Moored Station Log

(fill out log with black ball point pen only)

ARRAY NAME AND NO. WHOTS-12 **MOORED STATION NO.** 1278

Launch (anchor over)

Date (day-mon-yr) 12 July 2015 Time 02:10:18 UTC

Deployed by Pietro / Smith Recorder/Observer Dumitrascu

Ship and Cruise No. Hiiakaka'i HA-15-04 Intended Duration 12 months

Depth Recorder Reading 4704 m Correction Source CTD from UH mean sound spd = 1506 m/s

Depth Correction 18 m

Corrected Water Depth 4722* m Magnetic Variation (E/W) 9.46°

*(The correct water depth is about 4752m according to HMRG bathymetry)

Anchor Drop Lat. (N/S) 22°40.095' Lon. (E/W) 157° 56.817 W

Surveyed Pos. Lat. (N/S) 22° 40.061' Lon. (E/W) 157° 56.9654'

Argos Platform ID No. See p 2+3 Additional Argos Info on pages 2 and 3

Acoustic Release Model EG&G 8242 XS Tested to 1500 m m

Release No. 1 (sn) 32481 Release No. 2 (sn) 35319

Interrogate Freq. 11 kHz Interrogate Freq. 11 kHz

Reply Freq. 12 kHz Reply Freq. 12 kHz

Enable (A) 114617 Enable (A) 111446

Disable (A+B) 114634 Disable (A+B) 111465

Release 132132 Release 127476

Recovery (release fired)

Date (day-mon-yr) 29-Jun-2016 Time 1747 UTC

Latitude (N/S) 22° 40.270 Longitude (E/W) 157 57.450

Recovered by Cole/Smith Recorder/Observer Plueddemann

Ship and Cruise No. HA-16-05 Actual duration days

Distance from waterline to buoy deck 65 cm

ARRAY NAME AND NO. WHOTS-12 MOORED STATION NO. 1278

Surface Components

Buoy Type MOB Color(s) Hull Tower _____

Buoy Markings _____

Surface Instrumentation

Item	ID #	Height*	Comments
Logger	08		System 1
PTT	12790		ID's 06930, 07387, 14708
HRH	226	234 cm	
BPR	504	244 cm	
WND	225	266 cm	
PRC	212	232 cm	
LWR	231	286 cm	
SWR	284	286 cm	
SST	1834	-150 cm	
Logger	09		System 2
PTT	3879		ID's 07561, 27415, 27416
HRH	258	234 cm	
BPR	505	243 cm	
WND	219	265 cm	
PRC	208	232 cm	
LWR	212	286 cm	
SWR	219	286 cm	
SST	1841	-150 cm	
Yoos Melo	300034012611500		
SBE 37 AT	1446	221 cm	
Lascar AT/H	0255	225 cm	
Vaisala WXT	002	245 cm	
SA SWR	210	286 cm	
SA HRH	215	234 cm	
pCO2 see p3			

*Height above buoy deck in centimeters

ARRAY NAME AND NO. W HOTS-12 MOORED STATION NO. 1278

Subsurface Instrumentation on Buoy and Bridle			
Item	ID #	Depth†	Comments
SST	76108	80	RBR Solo-T 120° cw from vane - Port
SST	76102	80	RBR Solo-T 180° cw from vane - Bow High
SST	76109	94	RBR Solo-T 180° cw from vane - Bow low
SST	76103	80	RBR Solo-T 240° cw from vane - Starboard
SIS	300034012194230	bottom of hull	XEOS Sable
PMEL PCO2 SYSTEM			
pCO2	0013	75.5 cm *	MAPCO2 * air intake height
CTD	6884	-156 cm	SBE 16+
pH	0042	-153 cm	SAMI
fluor	1817	-150 cm	WET Labs ECO FLNTUS
oxygen	1574	-152 cm	Aanderaa 4175
†Depth below buoy deck in centimeters			

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
1		buoy	0	–	19:55:41	6-30-2016 0523	floating nicely vane extend broken on recovery
2	5.26	3/4 chain					
3		μcat	7	3617	19:52:10	0543	
4	1.30	3/4 chain		–			← props not spinning on recovery
5		VMCM	10	# 19	19:32:25	0545	spin time 18:26:18 ; bands off
6	2.82	3/4 chain					2.82 chain and 1.30 chain were others got mixed up; took time to fix
7		μcat	15	6893	19:28:15	0548	
8	8.10	3/4 chain		–			
9		μcat	25	6894	19:22:45 18:28:04	0553	lift it up 18:37:25 to change chain
10	3.28	3/4 chain		–			lift up VMCM 18:44:20 due to chain problems (mixed chains)
11		VMCM ~~μcat~~	30	# 69	19:19:16 18:22:15	0557	18:14:52 spin time ; bands off
12	2.82			–			
13		μcat	35	6895	19:17:53 18:17:54	0600	lift it up 18:46:54 due to chain mixing
14	3.66			–			
15		μcat	40	6896	19:13:17 18:15:20	0602	lift it up 18:51:27 due to chain mixing
16	3.66	3/4 chain		–			
17		μcat	45	6887	19:11:24 18:09:39	0606 end	lift it up due to chain mixing 18:53:03
18	~~3.66~~ 1.07			–			1.07 chain attached to μcat 45 19:04:35
19		ADCP	47.5	1825	20:05:22	0340	RDI 600 kHz
20	75.5	7/16 nylon rope		14029-6			
21		μcat	50	6897	20:06:27	0339	
22		μcat	55	6898	20:08:01	0338	
23		μcat	65	6899	20:08:47	0337	missing cell guard on recovery
24		μcat	75	3618	20:09:46	0337	
25		μcat	85	3634	20:11:08	0336	

E AND NO. WHOTS 12 MOORED STATION NO. 1278

		Depth	Inst No.	Time Over	Time Back	Notes
	µcat	95	3670	20:12:05	0336	Termination 75.5m SN: 14024-6 (green)
	µcat	105	6889	20:12:57	0335	took time to adjust the wire cable.
	µcat	120	6890	20:22:56	0332	
	ADCP	125	4891	20:23:06	0328	RDI 300KHz
250	3/8 wire					
	YMC	134	13584	20:27:31	0323	
	µcat	135	6888	20:27:32	0323	
	YMC	136	13585	20:27:33	0323	
	YMC	154	13586	20:30:34	0321	
	µCAT	155	6891	20:30:36	0321	
500	3/8 wire				0309	termination SN 250m 14024-4 (orange)
500	3/8 wire	extra time needed due to end-to-ending colmega in box			0220	1st 500 14024-2
500	3/8 wire				0156	2nd 500 15014-1 3rd 500 15014-3
100	3/8 wire		14024-5		0141	100m: 14024-5
200	7/8 nylon		~~14024~~-	21:46:40	6/30 0105	wire/nylon termination
2150	7/8 nylon			22:18:53	2308	
1500	1" colmega			23:26:59	2144	
	glass balls			00:14:48	6-29-16 1958	68 balls ~~XXXXXXXX~~ -> 32 All checked ~~XXXXXXXX~~ -> 32
	µcat	36m	99887	01:33:17	1959	SBE37 attached on same frame
	µcat	36m	bottom 10602			SBE37
5	1/2 chain					
	release		32481	01:33:29	2003	attached together
	release		35319			
5	1/2" chain					
20	1" samson			01:34:01		

ARRAY NAME AND NO. WHOTS 12 MOORED STATION NO. 1278

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
51	5	1/2 chain					
52		anchor			2:10:18		
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