

Station Data

Station	G318	Cast #	072	Local Date	6.20.2016	Time	9:15
---------	------	--------	-----	------------	-----------	------	------

PAM Measurements - Fv/Fm

Tube	Niskin	Depth	Sample #	Settings	Time	F	Fm'	Y(II)
1	18	0 m.		Measuring Light	12:45	422	522	0.192
				Int. 2	12:47	483	566	0.147
				Freq. 12	12:47	407	544	0.252
				System Parameters	12:48	448	624	0.282
				Gain 12	12:49	404	530	0.238
2	16	10 m.		PM-Gain 30	12:50	331	472	0.299
				F-Offs. 190	12:50	311	466	0.333
				Measuring Light	12:51	334	500	0.332
				Int. same	12:52	294	425	0.308
				Freq. same	12:53	297	377	0.212
3	14	15 m.		System Parameters	12:53	270	485	0.443
				Gain	12:54	349	539	0.353
				PM-Gain	12:55	311	470	0.338
				F-Offs.	12:56	328	401	0.182
				Measuring Light	12:56	235	363	0.353
4	Canby A	20 m. DCM	Sample #21	Int. same	12:57	169	254	0.335
				Freq. same	12:58	251	347	0.277
				System Parameters	13:00 12:59	55	339	0.838
				Gain	13:01	210	356	0.410
				PM-Gain	13:02	62	425	0.854
5	9	25 m.		F-Offs.	13:04	193	279	0.308
				Measuring Light	13:04	380	603	0.370
				Int. same	13:05	218	309	0.294
				Freq. same	13:06	261	395	0.339
				System Parameters	13:07	204	295	0.308
				Gain				
				PM-Gain				
				F-Offs.				

Station Data

Station	6318	Cast #	072	Local Date	6.20.16	Time	9:15
---------	------	--------	-----	------------	---------	------	------

PAM Measurements - Fv/Fm

Tube	Niskin	Depth	Sample #	Settings	Time	F	Fm'	Y(II)
6	7	30 m.		Measuring Light	13:08	134	121	-
				Int. <i>same</i>	13:10	160	135	-
				Freq. <i>same</i>	13:10	63	125	0.496
				System Parameters	13:11	146	136	-
				Gain PM-Gain F-Offs.	13:11	120	139	0.137
7	5	40 m.		Measuring Light	13:14	158	173	0.087
				Int. 3	13:16	73	207	0.647
				Freq. 12	13:17	132	142	0.070
				System Parameters	13:17	122	141	0.135
				Gain 12 PM-Gain 30 F-Offs. 388	13:18	164	188	0.128
8	3	50 m.		Measuring Light	13:19	96	87	-
				Int. <i>same</i>	13:20	74	70	-
				Freq. <i>same</i>	13:21	105	137	0.234
				System Parameters	13:22	121	137	0.117
				Gain PM-Gain F-Offs.	13:23	108	131	0.176
9	2	60 m.		Measuring Light	13:23	90	82	-
				Int. <i>same</i>	13:24	94	96	0.021
				Freq. <i>same</i>	13:25	77	78	0.013
				System Parameters	13:26	65	77	0.156
				Gain PM-Gain F-Offs.	13:27	89	92	0.033
10	1	80 m.		Measuring Light	13:28	67	36	-
				Int. <i>same</i>	13:29	72	49	-
				Freq. <i>same</i>	13:29	70	63	-
				System Parameters	13:30	53	51	-
				Gain PM-Gain F-Offs.	13:30			

Station Data

Station	G321	Cast #	077	Local Date	6-21-2016	Time	4:40 am
---------	------	--------	-----	------------	-----------	------	---------

PAM Measurements - Fv/Fm

Tube	Niskin	Depth	Sample #	Settings	Time	F	Fm'	Y(II)
1	19	sfc		Measuring Light	7:31	36	876	0.959
				Int. 3	7:33	444	899	0.506
				Freq. 12	7:34	625	1064	0.413
				System Parameters	7:35	616	1072	0.425
				Gain 12 PM-Gain 30 F-Offs. 353	7:36	586	928	0.369
2	17	5 m.		Measuring Light	7:37	502	870	0.423
				Int. same	7:38	529	873	0.394
				Freq. same	7:41	532	917	0.420
				System Parameters	7:42	540	857	0.370
				Gain PM-Gain F-Offs.	7:42	535	884	0.395
3	15	10 m.		Measuring Light	7:43	432	705	0.387
				Int. same	7:44	623	1266	0.508
				Freq. same	7:45	388	565	0.313
				System Parameters	7:46	355	544	0.347
				Gain PM-Gain F-Offs.	7:46	404	624	0.353
4	13	15 m.		Measuring Light	7:48	356	544	0.346
				Int. same	7:48	373	564	0.339
				Freq. same	7:49	330	494	0.332
				System Parameters				
				Gain PM-Gain F-Offs.				
5	11	20 m.		Measuring Light	7:50	100	426	0.765
				Int. same	7:51	284	494	0.425
				Freq. same	7:52	342	453	0.245
				System Parameters	7:53	343	481	0.287
				Gain PM-Gain F-Offs.	7:53	314	377	0.167

Station Data

Station	G321	Cast #	077	Local Date	6-21-2016	Time	4:40 am
---------	------	--------	-----	------------	-----------	------	---------

PAM Measurements - Fv/Fm

Tube	Niskin	Depth	Sample #	Settings	Time	F	Fm'	Y(II)
6	9	25m.		Measuring Light	7:55	282	476	0.408
				Int.	7:56	414	509	0.187
				Freq. <i>same</i>	7:57	307	520	0.410
				System Parameters	7:58	266	402	0.338
				Gain PM-Gain F-Offs.	7:59	360	473	0.239
7	7	30m.		Measuring Light	8:00	277	551	0.497
				Int.	8:01	372	538	0.309
				Freq. <i>same</i>	8:01	400	589	0.321
				System Parameters	8:02	384	571	0.327
				Gain PM-Gain F-Offs.	8:03	356	523	0.319
8	5	40m.		Measuring Light	8:04	242	350	0.309
				Int.	8:04	268	314	0.146
				Freq. <i>same</i>	8:05	324	332	0.024
				System Parameters	8:06	282	270	-
				Gain PM-Gain F-Offs.	8:07	283	348	0.187
9	3	60m.		Measuring Light	8:08	234	273	0.143
				Int.	8:09	167	270	0.381
				Freq. <i>same</i>	8:09	237	453	0.477
				System Parameters	8:10	254	360	0.294
				Gain PM-Gain F-Offs.	8:12	267	301	0.113
10	1	80m.		Measuring Light	8:13	67	84	0.202
				Int.	8:13	139	153	0.092
				Freq. <i>same</i>	8:14	172	212	0.189
				System Parameters	8:15	188	187	-
				Gain PM-Gain F-Offs.	8:16	140	169	0.172

Station Data

Station	G329	Cast #	080	Local Date	6.21.2016	Time	13:45
---------	------	--------	-----	------------	-----------	------	-------

Lat. N		Temp.		Depth	
Long. W		Salinity		Fluor.	

Samples in dark

Time 14:25

PAM Measurements - Rapid Light Curves

Tube	Niskin	Depth	Sample #	Settings	Light	Time	1st Y(II)
2	16	10m.		Measuring Light	Ampl. 1	14:58	0.094
				Int. 2	Int. 4	15:00	0.079
				Freq. 12	Ampl. 1	15:02	0.102
				System Parameters		15:04	—
				Gain 12	Ampl. 2	15:07	0.231
				PM-Gain 30		15:09	0.268
				F-Offs. 190	Ampl. 6	15:12	0.151
				NPQ Curve		15:17	0.122
4	11	20m.		Measuring Light	Ampl. 1	15:22	0.119
				Int. same	Int. 4	15:24	0.150
				Freq. same	Ampl. 1	15:27	0.140
				System Parameters		15:29	0.191
				Gain	Ampl. 2	15:31	0.423
				PM-Gain		15:33	0.421
				F-Offs.	Ampl. 6	15:36	0.181
				NPQ Curve		15:41	0.416
6	7	30m.		Measuring Light	Ampl. 1	15:52	0.857
				Int. same	Int. 4	15:55	0.244
				Freq. same	Ampl. 1	15:57	0.219
				System Parameters		15:59	0.235
				Gain	Ampl. 2	16:02	0.400
				PM-Gain		16:04	0.377
				F-Offs.	Ampl. 6	16:07	0.359
				NPQ Curve		16:12	0.365