

①  
6 FAILS @ 750m target

NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX18/2.14 Ship: SunShip/Ace	Technician: PHILIP MASSIE Call Sign: C6X N6	IMO 9338852	Ship speed	
	Date/time +3 DD/MM/YY HHMM	Latitude Deg Min	Longitude Deg Min	tube	Remarks
B.986	1193896-907				
1	29/11/14 00:44	34°04'08"S	059°01'92"W	1	Test Probe @ 300m. <del>17</del> -T
2	1/12/14 19:20	35°06.11 S	052°24.35 W	1	17
3	1/12/14 20:08	35°06.04 S	052°07.91 W	2	Spiking ~700m -F
4	1/12/14 20:56	35°06.02 S	051°51.08 W	4	(051° 51.08) 17
5	1/12/14 21:44	35°06.04 S	051°34.31 W	5	17
6	1/12/14 22:32	35°06.01 S	51°17.67 W	6	17
7	1/12/14 23:25	35°06.04 S	50°59.35 W	7	DELAY-PC HANG! 17
8	2/12/14 00:08	35°05.94 S	50°46.19 W	8	Spiked @ 650 redrop. -F
9	2/12/14 00:27	35°05.99 S	50°37.55 W	1	DELAYED REDROP-maint load 17
10	2/12/14 00:56	35°06.04 S	50°27.39 W	2	Severe spiking -F
11	2/12/14 01:00	35°06.05 S	50°26.06 W	4	redrop 17
12	2/12/14 01:44	35°06.09 S	50°10.89 W	5	17
BOX 987	1193908-919				
13	2/12/14 02:32	35°06.11 S	49°53.72 W	6	17
14	2/12/14 03:20	35°06.08 S	49°36.33 W	1	17
15	2/12/14 04:08	35°06.00 S	49°18.50 W	2	17
16	2/12/14 04:56	35°06.00 S	49°00.50 W	4	17
17	2/12/14 05:44	35°06.02 S	48°42.42 W	5	18
18	2/12/14 06:29	35°05.93 S	48°25.78 W	6	Spiking -F
19	2/12/14 06:33	35°05.90 S	48°24.42 W	7	redrop 18
20	2/12/14 07:14	35°05.93 S	48°09.13 W	8	18
21	2/12/14 07:59	35°06.00 S	47°52.80 W	1	18
22	2/12/14 08:47	35°06.06 S	47°34.86 W	2	17
23	2/12/14 09:35	35°06.00 S	47°17.46 W	3	17
24	2/12/14 10:23	35°06.06 S	45°59.90 W	5	17
BOX 988	1193920-931				
25	2/12/14 11:11	35°06.12 S	46°42.12 W	6	17
26	2/12/14 11:59	35°06.00 S	46°24.36 W	7	17
27	2/12/14 12:44	35°06.12 S	46°07.14 W	8	18
28	2/12/14 13:29	35°06.06 S	45°49.69 W	1	18
29	2/12/14 14:14	35°06.06 S	45°33.52 W	2	18
30	2/12/14 14:59	35°06.00 S	45°16.16 W	3	18
31	2/12/14 15:42	35°06.08 S	44°59.22 W	5	19
32	2/12/14 16:25	35°06.18 S	44°42.18 W	6	Spiking -F
33	2/12/14 16:28	35°06.11 S	44°41.13 W	7	redrop. 19
34	2/12/14 17:08	35°06.03 S	44°25.53 W	8	Spiking -F
35	2/12/14 17:11	35°06.03 S	44°24.45 W	1	redrop. 19
36	2/12/14 17:51	35°05.97 S	44°08.57 W	2	19
BOX 989	1193932-943				

ETA 1500?

11 FAILS (750m) 2  
17 TOT FAIL

NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX18/2.14 Ship: SunShine Ace	Technician: PHILIP MASSIE Call Sign: C6X N6	IMO 9338852	Ship speed	
	Date/time +3	Latitude	Longitude		
	DD/MM/YY HHMM	Deg Min	Deg Min	tube	
				Remarks	
37	2/12/14 18:34	35° 06.07 S	43° 51.96 W	4	
38	2/12/14 19:17	35° 06.05 S	43° 35.2 W	5	
39	2/12/14 20:00	35° 06.02 S	43° 18.58 W	6	
40	2/12/14 20:43	35° 06.16 S	43° 02.05 W	7	SPIKING
41	2/12/14 20:47	35° 06.14 S	43° 00.67 W	8	redo
42	2/12/14 21:26	35° 06.04 S	42° 45.18 W	1	
43	2/12/14 22:09	35° 06.09 S	42° 28.16 W	2	SPIKE!
44	2/12/14 22:13	35° 06.03 S	42° 26.79 W	4	redo
45	2/12/14 22:52	35° 06.03 S	42° 11.44 W	5	SPIKE
46	2/12/14 23:35	35° 06.02 S	41° 54.90 W	6	Spika ~500
47	2/12/14 23:43	35° 06.03 S	41° 51.84 W	7	redo
48	3/12/14 00:18	35° 06.01 S	41° 39.32 W	8	SPIKES
990	1193944 - 955				
49	3/12/14 00:21	35° 06.01 S	41° 37.12 W	T1	redo!
50	3/12/14 01:01	35° 05.97 S	41° 21.92 W	2	
51	3/12/14 01:44	35° 06.10 S	41° 05.55 W	4	
52	3/12/14 02:27	35° 05.94 S	40° 48.84 W	5	
53	3/12/14 03:10	35° 06.15 S	40° 31.89 W	6	SPIKE
54	3/12/14 03:14	35° 06.16 S	40° 30.39 W	7	Redo
55	3/12/14 03:58	35° 06.01 S	40° 12.88 W	8	SAKE+HANG-DELAY
56	" 04:01	35° 06.02 S	40° 11.50 W	1	REDO
57	" 04:36	35° 06.13 S	39° 57.41 W	2	LAST HD
58	" 05:44	35° 06.06 S	39° 29.76 W	4	40km int.
59	" 06:52	35° 06.00 S	39° 02.22 W	5	"
60	" 08:00	35° 06.06 S	38° 34.38 W	6	"
61	" 09:08	35° 06.06 S	38° 07.46 W	7	"
62	" 10:16	35° 06.06 S	37° 40.50 W	8	"
63	" 11:24	35° 06.28 S	37° 13.85 W	1	"
64	" 12:32	35° 06.33 S	36° 47.64 W	2	SPIKE "
65	" 13:13	35° 06.04 S	36° 31.95 W	4	REDROP "
66	" 13:40	35° 06.00 S	36° 21.21 W	5	"
67	" 14:48	35° 06.09 S	35° 54.93 W	6	"
68	" 15:56	35° 06.00 S	35° 28.00 W	7	"
69	" 16:55	35° 06.13 S	35° 04.62 W	1	35km interval
70	" 17:54	35° 06.00 S	34° 41.64 W	8	SPIKES
71	" 17:58	35° 06.01 S	34° 40.20 W	2	SPIKES
72	" 18:01	35° 06.02 S	34° 38.87 W	4	REDROP
73	" 18:53	# 1193961		5	PROBE DETECT FAIL!
74	" 18:57	35° 05.92 S	34° 19.15 W	6	SPIKE
74	" 18:57	35° 06.93 S	34° 17.81 W	7	redrop

BOX

BOX 991

BOX 992

-F

-F

-F

-F

-F

-F

-F

-F

-F

-F

40 km

40 km

40 km

35 km

35 km

6 FAILS (750m) (3)  
23 TOT 7 + 6

NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX18/214 Ship: SunSHINE Ace	Technician: PHILIP MASSIE Call Sign: C6X N6	IMO 9338852	Ship speed
	Date/time +3 DD/MM/YY HHMM	Latitude Deg Min	Longitude Deg Min	Remarks
75	3/12/14 19:56	35°06.05S	33°55.21W	8 SPIKE ~6.50
76	" 20:00	35°06.06S	33°53.73W	1 redrop
77	" 20:56	35°06.02S	33°31.58W	2
78	" 21:56	35°06.04S	33°07.79W	4
79	" 22:56	35°06.00S	32°43.94W	5
80	" 23:56	35°06.05S	32°19.71W	6
81	4/12/14 00:56	35°06.04S	31°55.73W	7
82	" 01:56	35°05.98S	31°31.75W	8 SPIKE ~7.40 - KEEP.
83	" 2:56	35°06.03S	31°08.07W	1
13,993	1193980 - 991			
84	4/12/14 03:56	35°06.10S	30°44.61W	2 SPIKE
85	" 04:07	35°06.13S	30°40.48W	34 redrop
86	" 04:56	35°06.11S	30°21.17W	5
87	" 05:56	35°06.03S	29°56.96W	6
88	" 06:56	35°06.06S	29°32.93W	7
89	" 7:56	35°06.00S	29°08.76W	8
90	" 08:56	35°06.12S	28°44.46W	1
91	" 09:56	35°06.00S	28°20.40W	2 SPIKE
92	" 10:00	35°05.94S	28°18.42W	4 redrop
93	" 10:56	35°06.12S	27°55.68W	5
94	" 11:56	35°06.00S	27°31.98W	6
95	" 12:56	35°06.12S	27°08.10W	7
96	" 13:56	35°06.07S	26°44.06W	1
97	" 14:56	35°05.86S	26°19.49W	2 SPIKE
98	" 14:59	35°05.86S	26°19.49W	4 redrop
99	" 15:56	35°06.09S	25°57.16W	5 TEMP ↑ @ Surf layer
100	" 15:58	35°06.07S	25°56.34W	6 REDO but SPIKE
101	" 16:01	35°06.05S	25°55.16W	7 Redo
102	" 16:56	35°06.11S	25°33.68W	8 NEW TARG DEP 600 m
103	" 17:56	35°06.00S	25°10.808W	1
104	" 18:56	35°06.00S	24°46.40W	2
105	" 19:56	35°05.92S	24°22.22W	4
106	" 20:56	35°06.01S	23°58.25W	5
107	" 21:56	35°05.97S	23°34.25W	6
108	" 22:56	35°06.03S	23°09.62W	7
109	" 23:56	35°06.04S	22°35.48W	8
110	5/12/14 00:56	35°06.12S	22°21.16W	1
111	" 01:56	35°05.83S	21°57.07W	2
112	" 02:56	35°06.09S	21°33.24W	34
113	" 03:56	35°05.99S	21°09.89W	5

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BOX 995 4004 4015

BOX 997 4028 4039

4

2

FAILS  
Prev tot: 23  
Since #102 (600m): 20  
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NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX181214 Ship: SunShineAce	Technician: PHILIP MASSIE Call Sign: C6X N6	IMO 9338852	Ship speed		
	Date/time +3 DD/MM/YY HHMM	Latitude Deg Min	Longitude Deg Min	tube	Remarks	
114	5/12/14 04:56	35°05.96S	20°46.49W	6	SPIKE ~550 KEEP	19
115	" 05:56	35°05.93S	20°23.14W	7		19
116	" 06:56	35°05.99S	19°59.57W	8	SPIKE	19
117	" 06:59	35°05.97S	19°58.52W	1	RIEBO	19
118	" 07:56	35°06.06S	19°35.52W	2		19
119	" 08:56	35°06.00S	19°11.52W	4		19
BOX 998	1194040 - 4051					
120	" 10:01	35°06.07S	18°45.63W	5	DELAY - PC HANG - Restart	19
121	" 10:56	35°06.06S	18°24.07W	6		19
122	" 11:56	35°06.10S	18°00.41W	7		19
123	" 12:56	35°06.04S	17°36.54W	8		19
124	" 13:56	35°06.12S	17°12.63W	1		19
125	" 14:56	35°06.01S	16°49.16W	32		19
126	" 15:56	35°06.02S	16°25.74W	4		19
127	" 16:56	35°06.06S	16°02.33W	5		19
128	" 17:56	35°06.00S	15°39.12W	6		19
129	" 18:56	35°06.00S	15°15.60W	7		19
130	" 19:56	35°06.05S	14°52.35W	8		19
131	" 20:56	35°06.00S	14°29.65W	1		19
BOX 999	1194052 - 4063					
132	" 21:56	35°06.01S	14°06.86W	2		19
133	" 22:56	35°06.02S	13°44.41W	4		19
134	" 23:56	35°05.95S	13°21.71W	5		19
135	06/12/14 00:59	35°06.08S	12°52.88W	6		18
136	" 02:02	35°06.12S	12°33.9W	7		18
137	" 03:05	35°05.94S	12°10.14W	8		18
138	" 04:08	35°06.06S	11°46.08W	1		18
	" 05:11				MISSED - PIN! SO SORRY!	
139	" 06:14	35°06.06S	10°57.78W	4	Unsure why I missed pin	18
140	" 07:17	35°05.94S	10°34.02W	5	Rebooted & pulled pins bef.	18
141	" 08:20	35°08.98S	10°09.70W	2	Def, must have missed 1.	18
142	" 09:23	35°06.05S	09°45.27W	6	Also, alarm didn't wake	18
143	" 10:26	35°07.30S	09°21.77W	2	me or I forget to reset after	19
BOX 1000	1194064 - 4075				previous. Very noisy rm.	
144	" 11:26	35°07.25S	8°59.12W	8	Either way, extremely	19
145	" 12:26	35°06.58S	8°35.23W	1	sorry!	19
146	" 13:26	35°06.05S	8°11.76W	2		19
147	" 14:26	35°05.96S	7°48.18W	4		19
148	" 15:26	35°05.95S	7°24.52W	5		19
149	" 16:26	35°06.06S	7°01.38W	6		19

-F

22

5) 4. < 0° 23' 0" W  
then HD!

FAILS

Prev tot: 24  
since #102 (loom): 1  
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NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX18/2.14 Ship: SunSHINE Ace	Technician: PHILIP MASSIE Call Sign: C6X N6	IMO 9338852	Ship speed	
	Date/time +3	Latitude	Longitude		
	DD/MM/YY HHMM	Deg Min	Deg Min	tube	
				Remarks	
150	6/12/14 17:26	35°05.94S	06°38.22W	7 ✓	19
151	" 18:26	35°06.13S	06°14.61W	8 ✓	19
152	" 19:26	35°05.95S	05°51.15W	1 ✓	19
153	" 20:26	35°05.99S	05°27.58W	2 ✓	19
154	" 21:26	35°05.96S	05°04.38W	3 ✓	19
155	" 22:26	35°05.98S	04°41.09W	5 ✓	19
BOX 1001	1194076-087				
156	" 23:26	35°06.18S	4°17.04W	6 ✓	19
157	7/12/14 00:26	35°06.07S	3°54.14W	7 ✓	19
158	" 01:26	35°05.98S	3°30.86W	8 ✓	19
159	" 02:26	35°06.01S	3°07.19W	1 ✓	19
160	" 03:26	35°05.98S	2°43.86W	2 ✓	19
161	" 04:26	35°06.06S	2°20.85W	4 ✓	19
162	" 05:26	35°06.01S	1°57.64W	5 ✓	19
163	" 06:26	35°05.97S	1°34.33W	6 ✓	19
164	" 07:29	35°06.02S	1°10.19W	7	HD SAMPLING AFTER THIS
165	" 08:12	35°05.94S	0°53.28W	8 ✓	@ 25km. (fingering
166	" 08:55	35°06.06S	0°36.60W	1 ✓	near surf)
Box 1002					
167	" 09:38	35°05.96S	0°19.80W	2 ✓	19
168	" 10:21	35°06.00S	0°03.60W	4 ✓	19
1194088					
169	" 11:04	35°06.12S	0°12.96E	5 X Greenwich ✓	19
4099					
170	" 11:47	35°05.98S	0°29.72E	6 ✓	19
171	" 12:30	35°05.73S	0°46.72E	7 ✓	19
172	" 13:13	35°06.04S	1°03.62E	8 ✓	19
173	" 13:56	35°06.27S	1°20.70E	1 ✓	19
174	" 14:39	35°05.87S	1°37.76E	2 ✓	19
175	" 15:22	35°05.97S	1°54.64E	4 ✓	19
176	" 16:05	35°06.01S	2°11.34E	5 ✓	19
177	" 16:48	35°06.06S	2°28.26E	6 ✓	19
178	" 17:31	35°06.03S	2°44.38E	7 ✓	19
Box 1003					
179	" 18:14	35°06.01S	3°01.09E	8 ✓	19
1003					
180	" 18:57	35°06.06S	3°17.76E	1 ✓	19
1194100					
181	" 19:40	35°06.01S	3°34.40E	4 ✓	19
4111					
182	" 20:23	35°05.99S	3°51.39E	5 ✓	19
183	" 21:06	35°06.06S	4°08.46E	6 ✓	19
184	" 21:49	35°05.99S	4°25.63E	7 ✓	19
185	" 22:32	35°05.97S	4°42.88E	8 ✓	19
186	" 23:15	35°06.00S	4°59.94E	1 ✓	19
187	" 23:58	35°06.06S	5°16.70E	2 ✓	19
188	8/12/14 00:41	35°06.05S	5°33.47E	4 ✓	

23  
5

Box  
1002  
1194088  
4099

Box  
1003  
1194100  
4111

from here  
Pos from  
acc 11

Ask zach about ducer betw pos  
in ascu & Drop plan

6

FAILS  
 Prev TOT 24 (700M)  
 SINCE 102 (600M): 1  
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NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX181214 Ship: SunShineAce	Technician: PHILIP MASSIE	IMO 9338852	Ship speed		
	Date/time +3	Latitude	Longitude			
	DD/MM/YY HHMM	Deg Min	Deg Min	tube		
				Remarks		
189	08/12/14 01:24	35°05.68S	5°50.17E	5 ✓	19	
190	02:07	35°05.94S	6°06.94E	6 ✓	19	
191	02:50	35°06.00S	6°23.56E	7 ✓	19	
192	03:33	35°06.09S	6°40.08E	8 ✓	19	
193	04:16	35°06.01S	6°56.26E	1 ✓	19	
194	05:01	35°06.02S	7°12.79E	2 ✓	18	
195	05:49	35°05.89S	7°30.20E	4 ✓	17	
196	06:34	35°05.87S	7°46.72E	5 ✓	18	
197	07:19	35°06.08S	8°03.49E	6 ✓	18	
198	08:04	35°05.91S	8°20.77E	7 ✓	18	
199	08:47	35°05.83S	8°37.52E	8 ✓	19	
200	09:30	35°05.91S	8°54.38E	1 ✓	19	
201	10:13	35°06.06S	9°11.23E	2 ✓	19	
202	10:56	35°06.01S	9°28.22E	4 ✓	19	
203	11:39	35°05.94S	9°45.26E	5 ✓	19	
204	12:22	35°05.93S	10°02.25E	6 ✓	19	
205	13:05	35°05.68S	10°19.06E	7 ✓	19	
206	13:48	35°06.12S	10°35.57E	8 ✓	19	
207	14:33	35°05.98S	10°52.76E	1 ✓	18	
208	15:18	35°05.96S	11°09.85E	2 ✓	18 1min delay	
209	16:04	35°05.98S	11°27.39E	5	fail on T4, went to T5 Auto ✓	18
210	16:49	35°05.03S	11°44.46E	6	Fail on T4, Auto T6 - Bad prof	18
211	16:54	35°06.04S	11°46.09E	3	Good recpt, 3 working! redo	18
212	17:33	35°06.02S	12°00.95E	7	redo	18
213	18:18	35°06.01S	12°17.73E	8	PC HANG - lucky no delay	18
214	19:03	35°06.07S	12°34.28E	1	✓	18
215	19:48	35°05.98S	12°50.59E	2	✓	18
216	20:33	35°05.99S	13°06.53E	3	Trait II, 2 worked, good data disabling	18
217	21:21	35°05.99S	13°23.05E	4	✓ 4 working	17
218	22:09	35°05.88S	13°39.68E	5	✓	17
219	22:57	35°05.91S	13°56.16E	6	✓	17
220	23:45	35°05.96S	14°13.10E	7	✓	17
221	9/12/14 00:33	35°06.05S	14°30.43E	8	✓	17
222	01:18	35°06.05S	14°47.13E	1	✓	18
223	02:03	35°06.00S	15°04.37E	2	✓	18
224	02:46	35°06.01S	15°21.24E	4		19
225	03:29	35°05.93S	15°38.16E	5	unsure of profile	19
Box 1008	119460-4171					
226	03:34	35°05.94S	15°40.13E	6	redo but unnecessary	19
227	04:12	35°05.83S	15°55.21E	7	✓	19

Box  
1004  
1194112  
4123

Box  
1005  
1194124  
4135

Box  
1007  
1194128  
4159

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119460-4171

7

FAILS  
PreTOT (750m): 24  
since 102 (600m) 3

NOAA/AOML XBT Field Log Sheet

XBT	Cruise: AX18/214 Ship: SunSHineAce	Technician: PHILIP MASSIE Call Sign: C6X N6	Imo 9338852		Ship speed
	Date/time +3	Latitude	Longitude		
	DD/MM/YY HHMM	Deg Min	Deg Min	tube	Remarks
228	9/12/14 04:55	35 05.81 S	16 12.15 E	8	✓ 19
229	" 05:38	35 05.95 S	16 29.10 E	1	✓ 19
230	" 06:21	35 05.96 S	16 45.99 E	2	✓ 19
231	" 07:04	35 06.13 S	17 02.53 E	4	✓ 19
232	" 07:47	35 05.56 S	17 18.85 E	5	✓ 19
233	" 08:30	35 05.56 S	17 35.39 E	6	✓ 19
234	" 09:13	35 05.92 S	17 52.34 E	1	✓ 19
235	" 10:01	35 06.66 S	18 11.32 E	7	HANG, DELAY, MANUAL SPIKE 19 -1
236	" 10:02	35 06.71 S	18 12.02 E	8	600m spike 19 -1
237	" 10:06	35 06.79 S	18 13.31 E	2	✓ 19
Box	1009 1194172-U183				
238	" 10:39	35 07.56 S	18 26.68 E	4	✓ 19
239	" 11:22	35 08.84 S	18 43.35 E	5	✓ bot ~ 260m 19
240	" 12:05	35 09.94 S	18 59.86 E	6	✓ crossed 200m 19
241	" 12:48	35 11.19 S	19 20.91 E	7	✓ one overlap, 10 min delay 19