

POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 1 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
TEST	22	1115	32°42.4'N	117°31.8'W	TEST CTD DEPLOYED	HG
TEST	22	1135	32°42.3'N	117°31.8'W	TEST CTD ON DECK	HG
TEST 2	23	1015	32°39.8'N	117°23.0'W	TEST CTD ² DEPLOYED	HG
TEST 2	23	1026	32°39.8'N	117°23.0'W	TEST CTD ² @ 231M	HG
TEST 2	23	1044	32°39.9'N	117°23.1'W	TEST CTD ² ON DECK	HG
SED TRAP	24	1407	34°14.3'N	121°42.8'W	SEDIMENT TRAP DEPLOY. START	CS
SED TRAP	24	1506	34°14.8'N	121°43.2'W	SEDIMENT TRAP DEPLOYMENT COMPLETE	CS
CTD 1	24	1619	34°17.4'N	121°38.5'W	CTD ¹ DEPLOYED	JM
CTD 1	24	1643	34°17.4'N	121°38.7'W	CTD ¹ ON DECK	JM
CTD 2						
CTD 2						
CTD 2						
CTD 3						
CTD 3						
CTD 3						
CTD 4						
CTD 4						
CTD 4	24	1903	34°13.6'N	121°43.8'W	CTD ⁴ ON DECK	JM
CTD 5	24	1930	34°12.2'N	121°48.5'W	CTD ⁵ DEPLOYED	JM
CTD 5	24	1940	34°12.3'N	121°48.6'W	CTD ⁵ @ 200M	JM
CTD 5	24	1947	34°12.3'N	121°48.7'W	CTD ⁵ ON DECK	JM
CTD 6	24	2105	34°10.9'N	121°40.7'W	CTD ⁶ DEPLOYED	HG
CTD 6	24	2112	34°11.0'N	121°40.8'W	CTD ⁶ @ 200M	HG
CTD 6	24	2121	34°11.08'N	121°40.97'W	CTD ⁶ ON DECK	HG
CTD 7	24	2226			CTD ⁷ DEPLOYED	HG
CTD 7	24	2235			CTD ⁷ @ 200M	HG
CTD 7	24	2242	34°13.8'N	121°44.72'W	CTD ⁷ ON DECK	HG
CTD 8	24	2330	34°13.0'N	121°42.7'W	CTD ⁸ DEPLOYED	HG
CTD 8	24	2338			CTD ⁸ @ 200M	HG
CTD 8	24	2353	34°13.1'N	121°43.0'W	CTD ⁸ ON DECK	CS
BONGO 1	25	0045	34°12.0'N	121°42.4'W	CTD BONGO DEPLOYED	CS
BONGO 1	25	0121	34°12.1'N	121°43.5'W	BONGO RECOVERED	CS

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 2 OF 9

Station Number	Date June	Time ZD+8 APAC +7	Latitude North	Longitude West	Remarks	Init.
	25	0515	34-12.3	121-43.3	DRIFTER DEPLOYED	gfr
	25	0634	34-13.7	121-45.1	1KMT DEPLOYED	gfr
1KMT	25	0854	34-17.9 S	121 48.4 W	1KMT on deck	gfr
Bongo	25	1108	34 10.7 N	121 43.317 W	Drifter redeployed	gfr
	25	1142	34 10.4' N	121° 43.1' W	Bongo deployed	gfr
		1215	34° 10.4'	121° 44.1' W	BONGO RECOVERED.	CS
		1244	34° 10.5' N	121 44.5 W	CTD DEPLOYED	CS
		1303	34° 10.8' N	121 44.6 W	CTD @ 500	CS
		1332	34 10.9' N	121 45.1' W	CTD RECOVERED	CS
			34 11.6	121 46.0	DRIFTER CS	C
		1530	34° 10.8' N	121° 43.5' W	DRIFTER RECOVERED	CS
		1536	34° 10.9' N	121 43.7 W	DRIFTER DEPLOYED	CS
		1626	34-12.3 N	121-44.6 W	1KMT DEPLOYED	gfr
	25	1801	34-15.3	121-46.5 W	1KMT ON DECK	gfr
38	25	1940	34-10.6 N	121-42.9 W	THORIUM PUMP DEPLOYED	gfr
39	25	2058	34 10.98 N	121 43.85	Thorium pump on deck	gfr
40	25	2113	34 11.08 N	121 44.07 W	CTDII deployed	gfr
41	25	2118	34 11.117	121 44.24 W	CTD @ 100M	gfr
42	25	2128	34 11.16	121 44.34	CTDII on deck	gfr
43	25	2255	34 03.7	121 44.8 W	Bongo deployed	gfr
44	25	2308	34 03.77	121 45.298	Bongo on deck	gfr
45	25	2323	34 03.84 N	121 45.9 W	Bongo deployed	gfr
46	25	2342	34 03.89	121 46.56 W	Bongo on deck	gfr
	25	2352	34° 03.9' N	121 46.8' W	BONGO DEPLOYED	CS
	26	0012	34° 03.9' N	121° 47.3' W	BONGO RECOVERED	CS
	26	0017	34 04.0	121 47.5' W	BONGO DEPLOYED	CS
	26	0033	34 04.0	121 47.9' W	BONGO RECOVERED	CS
	26	0039	34 04.0	121 48.0' W	BONGO DEPLOYED	CS
	26	0058	34 04.0	121 48.4	BONGO RECOVERED	CS
	26	0215	34 06.4	121 44.0	CTD # 12 DEPLOYED	CS
	26	0228	34 06.6	121 44.4	CTD # 12 @ 200M	CS
	26	0247	34 06.7	121 44.9	CTD # 12 ON DECK	CS

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 3 OF 9

Station Number	Date <small>APRIL</small>	Time <small>ZD +8</small>	Latitude North	Longitude West	Remarks	Init.
	26	0435			RECOVER DRIFTER	gn
	26	0444	34-06.4	121-44.0	DRIFTER RE-DEPLOYED	gn
56	26	1029	34-03.9	121-42.4	BONGO DEPLOYED	gn
	26	1849	34-03.9Q	121-42.98	BONGO ON DECK	gn
		1212	34-04.2	121-43.1	CTD DEPLOYED	CS
		1232	34-04.2	121-43.3	CTD @ 200M	CS
		1248	34-04.2	121-43.7	CTD RECOVERED	CS
		1330	34-04.6	121-44.5	BONGO DEPLOYED	CS
		1507	34-05.3	121-47.1	BONGO RECOVERED	CS
		1518	34-05.3	121-47.3	BONGO DEPLOYED	CS
		1603	34-05.9	121-48.2	BONGO RECOVERED	gn
		1819	34-02.2	121-40.7	THORIUM PUMP DEPLOYED	gn
		1941	34-02.3	121-40.9	THORIUM PUMP ON DECK	gn
26	2205		33-59.74N	121-39.229 W	Bongo deployed	gn
	2220		33-59.8	121-39.97	Bongo on deck	gn
27	0214		33-58.5	121-39.8	CTD [#] 14 DEPLOYED	CS
	0230		33-58.6	121-40.0	CTD [#] 14 @ 200M	CS
	0232		33-58.6	121-40.3	CTD [#] 14 RECOVERED	CS
	0450		33-56.4	121-37.8	ARRAY RECOVERED	gn
	0702		34-02.9	121-40.3	SED TRAP RECOVERED	gn
66	1744		34-00.6	122-15.3	CTD DEPLOYED	gn
	1751		34-00.7	122-15.2	CTD @ 200M	gn
	1800		34-00.8	122-15.1	CTD RECOVERED	gn
68	1908		34-01.75	122-14.07	SED TRAP DEPLOYED	gn
69	2005		34-03.018	122-13.595	Bongo deployed	gn
70	2039		34-03.44	122-13.921	Bongo on deck	gn
71	2046		34-03.533	122-14.042	Bongo on deck	gn
72	2108		34-03.775	122-14.309	Bongo on deck	gn
73	2114		34-03.829	122-14.397	Bongo deployed	gn
	2135		34-04.009	122-14.649	Bongo on deck	gn
	2225		34-01.592	122-11.297	Bongo deployed	gn
79	27	2243	34-01.756	122-11.569	Bongo on deck	gn

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 4 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
	27	2322	34-02.428	122-11.8	1KMT deployed	
	28	0038	34°05.1'N	122° 13.2'W	1KMT RECOVERED	CS
		0158	34°02.8'N	122° 09.7'W	CTD DEPLOYED	CS
		0209	34° 02.9'N	122° 09.7'W	CTD @ 200M	CS
		0231	34°03.1'N	122° 10.0'W	CTD ON DECK	CS
82	28	0424	34°03.0'N	122° 06.0'W	ARRAY DEPLOYED	GM
		0512	34-01.3N	122-05.4W	1KMT DEPLOYED	GM
		0646	34-05.2N	122-06.8W	1KMT @ 1806M	GM
		0800	34-08.7N	122-07.059	1KMT on deck	HG
	28	1006	34-03.562	122-01.509	Bongo deployed	HG
	28	1027	34-03.740	122 01.778	Bongo on deck	HG
	28	1109	34 03.799	122 00.242	Thorium Pump dep	HG
		1233	34°03.8'N	122° 00.0'W	THORIUM PUMP RECOVERED	CS
		1243	34°03.9	122° 00.1'W	CTD DEPLOYED	CS
		1257	34°04.0'N	122°00.1'W	CTD @ 200M	CS
		1313	34°04.2'N	122° 00.2'W	CTD ON DECK	CS
87		1530	33°53.9'N	121°52.1'W	1KMT DEPLOYED	CS
		1653	33-58.6N	121-54.3 W	1KMT @ 1800M	GM
		1807	34-00.9N	121-55.6W	1KMT ON DECK	GM
88		1907	34-03.1N	121-53.3W	CTD DEPLOYED	GM
		1936	34-03.2N	121-53.5W	CTD @ 985M	GM
		2007	34 03.215N	121 53.592	CTD on deck	HG
		2023	34 03.287	121 53.812	Bongo dep	HG
		2046	34 03.435	121 54.169	Bongo on deck	HG
		2049	34 03.466	121 54.220	Bongo deployed	HG
		2112	34-03.623	121 54.527	Bongo on deck	HG
		2116	34-03.673	121 54.608	Bongo deployed	HG
		2138	34-03.858	121-54.936	Bongo on deck	HG
		2143	34-03.907	121-55.021	Bongo deployed	HG
		2206	34-04.130	121-55.361	Bongo on deck	HG
		2215	34-04.217	121-55.447	Bongo deployed	HG
103		2237	34 04.469	121 55.762	Bongo on deck	HG

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 5 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
	28	2241	34-04.50	121-55.834	Bongo deployed	HB
	28	2303	34-04.681	121-56.172	ON deck	HB
	28	2307	34-04.722	121-56.235	Bongo deployed	HB
108	28	2329	34-04.912	121-56.601	Bongo On deck	HB
	28	2334	34-04.986	121-56.737	Bongo deployed	HB
		2357	34°05.1'N	121°57.1'W	BONGO RECOVERED	CS
	29	0001	34°05.2'N	121°57.1'W	BONGO DEPLOYED	CS
		0028	34°05.5'N	121°57.5'W	BONGO RECOVERED	CS
		0032	34°05.5'N	121°57.6'W	BONGO DEPLOYED	CS
		0052	34°05.8'N	121°57.9'W	BONGO RECOVERED	CS
CTD 18		0212	34°01.5'N	121°50.4'W	CTD 18 DEPLOYED	CS
		0221	34°01.5'N	121°50.5'W	CTD @ 200M	CS
		0240	34°01.5'N	121°50.8'W	CTD ON DECK	CS
		0441	34 33-59.4N	121-46.9W	DRIFTER RECOVERED	HB
		0452	33-59.5N	121-47.0W	DRIFTER DEPLOYED	HB
114		0717	33-58.6N	121-45.7W	THORIUM PUMP DEPLOYED	HB
		0729	33-58.6N	121-45.8W	PUMP @ 106M	HB
	29	0854	33-58.910	121-45.927	Pump on deck	HB
		1003	33-57.382	121 44.104	Bongo deployed	HB
		1023	33 57.479	121 44.345	Bongo on deck	HB
		1031	33 57.549	121 44.483	Bongo deployed	HB
119	29	1051	33 57.657	121 44.717	Bongo on deck	HB
		1157	33°56.4'N	121°42.2'W	CTD 19 DEPLOYED	CS
		1206	33°56.4'N	121°42.1'W	CTD 19 @ 200M	CS
		1221			CTD 19 ON DECK	CS
		1248	33°56.8'N	121°42.1'W	IKMT DEPLOYED	CS
		1310	34°02.1'N	121°45.4'W	IKMT RECOVERED	CS
119		1918	33-51.8N	121-39.0W	THORIUM PUMP DEPLOYED	HB
		2034	33-52.1	121-39.4	Thorium Pump on deck	HB
		2052	33 52.378	121 39.713	IKMT deployed	HB
		2252	33-53.787	121-41.001	IKMT on deck	HB
		2315	3348.8	121-30.8	Bongo deployed	HB

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 6 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
		2341	33 48.8	121 37.2	Bongo on deck	AB
		2348	33° 48.8' N	121° 37.3' W	Bongo deployed	AB
30		0026 0246	33° 48.7' N	121 37.6' W	Bongo RECOVERED	CS
		0246	33° 46.9' N	121° 35.0' W	DRIFTER RECOVERED	CS
		0259	33° 46.8' N	121° 35.3' W	CTD #20 DEPLOYED	CS
		0308	33° 46.8' N	121° 35.4' W	CTD #20 @ 200M	CS
		0328	33° 46.7' N	121° 35.8' W	CTD #20 ON DECK	CS
		0701	33-50.3 N	121-33.26	SED TRAP RECOVERED	AB
		1147	34° 08.2' N	121° 15.1' W	Purpose net deployed	CS
		1208	34° 08.2' N	121° 15.2' W	PURPOSE NET RECOVERED	CS
		1212	34° 08.3' N	121° 15.2' W	CTD #21 DEPLOYED	CS
		1220	34° 08.3' N	121° 15.3' W	CTD #21 @ 200M	CS
		1226	34° 08.4' N	121° 15.4' W	CTD #21 ON DECK	CS
30		2100	34 33 56.227	121 34.237	Purpose net deployed	AB
		2101	33 56.230	121-34.285	Purpose net on deck	AB
30		2116	33 56.247	121 34.247	CTD #22 deployed	AB
		2126	33-56.256	121-34.259	@ 200M	AB
		2134	33-56.284	121-34.296	CTD #22 on deck	AB
		2200	33 -58.112	121 - 32.130	Purpose Net deployed	AB
		2212	33 58.094	121 32.229	Net on deck	AB
30		2215	33 58.081	121 32.266	CTD #23 deployed	AB
		2224	33 58.067	121 32.315	@ 200 M	AB
		2232	33 -58.058	121-32.376	CTD #23 on deck	AB
		2303	33-59.8	121-29.809	Purpose Net deployed	AB
		2313	33 59.726	121 29.898	Purpose Net on deck	AB
		2320	33 59.682	121 29.952	CTD #24 deployed	AB
		2326	33 59.66	121 30.009	@ 200M	AB
		2334	33 59.652	121 30.050	on deck	AB
		0009	34° 01.6' N	121° 27.4' W	PURPOSE NET DEPLOYED CTD #25 DEPLOYED CS	CS
		0039	34° 01.3' N	121° 27.6' W	PURPOSE NET DEPLOYED	CS
		0042	34° 01.2' N	121° 27.7' W	CTD #25 DEPLOYED	CS
		0049	34° 01.2	121° 27.8' W	CTD #25 @ 200M	CS

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 7 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
	1	0057	34° 01.1' N	121° 27.9' W	CTD [#] 25 ON DECK	CS
		0134	34° 03.5' N	121° 25.1' W	PURPOSE NET DEPLOYED	CS
		0145	34° 03.5' N	121° 25.3' W	PURPOSE NET RECOVERED	CS
		0149	34° 03.5' N	121° 25.4' W	CTD [#] 26 DEPLOYED	CS
		0158	34° 03.5' N	121° 25.7' W	CTD [#] 26 @ 200M	CS
		0207	34° 03.4' N	121° 25.9' W	CTD [#] 26 ON DECK	CS
		0240	34° 05.3' N	121° 22.6' W	PURPOSE NET DEPLOYED	CS
		0252	34° 05.3' N	121° 22.8' W	PURPOSE NET RECOVERED	CS
		0258	34° 05.2' N	121° 22.9' W	CTD [#] 27 DEPLOYED	CS
		0303	34° 05.2' N	121° 23.0' W	CTD [#] 27 @ 200 M	CS
		0312	34° 05.1' N	121° 23.2' W	CTD [#] 27 ON DECK	CS
		0356	34-07.4	121-20.1	PURPOSE NET DEPLOYED	CS
		0409	34-07.4	121-20.4	PURPOSE ON DECK	CS
		0418	34-07.49	121-20.57	CTD DEPLOYED	CS
		0425	34-07.49	121-20.67	CTD @ 200M	CS
		0434	34-07.55	121-20.80	CTD ON DE	CS
		0758	34 09.388	121 22.333	CTD#29 deployed	AG
		0805	34 09.315	121 22.500	CTD #29 @ 200	AG
		0813	34 09.290	121-22.692	CTD #29 on deck	AG
		0843	34-07.591	121-24.697	CTD #30 deployed	AG
		0849	34 07.606	121 24.740	CTD # 30 @ 200M	AG
		0857	34 07.644	121 24.752	CTD on deck	AG
		0926	34 05.776	121 26.956	CTD #31 dep	AG
		0933	34 05.834	121 26.901	@ 200 M	AG
		0941	34-05.885	121-26.895	CTD on deck	AG
		1010	34 03.904	121-29.361	CTD # 32 deployed	AG
		1017	34 03.902	121-29.278	CTD @ 200	AG
		1025	34-03.885	121-29.187	CTD on deck	AG
		1055	34 02.048	121-31.721	CTD #33	AG
		101103	34 02.019	121 31.706	CTD #33 @ 200	AG
		1110	34 02.018	121 31.690	CTD #33 on deck	AG
		1140	34-00.197	121-34.264	CTD #34 dep	AG

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POSITION DATA SHEET

R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 8 OF 9

Station Number	Date April	Time ZD +7	Latitude North	Longitude West	Remarks	Init.
		1146	34°00.1'N	121°34.3'W	CTD [#] 34 @ 200M	CS
		1154	34°00.1'N	121°34.3'W	CTD [#] 34 ON DECK	CS
		1222	33°58.3'N	121°36.4'W	CTD [#] 35 DEPLOYED	CS
		1230	33°58.3'N	121°36.4'W	CTD [#] 35 @ 200M etc	CS
		1239	33°58.4'N	121°36.4'W	CTD [#] 35 ON DECK	CS
		1320	33°54.3'N	121°31.9'W	CTD [#] 36 DEPLOYED	CS
		1326	33°54.3'N	121°31.9'W	CTD [#] 36 @ 200M	CS
		1334	33°54.3'N	121°31.8'W	CTD [#] 36 ON DECK	CS
		1359	33°56.2'N	121°29.7'W	CTD [#] 37 DEPLOYED	CS
		1406	33°56.2'N	121°29.7'W	CTD [#] 37 @ 200M	CS
		1414	33°56.2'N	121°29.7'W	CTD [#] 37 ON DECK	CS
		1437	33°58.0'N	121°27.2'W	CTD [#] 38 DEPLOYED	CS
		1447	33°58.0'N	121°27.1'W	CTD [#] 38 @ 200M	CS
		1453	33°58.0'N	121°27.1'W	CTD [#] 38 ON DECK	CS
		1518	33°59.8'N	121°24.8'W	CTD [#] 39 DEPLOYED	CS
		1526	33°59.7'N	121°24.8'W	CTD [#] 39 @ 200M	CS
		1536	33°59.5	121°24.8'W	CTD [#] 39 ON DECK	CS
		1604	34-01.7	121-22.39	CTD DEPLOYED	QA
		1620	34-01.70	121-22.34	CTD ON DECK	QA
		1646	34-03.61	121-20.07	CTD DEPLOYED	QA
		1655	34-03.57	121-20.12	CTD @ 200M	QA
		1701	34°03.5'N	121°20.1'W	CTD [#] 41 ON DECK	CS
		1728	34-03.39	121-17.69	CTD DEPLOYED	QA
		1737	34-05.40	121-17.72	CTD @ 200M	QA
		1744	34-05.39	121-17.73	CTD ON DECK	QA
		2100	34-05.456	121-22.513	CTD 42 deployed	HA
		2107	34-05.411	121-22.635	CTD @ 200M	HA
		2116	34-05.417	121-22.770	CTD on deck	HA
		2123	34-05.486	121-22.807	Bongo dep	HA
		2142	34-05.498	121-22.227	Bongo on deck	HA
		2149	34-05.493	121-23.401	Bongo deployed	HA
		2206	34-05.519	121-23.825	Bongo On Deck	HA

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R/V NEW HORIZON

CRUISE: STUKEL NH0903

22 April - 03 May 2009

SHEET 9 OF 9

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1		2223	34-05.54	121-22.6	1KMT deployed	HG
1		2246	34-05.944	121 23.587	1KMT@400M	HG
1		2317	34-06.351	121 24.267	1KMT on deck	HG
2		0020	34°01.6'N	121°27.0'W	CTD#43 DEPLOYED	CS
		0025	34°01.5'N	121°27.0'W	CTD#43 @ 200M	CS
		0034	34°01.2'N	121°26.9'W	CTD#43 ON DECK	CS
		0040	34°01.2'N	121°27.0'W	CTD#44 DEPLOYED	CS
		0045	34°01.3'N	121°27.1'W	CTD#44 @ 200M	CS
		0053	34°01.4'N	121°27.2'W	CTD#44 ON DECK	CS
		0058	34°01.5'N	121°27.2'W	BON60 DEPLOYED	CS
		0116	34°01.4'N	121°26.6'W	BON60 ON DECK	CS
		0126	34°01.2'N	121 26.4'W	BON60 DEPLOYED	CS
		0144	34°00.7'N	121°26.3'W	BON60 RECOVERED	CS
		0200	34°01.6'N	121°27.0'W	1KMT DEPLOYED	CS
		0221	34°02.2'N	121°27.6'W	1KMT @ 400M	CS
		0244	34°02.8'N	121°28.1'W	1KMT RECOVERED	CS
		0341	33°58.0'N	121°31.9'W	CTD#45 DEPLOYED	CS
		0349	33°57.80	121°31.96	CTD @ 210M	CS
		0403	33-57.61	121-31.97	CTD ON DECK	CS
		0409	33-57.58	121-32.02	BON60 DEPLOYED	CS
		0425	33-57.54	121-31.70	BON60 ON DECK	CS
		0430	33-57.40	121-31.72	BON60 DEPLOYED	CS
		0446	33-57.0	121-31.73	BON60 ON DECK	CS
		0500	33-57.38	121-31.94	1KMT DEPLOYED	CS
		0526	33-57.96	121-32.47	@ 400M	CS
		0551	33-58.79	121-33.30	1KMT ON DECK	CS
		0641	33-58.30	121-35.45	CTD DEPLOYED	CS
		0649	33-58.29	121-35.41	CTD @ 200M	CS
		0656	33-58.27	121-35.41	CTD ON DECK	CS
		0721	33-56.48	121-37.84	CTD DEPLOYED	CS
		0728	33-56.38	121-37.73	CTD @ 200M	CS
		0733	33-56.28	121-37.71	CTD ON DECK	CS

All positions are GPS unless otherwise indicated