

Moored Station Log

(fill out log with black ball point pen only)

ARRAY NAME AND NO. STRATUS 15 MOORED STATION NO. _____

Launch (anchor over)

Date (day-mon-yr) 20-06-16 Time 21:48 UTC
Deployed by Lord / Pietro Recorder/Observer Bigorre
Ship and Cruise No. AGS61 Cabo de Hornos Intended Duration 1 year
Depth Recorder Reading 4600 (12 kHz) m Correction Source Mathews table +
Depth Correction -35 m m past CTDs (sound velocity = 1509 m/s)
Corrected Water Depth 4565 m Magnetic Variation (E/W) _____
Anchor Drop Lat. (N/S) 19° 37.627' Lon. (E/W) 84° 56.687'
Surveyed Pos. Lat. (N/S) 19° 37.5734' Lon. (E/W) 84° 56.818'
Argos Platform ID No. _____ Additional Argos Info on pages 2 and 3

Acoustic Release Model Edgetech Tested to 500 m

Release No. 1 (sn) <u>48274</u> ✓	Release No. 2 (sn) <u>48281</u>
Interrogate Freq. <u>11 kHz</u>	Interrogate Freq. <u>11 kHz</u>
Reply Freq. <u>12 kHz</u>	Reply Freq. <u>12 kHz</u>
Enable <u>567402</u>	Enable <u>567743</u>
Disable <u>567421</u>	Disable <u>567760</u>
Release <u>551071</u>	Release <u>551241</u>

Recovery (release fired)

Date (day-mon-yr) 12-05-17 * Time 11:16 UTC
Latitude (N/S) 19° 37' 24.2" Longitude (E/W) 85° 56' 34.5"
Recovered by B. Pietro Recorder/Observer S. Bigorre
Ship and Cruise No. RB 1702 Actual duration _____ days

Distance from waterline to buoy deck 55 cm

* see comments on last page

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Surface Components				
Buoy Type	<u>MOBS</u>	Color(s)	<u>Yellow (top), Blue (bottom), white (tower)</u>	
Buoy Markings	<u>If found adrift contact Woods Hole Oceanographic Woods Hole, MA 02543 USA. 508-457-1401</u>			
Surface Instrumentation				
Item	ID #	Height* cm, above deck	Comments	
ASIMET logger	L04		Port side	System 1
HRH	299	230		
BPR	218	245		
WND	217	271		
PRC	214	253		
LWR	255	278		
SWR	212	279		
SST	1838	-152		
PTT	12789		27916, 27917, 27918	
ASIMET logger	L14		Starboardside	System 2
HRH	256	230		
BPR	210	243		
WND	210	271		
PRC	501	253		
LWR	221	278		
SWR	214	279		
SST	2053	-152		
PTT	18171		27919, 27920, 27921	
WXT	5	250 (245 at top of white collar)	Center front	
LASCAR	243 356	205	port	
SBE39	1447	223	port	
HRH	216	230	starboard	
XEOS Rover			30043406 0815350	
PCO2				

*Height above buoy deck in centimeters

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Subsurface Instrumentation on Buoy and Bridle			
Item	ID #	Depth†	Comments
WAMDAS	6014		3002 2401 0100 810
XEOS Kilo			3002 3406 2945 460
SBE 56	2065	-80	bow
SBE 56	2066	-80	starboard
SBE 56	2067	-80	stern
SBE 56	2068	-80	port
PCO2	112		
SAMI	P0044		
SBE 16	6566		
WADAS	6014		SID # 89881 69312 00205 1278
			30M-GX1 # 8470
			NOBC wave station 32012
			325T0

†Depth below buoy deck in centimeters

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
1		Booy			1347	2105	guano on port PRC (no birdwise here)
2	.22	3/4 chain					
3		SBE37	2	1325	1346	2105	
4	.37	3/4 chain					
5		SBE 37	3.7	1326	1346	2105	
6		termination					
7		SBE39	4.9	35	1346	2105	down. Thermistor bent by fishing rope.
8	1.3	3/4 chain					
9		RCM 11	7	78	1346	2123	
10	1.5	3/4 chain					
11		SBE 37	10	1328	1326	2123	
12	1.73	3/4 chain					
13		Nortek ADCP	13	357	1324	2130	Heads up - 2 MHz
14	1.35	3/4 chain					
15		SBE37	16	1329	1319 1316	2130	
16	2.70	3/4 chain					
17		RCM 11	20	79	1316	2135	
18	3.66	3/4 chain					
19		SBE39	25	38	1310	2138	up - Battery loose inside, no data - Fill gap in pressure case
20	3.90	3/4 chain					
21		SBE 37	30	1330	1306	2141	
22	1.12	3/4 chain					
23		RCM 11	32.5	13	1305	2141	One barnacle on edge of Xducer eye
24	1.2	3/4 chain					
25		SBE39	35	44	1303	2141	up

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
26	3.9	3/4 chain					
27		SBE37	40	8211	1300	2145	
28	3.66	3/4 chain					
29		Seaguard ADCM	45	138	1259	1904	with optode
30		SBE39	50	48			clamped
31	16m	7/16 wire					
32		SBE39	50	48	1259	1900	clamped
33		SBE39	55	49	1408	1859	clamped under (beast) resistor and fishing
34		SBE37	62.5	8212	1418	1857	load bar, Fishing line under it.
35	16m	7/16 wire					
36		SBE39	70	102	1416	1855	clamped
37		SBE39	77.5	103	1421	1853	clamped
38		RDI ADCP	80	1218	1426	1852	
39	6	7/16 wire					
40		SBE37	85	1909	1432	1851	clamped, with pressure
41		Seaguard ADCM	87.3	969	1432	1848	with optode (LS)
42	18.2	7/16 wire					
43		SBE39	92.5	203	1434	1846	clamped
44		SBE39	100	276	1439	1844	clamped
45		Fluorometer FL5B	100.5	2866	1439	1844	clamped, cap off, moved above SBE39 #276, Loose clamp
46		Seaguard ADCM	107	961	1445	1841	with optode (LS)
47	21.5	7/16 wire					
48		SBE39	115	284	1445	1840	clamped
49		SBE37	130	8215	1449	1837	with load bar.
50	14	7/16 wire					

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
51		Seaguard ADCM	145	141	1456	1831	with optode
52	13.5	7/16 wire					
53		SBE 37	160	8216	1501	1828	load bar
54	21.7	7/16 wire					
55		SBE 39	175	719	1503	1824	clamped
56		Seaguard ADCM	183	964	1509	1821	with optode (LS)
57	5.5	7/16 wire					
58		SBE 37	190	12258	1515	1817	load bar - No plug
59	29	7/16 wire					
60		SBE 37	220	12256	1520	1812	load bar
61	13.5	7/16 wire					
62		Seaguard ADCM	235	142	1526	1809	with optode
63	53.5	7/16 wire					
64		Optode	250	691 943	1530	1807	clamped (LS)
65		SBE 39	280	720	1534	1804	clamped
66		Seaguard ADCM	290	143	1539	1800	with optode
67	58.5	3/8 wire					
68		SBE 37	295	1906	1542	1800	clamped
69	1	3/4 chain					
70	48.5	3/8 wire					
71		Seaguard ADCM	400	144	1555	1749	with optode
72	48.5	3/8 wire					
73		Seaguard ADCM	450	181	1559	1745	with optode
74	148.5	3/8 wire					
75		Optode	500	943 691	1603	1735	(LS)

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
51		Seaguard ADCM	145	141	1456	1831	with optode
52	13.5	7/16 wire					
53		SBE 37	160	8216	1501	1828	load bar
54	21.7	7/16 wire					
55		SBE 39	175	719	1503	1824	clamped
56		Seaguard ADCM	183	964	1509	1821	with optode (LS)
57	5.5	7/16 wire					
58		SBE 37	190	12258	1515	1817	load bar - No plug
59	29	7/16 wire					
60		SBE 37	220	12256	1520	1812	load bar
61	13.5	7/16 wire					
62		Seaguard ADCM	235	142	1526	1809	with optode
63	53.5	7/16 wire					
64		Optode	250	691 943	1530	1807	clamped (LS)
65		SBE 39	280	720	1534	1804	clamped
66		Seaguard ADCM	290	143	1539	1800	with optode
67	58.5	3/8 wire					
68		SBE 37	295	1906	1542	1800	clamped
69	1	3/4 chain					
70	48.5	3/8 wire					
71		Seaguard ADCM	400	144	1555	1749	with optode
72	48.5	3/8 wire					
73		Seaguard ADCM	450	181	1559	1745	with optode
74	148.5	3/8 wire					
75		Optode	500	943 691	1603	1735	(LS)

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
76		SBE37	550	3733	1607	1731	clamped, with pressure
77		Senguard ADCM	600	182	1615	1726	with optode
78	200	3/8 wire					
79		SBE37	601	1908	1617	1726	clamped, No plug (for test)
80		SBE37	700	8218	1612	1721	clamped
81		VMCM	802	1	1625	1716	1618 rotors spun up top shackle hatched recently
82	48.5	3/8 wire					
83		VMCM	853	17	1631	1710	1626 spin up
84	500	3/8 wire					
85		SBE37	857	8219	1637	1709	clamped
86		SBE37	1355	8220	1706	1656	clamped, small depth change during deployment (initially 1354 m)
87	150	3/8 wire					
88		VMCM	1506	80	1717	1645	1712 spin up
89	500	3/8 wire					
90		SBE37	1557	8221	1721	1643	clamped
91		SBE37	2000	8224	1740	1626	clamped
92		VMCM	2009	91	1744	1613	1739 spin up, 2 blades missing on top rotor.
93	100	3/8 wire					} potted termination
94	200	7/8 nylon				1610	
95	1700	7/8 nylon			1815 (start)	1600 end	} spliced at sea
96	1500	1" Colmega					
97		glass balls (92)			2048	1305 1400	(23) one ball broken } 3 glass balls broken at recovery
98		SBE37	4528	2053 12257	~2125	1422 5/12/17	} on same load bar 37m above bottom
99		SBE37	4528	1837 17394	~2125	1422 5/12/17	
100	5	1/2 chain					

One glass ball broken @ deployment and removed (near top).
Three more balls broken at recovery.

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Date/Time		Comments				
Item no	Length	Item	Depth	Inst. No.	Time over	Time Back
→ 101	1 m chain	Acoustic Releases		48274 48281	~ 2130	1426 5/12/17
102	5	1/2 chain				
103	20	1" Nystrom				
104	5	1/2 chain				
105		Anchor			2148	
						Depth at anchor drop 4600 m
	5/12/2017					glassballs surface 46 min after release
						* Recovery occurred in two steps:
						1) anchor released on 5/12/2017 with recovery of releases and two deep SBE 37s.
						2) recovery of glass balls and all remaining instrumentation above deep CTDs on 5/15/2017
						and mooring buoy were adrift between Day 12 and 15 2017.
						This was done on purpose in order to retrieve strongback on releases for new mooring S16.