

POWOW #1

CTD# 1 / Station# 1 / Cast# 1

max CTD depth: 200 m
 bottom depth: _____
 Start Time UTC: 06:43
 Start Lat: 21 44.93 N
 Start Lon: 158 18.29 W

Operator(s): Brandi
 Year Day UTC: 60
 Finish Time UTC: _____
 Finish Lat: _____
 Finish Lon: _____

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR/RNA	Jeremy	Erik	Chl	FIRE/FCM	Tiana	Anton
1	25	25									
2	25	25				X				X	
3	25	25		X							X
4	25	25	X		X	X		X	X	X	
5	25	25		X							X
6	25	25			X	X		X	X	X	
7	25	25		X							X
8	25	25	X		X	X		X	X	X	
9	25	25									X
10	25	25		X							X
11	25	25	X		X	X		X	X	X	
12	25	25		X							X
13	25	25	X		X	X		X	X	X	
14	25	25		X							X
15	25	25	X		X	X		X	X	X	
16	25	25		X			X				X
17	25	25	X		X	X		X	X	X	
18	25	25		X			X				X
19	25	25	X		X	X		X	X	X	
20	25	25		X			X				X
21	25	25			X	X		X	X	X	
22	25	25									X
23	25	25		X			X	X	X		X
24	25	25	X		X	X				X	

Notes:

PLAY CAST

POWOW #1

CTD# 2 / Station# 2 / Cast# 1

max CTD depth: 300 m
 bottom depth: 4837
 Start Time UTC: 12:46
 Start Lat: 22 44.9973 N
 Start Lon: 158 00.0012 W

Operator(s): Patrick / Zackary
 Year Day UTC: 61
 Finish Time UTC: 13:08
 Finish Lat: 22 44.9945 N
 Finish Lon: 158 00.0036 W

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy	Erik	Chl	FIRE/FCM	Tiana	Anton
1	300	300									
2	300	300				X				X	
3	200	200		X							X
4	200	200	X		X	X		X	X	X	
5	150	150		X							X
6	150	150			X	X		X	X	X	
7	125	125		X							X
8	125	125	X		X	X		X	X	X	
9	100	100		X							X
10	100	100	X		X	X		X	X	X	
11	Chlmax=85	85									X
12	Chlmax=85	85		X							X
13	Chlmax=85	85	X		X	X		X	X	X	
14	75	75		X							X
15	75	75	X		X	X		X	X	X	
16	50	50		X			X				X
17	50	50	X		X	X		X	X	X	
18	25	25		X			X				X
19	25	25	X		X	X		X	X	X	
20	15	15		X			X				X
21	15	15			X	X		X	X	X	
22	0	4									X
23	0	4		X			X	X	X		X
24	0	4	X		X	X				X	

Notes:

POWOW #1

CTD# 3 / Station# 4 / Cast# 1

max CTD depth: 300 m
 bottom depth: 5035 m
 Start Time UTC: 15:11
 Start Lat: 23 54.3535 N
 Start Lon: 153 25.4720 W

Operator(s): Patrick/Zackary
 Year Day UTC: 62
 Finish Time UTC: 15:35
 Finish Lat: 23 54.3520 N
 Finish Lon: 153 25.4720 W

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy	Erik	Chl	FIRE/FCM	Tiana	Anton
1	300	300				X					X
2	300	300								X	
3	200	200		X		X			X		X
4	200	200	X		X			X		X	
5	150	150		X		X			X		X
6	150	150			X			X		X	
7	125	125		X		X			X		X
8	125	125	X		X			X		X	
9	Chlmax=110	110									X
10	Chlmax=110	110		X		X			X		X
11	Chlmax=110	110	X		X			X		X	
12	100	100		X		X			X		X
13	100	100	X		X			X		X	
14	75	75		X		X			X		X
15	75	75	X		X			X		X	
16	50	50		X		X	X		X		X
17	50	50	X		X			X		X	
18	25	25		X		X	X		X		X
19	25	25	X		X			X		X	
20	15	15		X		X	X		X		X
21	15	15			X			X		X	
22	0	3		X		X	X		X		
23	0	3	X		X			X		X	
24	0	3									X

Notes:

POWOW #1

CTD# 4 / Station# 5 / Cast# 1

max CTD depth: 300 m
 bottom depth: 5323
 Start Time UTC: 15:12
 Start Lat: N 25 01.3854
 Start Lon: W 148 53.4362

Operator(s): Patrick/Zackary
 Year Day UTC: 63
 Finish Time UTC: 15:35
 Finish Lat: N 25 01.3846
 Finish Lon: W 148 53.4378

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy	Erik	Chl	FIRE/FCM	Tiana	Anton
1	300	300				X				X	X
2	200	200		X		X			X		X
3	200	200	X		X			X		X	
4	Chlmax=165	165									X
5	Chlmax=165	165		X		X			X		X
6	Chlmax=165	165	X		X			X		X	
7	150	150		X		X			X		X
8	150	150			X			X		X	
9	125	125		X		X			X		X
10	125	125	X		X			X		X	
11	100	100		X		X			X		X
12	100	100	X		X			X		X	
13	75	75		X		X			X		X
14	75	75	X		X			X		X	
15	50	50		X		X	X		X		X
16	50	50	X		X			X		X	
17	25	25		X		X	X		X		X
18	25	25	X		X			X		X	
19	15	15		X		X	X		X		X
20	15	15			X			X		X	
21	15	15				X	X				
22	0	4		X		X	X		X		
23	0	4	X		X			X		X	
24	0	4									X

Notes: diffuse chlorophyll maximum, surface T=22.1 oC

POWOW #1

CTD# 5 / Station# 6 / Cast# 1

max CTD depth: 300 m
 bottom depth: 5045
 Start Time UTC: 14:02
 Start Lat: N 26 08.7533
 Start Lon: W 144 24.6547

Operator(s): Brandi/Zackary
 Year Day UTC: 64
 Finish Time UTC: 14:22
 Finish Lat: N 26 08.7520
 Finish Lon: W 144 24.6510

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR/RNA	Jeremy	Erik	Chl	FIRe/FCM	Tiana	Anton
1	300	300				X				X	X
2	200	200		X		X			X		X
3	200	200	X		X			X		X	
4	Chlmax=160	160									X
5	Chlmax=160	160		X		X			X		X
6	Chlmax=160	160	X		X			X		X	
7	150	150		X		X			X		X
8	150	150			X			X		X	
9	125	125		X		X			X		X
10	125	125	X		X			X		X	
11	100	100		X		X			X		X
12	100	100	X		X			X		X	
13	75	75		X		X			X		X
14	75	75	X		X			X		X	
15	50	50		X		X	X		X		X
16	50	50	X		X			X		X	
17	25	25		X		X	X		X		X
18	25	25	X		X			X		X	
19	15	15		X		X	X		X		X
20	15	15			X			X		X	
21	15	15				X	X				
22	0	3		X		X	X		X		
23	0	3	X		X			X		X	
24	0	3									X

Notes: surface T=20.9 °C, diffuse chlorophyll max

POWOW #1

CTD# 6 / Station# 7 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4560
 Start Time UTC: 14:02
 Start Lat: N25 45.9739
 Start Lon: W139 36.0997

Operator(s): Brandi/Zackary
 Year Day UTC: 065
 Finish Time UTC: 14:44
 Finish Lat: N25 45.9722
 Finish Lon: W139 36.0956

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Tina	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X					
2	300	300				X	X			X	X
3	200	200		X		X			X		X
4	200	200	X		X		X	X		X	
5	150	150		X		X			X		X
6	150	150			X		X	X		X	
7	Chlmax=135	135									X
8	Chlmax=135	135		X		X			X		X
9	Chlmax=135	135	X		X		X	X		X	
10	125	125		X		X			X		X
11	125	125	X		X		X	X		X	
12	100	100		X		X			X		X
13	100	100	X		X		X	X		X	
14	75	75		X		X			X		X
15	75	75	X		X		X	X		X	
16	50	50		X		X			X		X
17	50	50	X		X		X	X		X	
18	25	25		X		X			X		X
19	25	25	X		X		X	X		X	
20	15	15		X		X			X		X
21	15	15			X		X	X		X	
22	0	3		X		X			X		
23	0	3	X		X		X	X		X	
24	0	3									X

Notes: surface T=20.1 °C

POWOW #1

CTD# 7 / Station# 8 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4260
 Start Time UTC: 14:06
 Start Lat: N24 15.9656
 Start Lon: W134 53.2643

Operator(s): Patrick/Zackary
 Year Day UTC: 066
 Finish Time UTC: 14:49
 Finish Lat: N24 15.9656
 Finish Lon: W134 53.2638

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X				
2	300	300				X			X	X
3	200	200		X		X		X		X
4	200	200	X		X		X		X	
5	150	150		X		X		X		X
6	150	150			X		X		X	
7	Chlmax=142	142								X
8	Chlmax=142	142		X		X		X		X
9	Chlmax=142	142	X		X		X		X	
10	125	125		X		X		X		X
11	125	125	X		X		X		X	
12	100	100		X		X		X		X
13	100	100	X		X		X		X	
14	75	75		X		X		X		X
15	75	75	X		X		X		X	
16	50	50		X		X		X		X
17	50	50	X		X		X		X	
18	25	25		X		X		X		X
19	25	25	X		X		X		X	
20	15	15		X		X		X		X
21	15	15			X		X		X	
22	0	3		X		X		X		
23	0	3	X		X		X		X	
24	0	3								X

Notes: surface T=19.3 °C, true chlorophyll max is a little shallower ~138m

POWOW #1

CTD# 8 / Station# 9 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4980
 Start Time UTC: 01:33
 Start Lat: N23 34.9698
 Start Lon: W132 45.3164

Operator(s): Brandi/Zackary
 Year Day UTC: 067
 Finish Time UTC: 02:10
 Finish Lat: N23 34.9641
 Finish Lon: W132 45.3183

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X				
2	300	300				X			X	X
3	200	200		X		X		X		X
4	200	200	X		X		X		X	
5	Chlmax=160	160								X
6	Chlmax=160	160		X		X		X		X
7	Chlmax=160	160	X		X		X		X	
8	150	150		X		X		X		X
9	150	150			X		X		X	
10	125	125		X		X		X		X
11	125	125	X		X		X		X	
12	100	100		X		X		X		X
13	100	100	X		X		X		X	
14	75	75		X		X		X		X
15	75	75	X		X		X		X	
16	50	50		X		X		X		X
17	50	50	X		X		X		X	
18	25	25		X		X		X		X
19	25	25	X		X		X		X	
20	15	15		X		X		X		X
21	15	15			X		X		X	
22	0	4		X		X		X		
23	0	4	X		X		X		X	
24	0	4								X

Notes: surface T=19.1 °C, double chlorophyll maxima

POWOW #1

CTD# 9 / Station# 10 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4569
 Start Time UTC: 13:03
 Start Lat: N24 07.6480
 Start Lon: W131 51.1758

Operator(s): Patrick/Zackary
 Year Day UTC: 067
 Finish Time UTC: 13:46
 Finish Lat: N24 07.6481
 Finish Lon: W131 51.1776

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X				
2	300	300				X			X	X
3	200	200		X		X		X		X
4	200	200	X		X		X		X	
5	150	150		X		X		X		X
6	150	150			X		X		X	
7	125	125		X		X		X		X
8	125	125	X		X		X		X	
9	100	100		X		X		X		X
10	100	100	X		X		X		X	
11	Chlmax=90	90								X
12	Chlmax=90	90		X		X		X		X
13	Chlmax=90	90	X		X		X		X	
14	75	75		X		X		X		X
15	75	75	X		X		X		X	
16	50	50		X		X		X		X
17	50	50	X		X		X		X	
18	25	25		X		X		X		X
19	25	25	X		X		X		X	
20	15	15		X		X		X		X
21	15	15			X		X		X	
22	0	4		X		X		X		
23	0	4	X		X		X		X	
24	0	4								X

Notes: surface T=18.8 °C, small secondary chl peak at ~135m

POWOW #1

CTD# 10 / Station# 11 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4815
 Start Time UTC: 13:05
 Start Lat: N26 32.9852
 Start Lon: W127 48.3455

Operator(s): Patrick/Zackary
 Year Day UTC: 068
 Finish Time UTC: 13:48
 Finish Lat: N26 32.9872
 Finish Lon: W127 48.3457

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X				
2	300	300				X			X	X
3	200	200		X		X		X		X
4	200	200	X		X		X		X	
5	150	150		X		X		X		X
6	150	150			X		X		X	
7	125	125		X		X		X		X
8	125	125	X		X		X		X	
9	Chlmax=100	100								X
10	Chlmax=100	100		X		X		X		X
11	Chlmax=100	100	X		X		X		X	
12	75	75		X		X		X		X
13	75	75	X		X		X		X	
14	60	60		X		X		X		X
15	60	60	X		X		X		X	
16	50	50		X		X		X		X
17	50	50	X		X		X		X	
18	25	25		X		X		X		X
19	25	25	X		X		X		X	
20	15	15		X		X		X		X
21	15	15			X		X		X	
22	0	3		X		X		X		
23	0	3	X		X		X		X	
24	0	3								X

Notes: surface T=17.6 °C, shallow mixed layer, small fls peak at 60m

POWOW #1

CTD# 11 / Station# 12 / Cast# 1

max CTD depth: 800 m
 bottom depth: 4335
 Start Time UTC: 13:03
 Start Lat: N29 36.6956
 Start Lon: W123 46.7347

Operator(s): Patrick/Zackary
 Year Day UTC: 069
 Finish Time UTC: 13:47
 Finish Lat: N29 36.6942
 Finish Lon: W123 46.7292

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	800	800				X				
2	300	300				X			X	X
3	200	200		X		X		X		X
4	200	200	X		X		X		X	
5	150	150		X		X		X		X
6	150	150			X		X		X	
7	125	125		X		X		X		X
8	125	125	X		X		X		X	
9	Chlmax=110	110								X
10	Chlmax=110	110		X		X		X		X
11	Chlmax=110	110	X		X		X		X	
12	100	100		X		X		X		X
13	100	100	X		X		X		X	
14	75	75		X		X		X		X
15	75	75	X		X		X		X	
16	50	50		X		X		X		X
17	50	50	X		X		X		X	
18	25	18		X		X		X		X
19	25	18	X		X		X		X	
20	15	15		X		X		X		X
21	15	15			X		X		X	
22	0	3		X		X		X		
23	0	3	X		X		X		X	
24	0	3								X

Notes: surface T=15.7 °C

POWOW #1

CTD# 12 / Station# 13 / Cast# 1

max CTD depth: 2000 m
 bottom depth: 3948
 Start Time UTC: 19:28
 Start Lat: N30 15.8071
 Start Lon: W122 59.1921

Operator(s): Brandi/Zackary
 Year Day UTC: 069
 Finish Time UTC: 20:43
 Finish Lat: N30 15.8073
 Finish Lon: W122 59.1922

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH	Thais	Zinser
1	2000	2000		X	X
2	2000	2000			
3	2000	2000			
4	2000	2000			
5	2000	2000			
6	2000	2000			
7	2000	2000			
8	2000	2000			
9	2000	2000			
10	2000	2000			
11	2000	2000			
12	2000	2000			
13	2000	2000			
14	2000	2000			
15	2000	2000			
16	2000	2000			
17	2000	2000			
18	2000	2000			
19	2000	2000			
20	2000	2000	X		
21	0	4	X		
22	0	4			
23	0	4			
24	0	4			

Notes: surface T=14.5 °C

POWOW #1

CTD# 13 / Station# 14 / Cast# 1

max CTD depth: 800 m
 bottom depth: 3840
 Start Time UTC: 13:05
 Start Lat: N31 14.7622
 Start Lon: W120 41.8572

Operator(s): Patrick/Zackary
 Year Day UTC: 070
 Finish Time UTC: 13:48
 Finish Lat: N31 14.7635
 Finish Lon: W120 41.8585

Rosette Position	Desired Depth (m)	Actual Depth (m)	pH/DIC	nuts	qPCR /RNA	Jeremy/Erik	Chl	FIRE/FCM	Tiana	Anton
1	300	300				X			X	X
2	200	200		X		X		X		X
3	200	200	X		X		X		X	
4	150	150		X		X		X		X
5	150	150			X		X		X	
6	125	125		X		X		X		X
7	125	125	X		X		X		X	
8	100	100		X		X		X		X
9	100	100	X		X		X		X	
10	75	75		X		X		X		X
11	75	75	X		X		X		X	
12	50	50		X		X		X		X
13	50	50	X		X		X		X	
14	Chlmax=40	40								X
15	Chlmax=40	40		X		X		X		X
16	Chlmax=40	40	X		X		X		X	
17	25	25		X		X		X		X
18	25	25	X		X		X		X	
19	15	15		X		X		X		X
20	15	15			X		X		X	
21	15	15				X				
22	0	3		X		X		X		
23	0	3	X		X		X		X	
24	0	3								X

Notes: surface T=13.5 °C, shallow chlorophyll maximum, last station!