



**C-MORE BULA!!**

**Suva, Fiji - Honolulu, HI**

**R/V Kilo Moana**

**April 19-30<sup>th</sup>, 2007**

# KM 0704

Station: 1  
Cast : 1

Date: 4/20/2007  
Time: 1754

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L				8L	
2	200				2	x	x	x				x			1L
3	200		1												
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x				x			1L
21	15													8L	
22	15								6		4L	x			
23	15										8L				
24	15												x		

**Notes:** Letelier group took water from wrong niskin. Psi for BEACH labeled #1, from niskin #3.

# KM 0704

Station: 1  
Cast : 2

Date: 4/20/2007  
Time: 1944

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	8.6	126		2	2	2		4L			
3	1000							6L		6L		
4	750	9.2	127		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	12.1	128		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	18.6	129		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	22.6	130		13	13	13			5L		1L
14	200			10L								
15	150	24.9	131		15	15						1L
16	150			10L								
17	125	25.1	132		17	17						1L
18	125			10L								
19	100	25.9	133		19	19						1L
20	100			10L								
21	45	28.2	134		21	21						1L
22	45			10L								
23	15	28.3	135		23	23					6L	1L
24	15			10L								

Notes: Niskin #3 leaking

# KM 0704

Station: 1  
Cast : 3

Date: 4/20/2007  
Time: 2154

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75	8	8							1L
9	75					x	x			
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23										
24										

Notes:

# KM 0704

Station: 2  
Cast : 1

Date: 4/22/2007  
Time: 2035

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4	5L	4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L	8L				
24	15												x		

**Notes:** Limited to 5 10L positive pressure carboys, 200m Psi sample not taken.

# KM 0704

Station: 2  
Cast : 2

Date: 4/22/2007  
Time: 2145

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000								5L		6L	1L
2	1000	11.3	139		2	2	2		4L			
3	1000							6L		6L		
4	750	9.4	140		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	10.8	141		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	14.2	142		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	22.8	143		13	13	13			5L		1L
14	200			10L								
15	150	26.3	144		15	15						1L
16	150			10L								
17	125	27.4	145		17	17						1L
18	125			10L								
19	100	28.7	146		19	19						1L
20	100			10L								
21	45	29.2	147		21	21						1L
22	45			10L								
23	15	29.4	148		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 2  
Cast : 3

Date: 4/22/2007  
Time: 2350

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore	CM
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation	
1	200	1	1								
2	150					x	x				
3	150	3	3								
4	125					x	x				
5	125	5	5								
6	100					x	x				
7	100	7	7								
8	75	8	8							1L	
9	75					x	x				
10	45					x	x				
11	45	11	11								
12	45							x			
13	15					x	x				
14	15	14	14								
15	15			x							
16	15			x							
17	15								x		
18	15								x		
19	15								x		
20	15							x			
21	15									8L	
22	15				x						
23	15										x
24	15										x

**Notes:** niskin #2 stopcock open upon recovery  
Niskin #1 + #2 vents open  
#13 and #14 leaking upon recovery

\*\*most vents were open.  
Niskin #3 and #4 vents closed

# KM 0704

Station: 3  
Cast : 1

Date: 4/23/2007  
Time: 2317

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L	8L				
24	15												x		

**Notes:** Psi was 4 liter filtrations

# KM 0704

Station: 3  
Cast : 2

Date: 4/24/2007  
Time: 30

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000								5L		6L	1L
2	1000	6.3	150		2	2	2		4L			
3	1000							6L		6L		
4	750	7.9	126		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	550	9.8	127		7	7	7		4L			1L
8	550			10L								
9	550							6L		6L		
10	300	11.9	128		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	14.5	129		13	13	13			5L		1L
14	200			10L								
15	150	19.8	130		15	15						1L
16	150			10L								
17	125	26.2	131		17	17						1L
18	125			10L								
19	100	27.2	132		19	19						1L
20	100			10L								
21	45	27.6	133		21	21						1L
22	45			10L								
23	15	27.6	134		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 3  
Cast : 3

Date: 4/24/2007  
Time: 2:35

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75	8	8							1L
9	75					x	x			
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23										
24										

Notes:

# KM 0704

Station: 4  
Cast : 1

Date: 4/25/2007  
Time: 6:05

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N20	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L	8L				
24	15												x		

Notes: Based on fluorescence trace, 4L collected for Psi.

# KM 0704

Station: 4  
Cast : 2

Date: 4/25/2007  
Time: 7:22

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	7.3	136		2	2	2		4L			
3	1000							6L		6L		
4	750	8.4	137		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	10.1	138		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	12.9	139		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	14.7	140		13	13	13			5L		1L
14	200			10L								
15	150	17.6	141		15	15						1L
16	150			10L								
17	125	20.2	142		17	17						1L
18	125			10L								
19	100	26.3	143		19	19						1L
20	100			10L								
21	45	26.8	144		21	21						1L
22	45			10L								
23	15	26.9	145		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 4  
Cast : 3

Date: 4/25/2007  
Time: 9:28

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75					x	x			1L
9	75	8	8							
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23	15									
24	7									x

Notes: Samples labeled 8 really came from niskin #9

# KM 0704

Station: 5  
Cast : 1

Date: 4/26/2007  
Time: 5:55

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L					
24	15												x		

**Notes:** Based on fluorescence trace, 4L taken for Psi.

# KM 0704

Station: 5  
Cast : 2

Date: 4/26/2007  
Time: 7:24

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	7.8	126		2	2	2		4L			
3	1000							6L		6L		
4	750	8.7	127		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	10.1	128		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	11.5	129		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	13.9	130		13	13	13			5L		1L
14	200			10L								
15	150	19.2	131		15	15						1L
16	150			10L								
17	125	23.7	132		17	17						1L
18	125			10L								
19	100	26.8	133		19	19						1L
20	100			10L								
21	45	27.1	134		21	21						1L
22	45			10L								
23	15	27.1	135		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 5  
Cast : 3

Date: 4/26/2007  
Time: 9:35

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1 *							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75	8	8							1L
9	75					x	x			
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23	15									
24	15									

Notes: \*PC/PN sample #1 filter dropped on ground

# KM 0704

Station: 6  
Cast : 1

Date: 4/27/2007  
Time: 5:55

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N20	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L	8L				
24	15												x		

Notes: Psi samples=4L filtered

# KM 0704

Station: 6  
Cast : 2

Date: 4/27/2007  
Time: 7:17

Rosette Position	Desired Depth	BEACH							Niolo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	6.6	136		2	2	2		4L			
3	1000							6L		6L		
4	750	8.2	137		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	9.8	138		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	11.4	139		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	13.2	140		13	13	13			5L		1L
14	200			10L								
15	150	14.2	141		15	15						1L
16	150			10L								
17	125	16.2	142		17	17						1L
18	125			10L								
19	100	21.3	143		19	19						1L
20	100			10L								
21	45	26.6	144		21	21						1L
22	45			10L								
23	15	26.6	145		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 6  
Cast : 3

Date: 4/27/2007  
Time: 9:20

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75	8	8							1L
9	75					x	x			
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23										
24										

Notes:

# KM 0704

Station: 7  
Cast : 1

Date: 4/28/2007  
Time: 1200

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L	8L				
24	15												x		

Notes:

# KM 0704

Station: 7  
Cast : 2

Date: 4/28/2007  
Time: 13:21

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	7.1	148		2	2	2		4L			
3	1000							6L		6L		
4	750	8.6	149		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	10.1	150		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	11.7	180		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	15.4	182		13	13	13			5L		1L
14	200			10L								
15	150	16.6	196		15	15						1L
16	150			10L								
17	125	20.4	217		17	17						1L
18	125			10L								
19	100	23.3	448		19	19						1L
20	100			10L								
21	45	25.7	458		21	21						1L
22	45			10L								
23	15	25.4	463		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 7  
Cast : 3

Date: 4/28/2007  
Time:

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200									
2	150									
3	150									
4	125									
5	125									
6	100									
7	100									
8	75									
9	75									
10	45									
11	45									
12	45									
13	15									
14	15	14	14							
15	15			x						
16	15			x						
17	15					x				
18	15									
19	15									
20	15									
21	15									
22	15									
23	15									
24	7									

**Notes:** CAST ABORTED-WINCH FAILURE/RE-TERMINATE.  
PC/PN, HPLC, DNA/RNA, and N2 fix samples taken from the underway system

# KM 0704

Station: 8  
Cast : 1

Date: 4/29/2007  
Time: 10:04

Rosette Position	Desired Depth	BEACH								White/Zirbel					
		Chl	PSi	FCM	PPO4	CH4/N2O	BP	PvE	ATP	Culley	Kern	Kolber	Mahaffey	SF-PPO4	PAM
1	200	1		1						2L					
2	200				2	x	x	x				x			1L
3	200													8L	
4	200								1						
5	150	5	5	5						2L					
6	150				6	x	x	x				x			
7	150								2		4L				
8	125	8	8	8						2L					
9	125				9	x	x	x				x			
10	125								3						
11	100	11	11	11						2L					
12	100				12	x	x	x				x			1L
13	100													8L	
14	100								4		4L				
15	45	15	15	15						2L					
16	45				16	x	x	x				x			1L
17	45													8L	
18	45								5		4L	x			
19	15	19	19	19						2L					
20	15				20	x	x	x		2L		x			1L
21	15													8L	
22	15								6		4L	x			
23	15									2L					
24	15												x		

Notes:

# KM 0704

Station: 8  
Cast : 2

Date: 4/29/2007  
Time: 11:12

Rosette Position	Desired Depth	BEACH							Nielo Cid			
		Temp	Oxygen	ETS/CTC	Nuts	DIC	FCM	DNA/RNA	Culley	Hayakawa	DOC/Fe	Moore
1	1000										6L	1L
2	1000	6.4	126		2	2	2		4L			
3	1000							6L		6L		
4	750	7.3	127		4	4	4		4L			1L
5	750			10L								
6	750							6L		6L		
7	500	8.1	128		7	7	7		4L			1L
8	500			10L								
9	500							6L		6L		
10	300	11.3	129		10	10	10		4L			1L
11	300			10L								
12	300							6L		6L		
13	200	16.3	130		13	13	13			5L		1L
14	200			10L								
15	150	19.3	131		15	15						1L
16	150			10L								
17	125	20.6	132		17	17						1L
18	125			10L								
19	100	22.3	133		19	19						1L
20	100			10L								
21	45	24.4	134		21	21						1L
22	45			10L								
23	15	24.3	135		23	23					6L	1L
24	15			10L								

Notes:

# KM 0704

Station: 8  
Cast : 3

Date: 4/29/2007  
Time: 13:21

Rosette Position	Desired Depth	BEACH					Hayakawa	White/Zirbel	Nielo Cid	Moore
		HPLC	PC/PN	N2 fix	32P	DNA/RNA		SF PE	CDOM	Incubation
1	200	1	1							
2	150					x	x			
3	150	3	3							
4	125					x	x			
5	125	5	5							
6	100					x	x			
7	100	7	7							
8	75	8	8							1L
9	75					x	x			
10	45					x	x			
11	45	11	11							
12	45							x		
13	15					x	x			
14	15	14	14							
15	15			x						
16	15			x						
17	15								x	
18	15								x	
19	15								x	
20	15							x		
21	15									8L
22	15					x				
23	7									
24	5									

Notes: niskin #22 vent open

# KM 0704

Underway Station: 1                      Date: 4/21/2007

Position: 14°27.208'S 169°23.153'W      Time: 800

BEACH																	
Temp	Oxygen	DIC	CH4	N2O	DOC	Nutrients	LLP	LLN	PPO4	PC/PN	Chl	PSi	FCM	ATP	HPLC	N2 Fix	DNA/RNA
28.7	136	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	uw-1	x	uw-1	x	x

**Notes:** 0807=gases and CB#1 fill

0817=CB#1 end fill

0817=CB#2 begin fill

0823=CB#2 end fill

0825=CB#3 begin fill

0830=CB#3 end fill

0831=CB#4 Donn CB begin fill

0835=CB#4 end fill

**CB1** Core

**CB2** DNA/RNA, Rappe, ATP

**CB3** Claire

**CB4** Donn

# KM 0704

Underway Station: 2

Date: 4/21/2007

Time = 1830

Position: 12°28.272'S 168°42.432'W

BEACH																	
Temp	Oxygen	DIC	CH4	N2O	DOC	Nutrients	LLP	LLN	PPO4	PC/PN	Chl	Psi	FCM	ATP	HPLC	N2 Fix	DNA/RNA
	137	uw2	uw2	uw2	uw2	uw2	uw2	uw2	uw2	uw2	uw2	uw2	uw2	x	uw2	x	x

bottle 8

Notes: Start Gases = 1830

Start CB #1 = 1833

Start CB #2 = 1839

Start CB #3 = 1845

Start CB #4 = 1852

Finish #1 = 1839

#2 = 1844

#3 = 1848

#4 = 1855

# KM 0704

Underway Station: 3

Date: 22-Apr-07

Time = 801

Position: 9°53.711'S 167°49.137'N

BEACH																	
Temp	Oxygen	DIC	CH4	N2O	DOC	Nutrients	LLP	LLN	PPO4	PC/PN	Chl	PSi	FCM	ATP	HPLC	N2 Fix	DNA/RNA
29.6	138	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	uw 3	x	uw 3	x	x

Notes: Gas start 801 End 803  
CB 1 804 1 807  
CB 2 807 2 813  
CB 3 813 3 819  
CB 4 820 4 824





# KM 0704

Underway Station: 6

Date: 25-Apr-07

Time = 18:00

Position: 2°57.914'N 163°0.309'W

BEACH														
Temp	Oxygen	DIC	CH4	N2O	DOC	Nutrients	LLP	LLN	PPO4	PC/PN	Chl	PSi	FCM	HPLC
	146	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6	uw 6

Notes: Gas start 1800                      End 1803  
          CB 1 1803                              1 1807

\*\*\*Psi sample filtered 4L



# KM 0704

Underway Station: 9

Date: 29-Apr-07

Time = 8:00

Position:

BEACH																	
Temp	Oxygen	DIC	CH4	N2O	DOC	Nutrients	LLP	LLN	PPO4	PC/PN	Chl	PSi	FCM	ATP	HPLC	N2 Fix	DNA/RNA
		uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	uw 9	x	uw 9	x	uw 9

Notes: Gas start

End

CB 1

1

CB 2

2

CB 3

3

CB 4

4