

Moored Station Log

(fill out log with black ball point pen only)

ARRAY NAME AND NO. STRATUS 21 MOORED STATION NO. _____

Launch (anchor over)

Date (day-mon-yr) 27-02-2023 Time 20:47 UTC
Deployed by Llanos / Graham Recorder/Observer J.P. Sorquera
Ship and Cruise No. AGS 61 Cabo de Hornos Intended Duration 365
Depth Recorder Reading 4262 m Correction Source local bathymetry
Depth Correction _____ m map from past surveys
Corrected Water Depth 4238 m Magnetic Variation (E/W) 7.16° (IGRF 2020)
Anchor Drop Lat. (N/S) 22 30.2819' Lon. (E/W) 085 49.0800'
Surveyed Pos. Lat. (N/S) 22 30.252' Lon. (E/W) 085 49.216'
Argos Platform ID No. _____ Additional Argos Info on pages 2 and 3

Acoustic Release Model Edgetech Tested to 2000 m

Release No. 1 (sn) <u>31267</u>	Release No. 2 (sn) <u>33040</u>
Interrogate Freq. <u>11</u>	Interrogate Freq. <u>11</u>
Reply Freq. <u>12</u>	Reply Freq. <u>12</u>
Enable <u>460175</u>	Enable <u>314231</u>
Disable <u>460217</u>	Disable <u>314254</u>
Release <u>444113</u>	Release <u>332216</u>

Recovery (release fired)

Date (day-mon-yr) 08 Dec 2023 Time 1002 UTC
Latitude (N/S) 22 29.996 Longitude (E/W) 85 49.22
Recovered by Llanos / Graham Recorder/Observer Gatien/Kotik/Bigorre
Ship and Cruise No. AGS 61 Cabo de Hornos Actual duration 284 days
Stratus 22
Distance from waterline to buoy deck 60 cm

ARRAY NAME AND NO. STRATUS2 / MOORED STATION NO. _____

Surface Components

Buoy Type MOB Color(s) Hull Tower Blue / Yellow / White

Buoy Markings if found adrift contact Woods Hole Oceanographic
Woods Hole MA 02543 USA 508-548-1400

Surface Instrumentation

Item	ID #	Height*	Comments
Logger	L04	port	v4.38-1 CF 25608
HRH	211	232	SD
BPR	503	240	CF
WND	222	271	CF
PRC	210	253	CF
LWR	221	282	CF
SST	1838		26.6
Ret Iridium			300234063341510
Logger	L14	starboard	v4.38-1 CF 25608
HRH	223	232	(SN Electronics 705) SD
BPR	505	240	SD
WND	344	271	CF
PRC	301	253	SD
LWR	502	282	CF
SWR	216	282	CF
SST	3605		2.66
Ret Iridium			300234063441050
Standalones:			
WXT	201	271 (Xducer)	
SWR	349	282	Eppley
HRH	221	231	
SBE39AT	477	231	
SWR	352	282	CF

*Height above buoy deck in centimeters

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Subsurface Instrumentation on Buoy and Bridle			
Item	ID #	Depth†	Comments
SBE56	2065	90	Port 90°
SBE56	2066	80	Fwd 180°
SBE56	2067	90	Fwd 180°
SBE56	2068	90	Stbd 270°
Xeus Kilo			3002 3406 2945 460
Xeus Telo			3000 3401 3701 980
Xeus Rover	725		3004 3406 3443 730
Xeus Rover	726		3004 3406 3448 720
PCO ₂ :			
Antenna	156		
SBE16	50376		
Eco	5238		
SBE63	2670		
SATI	P-210		v.1.3.5
SPAN GAS	J802862		~1500 PSI, flowrate 8-8.5

†Depth below buoy deck in centimeters

ARRAY NAME AND NO. STRATUS 2 / MOORED STATION NO. _____

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
1		buoy			13:10	19:25	WVD portside + all RASS except STBD damaged @ recovery
2	0.22	3/4 chain					
3		SBE37	2	1325 ✓	13:10	19:25	
4	0.37	3/4 chain					
5		SBE37	3.7	1326 ✓	13:10	19:33	
6		SBE39	4.9	5275 ✓	13:10	19:33	load bar ↑ connected to buoy
7	1.3 ✓	3/4 chain					
8		Empty cage	7			19:33	
9	1.5 ✓	3/4 chain					
10		SBE37	10	1328 ✓	12:47	19:38	
11	1.73	3/4 chain					
12		Nortek ADCP	13	17784 ✓	12:45	19:38	
13	1.35 ✓	3/4 chain					
14		SBE37	16	1329 ✓	12:43	19:40	
15	2.7 ✓	3/4 chain					
16		Seaguard	20	144 ✓	12:40	19:42	
17	3.66 ✓	3/4 chain					
18		SBE39	25	38 ✓	12:37	19:45	
19	3.9 ✓	3/4 chain					
20		SBE37	30	1330 ✓	12:35	19:49	conductivity sensor twisted
21	1.12	3/4 chain					
22		empty cage	32.5		12:33	19:49	No REC II (no battery) ✓
23	1.2	3/4 chain					
24		SBE39	35	3439 ✓	12:32	19:50	
25	3.9	3/4 chain					

ARRAY NAME AND NO. STRATUS 21 MOORED STATION NO. _____

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
26		SBE37	40	8211	✓ 12:30	1752	Copper guard damaged
27	3.66	3/4 chain					
28		Seaguard	45	138	✓ 12:27	1808	rubber cap on O ₂ sensor removed ✓
29	16	7/16 wire					
30		SBE39	50	48	✓ 12:30	1806	clamped
31		SBE39	55	49	✓ 12:31	1805	clamped
32		SBE37	62.5	8212	✓ 13:20	1800	
33	16	7/16 wire					
34		SBE39	70	102	✓ 13:24	1758	clamped
35		SBE39	77.5	103	✓ 13:26	1756	clamped
36		RDI AXP	80	1218	✓ 13:31	1753	looking up
37	6	7/16 wire					
38		SBE37	85	1909	✓ 13:34	1751	clamped
39		Seaguard	87.3	140	✓ 13:40	1749	
40	18.2	7/16 wire					
41		SBE39	92.5	203	✓ 13:41	1747	clamped
42		SBE39	100	276	✓ 13:43	1746	clamped
43		Empty case	107		13:46	1744	No Seaguard (LS)
44	21.5	7/16 wire					
45		SBE39	115	284	✓ 13:52	1742	clamped
46		SBE37	130	8215	✓ 13:55	1739	
47	14	7/16 wire					
48		Seaguard	145	141	✓ 14:00	1735	black rubber removed
49	13.5	7/16 wire					
50		SBE37	160	8216	✓ 14:05	1732	

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
51	21.7	7/16 wire					
52		SBE39	175	719	14:06	1730	clamped
53		Empty Cage	183		14:11	1729	No Seaguard (LS)
54	5.5	7/16 wire					
55		SBE37	190	12258	14:16	1725	
56	29	7/16 wire					Lot of chuffing
57		SBE37	220	12256	14:21	1721	
58	13.5	7/16 wire					
59		Seaguard	235	142	14:24	1718	removed black rubber
60	53.5	7/16 wire					wire cable is damaged (250 m)
61		SBE39	280	720	14:32	1715	
62		Seaguard	290	143	14:36	1712	
63	58.5	3/8 wire					
64		SBE37	295	1906	14:37	1711	clamped
65		Empty Cage	350		14:42	1706	No Seaguard (LS)
66	48.5	3/8 wire					
67		VNCH	400	2001	14:50	1659	Tpod 30. Spike 14:48
68	48.5	3/8 wire					
69		Seaguard	450	181	14:56	1656	rubber removed
70	148.5	3/8 wire					OVER: A CUT WITH
71		SBE37	550	10602	15:02	1650	with pressure, clamped
72		Seaguard	600	182	15:09	1646	
73	100	3/8 wire					
74		SBE37	601	1908	15:09	1645	clamped
75		SBE37	698	8218	15:26	1639	clamped

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Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
76		Empty cage	700		✓ 15:26	16:37	Moved instrument to 20m
77	100	3/8 wire					
78		VTCM	802	2062	✓ 15:35	16:29	Tpod 40 . Spike 15:33
79	48.5	3/8 wire					
80		VTCM	853	2065	✓ 15:40	16:24	Tpod 59 . Spike 15:39 Lost a blade on top prop
81	1157	3/8 wire					
82		SBE37	857	8219	✓ 15:42	16:27	clamped
83		SBE37	1354	6929 6929	✓ 16:03	16:07	clamped 2 screw bracket out of top mounting bracket
84		SBE37	1557	6730	✓ 16:11	16:00	clamped / TOP clamped mainstem screws <small>back top</small>
85		SBE37	2000	7218	✓ 16:29	15:30	clamped
86	100	3/8 wire			16:30	15:27	
87	200	7/8 Nylon			16:35	15:19 <small>part</small>	
88	1700	7/8 Nylon				1341 start	begins 16:51 / 17:25
89	1500	Colmag					17:25 / 17:55
90		Glass balls (42)				12:35	broken ~ 5 18:25 / 19:08
91		SBE37	4200	11379	✓ 20:42	12:39	begin 19:56
92		SBE37	4200	11394	✓ 20:42	12:39	
93	5	1/2 chain					
94		Release			20:44	12:45	
95		Release			20:44	12:45	
96	1	chain + link					
97	5	1/2 chain					
98	20	1" Samson			20:44		
99	5	1/2 chain					
100		Anchor			20:47		4240 m depth

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Date/Time	Comments
^{Deployment:} 1) The green boot	at top of 53.5 wire shot moved
2) ~ 255m wire	cable is damaged. Nico repairs with tape
3) Screw and tape added to item 75	
	<u>Recovery:</u>
	All winches stop working (Wilson, Pine Split) except
	Split Net down early in Calmays recovery. Will
	need a system reboot but we keep going until we
	get into wire for now.