

Moored Station Log

PAGE 1

(fill out log with black ball point pen only)

ARRAY NAME AND NO. Stratus I MOORED STATION NO. 1052**Launch (anchor over)**

Date 7 October 2000 Time 20:43:00 UTC
day-mon-year

Latitude 20°09.508 N or (S) Longitude 85°08.272 E or (W)
deg-min deg-min

Position Source: GPS, LORAN, SAT. NAV., OTHER GPS

Deployed by: Ostern, Bouhard, Dunn, Rydes Recorder/Observer: Sandy Lucas

Ship and Cruise No. Heville, Cook 02 Intended duration: 365 days

Depth Recorder Reading 4440 m Correction Source: Sea beam

Depth Correction 0 m

Corrected Water Depth 4440 m Magnetic Variation: 8.3 (E) or W

Anchor Position: Lat. 20°9.4174 N or (S) Long. 85°9.0729 E or (W)

Argos Platform ID No. See Next page Additional Argos Info may be found
on pages 2 and 3.

Acoustic Release Information

Release No. 339 Tested to 1000 meters
Enable 42 Disable 41

Receiver No. 4 Release Command 43

Interrogate Freq. 11 kHz Reply Freq. 10 kHz

Recovery (release fired)

Date 17 October 2001 Time 12:39:00 UTC
day-mon-year

Latitude 20°07.409 N or (S) Longitude 85°08.432 E or W
deg-min deg-min

Position Source: GPS, LORAN, SAT. NAV., OTHER GPS

Recovered by: Ostern, Bouhard, Lord, Gobat Recorder/Observer: Charlotte Valle

Ship and Cruise No. R-H Brown 0201 Actual duration: 1 days

Distance from actual waterline to buoy deck 58 meters

Surface Components

Buoy Type 3m Discus Hull Color(s) Hull Blue & White Tower White
 Buoy Markings w/ Gray Stripe

Surface Instrumentation			
Item	ID	Height *	Comments
Data logger	117	—	located in well / System # 1
Relative Humidity	HRH 108	231 cm	(tip of sensor) Relative to buoy deck
Wind module	WNB 104	296 cm	(Prop. axis)
Air temp.	TNP 102	161 cm	(End of probe)
Barom. Pressure	BPR 107	236 cm	(center of Port)
Short wave Rad.	SWR 111	314 cm	(base of dome)
long wave Rad.	LWR 101	315 cm	(" ")
Precipitation	PRE 102	271 cm	(Top of funnel)
Argos Trans	PTT 27916		PTT 101
	27917		
	27918		
Data logger	226		located in well / System # 2
Relative humidity	HRH 110	234 cm	(tip of sensor)
Wind module	WNB 105	289 cm	(prop. axis)
Air Temp	TNP 104	159 cm	(end of probe)
Barom. Pressure	BPR 106	240 cm	(center of Port)
Short wave Rad.	SWR 109	314 cm	(base of dome)
long wave Rad.	LWR 006	315 cm	(" ")
precipitation	PRE 101	274 cm	(Top of Funnel)
ARGOS TRANS	PTT 27919		PTT 104
	27920		
	27921		
Relative Humidity	HRH 204	232 cm	(tip of sensor) Stand Alone
Tidbit Air temp	358910	177 cm	Tied to TNP 104 (bys #2 Air temp)
Flashing light	24412	279 cm	Solar Power (mid Height)
Radar Reflector	none	211 cm	(mid height)

* Height above buoy deck

Sub-Surface Instrumentation on Buoy and Bridle

Item	ID	Depth †	Comments
INET/SST	SST 003	1m	System # 1
INET/SST	SST 104	1m	System # 2
Seacat	1878	1m	
Tidbit	358909	1m	located on bridle next to SST #1
Argos Trau ^{PTT}	11427		clamped to bridle
SBE 39	0072	0m	Floating SST
Bridle	-	-	No tension logged Termination of bridle to 0.42 m. 3/4" Proof coil Chain is: U-joint → 1" chain shackle → 1" endlark → 7/8" chain shackle.
† Depth below buoy deck			

Sub-Surface Components

	Type	Size(s)	Manufacturer		
Chain					
Wire Rope					
Synthetics					
Hardware					
Flotation	Type (G.B.s, Spheres, etc)	Size	Quantity	Color	
	G.B.s w/ Hard Hats *	17"	81	yellow	
	* lost at least 1 after deployment (see page 10)				
No. of Flotation Clusters	1				
Anchor Dry Weight	9300 lbs				

MOORED STATION NUMBER 1052

Item No.	Lgth [m]	Item	Inst No.	Time Over	Notes	Data No.	Calc Dpth	Time Back	Notes
1	0.48	3/4" Proof Coil Chain							
371	2	Seacat w/ leadline	1873	13:27:30	Int. hanging upside, but not out			20:45	
	2.06	3/4" P.C.C							
7		Seacat w/ leadline	1873	13:26:50				20:46	
	1.3	3/4" P.C.C							
10		3/4" vnen	VN 038	13:21:50	Bands off 1/2 @ 13:20:45			20:47:30	
	-	Tidbit on @ vnen cage	358907	13:30:45				20:47:30	
	0.82	3/4" P.C.C							
13		TPCB w/ leadline	3763	13:30:22				20:50:00	
	1.78	3/4" P.C.C							
16		Seacat w/ leadline	2325	13:38:17				20:51	
	-	Tidbit on @ seacat hook	358908	13:38:17				20:51:20	
	2.26	3/4" P.C.C							
20		3/4" vnen cage	VN 037	13:19:01	Bands off			20:53:10	
	0.96	3/4" P.C.C							
23.5		Rain Gauge Transf slip	F9	13:21:55				20:50:40	
	0.48	3/4" P.C.C							
25		CHLAN	ACH0126	13:21:40				20:57	
25	-	SBE-39 located on CHLAN	0050	13:21:40				20:57	
	2.74	3/4" P.C.C							
Date/Time		Comments							
line 7		Ⓢ Tidbit collocated with the vnen Temp. sensor (see photo)							
line 12		Ⓢ Tidbit located on seacat leadline near temp sensor							
line 19		Ⓢ SBE-39 located on CHLAN (see photo)							
line 1 -> bridle		Ⓢ shed to bridle w/ a U-joint -> 1" chainshack -> 7/8" end link -> 7/8" chainshack							
all lines 1-75 to end when		Ⓢ 3/4" chain shack, 7/8" end link, 3/4" chain shack							

MOORED STATION NUMBER

1052

depth
from diagraph

	Item No.	Lgth [m]	Item	Inst No.	Time Over	Notes	Data No.	Calc Dpth	Time Back	Notes
30	21		Sea cat w/ leadline	1880	13:21				20:58:40	blacked Top
	22	3.7	3/4" PCC							
35	23		TPOB w/ leadline	4491	13:18				21:00:00	
	24	3.77	3/4" PCC							
40	25		Temp cat w/leadline	1328	13:18				18:49:10	high resistance two - fouled
	26	6.2	7/16" wire						19:47:35	
47.5	27		TPOB w/ leadline	3301	13:59:30				19:47:35	
	28	6.2	7/16" wire						19:45:40	
55	29		TPOB w/ leadline	3831	14:02:40				19:45:40	#?
	30	6.2	7/16" wire						19:43:40	
62.5	31		Temp cat w/leadline	1326	14:04:25				19:43:40	beavils & pellets
	32	6.2	7/16" wire						19:41:30	
70	33		TPOB w/ leadline	3830	14:07:50				19:41:30	beavils
	34	6.2	7/16" wire						19:39:18	
77.5	35		TPOB w/ leadline	3764	14:09:30				19:39:18	beavils
	36	6.2	7/16" wire							
85	37		Temp cat w/leadline	1305	14:11:50				19:35:15	beavils
	38	6.2	7/16" wire							
92.5	39		TPOB w/ leadline	3258	14:12:35				19:33:45	beavils
	40	6.2	7/16" wire							
Date/Time		Change from original design		Comments		3.71m - 62.5m				
line 31		Switched		Temperature w/ Secant due to lack of Anti foul Rings for minutes						

MOORED STATION NUMBER 1052

*depth
from drawing*

	Item No.	Lgth (m)	Item	Inst No.	Time Over	Notes	Data No.	Calc Dpth	Time Back	Notes
100	41		TPOB w/ leadline	3263	14:17:55				19:31:45	
	42	3.43	3/4" P.C.C							Fail
	43	0.61	3/4" P.C.C			9 link				Fail
	44	9.4	7/16" wire						19:28:20	
115	45		TPOB w/ leadline	4495	14:21:10	end cap says sw: 4492			19:28:20	
	46	14.0	7/16" wire							
130	47		New lat @ w/ leadline	1330	14:24:55				19:25:00	#?
	48	3.43	3/4" P.C.C							
135	49		ABCP upward facing		14:29:20				19:23:22	Jelly Barnacle
	50	8.5	7/16" wire							
145	51		TPOB w/ leadline	4485	14:30:29				19:20:35	
	52	14.0	7/16" wire							
160	53		TPOB w/ leadline	4228	14:34:45				19:16:15	few barnacle
	54	28.5	7/16" wire							
190	55		Pinnacat w/ leadline	1306	14:38:45				19:11:20	#?
	56	28.5	7/16" wire							
220	57		TPOB w/ leadline	3836	14:40:02				19:07:04	
	58	13.0	7/16" wire							
235	59		F51-30 An sonar clam	1325A	14:44:25				19:02:35	1 angle completely damaged
	60	14.0	7/16" wire							
Date/Time		Comments								
		Change from original drawing: Switched 16m mooring of 130m - suspect due to lack of Anti-Foul plates								

MOORED STATION NUMBER

1052

depth from
showing

Item No.	Lgth [m]	Item	Inst No.	Time Over	Notes	Data No.	Calc Dpth	Time Back	Notes
250 61		7000 w/ together	3259	14:46:10				18:59:50	
62	100.0	3/8" wire							
349 63		SBE-39 clamped to Newlon VN	0048	14:49:25				18:51:50	
350 64		3/4" cage	VN 01	14:49:25	bands off H ₂ O: 14:54:10			18:51:54	when notes stopped (time)
65	100.0	3/8" wire							
450 66	—	SBE-39 clamped just above wire end	0049	15:10:45				18:45:35	
67	300.0	3/8" wire						18:39:00	
68	500.0	3/8" wire						18:29:00	
69	500.0	3/8" wire						18:17:19	
70	200.0	3/8" wire		15:56:20				18:13:30	
71	100.0	3/8" wire		16:10:00	wire separate see note			18:10:40	
72	200.0	3/8" Nylon			special team in-line between			18:06:40	
73	500.0	3/8" Nylon						17:51:30	
74	150.0	3/8" Nylon		16:38	Adjusted from 350 due to H ₂ O depth			16:56:21	making stop off because proximity at 19.3
75	500.0	3/8" Nylon						16:50:50	
76	500.0	3/8" Nylon						16:38:40	
77	100.0	1" Nylon							
78	1400.0	1 1/8" Polypro							
79	(81)	17" glass floats		19:48				14:15:00	4 G. B. floats
80	5	1/2" Trawl							

Date/Time	Comments
line 63	SBE-39 is clamped to wire just above termination
line 66	SBE-39 is clamped to wire just above termination / lower bolt is clipped / sealed w/ O/R tape (see photo)
lines 71 & 72	wire + nylon are on piece w/a wrapped termination
line 74	reduced to 150 m from 350 m due to anchor depth of 4450 m
line 71	wire rubbed deck edge (approx 12 m above wire/nylon jct) / paper was made w/ nylon & black tape

MOORED STATION NUMBER

1052

Item No.	Lgth [m]	Item	Inst No.	Time Over	Notes	Data No.	Calc Dpth	Time Back	Notes
81		Acoustic release # 1	25290						
82	5.0	1/2" Trawl Chain							
83		Acoustic release ECF Model 322	339	20.24.20	Redund string disabled at 21:38			14:30	
84	5.0	1/2" Trawl Chain							
85	20.0	1" Samson Nylon							
86	5.0	1/2" Trawl Chain							
87		Anchor (8000 lbs in H ₂ O)		20.47.00	20°09 508.3 85°08.878W				
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
Date/Time		Comments							
line 81		Base Release: Integrate Frequency 11kHz Reply 12kHz Release 302632							
line 83		Acoustic Release Receiver # 4 11 Reels of Poly on ar32 Release 323616							

MOORED STATION NUMBER

1052

Date/Time	Comments
Oct 8 2000	Standing by buoy - Fished out part of hard hat (Imploded ball)
Oct 17 2001	1224 trying to enable test release
"	enable then UTC primarily release
"	Tissue from top to 100 m: blocked by biofilm After 100 m → hairs + goose-neck branches (polleipes) ↳ Esquirollages
"	11 seals of poly on AR 32
Oct 18 2001	Magnetic declination variation of 8° 