ASTR96-1 104990
96016

Poppe/ ASTERIAS LONG IS SND
Persaud-NY ASTR 96-1 (96016) ROANOKE PT
June 11-17, 1996 FALKNER IS
DGPS NAVIGATION PRINTOUT (6/12-16/96)
LONG SAND SHOAL

				162:14:47:26	41	31.4680	-70	40.3080	0.1	296.0	3.4	19.3
				162:14:47:30	41	31.4680	-70	40.3070	0.2	310.0	3.4	19.3
162:14:48:00	41	31.4700	-70	40.3100	0.2	0.0	3.4	19.3				
162:14:49:00	41	31.4700	-70	40.3090	0.1	337.0	3.4	19.3				
162:14:50:00	41	31.4680	-70	40.3080	0.1	126.0	3.4	19.3				
162:14:51:00	41	31.4660	-70	40.3120	0.1	180.0	3.4	19.3				
162:14:52:00	41	31.4680	-70	40.3060	0.2	7.0	3.4	19.3				
162:14:53:00	41	31.4670	-70	40.3080	0.2	333.0	3.4	19.3				
162:14:54:00	41	31.4690	-70	40.3080	0.1	90.0	3.3	19.3				
162:14:55:00	41	31.4660	-70	40.3070	0.1	63.0	3.3	19.3				
162:14:56:00	41	31.4670	-70	40.3070	0.1	73.0	3.3	19.3				

AST 96-1

6/12/96

ROANOKE PT.

164:11:40:01	40	59.9060	-72	32.6230	4.4	339.0	0.0	20.0
164:11:45:01	41	0.2510	-72	32.8150	4.6	352.0	3.8	20.0
164:11:50:01	41	0.5790	-72	32.9580	4.1	334.0	3.6	20.0
164:11:55:01	41	0.8380	-72	33.1410	4.0	290.0	4.0	20.0
164:12:00:01	41	0.8530	-72	33.5480	5.3	326.0	3.7	20.0
164:12:05:01	41	1.0650	-72	34.1160	6.9	267.0	10.0	20.0
164:12:15:01	41	0.9870	-72	35.7960	8.1	275.0	17.6	20.0
164:12:20:01	41	1.0740	-72	36.6770	8.0	279.0	16.9	20.0
164:12:25:01	41	1.1740	-72	37.5240	5.7	282.0	17.3	20.0
164:12:30:01	41	1.1930	-72	37.6150	5.1	322.0	17.4	20.0
164:12:35:01	41	1.1910	-72	37.6930	3.6	275.0	17.5	20.0

164:12:40:01	41	1.2540	-72	38.0550	4.9	347.0	18.1	20.0
164:12:45:01	41	1.2850	-72	37.9840	4.1	169.0	18.1	20.0
164:12:46:37	41	1.2520	-72	38.0910	5.0	314.0	18.2	20.0
164:12:50:01	41	1.2380	-72	38.1130	4.9	269.0	18.2	20.0
164:12:51:41	41	1.2290	-72	38.2900	5.0	269.0	18.6	20.0
164:12:55:01	41	1.2540	-72	38.6500	4.9	277.0	19.5	20.0
164:13:00:01	41	1.2860	-72	39.1830	4.9	274.0	20.5	20.0
164:13:05:05	41	1.2380	-72	39.6870	4.6	259.0	22.1	20.0
164:13:13:35	41	1.1790	-72	40.5620	4.7	262.0	25.0	20.0
164:13:15:05	41	1.1610	-72	40.7130	4.6	261.0	25.6	20.0
164:13:20:00	41	1.1260	-72	41.2030	4.6	264.0	28.0	20.0
164:13:25:00	41	1.0870	-72	41.6970	4.6	258.0	30.3	20.0
164:13:30:05	41	1.0480	-72	42.1930	4.5	265.0	31.9	20.0
164:13:35:05	41	1.0150	-72	42.6840	4.2	265.0	33.0	20.0
164:13:35:39	41	1.0110	-72	42.7300	3.4	264.0	33.1	20.0
164:13:38:35	41	0.9860	-72	43.0110	3.0	269.0	33.1	20.0
164:13:40:05	41	0.9860	-72	43.0040	0.5	61.0	33.2	20.0
164:13:44:45	41	0.9780	-72	43.1160	4.6	256.0	33.3	20.0
164:13:45:05	41	0.9720	-72	43.1490	4.6	258.0	33.4	20.0
164:13:50:05	41	0.9390	-72	43.6540	4.6	262.0	32.8	20.0
164:13:55:05	41	0.9030	-72	44.1610	4.5	257.0	32.1	20.0
164:13:55:09	41	0.9020	-72	44.1680	4.6	257.0	32.0	20.0
164:13:58:25	41	0.8200	-72	44.1830	4.6	92.0	31.5	20.0
164:13:59:55	41	0.8300	-72	44.0300	4.5	81.0	31.6	20.0
164:14:00:05	41	0.8310	-72	44.0140	4.5	85.0	31.9	20.0
164:14:02:45	41	0.8530	-72	43.7480	4.6	72.0	0.0	20.0
164:14:05:05	41	0.8590	-72	43.5110	4.7	83.0	32.7	20.0
164:14:10:05	41	0.8870	-72	42.9930	4.9	78.0	33.2	20.0
164:14:15:05	41	0.9110	-72	42.4700	4.8	92.0	33.9	20.0
164:14:20:00	41	0.9400	-72	41.9430	4.8	89.0	32.5	20.0
164:14:25:00	41	0.9730	-72	41.3950	4.9	83.0	29.4	20.0
164:14:30:05	41	1.0050	-72	40.8320	5.1	85.0	26.3	20.0
164:14:35:05	41	1.0450	-72	40.2740	5.0	83.0	23.8	20.0
164:14:40:05	41	1.0660	-72	39.7120	5.3	85.0	21.6	20.0
164:14:45:05	41	1.1040	-72	39.1340	5.3	89.0	20.0	20.0
164:14:50:05	41	1.1340	-72	38.5470	5.4	86.0	18.8	20.0
164:14:53:05	41	1.1510	-72	38.1900	5.4	86.0	18.1	20.0
164:14:55:05	41	1.0780	-72	38.0960	3.6	261.0	17.8	20.0
164:14:55:35	41	1.0740	-72	38.1370	4.0	252.0	17.8	20.0
164:14:56:35	41	1.0650	-72	38.2240	3.9	263.0	18.1	20.0
164:15:00:05	41	1.0500	-72	38.5080	4.0	264.0	18.6	20.0
164:15:05:05	41	1.0290	-72	38.9410	3.9	269.0	19.4	20.0
164:15:11:39	41	0.9960	-72	39.5190	4.1	263.0	20.8	20.0
164:15:15:05	41	0.9720	-72	39.8210	4.1	264.0	21.8	20.0
164:15:20:00	41	0.9510	-72	40.2480	3.8	271.0	23.5	20.0
164:15:25:00	41	0.9180	-72	40.6740	3.9	266.0	25.5	20.0
164:15:30:05	41	0.8940	-72	41.1040	3.9	254.0	28.2	20.0
164:15:35:05	41	0.8680	-72	41.5220	3.9	270.0	31.1	20.0
164:15:40:05	41	0.8570	-72	41.9430	3.8	263.0	33.4	20.0
164:15:45:05	41	0.8300	-72	42.3590	3.7	268.0	33.9	20.0
164:15:50:05	41	0.8090	-72	42.7730	3.7	263.0	33.5	20.0
164:15:55:05	41	0.7770	-72	43.1880	3.8	272.0	32.4	20.0
164:16:00:05	41	0.7630	-72	43.6070	3.8	257.0	31.5	20.0
164:16:05:05	41	0.7220	-72	44.0350	3.9	268.0	30.5	20.0
164:16:06:29	41	0.7170	-72	44.1580	4.1	255.0	30.4	20.0
164:16:09:29	41	0.6360	-72	44.2260	5.1	83.0	29.8	20.0
164:16:10:05	41	0.6490	-72	44.1600	5.2	72.0	30.0	20.0

164:16:15:00	41	0.6870	-72	43.5980	5.3	87.0	31.3	20.0
164:16:20:00	41	0.7250	-72	43.0360	5.2	82.0	32.9	20.0
164:16:25:00	41	0.7500	-72	42.4570	5.3	79.0	34.1	20.0
164:16:30:05	41	0.7880	-72	41.8790	5.1	91.0	33.8	20.0
164:16:35:05	41	0.8230	-72	41.3030	5.4	88.0	30.0	20.0
164:16:40:05	41	0.8560	-72	40.7090	5.6	84.0	25.5	20.0
164:16:45:05	41	0.8850	-72	40.1210	5.5	82.0	22.5	20.0
164:16:50:05	41	0.9150	-72	39.5270	5.5	87.0	20.2	20.0
164:16:55:05	41	0.9480	-72	38.9200	5.6	88.0	18.5	20.0
164:17:00:05	41	0.9910	-72	38.3150	5.7	86.0	17.3	20.0
164:17:00:55	41	0.9950	-72	38.2140	5.6	89.0	17.1	20.0
164:17:05:05	41	0.9120	-72	38.1150	3.9	268.0	16.8	20.0
164:17:10:05	41	0.8850	-72	38.5370	3.8	260.0	17.6	20.0
164:17:15:05	41	0.8640	-72	38.9600	3.8	258.0	22.9	20.0
164:17:20:00	41	0.8410	-72	39.3720	3.8	263.0	19.6	20.0
164:17:25:00	41	0.8140	-72	39.7980	3.9	264.0	21.1	20.0
164:17:30:05	41	0.7960	-72	40.2310	3.9	269.0	22.9	20.0
164:17:35:05	41	0.7660	-72	40.6570	3.9	261.0	25.3	20.0
164:17:40:05	41	0.7440	-72	41.0850	3.9	265.0	29.1	20.0
164:17:45:05	41	0.7230	-72	41.5090	3.7	273.0	33.6	20.0
164:17:50:05	41	0.6970	-72	41.9280	3.8	263.0	33.5	20.0
164:17:55:05	41	0.6760	-72	42.3560	4.1	266.0	33.3	20.0
164:18:00:05	41	0.6350	-72	42.7750	4.2	274.0	33.7	20.0
164:18:05:05	41	0.6210	-72	43.2240	4.2	274.0	31.8	20.0
164:18:10:05	41	0.6040	-72	43.6700	4.1	254.0	30.1	20.0
164:18:15:09	41	0.5750	-72	44.1310	4.2	274.0	29.0	20.0
164:18:17:55	41	0.4960	-72	44.1060	4.9	81.0	28.7	20.0
164:18:20:00	41	0.5230	-72	43.8840	4.9	77.0	29.3	20.0
164:18:25:00	41	0.5290	-72	43.3550	4.8	87.0	30.8	20.0
164:18:30:05	41	0.5730	-72	42.8200	4.9	86.0	32.3	20.0
164:18:35:05	41	0.5900	-72	42.2610	5.2	81.0	32.4	20.0
164:18:40:05	41	0.6310	-72	41.6970	5.2	87.0	33.3	20.0
164:18:45:05	41	0.6630	-72	41.1410	5.1	91.0	31.6	20.0
164:18:50:05	41	0.6940	-72	40.5820	5.1	80.0	25.1	20.0
164:18:55:05	41	0.7320	-72	40.0220	5.1	80.0	21.6	20.0
164:19:00:05	41	0.7550	-72	39.4650	5.0	84.0	19.4	20.0
164:19:05:05	41	0.7930	-72	38.9080	5.0	86.0	17.7	20.0
164:19:12:10	41	0.8320	-72	38.1180	5.0	87.0	16.2	20.0
164:19:14:45	41	0.7460	-72	38.1350	4.4	262.0	16.3	20.0
164:19:15:05	41	0.7430	-72	38.1680	4.5	265.0	16.3	20.0
164:19:20:00	41	0.7230	-72	38.6360	4.3	264.0	17.0	20.0
164:19:25:00	41	0.6980	-72	39.1120	4.4	269.0	18.1	20.0
164:19:30:05	41	0.6610	-72	39.6050	4.5	264.0	19.9	20.0
164:19:35:05	41	0.6400	-72	40.0930	4.5	262.0	22.1	20.0
164:19:40:05	41	0.6040	-72	40.5800	4.5	257.0	26.2	20.0
164:19:45:05	41	0.5850	-72	41.0530	4.1	256.0	33.1	20.0
164:19:50:05	41	0.5560	-72	41.5180	4.2	256.0	33.1	20.0
164:19:55:05	41	0.5290	-72	41.9980	4.5	264.0	32.1	20.0
164:20:00:05	41	0.5090	-72	42.4870	4.5	264.0	32.5	20.0
164:20:05:05	41	0.4750	-72	42.9730	4.5	271.0	32.5	20.0
164:20:10:05	41	0.4510	-72	43.4640	4.6	268.0	30.4	20.0
164:20:13:59	41	0.4150	-72	43.8410	2.9	264.0	28.9	20.0
164:20:17:59	41	0.4110	-72	44.1130	4.5	270.0	28.0	20.0
164:20:20:00	41	0.3350	-72	44.1660	4.1	85.0	27.9	20.0
164:20:25:00	41	0.3570	-72	43.6760	4.6	90.0	29.6	20.0
164:20:30:05	41	0.3910	-72	43.1720	4.4	80.0	31.6	20.0
164:20:35:05	41	0.4070	-72	42.6840	4.2	79.0	29.5	20.0

164:20:40:05	41	0.4400	-72	42.2100	4.3	75.0	31.8	20.0
164:20:45:05	41	0.4680	-72	41.7380	4.4	84.0	32.1	20.0
164:20:50:05	41	0.4950	-72	41.2610	4.2	86.0	33.4	20.0
164:20:55:05	41	0.5200	-72	40.7850	4.4	84.0	31.7	20
164:20:56:35	41	0.5260	-72	40.6440	4.3	92.0	29.1	20.0
164:21:00:05	41	0.5500	-72	40.3160	4.3	83.0	24.6	20.0
164:21:05:05	41	0.5680	-72	39.8450	4.4	85.0	21.4	20.0
164:21:10:05	41	0.6020	-72	39.3730	4.3	89.0	19.3	20.0
164:21:20:00	41	0.6560	-72	38.4380	4.4	84.0	17.0	20.0
164:21:22:39	41	0.6630	-72	38.1880	4.2	88.0	16.7	20.0
164:21:25:05	41	0.6730	-72	37.9660	4.2	87.0	16.5	20.0
164:21:30:05	41	0.6830	-72	37.8210	0.6	324.0	16.5	20.0

AST 96-1 U/W FROM MATT-A-MINR
ROANOKE POINT SURVEY 0580

165:10:48:57	40	59.8550	-72	32.5960	4.7	339.0	0.0	20.0
165:10:50:01	40	59.9340	-72	32.6320	4.6	343.0	0.0	20.0
165:10:55:01	41	0.2730	-72	32.8210	4.4	350.0	0.0	20.0
165:11:00:01	41	0.5950	-72	32.9700	3.9	340.0	0.0	20.0
165:11:05:01	41	0.8420	-72	33.1650	4.1	296.0	0.0	20.0
165:11:10:01	41	0.8380	-72	33.5350	5.1	324.0	0.0	20.0
165:11:15:01	41	0.9320	-72	34.1580	7.3	260.0	0.0	20.0
165:11:20:01	41	0.6770	-72	35.0990	9.7	264.0	0.0	20.0
165:11:25:01	41	0.6710	-72	36.1800	10.1	270.0	0.0	20.0
165:11:30:01	41	0.6650	-72	37.2800	10.2	269.0	0.0	20.0
165:11:35:01	41	0.6430	-72	37.9060	1.7	260.0	0.0	20.0
165:11:40:01	41	0.5990	-72	38.1750	1.1	253.0	0.0	20.0
165:11:45:01	41	0.6040	-72	38.2750	1.1	264.0	0.0	20.0
165:11:50:01	41	0.6630	-72	38.1680	4.2	101.0	17.2	20.0
165:11:51:47	41	0.5740	-72	38.1970	5.9	258.0	0.0	20.0
165:11:55:01	41	0.5630	-72	38.6240	6.1	265.0	18.0	20.0
165:12:00:01	41	0.5200	-72	39.2770	5.9	265.0	19.7	20.0
165:12:10:05	41	0.4490	-72	40.5800	5.9	262.0	31.0	20.0
165:12:20:00	41	0.3770	-72	41.8370	6.0	262.0	32.0	20.0
165:12:25:00	41	0.3440	-72	42.4810	5.6	265.0	29.9	20.0
165:12:30:05	41	0.3080	-72	43.1210	5.7	270.0	30.0	20.0
165:12:35:05	41	0.2690	-72	43.7460	5.7	262.0	30.1	20.0
165:12:38:05	41	0.2550	-72	44.1140	5.6	249.0	28.7	20.0
165:12:40:05	41	0.1700	-72	44.1190	4.3	66.0	28.2	20.0
165:12:40:15	41	0.1750	-72	44.1030	4.5	69.0	28.3	20.0
165:12:45:05	41	0.1930	-72	43.6430	4.5	95.0	29.7	20.0
165:12:50:05	41	0.2320	-72	43.1740	4.4	82.0	29.4	20.0
165:12:55:00	41	0.2540	-72	42.7100	4.4	86.0	30.3	20.0
165:13:00:05	41	0.2800	-72	42.2230	4.3	84.0	26.7	20.0
165:13:10:05	41	0.3330	-72	41.2020	4.6	92.0	17.9	20.0
165:13:15:05	41	0.3560	-72	40.6980	4.4	85.0	33.1	20.0
165:13:20:00	41	0.3920	-72	40.2080	4.7	83.0	27.0	20.0
165:13:20:39	41	0.3970	-72	40.1410	4.8	88.0	26.1	20.0
165:13:25:00	41	0.4190	-72	39.6530	5.3	88.0	21.9	20.0
165:13:30:05	41	0.4520	-72	39.0730	5.2	83.0	19.7	20.0
165:13:35:05	41	0.4880	-72	38.4950	5.2	89.0	18.5	20.0
165:13:37:55	41	0.5010	-72	38.1630	5.4	88.0	18.0	20.0
165:13:39:49	41	0.4210	-72	38.1550	5.5	266.0	18.1	20.0
165:13:40:05	41	0.4200	-72	38.1870	5.6	265.0	18.1	20.0
165:13:45:05	41	0.3880	-72	38.7900	5.5	260.0	19.3	20.0
165:13:50:05	41	0.3560	-72	39.3920	5.5	268.0	21.2	20.0
165:13:55:05	41	0.3170	-72	39.9890	5.3	265.0	25.3	20.0
165:14:00:05	41	0.2820	-72	40.5870	5.4	267.0	25.7	20.0
165:14:25:00	41	0.1180	-72	43.5820	5.3	265.0	0.0	20.0
165:14:29:19	41	0.0880	-72	44.0820	5.2	265.0	28.0	20.0
165:14:31:19	41	0.0130	-72	44.0950	5.3	95.0	27.4	20.0
165:14:35:05	41	0.0310	-72	43.6530	5.5	86.0	28.9	20.0
165:14:40:05	41	0.0750	-72	43.0500	5.6	86.0	28.5	20.0
165:14:45:05	41	0.1070	-72	42.4380	5.7	88.0	6.2	20.0

165:14:50:05	41	0.1340	-72	41.7960	5.9	88.0	7.3	20.0
165:14:55:05	41	0.1760	-72	41.1590	5.8	88.0	8.0	20.0
165:15:00:05	41	0.2110	-72	40.5270	5.9	88.0	15.6	20.0
165:15:18:49	41	0.3420	-72	38.1520	6.0	78.0	18.3	20.0
165:15:20:50	41	0.2640	-72	38.1080	4.8	265.0	18.6	20.0
165:15:25:00	41	0.2420	-72	38.5520	4.9	270.0	19.7	20.0
165:15:30:05	41	0.2040	-72	39.0900	4.9	266.0	21.4	20.0
165:15:35:05	41	0.1750	-72	39.6360	5.0	263.0	22.6	20.0
165:15:40:05	41	0.1430	-72	40.1860	5.2	267.0	16.0	20.0
165:15:45:05	41	0.1150	-72	40.7420	5.1	271.0	15.0	20.0
165:15:50:05	41	0.0850	-72	41.3040	5.1	265.0	7.2	20.0
165:15:55:05	41	0.0460	-72	41.8590	5.0	265.0	7.8	20.0
165:16:00:05	41	0.0210	-72	42.4100	4.9	266.0	6.3	20.0
165:16:15:45	40	59.9230	-72	44.0830	5.0	272.0	26.6	20.0
165:16:17:59	40	59.8440	-72	44.1170	5.8	83.0	25.9	20.0
165:16:25:00	40	59.8930	-72	43.2140	6.0	87.0	23.5	20.0
165:16:30:05	40	59.9320	-72	42.5240	6.3	88.0	6.5	20.0
165:16:35:05	40	59.9800	-72	41.8400	6.2	83.0	7.7	20.0
165:16:40:05	41	0.0130	-72	41.1560	6.3	89.0	7.1	20.0
165:16:45:05	41	0.0500	-72	40.4830	5.9	84.0	14.8	20.0
165:16:50:05	41	0.0830	-72	39.8300	6.0	87.0	21.7	20.0
165:16:55:05	41	0.1240	-72	39.1790	6.0	88.0	21.0	20.0
165:17:00:05	41	0.1590	-72	38.5110	6.2	83.0	20.9	20.0
165:17:02:55	41	0.1850	-72	38.1240	6.3	83.0	19.0	20.0
165:17:04:49	41	0.1030	-72	38.0810	4.7	266.0	19.9	20.0
165:17:20:00	41	0.0120	-72	39.6310	4.8	262.0	17.5	20.0
165:17:30:05	40	59.9540	-72	40.7230	4.9	267.0	8.4	20.0
165:17:35:05	40	59.9170	-72	41.2470	4.7	262.0	7.7	20.0
165:17:40:05	40	59.8970	-72	41.7660	4.7	265.0	7.3	20.0
165:17:45:05	40	59.8620	-72	42.2900	4.8	266.0	6.9	20.0
165:17:50:05	40	59.8350	-72	42.8070	4.7	266.0	5.7	20.0
165:17:55:05	40	59.8130	-72	43.3410	4.7	264.0	22.5	20.0
165:18:00:05	40	59.7790	-72	43.8660	4.9	262.0	24.0	20.0
165:18:01:49	40	59.7680	-72	44.0500	4.9	267.0	24.1	20.0
165:18:03:39	40	59.6880	-72	44.0190	5.7	90.0	23.0	20.0
165:18:06:21	40	59.7120	-72	43.6940	2.4	96.0	22.2	20.0
165:18:09:09	40	59.7060	-72	43.6380	5.6	96.0	22.0	20.0
165:18:10:05	40	59.7160	-72	43.5190	5.9	83.0	21.6	20.0
165:18:20:00	40	59.7920	-72	42.1800	6.3	81.0	6.7	20.0
165:18:45:05	40	59.9780	-72	38.8100	6.1	83.0	16.6	20.0
165:18:50:05	41	0.0200	-72	38.1560	5.9	84.0	11.7	20.0
165:18:50:25	41	0.0220	-72	38.1110	6.1	84.0	12.0	20.0
165:18:52:29	40	59.9320	-72	38.1200	4.8	268.0	9.8	20.0
165:18:55:05	40	59.9230	-72	38.4070	5.0	266.0	10.1	20.0
165:19:00:05	40	59.8870	-72	38.9520	5.0	266.0	11.8	20.0
165:19:20:00	40	59.7710	-72	41.0580	4.7	264.0	8.2	20.0
165:19:30:05	40	59.7130	-72	42.1100	4.7	267.0	0.0	20.0
165:19:35:05	40	59.6850	-72	42.6430	4.9	265.0	6.2	20.0
165:19:40:05	40	59.6550	-72	43.1920	5.2	268.0	11.9	20.0
165:19:47:45	40	59.6090	-72	44.0460	5.4	262.0	21.7	20.0
165:19:49:45	40	59.5250	-72	44.0150	5.5	81.0	20.5	20.0
165:20:05:05	40	59.6400	-72	42.0880	5.9	91.0	6.3	20.0
165:20:15:05	40	59.7020	-72	40.8260	5.7	90.0	8.5	20.0
165:20:20:00	40	59.7340	-72	40.2120	5.8	86.0	9.3	20.0
165:20:37:15	40	59.8550	-72	38.0860	5.4	88.0	9.1	20.0

Roanoke Point
Long Island Sound

Lines 19-25

AST 96-1
WAVBISK 3
6/14/96

166:11:20:01	41	0.3610	-72	35.9130	10.1	250.0	0.0	20.0
166:11:25:01	41	0.1390	-72	36.7320	6.5	251.0	12.4	20.0
166:11:30:01	40	59.9430	-72	37.4440	8.8	250.0	9.6	20.0
166:11:35:01	40	59.9470	-72	37.6840	4.6	319.0	9.4	20.0
166:11:40:01	40	59.9030	-72	37.8000	0.9	255.0	9.1	20.0
166:11:45:01	40	59.8300	-72	38.0000	3.0	250.0	9.5	20.0
166:11:48:27	40	59.7690	-72	38.1140	4.5	271.0	8.6	20.0
166:11:50:01	40	59.7650	-72	38.3100	6.3	267.0	7.5	20.0
166:11:55:01	40	59.7290	-72	38.9860	6.0	264.0	7.1	20.0
166:12:00:01	40	59.6890	-72	39.6450	5.8	267.0	12.0	20.0
166:12:05:01	40	59.6450	-72	40.3030	6.2	267.0	8.7	20.0
166:12:10:01	40	59.6140	-72	40.9890	6.4	267.0	7.0	20.0
166:12:15:01	40	59.5740	-72	41.6840	6.3	265.0	6.9	20.0
166:12:20:01	40	59.5310	-72	42.3870	6.4	267.0	5.5	20.0
166:12:25:01	40	59.4990	-72	43.0690	5.9	260.0	6.4	20.0
166:12:30:01	40	59.4600	-72	43.7050	5.7	267.0	0.0	20.0
166:12:32:37	40	59.4430	-72	44.0290	5.6	267.0	20.6	20.0
166:12:34:27	40	59.3540	-72	44.0680	4.9	91.0	19.7	20.0
166:12:35:01	40	59.3580	-72	44.0070	4.9	80.0	19.7	20.0
166:12:40:01	40	59.3950	-72	43.4430	5.5	83.0	12.7	20.0
166:12:45:01	40	59.4280	-72	42.8790	5.0	88.0	5.3	20.0
166:12:50:01	40	59.4570	-72	42.3330	4.9	87.0	4.9	20.0
166:12:55:01	40	59.4860	-72	41.7990	5.0	83.0	6.4	20.0
166:13:00:01	40	59.5190	-72	41.2580	5.0	91.0	7.5	20.0
166:13:05:01	40	59.5480	-72	40.7070	5.1	85.0	7.7	20.0
166:13:10:01	40	59.5880	-72	40.1280	5.3	87.0	9.9	20.0
166:13:15:01	40	59.6180	-72	39.5420	5.3	88.0	12.1	20.0
166:13:20:01	40	59.6450	-72	38.9730	5.0	85.0	6.6	20.0
166:13:25:01	40	59.6780	-72	38.4040	5.2	91.0	7.0	20.0
166:13:27:47	40	59.6940	-72	38.0880	5.3	86.0	7.4	20.0
166:13:29:17	40	59.6140	-72	38.0700	5.2	264.0	7.1	20.0
166:13:30:01	40	59.6090	-72	38.1600	5.5	266.0	7.2	20.0
166:13:35:01	40	59.5750	-72	38.7880	5.6	264.0	6.4	20.0
166:13:40:01	40	59.5430	-72	39.4140	5.9	265.0	8.2	20.0

166:13:45:01	40 59.3080	-72 40.0130	5.5	266.0	9.9	20.0
166:13:50:01	40 59.4720	-72 40.6030	5.4	266.0	8.5	20.0
166:13:55:01	40 59.4400	-72 41.2000	5.6	260.0	8.3	20.0
166:14:00:01	40 59.3980	-72 41.8120	5.6	268.0	4.9	20.0
166:14:05:01	40 59.3820	-72 42.3250	5.7	263.0	5.6	20.0
166:14:10:01	40 59.3400	-72 42.9430	5.6	264.0	5.5	20.0
166:14:15:01	40 59.3100	-72 43.5560	5.6	261.0	13.6	20.0
166:14:19:11	40 59.2750	-72 44.0430	5.3	264.0	19.3	20.0
166:14:20:01	40 59.2670	-72 44.1410	5.5	237.0	19.7	20.0
166:14:21:11	40 59.1930	-72 44.1120	5.4	88.0	18.6	20.0
166:14:25:01	40 59.2260	-72 43.6310	5.9	86.0	13.0	20.0
166:14:30:01	40 59.2610	-72 42.9900	5.9	82.0	5.4	20.0
166:14:35:01	40 59.2960	-72 42.3440	5.9	89.0	5.8	20.0
166:14:40:01	40 59.3260	-72 41.7020	5.8	88.0	0.0	20.0
166:14:45:01	40 59.3680	-72 41.0560	6.0	89.0	8.1	20.0
166:14:50:01	40 59.3990	-72 40.3930	6.1	86.0	9.9	20.0
166:14:55:01	40 59.4450	-72 39.7200	6.2	86.0	10.7	20.0
166:15:00:01	40 59.4820	-72 39.0380	6.1	87.0	6.4	20.0
166:15:05:00	40 59.5130	-72 38.3620	6.1	86.0	7.8	20.0
166:15:07:11	40 59.5380	-72 38.0730	6.0	89.0	7.7	20.0
166:15:09:20	40 59.4530	-72 38.0630	4.5	263.0	8.2	20.0
166:15:10:00	40 59.4490	-72 38.1360	5.1	270.0	8.3	20.0
166:15:15:00	40 59.4200	-72 38.6850	5.0	267.0	6.5	20.0
166:15:20:00	40 59.3900	-72 39.2140	4.7	261.0	5.5	20.0
166:15:25:00	40 59.3580	-72 39.7350	4.9	266.0	9.9	20.0
166:15:30:00	40 59.3250	-72 40.2640	4.7	262.0	9.8	20.0
166:15:35:00	40 59.2980	-72 40.8020	4.9	261.0	8.7	20.0
166:15:40:00	40 59.2690	-72 41.3370	4.9	267.0	7.5	20.0
166:15:45:00	40 59.2450	-72 41.8640	4.8	270.0	6.1	20.0
166:15:50:00	40 59.2160	-72 42.3770	4.8	274.0	5.8	20.0
166:15:55:00	40 59.1780	-72 42.8940	4.9	268.0	5.3	20.0
166:16:00:00	40 59.1530	-72 43.4200	5.1	268.0	7.5	20.0
166:16:05:00	40 59.1160	-72 43.9590	4.6	265.0	15.6	20.0
166:16:05:16	40 59.1130	-72 43.9860	4.7	264.0	15.9	20.0
166:16:07:46	40 59.0380	-72 44.0580	6.2	91.0	14.7	20.0
166:16:10:00	40 59.0560	-72 43.7510	6.3	82.0	10.3	20.0
166:16:15:00	40 59.0900	-72 43.0520	6.4	89.0	4.5	20.0
166:16:20:00	40 59.1340	-72 42.3550	6.2	87.0	5.1	20.0
166:16:25:00	40 59.1680	-72 41.6440	6.6	86.0	6.1	20.0
166:16:30:00	40 59.2110	-72 40.9350	6.4	85.0	6.9	20.0
166:16:35:00	40 59.2550	-72 40.2340	6.4	85.0	9.4	20.0
166:16:40:00	40 59.2860	-72 39.5400	6.5	88.0	4.6	20.0
166:16:45:00	40 59.3320	-72 38.8260	6.6	88.0	5.9	20.0
166:16:50:00	40 59.3670	-72 38.1310	6.2	86.0	8.3	20.0
166:16:50:36	40 59.3710	-72 38.0490	6.2	87.0	8.3	20.0
166:16:52:26	40 59.2950	-72 38.0600	4.3	270.0	7.3	20.0
166:16:55:00	40 59.2780	-72 38.3190	4.5	263.0	6.0	20.0
166:17:00:00	40 59.2490	-72 38.8110	4.3	267.0	4.7	20.0
166:17:05:00	40 59.2180	-72 39.2860	4.2	264.0	5.4	20.0
166:17:10:00	40 59.2020	-72 39.7530	4.3	276.0	6.2	20.0

166:17:15:00	40 59.1640	-72 40.2350	4.5	265.0	8.8	20.0
166:17:20:00	40 59.1410	-72 40.7210	4.5	267.0	7.3	20.0
166:17:25:00	40 59.1120	-72 41.2150	4.6	269.0	5.7	20.0
166:17:30:00	40 59.0910	-72 41.7000	4.5	270.0	5.2	20.0
166:17:35:00	40 59.0590	-72 42.1940	4.4	273.0	5.1	20.0
166:17:40:00	40 59.0330	-72 42.6920	4.3	266.0	4.0	20.0
166:17:45:00	40 59.0040	-72 43.1800	4.4	270.0	3.9	20.0
166:17:50:00	40 58.9770	-72 43.6640	4.4	263.0	6.6	20.0
166:17:53:11	40 58.9550	-72 43.9740	4.2	264.0	10.7	20.0
166:17:55:00	40 58.9440	-72 44.1540	4.5	260.0	12.4	20.0
166:18:00:00	40 58.6360	-72 44.1960	2.9	179.0	5.6	20.0

AST 96-1
6/15/96

FALKNER ISLAND
L15

167:11:45:01	41 13.4930	-72 35.1200	10.8	237.0	0.0	20.0
167:11:50:01	41 13.0140	-72 36.1280	10.6	232.0	179.9	20.0
167:11:55:01	41 12.5340	-72 37.1190	10.9	240.0	17.7	20.0
167:12:00:01	41 12.2010	-72 37.8960	2.9	246.0	21.2	20.0
167:12:05:01	41 12.1140	-72 38.1240	2.1	247.0	22.1	20.0
167:12:06:57	41 12.0250	-72 38.1820	3.8	188.0	22.8	20.0
167:12:09:51	41 11.9990	-72 38.5150	6.3	268.0	23.2	20.0
167:12:10:01	41 11.9960	-72 38.5370	6.3	268.0	23.3	20.0
167:12:15:01	41 12.0120	-72 39.2190	6.1	266.0	24.3	20.0
167:12:20:01	41 12.0100	-72 39.8990	6.1	270.0	28.7	20.0
167:12:25:01	41 12.0150	-72 40.5850	6.3	269.0	25.4	20.0
167:12:26:11	41 12.0140	-72 40.7470	6.3	265.0	24.5	20.0
167:12:28:07	41 12.0920	-72 40.7810	4.5	90.0	20.3	20.0
167:12:30:01	41 12.0920	-72 40.5890	4.6	91.0	20.8	20.0
167:12:35:01	41 12.0900	-72 40.0980	4.7	87.0	21.3	20.0
167:12:40:01	41 12.0890	-72 39.6040	4.1	90.0	21.0	20.0
167:12:45:01	41 12.0900	-72 39.1410	4.2	89.0	23.6	20.0
167:12:50:01	41 12.0950	-72 38.6940	4.0	86.0	22.6	20.0
167:12:54:07	41 12.0920	-72 38.3310	4.0	88.0	22.6	20.0
167:12:55:01	41 12.1280	-72 38.2840	5.1	345.0	22.2	20.0
167:12:56:07	41 12.1710	-72 38.3720	6.4	265.0	21.4	20.0
167:13:00:01	41 12.1780	-72 38.9490	6.8	266.0	20.8	20.0
167:13:05:01	41 12.1740	-72 39.6880	6.4	274.0	17.8	20.0
167:13:10:01	41 12.1720	-72 40.4310	6.8	269.0	13.8	20.0
167:13:12:37	41 12.1770	-72 40.7480	5.4	275.0	11.9	20.0
167:13:14:17	41 12.2570	-72 40.7240	5.6	101.0	10.9	20.0
167:13:15:01	41 12.2590	-72 40.6290	6.0	87.0	11.1	20.0
167:13:16:27	41 12.2390	-72 40.4500	6.0	120.0	10.1	20.0
167:13:19:57	41 12.2550	-72 40.1210	4.5	68.0	10.1	20.0
167:13:20:01	41 12.2570	-72 40.1150	4.4	75.0	9.9	20.0
167:13:25:01	41 12.2630	-72 39.6360	4.2	87.0	11.0	20.0
167:13:30:01	41 12.2540	-72 39.1650	3.8	93.0	16.7	20.0
167:13:35:01	41 12.2550	-72 38.7070	4.2	89.0	18.6	20.0
167:13:39:07	41 12.2540	-72 38.3350	4.1	92.0	19.8	20.0
167:13:40:01	41 12.2770	-72 38.2650	4.9	20.0	19.4	20.0
167:13:41:01	41 12.3300	-72 38.3490	6.6	268.0	17.6	20.0
167:13:45:01	41 12.3360	-72 38.9200	6.1	274.0	14.8	20.0
167:13:50:01	41 12.3360	-72 39.6000	6.3	265.0	10.6	20.0
167:13:52:31	41 12.3340	-72 39.9360	5.8	270.0	9.1	20.0
167:13:54:07	41 12.4170	-72 39.9250	4.0	97.0	8.4	20.0

[illegible]	41	12.4190	-72	39.8420	4.2	82.0	9.1	20.0
167:14:00:01	41	12.4170	-72	39.4060	3.9	94.0	14.4	20.0
167:14:05:01	41	12.4190	-72	38.9780	3.9	104.0	12.3	20.0
167:14:10:01	41	12.4130	-72	38.5540	3.8	89.0	14.6	20.0
167:14:12:41	41	12.4220	-72	38.3310	3.7	88.0	15.4	20.0
167:14:14:27	41	12.5020	-72	38.3220	5.3	264.0	13.6	20.0
167:14:15:01	41	12.5000	-72	38.3940	5.8	273.0	13.3	20.0
167:14:20:01	41	12.5020	-72	39.0480	5.8	271.0	13.3	20.0
167:14:23:37	41	12.4860	-72	39.4220	1.9	230.0	13.7	20.0
167:14:25:02	41	12.5080	-72	39.4010	4.8	263.0	13.0	20.0
167:14:28:27	41	12.5060	-72	39.8010	5.4	267.0	8.4	20.0
167:14:30:01	41	12.4930	-72	39.7360	4.4	85.0	10.1	20.0
167:14:33:11	41	12.5750	-72	39.4520	4.7	95.0	5.8	20.0
167:14:35:01	41	12.5680	-72	39.2500	5.0	91.0	7.4	20.0
167:14:40:01	41	12.5690	-72	38.7600	4.3	90.0	10.9	20.0
167:14:44:31	41	12.5720	-72	38.3390	4.3	84.0	12.4	20.0
167:14:45:01	41	12.5720	-72	38.2930	4.2	85.0	12.6	20.0
167:14:46:41	41	12.5690	-72	38.3440	4.4	5.0	12.4	20.0
167:14:50:01	41	12.8360	-72	38.3380	4.8	359.0	8.8	20.0
167:14:55:01	41	13.2560	-72	38.3520	5.1	1.0	10.7	20.0
167:14:57:51	41	13.2180	-72	38.4490	5.0	217.0	9.0	20.0
167:15:00:01	41	13.0480	-72	38.4490	5.1	177.0	8.0	20.0
167:15:05:01	41	12.6390	-72	38.4590	4.8	178.0	10.5	20.0
167:15:05:57	41	12.5620	-72	38.4600	5.0	181.0	11.9	20.0
167:15:08:17	41	12.5640	-72	38.5790	4.6	1.0	11.4	20.0
167:15:10:01	41	12.7040	-72	38.5650	4.9	358.0	9.3	20.0
167:15:15:01	41	13.1220	-72	38.5620	5.1	359.0	7.9	20.0
167:15:16:41	41	13.2640	-72	38.5690	5.1	358.0	10.5	20.0
167:15:18:51	41	13.2720	-72	38.6700	4.4	178.0	10.3	20.0
167:15:20:01	41	13.1800	-72	38.6730	4.9	165.0	7.9	20.0
167:15:25:01	41	12.7700	-72	38.6750	5.0	178.0	8.2	20.0
167:15:27:37	41	12.5570	-72	38.6690	5.0	183.0	11.3	20.0
167:15:29:27	41	12.5460	-72	38.7790	4.8	1.0	11.2	20.0
167:15:30:01	41	12.5940	-72	38.7840	5.1	358.0	10.6	20.0
167:15:35:00	41	13.0140	-72	38.7720	5.5	11.0	7.2	20.0
167:15:38:00	41	13.2690	-72	38.7780	5.2	4.0	9.5	20.0
167:15:40:00	41	13.2850	-72	38.8740	4.9	183.0	9.9	20.0
167:15:45:00	41	12.8830	-72	38.8900	4.9	169.0	6.5	20.0
167:15:49:01	41	12.5590	-72	38.8910	4.7	188.0	11.4	20.0
167:15:50:00	41	12.4950	-72	38.9150	4.3	277.0	11.9	20.0
167:15:51:06	41	12.5370	-72	38.9910	5.1	357.0	12.5	20.0
167:15:55:00	41	12.8820	-72	39.0000	5.5	355.0	6.0	20.0
167:15:59:30	41	13.2700	-72	38.9920	5.0	355.0	8.9	20.0
167:16:00:00	41	13.3120	-72	38.9850	4.9	6.0	14.6	20.0
167:16:02:16	41	13.2760	-72	39.0840	4.0	188.0	9.2	20.0
167:16:05:00	41	13.0580	-72	39.0900	4.7	189.0	6.5	20.0
167:16:10:00	41	12.6800	-72	39.1020	4.4	175.0	7.9	20.0
167:16:11:36	41	12.5600	-72	39.0990	4.5	184.0	16.4	20.0
167:16:15:00	41	12.6850	-72	38.8400	5.6	38.0	8.7	20.0
167:16:20:00	41	13.0320	-72	38.3860	6.4	49.0	8.1	20.0
167:16:23:26	41	13.2510	-72	38.2940	4.1	273.0	10.6	20.0
167:16:25:00	41	13.2530	-72	38.4310	4.0	255.0	10.2	20.0
167:16:30:00	41	13.2600	-72	38.8750	4.4	280.0	8.6	20.0
167:16:35:00	41	13.2560	-72	39.3580	3.9	263.0	9.3	20.0
167:16:40:00	41	13.2550	-72	39.8020	4.3	289.0	17.8	20.0
167:16:45:00	41	13.2430	-72	40.2350	3.9	245.0	0.0	20.0
167:16:50:00	41	13.2590	-72	40.6700	4.1	273.0	12.8	20.0
167:16:50:41	41	13.2540	-72	40.7320	4.2	266.0	12.9	20.0
[illegible]	41	13.3400	-72	40.7870	5.2	94.0	17.5	20.0

167:17:00:00	41	13.3350	-72	39.9580	6.1	84.0	17.5	20.0
167:17:05:00	41	13.3360	-72	39.3080	5.6	86.0	16.7	20.0
167:17:10:00	41	13.3380	-72	38.6420	6.2	93.0	15.3	20.0
167:17:12:20	41	13.3350	-72	38.3240	6.1	89.0	14.3	20.0
167:17:14:30	41	13.4200	-72	38.3140	3.6	284.0	16.7	20.0
167:17:15:00	41	13.4230	-72	38.3540	3.8	281.0	17.0	20.0
167:17:20:00	41	13.4230	-72	38.7490	3.6	277.0	20.5	20.0
167:17:25:00	41	13.4210	-72	39.1410	3.5	279.0	28.9	20.0
167:17:30:00	41	13.4290	-72	39.5120	3.6	277.0	23.0	20.0
167:17:35:00	41	13.4150	-72	39.9070	3.8	281.0	19.7	20.0
167:17:40:00	41	13.4250	-72	40.3230	3.7	277.0	11.1	20.0
167:17:45:00	41	13.4210	-72	40.7270	3.8	275.0	21.0	20.0
167:17:47:36	41	13.5060	-72	40.7310	6.0	91.0	21.2	20.0
167:17:50:00	41	13.4980	-72	40.4130	6.0	98.0	20.9	20.0
167:17:55:00	41	13.4960	-72	39.7650	5.8	81.0	23.7	20.0
167:18:00:00	41	13.5050	-72	39.1040	6.2	88.0	20.3	20.0
167:18:05:00	41	13.5000	-72	38.4050	6.6	84.0	17.3	20.0
167:18:05:30	41	13.5000	-72	38.3340	6.5	89.0	16.9	20.0
167:18:08:46	41	13.5800	-72	38.2410	3.0	272.0	16.4	20.0
167:18:10:00	41	13.5790	-72	38.3320	3.7	271.0	16.6	20.0
167:18:15:00	41	13.5710	-72	38.7680	4.9	262.0	17.1	20.0
167:18:15:40	41	13.5700	-72	38.7920	0.5	327.0	17.1	20.0
167:18:16:36	41	13.5650	-72	38.8210	4.2	263.0	17.0	20.0
167:18:20:00	41	13.5710	-72	39.1270	4.3	267.0	19.4	20.0
167:18:25:00	41	13.5770	-72	39.5920	4.4	270.0	24.4	20.0
167:18:30:00	41	13.5740	-72	40.0560	4.1	270.0	23.1	20.0
167:18:35:00	41	13.5780	-72	40.5160	4.3	268.0	21.3	20.0
167:18:37:20	41	13.5750	-72	40.7410	4.6	275.0	18.9	20.0
167:18:39:16	41	13.6640	-72	40.7490	5.8	94.0	16.9	20.0
167:18:40:00	41	13.6600	-72	40.6510	6.4	103.0	17.8	20.0
167:18:45:00	41	13.6540	-72	39.9670	6.3	88.0	22.1	20.0
167:18:50:00	41	13.6580	-72	39.2720	6.5	88.0	19.2	20.0
167:18:55:00	41	13.6570	-72	38.5760	6.4	89.0	16.1	20.0
167:18:57:06	41	13.6620	-72	38.2810	6.7	93.0	15.4	20.0
167:19:00:00	41	13.7330	-72	38.3430	3.3	277.0	15.2	20.0
167:19:00:06	41	13.7340	-72	38.3500	3.4	272.0	15.2	20.0
167:19:05:00	41	13.7380	-72	38.8010	4.1	263.0	16.5	20.0
167:19:10:00	41	13.7380	-72	39.2670	4.2	267.0	17.2	20.0
167:19:15:00	41	13.7350	-72	39.7330	4.2	268.0	15.5	20.0
167:19:20:00	41	13.7380	-72	40.2070	4.2	291.0	16.7	20.0
167:19:25:00	41	13.7380	-72	40.6730	4.3	270.0	15.1	20.0
167:19:25:40	41	13.7400	-72	40.7360	4.4	274.0	14.9	20.0
167:19:27:31	41	13.8220	-72	40.7530	6.2	93.0	14.8	20.0
167:19:30:00	41	13.8230	-72	40.4060	6.3	90.0	14.7	20.0
167:19:35:00	41	13.8020	-72	39.7140	5.9	94.0	15.4	20.0
167:19:40:00	41	13.8210	-72	39.0270	6.4	88.0	15.6	20.0
167:19:41:16	41	13.8280	-72	38.8700	3.8	85.0	15.3	20.0
167:19:44:36	41	13.8180	-72	38.4190	6.6	89.0	14.9	20.0
167:19:45:00	41	13.8210	-72	38.3630	6.4	84.0	14.8	20.0
167:19:45:20	41	13.8240	-72	38.3150	6.5	85.0	14.7	20.0

AST 96-1 6/16/96 TRANSIT TO
LINE 85A JD 168 NAVDISK 5

FALKNER ISLAND
SURVEY

168:11:25:00	41	14.6310	-72	32.6200	10.5	238.0	0.0	20.0
168:11:30:00	41	14.1980	-72	33.6280	10.4	237.0	0.0	20.0
168:11:35:00	41	13.7250	-72	34.6140	10.5	238.0	0.0	20.0
168:11:40:00	41	13.2310	-72	35.5630	10.3	235.0	0.0	20.0
168:11:45:00	41	12.7560	-72	36.5160	10.4	237.0	0.0	20.0
168:11:50:00	41	12.2970	-72	37.4520	6.0	235.0	20.2	20.0
168:11:55:00	41	12.1600	-72	37.6750	5.6	241.0	21.5	20.0
168:12:00:00	41	11.9320	-72	38.2290	5.7	240.0	23.0	20.0
168:12:01:00	41	11.9260	-72	38.3470	5.5	276.0	23.0	20.0
168:12:05:00	41	11.9280	-72	38.8410	5.7	269.0	23.9	20.0
168:12:10:00	41	11.9300	-72	39.4550	5.6	271.0	25.2	20.0
168:12:15:00	41	11.9260	-72	40.0920	5.8	271.0	27.5	20.0
168:12:20:01	41	11.9230	-72	40.7390	6.1	267.0	27.3	20.0
168:12:23:50	41	12.0170	-72	40.7210	3.8	40.0	23.9	20.0
168:12:25:00	41	12.1040	-72	40.7330	4.6	0.0	18.8	20.0
168:12:27:00	41	12.2570	-72	40.7240	4.7	4.0	10.3	20.0
168:12:30:00	41	12.4920	-72	40.7190	5.0	0.0	8.0	20.0
168:12:35:00	41	12.8740	-72	40.7270	4.4	1.0	10.2	20.0
168:12:37:01	41	13.0230	-72	40.7250	4.5	1.0	9.6	20.0
168:12:39:06	41	13.0560	-72	40.6220	5.2	190.0	9.9	20.0
168:12:40:00	41	12.9740	-72	40.6270	5.5	178.0	10.8	20.0
168:12:45:00	41	12.5240	-72	40.6200	5.1	181.0	7.5	20.0
168:12:48:20	41	12.2400	-72	40.6210	5.2	175.0	11.0	20.0
168:12:50:00	41	12.1410	-72	40.5490	4.6	87.0	17.3	20.0
168:12:51:10	41	12.2180	-72	40.5190	4.6	340.0	10.6	20.0
168:12:55:00	41	12.5340	-72	40.5290	5.3	359.0	7.4	20.0
168:13:00:00	41	12.9430	-72	40.5270	4.4	356.0	11.5	20.0
168:13:01:06	41	13.0240	-72	40.5230	4.4	4.0	11.6	20.0
168:13:05:00	41	13.0540	-72	40.8610	5.1	188.0	9.6	20.0
168:13:06:56	41	13.0120	-72	40.7370	4.2	91.0	9.8	20.0
168:13:10:00	41	13.0140	-72	40.4570	4.1	88.0	12.1	20.0
168:13:15:00	41	13.0090	-72	40.0160	4.7	84.0	9.3	20.0
168:13:19:46	41	13.0240	-72	39.4800	5.0	63.0	6.2	20.0
168:13:20:00	41	13.0380	-72	39.4630	5.1	24.0	6.3	20.0
168:13:21:26	41	13.0900	-72	39.5130	4.7	247.0	6.7	20.0
168:13:25:00	41	13.0890	-72	39.9190	5.4	274.0	9.2	20.0
168:13:30:00	41	13.0920	-72	40.5630	5.9	267.0	10.1	20.0
168:13:31:26	41	13.0920	-72	40.7480	5.8	268.0	9.8	20.0
168:13:33:36	41	13.1690	-72	40.7690	3.9	94.0	10.2	20.0
168:13:35:00	41	13.1720	-72	40.6450	3.9	91.0	10.2	20.0

[illegible]	41	13.1710	-72	40.2160	3.6	68.0	8.8	20.0
168:13:45:00	41	13.1790	-72	39.7660	4.6	87.0	9.7	20.0
168:13:47:40	41	13.1740	-72	39.4870	4.8	89.0	7.4	20.0
168:13:50:00	41	13.3250	-72	39.3850	5.2	306.0	20.1	20.0
168:13:51:56	41	13.2450	-72	39.3590	4.9	210.0	8.3	20.0
168:13:55:00	41	13.0280	-72	39.5150	4.8	210.0	6.5	20.0
168:14:00:00	41	12.6770	-72	39.7640	4.8	207.0	5.7	20.0
168:14:02:50	41	12.4670	-72	39.8930	5.2	208.0	7.7	20.0
168:14:05:00	41	12.4080	-72	39.8270	4.1	31.0	9.1	20.0
168:14:05:30	41	12.4420	-72	39.8070	4.3	35.0	9.1	20.0
168:14:10:00	41	12.7690	-72	39.5790	5.1	28.0	5.9	20.0
168:14:14:46	41	13.1390	-72	39.3250	5.0	22.0	7.0	20.0
168:14:15:00	41	13.1590	-72	39.3250	5.4	351.0	7.2	20.0
168:14:20:00	41	13.3020	-72	39.1540	2.1	90.0	16.7	20.0
168:14:25:00	41	13.3740	-72	38.6180	8.6	75.0	16.7	20.0
168:14:30:00	41	13.4550	-72	37.7220	8.2	81.0	16.7	20.0

LONG SAND SHOAL
6/14/96 AST 96-1

168:14:45:00	41 13.6980	-72 35.0110	8.1	80.0	16.7	20.0
168:14:50:00	41 13.7970	-72 34.1200	8.1	84.0	16.7	20.0
168:14:55:00	41 13.8650	-72 33.2380	7.8	84.0	16.7	20.0
168:15:00:00	41 13.9300	-72 32.3840	8.0	88.0	16.7	20.0
168:15:05:00	41 13.9920	-72 31.5100	8.1	86.0	16.7	20.0
168:15:10:00	41 14.0640	-72 30.6050	8.3	84.0	16.7	20.0
168:15:15:00	41 14.1080	-72 29.6620	8.6	81.0	16.7	20.0
168:15:20:00	41 14.2300	-72 28.7830	4.5	73.0	16.7	20.0
168:15:25:00	41 14.2540	-72 28.6300	0.9	195.0	18.2	20.0
168:15:28:16	41 14.2610	-72 28.5680	4.6	91.0	18.3	20.0
168:15:30:00	41 14.2830	-72 28.3990	4.6	86.0	18.9	20.0
168:15:35:00	41 14.3570	-72 27.8760	4.8	86.0	19.0	20.0
168:15:40:00	41 14.4260	-72 27.3290	5.3	93.0	18.4	20.0
168:15:45:00	41 14.4910	-72 26.7470	5.5	78.0	18.0	20.0
168:15:46:06	41 14.5130	-72 26.6210	5.6	80.0	18.2	20.0
168:15:50:00	41 14.5630	-72 26.1440	5.8	79.0	17.7	20.0
168:15:53:40	41 14.6330	-72 25.7030	4.8	82.0	17.1	20.0
168:15:54:40	41 14.6430	-72 25.5770	6.0	82.0	17.2	20.0
168:15:55:00	41 14.6470	-72 25.5330	5.9	85.0	17.3	20.0
168:16:00:00	41 14.7230	-72 24.9050	5.8	83.0	17.3	20.0
168:16:05:00	41 14.8040	-72 24.2610	5.9	75.0	15.4	20.0
168:16:10:00	41 14.8860	-72 23.6110	5.9	77.0	16.4	20.0
168:16:15:00	41 14.9780	-72 22.9450	6.0	73.0	16.5	20.0
168:16:20:00	41 15.0540	-72 22.2970	6.0	81.0	10.8	20.0
168:16:25:00	41 15.1490	-72 21.6220	6.3	79.0	8.7	20.0
168:16:28:10	41 15.1980	-72 21.1820	6.4	74.0	8.0	20.0
168:16:30:00	41 15.1110	-72 20.9870	6.0	177.0	8.7	20.0
168:16:34:06	41 14.7280	-72 20.9640	5.3	256.0	10.9	20.0
168:16:35:00	41 14.7080	-72 21.0680	5.5	250.0	11.1	20.0
168:16:40:00	41 14.6390	-72 21.6660	5.4	257.0	13.7	20.0
168:16:45:00	41 14.5590	-72 22.2620	5.6	254.0	16.0	20.0
168:16:50:00	41 14.4880	-72 22.8680	5.6	259.0	15.4	20.0
168:16:55:01	41 14.4130	-72 23.4750	5.4	270.0	13.8	20.0

168:17:29:30	41 13.8930	-72 27.5200	5.1	255.0	0.0	20.0
168:17:30:00	41 13.8890	-72 27.5760	5.2	266.0	0.0	20.0
168:17:35:00	41 13.8210	-72 28.1550	5.2	246.0	18.7	20.0
168:17:38:20	41 13.7800	-72 28.5350	5.2	255.0	19.9	20.0
168:17:40:00	41 13.7300	-72 28.6190	1.5	185.0	20.2	20.0
168:17:45:00	41 13.8940	-72 29.0590	8.1	295.0	20.2	20.0