

Moored Station Log

(fill out log with black ball point pen only)

ARRAY NAME AND NO. STRATUS-19 MOORED STATION NO. _____

Launch (anchor over)

Date (day-mon-yr) 2021-01-28 Time 22:43 UTC
Deployed by Llanos Recorder/Observer Husbrovek
Ship and Cruise No. Cabo de Hornos Intended Duration _____
Depth Recorder Reading _____ m Correction Source Multibeam EN 122
Depth Correction 0 m local S.S profile
Corrected Water Depth 4230 m Magnetic Variation (E/W) N/A
Anchor Drop Lat. (N/S) 22 31.2 (S) Lon. (E/W) 85 47.6 (.793)
Surveyed Pos. Lat. (N/S) 22.31.16023 Lon. (E/W) 85 47.7925
Argos Platform ID No. N/A Additional Argos Info on pages 2 and 3

Acoustic Release Model EDGE TECH 8242 Tested to 1500 m

Release No. 1 (sn) <u>51918</u>	Release No. 2 (sn) <u>33409</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>340057</u>	Enable <u>361073</u>
Disable <u>340074</u>	Disable <u>361102</u>
Release <u>335403</u>	Release <u>346362</u>

RELEASE DID NOT RESPOND AFTER DEPLOYED

Recovery (release fired)

Date (day-mon-yr) 7-4-2022 (top) Time 18:05 UTC
Latitude (N/S) 22° 30.760' Longitude (E/W) 085° 47.763
Recovered by Llanos Recorder/Observer Bigore / Husbrovek
Ship and Cruise No. AGS 61 Cabo de Hornos Actual duration _____ days
Distance from waterline to buoy deck 45 cm

ARRAY NAME AND NO. S19

MOORED STATION NO. 1

Surface Components

Buoy Type MOB Color(s) Hull Tower Blue / yellow / white

Buoy Markings "IF FOUND..."

Surface Instrumentation

Item	ID #	Height*	Comments
Logger	L04		System #1
IR modem			IMEI - 300234063167110
HRH	248	235	
BPR	221	234	
WND	239	271	
PRC	506	253	
LWR	205	284	
SWR	502	284	
SST	1838	-152	
Logger	L14		System #2
IR modem			IMEI - 300234063441050
HRH	269	235	
BPR	210	234	
WND	701	271	
PRC	219	253	
LWR	208	284	
SWR	210	284	
SST	3605	-152	
HC2A-S3	12718280/22208456	230	
SBE39 AT	0477	230	
VWX	201	247	SD CARD
SA HRH	703	230	
SA SWR _{kg}	221	284	KZ

*Height above buoy deck in centimeters

ARRAY NAME AND NO. S19 MOORED STATION NO.

Subsurface Instrumentation on Buoy and Bridle			
Item	ID #	Depth†	Comments
SST	2065	-85	SBE 56 - 90° STBD
SST	2066	-115	SBE 56 - 0° BOW
SST	2067	-85	SBE 56 - 0° BOW
SST	2068	-85	SBE 56 - 270 PORT
Melo		v. 24.0	300034013207760
Kilo			300234068727610
Lower	726		300434063448720
Upper	725		300434063443730
PCO2			

†Depth below buoy deck in centimeters

ARRAY NAME AND NO. S19

MOORED STATION NO. 1051A

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
1		Buoy	Ø	—	1310	1600	(14-7-2022)
2	.22	3/4 chain					
3		SBE 37	2	1325	1310	1600	
4	.37	3/4 chain					
5		SBE 37	3.7	1326	1310	1621	out of water - SHACKLE LINK SHACKLE -
6		SBE 39	4.9	ØØ35		1621	
7	1.3	3/4 chain					
✓ 8		RCM11	7	78	1310	1621	
9	1.5	3/4 chain					
✓ 10		SBE 37	10	1328	1310	1621	
11	1.73	3/4 chain					ship turns ~ 180° into the wind stop paying in
✓ 12		NO-Tek	13	11437	1300	1720	Damaged head, blue paint: 1 MHz Profiler crushed on ship @ recovery?
13	1.35	3/4 chain					
✓ 14		SBE 37	16	1329	12:40	1720	
15	2.7	3/4 chain					
✓ 16		RCM 11	20	79	12:37	1725	
17	3.66	3/4 chain					
18		SBE 39	25	ØØ38	12:33	1725	
19	3.90	3/4 chain					
✓ 20		SBE 37	30	1330	12:30	1729	
21	1.12	3/4 chain					
✓ 22		RCM11	32.5	13	12:30	1729	
23	1.20	3/4 chain					
24		SBE 39	35	ØØ45	12:25	1730	
25	3.90	3/4 chain					

ARRAY NAME AND NO. S19 MOORED STATION NO. _____

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
26		SBE37	40	8211	12:19	1731	
27	3.66	3/4 chain					
28		SeaGuard	45	138	12:15 _z	1735	START 12:15 _z
29	16	7/16 wire				1744	
30		SBE39	50	0048		1745	clumped
31		SBE39	55	6049		1745	clumped
32		SBE37	62.5	8212	12:32	-	load BAR <small>on WIRE PAYOUT BEFORE BUOY DPLY.</small>
33	16	7/16 wire					
34		SBE39	70	0102		1757	
35		SBE39	77.5	0103	1336	1758	
✓ 36		TRDI	80	1218	1336	1759	CAGE
37	6	7/16 wire					
✓ 38		SBE37	85	1909	1344	1805	w/ pressure clipped
✓ 39		SeaGuard	87.3	140	1344	1806	CAGE w/ optode
40	18.2	7/16 WIRE	12.5				
✓ 41		SBE39	92.5	203	1344 1401	1810	clipped
42		SBE39	100	276	1401	1812	clipped
✓ 43		SeaGuard	107	961		1814	CAGE w/ optode
44	21.5	7/16 wire					191724 /
✓ 45		SBE39	115	284		1830	
✓ 46		SBE37	130	8215	1415	1832	LOAD BAR
47	14	7/16 wire					plastic sleeve not fully tight on 19172-10 bulkhead connector
✓ 48		SeaGuard	145	141	1418	1837	reducers eyes blocked by cage
49	13.5	7/16 wire					19172-2
✓ 50		SBE37	160	8216	1421	1842	load BAR

ARRAY NAME AND NO. S19

MOORED STATION NO. _____

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
51	21.7	7/16 wire					19172-3
✓ 52		SBE 39	175	719	1424	1847	clumped
✓ 53		Sea Guard	183	964		1848	CAGE w/ optode
54	5.5	7/16 wire					19172-14
✓ 55		SBE 37	190	12258	1431	1854	
56	29	7/16 wire					19172-2
✓ 57		SBE 37	220	12256	1435	1858	
58	13.5	7/16 wire					19172-11
✓ 59		Sea Guard	235	142	1437	1903	
60	53.5	7/16 wire					19172-1
✓ 61		SBE 39	280	720	1441		
✓ 62		Sea Guard	290	143	145 145	1910	cage bar partially in front of Xducer
63	58.5	3/8 wire					19172-25
✓ 64		SBE 37	295	1906	¹⁴⁴⁷ 1450	1912	
✓ 65		Sea Guard	350	969	1451	1914	IN OUT
1916 ✓ 66	48.5	3/8 wire			48.5m ^{400m} 380 380 wire ⁴⁵⁰	VMCM 2001 ¹⁴⁵⁸ 1458 ¹⁹¹⁷²⁻²⁹ 1921	1925
						Sea Guard 181	1504
✓ 67		SBE 37	550	10602	15:11	1933	clump w/ pressure
✓ 68		Sea Guard	600	182	15:20	1937	optode cage
69	100	3/8 wire					19172-21
✓ 70		SBE 37	601	1408	15:20	1937	clumped below termination
✓ 70		SBE 37	698	8218	15:29	1946	clump ABOVE termination
✓ 71		Sea Guard	700	144	15:29	1948	
72	100	3/8 wire					19172-22
73		VMCM	802	2062	15:37	1954	1954 spike recovery 1535 - spike 2000-20
74	48.5	3/8 wire					19172-27
75		VMCM	853	2065	1545	2000	spin 2000 recovery spike 1542

Terminating
 Spikes
 19172-25
 19172-27
 19172-29
 19172-31

SPIKE M56
 48 19172

ARRAY NAME AND NO. 519

MOORED STATION NO. _____

Item No.	Length (m)	Item	Depth	Inst No.	Time Over	Time Back	Notes
76	145	3/8 wire					1972-18
✓ 77		SBE 37	857	8219	1550	2004	→ end of recovery
78		VMCM	1000	2079	1555		T-1 15-55- SPICE
79	800	3/8 wire					1972-15
✓ 80		SBE 37	1354	8220	16:33		CHAFFING ON LINE FROM SPLIT NET DRUM
81		VMCM	1506	2080	17:16		spike 17:00
82	500	3/8 wire					CHAFFING ON LINE FROM ON SPLIT NET DRUM
✓ 83		SBE 37	1557	8221	17:23		
✓ 84		SBE 37	2000	8224	18:23		
✓ 85		VMCM	2009	2091	18:35		18:24 SPIKE
86	100	3/8 wire					Special termination 1845
87	200	7/8 nylon					
88	1700	7/8 nylon			0120 *windbreak		no wuzzle in nylon on recovery. second wuzzle
89	1200	7" colmega				22:00 (end)	300m removed from V.2-Drawing
90	(92)	17" GLASS BALLS			21:17	22:48	23 SDB of 4 5GB ONE BROKEN BAD recovered broken
91		SBE 37	4200	11394	22:37	2253	
92		SBE 37	4200	11379	22:37	2253	
93	5	1/2 TRAWL CHAIN					
94		8242	51918		22:37	2257	Acoustic releases confirmed on disabled
95		8242	33409		22:37	2257	Acoustic releases
96	5	1/2 TRAWL CHAIN					
97	20	1" Nystrom					
98	5	1/2 TRAWL CHAIN					
99		ANCHOR	4240		22:43		9300 (air) / 8000 lbs. (wet)
100							

||||| |||

* Break at nylon splice made at rigging shop.

ARRAY NAME AND NO. Stratus 19 MOORED STATION NO. _____

Date/Time	Comments
	One of the Optode sensor was deployed
	with cap still on it. Probably a
	shallow sensor above 70m (the
	cap was found on deck during
	recovery, with barnacles growing on it).
	Recovery occurred in two steps:
	April 3 2022: bottom part: releases to upper nylon
	April 7 2022, top part: buoy to SBE37 at
	857 m
	Mooring broke in 2 parts: upper nylon and
	wire near 1000 m. Instruments in between
	(3 VADTs, 3 SBE37) are lost at sea.