

SECTION I ATTACHMENTS

Airplane Radar Data

7 7 7 7 6 6 6 6 6 6 5 5 5 5 5 5 4 4 4 4 4 4 3 3 3 3 3 3 2 2 2 2 2 2 1 1 1 1 1 1 1 1 0 0 0 0 0 0 9 9 9 9 9 9 8 8 8 8 8 8 7 7 7
 5 3 1 0 8 6 5 3 2 0 8 7 5 3 2 0 8 7 5 3 2 0 8 7 5 3 1 0 8 6 5 3 2 0 8 7 5 3 2 0 8 7 5 3 2 0 8 7 5 3 2 0 8 7 5 3 2 0 8 7 5

PLOT CHARACTER ASSIGNMENTS

RDR	PVD	PVD	PVJ	CHAR	TYPE	SYMBOL	CODE	ALT	TRK#/DBK#	FDB/CDB-AID;	FIELDS B,C,D,E	TIME
1	39	23	0	A	B/L	\	2031	169				41:32
1	39	23	0	A	B/L	\	2031	170				41:42
1	39	23	0	A	B/L	\	2031	171				41:52
1	39	23	0	A	B/L	\	2031	172				42:02
1	39	23	0	A	B/L	\	2031	174				42:12
1	39	23	0	A	B/L	\	2031	175				42:23
1	39	23	0	A	B/L	\	2031	178				42:53
1	39	23	0	A	B/L	\	2031	178				43:03
1	39	23	0	A	B/L	\	2031	179				43:13
1	39	23	0	A	B/L	\	2031	181				43:23
1	39	23	0	A	B/L	\	2031	173				43:33

FIX REFERENCED NUMBER ASSIGNMENTS

F03 CNTR 358.8750 314.5000

**NTAP
DATA**

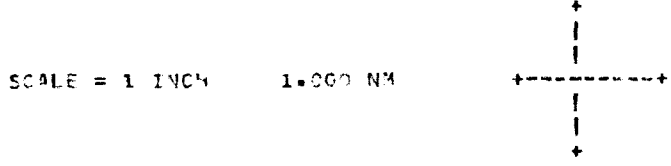
LST3 - LIST OF PLOT SYMBOLS IN TIME SEQUENCE WITH LAT/LONG CONVERSION

PLOT				TIME	X	Y	PLOT				TIME	X	Y				
SYM	CODE	ALT	HMM	SS	COORD.	COORD.	LATITUDE	LONGITUDE	SYM	CODE	ALT	HMM	SS	COORD.	COORD.	LATITUDE	LONGITUDE
A	2031	169	1641	32	358.8750	314.5000	33 30 02N	085 19 39W	A	2031	169	1641	32	361.4375	315.8750	33 31 27N	085 17 01W
A	2031	171	1641	52	360.8750	315.6250	33 31 15N	085 17 36W	A	2031	171	1641	52	360.2500	315.4375	33 30 57N	085 18 21W
A	2031	174	1642	12	359.6875	315.1875	33 30 42N	085 19 06W	A	2031	174	1642	12	359.1250	315.0000	33 30 33N	085 19 41W
A	2031	175	1642	23	358.5525	314.7500	33 30 17N	085 20 27W	A	2031	175	1642	23	357.5000	314.1875	33 29 40N	085 21 37W
A	2031	178	1642	53	356.8750	314.0000	33 29 31N	085 22 22W	A	2031	178	1643	03	356.2500	313.8125	33 29 16N	085 23 07W
A	2031	179	1643	13	355.6375	313.5000	33 29 00N	085 23 59W	A	2031	181	1643	23	355.1250	313.3125	33 28 45N	085 24 27W
A	2031	178	1643	33	354.5000	312.8750	33 28 21N	085 25 02W	A	2031	178	1643	33	354.2500	312.5000	33 27 54N	085 25 29W
A	2031	171	1643	54	353.8750	311.9375	33 27 22N	085 25 35W	A	2031	171	1644	04	353.6250	311.3125	33 26 44N	085 26 13W
A	2031	171	1644	14	353.0000	311.0000	33 26 28N	085 26 20W	A	2031	171	1644	24	353.6250	310.0625	33 25 29N	085 26 11W
A	2031	171	1644	34	353.8750	309.4375	33 24 51N	085 25 53W	A	2031	171	1644	44	354.4375	308.9375	33 24 22N	085 25 17W
A	2031	171	1644	54	355.0625	308.6250	33 24 06N	085 24 32W	A	2031	171	1645	04	355.8125	308.6250	33 24 07N	085 23 39W
A	2031	171	1645	14	356.3125	308.7500	33 24 14N	085 23 03W	A	2031	171	1645	24	356.8750	308.8750	33 24 23N	085 22 17W
A	2031	171	1645	34	357.3750	308.2375	33 24 24N	085 21 41W	A	2031	171	1645	45	357.7500	309.3125	33 24 47N	085 21 15W
A	2031	171	1645	55	358.3125	309.6250	33 25 09N	085 20 40W	A	2031	171	1646	05	358.7500	309.8750	33 25 24N	085 20 04W
A	2031	171	1646	15	359.2500	310.0000	33 25 32N	085 19 28W	A	2031	171	1646	25	359.4375	310.6875	33 26 11N	085 19 20W
A	2031	171	1646	35	359.8250	311.0000	33 26 32N	085 19 02W	A	2031	171	1646	45	359.5625	311.5625	33 27 03N	085 19 12W
A	2031	171	1646	55	359.0625	312.3750	35 27 55N	085 19 42W	A	2031	171	1647	06	358.6375	312.5000	33 28 02N	085 20 16W
A	2031	171	1647	16	359.2500	312.8125	33 28 13N	085 20 40W	A	2031	171	1647	26	357.9375	313.0625	33 28 32N	085 21 10W

NTAP PLOT - PLOT DURATION 241 DATE 08/22/95

TAPE(S) TLF258

X ORIGIN = 352.375 Y ORIGIN = 308.500 START INTERVAL TIME 1647 30 STOP INTERVAL TIME 1651 30



SCALE = 1 INCH 1.000 NM

THE ABOVE DIAGRAM SHOULD MEASURE 1 INCH FROM + TO + IN BOTH THE VERTICAL AND HORIZONTAL DIRECTIONS. IF IT DOES NOT, THE SCALE IS INACCURATE.

- 320.335 .
- 320.171 .
- 320.007 .
- 319.842 .
- 319.678 .
- 319.513 .
- 319.349 .
- 319.185 .
- 319.021 .
- 318.856 .
- 318.692 .
- 318.527 .
- 318.363 .
- 318.198 .
- 318.034 .

A-50:48(030)
 A-50:38 A-50:58(038)
 A-50:24(035)

I-I

AT&T

PLT	SYM	CODE	ALT	HMM	SS	COORD.	LATITUDE	LONGITUDE	SYN	CONV.	PLOT	TIME	X	Y
1	7	23	0	A	R/L	1031	046							
1	ALL					2031	043							
1	7	23	0	A	R/L	2031	044							
1	ALL					2031	044							
1	7	23	0	A	R/L	2031	045							
1	23	0	0	A	R/L	2031	046							
1	23	0	0	A	R/L	2031	046							
1	23	0	0	A	R/L	2031	047							
1	23	0	0	A	R/L	2031	048							
1	23	0	0	A	R/L	2031	048							
1	23	0	0	A	R/L	2031	048							
1	23	0	0	A	R/L	2031	048							

LIST - LIST OF PLOT SYMBOLS IN TIME SEQUENCE WITH LATITUDE LONGITUDE CONVERSION
 PLT SYM CODE ALT HMM SS COORD. LATITUDE LONGITUDE SYN CONV. PLOT TIME X Y
 3 03 358.8750 714.5030 13 30 39 05 17 334 A X 031 1547 36 347.4194 113.5525
 A X 031 1649 45 357.1573 210.1116 33 30 39 05 17 334 A X 031 1567 54 345.4470 114.5500
 A X 031 046 1649 47 358.6280 419.1113 13 30 39 05 17 334 A X 031 1549 33 345.3150 116.1511
 A X 031 047 1650 08 359.4937 410.1910 13 30 39 05 17 334 A X 031 1550 18 343.0050 118.4477
 A X 031 030 1650 28 360.4376 410.6873 33 30 39 05 17 334 A X 031 1570 36 341.9370 112.8120
 A X 031 030 1650 48 361.8750 210.0000 33 30 39 05 17 334 A X 031 1570 54 341.3125 110.1277

INPUT TAPE ID: TLE526A REEL NO: 13 START: 13.0000 STOP: 1708.16

TARGET REPORTS

8/21/95

PAGE 10
SYS

STIME	RANGE	ACF	DEG	QUA	STR	BEACON	ALT		
16:41:14.764 23	41.81	2987	263	7	S	2031-3	166-3	START	RB 0
16:41:19.457 23	42.09	2988	263	7	S	2031-3	166-3		RB 0
16:41:24.101 23	42.39	2988	263	7	S	2031-3	167-3		RB 0
16:41:28.782 23	42.65	2985	262	7	S	2031-3	168-3		RB 0
16:41:33.462 23	42.95	2984	262	7	S	2031-3	168-3		RB 0
16:41:38.092 23	43.20	2984	262	7	S	2031-3	169-3		BT 0
16:41:42.778 23	43.53	2982	262	7	S	2031-3	170-3		RB 0
16:41:47.485 23	43.81	2980	262	7	S	2031-3	170-3		RB 0
16:41:52.093 23	44.09	2979	262	7	S	2031-3	171-3		RB 0
16:41:56.746 23	44.37	2979	262	7	S	2031-3	172-3		RB 0
16:42:01.412 23	44.67	2978	262	7	S	2031-3	172-3		RB 0
16:42:06.083 23	44.93	2976	262	7	S	2031-3	173-3		RB 0
16:42:10.735 23	45.23	2976	262	7	S	2031-3	173-3		RB 0
16:42:15.416 23	45.50	2975	261	7	S	2031-3	174-3		RB 0
16:42:20.123 23	45.78	2974	261	7	S	2031-3	174-3		RB 0
16:42:24.766 23	46.07	2975	261	7	S	2031-3	175-3		RB 0
16:42:29.433 23	46.34	2971	261	7	S	2031-3	175-3	START ↓	RB 0
16:42:34.115 23	46.64	2971	261	7	S	2031-3	176-3		RB 0
16:42:38.725 23	46.89	2972	261	7	S	2031-3	-0		BT 0
16:42:43.393 23	47.21	2970	261	7	S	2031-3	177-3		RB 0
16:42:48.082 23	47.45	2968	261	7	S	2031-3	177-3		BT 0
16:42:52.738 23	47.75	2968	261	7	S	2031-3	177-3		BT 0
16:42:57.395 23	48.06	2967	261	7	S	2031-3	177-3		RB 0
16:43:02.072 23	48.32	2965	261	7	S	2031-3	178-3		RB 0
16:43:06.739 23	48.62	2965	261	7	S	2031-3	178-3		RB 0
16:43:11.354 23	48.92	2965	261	7	S	2031-3	179-3		RB 0

ATLANTA (ATL)
Radar Data

H
W

TARGET REPORTS

PAGE 11

SYS 0

ATL Radar Data

B/21/95

REACON

SYS 0

TIME	RANGE	ACF	DEG	QUA	STR	REACON	-ALT
16:43:16.025	23	2963	260	7	S	2031-3	179-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:20.688	23	2963	260	7	S	2031-3	180-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:25.365	23	2963	260	7	S	2031-3	180-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:30.070	23	2960	260	7	S	2031-3	181-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:34.710	23	2958	260	7	S	2031-3	179-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:39.395	23	2957	260	7	S	2031-3	177-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:44.032	23	2956	260	7	S	2031-3	174-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:48.713	23	2953	260	7	S	2031-3	171-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:53.375	23	2951	259	7	S	2031-3	167-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:43:58.030	23	2946	259	7	S	2031-3	163-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:02.723	23	2942	259	7	S	2031-3	159-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:07.362	23	2938	258	7	S	2031-3	155-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:12.033	23	2936	258	7	S	2031-3	152-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:16.725	23	2932	258	7	S	2031-3	149-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:21.330	23	2928	257	7	S	2031-3	147-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:26.045	23	2924	257	7	S	2031-3	144-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:30.707	23	2919	257	7	S	2031-3	142-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:35.335	23	2915	256	7	S	2031-3	139-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:39.986	23	2913	256	7	S	2031-3	136-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:44.670	23	2908	256	7	S	2031-3	132-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:49.373	23	2908	256	7	S	2031-3	128-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:44:58.670	23	2900	255	7	S	2031-3	122-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:45:03.280	23	2901	255	7	S	2031-3	120-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:45:07.973	23	2899	255	7	S	2031-3	118-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:45:12.651	23	2898	255	7	S	2031-3	117-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:45:17.348	23	2898	255	7	S	2031-3	116-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					
16:45:21.983	23	2898	255	7	S	2031-3	116-3
SENSOR = 0	TOTAL = 1	MODE C TOTAL = 1					

A-4

ARGET REPORTS
STIME

ENSOR = 0	TOTAL =	RANGE	ACF	DEG	QUA	STR	8/21/95 BEACON	ALT	PAGE	12 SYS
16:45:26.454	22	49.10	2899	255	7	S	2031-3	115-3	RB	0
16:45:31.195	22	48.87	2898	255	7	S	2031-3	114-3	RB	0
16:45:36.000	23	48.62	2900	255	7	S	2031-3	113-3	RB	0
16:45:40.462	22	48.35	2899	255	7	S	2031-3	112-3	BT	0
16:45:45.308	23	48.15	2899	255	7	S	2031-3	110-3	RB	0
16:45:49.940	23	47.92	2903	255	7	S	2031-3	108-3	RB	0
16:45:54.639	23	47.64	2903	255	7	S	2031-3	106-3	BT	0
16:45:59.278	23	47.43	2904	255	7	S	2031-3	105-3	RB	0
16:46:03.980	23	47.17	2906	255	7	S	2031-3	104-3	BT	0
16:46:08.646	23	46.98	2906	255	7	S	2031-3	102-3	RB	0
16:46:13.294	23	46.75	2906	255	7	S	2031-3	102-3	RB	0
16:46:17.897	23	46.54	2913	256	7	S	2031-3	101-3	RB	0
16:46:22.541	23	46.32	2910	256	7	S	2031-3	100-3	BT	0
16:46:27.280	23	46.18	2914	256	7	S	2031-3	99-3	RB	0
16:46:31.884	23	46.01	2914	256	7	S	2031-3	97-3	BT	0
16:46:36.590	23	45.87	2920	257	7	S	2031-3	96-3	BT	0
16:46:41.236	23	45.84	2922	257	7	S	2031-3	94-3	RB	0
16:46:45.875	23	45.81	2926	257	7	S	2031-3	92-3	RB	0
16:46:50.570	23	45.82	2929	257	7	S	2031-3	90-3	RB	0
16:46:55.201	23	45.90	2930	258	7	S	2031-3	88-3	RB	0
16:46:59.875	23	46.01	2935	258	7	S	2031-3	87-3	BT	0
16:47:04.544	23	46.18	2941	258	7	S	2031-3	85-3	BT	0
16:47:09.203	23	46.39	2942	259	6	S	2031-3	-0	BT	0
16:47:13.874	23	46.60	2946	259	7	S	2031-3	82-3	RB	0
16:47:18.545	23	46.79	2947	259	7	S	2031-3	81-3	RB	0
16:47:23.170	23	46.96	2949	259	7	S	2031-3	80-3	RB	0
ENSOR = 0	TOTAL =	1	MODE C TOTAL =	1						

**ATL Radar
Data**

H
5

ATL Radar Data

TARGET REPORTS

STIME	RANGE	ACP	DEG	QUA	STR	8/21/95 BEACON	ALT	PAGE	13 SYS
16:47:32.540 23	47.23	2955	260	7	S	2031-3	78-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:47:37.235 23	47.29	2958	260	7	S	2031-3	77-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:47:41.854 23	47.39	2960	260	7	S	2031-3	76-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:47:46.541 23	47.50	2962	260	7	S	2031-3	75-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:47:51.229 23	47.54	2967	261	7	S	2031-3	74-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:47:55.843 23	47.64	2970	261	7	S	2031-3	73-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:49:47.725 23	45.73	3019	265	7	S	2031-3	47-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:49:52.409 23	45.57	3019	265	7	S	2031-3	46-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:49:57.133 23	45.32	3019	265	7	S	2031-3	45-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:01.774 23	45.12	3020	265	7	S	2031-3	44-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:06.373 23	44.92	3021	266	7	S	2031-3	43-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:11.076 23	44.67	3020	265	7	S	2031-3	41-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:15.715 23	44.46	3022	266	7	S	2031-3	40-3	RB	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:20.358 23	44.23	3020	265	7	S	2031-3	38-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							
16:50:25.149 24	44.01	3026	266	6	S	2031-3	37-3	BT	0
SENSOR = 0 TOTAL = 1		MODE C TOTAL = 1							

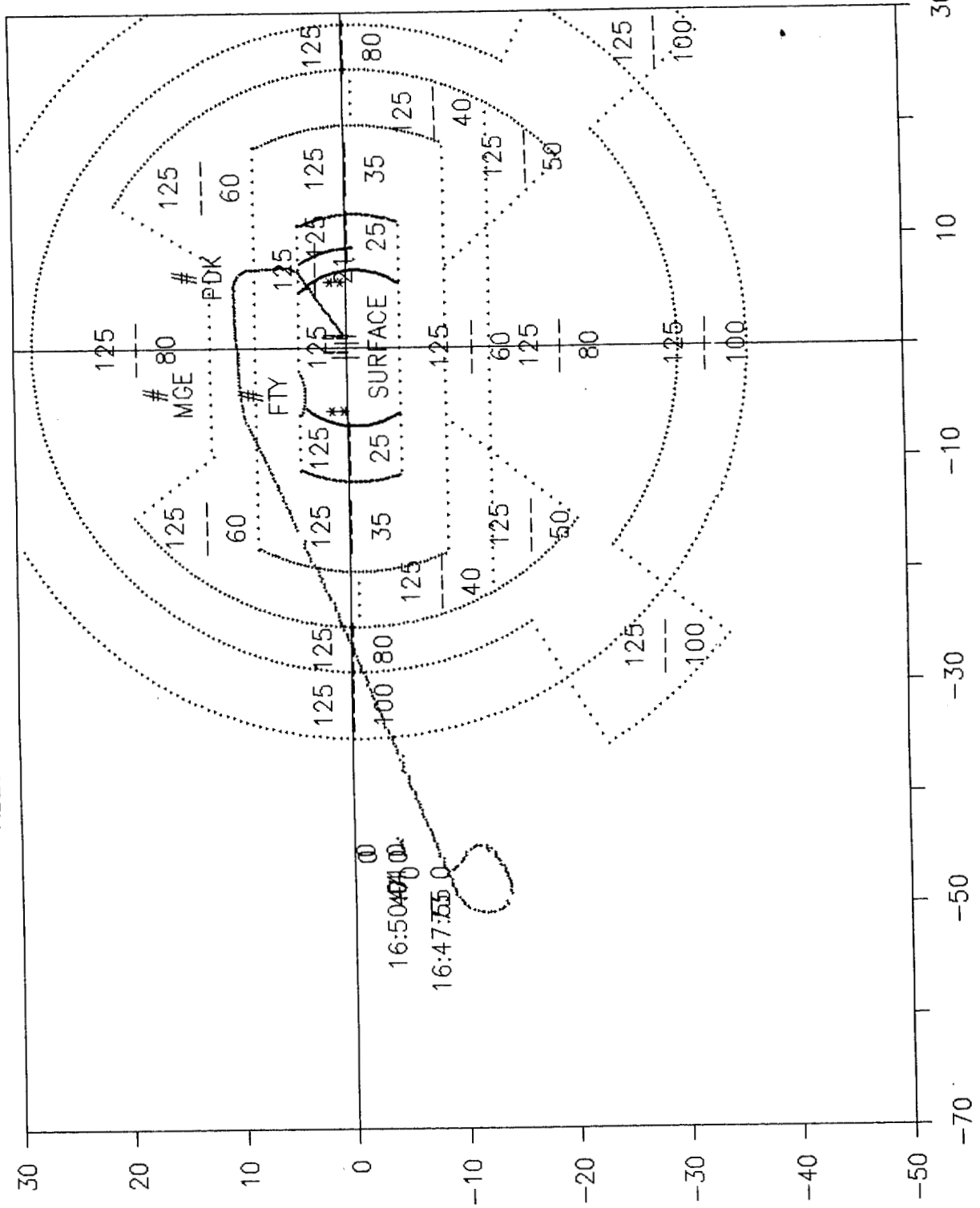
ED END OF DATA
ED

0-1

ATL Radar Data

ATLANTA GROUP I TCA MAP

ASE529 TARGET REPORTS 21AUG95



FIRST PLOTTED TIME IS 16:47:51 HORZ SEP = 0.00 NM VERT SEP = 0 FEET

ATL ASR 7

MAG VAN
LAT/CONS

ATL

Primary
Radar Data

33.3744.2
84.2548.1

Primarys

1-6 NG
13-6 NG

ATLANTA AUTO-PLOTTER ** 16DEC91 ** (ALT M FOR M

DSP#1	ACID	TIME	ATL-X	ATL-Y	ALT	SPD
1	ASE	16:42:01	-47.160	-8.780	5000	0
0		16:42:06	-47.100	-8.840	5000	0
0		16:42:10	-47.150	-8.400	5000	0
0		16:42:15	-44.740	-6.630	17300	0
0		16:42:15	-44.990	-6.740	17400	0
0		16:42:20	-45.260	-8.410	0	0
0		16:42:24	-47.080	-8.020	5000	0
0		16:42:24	-45.560	-6.820	17500	0
0		16:42:29	-47.080	-7.640	4200	0
0		16:42:29	-45.780	-7.150	17500	0
0		16:42:34	-47.060	-7.790	5000	0
0		16:42:34	-46.080	-7.190	17600	0
0		16:42:38	-47.090	-7.860	4900	0
0		16:42:38	-46.330	-7.160	0	0
0		16:42:43	-46.440	-7.390	0	0
0		16:42:43	-46.630	-7.350	17700	0
0		16:42:48	-46.840	-7.530	17700	0
0		16:42:48	-46.970	-7.630	0	0
0		16:42:52	-47.210	-7.370	4900	0
0		16:42:52	-47.140	-7.580	17700	0
0		16:42:57	-47.430	-7.700	17700	0
0		16:42:57	-47.370	-7.020	0	0
0		16:43:02	-47.670	-7.890	17800	0
0		16:43:02	-47.450	-6.740	0	0
0		16:43:06	-47.390	-6.730	4900	0
0		16:43:06	-47.960	-7.940	17800	0
0		16:43:11	-48.260	-7.990	17900	0
0		16:43:11	-47.410	-6.730	4900	0
0		16:43:16	-48.490	-8.180	17900	0
0		16:43:16	-47.460	-6.660	4900	0
0		16:43:20	-48.770	-8.230	18000	0
0		16:43:25	-49.010	-8.270	18000	0
0		16:43:25	-47.580	-6.310	4900	0
0		16:43:25	-49.110	-8.520	0	0
0		16:43:30	-49.290	-8.550	18100	0
0		16:43:30	-47.600	-6.390	4900	0
0		16:43:34	-49.520	-8.740	17900	0
0		16:43:34	-47.660	-6.020	4900	0
0		16:43:39	-49.750	-8.860	17700	0
0		16:43:39	-47.690	-5.950	4900	0
0		16:43:44	-49.940	-8.980	17400	0
0		16:43:44	-47.770	-5.890	0	0
0		16:43:48	-50.070	-9.240	17100	0
0		16:43:48	-47.840	-5.670	0	0

①

②

ATL Primary Radar Data

10	0	16:43:48	-50.190	-9.420	0	0
	0	16:43:53	-50.270	-9.430	16700	0
	0	16:43:58	-50.380	-9.860	16300	0
	0	16:44:02	-50.470	-10.200	15900	0
	0	16:44:07	-50.550	-10.540	15500	0
	0	16:44:12	-50.620	-10.710	15200	0
"	0	16:44:12	-48.070	-5.030	0	0
	0	16:44:16	-50.640	-11.040	14900	0
	0	16:44:16	-48.060	-4.880	4900	0
	0	16:44:21	-50.620	-11.360	14700	0
	0	16:44:21	-48.090	-4.810	4900	0
	0	16:44:26	-50.550	-11.670	14400	0
	0	16:44:26	-48.120	-4.810	6700	0
	0	16:44:30	-50.440	-12.060	14200	0
	0	16:44:35	-50.290	-12.350	13900	0
	0	16:44:35	-48.170	-4.520	5000	0
	0	16:44:39	-50.150	-12.480	13600	0
	0	16:44:44	-49.870	-12.810	13200	0
	0	16:44:44	-48.300	-4.080	5000	0
	0	16:44:49	-49.610	-12.750	12800	0
	0	16:44:49	-48.330	-4.010	5000	0
12	0	16:44:49	-49.690	-13.010	0	0
	0	16:44:54	-48.360	-3.940	5000	0
13	0	16:44:54	-49.430	-13.020	0	0
	0	16:44:58	-48.970	-13.230	12200	0
	0	16:45:03	-48.700	-13.070	12000	0
	0	16:45:07	-48.360	-13.140	11800	0
14	0	16:45:08	-48.480	-13.250	0	0
	0	16:45:12	-48.120	-13.150	11700	0
	0	16:45:17	-47.860	-13.080	11600	0
	0	16:45:21	-47.600	-13.010	11600	0
	0	16:45:26	-47.380	-12.870	11500	0
	0	16:45:31	-47.130	-12.880	11400	0
	0	16:45:36	-46.930	-12.670	11300	0
	0	16:45:40	-46.650	-12.680	11200	0
15	0	16:45:40	-46.760	-12.860	0	0
	0	16:45:45	-46.460	-12.620	11000	0
	0	16:45:49	-46.310	-12.280	10800	0
	0	16:45:54	-46.040	-12.210	10600	0
16	0	16:45:54	-46.190	-12.250	0	0

alt/100	hr	mn	se	lat-deg	min	sec	long-deg	min	sec
0	0	1	0	33	37	44.2	84	25	48.1
0	0	1	0	33	35	0.0	85	12	30.0
0	0	1	0	33	32	30.0	85	17	30.0
0	0	1	0	33	27	30.0	85	25	0.0
0	0	1	0	33	27	30.0	85	22	30.0
169	16	41	32	33	31	27.0	85	17	1.0
170	16	41	42	33	31	12.0	85	17	36.0
171	16	41	52	33	30	57.0	85	18	21.0
172	16	42	2	33	30	42.0	85	19	6.0
174	16	42	12	33	30	33.0	85	19	41.0
175	16	42	23	33	30	17.0	85	20	27.0
0	16	42	43	33	29	40.0	85	21	37.0
178	16	42	53	33	29	31.0	85	22	22.0
178	16	43	3	33	29	16.0	85	23	7.0
179	16	43	13	33	29	0.0	85	23	52.0
181	16	43	23	33	28	45.0	85	24	27.0
178	16	43	33	33	28	21.0	85	25	2.0
0	16	43	43	33	27	58.0	85	25	29.0
0	16	43	54	33	27	22.0	85	25	55.0
0	16	44	4	33	26	44.0	85	26	13.0
0	16	44	14	33	26	28.0	85	26	30.0
0	16	44	24	33	25	29.0	85	26	11.0
0	16	44	34	33	24	51.0	85	25	53.0
0	16	44	44	33	24	22.0	85	25	17.0
0	16	44	54	33	24	6.0	85	24	32.0
0	16	45	4	33	24	7.0	85	23	39.0
0	16	45	14	33	24	14.0	85	23	3.0
0	16	45	24	33	24	23.0	85	22	17.0
0	16	45	34	33	24	24.0	85	21	41.0
0	16	45	45	33	24	47.0	85	21	15.0
0	16	45	55	33	25	9.0	85	20	40.0
0	16	46	5	33	25	24.0	85	20	4.0
0	16	46	15	33	25	32.0	85	19	28.0
0	16	46	25	33	26	11.0	85	19	20.0
0	16	46	35	33	26	32.0	85	19	2.0
0	16	46	45	33	27	3.0	85	19	12.0
0	16	46	55	33	27	55.0	85	19	49.0
0	16	47	6	33	28	2.0	85	20	16.0
0	16	47	16	33	28	18.0	85	20	42.0
0	16	47	26	33	28	32.0	85	21	10.0
0	16	47	36	33	29	1.0	85	21	38.0
0	16	47	46	33	29	39.0	85	22	5.0
0	16	47	56	33	30	2.0	85	22	23.0
46	16	49	47	33	33	40.0	85	20	20.0
44	16	49	58	33	33	42.0	85	19	53.0
42	16	50	8	33	33	56.0	85	19	27.0
38	16	50	18	33	33	57.0	85	18	41.0
35	16	50	28	33	34	13.0	85	18	16.0
33	16	50	38	33	34	21.0	85	17	40.0
30	16	50	48	33	34	35.0	85	17	3.0
28	16	50	58	33	34	29.0	85	16	37.0

→ Atlanta Radar Site
 } Lat/Long gridpoints

NTAP data points

NTAPOUT.XLS

hr	mn	se	x-nm	y-nm	alt/100 ft	total secs	alt/1000 ft
16	41	32	-42.69396	-6.11053	169	45692	16.9
16	41	42	-43.18228	-6.35649	170	45702	17
16	41	52	-43.80959	-6.60123	171	45712	17.1
16	42	2	-44.43695	-6.84589	172	45722	17.2
16	42	12	-44.92456	-6.99168	174	45732	17.4
16	42	23	-45.56607	-7.25275	175	45743	17.5
16	42	43	-46.54428	-7.86073	0	45763	0
16	42	53	-47.17101	-8.00506	178	45773	17.8
16	43	3	-47.7987	-8.24932	178	45783	17.8
16	43	13	-48.4266	-8.51016	179	45793	17.9
16	43	23	-48.91541	-8.75557	181	45803	18.1
16	43	33	-49.40569	-9.15093	178	45813	17.8
16	43	43	-49.78467	-9.53065	0	45823	0
16	43	54	-50.15189	-10.12713	0	45834	0
16	44	4	-50.40828	-10.758	0	45844	0
16	44	14	-50.64725	-11.02235	0	45854	0
16	44	24	-50.39257	-12.00821	0	45864	0
16	44	34	-50.14832	-12.64394	0	45874	0
16	44	44	-49.65217	-13.13207	0	45884	0
16	44	54	-49.02868	-13.40468	0	45894	0
16	45	4	-48.2912	-13.39494	0	45904	0
16	45	14	-47.7893	-13.28292	0	45914	0
16	45	24	-47.14801	-13.13879	0	45924	0
16	45	34	-46.64706	-13.12666	0	45934	0
16	45	45	-46.28196	-12.74659	0	45945	0
16	45	55	-45.79188	-12.38427	0	45955	0
16	46	5	-45.28897	-12.13868	0	45965	0
16	46	15	-44.78711	-12.0097	0	45975	0
16	46	25	-44.67027	-11.36069	0	45985	0
16	46	35	-44.41696	-11.01286	0	45995	0
16	46	45	-44.5516	-10.49502	0	46005	0
16	46	55	-45.05855	-9.62394	0	46015	0
16	47	6	-45.43288	-9.504	0	46026	0
16	47	16	-45.79197	-9.23416	0	46036	0
16	47	26	-46.17913	-8.99738	0	46046	0
16	47	36	-46.564	-8.51058	0	46056	0
16	47	46	-46.93355	-7.87389	0	46066	0
16	47	56	-47.18022	-7.48829	0	46076	0
16	49	47	-45.43915	-3.87041	46	46187	4.6
16	49	58	-45.00891	2.47607	44	46198	4.4
16	50	8	-44.70086	-3.61016	42	46208	4.2
16	50	18	-44.06197	-3.59898	38	46218	3.8
16	50	28	-43.71257	-3.33527	35	46228	3.5
16	50	38	-43.21159	-3.20614	33	46238	3.3
16	50	48	-42.69593	-2.97708	30	46248	3
16	50	58	-42.33575	-3.08005	28	46258	2.8

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BEACDTA.XLS

ASE 529 EMB-120 Aug 21 1995					
Beacon Data					
ATC Min	ATC Secs	Elapsed T	Range NM	ACP	Beacon ALT
41	14.8		41.81	2987	16600
41	19.5		42.09	2988	16600
41	24.1		42.39	2988	16700
41	28.8		42.65	2985	16800
41	33.5		42.95	2984	16800
41	38.1		43.20	2984	16900
41	42.8		43.53	2982	17000
41	47.5		43.81	2980	17000
41	52.1		44.09	2979	17100
41	56.7		44.37	2979	17200
42	1.4		44.67	2978	17200
42	6.1		44.93	2976	17300
42	10.7		45.23	2976	17300
42	15.4		45.50	2975	17400
42	20.1		45.78	2974	17400
42	24.8		46.07	2975	17500
42	29.4		46.34	2971	17500
42	34.1		46.64	2971	17600
42	38.7		46.89	2972	
42	43.4		47.21	2970	17700
42	48.1		47.45	2968	17700
42	52.7		47.75	2968	17700
42	57.4		48.06	2967	17700
43	2.1		48.32	2965	17800
43	6.7		48.62	2965	17800
43	11.4		48.92	2965	17900
43	16.0		49.18	2963	17900
43	20.7		49.46	2963	18000
43	25.4		49.71	2963	18000
43	30.1		50.03	2960	18100
43	34.7		50.29	2958	17900
43	39.4		50.54	2957	17700
43	44.0		50.75	2956	17400
43	48.7		50.92	2953	17100
43	53.4		51.15	2951	16700
43	58.0		51.34	2946	16300
44	2.7		51.50	2942	15900
44	7.4		51.64	2938	15500
44	12.0		51.75	2936	15200
44	16.7		51.84	2932	14900
44	21.3		51.89	2928	14700
44	26.0		51.89	2924	14400
44	30.7		51.87	2919	14200
44	35.3		51.79	2915	13900
44	40.0		51.68	2913	13600
44	44.7		51.50	2908	13200
44	49.4		51.23	2908	12800

BEACDTA.XLS

ATC Min	ATC Secs	Elapsed T	Range NM	ACP	Beacon ALT
44	58.7		50.73	2900	12200
45	3.3		50.43	2901	12000
45	8.0		50.12	2899	11800
45	12.7		49.89	2898	11700
45	17.3		49.62	2898	11600
45	22.0		49.35	2898	11600
45	26.5		49.10	2899	11500
45	31.2		48.87	2898	11400
45	36.0		48.62	2900	11300
45	40.5		48.35	2899	11200
45	45.3		48.15	2899	11000
45	49.9		47.92	2903	10800
45	54.6		47.64	2903	10600
45	59.3		47.43	2904	10500
46	4.0		47.17	2906	10400
46	8.6		46.98	2906	10200
46	13.3		46.75	2906	10200
46	17.9		46.54	2913	10100
46	22.5		46.32	2910	10000
46	27.3		46.18	2914	9900
46	31.9		46.01	2914	9700
46	36.6		45.87	2920	9600
46	41.2		45.84	2922	9400
46	45.9		45.81	2926	9200
46	50.6		45.82	2929	9000
46	55.2		45.90	2930	8800
46	59.9		46.01	2935	8700
47	4.5		46.18	2941	8500
47	9.2		46.39	2942	
47	13.9		46.60	2946	8200
47	18.5		46.79	2947	8100
47	23.2		46.96	2949	8000
47	32.5		47.23	2955	7800
47	37.2		47.29	2958	7700
47	41.9		47.39	2960	7600
47	46.5		47.50	2962	7500
47	51.2		47.54	2967	7400
47	55.8		47.64	2970	7300
49	47.7		45.73	3019	4700
49	52.4		45.57	3019	4600
49	57.1		45.32	3019	4500
50	1.8		45.12	3020	4400
50	6.4		44.92	3021	4300
50	11.1		44.67	3020	4100
50	15.7		44.46	3022	4000
50	20.4		44.23	3020	3800
50	25.1		44.10	3026	3700

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BEACFIN.XLS

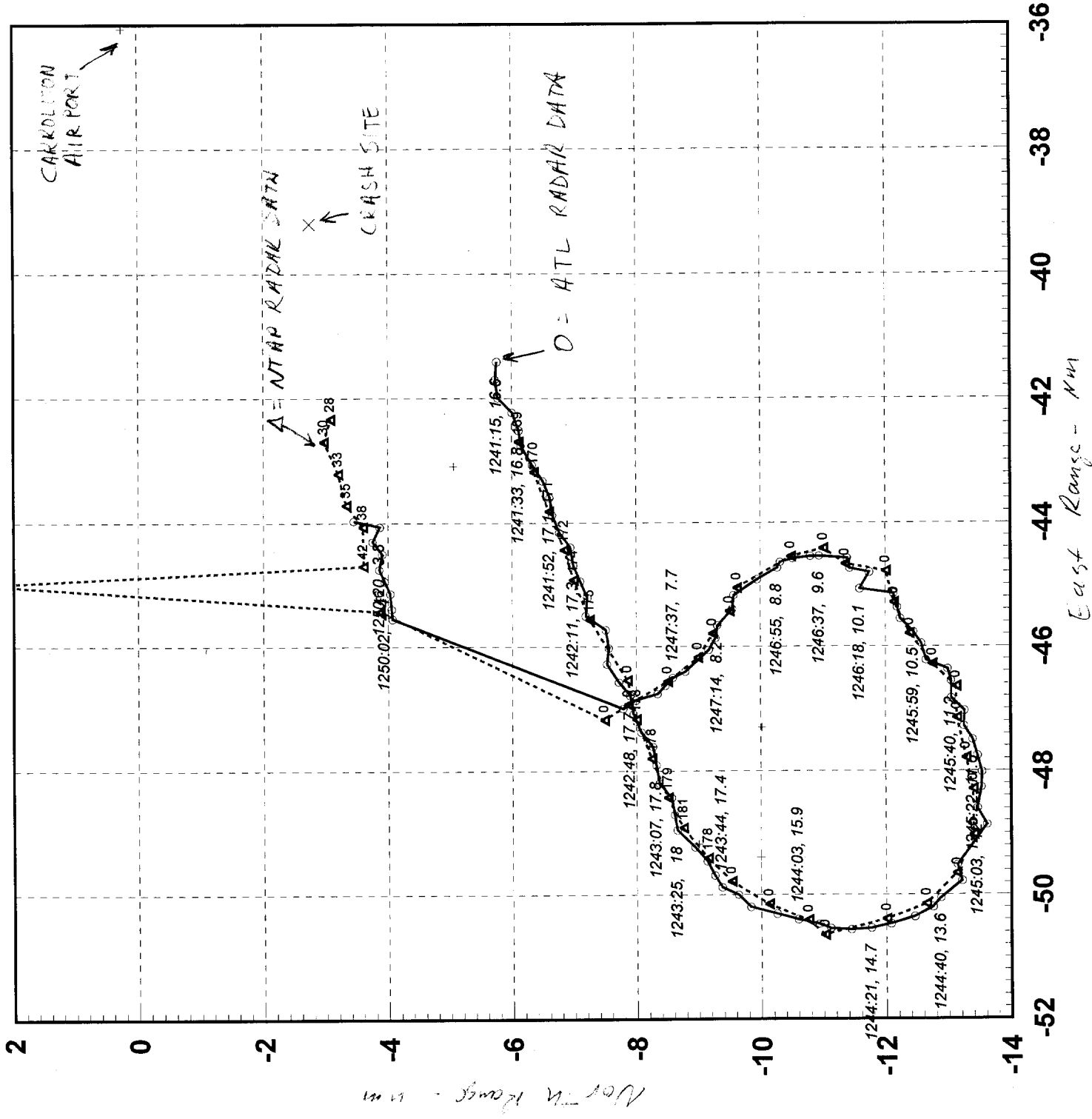
045 = east

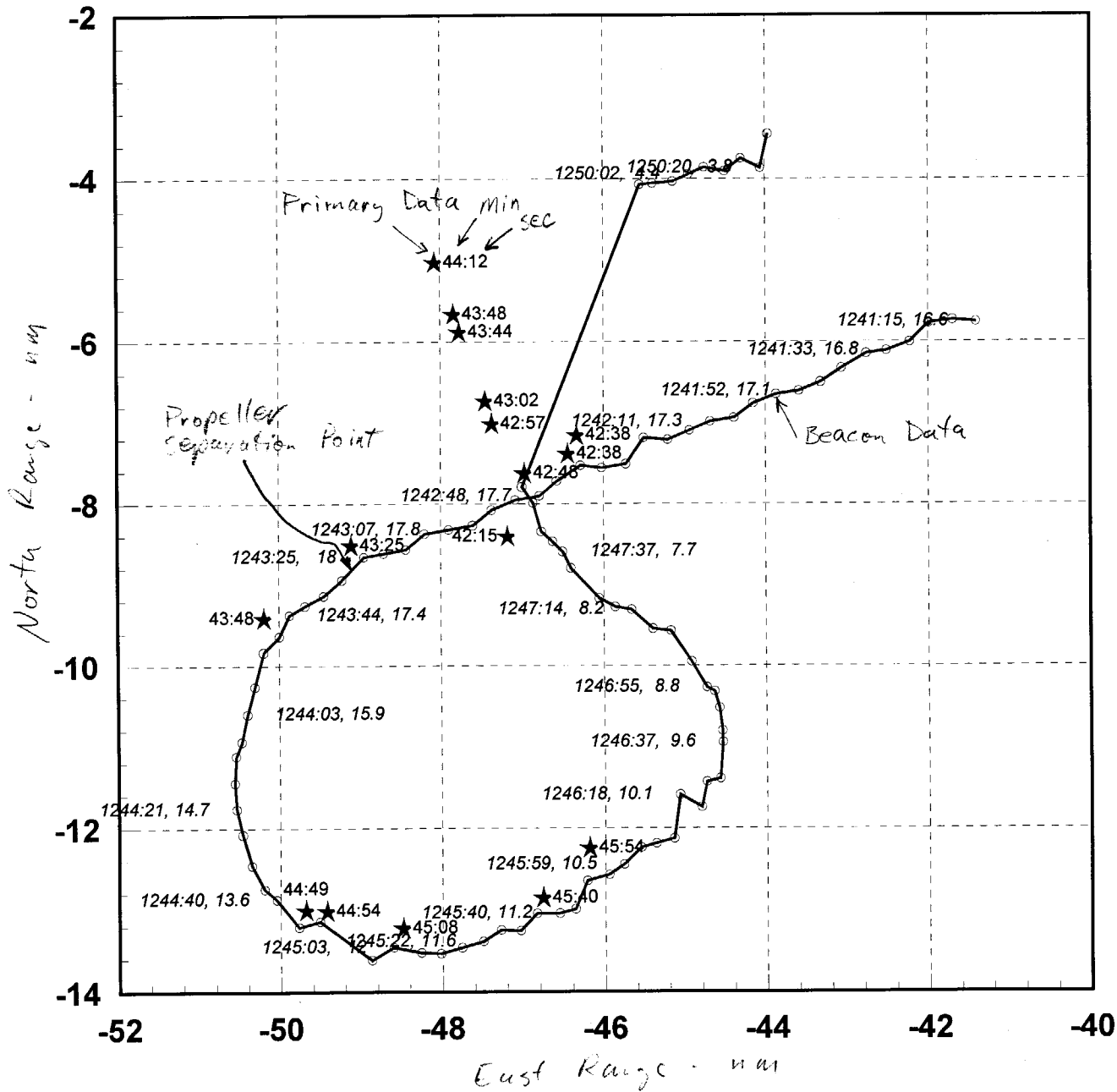
hr	mn	sec	x-nm	y-nm	alt	time-sec	hr:mn:sec	alt/100	time,alt/100
12	41	14.8	-41.4111	-5.7617	16600	45674.8	12:41:15	16.6	1241:15, 16.6
12	41	19.5	-41.6973	-5.7363	16600	45679.5	12:41:19	16.6	1241:19, 16.6
12	41	24.1	-41.9945	-5.7772	16700	45684.1	12:41:24	16.7	1241:24, 16.7
12	41	28.8	-42.2249	-6.0070	16800	45688.8	12:41:29	16.8	1241:29, 16.8
12	41	33.5	-42.5125	-6.1145	16800	45693.5	12:41:33	16.8	1241:33, 16.8
12	41	38.1	-42.7600	-6.1501	16900	45698.1	12:41:38	16.9	1241:38, 16.9
12	41	42.8	-43.0674	-6.3292	17000	45702.8	12:41:43	17.0	1241:43, 17
12	41	47.5	-43.3247	-6.5029	17000	45707.5	12:41:47	17.0	1241:47, 17
12	41	52.1	-43.5915	-6.6113	17100	45712.1	12:41:52	17.1	1241:52, 17.1
12	41	56.7	-43.8683	-6.6533	17200	45716.7	12:41:57	17.2	1241:57, 17.2
12	42	1.4	-44.1546	-6.7660	17200	45721.4	12:42:01	17.2	1242:01, 17.2
12	42	6.1	-44.3905	-6.9416	17300	45726.1	12:42:06	17.3	1242:06, 17.3
12	42	10.7	-44.6869	-6.9880	17300	45730.7	12:42:11	17.3	1242:11, 17.3
12	42	15.4	-44.9428	-7.0986	17400	45735.4	12:42:15	17.4	1242:15, 17.4
12	42	20.1	-45.2084	-7.2117	17400	45740.1	12:42:20	17.4	1242:20, 17.4
12	42	24.8	-45.5059	-7.1876	17500	45744.8	12:42:25	17.5	1242:25, 17.5
12	42	29.4	-45.7273	-7.5104	17500	45749.4	12:42:29	17.5	1242:29, 17.5
12	42	34.1	-46.0234	-7.5590	17600	45754.1	12:42:34	17.6	1242:34, 17.6
12	42	38.7	-46.2817	-7.5286	0	45758.7	12:42:39	0.0	1242:39, 0
12	42	43.4	-46.5740	-7.7229	17700	45763.4	12:42:43	17.7	1242:43, 17.7
12	42	48.1	-46.7868	-7.9057	17700	45768.1	12:42:48	17.7	1242:48, 17.7
12	42	52.7	-47.0826	-7.9557	17700	45772.7	12:42:53	17.7	1242:53, 17.7
12	42	57.4	-47.3759	-8.0800	17700	45777.4	12:42:57	17.7	1242:57, 17.7
12	43	2.1	-47.6071	-8.2698	17800	45782.1	12:43:02	17.8	1243:02, 17.8
12	43	6.7	-47.9026	-8.3212	17800	45786.7	12:43:07	17.8	1243:07, 17.8
12	43	11.4	-48.1982	-8.3725	17900	45791.4	12:43:11	17.9	1243:11, 17.9
12	43	16.0	-48.4283	-8.5656	17900	45796.0	12:43:16	17.9	1243:16, 17.9
12	43	20.7	-48.7040	-8.6144	18000	45800.7	12:43:21	18.0	1243:21, 18
12	43	25.4	-48.9502	-8.6579	18000	45805.4	12:43:25	18.0	1243:25, 18
12	43	30.1	-49.2247	-8.9403	18100	45810.1	12:43:30	18.1	1243:30, 18.1
12	43	34.7	-49.4527	-9.1385	17900	45814.7	12:43:35	17.9	1243:35, 17.9
12	43	39.4	-49.6844	-9.2602	17700	45819.4	12:43:39	17.7	1243:39, 17.7
12	43	44.0	-49.8765	-9.3752	17400	45824.0	12:43:44	17.4	1243:44, 17.4
12	43	48.7	-49.9998	-9.6368	17100	45828.7	12:43:49	17.1	1243:49, 17.1
12	43	53.4	-50.1957	-9.8343	16700	45833.4	12:43:53	16.7	1243:53, 16.7
12	43	58.0	-50.3050	-10.2570	16300	45838.0	12:43:58	16.3	1243:58, 16.3
12	44	2.7	-50.3977	-10.5984	15900	45842.7	12:44:03	15.9	1244:03, 15.9
12	44	7.4	-50.4685	-10.9371	15500	45847.4	12:44:07	15.5	1244:07, 15.5
12	44	12.0	-50.5421	-11.1155	15200	45852.0	12:44:12	15.2	1244:12, 15.2
12	44	16.7	-50.5608	-11.4453	14900	45856.7	12:44:17	14.9	1244:17, 14.9
12	44	21.3	-50.5383	-11.7666	14700	45861.3	12:44:21	14.7	1244:21, 14.7
12	44	26.0	-50.4651	-12.0765	14400	45866.0	12:44:26	14.4	1244:26, 14.4
12	44	30.7	-50.3516	-12.4584	14200	45870.7	12:44:31	14.2	1244:31, 14.2
12	44	35.3	-50.1967	-12.7474	13900	45875.3	12:44:35	13.9	1244:35, 13.9
12	44	40.0	-50.0508	-12.8740	13600	45880.0	12:44:40	13.6	1244:40, 13.6
12	44	44.7	-49.7766	-13.2113	13200	45884.7	12:44:45	13.2	1244:45, 13.2
12	44	49.4	-49.5157	-13.1420	12800	45889.4	12:44:49	12.8	1244:49, 12.8
12	44	58.7	-48.8690	-13.6145	12200	45898.7	12:44:59	12.2	1244:59, 12.2

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BEACFIN.XLS

hr	mn	sec	x-nm	y-nm	alt	time-sec	hr:mn:sec	alt/100	time,alt/100
12	45	3.3	-48.6007	-13.4594	12000	45903.3	12:45:03	12.0	1245:03, 12
12	45	8.0	-48.2607	-13.5248	11800	45908.0	12:45:08	11.8	1245:08, 11.8
12	45	12.7	-48.0185	-13.5364	11700	45912.7	12:45:13	11.7	1245:13, 11.7
12	45	17.3	-47.7586	-13.4632	11600	45917.3	12:45:17	11.6	1245:17, 11.6
12	45	22.0	-47.4988	-13.3899	11600	45922.0	12:45:22	11.6	1245:22, 11.6
12	45	26.5	-47.2785	-13.2496	11500	45926.5	12:45:26	11.5	1245:26, 11.5
12	45	31.2	-47.0368	-13.2597	11400	45931.2	12:45:31	11.4	1245:31, 11.4
12	45	36.0	-46.8364	-13.0482	11300	45936.0	12:45:36	11.3	1245:36, 11.3
12	45	40.5	-46.5563	-13.0472	11200	45940.5	12:45:40	11.2	1245:40, 11.2
12	45	45.3	-46.3638	-12.9932	11000	45945.3	12:45:45	11.0	1245:45, 11
12	45	49.9	-46.2208	-12.6478	10800	45949.9	12:45:50	10.8	1245:50, 10.8
12	45	54.6	-45.9507	-12.5739	10600	45954.6	12:45:55	10.6	1245:55, 10.6
12	45	59.3	-45.7673	-12.4483	10500	45959.3	12:45:59	10.5	1245:59, 10.5
12	46	4.0	-45.5542	-12.2403	10400	45964.0	12:46:04	10.4	1246:04, 10.4
12	46	8.6	-45.3707	-12.1910	10200	45968.6	12:46:09	10.2	1246:09, 10.2
12	46	13.3	-45.1486	-12.1313	10200	45973.3	12:46:13	10.2	1246:13, 10.2
12	46	17.9	-45.0728	-11.5935	10100	45977.9	12:46:18	10.1	1246:18, 10.1
12	46	22.5	-44.8062	-11.7451	10000	45982.5	12:46:22	10.0	1246:22, 10
12	46	27.3	-44.7418	-11.4352	9900	45987.3	12:46:27	9.9	1246:27, 9.9
12	46	31.9	-44.5771	-11.3931	9700	45991.9	12:46:32	9.7	1246:32, 9.7
12	46	36.6	-44.5441	-10.9490	9600	45996.6	12:46:37	9.6	1246:37, 9.6
12	46	41.2	-44.5483	-10.8052	9400	46001.2	12:46:41	9.4	1246:41, 9.4
12	46	45.9	-44.5846	-10.5248	9200	46005.9	12:46:46	9.2	1246:46, 9.2
12	46	50.6	-44.6423	-10.3217	9000	46010.6	12:46:51	9.0	1246:51, 9
12	46	55.2	-44.7360	-10.2711	8800	46015.2	12:46:55	8.8	1246:55, 8.8
12	46	59.9	-44.9209	-9.9515	8700	46019.9	12:47:00	8.7	1247:00, 8.7
12	47	4.5	-45.1769	-9.5729	8500	46024.5	12:47:04	8.5	1247:04, 8.5
12	47	9.2	-45.3970	-9.5468	0	46029.2	12:47:09	0.0	1247:09, 0
12	47	13.9	-45.6605	-9.3100	8200	46033.9	12:47:14	8.2	1247:14, 8.2
12	47	18.5	-45.8610	-9.2776	8100	46038.5	12:47:18	8.1	1247:18, 8.1
12	47	23.2	-46.0560	-9.1701	8000	46043.2	12:47:23	8.0	1247:23, 8
12	47	32.5	-46.4037	-8.7961	7800	46052.5	12:47:32	7.8	1247:32, 7.8
12	47	37.2	-46.5027	-8.5934	7700	46057.2	12:47:37	7.7	1247:37, 7.7
12	47	41.9	-46.6272	-8.4685	7600	46061.9	12:47:42	7.6	1247:42, 7.6
12	47	46.5	-46.7613	-8.3448	7500	46066.5	12:47:46	7.5	1247:46, 7.5
12	47	51.2	-46.8633	-7.9926	7400	46071.2	12:47:51	7.4	1247:51, 7.4
12	47	55.8	-46.9983	-7.7932	7300	46075.8	12:47:56	7.3	1247:56, 7.3
12	49	47.7	-45.5484	-4.0718	4700	46187.7	12:49:48	4.7	1249:48, 4.7
12	49	52.4	-45.3890	-4.0576	4600	46192.4	12:49:52	4.6	1249:52, 4.6
12	49	57.1	-45.1400	-4.0353	4500	46197.1	12:49:57	4.5	1249:57, 4.5
12	50	1.8	-44.9469	-3.9486	4400	46201.8	12:50:02	4.4	1250:02, 4.4
12	50	6.4	-44.7536	-3.8624	4300	46206.4	12:50:06	4.3	1250:06, 4.3
12	50	11.1	-44.4986	-3.9092	4100	46211.1	12:50:11	4.1	1250:11, 4.1
12	50	15.7	-44.3012	-3.7549	4000	46215.7	12:50:16	4.0	1250:16, 4
12	50	20.4	-44.0603	-3.8707	3800	46220.4	12:50:20	3.8	1250:20, 3.8
12	50	25.1	-43.9645	-3.4548	3700	46225.1	12:50:25	3.7	1250:25, 3.7





Primary Radar Data

	time	x-nm	y-nm
	min sec		
1	42 15	-47.18	-8.41
2	42 38	-46.33	-7.16
3	42 38	-46.44	-7.39
4	42 48	-46.97	-7.63
5	42 57	-47.37	-7.02
6	43 2	-47.45	-6.74
7	43 25	-49.11	-8.52
8	43 44	-47.77	-5.89
9	43 48	-47.84	-5.67
10	43 48	-50.19	-9.42
11	44 12	-48.07	-5.03
12	44 49	-49.69	-13.01
13	44 54	-49.43	-13.02
14	45 8	-48.48	-13.23
15	45 40	-46.76	-12.86
16	45 54	-46.19	-12.25

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