SCANLON CHAPMAN W. FL SHELFEDGE
GRIMES-NOAA CHAP 97005
MARCH 20-31, 1997
NAVIGATION LOG VOL. 2

104977

CHAPMAN 97005

DEAD RECKONING

LOG

LINE 76

JD	LINE	TIME	STATION	LAT	LONG
087	76	2154	149.3	28° 58.2723	85° 26.7764
		2213	161.7	58.5181	25.3982
		2236	137.7	58.7934	23.8993
		2255	115.3	58.9992	22.7388
		2346	95.3	58.5935	19.3639
088	76	0008		28° 59.000	17.4530

LINE 77

088	77	0018	88.8	28° 59.8254	85° 17.6561
088	77	0058	79.7	59.3761	20.1433
088	77	0159	111.4	58.6767	24.1529
088	77	0234	111.5	28 58.2365	85 26.4484

LINE 78

088	78	0251	151.8	28° 58.2395	085° 26.0857
088	78	0330	152.2	58.7125	23.4030
		0356	89.0	59.0427	21.5462
		0427	101.6	59.4238	19.3687
088	78	0448	89.0	6440	17.8593

LINE 79

088	79	0500	83.2	28° 59.6330	085° 17.7979
088	79	0607	76.7	28 59.039	085 22.033
	79	0637	118.2	28 58.5650	85 23.7888
088	80	0713	142.9	28 58.6731	85 22.7414
	80	0744	90.0	28 59.0398	85 20.6342
	80	0801	81.9	28 59.2385	85 19.5206

LINE 81

088	81	0842	77.2	28 59.5459	85 17.9105
	81	0849	98.1	28 59.3611	85 18.2853
	81	0858	74.5	28 59.3093	85 18.7259
	81	0911	75.0	28 59.1588	85 19.4981
	81	0945	72.7	28 58.8118	85 21.5064
	81	1005	108.4	28 58.5842	85 22.7131
	81	1023	110.4	28 58.4113	85 23.6892

JD	LINE	TIME	SLANT RANGE	LAT	LONG
88	82	1049	163.8	28 58.3027	85 23.5093
88	82	1105	157	28 58.5723	85 22.2918
88	82	1121	109.6	28 58.7694	85 21.2255
88	82	1137	101	28 58.9459	85 20.1997
88	82	1153	92.2	28 59.1371	85 19.1838
88	82	1212	90.2	28 59.3469	85° 18.0006
88	83	1231	82.7	28 59.2890	85° 17.8740
88	83	1259	82.3	28 58.9785	85 19.6214
88	83	1319	81.3	28 58.7418	85° 20.8905
88	83	1338	89.3	28 58.5331	85 21.9490
88	83	1351	130	28 58.3944	85 22.7762
88	83	1413	129.1	28 58.2008	85 24.0086
			LINE 84		
88	84	1503	196	28 57.7939	85 25.7697
88	84	1526	172.8	28 58.0682	85 24.2426
88	84	1544	165	28 58.2774	85 22.9960
88	84	1601	131.2	28 58.4859	85 21.9040
88	84	1619	97.6	28 58.7004	85 20.6188
88	84	1636	97.8	28 58.9091	85 19.5465
88	84	1651	92.1	28 59.0891	85 18.4951
			LINE 85		
88	85	1718	91.5	28° 59.1167	85° 17.9200
88	85	1731	91.4	28° 59.9445	85° 18.8070
88	85	1749	95.4	28° 58.7424	85° 20.0000
88	85	1800	95.5	28° 58.6034	85° 20.7873
88	85	1834		58.9111	23.0288
	85	1850	131.4	58.0055	24.002
			LINE 86		
88	86	1903	127.8	28° 57.9034	85° 24.1151
88	86	1959	108.1	58.6022	20.3602
88	86	2038	70.8	28 59.0645	17.2047

LINE 87

DD	LINE	TIME	SLANT RANGE	LAT	LONG
088	87	2049	70.9	28° 59.0070	85 17.5379
088	87	2234	114.0	57.8125	24.2719

LINE 88

088	88	2252	113.9	28° 57.6262	85° 24.7457
		2348	95.7	58.2998	21.1506
088	88	0042	83.5	28° 58.8991	85 17.7002
		0053	78.5		

LINE 89

089	89	0053	78.5	28° 58.8600	85° 17.4557

LINE 90

089	90	0310	112.9	28° 57.3719	85° 25.4221
089	90	0452	106.1	58.5369	18.3092
089	90	0501	82	58.7517	17.6120

LINE 91

089	91	0511	92.7	28° 58.6846	85° 17.6097
089	91	0549	80.8	58.2503	20.0500
089	91	0615	79.7	58.9101	21.8441
089	91	0627	82.1	28° 57.9858	85° 22.[illegible]
089	91	0645	91.5	28° 57.5821	85° 23.[illegible]

JD	LINE	TIME	SLANT RANGE	LAT	LONG
		Line	92		
089	92	0707	141.2	28° 57.5373	85° 23.7028
089	92	0722	142	28° 57.6656	85° 22.7436
089	92	0778	114.1	28° 57 9903	85° 20.9146
089	92	0807	102.0	28° 58.2099	85° 19.6741
089	92	0830	95.2	28° 58.5065	85° 18.0531
		Line	93		
089	93	0852	86.7	28° 57.8891	85° 17.6018
089	93	0912	88.8	28° 56 6364	85° 17.6064
089	93	0929	88.7	28° 55.6800	85° 17.6010
089	93	0945	104.1	28° 54 7558	85° 17.5889
089	93	1000	104.1	28° 53 8848	85° 17.5788
089	93	1015	125.4	28° 52 9548	85° 17.5507
089	93	1034	150.8	28° 51.8467	85° 17.5546
089	93	1100	172	28° 50.3315	85° 17.5602
089	93	1115	197.3	28° 49.4302	85° 17.5310
089	93	1130	196.9	28° 48.5401	85° 17.5192
089	93	1145	197.6	28° 47.5939	85° 17.5107
		Line	94		
089	94	1222	178.2	28 47.0023	85 19.0978
089	94	1240	196.4	28 47.0045	85 20.1334
089	94	1245	196.4	28 47.0034	85 20.4559
		Line 95			
089	95	1315	196.7	28° 47.2296	85° 20.9952
089	95	1330	170.2	28° 48.1129	85° 20.9972
089	95	1347	164.2	28° 49.0654	85° 21.0066
089	95	1404	156.5	28° 49.9360	85° 20.9915
089	95	1420	157.3	28° 50.7900	85° 21.0050
089	95	1430	155.4	28° 51.3388	85° 21.0038
089	95	1445	147.2	28° 52.2492	85° 21.0058
089	95	1500	132.2	28° 53.0219	85° 20.9992
089	95	1515	129.9	28° 53 8255	85° 20 9949
089	95	1532	127.4	28° 54.7814	85° 20 9972
089	95	1545	129.3	28° 55.5042	85° 21 0239
089	95	1600	127.3	28° 56.4122	85° 21.0008

ID	Line	Time	Short Range	Lat	Lon
		Line 95 Cont. From Last Page			
089	95	1616	126	28° 57.3844	85° 20.9990
089	95	1635	98.9	28° 58.5055	85° 20.9885
089	95	1701	43.7	29° 0.1287	85° 20.9904
089	95	1715	43.8	29° 0.9235	85° 21.0035
		~~Line 96~~			
089	96	1742	57.6	29° 1.4944	85° 21.3047
		1828	57.1	29° 1.505	24.2426
		1835	56.6	29° 1.5143	48° 25.0894
		1939	179.0	88° 57.9537	85 25.0000
			Line 98		
			Line 99		
089	99	2120	130.2	28° 58.0607	85° 30.5092
	99	2123	71.9	29 01.0343	8 27.4884
			Line 100		
089	100	2114	92.1	89° 01.1844	85° 27.3927
089	100	2224	93.8	01.0123	31.5855
089	100	2241	93.9	00.9943	32.6000
		2255	136.1	29° 00.9886	85° 33.5052
			Line 101		
089	101	2255	144.2	29° 01.0249	85° 33.5484
		2340	147.2	29° 03.4501	85° 33.4947

LINE 102

JD	Line	Time	Short Range	Lat	Lon
089	102	2342	144.4	29.03 5050	85° 33.4014
090	102	0042	78.7	29° 03.5080	85.39.4827

LINE 103

JD	Line	Time	Short Range	Lat	Lon
~~090~~	~~0152~~				
090	103	0152	127.1	29° 06.8119	85° 30.7991
090	103	0247	130.3	09.8754	31.9836
		0309	124.3	11.0814	32.4595
090	103	0335	98.6	29° 12.4922	85° 33 0110

LINE 104

JD	Line	Time	Short Range	Lat	Lon
090	104	0343	98.1	29°. 12.6204	85° 33.5314
		0437	109	13.3122	36.9140
		0524	85.3	13 9334	39.8893
		0606	85.8	29° 14.4758	85° 42.4212
		0639	83.6	29° 14.9232	85° 44.5812

Line 105

JD	Line	Time	Short Range	Lat	Lon
090	105	0706	83.9	29 14.2776	85° 44.9972
090	105	0719	84.2	29 14 4734	85 45.0131

Line 106

JD	Line	Time	Short Range	Lat	Lon
090	106	0742	86.5	29° 13.5508	85° 43.7869
090	106	0801	133.3	29° 13.6142	85° 42.4821
090	106	0819	114.1	29° 13.6628	85° 41.5067
090	106	0831	92.8	29° 13.7209	85° 40.8289
090	106	0848	87	29° 13.7590	85° 39.7249
090	106	0907	81.4	29° 13.8120	85° 38.6026
090	106	0930	81.7	29° 13.8745	85° 37.0908
090	106	0946	84.7	29° 13.9448	85° 36.0681

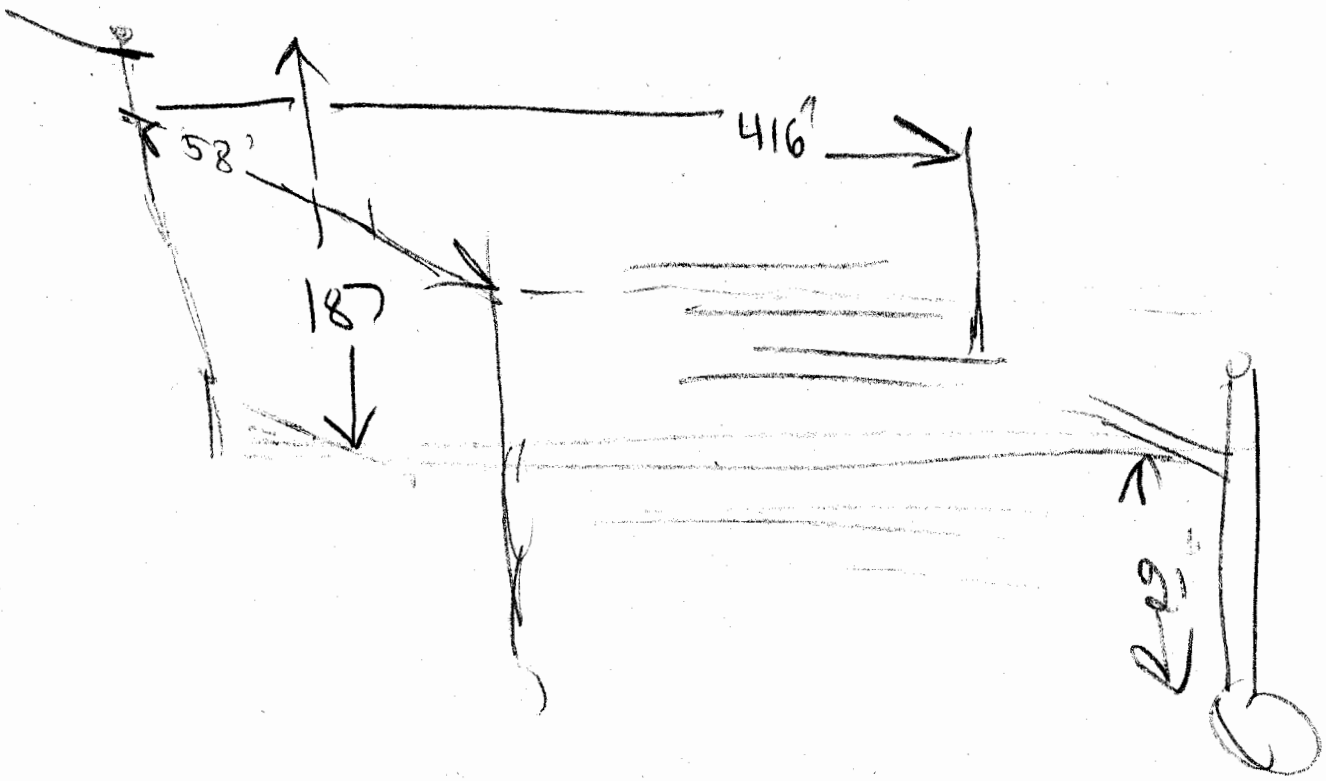
ANTENNA OFFSETS

ANTENNA TO DECK = 187" (15.58')

ANTENNA TO GUNNEL = 58" (4.8')

ANTENNA TO SIDEMOUNT = 416" (34.6')

DECK TO WATER = 21" (1.75')



NO DRAFT ENTERED
INTO BATH DATA