
3	300 ✓	3		142			misfire/hangup
4	250 ✓	4		143			
5	225 ✓	5		144			
6	200 ✓	6		145			
7	175 ✓	7		146			EDW12 - center
8	150 ✓	8		147			
9	125 ✓	9		148			beginning
10	100 ✓	10		(149)			SW
11	75 ✓	11		150			line
12	50 ✓	12		151	281		
13	30 ✓	13		152	288		
14	20 ✓	14		153	283		
15	10	15		154			did not fire
16	0	16		155	281		
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE JD= 270 (DAY MO YR)	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
096	57 22.54 N	147 13.18 W	27 SEP 03	2354	11.7	10.3	1154	4		056	16	8	6	2	4752	ESW1

PAR	WETSTAR	SEAPOINT FL ✓	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐						

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500 ✓	1		156			
2	400 ✓	2		157			
3	300 ✓	3		158			
4	250 ✓	4		159			
5	225 ✓	5		160			
6	200 ✓	6		161			
7	175 ✓	7		162			
8	150 ✓	8		163			
9	125 ✓	9		164			
10	100 ✓	10		165			
11	75 ✓	11		166			
12	50 ✓	12		167	288		
13	30	13		1	283		
14	20	14		2	281		
15	10	15		3	279		
16	0	16		4	281		
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= 271 DAY	MO	YR	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
	14.94			24.64						0132												4688	
097	57	14.94	N	147	24.51	W	28	SEP	03	01	46	11.5	10.5	1154	5		070	12	8	6	2	4694	ES W2

PAR ☐ WETSTAR ☐ SEAPOINT FL ☑

TIMES JD/TIME

DATA ON

REMARKS look at salinity data, plot $S_0 - S_1$ @ diff. depths

MAX DEPTH 500

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500	1		5			Bottle did not fire
2	400	2	62	6			
3	300	3		7			
4	250	4		8			
5	225	5		9			
6	200	6		10			
7	175	7		11			
8	150	8		12			
9	125	9		13			
10	100	10		14			
11	75	11		15			
12	50	12		16	288		
13	30	13		17	283		
14	20	14		18	281		
15	10	15		19	279		
16	0	16		20	281		
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL		PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana		KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE JD= DAY	MO	YR	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
		07.46			37.79																	4626	
09	57	07.64	N	147	37.38	W	28	SEP	03	03	38	11.5	11.0	144	4	4	077	13	8	6	2	4625	ES03

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☑					

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500	1		21			
2	400	2		22			
3	300	3		23			
4	250	4		24			
5	225	5		25			
6	200	6		26			
7	175	7		27			
8	150	8		28			
9	125	9		29			
10	100	10		30			
11	75	11		31			
12	50	12		32	288		
13	30	13		33	283		
14	20	14		34	281		
15	10	15		35	279		
16	0	16		36	281		
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE (DEG MIN)	LONGITUDE (DEG MIN)	DATE (DAY MO YR)	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
99	55.06 / 56 55.01 N	55.05 / 147 54.93 W	JD= 271 / 28 SEP 03	0556 / 06 17	12.7	12.0	1134	*		106	15	*	*	6	4418	ESW4

PAR	WETSTAR	SEAPOINT FL	TIMES	JD/TIME	DATA ON	REMARKS	MAX DEPTH
☐	☐	☒					500

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER: SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500	1		37			
2	400	2		38			
3	300	3		39			
4	250	4		40			
5	225	5		41			
6	200	6		42			
7	175	7		43			
8	150	8		44			
9	125	9, 10		45			use bottle 10, double bottles due
10	100	~~10~~ 11		46			to scientific interference
11	75	~~11~~ 12		47			
12	50	~~12~~ 13		48	✓ 288		
13	30	~~13~~ 14	F	49	✓ 283		
14	20	~~14~~ 15	F	50	✓ 281		
15	10	~~15~~ 16	F	51	✓ 279		
16	0	~~16~~ 17		52	✓ 281		
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
R/V Kilo Moana	KM0313		

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE JD= 271 DAY	MO	YR	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) 4374	STA. NAME/ID
1	05	51.07 N	148	00.07 W	28	SEP	03	07	44	12.5	12.0	1012	5	2	23	19	*	*	5	4372	ESW5

PAR	TIMES	JD/TIME	REMARKS	MAX DEPTH
WETSTAR ☐ SEAPOINT FL ☐	DATA ON 7:28	Down 0730		500

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBER SALT	NUTRIENTS	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	500 ✓	1,2		53			Double-fire to make sure get Bottom Sample
2	400 ✓	3		54			
3	300 ✓	4		55			
4	250 ✓	5		56			
5	225 ✓	6		57			
6	200 ✓	7		58			
7	175 ✓	8		59			
8	150 ✓	9		60			
9	125 ✓	10		61			
10	100 ✓	11		62			
11	75 ✓	12		63			
12	50 ✓	13		64	288		
13	30 ✓	14	F	65	283		
14	20 ✓	15	F	66	281		
15	10	16	F	67	279		
16	0	17	F	68	281		
17							
18							
19							
20							
21							
22							
23							
24							