

NATIONAL TRANSPORTATION SAFETY BOARD
Office of Research and Engineering
Washington, D.C. 20594

November 2, 1998

Recorded Radar Study

Specialist's Report of Investigation
by **Cassandra Johnson**

A. ACCIDENT

Location: Palembang, Indonesia
Date: December 19, 1997
Time: 0913 Coordinated Universal Time (UTC)
Aircraft: Boeing 737-300
NTSB#: DCA98RA013

B. GROUP

Not Applicable

C. SUMMARY

On December 19th, 1997, a Silk Air B-737-300, registration 9V-TRF, was en route from Jakarta, Indonesia to Singapore at 35,000 feet (ft) mean sea level (msl), when it disappeared from the radar screen and crashed at the mouth of a river about 33 miles northeast of Palembang, Indonesia. The 7 crewmembers and 94 passengers on board received fatal injuries and the airplane was destroyed. The ongoing investigation of the accident is being conducted by the Government of Indonesia. The Safety Board is participating in the investigation under provision of Annex 13 to the International Convention on Civil Aviation.

This radar study uses 9V-TRF's flight data recorder's (FDR's) latitude, longitude and altitude datum (refer to the FDR Factual Report for the FDR data) as the basis for calculating corrections (both position and time) and position accuracy limitations of the radar data representing 9V-TRF which was supplied by the Raytheon Systems Company. In summary, NTSB made the following conclusions about the radar data:

- A 58 ACPs¹ (4096 ACPs equal 360°) azimuth correction was applied to two separate radar segments (original radar times 9:09:06.518² to 9:12:01.957 and 9:12:17.891 to 9:12:57.82).

¹ ACP is the Federal Aviation Administration acronym for Azimuth Change Pulse.

² The original radar times are Coordinated Universal Time (UTC) as calculated by the Raytheon Systems Company.

- Using time reference messages, the radar times were recalculated (the recalculated times are called radar fixed times).
- A common time reference was needed to align the radar fixed times to the FDR times; therefore, 48.7 seconds were subtracted from all of the radar fixed times.
- A negative 0.338 nautical mile (nm) range correction and a positive 0.397° azimuth correction were applied to the radar data to align the radar ground track to the FDR ground track.
- The accuracy limitations for the radar data were calculated to be +/- 0.16 nm in range and +/- 0.85° in azimuth.

Refer to attachments V-1 to V-4 (file r4final.xls) for the final range/azimuth radar data and the final radar times. Furthermore, refer to attachments V-5 to V-8 (file r4finalxy.xls) for the final x/y radar position data, where the origin is the Palembang radar site (02° 53' 49" South and 104° 42' 24.02" East), and the final radar times.

The final x/y radar position data with the final times (from file r4finalxy.xls) were graphed in attachments IX-1 to IX-3. Specifically, attachment IX-1 graphically shows 9V-TRF's radar flight path between the final times 09:08:57.799³ to 09:12:41.178 and the FDR latitude/longitude flight path from 09:08:56 to 09:11:24. Attachment IX-2 graphically shows, in greater detail, 9V-TRF's radar flight path between the times 09:11:13.368 to 09:12:41.178 with the corresponding accuracy limitation position boxes and the FDR latitude/longitude flight path from 09:11:16 to 09:11:24. Attachment IX-3 graphically shows 9V-TRF's radar flight path in three dimension along with 9V-TRF's ground track between the times 09:11:13.368 to 9:12:41.178.

D. DETAILS OF INVESTIGATION

Section I - Recorded Radar Data

Two sets of radar data (track radar data and plot radar data) were obtained from Raytheon Systems Company for 9V-TRF (see attachments I-1 to I-41) in ASCII format on diskette for the accident aircraft's final flight. Track radar data from the Palembang radar site (radar site 4) were extracted from 5trkorig.txt (attachments I-1 to I-22) and entered into the file trk4.txt (attachments II-1 to II-4). Plot radar data from the Palembang radar site (radar site 4) were extracted from 6pltorig.txt (attachments I-23 to I-41) and entered into the file plt4.txt (attachments II-5 to II-8). The track data had the best position data for 9V-TRF except for the last radar return; whereas, the plot data had the best position data for the last radar return⁴. The radar data provided the range⁵, azimuth⁶ and altitude⁷ of 9V-TRF down to an altitude of 19,500 feet. File trk4last.xls

³ Unless otherwise stated, all final radar times from here out are synchronized to the FDR time.

⁴ Raytheon Systems Company stated that the actual descent rate between the last two points from the track data exceeded the allowable descent rate of Raytheon's system; therefore, the tracking software used a projected track altitude using the allowable descent rate to calculate the last track range/azimuth position data. This projected track altitude was much greater than the actual altitude of 19,500 feet (ft) above mean sea level (msl); therefore Raytheon's system incorrectly calculated the last track range/azimuth position of the aircraft.

⁵ The ranges are slant range from the associated radar system.

⁶ The azimuths are measured true north from the associated radar system.

(attachments II-9 to II-12) contains the original range, azimuth and time data from the track radar data except for the last range and azimuth position which came from the plot radar data. These range/azimuth data were converted to x/y position data which are found in file trk4lastxy.xls (attachments II-13 to II-16).

Attachment III-1 graphically shows the original range/azimuth radar data versus the original radar time (data from file trk4last.xls). The graph indicated that an azimuth correction of 58 ACPs needed to be applied to the radar data between the two original radar time segments 9:09:06.518 to 9:12:01.957 and 9:12:17.891 to 9:12:57.82. The graph also indicated that no range correction was needed. File trk4la58.xls (attachments III-3 to III-6) contains the range/azimuth radar data with the azimuth correction applied to the above mentioned time segments. These range/azimuth radar data were converted to x/y position data which are found in file trk4la58xy.xls (attachments III-7 to III-10). Attachment III-2 graphically shows the original x/y position radar (from trk4lastxy.xls) graphed along with the fixed x/y position radar data (from trk4la58xy.xls).

Columns A through F in attachments IV-1 to IV-12 (file r4_time_azref.xls) contain the original time reference messages associated with each radar return which were supplied by the Raytheon Systems Company. The time reference messages were needed to recalculate all of the radar return times, especially for the two time segments mentioned above that had had a positive 58 ACP azimuth correction and the last radar return which was replaced with the plot radar azimuth data. Each radar data time was recalculated by knowing the time the radar return swept past 0° azimuth, the time it took for the 360° sweep and the recorded azimuth value.

$$\text{The calculated radar time} = \left\{ \begin{array}{l} \text{The time the radar swept} \\ \text{past 0 degrees azimuth} \\ \text{(seconds)} \end{array} \right\} + \left\{ \begin{array}{l} \text{The actual recorded} \\ \text{azimuth value (degrees)} \\ \hline \text{The time azimuth swept} \\ \text{in 360 degrees (seconds)} \\ \hline 360 \text{ degrees} \end{array} \right\}$$

Attachments IV-1 to IV-12 show the different steps taken to recalculate the radar times which from here out will be called radar fixed times (columns S, T, U and V contain the radar fixed times). File trk4fixratime.xls (attachments IV-13 to IV-16) contains the radar fixed times and the fixed azimuth data. This range/azimuth data were converted to x/y position data which are found in file r4_fixedxy.xls (attachments IV-17 to IV-20).

A common time reference was needed for the radar data and the FDR data; therefore, a time correction for the radar fixed times was calculated. This was accomplished by cross plotting the radar data fixed times versus the radar data altitude with the FDR time versus the FDR altitude (these numerous graphs are not included). A negative 48.7 second time correction was applied to

⁷ The altitudes values reflect the reported Mode C altitude of the aircraft.

the radar data fixed times in order for the two traces to align and to establish a common time reference.

Next, using the FDR ground track as the ground track basis, the radar data needed to be rotated and moved onto the FDR ground track (i.e., an azimuth correction and a range correction needed to be applied to the radar data); therefore, aligning the radar ground track onto the FDR ground track. This was accomplished by graphing the FDR ground track and separately graphing the radar data ground track (data from file r4_fixedxy.xls) onto a transparency. Then the radar ground track was overlaid onto the FDR ground track and a range correction of negative 0.338 nm and a azimuth correction of positive 0.397° were calculated. Therefore, a negative 0.338 nm range correction needed to be applied to the radar data range and a 0.397° azimuth correction needed to be applied to the fixed radar data azimuth. File r4final.xls contains the final range/azimuth radar data and the final radar times (attachments V-1 to V-4). These range/azimuth data were converted to x/y position data which are found in file r4finalxy.xls (attachments V-5 to V-8).

The range and azimuth corrections applied to the radar data needed to be verified. First, the final radar north range versus the final radar time (data from file r4finalxy.xls) and the FDR north range versus the FDR time were graphed. Then the final east range versus the final radar time (data from file r4finalxy.xls) and the FDR east range versus the FDR time were graphed. These north/east range versus time graphs gave a visual verification that the range and azimuth corrections were calculated correctly (see attachments VI-1 to VI-12).


Lastly, the final radar data position accuracy limitations were calculated by graphing and comparing the final radar range/azimuth data versus the final radar time with the FDR range/azimuth data versus FDR time between the times 9:06:30 and 9:11:30 (see attachments VII-1 to VII-16). The accuracy limitations for the radar data positions were calculated to be +/- 0.16 nm in range and +/- 0.85 degrees in azimuth. File r4box10bxy.xls in attachments VIII-1 and VIII-2 comprise the x/y position accuracy limitation boxes for the last 12 radar returns.

Throughout this study, three separate computer programs were used. The first computer program ROTATET2 was used to convert range/azimuth datum to x/y position datum, where the magnetic variation was 0° (see footnote 6). The second computer program LATS was used to convert latitude/longitude position datum to x/y position datum, where the Palembang radar site is the origin of the data (02° 53' 49" South and 104° 42' 24.02" East). The last computer program XY_TO_RA was used to convert latitude/longitude data to range/azimuth data again using the Palembang radar site as the origin of the data.

Section II - Plotted Data

The final x/y radar position data with the final times (from file r4finalxy.xls) were graphed in attachments IX-1 to IX-3. Specifically, attachment IX-1 graphically shows 9V-TRF's radar flight path between the final times 09:08:57.799 to 09:12:41.178 and the FDR latitude/longitude flight path from 09:08:56 to 09:11:24. Attachment IX-2 graphically shows, in greater detail, 9V-

TRF's radar flight path between the times 09:11:13.368 to 09:12:41.178 with the corresponding accuracy limitation position boxes and the FDR latitude/longitude flight path from 09:11:16 to 09:11:24. Attachment IX-3 graphically shows 9V-TRF's radar flight path in three dimension along with 9V-TRF's ground track between the times 09:11:13.368 to 9:12:41.178.


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 Mechanical Engineer

Enclosures:

Attachments I-1 to I-41:	Original Radar Data
Attachments II-1 to II-16:	Data Files: Pertinent Position Data (Extracted from the Original Radar Data)
Attachments III-1 to III-10:	Pertinent Range/Azimuth Correction Files and Graphs
Attachments IV-1 to IV-20:	Data Files: Time Correction
Attachments V-1 to V-8:	Data Files: Final Positions & Final Times
Attachments VI-1 to VI-12:	Graphical Plots: Final North/East Distance versus Time
Attachments VII-1 to VII-16:	Graphical Plots: Final Azimuth/Range versus Time
Attachments VIII-1 and VIII-2:	Data File: Error Box Data for Last 12 Radar Returns
Attachments IX-1 to IX-3:	Final Graphical Plots

Attachments I – Original Radar Data

File Name: Strkorig.txt

Note: Repeated Information

Rec Date = 97/12/19; SSR Code = 8#2344#; Track Status = ESTABL; Track ID = 90

Rec Time	Track Time	Radar Source	Mode C Code	Mode C Valid	Track Categ	X Pos	Y Pos	X Vel	Y Vel	Range (NMI)	Azimuth (Rad)	Latitude	Longitude	Grd Spd
08:38:21.820	08:38:18.981	1	591	TRUE	SSR	-6.55	-196.38	-0.036357	-0.008486	1.626	272.802704	-6.116171	106.647316	134
08:38:27.112	08:38:24.981	1	646	TRUE	EXTRAP	-6.76	-196.43	-0.036357	-0.008486	1.839	270.945892	-6.116992	106.643730	134
08:38:27.411	08:38:25.336	0	652	TRUE	EXTRAP	-6.77	-196.43	-0.036357	-0.008486	-----	-----	-6.117043	106.643509	134
08:38:27.912	08:38:25.250	1	891	TRUE	SSR	-6.79	-196.48	-0.037431	-0.010747	1.873	269.498993	-6.117773	106.643204	140
08:38:32.412	08:38:30.338	0	944	TRUE	EXTRAP	-6.98	-196.52	-0.037431	-0.010747	-----	-----	-6.118507	106.640075	140
08:38:33.312	08:38:31.250	1	969	TRUE	EXTRAP	-7.01	-196.53	-0.037431	-0.010747	2.096	268.079834	-6.118672	106.639496	140
08:38:33.832	08:38:31.543	1	1091	TRUE	SSR	-7.07	-196.54	-0.038929	-0.011338	2.155	267.838074	-6.118856	106.638535	146
08:38:37.411	08:38:35.338	0	1169	TRUE	EXTRAP	-7.20	-196.58	-0.038929	-0.011338	-----	-----	-6.119606	106.636353	146
08:38:39.612	08:38:37.543	1	1243	TRUE	EXTRAP	-7.28	-196.61	-0.038929	-0.011338	2.377	266.344666	-6.120028	106.634895	146
08:38:39.712	08:38:37.865	1	1291	TRUE	SSR	-7.31	-196.54	-0.039297	-0.009816	2.405	268.011902	-6.118891	106.634384	146
08:38:42.413	08:38:40.339	0	1362	TRUE	EXTRAP	-7.40	-196.60	-0.039297	-0.009816	-----	-----	-6.119888	106.632896	146
08:38:45.912	08:38:43.865	1	1487	TRUE	EXTRAP	-7.54	-196.64	-0.039297	-0.009816	2.641	266.127747	-6.120473	106.630554	146
08:38:46.012	08:38:44.231	1	1491	TRUE	SSR	-7.56	-196.39	-0.039511	-0.005594	2.656	271.522186	-6.116322	106.630219	144
08:38:47.410	08:38:45.338	0	1534	TRUE	EXTRAP	-7.60	-196.53	-0.039511	-0.005594	-----	-----	-6.118673	106.629486	144
08:38:52.310	08:38:50.231	1	1705	TRUE	EXTRAP	-7.80	-196.56	-0.039511	-0.005594	2.897	268.056793	-6.119136	106.626221	144
08:38:52.412	08:38:50.340	0	1709	TRUE	EXTRAP	-7.80	-196.56	-0.039511	-0.005594	-----	-----	-6.119145	106.626144	144
08:38:52.612	08:38:50.640	1	1591	TRUE	SSR	-7.78	-196.15	-0.038975	-0.000130	2.893	276.318970	-6.112186	106.626526	140
08:38:57.411	08:38:55.340	0	1783	TRUE	EXTRAP	-7.99	-196.39	-0.038975	-0.000130	-----	-----	-6.116262	106.622948	140
08:38:58.414	08:38:57.040	1	1691	TRUE	SSR	-8.00	-195.87	-0.038634	0.011984	3.154	280.921082	-6.107527	106.622826	146
08:39:02.412	08:39:00.341	0	1823	TRUE	EXTRAP	-8.18	-196.15	-0.038634	0.011984	-----	-----	-6.112188	106.619812	146
08:39:05.113	08:39:03.438	1	1891	TRUE	SSR	-8.15	-195.53	-0.036956	0.024217	3.389	286.101410	-6.101822	106.620193	159
08:39:07.411	08:39:05.342	0	1926	TRUE	EXTRAP	-8.34	-195.86	-0.036956	0.024217	-----	-----	-6.107316	106.617119	159
08:39:11.312	08:39:09.824	1	2091	TRUE	SSR	-8.31	-195.20	-0.034578	0.035363	3.648	290.575226	-6.096120	106.617554	178
08:39:12.413	08:39:10.343	0	2067	TRUE	EXTRAP	-8.48	-195.55	-0.034578	0.035363	-----	-----	-6.102038	106.614754	178
08:39:17.412	08:39:15.342	0	2190	TRUE	EXTRAP	-8.65	-195.37	-0.034578	0.035363	-----	-----	-6.099047	106.611832	178
08:39:17.912	08:39:16.206	1	2391	TRUE	SSR	-8.46	-194.83	-0.032101	0.045581	3.940	294.848022	-6.089908	106.614929	201
08:39:22.411	08:39:20.345	0	2448	TRUE	EXTRAP	-8.76	-194.98	-0.032101	0.045581	-----	-----	-6.092523	106.609901	201
08:39:24.213	08:39:22.206	1	2513	TRUE	EXTRAP	-8.82	-194.90	-0.032101	0.045581	4.244	291.923553	-6.091086	106.608894	201
08:39:24.311	08:39:22.604	1	2691	TRUE	SSR	-8.62	-194.46	-0.029516	0.053704	4.250	298.517792	-6.083700	106.612305	221
08:39:27.411	08:39:25.343	0	2733	TRUE	EXTRAP	-8.87	-194.60	-0.029516	0.053704	-----	-----	-6.086052	106.608162	221
08:39:30.310	08:39:28.974	1	2991	TRUE	SSR	-8.71	-194.03	-0.026040	0.059951	4.557	302.757660	-6.076446	106.610710	235
08:39:32.413	08:39:30.345	0	3012	TRUE	EXTRAP	-8.95	-194.22	-0.026040	0.059951	-----	-----	-6.079519	106.606812	235
08:39:37.012	08:39:34.974	1	3242	TRUE	EXTRAP	-9.07	-193.94	-0.026040	0.059951	4.911	301.459808	-6.074824	106.604774	235
08:39:37.112	08:39:35.347	1	3291	TRUE	SSR	-8.81	-193.64	-0.021991	0.063080	4.866	306.152863	-6.069715	106.609116	240

08:39:37.410	08:39:35.344	0	3276	TRUE	EXTRAP	-9.01	-193.85	-0.021991	0.063080	-----	-----	-6.073274	106.605759	240
08:39:42.410	08:39:40.345	0	3533	TRUE	EXTRAP	-9.12	-193.53	-0.021991	0.063080	-----	-----	-6.067936	106.603897	240
08:39:43.312	08:39:41.740	1	3491	TRUE	SSR	-8.94	-193.24	-0.018889	0.065311	5.215	308.914154	-6.062967	106.606972	245
08:39:47.409	08:39:45.344	0	3707	TRUE	EXTRAP	-9.16	-193.16	-0.018889	0.065311	-----	-----	-6.061603	106.603142	245
08:39:49.709	08:39:48.082	1	3791	TRUE	SSR	-9.03	-192.84	-0.016064	0.065891	5.551	311.539093	-6.056237	106.605377	244
08:39:52.410	08:39:50.345	0	3906	TRUE	EXTRAP	-9.20	-192.80	-0.016064	0.065891	-----	-----	-6.055579	106.602455	244
08:39:56.109	08:39:54.418	1	3991	TRUE	SSR	-9.16	-192.41	-0.014860	0.068236	5.942	313.863586	-6.048963	106.603218	251
08:39:57.408	08:39:55.344	0	4068	TRUE	EXTRAP	-9.26	-192.43	-0.014860	0.068236	-----	-----	-6.049335	106.601570	251
08:40:02.311	08:40:00.782	1	4291	TRUE	SSR	-9.28	-192.01	-0.014237	0.069008	6.319	315.704956	-6.042231	106.601089	254
08:40:02.410	08:40:00.345	0	4265	TRUE	EXTRAP	-9.32	-192.08	-0.014237	0.069008	-----	-----	-6.043335	106.600525	254
08:40:07.408	08:40:05.345	0	4458	TRUE	EXTRAP	-9.39	-191.73	-0.014237	0.069008	-----	-----	-6.037496	106.599327	254
08:40:08.813	08:40:06.782	1	4513	TRUE	EXTRAP	-9.41	-191.63	-0.014237	0.069008	6.685	317.232361	-6.035819	106.598984	254
08:40:08.909	08:40:07.134	1	4591	TRUE	SSR	-9.41	-191.58	-0.014408	0.070159	6.724	317.515442	-6.034975	106.598953	258
08:40:12.409	08:40:10.344	0	4696	TRUE	EXTRAP	-9.46	-191.37	-0.014408	0.070159	-----	-----	-6.031394	106.598114	258
08:40:15.009	08:40:13.481	1	4891	TRUE	SSR	-9.54	-191.15	-0.014988	0.070923	7.136	319.118378	-6.027718	106.596817	261
08:40:17.409	08:40:15.345	0	4946	TRUE	EXTRAP	-9.54	-191.01	-0.014988	0.070923	-----	-----	-6.025363	106.596733	261
08:40:21.313	08:40:19.830	1	5091	TRUE	SSR	-9.66	-190.72	-0.015773	0.071100	7.553	320.547363	-6.020438	106.594666	262
08:40:22.410	08:40:20.345	0	5142	TRUE	EXTRAP	-9.63	-190.66	-0.015773	0.071100	-----	-----	-6.019427	106.595222	262
08:40:27.407	08:40:25.346	0	5353	TRUE	EXTRAP	-9.71	-190.31	-0.015773	0.071100	-----	-----	-6.013411	106.593887	262
08:40:27.811	08:40:26.173	1	5391	TRUE	SSR	-9.79	-190.26	-0.016871	0.072246	7.998	321.962677	-6.012657	106.592522	267
08:40:32.409	08:40:30.346	0	5567	TRUE	EXTRAP	-9.81	-189.94	-0.016871	0.072246	-----	-----	-6.007242	106.592171	267
08:40:34.008	08:40:32.490	1	5591	TRUE	SSR	-9.95	-189.80	-0.018552	0.074325	8.467	323.054657	-6.004849	106.589828	276
08:40:37.407	08:40:35.347	0	5733	TRUE	EXTRAP	-9.93	-189.57	-0.018552	0.074325	-----	-----	-6.000862	106.590202	276
08:40:40.311	08:40:38.838	1	5891	TRUE	SSR	-10.11	-189.34	-0.020220	0.075513	8.938	324.034546	-5.997069	106.587166	281
08:40:42.409	08:40:40.346	0	5940	TRUE	EXTRAP	-10.05	-189.19	-0.020220	0.075513	-----	-----	-5.994535	106.588081	281
08:40:46.811	08:40:45.152	1	6091	TRUE	SSR	-10.27	-188.88	-0.021735	0.075795	9.412	324.915131	-5.989262	106.584480	284
08:40:47.406	08:40:45.347	0	6118	TRUE	EXTRAP	-10.19	-188.82	-0.021735	0.075795	-----	-----	-5.988279	106.585869	284
08:40:52.408	08:40:50.347	0	6306	TRUE	EXTRAP	-10.29	-188.44	-0.021735	0.075795	-----	-----	-5.981866	106.584038	284
08:40:53.207	08:40:51.500	1	6391	TRUE	SSR	-10.49	-188.36	-0.024506	0.080074	9.974	325.612793	-5.980433	106.580757	301
08:40:57.406	08:40:55.348	0	6524	TRUE	EXTRAP	-10.46	-188.02	-0.024506	0.080074	-----	-----	-5.974759	106.581245	301
08:40:59.507	08:40:57.500	1	6610	TRUE	EXTRAP	-10.51	-187.85	-0.024506	0.080074	10.416	327.103455	-5.971843	106.580353	301
08:40:59.607	08:40:57.847	1	6591	TRUE	SSR	-10.68	-187.87	-0.026712	0.081754	10.494	326.285339	-5.972103	106.577553	310
08:41:02.409	08:41:00.349	0	6702	TRUE	EXTRAP	-10.63	-187.62	-0.026712	0.081754	-----	-----	-5.967884	106.578384	310
08:41:05.710	08:41:04.173	1	6791	TRUE	SSR	-10.87	-187.37	-0.028350	0.081359	11.016	326.893951	-5.963773	106.574341	310
08:41:07.407	08:41:05.349	0	6859	TRUE	EXTRAP	-10.80	-187.22	-0.028350	0.081359	-----	-----	-5.961233	106.575516	310
08:41:12.006	08:41:10.477	1	6991	TRUE	SSR	-11.09	-186.88	-0.030047	0.080797	11.555	327.315796	-5.955446	106.570610	310
08:41:12.406	08:41:10.349	0	7009	TRUE	EXTRAP	-10.98	-186.83	-0.030047	0.080797	-----	-----	-5.954639	106.572517	310
08:41:17.405	08:41:15.350	0	7170	TRUE	EXTRAP	-11.13	-186.43	-0.030047	0.080797	-----	-----	-5.947802	106.569977	310
08:41:18.410	08:41:16.799	1	7191	TRUE	SSR	-11.28	-186.36	-0.031395	0.080952	12.105	327.903412	-5.946591	106.567390	313
08:41:22.418	08:41:20.351	0	7312	TRUE	EXTRAP	-11.31	-186.03	-0.031395	0.080952	-----	-----	-5.941083	106.566887	313
08:41:24.606	08:41:23.135	1	7391	TRUE	SSR	-11.47	-185.84	-0.032307	0.081185	12.657	328.441376	-5.937736	106.564186	315
08:41:27.411	08:41:25.352	0	7461	TRUE	EXTRAP	-11.49	-185.63	-0.032307	0.081185	-----	-----	-5.934289	106.563896	315
08:41:31.006	08:41:29.425	1	7591	TRUE	SSR	-11.66	-185.34	-0.032612	0.079774	13.182	328.863342	-5.929406	106.560974	310

08:41:32.407	08:41:30.353	0	7616	TRUE	EXTRAP	-11.66	-185.24	-0.032612	0.079774	-----	-----	-5.927710	106.560997	310
08:41:37.205	08:41:35.776	1	7891	TRUE	SSR	-11.79	-184.76	-0.032293	0.081615	13.758	329.676208	-5.919522	106.558807	316
08:41:37.405	08:41:35.353	0	7823	TRUE	EXTRAP	-11.81	-184.82	-0.032293	0.081615	-----	-----	-5.920633	106.558426	316
08:41:42.405	08:41:40.353	0	8007	TRUE	EXTRAP	-11.97	-184.42	-0.032293	0.081615	-----	-----	-5.913726	106.555702	316
08:41:43.706	08:41:42.108	1	8191	TRUE	SSR	-11.95	-184.18	-0.031818	0.085413	14.352	330.313873	-5.909639	106.556114	328
08:41:47.406	08:41:45.354	0	8275	TRUE	EXTRAP	-12.11	-183.96	-0.031818	0.085413	-----	-----	-5.905932	106.553299	328
08:41:50.108	08:41:48.441	1	8391	TRUE	SSR	-12.11	-183.62	-0.030804	0.087146	14.920	330.843048	-5.900258	106.553421	333
08:41:52.405	08:41:50.355	0	8481	TRUE	EXTRAP	-12.25	-183.50	-0.030804	0.087146	-----	-----	-5.898256	106.551071	333
08:41:56.205	08:41:54.766	1	8691	TRUE	SSR	-12.30	-183.07	-0.029932	0.088117	15.504	331.231964	-5.890903	106.550217	335
08:41:57.406	08:41:55.356	0	8706	TRUE	EXTRAP	-12.38	-183.05	-0.029932	0.088117	-----	-----	-5.890620	106.548820	335
08:42:02.405	08:42:00.356	0	8925	TRUE	EXTRAP	-12.53	-182.61	-0.029932	0.088117	-----	-----	-5.883163	106.546295	335
08:42:02.706	08:42:01.089	1	8991	TRUE	SSR	-12.49	-182.52	-0.029231	0.088478	16.088	331.592377	-5.881547	106.547012	335
08:42:07.405	08:42:05.356	0	9170	TRUE	EXTRAP	-12.66	-182.16	-0.029231	0.088478	-----	-----	-5.875550	106.544090	335
08:42:08.807	08:42:07.399	1	9291	TRUE	SSR	-12.71	-181.96	-0.029180	0.089239	16.688	331.833496	-5.872193	106.543289	338
08:42:12.405	08:42:10.357	0	9417	TRUE	EXTRAP	-12.80	-181.71	-0.029180	0.089239	-----	-----	-5.867898	106.541664	338
08:42:15.109	08:42:13.730	1	9591	TRUE	SSR	-12.93	-181.38	-0.029758	0.091552	17.316	332.103271	-5.862316	106.539551	347
08:42:17.406	08:42:15.357	0	9662	TRUE	EXTRAP	-12.96	-181.24	-0.029758	0.091552	-----	-----	-5.859970	106.539047	347
08:42:21.606	08:42:20.056	1	9891	TRUE	SSR	-13.15	-180.83	-0.030363	0.091733	17.916	332.310364	-5.852963	106.535828	348
08:42:22.404	08:42:20.358	0	9904	TRUE	EXTRAP	-13.12	-180.78	-0.030363	0.091733	-----	-----	-5.852253	106.536324	348
08:42:27.403	08:42:25.359	0	10145	TRUE	EXTRAP	-13.27	-180.33	-0.030363	0.091733	-----	-----	-5.844491	106.533752	348
08:42:27.806	08:42:26.359	1	10191	TRUE	SSR	-13.37	-180.27	-0.031034	0.090869	18.516	332.504089	-5.843610	106.532104	346
08:42:32.405	08:42:30.359	0	10384	TRUE	EXTRAP	-13.44	-179.88	-0.031034	0.090869	-----	-----	-5.836995	106.530876	346
08:42:34.105	08:42:32.673	1	10491	TRUE	SSR	-13.65	-179.72	-0.032626	0.091019	19.145	332.517883	-5.834263	106.527344	348
08:42:37.403	08:42:35.360	0	10621	TRUE	EXTRAP	-13.64	-179.44	-0.032626	0.091019	-----	-----	-5.829434	106.527603	348
08:42:40.408	08:42:38.996	1	10791	TRUE	SSR	-13.96	-179.17	-0.035132	0.091890	19.788	332.450714	-5.824918	106.522057	354
08:42:42.407	08:42:40.361	0	10858	TRUE	EXTRAP	-13.86	-178.99	-0.035132	0.091890	-----	-----	-5.821827	106.523903	354
08:42:46.822	08:42:45.313	1	11091	TRUE	SSR	-14.28	-178.62	-0.038029	0.092346	20.431	332.387695	-5.815573	106.516769	360
08:42:47.402	08:42:45.362	0	11094	TRUE	EXTRAP	-14.09	-178.54	-0.038029	0.092346	-----	-----	-5.814271	106.519882	360
08:42:52.404	08:42:50.363	0	11331	TRUE	EXTRAP	-14.28	-178.08	-0.038029	0.092346	-----	-----	-5.806455	106.516670	360
08:42:53.104	08:42:51.653	1	11391	TRUE	SSR	-14.59	-178.06	-0.040930	0.091829	21.074	332.328308	-5.806229	106.511482	362
08:42:57.402	08:42:55.364	0	11567	TRUE	EXTRAP	-14.55	-177.64	-0.040930	0.091829	-----	-----	-5.799049	106.512199	362
08:42:59.304	08:42:57.966	1	11791	TRUE	SSR	-14.87	-177.51	-0.043215	0.090015	21.703	332.345886	-5.796904	106.506729	359
08:43:02.402	08:43:00.365	0	11869	TRUE	EXTRAP	-14.81	-177.22	-0.043215	0.090015	-----	-----	-5.791874	106.507759	359
08:43:05.702	08:43:04.302	1	12091	TRUE	SSR	-15.19	-176.99	-0.045180	0.086807	22.319	332.254395	-5.788084	106.501450	352
08:43:07.401	08:43:05.366	0	12142	TRUE	EXTRAP	-15.08	-176.81	-0.045180	0.086807	-----	-----	-5.785027	106.503250	352
08:43:11.805	08:43:10.592	1	12391	TRUE	SSR	-15.50	-176.47	-0.046982	0.084194	22.934	332.167969	-5.779264	106.496170	347
08:43:12.403	08:43:10.367	0	12395	TRUE	EXTRAP	-15.35	-176.41	-0.046982	0.084194	-----	-----	-5.778269	106.498703	347
08:43:17.401	08:43:15.369	0	12654	TRUE	EXTRAP	-15.58	-175.99	-0.046982	0.084194	-----	-----	-5.771142	106.494736	347
08:43:18.203	08:43:16.938	1	12691	TRUE	SSR	-15.81	-175.92	-0.048740	0.084109	23.577	332.120941	-5.769921	106.490887	350
08:43:22.402	08:43:20.370	0	12882	TRUE	EXTRAP	-15.86	-175.58	-0.048740	0.084109	-----	-----	-5.764215	106.490021	350
08:43:24.602	08:43:23.268	1	13100	TRUE	SSR	-16.12	-175.37	-0.050235	0.085120	24.222	332.076111	-5.760577	106.485596	356
08:43:27.402	08:43:25.371	0	13177	TRUE	EXTRAP	-16.14	-175.16	-0.050235	0.085120	-----	-----	-5.757052	106.485329	356
08:43:30.804	08:43:29.582	1	13400	TRUE	SSR	-16.44	-174.81	-0.051339	0.086192	24.865	332.033966	-5.751233	106.480309	361

08:43:32.402	08:43:30.373	0	13443	TRUE	EXTRAP	-16.41	-174.73	-0.051339	0.086192	-----	-----	-5.749775	106.480705	361
08:43:37.202	08:43:35.908	1	13700	TRUE	SSR	-16.90	-174.36	-0.053519	0.084674	25.498	331.585602	-5.743475	106.472443	361
08:43:37.404	08:43:35.374	0	13692	TRUE	EXTRAP	-16.72	-174.32	-0.053519	0.084674	-----	-----	-5.742933	106.475540	361
08:43:42.404	08:43:40.376	0	13948	TRUE	EXTRAP	-16.99	-173.90	-0.053519	0.084674	-----	-----	-5.735765	106.471016	361
08:43:43.605	08:43:42.244	1	14000	TRUE	SSR	-17.19	-173.80	-0.054484	0.083271	26.127	331.617645	-5.734129	106.467674	358
08:43:47.406	08:43:45.377	0	14174	TRUE	EXTRAP	-17.28	-173.50	-0.054484	0.083271	-----	-----	-5.728998	106.466057	358
08:43:50.004	08:43:48.568	1	14300	TRUE	SSR	-17.50	-173.25	-0.054976	0.083258	26.770	331.589142	-5.724785	106.462387	359
08:43:52.403	08:43:50.379	0	14399	TRUE	EXTRAP	-17.57	-173.09	-0.054976	0.083258	-----	-----	-5.722003	106.461250	359
08:43:56.204	08:43:54.897	1	14500	TRUE	SSR	-17.87	-172.70	-0.055908	0.085364	27.443	331.447266	-5.715426	106.456047	367
08:43:57.401	08:43:55.380	0	14574	TRUE	EXTRAP	-17.86	-172.66	-0.055908	0.085364	-----	-----	-5.714698	106.456329	367
08:44:02.403	08:44:00.382	0	14777	TRUE	EXTRAP	-18.14	-172.23	-0.055908	0.085364	-----	-----	-5.707471	106.451607	367
08:44:02.604	08:44:01.209	1	14800	TRUE	SSR	-18.22	-172.15	-0.056474	0.086824	28.101	331.368774	-5.706085	106.450249	373
08:44:07.401	08:44:05.382	0	14972	TRUE	EXTRAP	-18.43	-171.79	-0.056474	0.086824	-----	-----	-5.699967	106.446686	373
08:44:08.805	08:44:07.508	1	15100	TRUE	SSR	-18.53	-171.60	-0.056262	0.086767	28.744	331.347748	-5.696742	106.444962	372
08:44:12.400	08:44:10.384	0	15202	TRUE	EXTRAP	-18.71	-171.35	-0.056262	0.086767	-----	-----	-5.692607	106.442001	372
08:44:15.102	08:44:13.856	1	15400	TRUE	SSR	-18.81	-171.01	-0.055278	0.086957	29.401	331.410522	-5.686872	106.440193	371
08:44:17.399	08:44:15.385	0	15445	TRUE	EXTRAP	-18.96	-170.91	-0.055278	0.086957	-----	-----	-5.685122	106.437645	371
08:44:21.600	08:44:20.171	1	15700	TRUE	SSR	-19.13	-170.43	-0.054274	0.088346	30.072	331.417572	-5.677004	106.434898	373
08:44:22.401	08:44:20.386	0	15692	TRUE	EXTRAP	-19.22	-170.45	-0.054274	0.088346	-----	-----	-5.677425	106.433388	373
08:44:27.399	08:44:25.388	0	15930	TRUE	EXTRAP	-19.49	-170.01	-0.054274	0.088346	-----	-----	-5.669947	106.428818	373
08:44:27.805	08:44:26.486	1	15900	TRUE	SSR	-19.44	-169.85	-0.053260	0.090043	30.743	331.424591	-5.667116	106.429604	377
08:44:32.399	08:44:30.387	0	16107	TRUE	EXTRAP	-19.73	-169.54	-0.053260	0.090043	-----	-----	-5.661978	106.424721	377
08:44:34.103	08:44:32.831	1	16300	TRUE	SSR	-19.75	-169.26	-0.052160	0.091022	31.414	331.431763	-5.657270	106.424324	378
08:44:37.399	08:44:35.391	0	16380	TRUE	EXTRAP	-19.97	-169.07	-0.052160	0.091022	-----	-----	-5.654036	106.420708	378
08:44:40.669	08:44:39.138	1	16600	TRUE	SSR	-20.07	-168.68	-0.051153	0.091795	32.085	331.437836	-5.647403	106.419037	378
08:44:42.469	08:44:40.391	0	16644	TRUE	EXTRAP	-20.20	-168.60	-0.051153	0.091795	-----	-----	-5.646084	106.416725	378
08:44:46.770	08:44:45.463	1	16900	TRUE	SSR	-20.38	-168.10	-0.050253	0.092201	32.755	331.444214	-5.637538	106.413750	378
08:44:47.469	08:44:45.391	0	16896	TRUE	EXTRAP	-20.44	-168.13	-0.050253	0.092201	-----	-----	-5.638154	106.412750	378
08:44:52.368	08:44:50.362	0	17146	TRUE	EXTRAP	-20.69	-167.68	-0.050253	0.092201	-----	-----	-5.630398	106.408531	378
08:44:53.072	08:44:51.796	1	17200	TRUE	SSR	-20.72	-167.51	-0.049932	0.093045	33.441	331.403137	-5.627673	106.407944	380
08:44:57.369	08:44:55.363	0	17385	TRUE	EXTRAP	-20.93	-167.20	-0.049932	0.093045	-----	-----	-5.622371	106.404449	380
08:44:59.581	08:44:58.125	1	17500	TRUE	SSR	-21.07	-166.93	-0.050016	0.093779	34.127	331.363220	-5.617810	106.402130	383
08:45:02.368	08:45:00.365	0	17618	TRUE	EXTRAP	-21.18	-166.73	-0.050016	0.093779	-----	-----	-5.614357	106.400230	383
08:45:05.781	08:45:04.457	1	17700	TRUE	SSR	-21.44	-166.32	-0.051034	0.096736	34.855	331.304291	-5.607403	106.395782	394
08:45:07.468	08:45:05.366	0	17793	TRUE	EXTRAP	-21.45	-166.23	-0.051034	0.096736	-----	-----	-5.606004	106.395706	394
08:45:12.071	08:45:10.784	1	18000	TRUE	SSR	-21.79	-165.70	-0.051981	0.098625	35.568	331.291962	-5.597016	106.389969	401
08:45:12.469	08:45:10.368	0	17992	TRUE	EXTRAP	-21.72	-165.74	-0.051981	0.098625	-----	-----	-5.597625	106.391129	401
08:45:17.467	08:45:15.369	0	18195	TRUE	EXTRAP	-21.98	-165.25	-0.051981	0.098625	-----	-----	-5.589276	106.386734	401
08:45:18.270	08:45:17.079	1	18300	TRUE	SSR	-22.16	-165.09	-0.053230	0.100094	36.296	331.236511	-5.586631	106.383636	408
08:45:22.468	08:45:20.370	0	18423	TRUE	EXTRAP	-22.27	-164.74	-0.053230	0.100094	-----	-----	-5.580743	106.381866	408
08:45:24.672	08:45:23.401	1	18600	TRUE	SSR	-22.54	-164.51	-0.054285	0.098577	36.997	331.160614	-5.576770	106.377312	405
08:45:27.398	08:45:25.371	0	18666	TRUE	EXTRAP	-22.56	-164.27	-0.054285	0.098577	-----	-----	-5.572676	106.376907	405
08:45:31.101	08:45:29.727	1	18800	TRUE	SSR	-22.91	-163.92	-0.055299	0.096114	37.697	331.087006	-5.566889	106.370964	399

08:45:32.398	08:45:30.373	0	18858	TRUE	EXTRAP	-22.86	-163.80	-0.055299	0.096114	-----	-----	-5.564865	106.371857	399
08:45:37.298	08:45:36.061	1	19100	TRUE	SSR	-23.29	-163.34	-0.056311	0.093831	38.398	331.016693	-5.557029	106.364639	394
08:45:37.500	08:45:35.405	0	19070	TRUE	EXTRAP	-23.17	-163.35	-0.056311	0.093831	-----	-----	-5.557131	106.366730	394
08:45:42.507	08:45:40.407	0	19280	TRUE	EXTRAP	-23.45	-162.88	-0.056311	0.093831	-----	-----	-5.549186	106.361977	394
08:45:43.816	08:45:42.369	1	19400	TRUE	SSR	-23.66	-162.76	-0.057360	0.092506	39.099	330.948273	-5.547169	106.358307	392
08:45:47.507	08:45:45.408	0	19516	TRUE	EXTRAP	-23.76	-162.43	-0.057360	0.092506	-----	-----	-5.541638	106.356735	392
08:45:50.111	08:45:48.690	1	19600	TRUE	SSR	-24.01	-162.14	-0.058149	0.093086	39.812	330.943970	-5.536761	106.352486	395
08:45:52.509	08:45:50.419	0	19700	TRUE	EXTRAP	-24.06	-161.97	-0.058149	0.093086	-----	-----	-5.533766	106.351593	395
08:45:56.406	08:45:55.008	1	19900	TRUE	SSR	-24.35	-161.53	-0.058562	0.094217	40.525	330.939423	-5.526375	106.346672	399
08:45:57.506	08:45:55.421	0	19910	TRUE	EXTRAP	-24.36	-161.49	-0.058562	0.094217	-----	-----	-5.525738	106.346565	399
08:46:02.507	08:46:00.423	0	20118	TRUE	EXTRAP	-24.65	-161.02	-0.058562	0.094217	-----	-----	-5.517760	106.341621	399
08:46:02.809	08:46:01.348	1	20100	TRUE	SSR	-24.73	-160.92	-0.059011	0.095839	41.254	330.896973	-5.515970	106.340332	405
08:46:07.508	08:46:05.424	0	20283	TRUE	EXTRAP	-24.96	-160.53	-0.059011	0.095839	-----	-----	-5.509457	106.336540	405
08:46:09.115	08:46:07.658	1	20300	TRUE	SSR	-25.08	-160.30	-0.058961	0.096504	41.967	330.893799	-5.505562	106.334511	407
08:46:12.507	08:46:10.426	0	20428	TRUE	EXTRAP	-25.25	-160.04	-0.058961	0.096504	-----	-----	-5.501197	106.331604	407
08:46:15.406	08:46:13.980	1	20600	TRUE	SSR	-25.42	-159.69	-0.058521	0.096366	42.680	330.890198	-5.495175	106.328697	406
08:46:17.505	08:46:15.427	0	20630	TRUE	EXTRAP	-25.53	-159.56	-0.058521	0.096366	-----	-----	-5.493005	106.326790	406
08:46:21.809	08:46:20.316	1	20800	TRUE	SSR	-25.76	-159.07	-0.057869	0.095994	43.393	330.886566	-5.484770	106.322868	404
08:46:22.507	08:46:20.429	0	20810	TRUE	EXTRAP	-25.81	-159.08	-0.057869	0.095994	-----	-----	-5.484835	106.322083	404
08:46:27.501	08:46:25.431	0	20992	TRUE	EXTRAP	-26.10	-158.60	-0.057869	0.095994	-----	-----	-5.476707	106.317200	404
08:46:27.799	08:46:26.644	1	21000	TRUE	SSR	-26.23	-158.49	-0.058672	0.096879	44.139	330.721893	-5.474898	106.314980	408
08:46:32.494	08:46:30.432	0	21148	TRUE	EXTRAP	-26.41	-158.11	-0.058672	0.096879	-----	-----	-5.468465	106.311996	408
08:46:34.296	08:46:32.957	1	21200	TRUE	SSR	-26.61	-157.88	-0.059326	0.097510	44.868	330.686249	-5.464495	106.308632	411
08:46:37.495	08:46:35.424	0	21297	TRUE	EXTRAP	-26.72	-157.62	-0.059326	0.097510	-----	-----	-5.460222	106.306808	411
08:46:40.700	08:46:39.297	1	21500	TRUE	SSR	-26.95	-157.23	-0.059524	0.098517	45.608	330.705353	-5.453584	106.302818	414
08:46:42.495	08:46:40.426	0	21504	TRUE	EXTRAP	-27.02	-157.13	-0.059524	0.098517	-----	-----	-5.451804	106.301758	414
08:46:46.995	08:46:45.623	1	21700	TRUE	SSR	-27.36	-156.62	-0.059993	0.099173	46.352	330.637329	-5.443185	106.295952	417
08:46:47.494	08:46:45.427	0	21691	TRUE	EXTRAP	-27.32	-156.63	-0.059993	0.099173	-----	-----	-5.443411	106.296585	417
08:46:52.493	08:46:50.429	0	21876	TRUE	EXTRAP	-27.62	-156.13	-0.059993	0.099173	-----	-----	-5.435014	106.291519	417
08:46:53.295	08:46:51.933	1	21900	TRUE	SSR	-27.74	-155.97	-0.060420	0.100525	47.108	330.622864	-5.432258	106.289604	422
08:46:57.493	08:46:55.431	0	22039	TRUE	EXTRAP	-27.93	-155.62	-0.060420	0.100525	-----	-----	-5.426362	106.286324	422
08:46:59.698	08:46:58.256	1	22100	TRUE	SSR	-28.14	-155.36	-0.060875	0.100459	47.851	330.558716	-5.421858	106.282745	423
08:47:02.495	08:47:00.433	0	22191	TRUE	EXTRAP	-28.24	-155.12	-0.060875	0.100459	-----	-----	-5.417913	106.281036	423
08:47:06.098	08:47:04.532	1	22400	TRUE	SSR	-28.58	-154.74	-0.061862	0.100649	48.610	330.463593	-5.411481	106.275368	425
08:47:07.494	08:47:05.435	0	22398	TRUE	EXTRAP	-28.57	-154.63	-0.061862	0.100649	-----	-----	-5.409482	106.275528	425
08:47:12.296	08:47:10.892	1	22600	TRUE	SSR	-28.96	-154.13	-0.062151	0.098684	49.338	330.435181	-5.401078	106.269028	420
08:47:12.494	08:47:10.437	0	22584	TRUE	EXTRAP	-28.89	-154.14	-0.062151	0.098684	-----	-----	-5.401296	106.270134	420
08:47:17.499	08:47:15.438	0	22770	TRUE	EXTRAP	-29.20	-153.65	-0.062151	0.098684	-----	-----	-5.392941	106.264893	420
08:47:18.697	08:47:17.200	1	22800	TRUE	SSR	-29.33	-153.48	-0.062383	0.098650	50.094	330.425049	-5.390153	106.262688	420
08:47:22.494	08:47:20.441	0	22931	TRUE	EXTRAP	-29.52	-153.16	-0.062383	0.098650	-----	-----	-5.384615	106.259544	420
08:47:24.895	08:47:23.504	1	23000	TRUE	SSR	-29.71	-152.84	-0.062484	0.099566	50.850	330.415100	-5.379226	106.256340	423
08:47:27.492	08:47:25.443	0	23083	TRUE	EXTRAP	-29.83	-152.65	-0.062484	0.099566	-----	-----	-5.376093	106.254272	423
08:47:31.295	08:47:29.809	1	23100	TRUE	SSR	-30.05	-152.19	-0.061980	0.099945	51.591	330.435791	-5.368278	106.250504	423

08:47:32.493	08:47:30.444	0	23177	TRUE	EXTRAP	-30.13	-152.15	-0.061980	0.099945	-----	-----	-5.367540	106.249199	423
08:47:36.195	08:47:35.168	4	23300	TRUE	SSR	-30.15	-151.84	-0.061577	0.098319	173.945	147.919189	-5.362255	106.248825	418
08:47:37.493	08:47:35.446	0	23307	TRUE	EXTRAP	-30.44	-151.66	-0.061577	0.098319	-----	-----	-5.359296	106.244072	418
08:47:37.598	08:47:36.140	1	23300	TRUE	SSR	-30.43	-151.55	-0.061225	0.099864	52.346	330.425995	-5.357353	106.244164	422
08:47:42.492	08:47:40.448	0	23422	TRUE	EXTRAP	-30.73	-151.15	-0.061225	0.099864	-----	-----	-5.350567	106.239082	422
08:47:44.094	08:47:42.460	1	23500	TRUE	SSR	-30.81	-150.90	-0.060860	0.101250	53.102	330.416290	-5.346428	106.237816	425
08:47:44.293	08:47:43.205	4	23500	TRUE	SSR	-30.28	-150.72	-0.060611	0.100583	172.924	147.757263	-5.343407	106.246628	423
08:47:47.492	08:47:45.450	0	23562	TRUE	EXTRAP	-31.02	-150.63	-0.060611	0.100583	-----	-----	-5.341875	106.234192	423
08:47:50.293	08:47:48.760	1	23700	TRUE	SSR	-31.31	-150.29	-0.061871	0.103292	53.891	330.274933	-5.336039	106.229393	433
08:47:52.395	08:47:51.273	4	23800	TRUE	SSR	-30.78	-149.98	-0.061496	0.102069	172.023	147.765579	-5.330851	106.238197	429
08:47:52.491	08:47:50.451	0	23738	TRUE	EXTRAP	-31.34	-150.12	-0.061496	0.102069	-----	-----	-5.333113	106.228760	429
08:47:56.493	08:47:55.069	1	23900	TRUE	SSR	-31.68	-149.64	-0.062261	0.103444	54.647	330.267609	-5.325114	106.223045	435
08:47:57.492	08:47:55.453	0	23904	TRUE	EXTRAP	-31.67	-149.60	-0.062261	0.103444	-----	-----	-5.324327	106.223328	435
08:48:00.095	08:47:59.266	4	24000	TRUE	SSR	-31.78	-149.37	-0.061999	0.102358	170.963	147.938278	-5.320431	106.221436	431
08:48:02.494	08:48:00.455	0	24054	TRUE	EXTRAP	-31.97	-149.09	-0.061999	0.102358	-----	-----	-5.315724	106.218140	431
08:48:02.697	08:48:01.377	1	24100	TRUE	SSR	-32.09	-149.00	-0.062785	0.103544	55.418	330.232452	-5.314192	106.216187	436
08:48:07.491	08:48:05.458	0	24219	TRUE	EXTRAP	-32.30	-148.57	-0.062785	0.103544	-----	-----	-5.306873	106.212601	436
08:48:08.194	08:48:07.341	4	24300	TRUE	SSR	-31.66	-148.13	-0.062415	0.102420	169.970	147.679764	-5.299463	106.223396	432
08:48:09.097	08:48:07.688	1	24300	TRUE	SSR	-32.43	-148.29	-0.062751	0.105412	56.214	330.284851	-5.302217	106.210350	442
08:48:12.490	08:48:10.459	0	24392	TRUE	EXTRAP	-32.61	-148.02	-0.062751	0.105412	-----	-----	-5.297717	106.207382	442
08:48:15.393	08:48:14.020	1	24600	TRUE	SSR	-32.78	-147.61	-0.062230	0.106075	56.981	330.320862	-5.290784	106.204536	443
08:48:17.393	08:48:15.341	4	24601	TRUE	EXTRAP	-32.90	-147.50	-0.062230	0.106075	168.765	147.923782	-5.288821	106.202438	443
08:48:17.492	08:48:15.461	0	24605	TRUE	EXTRAP	-32.91	-147.49	-0.062230	0.106075	-----	-----	-5.288606	106.202309	443
08:48:21.796	08:48:20.336	1	24800	TRUE	SSR	-33.16	-146.94	-0.061631	0.106432	57.765	330.328308	-5.279336	106.198189	443
08:48:22.490	08:48:20.463	0	24801	TRUE	EXTRAP	-33.21	-146.95	-0.061631	0.106432	-----	-----	-5.279494	106.197304	443
08:48:24.491	08:48:23.400	4	24900	TRUE	SSR	-33.03	-146.77	-0.061248	0.105037	168.075	147.827011	-5.276467	106.200287	438
08:48:27.490	08:48:25.465	0	24987	TRUE	EXTRAP	-33.51	-146.43	-0.061248	0.105037	-----	-----	-5.270700	106.192200	438
08:48:27.993	08:48:26.641	1	25000	TRUE	SSR	-33.69	-146.36	-0.062321	0.104560	58.542	330.157715	-5.269475	106.189255	438
08:48:32.490	08:48:30.468	0	25159	TRUE	EXTRAP	-33.85	-145.92	-0.062321	0.104560	-----	-----	-5.262035	106.186554	438
08:48:33.491	08:48:31.400	4	25193	TRUE	EXTRAP	-33.90	-145.82	-0.062321	0.104560	166.795	147.906555	-5.260384	106.185577	438
08:48:34.492	08:48:32.949	1	25200	TRUE	SSR	-34.03	-145.68	-0.062590	0.103997	59.310	330.193665	-5.258024	106.183426	437
08:48:37.490	08:48:35.470	0	25310	TRUE	EXTRAP	-34.17	-145.40	-0.062590	0.103997	-----	-----	-5.253326	106.181168	437
08:48:40.592	08:48:39.242	1	25400	TRUE	SSR	-34.41	-145.00	-0.062725	0.104522	60.093	330.202789	-5.246576	106.177078	439
08:48:40.693	08:48:39.480	4	25400	TRUE	SSR	-34.52	-145.41	-0.062486	0.103523	166.114	148.014206	-5.253489	106.175095	435
08:48:42.492	08:48:40.471	0	25447	TRUE	EXTRAP	-34.48	-144.89	-0.062486	0.103523	-----	-----	-5.244588	106.175911	435
08:48:46.894	08:48:45.555	1	25700	TRUE	SSR	-34.75	-144.33	-0.062127	0.104333	60.861	330.237122	-5.235145	106.171265	437
08:48:47.490	08:48:45.473	0	25641	TRUE	EXTRAP	-34.78	-144.36	-0.062127	0.104333	-----	-----	-5.235647	106.170807	437
08:48:48.392	08:48:47.493	4	25700	TRUE	SSR	-35.15	-144.55	-0.061949	0.103430	165.042	148.038254	-5.238846	106.164566	434
08:48:52.491	08:48:50.477	0	25814	TRUE	EXTRAP	-35.09	-143.85	-0.061949	0.103430	-----	-----	-5.226972	106.165604	434
08:48:53.093	08:48:51.870	1	25900	TRUE	SSR	-35.19	-143.68	-0.062293	0.104854	61.647	330.180695	-5.224226	106.163887	439
08:48:56.493	08:48:55.539	4	26000	TRUE	SSR	-35.40	-143.68	-0.061924	0.103220	164.166	147.951385	-5.224179	106.160309	433
08:48:57.490	08:48:55.479	0	26006	TRUE	EXTRAP	-35.40	-143.32	-0.061924	0.103220	-----	-----	-5.218140	106.160355	433
08:48:59.493	08:48:58.177	1	26200	TRUE	SSR	-35.57	-143.01	-0.062173	0.105347	62.430	330.189484	-5.212798	106.157547	440

21

08:49:02.490	08:49:00.480	0	26235	TRUE	EXTRAP	-35.71	-142.78	-0.062173	0.105347	-----	-----	-5.209002	106.155106	440
08:49:04.592	08:49:03.613	4	26400	TRUE	SSR	-35.04	-142.32	-0.061592	0.103416	163.201	147.584549	-5.201089	106.166420	433
08:49:05.894	08:49:04.508	1	26400	TRUE	SSR	-35.97	-142.36	-0.061956	0.104613	63.201	330.159729	-5.201878	106.150688	438
08:49:07.490	08:49:05.483	0	26454	TRUE	EXTRAP	-36.02	-142.27	-0.061956	0.104613	-----	-----	-5.200209	106.149925	438
08:49:12.093	08:49:10.785	1	26600	TRUE	SSR	-36.50	-141.75	-0.063841	0.106116	64.007	330.019287	-5.191493	106.141747	446
08:49:12.491	08:49:10.485	0	26633	TRUE	EXTRAP	-36.37	-141.74	-0.063841	0.106116	-----	-----	-5.191332	106.144058	446
08:49:12.691	08:49:11.597	4	26700	TRUE	SSR	-35.42	-141.33	-0.063459	0.105198	162.155	147.508011	-5.184337	106.160057	442
08:49:17.491	08:49:15.487	0	26835	TRUE	EXTRAP	-36.68	-141.22	-0.063459	0.105198	-----	-----	-5.182503	106.138802	442
08:49:18.494	08:49:17.105	1	26800	TRUE	SSR	-36.97	-141.14	-0.065479	0.104807	64.782	329.930420	-5.181101	106.133850	445
08:49:20.793	08:49:19.651	4	26900	TRUE	SSR	-36.17	-140.59	-0.065099	0.103748	161.120	147.590668	-5.171805	106.147461	441
08:49:22.588	08:49:20.490	0	26953	TRUE	EXTRAP	-37.04	-140.72	-0.065099	0.103748	-----	-----	-5.174048	106.132675	441
08:49:25.189	08:49:23.105	1	27034	TRUE	EXTRAP	-37.21	-140.45	-0.065099	0.103748	65.507	330.051544	-5.169453	106.129807	441
08:49:27.588	08:49:25.491	0	27109	TRUE	EXTRAP	-37.37	-140.20	-0.065099	0.103748	-----	-----	-5.165261	106.127190	441
08:49:28.391	08:49:27.671	4	27100	TRUE	SSR	-36.05	-139.35	-0.064400	0.101897	160.132	147.314117	-5.150847	106.149429	434
08:49:31.094	08:49:29.731	1	27200	TRUE	SSR	-37.82	-139.85	-0.066784	0.102526	66.340	329.856049	-5.159265	106.119614	440
08:49:32.588	08:49:30.494	0	27215	TRUE	EXTRAP	-37.73	-139.71	-0.066784	0.102526	-----	-----	-5.156961	106.120987	440
08:49:36.590	08:49:35.707	4	27300	TRUE	SSR	-37.16	-138.98	-0.066174	0.100648	159.212	147.582840	-5.144617	106.130608	434
08:49:37.494	08:49:36.031	1	27300	TRUE	SSR	-38.25	-139.20	-0.068154	0.101951	67.127	329.808258	-5.148329	106.112213	441
08:49:37.589	08:49:35.495	0	27313	TRUE	EXTRAP	-38.10	-139.22	-0.068154	0.101951	-----	-----	-5.148557	106.114792	441
08:49:42.589	08:49:40.498	0	27425	TRUE	EXTRAP	-38.44	-138.71	-0.068154	0.101951	-----	-----	-5.139921	106.109039	441
08:49:43.710	08:49:42.341	1	27400	TRUE	SSR	-38.63	-138.53	-0.068980	0.103022	67.910	329.820831	-5.136865	106.105865	446
08:49:44.710	08:49:43.741	4	27400	TRUE	SSR	-38.16	-138.49	-0.068561	0.101650	158.257	147.792236	-5.136298	106.113876	441
08:49:47.509	08:49:45.501	0	27468	TRUE	EXTRAP	-38.80	-138.20	-0.068561	0.101650	-----	-----	-5.131358	106.103081	441
08:49:50.011	08:49:48.650	1	27500	TRUE	SSR	-39.07	-137.88	-0.069358	0.103073	68.696	329.774750	-5.125929	106.098473	447
08:49:52.510	08:49:50.503	0	27537	TRUE	EXTRAP	-39.16	-137.68	-0.069358	0.103073	-----	-----	-5.122570	106.097015	447
08:49:53.810	08:49:51.741	4	27555	TRUE	EXTRAP	-39.24	-137.55	-0.069358	0.103073	156.871	147.945587	-5.120409	106.095573	447
08:49:56.211	08:49:54.961	1	27600	TRUE	SSR	-39.29	-137.11	-0.067820	0.105349	69.484	329.937531	-5.112879	106.094711	451
08:49:57.608	08:49:55.527	0	27609	TRUE	EXTRAP	-39.46	-137.13	-0.067820	0.105349	-----	-----	-5.113205	106.091850	451
08:50:00.911	08:49:59.797	4	27700	TRUE	SSR	-38.79	-136.51	-0.067195	0.103359	156.231	147.597260	-5.102818	106.103256	444
08:50:02.609	08:50:01.291	1	27800	TRUE	SSR	-39.73	-136.46	-0.066192	0.104840	70.270	329.891296	-5.101963	106.087334	446
08:50:02.609	08:50:00.529	0	27726	TRUE	EXTRAP	-39.77	-136.60	-0.066192	0.104840	-----	-----	-5.104195	106.086723	446
08:50:07.609	08:50:05.531	0	27827	TRUE	EXTRAP	-40.10	-136.07	-0.066192	0.104840	-----	-----	-5.095315	106.081146	446
08:50:09.014	08:50:07.573	1	27900	TRUE	SSR	-40.17	-135.82	-0.065603	0.105512	71.057	329.846039	-5.091028	106.079941	447
08:50:09.014	08:50:07.831	4	27900	TRUE	SSR	-39.78	-135.90	-0.065300	0.104574	155.170	147.786316	-5.092392	106.086510	444
08:50:12.607	08:50:10.534	0	27953	TRUE	EXTRAP	-40.41	-135.54	-0.065300	0.104574	-----	-----	-5.086374	106.075935	444
08:50:15.210	08:50:13.914	1	28000	TRUE	SSR	-40.64	-135.17	-0.065574	0.105837	71.859	329.780121	-5.080098	106.072037	448
08:50:17.609	08:50:15.536	0	28050	TRUE	EXTRAP	-40.74	-135.01	-0.065574	0.105837	-----	-----	-5.077308	106.070358	448
08:50:17.908	08:50:15.831	4	28057	TRUE	EXTRAP	-40.76	-134.98	-0.065574	0.105837	153.857	147.911224	-5.076778	106.070038	448
08:50:21.611	08:50:20.208	1	28100	TRUE	SSR	-41.11	-134.53	-0.066352	0.106630	72.662	329.715607	-5.069168	106.064125	452
08:50:22.607	08:50:20.538	0	28130	TRUE	EXTRAP	-41.08	-134.48	-0.066352	0.106630	-----	-----	-5.068303	106.064560	452
08:50:24.708	08:50:23.887	4	28200	TRUE	SSR	-40.78	-134.17	-0.065911	0.105070	153.156	147.755920	-5.063120	106.069649	447
08:50:27.588	08:50:25.540	0	28225	TRUE	EXTRAP	-41.41	-133.96	-0.065911	0.105070	-----	-----	-5.059503	106.059090	447
08:50:27.889	08:50:26.521	1	28200	TRUE	SSR	-41.67	-133.91	-0.068187	0.106535	73.484	329.577118	-5.058769	106.054657	455

08:50:32.596	08:50:30.543	0	28293	TRUE	EXTRAP	-41.79	-133.43	-0.068187	0.106535	-----	-----	-5.050539	106.052567	455
08:50:32.899	08:50:31.929	4	28400	TRUE	SSR	-40.79	-132.93	-0.067630	0.104968	152.098	147.505676	-5.042170	106.069534	450
08:50:34.596	08:50:32.521	1	28365	TRUE	EXTRAP	-41.92	-133.23	-0.067630	0.104968	74.210	329.679810	-5.047170	106.050453	450
08:50:37.596	08:50:35.525	0	28429	TRUE	EXTRAP	-42.12	-132.91	-0.067630	0.104968	-----	-----	-5.041830	106.047028	450
08:50:40.598	08:50:39.152	1	28500	TRUE	SSR	-42.64	-132.59	-0.071321	0.108197	75.132	329.448059	-5.036406	106.038322	467
08:50:41.995	08:50:39.929	4	28519	TRUE	EXTRAP	-42.50	-132.44	-0.071321	0.108197	150.747	147.958282	-5.033745	106.040596	467
08:50:42.598	08:50:40.538	0	28532	TRUE	EXTRAP	-42.55	-132.37	-0.071321	0.108197	-----	-----	-5.032629	106.039864	467
08:50:46.804	08:50:45.458	1	28800	TRUE	SSR	-43.07	-131.92	-0.073283	0.107877	75.946	329.422150	-5.024985	106.030960	469
08:50:47.596	08:50:45.541	0	28724	TRUE	EXTRAP	-42.95	-131.85	-0.073283	0.107877	-----	-----	-5.023770	106.033043	469
08:50:49.996	08:50:47.987	4	28798	TRUE	EXTRAP	-43.13	-131.58	-0.073283	0.107877	149.682	147.988037	-5.019300	106.030014	469
08:50:52.597	08:50:50.544	0	28876	TRUE	EXTRAP	-43.32	-131.31	-0.073283	0.107877	-----	-----	-5.014630	106.026855	469
08:50:53.200	08:50:51.785	1	29100	TRUE	SSR	-43.48	-131.24	-0.073777	0.105662	76.744	329.416931	-5.013559	106.024109	464
08:50:57.197	08:50:56.031	4	29400	TRUE	SSR	-43.03	-130.71	-0.073264	0.103964	148.995	147.773727	-5.004512	106.031738	458
08:50:57.596	08:50:55.547	0	29259	TRUE	EXTRAP	-43.70	-130.81	-0.073264	0.103964	-----	-----	-5.006271	106.020485	458
08:50:59.396	08:50:58.083	1	29600	TRUE	SSR	-43.98	-130.63	-0.073985	0.101614	77.536	329.328461	-5.003226	106.015717	453
08:51:02.595	08:51:00.549	0	29622	TRUE	EXTRAP	-44.09	-130.33	-0.073985	0.101614	-----	-----	-4.998051	106.013901	453
08:51:04.897	08:51:04.063	4	29900	TRUE	SSR	-43.78	-129.97	-0.073501	0.099850	147.962	147.865631	-4.991937	106.019119	446
08:51:05.800	08:51:04.390	1	30000	TRUE	SSR	-44.48	-130.02	-0.074522	0.098645	78.328	329.242279	-4.992875	106.007332	445
08:51:07.595	08:51:05.552	0	30006	TRUE	EXTRAP	-44.48	-129.86	-0.074522	0.098645	-----	-----	-4.990071	106.007324	445
08:51:11.997	08:51:10.703	1	30300	TRUE	SSR	-44.91	-129.35	-0.075253	0.100030	79.142	329.219452	-4.981454	105.999962	451
08:51:12.596	08:51:10.555	0	30328	TRUE	EXTRAP	-44.86	-129.36	-0.075253	0.100030	-----	-----	-4.981582	106.000809	451
08:51:12.998	08:51:12.125	4	30400	TRUE	SSR	-44.65	-129.35	-0.074945	0.098892	146.969	148.025833	-4.981461	106.004433	447
08:51:17.595	08:51:15.558	0	30643	TRUE	EXTRAP	-45.23	-128.87	-0.074945	0.098892	-----	-----	-4.973311	105.994553	447
08:51:18.409	08:51:17.013	1	30600	TRUE	SSR	-45.35	-128.70	-0.075183	0.100151	79.929	329.185883	-4.970556	105.992599	451
08:51:21.108	08:51:20.147	4	30700	TRUE	SSR	-45.15	-128.61	-0.074701	0.098255	146.068	148.037415	-4.968895	105.996010	444
08:51:22.605	08:51:20.562	0	30818	TRUE	EXTRAP	-45.61	-128.37	-0.074701	0.098255	-----	-----	-4.964923	105.988289	444
08:51:24.812	08:51:23.336	1	30800	TRUE	SSR	-45.76	-128.03	-0.074462	0.100877	80.728	329.183105	-4.959114	105.985733	451
08:51:27.584	08:51:25.564	0	30986	TRUE	EXTRAP	-45.97	-127.85	-0.074462	0.100877	-----	-----	-4.956036	105.982185	451
08:51:29.187	08:51:28.120	4	31100	TRUE	SSR	-45.65	-127.74	-0.073909	0.098697	145.061	148.023026	-4.954222	105.987564	444
08:51:30.986	08:51:29.640	1	31200	TRUE	SSR	-46.19	-127.39	-0.073472	0.100882	81.515	329.150604	-4.948233	105.978386	449
08:51:32.584	08:51:30.578	0	31212	TRUE	EXTRAP	-46.32	-127.34	-0.073472	0.100882	-----	-----	-4.947387	105.976303	449
08:51:37.288	08:51:35.953	1	31500	TRUE	SSR	-46.63	-126.74	-0.072739	0.101746	82.303	329.118683	-4.937335	105.971024	450
08:51:37.288	08:51:36.183	4	31500	TRUE	SSR	-46.40	-127.00	-0.072423	0.100581	144.028	148.119125	-4.941657	105.974960	446
08:51:37.587	08:51:35.559	0	31457	TRUE	EXTRAP	-46.66	-126.83	-0.072423	0.100581	-----	-----	-4.938784	105.970512	446
08:51:42.583	08:51:40.562	0	31694	TRUE	EXTRAP	-47.02	-126.33	-0.072423	0.100581	-----	-----	-4.930261	105.964401	446
08:51:43.487	08:51:42.242	1	31800	TRUE	SSR	-47.01	-126.10	-0.070947	0.100316	83.059	329.124298	-4.926431	105.964699	442
08:51:44.986	08:51:44.188	4	31900	TRUE	SSR	-46.28	-125.88	-0.070374	0.098565	143.139	147.839706	-4.922762	105.976921	436
08:51:47.583	08:51:45.565	0	31956	TRUE	EXTRAP	-47.34	-125.83	-0.070374	0.098565	-----	-----	-4.921850	105.959091	436
08:51:49.888	08:51:48.561	1	32100	TRUE	SSR	-47.38	-125.49	-0.068420	0.096971	83.787	329.119141	-4.916051	105.958382	427
08:51:52.586	08:51:50.568	0	32203	TRUE	EXTRAP	-47.65	-125.34	-0.068420	0.096971	-----	-----	-4.913567	105.953903	427
08:51:53.086	08:51:52.249	4	32200	TRUE	SSR	-46.66	-125.02	-0.067739	0.094863	142.198	147.780960	-4.908094	105.970573	420
08:51:56.289	08:51:54.867	1	32300	TRUE	SSR	-47.79	-124.87	-0.066337	0.095287	84.532	329.096008	-4.905656	105.951538	418
08:51:57.583	08:51:55.570	0	32373	TRUE	EXTRAP	-47.94	-124.86	-0.066337	0.095287	-----	-----	-4.905461	105.948921	418

0-1

61

08:52:01.185	08:52:00.262	4	32500	TRUE	SSR	-47.65	-124.52	-0.065723	0.092924	141.245	148.017090	-4.899738	105.953819	410
08:52:02.487	08:52:01.180	1	32600	TRUE	SSR	-48.16	-124.26	-0.064413	0.094231	85.261	329.091125	-4.895277	105.945213	411
08:52:02.584	08:52:00.572	0	32558	TRUE	EXTRAP	-48.23	-124.38	-0.064413	0.094231	-----	-----	-4.897335	105.944000	411
08:52:07.582	08:52:05.575	0	32752	TRUE	EXTRAP	-48.56	-123.91	-0.064413	0.094231	-----	-----	-4.889350	105.938568	411
08:52:09.182	08:52:07.180	1	32814	TRUE	EXTRAP	-48.66	-123.76	-0.064413	0.094231	85.956	328.976471	-4.886788	105.936829	411
08:52:10.283	08:52:08.262	4	32856	TRUE	EXTRAP	-48.73	-123.66	-0.064413	0.094231	139.929	148.204498	-4.885061	105.935654	411
08:52:12.582	08:52:10.578	0	32946	TRUE	EXTRAP	-48.88	-123.44	-0.064413	0.094231	-----	-----	-4.881365	105.933144	411
08:52:15.483	08:52:13.480	1	33058	TRUE	EXTRAP	-49.06	-123.17	-0.064413	0.094231	86.683	328.948425	-4.876734	105.929993	411
08:52:17.583	08:52:16.381	4	33000	TRUE	SSR	-48.77	-123.16	-0.063316	0.089216	139.484	148.111710	-4.876711	105.934914	394
08:52:17.684	08:52:15.581	0	33032	TRUE	EXTRAP	-49.18	-123.02	-0.063316	0.089216	-----	-----	-4.874287	105.927979	394
08:52:21.604	08:52:20.106	1	33100	TRUE	SSR	-49.47	-122.42	-0.064645	0.100008	87.542	328.971497	-4.864083	105.923111	429
08:52:22.682	08:52:20.583	0	33142	TRUE	EXTRAP	-49.51	-122.42	-0.064645	0.100008	-----	-----	-4.864175	105.922402	429
08:52:25.497	08:52:24.354	4	33200	TRUE	SSR	-49.15	-122.17	-0.064027	0.097905	138.436	148.026123	-4.859962	105.928551	421
08:52:27.686	08:52:26.417	1	33200	TRUE	SSR	-49.70	-121.80	-0.061843	0.097096	88.192	329.055267	-4.853653	105.919373	414
08:52:27.686	08:52:25.586	0	33227	TRUE	EXTRAP	-49.77	-121.94	-0.061843	0.097096	-----	-----	-4.855922	105.918045	414
08:52:32.683	08:52:30.588	0	33329	TRUE	EXTRAP	-50.08	-121.45	-0.061843	0.097096	-----	-----	-4.847696	105.912834	414
08:52:33.686	08:52:32.423	4	33300	TRUE	SSR	-49.40	-121.43	-0.060978	0.093938	137.667	147.949829	-4.847405	105.924316	403
08:52:34.083	08:52:32.747	1	33300	TRUE	SSR	-50.04	-121.22	-0.059127	0.092766	88.878	329.058319	-4.843758	105.913567	396
08:52:37.683	08:52:35.591	0	33371	TRUE	EXTRAP	-50.33	-121.00	-0.059127	0.092766	-----	-----	-4.840050	105.908737	396
08:52:40.490	08:52:39.031	1	33400	TRUE	SSR	-50.39	-120.60	-0.057756	0.093466	89.591	329.071075	-4.833339	105.907745	396
08:52:41.284	08:52:40.457	4	33400	TRUE	SSR	-49.78	-120.44	-0.057317	0.092235	136.620	147.861740	-4.830670	105.917969	391
08:52:42.683	08:52:40.593	0	33422	TRUE	EXTRAP	-50.58	-120.52	-0.057317	0.092235	-----	-----	-4.831982	105.904526	391
08:52:46.984	08:52:45.348	1	33400	TRUE	SSR	-50.79	-120.05	-0.056828	0.092789	90.282	329.029602	-4.823957	105.900887	392
08:52:47.683	08:52:45.596	0	33449	TRUE	EXTRAP	-50.85	-120.05	-0.056828	0.092789	-----	-----	-4.823999	105.899925	392
08:52:49.485	08:52:48.477	4	33500	TRUE	SSR	-50.89	-120.20	-0.056394	0.090770	135.814	148.208435	-4.826529	105.899185	385
08:52:52.684	08:52:50.598	0	33502	TRUE	EXTRAP	-51.13	-119.61	-0.056394	0.090770	-----	-----	-4.816469	105.895241	385
08:52:53.086	08:52:51.675	1	33500	TRUE	SSR	-51.20	-119.47	-0.056867	0.093543	91.000	328.998688	-4.814068	105.894035	394
08:52:57.583	08:52:56.485	4	33500	TRUE	SSR	-50.41	-118.72	-0.056310	0.092094	134.805	147.693008	-4.801391	105.907394	389
08:52:57.683	08:52:55.600	0	33523	TRUE	EXTRAP	-51.41	-119.13	-0.056310	0.092094	-----	-----	-4.808334	105.890533	389
08:52:59.483	08:52:57.993	1	33597	TRUE	SSR	-51.64	-118.91	-0.057516	0.094177	91.707	328.941620	-4.804697	105.886665	397
08:53:02.681	08:53:00.603	0	33566	TRUE	EXTRAP	-51.72	-118.65	-0.057516	0.094177	-----	-----	-4.800256	105.885338	397
08:53:05.688	08:53:04.291	1	33644	TRUE	SSR	-52.04	-118.30	-0.059120	0.097513	92.452	328.921875	-4.794277	105.879814	411
08:53:05.688	08:53:04.525	4	33600	TRUE	SSR	-51.40	-118.22	-0.058827	0.096712	133.851	147.941528	-4.793057	105.890671	408
08:53:07.692	08:53:05.606	0	33606	TRUE	EXTRAP	-52.03	-118.16	-0.058827	0.096712	-----	-----	-4.791968	105.880043	408
08:53:12.096	08:53:10.644	1	33700	TRUE	SSR	-52.45	-117.68	-0.060433	0.099429	93.196	328.902222	-4.783865	105.872955	419
08:53:12.691	08:53:10.609	0	33671	TRUE	EXTRAP	-52.35	-117.66	-0.060433	0.099429	-----	-----	-4.783536	105.874565	419
08:53:13.795	08:53:12.568	4	33700	TRUE	SSR	-51.90	-117.36	-0.060138	0.098639	132.844	147.925064	-4.778419	105.882256	416
08:53:17.691	08:53:15.612	0	33724	TRUE	EXTRAP	-52.65	-117.17	-0.060138	0.098639	-----	-----	-4.775236	105.869576	416
08:53:18.293	08:53:16.953	1	33700	TRUE	SSR	-52.86	-117.07	-0.061631	0.100405	93.941	328.882965	-4.773436	105.866089	424
08:53:21.392	08:53:20.615	4	33800	TRUE	SSR	-52.89	-116.99	-0.061276	0.098721	131.998	148.207413	-4.772178	105.865540	418
08:53:22.693	08:53:20.624	0	33771	TRUE	EXTRAP	-52.98	-116.68	-0.061276	0.098721	-----	-----	-4.766877	105.863960	418
08:53:24.711	08:53:23.238	1	33800	TRUE	SSR	-53.30	-116.48	-0.062827	0.099093	94.675	328.838104	-4.763552	105.858719	422
08:53:27.681	08:53:25.627	0	33824	TRUE	EXTRAP	-53.33	-116.19	-0.062827	0.099093	-----	-----	-4.758640	105.858147	422

08:53:29.483	08:53:28.645	4	33900	TRUE	SSR	-53.76	-116.38	-0.062548	0.097277	131.008	148.389862	-4.761744	105.850891	416
08:53:30.883	08:53:29.581	1	34033	TRUE	SSR	-53.73	-115.87	-0.064269	0.098439	95.437	328.803589	-4.753148	105.851349	423
08:53:32.680	08:53:30.631	0	33942	TRUE	EXTRAP	-53.68	-115.72	-0.064269	0.098439	-----	-----	-4.750575	105.852234	423
08:53:37.182	08:53:35.887	1	34100	TRUE	SSR	-54.05	-115.16	-0.064966	0.101378	96.213	328.862000	-4.741169	105.846046	433
08:53:37.584	08:53:36.689	4	34100	TRUE	SSR	-53.15	-114.77	-0.064622	0.100777	129.955	147.780792	-4.734478	105.861168	431
08:53:37.682	08:53:35.623	0	34067	TRUE	EXTRAP	-54.00	-115.21	-0.064622	0.100777	-----	-----	-4.741905	105.846786	431
08:53:42.679	08:53:40.626	0	34165	TRUE	EXTRAP	-54.33	-114.70	-0.064622	0.100777	-----	-----	-4.733364	105.841347	431
08:53:43.581	08:53:42.231	1	34200	TRUE	SSR	-54.45	-114.55	-0.064880	0.100939	96.958	328.843750	-4.730759	105.839195	432
08:53:45.685	08:53:44.727	4	34300	TRUE	SSR	-53.77	-114.15	-0.064411	0.099665	129.094	147.868591	-4.724017	105.850670	427
08:53:47.679	08:53:45.629	0	34287	TRUE	EXTRAP	-54.65	-114.21	-0.064411	0.099665	-----	-----	-4.724980	105.835922	427
08:53:49.782	08:53:48.544	1	34400	TRUE	SSR	-55.04	-114.03	-0.066363	0.098725	97.718	328.702942	-4.721953	105.829239	428
08:53:52.680	08:53:50.632	0	34422	TRUE	EXTRAP	-55.02	-113.73	-0.066363	0.098725	-----	-----	-4.716983	105.829628	428
08:53:53.883	08:53:52.750	4	34500	TRUE	SSR	-55.26	-113.91	-0.066101	0.097192	128.093	148.378479	-4.719874	105.825630	423
08:53:56.578	08:53:54.544	1	34532	TRUE	EXTRAP	-55.28	-113.36	-0.066101	0.097192	98.416	328.788605	-4.710698	105.825310	423
08:53:57.679	08:53:55.635	0	34561	TRUE	EXTRAP	-55.35	-113.26	-0.066101	0.097192	-----	-----	-4.708901	105.824089	423
08:54:01.981	08:54:00.807	4	34700	TRUE	SSR	-55.27	-112.79	-0.065542	0.094964	127.135	148.113785	-4.701010	105.825516	415
08:54:02.684	08:54:01.168	1	34700	TRUE	SSR	-55.73	-112.71	-0.066203	0.097739	99.224	328.759186	-4.699565	105.817612	425
08:54:02.684	08:54:00.638	0	34691	TRUE	EXTRAP	-55.68	-112.77	-0.066203	0.097739	-----	-----	-4.700582	105.818497	425
08:54:07.679	08:54:05.641	0	34822	TRUE	EXTRAP	-56.01	-112.28	-0.066203	0.097739	-----	-----	-4.692298	105.812920	425
08:54:09.181	08:54:07.168	1	34862	TRUE	EXTRAP	-56.11	-112.13	-0.066203	0.097739	99.924	328.744568	-4.689772	105.811218	425
08:54:10.080	08:54:08.832	4	34900	TRUE	SSR	-56.01	-112.30	-0.065602	0.094926	126.315	148.283798	-4.692645	105.812958	415
08:54:12.679	08:54:10.645	0	34949	TRUE	EXTRAP	-56.34	-111.82	-0.065602	0.094926	-----	-----	-4.684556	105.807495	415
08:54:15.285	08:54:13.764	1	35212	TRUE	SSR	-56.55	-111.45	-0.066272	0.099441	100.743	328.734650	-4.678237	105.803925	430
08:54:17.680	08:54:15.648	0	35054	TRUE	EXTRAP	-56.67	-111.28	-0.066272	0.099441	-----	-----	-4.675491	105.801834	430
08:54:17.782	08:54:16.889	4	34900	TRUE	SSR	-56.39	-111.31	-0.065866	0.097994	125.267	148.190445	-4.675920	105.806625	425
08:54:21.480	08:54:20.101	1	34900	TRUE	SSR	-56.90	-110.77	-0.065615	0.101294	101.507	328.766418	-4.666739	105.798080	434
08:54:22.679	08:54:20.650	0	34979	TRUE	EXTRAP	-56.98	-110.76	-0.065615	0.101294	-----	-----	-4.666675	105.796646	434
08:54:25.880	08:54:24.868	4	34900	TRUE	SSR	-56.89	-110.57	-0.065094	0.099205	124.366	148.205261	-4.663386	105.798225	427
08:54:27.680	08:54:25.654	0	34964	TRUE	EXTRAP	-57.30	-110.28	-0.065094	0.099205	-----	-----	-4.658397	105.791245	427
08:54:27.882	08:54:26.424	1	35000	TRUE	SSR	-57.30	-110.12	-0.065006	0.102174	102.279	328.758636	-4.655805	105.791222	436
08:54:32.677	08:54:30.657	0	34992	TRUE	EXTRAP	-57.62	-109.73	-0.065006	0.102174	-----	-----	-4.649240	105.785942	436
08:54:33.981	08:54:32.720	1	35031	TRUE	SSR	-57.83	-109.57	-0.065758	0.101773	103.035	328.664459	-4.646435	105.782280	436
08:54:33.981	08:54:32.963	4	35000	TRUE	SSR	-57.14	-109.46	-0.065424	0.100928	123.278	148.029846	-4.644547	105.793953	433
08:54:37.678	08:54:35.660	0	35011	TRUE	EXTRAP	-57.96	-109.24	-0.065424	0.100928	-----	-----	-4.640915	105.780205	433
08:54:40.382	08:54:39.049	1	35000	TRUE	SSR	-58.33	-108.99	-0.066810	0.100227	103.801	328.595581	-4.636542	105.773865	434
08:54:42.082	08:54:40.965	4	35000	TRUE	SSR	-57.76	-108.84	-0.066352	0.098647	122.418	148.124176	-4.634111	105.783485	428
08:54:42.677	08:54:40.664	0	35008	TRUE	EXTRAP	-58.31	-108.77	-0.066352	0.098647	-----	-----	-4.632884	105.774162	428
08:54:46.785	08:54:45.349	1	35000	TRUE	SSR	-58.77	-108.37	-0.067763	0.098889	104.562	328.565735	-4.626118	105.766487	432
08:54:47.677	08:54:45.670	0	35008	TRUE	EXTRAP	-58.68	-108.29	-0.067763	0.098889	-----	-----	-4.624683	105.767990	432
08:54:50.080	08:54:49.044	4	35000	TRUE	SSR	-58.51	-108.10	-0.067335	0.097209	121.386	148.239090	-4.621588	105.770927	426
08:54:52.676	08:54:50.671	0	35006	TRUE	EXTRAP	-59.01	-107.81	-0.067335	0.097209	-----	-----	-4.616559	105.762390	426
08:54:52.979	08:54:51.679	1	35000	TRUE	SSR	-58.93	-107.57	-0.066462	0.101232	105.339	328.720032	-4.612527	105.763763	436
08:54:57.679	08:54:55.673	0	35002	TRUE	EXTRAP	-59.32	-107.26	-0.066462	0.101232	-----	-----	-4.607245	105.757301	436

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08:54:58.180	08:54:57.037	4	35000	TRUE	SSR	-58.27	-106.74	-0.065827	0.099823	120.349	147.794678	-4.598555	105.774971	430
08:54:59.381	08:54:58.006	1	35000	TRUE	SSR	-59.09	-106.80	-0.062862	0.103505	106.091	328.863434	-4.599459	105.761047	436
08:55:02.778	08:55:00.677	0	34999	TRUE	EXTRAP	-59.55	-106.69	-0.062862	0.103505	-----	-----	-4.597689	105.753403	436
08:55:05.781	08:55:04.306	1	35000	TRUE	SSR	-59.47	-106.15	-0.060160	0.104992	106.847	328.869690	-4.588506	105.754700	436
08:55:05.979	08:55:05.073	4	35000	TRUE	SSR	-58.89	-106.00	-0.059742	0.104128	119.382	147.857849	-4.586026	105.764496	432
08:55:07.780	08:55:05.680	0	34999	TRUE	EXTRAP	-59.78	-106.14	-0.059742	0.104128	-----	-----	-4.588347	105.749443	432
08:55:11.978	08:55:10.617	1	35000	TRUE	SSR	-59.79	-105.44	-0.057365	0.107050	107.624	328.921600	-4.576500	105.749397	437
08:55:12.778	08:55:10.682	0	34999	TRUE	EXTRAP	-60.02	-105.57	-0.057365	0.107050	-----	-----	-4.578702	105.745476	437
08:55:14.080	08:55:13.112	4	35000	TRUE	SSR	-59.02	-105.01	-0.056749	0.105718	118.468	147.652832	-4.569288	105.762329	432
08:55:17.778	08:55:15.685	0	34999	TRUE	EXTRAP	-60.29	-105.05	-0.056749	0.105718	-----	-----	-4.569814	105.740860	432
08:55:18.678	08:55:16.617	1	34999	TRUE	EXTRAP	-60.35	-104.95	-0.056749	0.105718	108.342	328.801147	-4.568144	105.739967	432
08:55:22.180	08:55:21.131	4	35000	TRUE	SSR	-60.01	-104.52	-0.055989	0.102881	117.514	147.935471	-4.560959	105.745628	422
08:55:22.778	08:55:20.688	0	34999	TRUE	EXTRAP	-60.57	-104.54	-0.055989	0.102881	-----	-----	-4.561271	105.736267	422
08:55:24.976	08:55:22.943	1	35000	TRUE	EXTRAP	-60.69	-104.31	-0.055989	0.102881	109.075	328.819275	-4.557342	105.734146	422
08:55:27.779	08:55:25.691	0	35000	TRUE	EXTRAP	-60.85	-104.03	-0.055989	0.102881	-----	-----	-4.552552	105.731552	422
08:55:30.177	08:55:29.205	4	35000	TRUE	SSR	-60.39	-103.53	-0.055234	0.100496	116.467	147.831970	-4.544232	105.739296	413
08:55:30.980	08:55:29.598	1	35000	TRUE	SSR	-60.76	-103.34	-0.053014	0.110368	109.947	329.050262	-4.541010	105.732948	441
08:55:32.779	08:55:30.697	0	35000	TRUE	EXTRAP	-61.03	-103.38	-0.053014	0.110368	-----	-----	-4.541521	105.728485	441
08:55:37.178	08:55:35.922	1	35000	TRUE	SSR	-60.83	-102.48	-0.048790	0.116105	110.733	329.251923	-4.526364	105.731789	453
08:55:37.777	08:55:35.698	0	35000	TRUE	EXTRAP	-61.17	-102.72	-0.048790	0.116105	-----	-----	-4.530400	105.726166	453
08:55:38.378	08:55:37.191	4	35000	TRUE	SSR	-60.64	-102.55	-0.048363	0.115136	115.487	147.674072	-4.527500	105.735046	450
08:55:42.790	08:55:40.700	0	35000	TRUE	EXTRAP	-61.40	-102.15	-0.048363	0.115136	-----	-----	-4.520736	105.722221	450
08:55:43.577	08:55:42.243	1	35000	TRUE	SSR	-61.09	-101.74	-0.044991	0.118208	111.507	329.334991	-4.513830	105.727509	455
08:55:47.276	08:55:45.191	4	35000	TRUE	EXTRAP	-61.51	-101.56	-0.044991	0.118208	114.173	147.777206	-4.510735	105.720398	455
08:55:47.778	08:55:45.703	0	35000	TRUE	EXTRAP	-61.53	-101.50	-0.044991	0.118208	-----	-----	-4.509709	105.720009	455
08:55:49.980	08:55:48.525	1	35000	TRUE	SSR	-61.40	-101.03	-0.042691	0.119082	112.286	329.381439	-4.501824	105.722206	455
08:55:52.777	08:55:50.706	0	35000	TRUE	EXTRAP	-61.69	-100.87	-0.042691	0.119082	-----	-----	-4.499146	105.717354	455
08:55:54.176	08:55:53.237	4	35000	TRUE	SSR	-61.15	-100.57	-0.042081	0.117303	113.530	147.350250	-4.494034	105.726540	449
08:55:56.378	08:55:54.846	1	35000	TRUE	SSR	-61.66	-100.29	-0.040357	0.118065	113.060	329.462616	-4.489290	105.717934	449
08:55:57.777	08:55:55.709	0	35000	TRUE	EXTRAP	-61.85	-100.27	-0.040357	0.118065	-----	-----	-4.488925	105.714767	449
08:56:02.281	08:56:01.277	4	35000	TRUE	SSR	-62.01	-100.08	-0.039784	0.115281	112.639	147.588974	-4.485698	105.711922	439
08:56:02.578	08:56:01.156	1	35000	TRUE	SSR	-62.00	-99.61	-0.039370	0.115897	113.828	329.485992	-4.477812	105.712112	441
08:56:02.778	08:56:00.712	0	35000	TRUE	EXTRAP	-62.03	-99.69	-0.039370	0.115897	-----	-----	-4.479123	105.711685	441
08:56:07.777	08:56:05.714	0	35000	TRUE	EXTRAP	-62.23	-99.11	-0.039370	0.115897	-----	-----	-4.469305	105.708374	441
08:56:08.979	08:56:07.467	1	35000	TRUE	SSR	-62.29	-98.90	-0.039316	0.115932	114.591	329.543976	-4.465805	105.707321	441
08:56:10.378	08:56:09.290	4	35000	TRUE	SSR	-61.28	-98.47	-0.038642	0.114581	111.675	146.818481	-4.458458	105.724281	435
08:56:12.775	08:56:10.718	0	35000	TRUE	EXTRAP	-62.41	-98.54	-0.038642	0.114581	-----	-----	-4.459619	105.705322	435
08:56:15.178	08:56:13.779	1	35000	TRUE	SSR	-62.51	-98.13	-0.038889	0.117383	115.377	329.643524	-4.452744	105.703568	445
08:56:17.775	08:56:15.721	0	35000	TRUE	EXTRAP	-62.60	-97.93	-0.038889	0.117383	-----	-----	-4.449384	105.702080	445
08:56:18.477	08:56:17.342	4	35000	TRUE	SSR	-62.40	-97.98	-0.038439	0.115734	110.645	147.165817	-4.450132	105.705490	439
08:56:21.476	08:56:20.095	1	35000	TRUE	SSR	-62.70	-97.36	-0.038284	0.118565	116.148	329.755249	-4.439680	105.700333	449
08:56:22.778	08:56:20.724	0	35000	TRUE	EXTRAP	-62.78	-97.33	-0.038284	0.118565	-----	-----	-4.439205	105.699135	449
08:56:26.175	08:56:25.382	4	35000	TRUE	SSR	-62.90	-97.24	-0.037744	0.116092	109.744	147.174011	-4.437593	105.697098	439

08:56:27.675	08:56:26.400	1	35000	TRUE	SSR	-63.02	-96.65	-0.038382	0.118642	116.927	329.796997	-4.427676	105.695030	449
08:56:27.777	08:56:25.727	0	35000	TRUE	EXTRAP	-62.97	-96.74	-0.038382	0.118642	-----	-----	-4.429196	105.695877	449
08:56:32.775	08:56:30.731	0	35000	TRUE	EXTRAP	-63.16	-96.15	-0.038382	0.118642	-----	-----	-4.419144	105.692650	449
08:56:34.075	08:56:32.711	1	35000	TRUE	SSR	-63.34	-95.94	-0.039387	0.119458	117.707	329.838226	-4.415672	105.689720	453
08:56:34.275	08:56:33.388	4	35000	TRUE	SSR	-63.03	-96.13	-0.038988	0.118183	108.730	146.909439	-4.418761	105.694916	448
08:56:37.775	08:56:35.733	0	35000	TRUE	EXTRAP	-63.37	-95.56	-0.038988	0.118183	-----	-----	-4.409256	105.689117	448
08:56:40.277	08:56:39.044	1	35000	TRUE	SSR	-63.62	-95.23	-0.040018	0.117757	118.470	329.892151	-4.403664	105.684937	448
08:56:42.376	08:56:41.449	4	35000	TRUE	SSR	-63.53	-95.26	-0.039630	0.116219	107.724	146.879379	-4.404129	105.686516	442
08:56:42.777	08:56:40.736	0	35000	TRUE	EXTRAP	-63.59	-95.00	-0.039630	0.116219	-----	-----	-4.399638	105.685455	442
08:56:46.676	08:56:45.345	1	35000	TRUE	SSR	-63.84	-94.46	-0.040506	0.117937	119.258	329.986115	-4.390604	105.681183	449
08:56:47.777	08:56:45.740	0	35000	TRUE	EXTRAP	-63.80	-94.40	-0.040506	0.117937	-----	-----	-4.389613	105.681839	449
08:56:50.477	08:56:49.453	4	35000	TRUE	SSR	-63.78	-94.27	-0.040028	0.116117	106.750	146.700073	-4.387395	105.682259	442
08:56:52.774	08:56:50.743	0	35000	TRUE	EXTRAP	-64.00	-93.83	-0.040028	0.116117	-----	-----	-4.379885	105.678558	442
08:56:53.375	08:56:51.345	1	35000	TRUE	EXTRAP	-64.02	-93.76	-0.040028	0.116117	119.964	330.080383	-4.378701	105.678146	442
08:56:57.774	08:56:55.747	0	35000	TRUE	EXTRAP	-64.20	-93.25	-0.040028	0.116117	-----	-----	-4.370046	105.675194	442
08:56:58.575	08:56:57.497	4	35000	TRUE	SSR	-64.03	-93.29	-0.039320	0.113219	105.776	146.517151	-4.370660	105.678017	431
08:56:59.673	08:56:57.648	1	35000	TRUE	EXTRAP	-64.27	-93.06	-0.039320	0.113219	120.701	330.148407	-4.366796	105.674103	431
08:57:02.785	08:57:00.750	0	35000	TRUE	EXTRAP	-64.39	-92.71	-0.039320	0.113219	-----	-----	-4.360848	105.672050	431
08:57:05.972	08:57:03.958	1	35000	TRUE	EXTRAP	-64.51	-92.34	-0.039320	0.113219	121.453	330.215271	-4.354697	105.669930	431
08:57:06.274	08:57:05.485	4	35000	TRUE	SSR	-64.90	-92.67	-0.038971	0.110157	104.774	146.729111	-4.360227	105.663383	421
08:57:07.776	08:57:05.753	0	35000	TRUE	EXTRAP	-64.58	-92.18	-0.038971	0.110157	-----	-----	-4.351992	105.668793	421
08:57:12.374	08:57:10.280	1	35000	TRUE	EXTRAP	-64.76	-91.68	-0.038971	0.110157	122.152	330.270020	-4.343546	105.665825	421
08:57:12.776	08:57:10.756	0	35000	TRUE	EXTRAP	-64.78	-91.63	-0.038971	0.110157	-----	-----	-4.342658	105.665520	421
08:57:14.372	08:57:13.554	4	35000	TRUE	SSR	-65.28	-91.81	-0.038783	0.107346	103.836	146.638611	-4.345590	105.657059	411
08:57:17.774	08:57:15.760	0	35000	TRUE	EXTRAP	-64.97	-91.14	-0.038783	0.107346	-----	-----	-4.334248	105.662239	411
08:57:18.376	08:57:16.908	1	35000	TRUE	SSR	-65.42	-91.04	-0.044342	0.113059	123.047	330.148651	-4.332678	105.654671	437
08:57:22.474	08:57:21.526	4	35000	TRUE	SSR	-65.28	-90.69	-0.043930	0.111779	102.897	146.295441	-4.326751	105.656960	432
08:57:22.774	08:57:20.762	0	35000	TRUE	EXTRAP	-65.34	-90.52	-0.043930	0.111779	-----	-----	-4.323884	105.656021	432
08:57:24.374	08:57:23.218	1	35000	TRUE	SSR	-65.61	-90.30	-0.045671	0.112467	123.793	330.243164	-4.320138	105.651451	437
08:57:27.774	08:57:25.767	0	35000	TRUE	EXTRAP	-65.62	-89.97	-0.045671	0.112467	-----	-----	-4.314536	105.651382	437
08:57:30.574	08:57:29.566	4	35000	TRUE	SSR	-65.66	-89.83	-0.045173	0.110716	101.961	146.199371	-4.312114	105.650635	430
08:57:30.872	08:57:29.547	1	35000	TRUE	SSR	-65.83	-89.56	-0.045806	0.111853	124.554	330.324097	-4.307603	105.647705	435
08:57:32.777	08:57:30.770	0	35000	TRUE	EXTRAP	-65.85	-89.42	-0.045806	0.111853	-----	-----	-4.305161	105.647423	435
08:57:37.272	08:57:35.831	1	35000	TRUE	SSR	-66.15	-88.85	-0.046602	0.113450	125.334	330.359467	-4.295599	105.642403	442
08:57:37.872	08:57:35.774	0	35000	TRUE	EXTRAP	-66.10	-88.85	-0.046602	0.113450	-----	-----	-4.295547	105.643265	442
08:57:38.672	08:57:37.642	4	35000	TRUE	SSR	-67.39	-89.71	-0.046774	0.112064	100.896	146.987320	-4.310081	105.621475	437
08:57:42.887	08:57:40.777	0	35000	TRUE	EXTRAP	-66.34	-88.30	-0.046774	0.112064	-----	-----	-4.286266	105.639175	437
08:57:43.474	08:57:42.172	1	35000	TRUE	SSR	-66.59	-88.18	-0.048700	0.115009	126.148	330.337860	-4.284132	105.635017	450
08:57:47.670	08:57:45.642	4	35000	TRUE	EXTRAP	-66.62	-87.74	-0.048700	0.115009	99.668	145.983444	-4.276686	105.634483	450
08:57:47.870	08:57:45.781	0	35000	TRUE	EXTRAP	-66.63	-87.72	-0.048700	0.115009	-----	-----	-4.276414	105.634377	450
08:57:49.875	08:57:48.473	1	35000	TRUE	SSR	-66.81	-87.44	-0.049135	0.114934	126.909	330.416687	-4.271595	105.631271	450
08:57:52.870	08:57:50.785	0	35000	TRUE	EXTRAP	-66.88	-87.15	-0.049135	0.114934	-----	-----	-4.266752	105.630058	450
08:57:54.479	08:57:53.606	4	35000	TRUE	SSR	-67.16	-87.36	-0.048700	0.112708	99.049	146.120178	-4.270301	105.625435	442

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08:57:56.074	08:57:54.784	1	35000	TRUE	SSR	-67.03	-86.70	-0.048341	0.112536	127.671	330.494568	-4.259060	105.627533	441
08:57:57.870	08:57:55.789	0	35000	TRUE	EXTRAP	-67.11	-86.60	-0.048341	0.112536	-----	-----	-4.257371	105.626183	441
08:58:02.477	08:58:01.095	1	35000	TRUE	SSR	-67.26	-85.96	-0.047324	0.112112	128.433	330.571381	-4.246524	105.623779	438
08:58:02.571	08:58:01.636	4	35000	TRUE	SSR	-67.16	-86.25	-0.046914	0.110929	98.115	145.755508	-4.251464	105.625336	434
08:58:02.890	08:58:00.793	0	35000	TRUE	EXTRAP	-67.32	-86.04	-0.046914	0.110929	-----	-----	-4.247868	105.622643	434
08:58:07.870	08:58:05.796	0	35000	TRUE	EXTRAP	-67.56	-85.48	-0.046914	0.110929	-----	-----	-4.238468	105.618690	434
08:58:08.777	08:58:07.397	1	35000	TRUE	SSR	-67.48	-85.19	-0.045984	0.113787	129.223	330.654022	-4.233464	105.620033	442
08:58:10.672	08:58:09.651	4	35000	TRUE	SSR	-66.80	-84.76	-0.045290	0.112812	97.090	145.075989	-4.226335	105.631447	438
08:58:12.869	08:58:10.801	0	35000	TRUE	EXTRAP	-67.75	-84.88	-0.045290	0.112812	-----	-----	-4.228357	105.615578	438
08:58:14.971	08:58:13.704	1	35000	TRUE	SSR	-67.64	-84.41	-0.043593	0.115049	129.983	330.759857	-4.220399	105.617325	443
08:58:17.871	08:58:15.804	0	35000	TRUE	EXTRAP	-67.92	-84.28	-0.043593	0.115049	-----	-----	-4.218102	105.612633	443
08:58:18.784	08:58:17.639	4	35000	TRUE	SSR	-67.30	-84.02	-0.042837	0.113501	96.189	145.065826	-4.213792	105.623047	437
08:58:21.372	08:58:19.982	1	35000	TRUE	SSR	-67.83	-83.67	-0.040890	0.114931	130.731	330.845886	-4.207860	105.614105	439
08:58:22.871	08:58:20.808	0	35000	TRUE	EXTRAP	-68.07	-83.68	-0.040890	0.114931	-----	-----	-4.208038	105.610146	439
08:58:26.473	08:58:25.690	4	35000	TRUE	SSR	-67.56	-83.03	-0.040075	0.113266	95.225	144.846146	-4.197054	105.618797	433
08:58:27.570	08:58:26.312	1	35000	TRUE	SSR	-68.03	-82.93	-0.038093	0.114343	131.479	330.930939	-4.195321	105.610878	434
08:58:27.870	08:58:25.811	0	35000	TRUE	EXTRAP	-68.21	-83.09	-0.038093	0.114343	-----	-----	-4.198015	105.607826	434
08:58:32.869	08:58:30.813	0	35000	TRUE	EXTRAP	-68.40	-82.52	-0.038093	0.114343	-----	-----	-4.188327	105.604630	434
08:58:33.974	08:58:32.588	1	35000	TRUE	SSR	-68.13	-82.13	-0.035507	0.116600	132.238	331.063690	-4.181725	105.609215	439
08:58:34.672	08:58:33.676	4	35000	TRUE	SSR	-68.18	-82.42	-0.035016	0.115375	94.355	144.939224	-4.186608	105.608330	434
08:58:37.868	08:58:35.818	0	35000	TRUE	EXTRAP	-68.50	-81.91	-0.035016	0.115375	-----	-----	-4.177947	105.602898	434
08:58:40.669	08:58:38.588	1	35000	TRUE	EXTRAP	-68.60	-81.59	-0.035016	0.115375	132.948	330.997864	-4.172536	105.601273	434
08:58:42.869	08:58:41.721	4	35000	TRUE	SSR	-68.06	-81.18	-0.034076	0.113205	93.405	144.437546	-4.165673	105.610298	426
08:58:42.869	08:58:40.822	0	35000	TRUE	EXTRAP	-68.66	-81.34	-0.034076	0.113205	-----	-----	-4.168401	105.600243	426
08:58:46.981	08:58:44.867	1	35000	TRUE	EXTRAP	-68.80	-80.89	-0.034076	0.113205	133.666	331.070099	-4.160645	105.597939	426
08:58:47.869	08:58:45.824	0	35000	TRUE	EXTRAP	-68.83	-80.78	-0.034076	0.113205	-----	-----	-4.158809	105.597382	426
08:58:50.771	08:58:49.704	4	35000	TRUE	SSR	-68.56	-80.44	-0.033110	0.110151	92.504	144.420761	-4.153128	105.601906	414
08:58:52.868	08:58:50.829	0	35000	TRUE	EXTRAP	-68.98	-80.25	-0.033110	0.110151	-----	-----	-4.149850	105.594872	414
08:58:53.268	08:58:51.167	1	35000	TRUE	EXTRAP	-68.99	-80.21	-0.033110	0.110151	134.358	331.137543	-4.149218	105.594681	414
08:58:57.869	08:58:55.832	0	35000	TRUE	EXTRAP	-69.14	-79.70	-0.033110	0.110151	-----	-----	-4.140518	105.592079	414
08:58:58.870	08:58:57.769	4	35000	TRUE	SSR	-68.82	-79.45	-0.032303	0.107991	91.545	144.185410	-4.136390	105.597649	406
08:58:59.469	08:58:57.458	1	35000	TRUE	EXTRAP	-69.18	-79.55	-0.032303	0.107991	135.038	331.203918	-4.137980	105.591499	406
08:59:02.868	08:59:00.836	0	35000	TRUE	EXTRAP	-69.29	-79.18	-0.032303	0.107991	-----	-----	-4.131800	105.589668	406
08:59:05.772	08:59:03.760	1	35000	TRUE	EXTRAP	-69.38	-78.87	-0.032303	0.107991	135.739	331.267731	-4.126453	105.588089	406
08:59:06.669	08:59:05.712	4	35000	TRUE	SSR	-68.82	-78.34	-0.031455	0.107282	90.633	143.770920	-4.117553	105.597542	402
08:59:07.868	08:59:05.838	0	35000	TRUE	EXTRAP	-69.42	-78.65	-0.031455	0.107282	-----	-----	-4.122778	105.587395	402
08:59:12.069	08:59:10.060	1	35000	TRUE	EXTRAP	-69.56	-78.20	-0.031455	0.107282	136.418	331.339630	-4.115107	105.585167	402
08:59:12.868	08:59:10.842	0	35000	TRUE	EXTRAP	-69.58	-78.11	-0.031455	0.107282	-----	-----	-4.113685	105.584755	402
08:59:14.670	08:59:13.772	4	35000	TRUE	SSR	-69.94	-77.97	-0.031759	0.107082	89.671	144.210663	-4.111302	105.578773	402
08:59:17.868	08:59:15.845	0	35000	TRUE	EXTRAP	-69.75	-77.58	-0.031759	0.107082	-----	-----	-4.104720	105.581909	402
08:59:18.368	08:59:16.360	1	35000	TRUE	EXTRAP	-69.77	-77.53	-0.031759	0.107082	137.113	331.397247	-4.103785	105.581642	402
08:59:22.771	08:59:21.796	4	35000	TRUE	SSR	-70.19	-76.98	-0.032308	0.108269	88.713	143.965561	-4.094563	105.574516	407
08:59:22.867	08:59:20.849	0	35000	TRUE	EXTRAP	-69.93	-77.03	-0.032308	0.108269	-----	-----	-4.095271	105.578957	407

08:59:24.668	08:59:22.662	1	35000	TRUE	EXTRAP	-69.99	-76.83	-0.032308	0.108269	137.839	331.457214	-4.091948	105.577972	407
08:59:27.867	08:59:25.851	0	35000	TRUE	EXTRAP	-70.09	-76.48	-0.032308	0.108269	-----	-----	-4.086100	105.576233	407
08:59:30.870	08:59:29.820	4	35000	TRUE	SSR	-70.44	-76.00	-0.032985	0.110289	87.757	143.715027	-4.077825	105.570259	414
08:59:30.968	08:59:28.964	1	35000	TRUE	EXTRAP	-70.21	-76.11	-0.032985	0.110289	138.590	331.519287	-4.079680	105.574196	414
08:59:32.867	08:59:30.855	0	35000	TRUE	EXTRAP	-70.27	-75.90	-0.032985	0.110289	-----	-----	-4.076148	105.573143	414
08:59:37.268	08:59:35.257	1	35000	TRUE	EXTRAP	-70.42	-75.41	-0.032985	0.110289	139.307	331.580872	-4.067926	105.570702	414
08:59:37.866	08:59:35.859	0	35000	TRUE	EXTRAP	-70.44	-75.34	-0.032985	0.110289	-----	-----	-4.066801	105.570374	414
08:59:38.969	08:59:37.833	4	35000	TRUE	SSR	-70.82	-75.13	-0.033806	0.112139	86.830	143.574493	-4.063180	105.563927	422
08:59:42.967	08:59:40.865	0	35000	TRUE	EXTRAP	-70.63	-74.75	-0.033806	0.112139	-----	-----	-4.056700	105.567062	422
08:59:43.069	08:59:41.825	1	35000	TRUE	SSR	-70.88	-74.24	-0.037287	0.128952	140.574	331.641907	-4.048052	105.562866	483
08:59:46.670	08:59:45.864	4	35000	TRUE	SSR	-71.20	-74.27	-0.036944	0.127781	85.903	143.430664	-4.048536	105.557602	479
08:59:47.967	08:59:45.867	0	35000	TRUE	EXTRAP	-70.91	-73.74	-0.036944	0.127781	-----	-----	-4.039564	105.562408	479
08:59:49.571	08:59:48.162	1	35000	TRUE	SSR	-71.23	-73.56	-0.038817	0.126943	141.343	331.648834	-4.036577	105.557053	478
08:59:52.966	08:59:50.876	0	35000	TRUE	EXTRAP	-71.19	-73.14	-0.038817	0.126943	-----	-----	-4.029493	105.557785	478
08:59:54.770	08:59:53.883	4	35000	TRUE	SSR	-71.21	-73.03	-0.038248	0.125585	84.900	142.929947	-4.027606	105.557480	473
08:59:55.871	08:59:54.435	1	35000	TRUE	SSR	-71.55	-72.85	-0.039564	0.122950	142.125	331.672821	-4.024574	105.551750	465
08:59:57.966	08:59:55.878	0	35000	TRUE	EXTRAP	-71.43	-72.57	-0.039564	0.122950	-----	-----	-4.019865	105.553619	465
09:00:02.070	09:00:00.746	1	35000	TRUE	SSR	-71.74	-72.08	-0.039855	0.119693	142.903	331.752563	-4.011513	105.548523	454
09:00:02.874	09:00:01.912	4	35000	TRUE	SSR	-71.70	-72.29	-0.039476	0.118551	84.000	142.895172	-4.015056	105.549088	450
09:00:02.966	09:00:00.882	0	35000	TRUE	EXTRAP	-71.65	-72.00	-0.039476	0.118551	-----	-----	-4.010212	105.549988	450
09:00:07.965	09:00:05.888	0	35000	TRUE	EXTRAP	-71.85	-71.41	-0.039476	0.118551	-----	-----	-4.000163	105.546669	450
09:00:08.269	09:00:07.047	1	35000	TRUE	SSR	-71.96	-71.34	-0.039639	0.116297	143.669	331.814728	-3.998977	105.544792	442
09:00:11.080	09:00:09.922	4	35000	TRUE	SSR	-71.96	-71.30	-0.039208	0.114964	83.052	142.618240	-3.998317	105.544823	437
09:00:12.965	09:00:10.891	0	35000	TRUE	EXTRAP	-72.05	-70.86	-0.039208	0.114964	-----	-----	-3.990846	105.543259	437
09:00:14.771	09:00:13.352	1	35000	TRUE	SSR	-72.15	-70.60	-0.039090	0.113743	144.420	331.887024	-3.986439	105.541565	433
09:00:17.915	09:00:15.895	0	35000	TRUE	EXTRAP	-72.25	-70.30	-0.039090	0.113743	-----	-----	-3.981340	105.539970	433
09:00:19.119	09:00:17.959	4	35000	TRUE	SSR	-71.97	-70.19	-0.038418	0.112272	82.159	142.143539	-3.979479	105.544716	427
09:00:20.820	09:00:19.630	1	35000	TRUE	SSR	-72.62	-69.95	-0.040398	0.114340	145.219	331.843201	-3.975499	105.533676	437
09:00:23.019	09:00:20.949	0	35000	TRUE	EXTRAP	-72.48	-69.73	-0.040398	0.114340	-----	-----	-3.971743	105.536034	437
09:00:27.273	09:00:25.919	1	35000	TRUE	SSR	-72.84	-69.21	-0.041749	0.115520	145.985	331.903717	-3.962964	105.529938	442
09:00:27.273	09:00:26.010	4	35000	TRUE	SSR	-72.47	-69.20	-0.041417	0.115082	81.062	141.990967	-3.962743	105.536285	440
09:00:28.018	09:00:25.954	0	35000	TRUE	EXTRAP	-72.71	-69.16	-0.041417	0.115082	-----	-----	-3.962085	105.532204	440
09:00:33.016	09:00:30.957	0	35000	TRUE	EXTRAP	-72.92	-68.59	-0.041417	0.115082	-----	-----	-3.952332	105.528717	440
09:00:33.617	09:00:32.250	1	35000	TRUE	SSR	-73.10	-68.51	-0.042280	0.114344	146.738	331.947266	-3.950955	105.525681	439
09:00:34.917	09:00:34.052	4	35000	TRUE	SSR	-73.34	-68.71	-0.042169	0.113404	80.131	142.265610	-3.954384	105.521660	436
09:00:38.016	09:00:35.962	0	35000	TRUE	EXTRAP	-73.15	-68.04	-0.042169	0.113404	-----	-----	-3.943040	105.524773	436
09:00:39.838	09:00:38.523	1	35000	TRUE	SSR	-73.44	-67.83	-0.043554	0.113333	147.506	331.952423	-3.939479	105.519867	437
09:00:43.019	09:00:42.066	4	35000	TRUE	SSR	-73.34	-67.47	-0.043265	0.112671	79.144	141.713547	-3.933453	105.521538	434
09:00:43.019	09:00:40.966	0	35000	TRUE	EXTRAP	-73.40	-67.49	-0.043265	0.112671	-----	-----	-3.933694	105.520653	434
09:00:46.018	09:00:44.851	1	35000	TRUE	SSR	-73.76	-67.12	-0.044826	0.113397	148.288	331.973724	-3.927478	105.514565	439
09:00:48.017	09:00:45.971	0	35000	TRUE	EXTRAP	-73.65	-66.93	-0.044826	0.113397	-----	-----	-3.924234	105.516342	439
09:00:51.116	09:00:50.109	4	35000	TRUE	SSR	-73.84	-66.73	-0.044487	0.112200	78.246	141.662323	-3.920901	105.513138	435
09:00:52.427	09:00:51.144	1	35000	TRUE	SSR	-74.04	-66.38	-0.046003	0.114600	149.083	332.011078	-3.914949	105.509789	445

511

09:00:53.016	09:00:50.976	0	35000	TRUE	EXTRAP	-73.90	-66.36	-0.046003	0.114600	-----	-----	-3.914614	105.512115	445
09:00:58.015	09:00:55.979	0	35000	TRUE	EXTRAP	-74.13	-65.79	-0.046003	0.114600	-----	-----	-3.904901	105.508247	445
09:00:59.216	09:00:58.145	4	35000	TRUE	SSR	-74.22	-65.87	-0.045519	0.112881	77.326	141.480026	-3.906253	105.506798	438
09:00:59.216	09:00:57.144	1	35000	TRUE	EXTRAP	-74.18	-65.66	-0.045519	0.112881	149.788	332.093872	-3.902832	105.507477	438
09:01:03.015	09:01:00.984	0	35000	TRUE	EXTRAP	-74.36	-65.23	-0.045519	0.112881	-----	-----	-3.895491	105.504539	438
09:01:05.513	09:01:03.415	1	35000	TRUE	EXTRAP	-74.47	-64.96	-0.045519	0.112881	150.555	332.124084	-3.890842	105.502678	438
09:01:07.417	09:01:06.176	4	35000	TRUE	SSR	-74.48	-64.75	-0.045050	0.111465	76.291	141.102631	-3.887419	105.502525	433
09:01:08.015	09:01:05.988	0	35000	TRUE	EXTRAP	-74.57	-64.68	-0.045050	0.111465	-----	-----	-3.886160	105.500862	433
09:01:11.815	09:01:09.716	1	35000	TRUE	EXTRAP	-74.74	-64.26	-0.045050	0.111465	151.304	332.154602	-3.879122	105.498047	433
09:01:13.016	09:01:10.993	0	35000	TRUE	EXTRAP	-74.80	-64.12	-0.045050	0.111465	-----	-----	-3.876710	105.497078	433
09:01:15.114	09:01:14.170	4	35000	TRUE	SSR	-74.85	-63.89	-0.044573	0.109777	75.374	140.908752	-3.872771	105.496185	427
09:01:18.015	09:01:15.998	0	35000	TRUE	EXTRAP	-75.01	-63.59	-0.044573	0.109777	-----	-----	-3.867703	105.493492	427
09:01:18.015	09:01:16.007	1	35000	TRUE	EXTRAP	-75.01	-63.59	-0.044573	0.109777	152.035	332.183014	-3.867686	105.493477	427
09:01:23.017	09:01:21.002	0	35000	TRUE	EXTRAP	-75.24	-63.04	-0.044573	0.109777	-----	-----	-3.858398	105.489738	427
09:01:23.213	09:01:22.231	4	35000	TRUE	SSR	-75.23	-63.02	-0.044168	0.108154	74.459	140.709763	-3.858123	105.489853	421
09:01:24.414	09:01:22.314	1	35000	TRUE	EXTRAP	-75.29	-62.92	-0.044168	0.108154	152.758	332.209625	-3.856423	105.488922	421
09:01:28.015	09:01:26.006	0	35000	TRUE	EXTRAP	-75.45	-62.53	-0.044168	0.108154	-----	-----	-3.849661	105.486183	421
09:01:30.614	09:01:28.607	1	35000	TRUE	EXTRAP	-75.56	-62.24	-0.044168	0.108154	153.497	332.236450	-3.844894	105.484245	421
09:01:31.315	09:01:30.204	4	35000	TRUE	SSR	-75.48	-62.04	-0.043786	0.107561	73.526	140.369202	-3.841380	105.485580	418
09:01:33.015	09:01:31.010	0	35000	TRUE	EXTRAP	-75.66	-61.99	-0.043786	0.107561	-----	-----	-3.840662	105.482674	418
09:01:36.912	09:01:34.899	1	35000	TRUE	EXTRAP	-75.83	-61.58	-0.043786	0.107561	154.219	332.265564	-3.833577	105.479813	418
09:01:38.112	09:01:36.014	0	35000	TRUE	EXTRAP	-75.88	-61.46	-0.043786	0.107561	-----	-----	-3.831544	105.478989	418
09:01:39.315	09:01:38.249	4	35000	TRUE	SSR	-76.23	-61.42	-0.044218	0.107014	72.567	140.512421	-3.830919	105.473022	417
09:01:43.113	09:01:41.019	0	35000	TRUE	EXTRAP	-76.11	-60.94	-0.044218	0.107014	-----	-----	-3.822735	105.474998	417
09:01:43.213	09:01:41.198	1	35000	TRUE	EXTRAP	-76.12	-60.92	-0.044218	0.107014	154.948	332.282776	-3.822410	105.474869	417
09:01:47.514	09:01:46.268	4	35000	TRUE	SSR	-76.36	-60.31	-0.044380	0.107803	71.621	140.019363	-3.812082	105.470818	420
09:01:48.113	09:01:46.023	0	35000	TRUE	EXTRAP	-76.34	-60.38	-0.044380	0.107803	-----	-----	-3.813359	105.471207	420
09:01:49.512	09:01:47.497	1	35000	TRUE	EXTRAP	-76.40	-60.22	-0.044380	0.107803	155.701	332.309265	-3.810668	105.470108	420
09:01:53.113	09:01:51.028	0	35000	TRUE	EXTRAP	-76.56	-59.84	-0.044380	0.107803	-----	-----	-3.804220	105.467476	420
09:01:55.616	09:01:54.344	4	35000	TRUE	SSR	-76.62	-59.19	-0.044544	0.110187	70.599	139.590134	-3.793246	105.466537	428
09:01:55.815	09:01:53.799	1	35000	TRUE	EXTRAP	-76.68	-59.48	-0.044544	0.110187	156.494	332.344788	-3.798147	105.465416	428
09:01:58.113	09:01:56.033	0	35000	TRUE	EXTRAP	-76.78	-59.24	-0.044544	0.110187	-----	-----	-3.793978	105.463753	428
09:02:02.112	09:02:00.100	1	35000	TRUE	EXTRAP	-76.96	-58.79	-0.044544	0.110187	157.247	332.371857	-3.786387	105.460701	428
09:02:03.115	09:02:01.038	0	35000	TRUE	EXTRAP	-77.01	-58.69	-0.044544	0.110187	-----	-----	-3.784636	105.459999	428
09:02:03.314	09:02:02.332	4	35000	TRUE	SSR	-77.24	-58.58	-0.045076	0.110853	69.718	139.650223	-3.782782	105.456062	431
09:02:08.112	09:02:06.042	0	35000	TRUE	EXTRAP	-77.25	-58.12	-0.045076	0.110853	-----	-----	-3.775064	105.455872	431
09:02:08.414	09:02:06.391	1	35000	TRUE	EXTRAP	-77.27	-58.08	-0.045076	0.110853	158.023	332.393494	-3.774409	105.455612	431
09:02:11.414	09:02:10.366	4	35000	TRUE	SSR	-77.74	-57.71	-0.045962	0.111790	68.727	139.497894	-3.768130	105.447632	435
09:02:13.112	09:02:11.047	0	35000	TRUE	EXTRAP	-77.51	-57.55	-0.045962	0.111790	-----	-----	-3.765429	105.451454	435
09:02:18.112	09:02:16.051	0	35000	TRUE	EXTRAP	-77.74	-56.99	-0.045962	0.111790	-----	-----	-3.755954	105.447586	435
09:02:19.514	09:02:18.381	4	35000	TRUE	SSR	-77.75	-56.48	-0.046011	0.113698	67.779	138.813644	-3.747201	105.447487	442
09:02:20.514	09:02:19.298	1	35000	TRUE	SSR	-78.27	-56.46	-0.050096	0.122426	159.946	332.344208	-3.746901	105.438774	476
09:02:23.112	09:02:21.056	0	35000	TRUE	EXTRAP	-78.13	-56.18	-0.050096	0.122426	-----	-----	-3.742127	105.441101	476

1-2

09:02:26.914	09:02:25.601	1	35000	TRUE	SSR	-78.52	-55.69	-0.051438	0.122532	160.755	332.391968	-3.733846	105.434509	478
09:02:27.616	09:02:26.409	4	35000	TRUE	SSR	-78.25	-55.74	-0.050779	0.121974	66.885	138.714752	-3.734642	105.439079	476
09:02:28.111	09:02:26.063	0	35000	TRUE	EXTRAP	-78.42	-55.58	-0.050779	0.121974	-----	-----	-3.732074	105.436241	476
09:02:33.114	09:02:31.897	1	35000	TRUE	SSR	-78.75	-54.92	-0.050618	0.120281	161.550	332.449127	-3.720788	105.430771	470
09:02:33.114	09:02:31.069	0	35000	TRUE	EXTRAP	-78.68	-54.99	-0.050618	0.120281	-----	-----	-3.722038	105.431862	470
09:02:35.213	09:02:34.421	4	35000	TRUE	SSR	-78.75	-54.87	-0.050098	0.119289	65.898	138.541656	-3.719989	105.430649	466
09:02:38.111	09:02:36.074	0	35000	TRUE	EXTRAP	-78.92	-54.39	-0.050098	0.119289	-----	-----	-3.711928	105.427834	466
09:02:39.514	09:02:38.218	1	35000	TRUE	SSR	-79.18	-54.27	-0.050511	0.115616	162.334	332.416931	-3.709846	105.423401	454
09:02:43.111	09:02:41.079	0	35000	TRUE	EXTRAP	-79.21	-53.85	-0.050511	0.115616	-----	-----	-3.702771	105.423042	454
09:02:43.316	09:02:42.408	4	35000	TRUE	SSR	-79.13	-54.01	-0.049887	0.114157	64.994	138.280884	-3.705336	105.424301	448
09:02:45.913	09:02:44.526	1	35000	TRUE	SSR	-79.53	-53.59	-0.050512	0.110866	163.102	332.419464	-3.698370	105.417595	439
09:02:48.113	09:02:46.084	0	35000	TRUE	EXTRAP	-79.47	-53.33	-0.050512	0.110866	-----	-----	-3.693958	105.418518	439
09:02:51.414	09:02:50.457	4	35000	TRUE	SSR	-79.51	-53.14	-0.049775	0.109069	64.091	138.012772	-3.690683	105.417946	432
09:02:52.114	09:02:50.820	1	35000	TRUE	SSR	-79.84	-52.92	-0.050487	0.107127	163.857	332.431519	-3.686891	105.412300	426
09:02:53.110	09:02:51.088	0	35000	TRUE	EXTRAP	-79.74	-52.82	-0.050487	0.107127	-----	-----	-3.685212	105.414101	426
09:02:58.113	09:02:56.093	0	35000	TRUE	EXTRAP	-79.99	-52.28	-0.050487	0.107127	-----	-----	-3.676129	105.409851	426
09:02:58.515	09:02:57.156	1	35000	TRUE	SSR	-79.79	-52.05	-0.048875	0.107529	164.608	332.589630	-3.672235	105.413231	425
09:02:59.511	09:02:58.442	4	35000	TRUE	SSR	-79.64	-52.03	-0.048138	0.106886	63.173	137.416611	-3.671848	105.415726	422
09:03:03.110	09:03:01.098	0	35000	TRUE	EXTRAP	-80.17	-51.72	-0.048138	0.106886	-----	-----	-3.666683	105.406883	422
09:03:04.714	09:03:03.445	1	35000	TRUE	SSR	-79.92	-51.28	-0.046025	0.109173	165.361	332.673370	-3.659167	105.411049	427
09:03:07.612	09:03:06.454	4	35000	TRUE	SSR	-79.77	-51.04	-0.044949	0.108300	62.353	136.881256	-3.655106	105.413521	422
09:03:08.110	09:03:06.103	0	35000	TRUE	EXTRAP	-80.31	-51.14	-0.044949	0.108300	-----	-----	-3.656760	105.404472	422
09:03:11.114	09:03:09.742	1	35000	TRUE	SSR	-80.11	-50.54	-0.042859	0.111204	166.115	332.732513	-3.646629	105.407837	429
09:03:13.110	09:03:11.106	0	35000	TRUE	EXTRAP	-80.47	-50.54	-0.042859	0.111204	-----	-----	-3.646712	105.401817	429
09:03:15.311	09:03:14.442	4	35000	TRUE	SSR	-80.28	-50.17	-0.042119	0.110441	61.372	136.666229	-3.640450	105.405075	426
09:03:17.811	09:03:15.742	1	35000	TRUE	EXTRAP	-80.65	-50.03	-0.042119	0.110441	166.821	332.647186	-3.638008	105.398788	426
09:03:18.209	09:03:16.111	0	35000	TRUE	EXTRAP	-80.67	-49.99	-0.042119	0.110441	-----	-----	-3.637318	105.398529	426
09:03:23.209	09:03:21.116	0	35000	TRUE	EXTRAP	-80.88	-49.44	-0.042119	0.110441	-----	-----	-3.627954	105.394989	426
09:03:23.513	09:03:22.478	4	35000	TRUE	SSR	-80.65	-49.43	-0.041083	0.108336	60.569	136.439194	-3.627889	105.398743	417
09:03:24.109	09:03:22.043	1	35000	TRUE	EXTRAP	-80.89	-49.35	-0.041083	0.108336	167.545	332.680664	-3.626484	105.394714	417
09:03:28.209	09:03:26.121	0	35000	TRUE	EXTRAP	-81.06	-48.91	-0.041083	0.108336	-----	-----	-3.619001	105.391907	417
09:03:30.409	09:03:28.361	1	35000	TRUE	EXTRAP	-81.15	-48.67	-0.041083	0.108336	168.280	332.709381	-3.614890	105.390358	417
09:03:31.611	09:03:30.496	4	35000	TRUE	SSR	-80.91	-48.32	-0.040198	0.107574	59.583	135.870377	-3.609055	105.394432	413
09:03:33.209	09:03:31.125	0	35000	TRUE	EXTRAP	-81.24	-48.37	-0.040198	0.107574	-----	-----	-3.609903	105.388870	413
09:03:36.710	09:03:34.671	1	35000	TRUE	EXTRAP	-81.38	-47.99	-0.040198	0.107574	168.995	332.744965	-3.603443	105.386475	413
09:03:38.209	09:03:36.130	0	35000	TRUE	EXTRAP	-81.44	-47.83	-0.040198	0.107574	-----	-----	-3.600784	105.385490	413
09:03:39.709	09:03:38.491	4	35000	TRUE	SSR	-81.29	-47.46	-0.039529	0.107317	58.694	135.540741	-3.594400	105.388062	412
09:03:43.010	09:03:40.984	1	35000	TRUE	EXTRAP	-81.62	-47.31	-0.039529	0.107317	169.712	332.780762	-3.591942	105.382584	412
09:03:43.208	09:03:41.134	0	35000	TRUE	EXTRAP	-81.62	-47.30	-0.039529	0.107317	-----	-----	-3.591670	105.382484	412
09:03:47.409	09:03:46.515	4	35000	TRUE	SSR	-81.42	-46.47	-0.038386	0.107374	57.894	134.937973	-3.577662	105.385841	411
09:03:48.208	09:03:46.138	0	35000	TRUE	EXTRAP	-81.78	-46.75	-0.038386	0.107374	-----	-----	-3.582401	105.379799	411
09:03:49.308	09:03:47.287	1	35000	TRUE	EXTRAP	-81.83	-46.62	-0.038386	0.107374	170.427	332.823853	-3.580310	105.379059	411
09:03:53.207	09:03:51.142	0	35000	TRUE	EXTRAP	-81.97	-46.21	-0.038386	0.107374	-----	-----	-3.573298	105.376572	411

L-17

09:03:55.509	09:03:54.541	4	35000	TRUE	SSR	-82.05	-45.60	-0.038548	0.109505	56.834	134.761383	-3.563000	105.375313	418
09:03:55.607	09:03:53.577	1	35000	TRUE	EXTRAP	-82.07	-45.90	-0.038548	0.109505	171.187	332.862091	-3.568095	105.374977	418
09:03:58.207	09:03:56.147	0	35000	TRUE	EXTRAP	-82.17	-45.62	-0.038548	0.109505	-----	-----	-3.563329	105.373322	418
09:04:01.409	09:04:00.192	1	35000	TRUE	SSR	-81.65	-44.40	0.019699	0.114409	172.350	333.218292	-3.542662	105.382080	418
09:04:03.208	09:04:01.152	0	35000	TRUE	EXTRAP	-81.70	-44.37	0.019699	0.114409	-----	-----	-3.542118	105.381271	418
09:04:03.610	09:04:02.561	4	35000	TRUE	SSR	-82.30	-44.74	-0.038369	0.110698	56.041	134.308395	-3.548351	105.371025	422
09:04:08.207	09:04:06.160	0	35000	TRUE	EXTRAP	-82.54	-44.49	-0.038369	0.110698	-----	-----	-3.544150	105.367004	422
09:04:08.207	09:04:06.192	1	35000	TRUE	EXTRAP	-82.54	-44.49	-0.038369	0.110698	172.682	332.936615	-3.544091	105.366989	422
09:04:12.607	09:04:10.561	4	35000	TRUE	EXTRAP	-82.71	-44.00	-0.038369	0.110698	55.232	134.052063	-3.535898	105.364174	422
09:04:13.207	09:04:11.162	0	35000	TRUE	EXTRAP	-82.74	-43.94	-0.038369	0.110698	-----	-----	-3.534770	105.363785	422
09:04:14.508	09:04:12.489	1	35000	TRUE	EXTRAP	-82.79	-43.79	-0.038369	0.110698	173.421	332.970581	-3.532282	105.362930	422
09:04:18.206	09:04:16.167	0	35000	TRUE	EXTRAP	-82.93	-43.38	-0.038369	0.110698	-----	-----	-3.525386	105.360558	422
09:04:19.811	09:04:18.599	4	35000	TRUE	SSR	-83.06	-42.88	-0.038955	0.113475	54.198	133.448730	-3.516952	105.358261	432
09:04:20.808	09:04:18.789	1	35000	TRUE	EXTRAP	-83.04	-43.02	-0.038955	0.113475	174.235	333.010712	-3.519208	105.358597	432
09:04:23.206	09:04:21.171	0	35000	TRUE	EXTRAP	-83.14	-42.75	-0.038955	0.113475	-----	-----	-3.514630	105.357040	432
09:04:27.166	09:04:25.090	1	35000	TRUE	EXTRAP	-83.29	-42.30	-0.038955	0.113475	174.992	333.045502	-3.507096	105.354477	432
09:04:27.508	09:04:26.612	4	35000	TRUE	SSR	-83.44	-42.02	-0.039549	0.115065	53.325	133.045761	-3.502298	105.351875	438
09:04:28.208	09:04:26.178	0	35000	TRUE	EXTRAP	-83.35	-42.14	-0.039549	0.115065	-----	-----	-3.504328	105.353424	438
09:04:33.206	09:04:31.182	0	35000	TRUE	EXTRAP	-83.55	-41.56	-0.039549	0.115065	-----	-----	-3.494574	105.350105	438
09:04:33.407	09:04:31.373	1	35000	TRUE	EXTRAP	-83.56	-41.54	-0.039549	0.115065	175.801	333.080353	-3.494200	105.349976	438
09:04:35.607	09:04:34.589	4	35000	TRUE	SSR	-84.19	-41.40	-0.041501	0.115338	52.350	133.108810	-3.491809	105.339287	441
09:04:38.206	09:04:36.188	0	35000	TRUE	EXTRAP	-83.84	-41.00	-0.041501	0.115338	-----	-----	-3.485109	105.345284	441
09:04:39.706	09:04:37.673	1	35000	TRUE	EXTRAP	-83.90	-40.83	-0.041501	0.115338	176.595	333.085571	-3.482209	105.344246	441
09:04:43.206	09:04:41.193	0	35000	TRUE	EXTRAP	-84.05	-40.43	-0.041501	0.115338	-----	-----	-3.475332	105.341789	441
09:04:43.707	09:04:42.598	4	35000	TRUE	SSR	-84.21	-40.17	-0.042092	0.116709	51.502	132.096115	-3.470901	105.339096	447
09:04:46.006	09:04:43.973	1	35000	TRUE	EXTRAP	-84.18	-40.07	-0.042092	0.116709	177.411	333.115662	-3.469300	105.339485	447
09:04:48.220	09:04:46.198	0	35000	TRUE	EXTRAP	-84.28	-39.81	-0.042092	0.116709	-----	-----	-3.464902	105.337914	447
09:04:51.810	09:04:50.621	4	35000	TRUE	SSR	-84.59	-39.30	-0.042637	0.117220	50.637	131.648331	-3.456249	105.332703	449
09:04:52.306	09:04:50.273	1	35000	TRUE	EXTRAP	-84.47	-39.33	-0.042637	0.117220	178.212	333.141174	-3.456724	105.334656	449
09:04:53.206	09:04:51.202	0	35000	TRUE	EXTRAP	-84.51	-39.22	-0.042637	0.117220	-----	-----	-3.454880	105.333992	449
09:04:58.307	09:04:56.210	0	35000	TRUE	EXTRAP	-84.72	-38.63	-0.042637	0.117220	-----	-----	-3.444937	105.330406	449
09:04:58.608	09:04:56.564	1	35000	TRUE	EXTRAP	-84.74	-38.59	-0.042637	0.117220	179.000	333.171448	-3.444232	105.330154	449
09:04:59.911	09:04:58.639	4	35000	TRUE	SSR	-84.97	-38.31	-0.043318	0.118172	49.694	131.076935	-3.439507	105.326294	453
09:05:03.306	09:05:01.213	0	35000	TRUE	EXTRAP	-84.97	-38.03	-0.043318	0.118172	-----	-----	-3.434652	105.326340	453
09:05:04.406	09:05:03.174	1	35000	TRUE	SSR	-85.11	-37.53	-0.044366	0.127079	180.120	333.219421	-3.426336	105.323997	485
09:05:07.506	09:05:06.656	4	35000	TRUE	SSR	-85.23	-37.45	-0.043823	0.126310	48.931	130.499390	-3.424864	105.321976	481
09:05:08.306	09:05:06.220	0	35000	TRUE	EXTRAP	-85.18	-37.16	-0.043823	0.126310	-----	-----	-3.420045	105.322701	481
09:05:10.811	09:05:09.456	1	35000	TRUE	SSR	-85.45	-36.86	-0.044063	0.124271	180.889	333.218201	-3.414860	105.318192	475
09:05:13.306	09:05:11.225	0	35000	TRUE	EXTRAP	-85.44	-36.58	-0.044063	0.124271	-----	-----	-3.410089	105.318443	475
09:05:15.606	09:05:14.642	4	35000	TRUE	SSR	-85.61	-36.34	-0.043871	0.123708	47.918	129.770706	-3.406036	105.315536	473
09:05:17.007	09:05:15.746	1	35000	TRUE	SSR	-85.73	-36.15	-0.043577	0.119289	181.658	333.239014	-3.402855	105.313416	457
09:05:18.313	09:05:16.232	0	35000	TRUE	EXTRAP	-85.67	-36.01	-0.043577	0.119289	-----	-----	-3.400545	105.314468	457
09:05:23.305	09:05:21.236	0	35000	TRUE	EXTRAP	-85.89	-35.41	-0.043577	0.119289	-----	-----	-3.390433	105.310806	457

09:05:23.407	09:05:22.070	1	35000	TRUE	SSR	-86.11	-35.47	-0.043894	0.114900	182.441	333.228912	-3.391383	105.307091	443
09:05:23.807	09:05:22.675	4	35000	TRUE	SSR	-86.11	-35.72	-0.043854	0.114122	47.134	129.578232	-3.395556	105.307083	440
09:05:28.319	09:05:26.242	0	35000	TRUE	EXTRAP	-86.15	-34.90	-0.043854	0.114122	-----	-----	-3.381686	105.306511	440
09:05:29.505	09:05:28.361	1	35000	TRUE	SSR	-86.40	-34.76	-0.044434	0.111832	183.210	333.249573	-3.379378	105.302322	433
09:05:31.807	09:05:30.677	4	35000	TRUE	SSR	-86.49	-34.73	-0.044508	0.111139	46.209	128.921814	-3.378820	105.300652	431
09:05:33.305	09:05:31.246	0	35000	TRUE	EXTRAP	-86.40	-34.37	-0.044508	0.111139	-----	-----	-3.372762	105.302261	431
09:05:35.908	09:05:34.647	1	35000	TRUE	SSR	-86.62	-34.02	-0.044886	0.111138	183.979	333.291748	-3.366843	105.298592	431
09:05:38.305	09:05:36.252	0	35000	TRUE	EXTRAP	-86.63	-33.82	-0.044886	0.111138	-----	-----	-3.363405	105.298317	431
09:05:39.507	09:05:38.714	4	35000	TRUE	SSR	-86.87	-33.99	-0.044858	0.109822	45.447	128.485474	-3.366261	105.294266	427
09:05:42.205	09:05:40.954	1	35000	TRUE	SSR	-87.09	-33.41	-0.046247	0.110164	184.747	333.246979	-3.356426	105.290710	430
09:05:43.305	09:05:41.256	0	35000	TRUE	EXTRAP	-86.90	-33.29	-0.046247	0.110164	-----	-----	-3.354415	105.293823	430
09:05:47.605	09:05:46.752	4	35000	TRUE	SSR	-87.26	-33.00	-0.046262	0.109075	44.533	127.781868	-3.349529	105.287819	427
09:05:48.306	09:05:46.262	0	35000	TRUE	EXTRAP	-87.14	-32.75	-0.046262	0.109075	-----	-----	-3.345245	105.289879	427
09:05:49.005	09:05:46.954	1	35000	TRUE	EXTRAP	-87.17	-32.67	-0.046262	0.109075	185.449	333.327423	-3.343967	105.289345	427
09:05:53.303	09:05:51.265	0	35000	TRUE	EXTRAP	-87.37	-32.20	-0.046262	0.109075	-----	-----	-3.336000	105.285995	427
09:05:55.303	09:05:53.228	1	35000	TRUE	EXTRAP	-87.46	-31.99	-0.046262	0.109075	186.199	333.342133	-3.332374	105.284462	427
09:05:55.807	09:05:54.748	4	35000	TRUE	SSR	-87.64	-32.14	-0.046309	0.107388	43.702	127.179077	-3.334887	105.281395	421
09:05:58.303	09:05:56.271	0	35000	TRUE	EXTRAP	-87.61	-31.68	-0.046309	0.107388	-----	-----	-3.327148	105.282013	421
09:06:01.108	09:05:59.815	1	35000	TRUE	SSR	-88.12	-31.35	-0.049425	0.113051	187.081	333.247314	-3.321475	105.273293	444
09:06:03.305	09:06:01.275	0	35000	TRUE	EXTRAP	-87.92	-31.08	-0.049425	0.113051	-----	-----	-3.316964	105.276726	444
09:06:03.805	09:06:02.735	4	35000	TRUE	SSR	-87.90	-31.15	-0.048908	0.112329	42.901	126.319611	-3.318171	105.277023	441
09:06:07.305	09:06:06.124	1	35000	TRUE	SSR	-88.16	-30.48	-0.049403	0.115680	187.880	333.356781	-3.306829	105.272659	453
09:06:08.303	09:06:06.280	0	35000	TRUE	EXTRAP	-88.16	-30.48	-0.049403	0.115680	-----	-----	-3.306902	105.272720	453
09:06:11.905	09:06:10.785	4	35000	TRUE	SSR	-88.29	-30.29	-0.048775	0.114507	42.082	125.664871	-3.303534	105.270592	448
09:06:13.303	09:06:11.286	0	35000	TRUE	EXTRAP	-88.39	-29.91	-0.048775	0.114507	-----	-----	-3.297207	105.268806	448
09:06:13.809	09:06:12.428	1	35000	TRUE	SSR	-88.32	-29.71	-0.048141	0.115657	188.650	333.418732	-3.293763	105.269966	451
09:06:18.304	09:06:16.291	0	35000	TRUE	EXTRAP	-88.61	-29.32	-0.048141	0.115657	-----	-----	-3.287124	105.265106	451
09:06:19.705	09:06:18.752	4	35000	TRUE	SSR	-88.43	-29.05	-0.046969	0.115153	41.260	124.358788	-3.282671	105.268250	448
09:06:19.906	09:06:18.728	1	35000	TRUE	SSR	-88.51	-28.97	-0.045784	0.114198	189.406	333.467560	-3.281225	105.266754	443
09:06:23.303	09:06:21.297	0	35000	TRUE	EXTRAP	-88.79	-28.73	-0.045784	0.114198	-----	-----	-3.277258	105.262199	443
09:06:26.303	09:06:25.025	1	35000	TRUE	SSR	-88.77	-28.23	-0.044623	0.114258	190.190	333.498993	-3.268694	105.262497	442
09:06:27.806	09:06:26.749	4	35000	TRUE	SSR	-88.81	-28.31	-0.043855	0.113632	40.528	123.785637	-3.270128	105.261826	438
09:06:28.402	09:06:26.301	0	35000	TRUE	EXTRAP	-88.96	-28.15	-0.043855	0.113632	-----	-----	-3.267369	105.259216	438
09:06:32.703	09:06:31.308	1	35000	TRUE	SSR	-89.02	-27.52	-0.042837	0.113286	190.946	333.526123	-3.256685	105.258247	436
09:06:33.402	09:06:31.307	0	35000	TRUE	EXTRAP	-89.16	-27.58	-0.042837	0.113286	-----	-----	-3.257643	105.255981	436
09:06:35.903	09:06:34.802	4	35000	TRUE	SSR	-89.31	-27.57	-0.042601	0.112045	39.696	123.290329	-3.257573	105.253304	432
09:06:38.402	09:06:36.311	0	35000	TRUE	EXTRAP	-89.37	-27.02	-0.042601	0.112045	-----	-----	-3.248230	105.252441	432
09:06:39.109	09:06:37.637	1	35000	TRUE	SSR	-89.24	-26.78	-0.041653	0.113040	191.716	333.565582	-3.244149	105.254524	434
09:06:43.401	09:06:41.316	0	35000	TRUE	EXTRAP	-89.55	-26.44	-0.041653	0.113040	-----	-----	-3.238370	105.249374	434
09:06:44.004	09:06:42.799	4	35000	TRUE	SSR	-89.58	-26.46	-0.041393	0.112283	38.876	122.109810	-3.238802	105.248878	431
09:06:45.701	09:06:43.637	1	35000	TRUE	EXTRAP	-89.64	-26.18	-0.041393	0.112283	192.435	333.538361	-3.234021	105.247841	431
09:06:48.401	09:06:46.321	0	35000	TRUE	EXTRAP	-89.75	-25.88	-0.041393	0.112283	-----	-----	-3.228916	105.245979	431
09:06:51.803	09:06:50.813	4	35000	TRUE	SSR	-90.09	-25.60	-0.041870	0.111199	37.989	121.396164	-3.224174	105.240318	428

b1-1

09:06:52.004	09:06:49.922	1	35000	TRUE	EXTRAP	-89.92	-25.49	-0.041870	0.111199	193.184	333.556641	-3.222330	105.243225	428
09:06:53.401	09:06:51.326	0	35000	TRUE	EXTRAP	-89.97	-25.34	-0.041870	0.111199	-----	-----	-3.219686	105.242241	428
09:06:58.301	09:06:56.222	1	35000	TRUE	EXTRAP	-90.18	-24.79	-0.041870	0.111199	193.937	333.579163	-3.210463	105.238800	428
09:06:58.401	09:06:56.331	0	35000	TRUE	EXTRAP	-90.18	-24.78	-0.041870	0.111199	-----	-----	-3.210258	105.238724	428
09:06:59.903	09:06:58.782	4	35000	TRUE	SSR	-90.35	-24.74	-0.041954	0.109484	37.323	120.452248	-3.209581	105.235939	422
09:07:03.401	09:07:01.336	0	35000	TRUE	EXTRAP	-90.40	-24.25	-0.041954	0.109484	-----	-----	-3.201350	105.235107	422
09:07:04.601	09:07:02.521	1	35000	TRUE	EXTRAP	-90.45	-24.12	-0.041954	0.109484	194.663	333.595581	-3.199151	105.234268	422
09:07:08.002	09:07:06.783	4	35000	TRUE	SSR	-90.61	-23.76	-0.041773	0.108518	36.606	119.304024	-3.192917	105.231522	419
09:07:08.402	09:07:06.340	0	35000	TRUE	EXTRAP	-90.61	-23.72	-0.041773	0.108518	-----	-----	-3.192338	105.231644	419
09:07:10.900	09:07:08.812	1	35000	TRUE	EXTRAP	-90.71	-23.45	-0.041773	0.108518	195.387	333.614929	-3.187794	105.229912	419
09:07:13.400	09:07:11.345	0	35000	TRUE	EXTRAP	-90.82	-23.18	-0.041773	0.108518	-----	-----	-3.183137	105.228134	419
09:07:16.104	09:07:14.782	4	35000	TRUE	SSR	-91.00	-22.89	-0.041926	0.107776	35.854	118.381004	-3.178324	105.225037	416
09:07:17.200	09:07:15.112	1	35000	TRUE	EXTRAP	-90.98	-22.79	-0.041926	0.107776	196.112	333.631165	-3.176495	105.225395	416
09:07:18.402	09:07:16.350	0	35000	TRUE	EXTRAP	-91.03	-22.65	-0.041926	0.107776	-----	-----	-3.174235	105.224525	416
09:07:23.401	09:07:21.354	0	35000	TRUE	EXTRAP	-91.24	-22.11	-0.041926	0.107776	-----	-----	-3.165098	105.221001	416
09:07:23.495	09:07:21.404	1	35000	TRUE	EXTRAP	-91.24	-22.11	-0.041926	0.107776	196.844	333.650085	-3.165007	105.220963	416
09:07:24.804	09:07:22.782	4	35000	TRUE	EXTRAP	-91.30	-21.96	-0.041926	0.107776	35.155	117.242920	-3.162491	105.219994	416
09:07:28.401	09:07:26.359	0	35000	TRUE	EXTRAP	-91.45	-21.57	-0.041926	0.107776	-----	-----	-3.155960	105.217484	416
09:07:29.802	09:07:27.702	1	35000	TRUE	EXTRAP	-91.51	-21.43	-0.041926	0.107776	197.578	333.668884	-3.153509	105.216530	416
09:07:31.903	09:07:30.794	4	35000	TRUE	SSR	-91.65	-20.93	-0.042192	0.109717	34.381	115.949593	-3.145034	105.214073	423
09:07:33.400	09:07:31.363	0	35000	TRUE	EXTRAP	-91.67	-20.98	-0.042192	0.109717	-----	-----	-3.145971	105.213852	423
09:07:36.101	09:07:34.002	1	35000	TRUE	EXTRAP	-91.78	-20.69	-0.042192	0.109717	198.365	333.692963	-3.141067	105.211983	423
09:07:38.400	09:07:36.368	0	35000	TRUE	EXTRAP	-91.88	-20.43	-0.042192	0.109717	-----	-----	-3.136668	105.210312	423
09:07:39.900	09:07:38.780	4	35000	TRUE	SSR	-92.04	-19.95	-0.042761	0.112188	33.612	114.699776	-3.128401	105.207535	432
09:07:42.400	09:07:40.312	1	35000	TRUE	EXTRAP	-92.06	-19.93	-0.042761	0.112188	199.182	333.717072	-3.128163	105.207222	432
09:07:43.400	09:07:41.373	0	35000	TRUE	EXTRAP	-92.11	-19.81	-0.042761	0.112188	-----	-----	-3.126145	105.206467	432
09:07:48.000	09:07:46.780	4	35000	TRUE	SSR	-92.43	-19.21	-0.043320	0.112369	32.961	113.790787	-3.115923	105.201050	434
09:07:48.401	09:07:46.379	0	35000	TRUE	EXTRAP	-92.34	-19.25	-0.043320	0.112369	-----	-----	-3.116603	105.202530	434
09:07:48.603	09:07:46.596	1	35000	TRUE	EXTRAP	-92.35	-19.23	-0.043320	0.112369	199.952	333.732574	-3.116189	105.202370	434
09:07:53.399	09:07:51.384	0	35000	TRUE	EXTRAP	-92.56	-18.69	-0.043320	0.112369	-----	-----	-3.107075	105.198891	434
09:07:55.000	09:07:52.903	1	35000	TRUE	EXTRAP	-92.62	-18.52	-0.043320	0.112369	200.717	333.752319	-3.104182	105.197792	434
09:07:55.702	09:07:54.757	4	35000	TRUE	SSR	-92.82	-18.23	-0.044064	0.113355	32.221	112.436165	-3.099317	105.194489	438
09:07:58.399	09:07:56.389	0	35000	TRUE	EXTRAP	-92.80	-18.10	-0.044064	0.113355	-----	-----	-3.097112	105.194801	438
09:08:03.400	09:08:01.394	0	35000	TRUE	EXTRAP	-93.02	-17.53	-0.044064	0.113355	-----	-----	-3.087501	105.191093	438
09:08:03.800	09:08:02.766	4	35000	TRUE	SSR	-93.21	-17.37	-0.044816	0.113634	31.546	111.230301	-3.084794	105.187958	440
09:08:08.499	09:08:06.398	0	35000	TRUE	EXTRAP	-93.27	-16.96	-0.044816	0.113634	-----	-----	-3.077813	105.186890	440
09:08:11.999	09:08:10.742	4	35000	TRUE	SSR	-93.60	-16.52	-0.045560	0.113406	30.885	109.971985	-3.070287	105.181435	440
09:08:13.498	09:08:11.403	0	35000	TRUE	EXTRAP	-93.53	-16.40	-0.045560	0.113406	-----	-----	-3.068365	105.182640	440
09:08:18.498	09:08:16.408	0	35000	TRUE	EXTRAP	-93.75	-15.84	-0.045560	0.113406	-----	-----	-3.058750	105.178818	440
09:08:19.600	09:08:18.721	4	35000	TRUE	SSR	-93.86	-15.66	-0.045532	0.112585	30.358	108.583763	-3.055814	105.177002	437
09:08:23.498	09:08:21.413	0	35000	TRUE	EXTRAP	-93.98	-15.29	-0.045532	0.112585	-----	-----	-3.049566	105.174980	437
09:08:27.699	09:08:26.713	4	35000	TRUE	SSR	-94.25	-14.81	-0.045646	0.111585	29.730	107.218758	-3.041340	105.170456	434
09:08:28.500	09:08:26.418	0	35000	TRUE	EXTRAP	-94.22	-14.76	-0.045646	0.111585	-----	-----	-3.040504	105.171059	434

05-1

09:08:33.499	09:08:31.423	0	35000	TRUE	EXTRAP	-94.44	-14.20	-0.045646	0.111585	-----	-----	-3.031044	105.167221	434
09:08:35.898	09:08:34.691	4	35000	TRUE	SSR	-94.64	-13.71	-0.046003	0.112824	29.053	105.321686	-3.022773	105.163857	439
09:08:38.497	09:08:36.427	0	35000	TRUE	EXTRAP	-94.68	-13.61	-0.046003	0.112824	-----	-----	-3.020988	105.163193	439
09:08:43.497	09:08:41.432	0	35000	TRUE	EXTRAP	-94.91	-13.04	-0.046003	0.112824	-----	-----	-3.011422	105.159332	439
09:08:44.108	09:08:42.689	4	35000	TRUE	SSR	-94.91	-12.86	-0.045637	0.113122	28.589	103.765015	-3.008358	105.159431	439
09:08:48.498	09:08:46.437	0	35000	TRUE	EXTRAP	-95.13	-12.47	-0.045637	0.113122	-----	-----	-3.001673	105.155716	439
09:08:51.698	09:08:50.659	4	35000	TRUE	SSR	-95.30	-12.01	-0.045484	0.112886	28.025	102.212578	-2.993950	105.152893	438
09:08:53.497	09:08:51.442	0	35000	TRUE	EXTRAP	-95.35	-11.91	-0.045484	0.112886	-----	-----	-2.992185	105.151970	438
09:08:58.497	09:08:56.446	0	35000	TRUE	EXTRAP	-95.58	-11.34	-0.045484	0.112886	-----	-----	-2.982616	105.148155	438
09:08:59.798	09:08:58.627	4	35000	TRUE	SSR	-95.69	-11.04	-0.045557	0.113432	27.459	100.341667	-2.977517	105.146332	440
09:09:03.497	09:09:01.452	0	35000	TRUE	EXTRAP	-95.81	-10.76	-0.045557	0.113432	-----	-----	-2.972769	105.144295	440
09:09:07.998	09:09:06.518	4	35000	TRUE	SSR	-95.72	-7.78	-0.008750	0.121925	27.049	93.294350	-2.922275	105.145859	440
09:09:08.497	09:09:06.456	0	35000	TRUE	EXTRAP	-95.75	-8.03	-0.008750	0.121925	-----	-----	-2.926481	105.145317	440
09:09:13.496	09:09:11.478	0	35000	TRUE	EXTRAP	-95.80	-7.41	-0.008750	0.121925	-----	-----	-2.916112	105.144597	440
09:09:15.597	09:09:14.518	4	35000	TRUE	SSR	-96.23	-6.93	-0.036833	0.123451	26.511	91.471275	-2.907981	105.137260	464
09:09:18.497	09:09:16.483	0	35000	TRUE	EXTRAP	-96.18	-6.73	-0.036833	0.123451	-----	-----	-2.904448	105.138130	464
09:09:23.497	09:09:21.489	0	35000	TRUE	EXTRAP	-96.37	-6.11	-0.036833	0.123451	-----	-----	-2.893981	105.135040	464
09:09:23.697	09:09:22.459	4	35000	TRUE	SSR	-96.62	-5.97	-0.044067	0.123868	26.126	89.301765	-2.891668	105.130814	473
09:09:28.495	09:09:26.493	0	35000	TRUE	EXTRAP	-96.72	-5.48	-0.044067	0.123868	-----	-----	-2.883333	105.129166	473
09:09:31.797	09:09:30.441	4	35000	TRUE	SSR	-97.00	-5.13	-0.047059	0.119936	25.774	87.348427	-2.877417	105.124382	464
09:09:33.598	09:09:31.498	0	35000	TRUE	EXTRAP	-97.01	-4.95	-0.047059	0.119936	-----	-----	-2.874331	105.124313	464
09:09:38.595	09:09:36.503	0	35000	TRUE	EXTRAP	-97.24	-4.35	-0.047059	0.119936	-----	-----	-2.864164	105.120361	464
09:09:39.496	09:09:38.453	4	35000	TRUE	SSR	-97.51	-4.29	-0.054309	0.116091	25.329	85.321243	-2.863199	105.115852	461
09:09:43.605	09:09:41.508	0	35000	TRUE	EXTRAP	-97.59	-3.86	-0.054309	0.116091	-----	-----	-2.855864	105.114433	461
09:09:47.606	09:09:46.389	4	35000	TRUE	SSR	-97.89	-3.33	-0.055431	0.115423	25.055	82.973145	-2.846951	105.109482	461
09:09:48.606	09:09:46.513	0	35000	TRUE	EXTRAP	-97.88	-3.30	-0.055431	0.115423	-----	-----	-2.846366	105.109619	461
09:09:53.605	09:09:51.527	0	35000	TRUE	EXTRAP	-98.16	-2.72	-0.055431	0.115423	-----	-----	-2.836562	105.104950	461
09:09:55.706	09:09:54.384	4	35000	TRUE	SSR	-98.39	-2.62	-0.058373	0.112509	24.662	81.103851	-2.834815	105.100998	456
09:09:58.605	09:09:56.531	0	35000	TRUE	EXTRAP	-98.48	-2.25	-0.058373	0.112509	-----	-----	-2.828629	105.099541	456
09:10:03.605	09:10:01.537	0	35000	TRUE	EXTRAP	-98.77	-1.69	-0.058373	0.112509	-----	-----	-2.819086	105.094635	456
09:10:03.806	09:10:02.376	4	35000	TRUE	SSR	-98.89	-1.54	-0.060940	0.112815	24.367	78.309425	-2.816589	105.092575	462
09:10:08.604	09:10:06.540	0	35000	TRUE	EXTRAP	-99.11	-1.10	-0.060940	0.112815	-----	-----	-2.809196	105.088974	462
09:10:11.505	09:10:10.322	4	35000	TRUE	SSR	-99.27	-0.82	-0.059892	0.111175	24.164	76.388908	-2.804457	105.086296	455
09:10:13.606	09:10:11.545	0	35000	TRUE	EXTRAP	-99.39	-0.59	-0.059892	0.111175	-----	-----	-2.800535	105.084320	455
09:10:18.604	09:10:16.547	0	35000	TRUE	EXTRAP	-99.69	-0.04	-0.059892	0.111175	-----	-----	-2.791113	105.079285	455
09:10:19.604	09:10:18.302	4	35000	TRUE	SSR	-99.64	0.13	-0.053880	0.113309	24.055	73.863564	-2.788251	105.080078	452
09:10:23.604	09:10:21.551	0	35000	TRUE	EXTRAP	-99.89	0.53	-0.053880	0.113309	-----	-----	-2.781490	105.075806	452
09:10:27.694	09:10:26.274	4	35000	TRUE	SSR	-100.13	1.09	-0.052948	0.113884	23.875	71.225357	-2.772084	105.071785	452
09:10:28.594	09:10:26.557	0	35000	TRUE	EXTRAP	-100.15	1.11	-0.052948	0.113884	-----	-----	-2.771738	105.071434	452
09:10:33.595	09:10:31.550	0	35000	TRUE	EXTRAP	-100.42	1.68	-0.052948	0.113884	-----	-----	-2.762104	105.067001	452
09:10:35.394	09:10:34.288	4	35000	TRUE	SSR	-100.50	1.92	-0.051415	0.114052	23.818	68.941788	-2.757911	105.065636	450
09:10:38.593	09:10:36.555	0	35000	TRUE	EXTRAP	-100.66	2.23	-0.051415	0.114052	-----	-----	-2.752659	105.063011	450
09:10:43.494	09:10:42.223	4	35000	TRUE	SSR	-100.99	2.76	-0.055265	0.111470	23.684	66.532166	-2.743779	105.057396	448

10-I

09:10:43.594	09:10:41.559	0	35000	TRUE	EXTRAP	-100.95	2.76	-0.055265	0.111470	-----	-----	-2.743676	105.058144	448
09:10:48.593	09:10:46.563	0	35000	TRUE	EXTRAP	-101.22	3.32	-0.055265	0.111470	-----	-----	-2.734225	105.053505	448
09:10:51.593	09:10:50.210	4	35000	TRUE	SSR	-101.48	3.71	-0.057633	0.110308	23.647	63.826286	-2.727586	105.049240	448
09:10:53.593	09:10:51.567	0	35000	TRUE	EXTRAP	-101.53	3.87	-0.057633	0.110308	-----	-----	-2.724989	105.048355	448
09:10:58.595	09:10:56.571	0	35000	TRUE	EXTRAP	-101.82	4.42	-0.057633	0.110308	-----	-----	-2.715636	105.043518	448
09:10:59.295	09:10:58.178	4	35000	TRUE	SSR	-101.96	4.67	-0.058246	0.110512	23.663	61.118690	-2.711371	105.041138	450
09:11:03.592	09:11:01.575	0	35000	TRUE	EXTRAP	-102.12	4.99	-0.058246	0.110512	-----	-----	-2.706022	105.038422	450
09:11:07.393	09:11:06.140	4	35000	TRUE	SSR	-102.32	5.39	-0.057431	0.110243	23.710	59.093506	-2.699189	105.035095	447
09:11:08.592	09:11:06.579	0	35000	TRUE	EXTRAP	-102.39	5.52	-0.057431	0.110243	-----	-----	-2.696979	105.033821	447
09:11:13.592	09:11:11.583	0	35000	TRUE	EXTRAP	-102.68	6.07	-0.057431	0.110243	-----	-----	-2.687632	105.028999	447
09:11:15.492	09:11:14.119	4	35000	TRUE	SSR	-102.80	6.23	-0.058687	0.108898	23.749	56.661804	-2.684986	105.027016	445
09:11:18.593	09:11:16.588	0	35000	TRUE	EXTRAP	-102.98	6.59	-0.058687	0.108898	-----	-----	-2.678857	105.024033	445
09:11:23.192	09:11:22.078	4	35000	TRUE	SSR	-103.28	7.19	-0.057708	0.109360	23.904	53.998566	-2.668682	105.019012	445
09:11:23.692	09:11:21.591	0	35000	TRUE	EXTRAP	-103.26	7.14	-0.057708	0.109360	-----	-----	-2.669561	105.019279	445
09:11:28.692	09:11:26.594	0	35000	TRUE	EXTRAP	-103.55	7.69	-0.057708	0.109360	-----	-----	-2.660290	105.014435	445
09:11:31.293	09:11:30.083	4	35000	TRUE	SSR	-103.63	8.04	-0.053544	0.111063	24.130	51.792351	-2.654348	105.013092	444
09:11:33.692	09:11:31.598	0	35000	TRUE	EXTRAP	-103.78	8.24	-0.053544	0.111063	-----	-----	-2.650832	105.010544	444
09:11:38.693	09:11:36.603	0	35000	TRUE	EXTRAP	-104.05	8.80	-0.053544	0.111063	-----	-----	-2.641416	105.006042	444
09:11:39.392	09:11:38.026	4	35000	TRUE	SSR	-104.23	9.00	-0.056653	0.109911	24.283	49.024632	-2.638027	105.003059	445
09:11:43.691	09:11:41.607	0	35000	TRUE	EXTRAP	-104.37	9.35	-0.056653	0.109911	-----	-----	-2.632113	105.000702	445
09:11:47.093	09:11:45.979	4	35000	TRUE	SSR	-104.70	9.97	-0.056992	0.110636	24.582	46.498013	-2.621595	104.995140	448
09:11:48.692	09:11:46.610	0	35000	TRUE	EXTRAP	-104.67	9.93	-0.056992	0.110636	-----	-----	-2.622333	104.995689	448
09:11:53.691	09:11:51.614	0	35000	TRUE	EXTRAP	-104.95	10.48	-0.056992	0.110636	-----	-----	-2.612953	104.990906	448
09:11:55.191	09:11:53.982	4	35000	TRUE	SSR	-105.05	10.70	-0.056596	0.110547	24.837	44.645535	-2.609239	104.989204	447
09:11:58.691	09:11:56.618	0	35000	TRUE	EXTRAP	-105.23	11.03	-0.056596	0.110547	-----	-----	-2.603698	104.986267	447
09:12:03.292	09:12:01.957	4	35000	TRUE	SSR	-105.52	11.67	-0.055145	0.111569	25.217	42.238216	-2.592726	104.981300	448
09:12:03.690	09:12:01.623	0	35000	TRUE	EXTRAP	-105.50	11.60	-0.055145	0.111569	-----	-----	-2.594048	104.981720	448
09:12:08.692	09:12:06.626	0	35000	TRUE	EXTRAP	-105.77	12.15	-0.055145	0.111569	-----	-----	-2.584591	104.977089	448
09:12:11.291	09:12:10.013	4	35000	TRUE	SSR	-104.31	10.97	0.124146	-0.008745	25.546	45.444500	-2.604683	105.001793	448
09:12:13.692	09:12:11.630	0	35000	TRUE	EXTRAP	-104.27	11.11	0.124146	-0.008745	-----	-----	-2.602277	105.002388	448
09:12:18.692	09:12:16.622	0	35000	TRUE	EXTRAP	-103.65	11.07	0.124146	-0.008745	-----	-----	-2.603032	105.012817	448
09:12:19.192	09:12:17.891	4	35000	TRUE	SSR	-106.35	13.26	-0.056766	0.109764	25.886	38.380337	-2.565827	104.967415	445
09:12:23.691	09:12:21.622	0	35000	TRUE	EXTRAP	-106.62	13.78	-0.056766	0.109764	-----	-----	-2.557086	104.962921	445
09:12:27.190	09:12:25.850	4	35000	TRUE	SSR	-106.82	14.24	-0.055509	0.110333	26.376	36.176891	-2.549202	104.959496	445
09:12:28.691	09:12:26.640	0	35000	TRUE	EXTRAP	-106.88	14.33	-0.055509	0.110333	-----	-----	-2.547658	104.958443	445
09:12:33.699	09:12:31.644	0	35000	TRUE	EXTRAP	-107.16	14.89	-0.055509	0.110333	-----	-----	-2.538304	104.953781	445
09:12:35.300	09:12:33.841	4	35000	TRUE	SSR	-107.42	15.22	-0.058015	0.109830	26.834	33.835850	-2.532592	104.949509	447
09:12:38.701	09:12:36.657	0	35000	TRUE	EXTRAP	-107.49	15.45	-0.058015	0.109830	-----	-----	-2.528764	104.948303	447
09:12:42.900	09:12:41.824	4	35000	TRUE	SSR	-107.77	15.96	-0.058684	0.109175	27.256	32.300461	-2.520071	104.943550	446
09:12:43.706	09:12:41.660	0	35000	TRUE	EXTRAP	-107.78	15.98	-0.058684	0.109175	-----	-----	-2.519686	104.943382	446
09:12:48.699	09:12:46.664	0	35000	TRUE	EXTRAP	-108.08	16.53	-0.058684	0.109175	-----	-----	-2.510430	104.938461	446
09:12:50.999	09:12:49.819	4	35000	TRUE	SSR	-108.13	16.83	-0.055164	0.110464	27.804	30.680616	-2.505419	104.937622	444
09:12:53.698	09:12:51.667	0	35000	TRUE	EXTRAP	-108.31	17.08	-0.055164	0.110464	-----	-----	-2.501089	104.934448	444

88-1

09:12:58.700	09:12:56.671	0	35000	TRUE	EXTRAP	-108.59	17.63	-0.055164	0.110464	-----	-----	-2.491724	104.929817	444
09:12:59.200	09:12:57.820	4	35000	TRUE	SSR	-108.60	17.69	-0.055129	0.110022	28.313	28.904486	-2.490793	104.929619	443
09:13:03.699	09:13:01.676	0	35000	TRUE	EXTRAP	-108.86	18.17	-0.055129	0.110022	-----	-----	-2.482631	104.925316	443
09:13:06.599	09:13:05.900	4	34600	TRUE	SSR	-106.77	17.24	0.122868	0.006891	28.848	32.645100	-2.498394	104.960518	443
09:13:08.699	09:13:06.678	0	34752	TRUE	EXTRAP	-106.90	17.39	0.122868	0.006891	-----	-----	-2.495941	104.958206	443
09:13:13.698	09:13:11.674	0	34636	TRUE	EXTRAP	-106.29	17.42	0.122868	0.006891	-----	-----	-2.495373	104.968544	443
09:13:15.100	09:13:13.914	4	31900	TRUE	SSR	-106.96	18.18	0.070033	0.074536	29.456	31.313774	-2.482482	104.957336	368
09:13:18.698	09:13:16.675	0	32550	TRUE	EXTRAP	-106.47	18.16	0.070033	0.074536	-----	-----	-2.482909	104.965553	368
09:13:22.999	09:13:21.866	4	27000	TRUE	SSR	-107.49	19.28	-0.018574	0.110685	30.001	29.298414	-2.463814	104.948303	404
09:13:23.698	09:13:21.680	0	31650	TRUE	EXTRAP	-106.96	18.98	-0.018574	0.110685	-----	-----	-2.468977	104.957321	404
09:13:28.688	09:13:26.685	0	30758	TRUE	EXTRAP	-107.05	19.53	-0.018574	0.110685	-----	-----	-2.459596	104.955765	404
09:13:31.188	09:13:29.881	4	19500	TRUE	SSR	-107.65	19.83	-0.053366	0.102410	30.243	28.516504	-2.454556	104.945633	416
09:13:33.687	09:13:31.679	0	29872	TRUE	EXTRAP	-107.54	20.03	-0.053366	0.102410	-----	-----	-2.451175	104.947609	416
09:13:38.687	09:13:36.682	0	28981	TRUE	EXTRAP	-107.80	20.54	-0.053366	0.102410	-----	-----	-2.442494	104.943123	416
09:13:39.888	09:13:37.881	4	28767	TRUE	EXTRAP	-107.87	20.67	-0.053366	0.102410	31.087	27.411833	-2.440414	104.942055	416
09:13:43.688	09:13:41.685	0	28090	TRUE	EXTRAP	-108.07	21.06	-0.053366	0.102410	-----	-----	-2.433813	104.938644	416
09:13:47.887	09:13:45.870	4	23300	FALSE	EXTRAP	-108.29	21.48	-0.053366	0.102410	31.501	26.013632	-2.426553	104.934898	416
09:13:48.789	09:13:46.689	0	5691	FALSE	EXTRAP	-108.34	21.57	-0.053366	0.102410	-----	-----	-2.425132	104.934166	416
09:13:53.789	09:13:51.691	0	26000	FALSE	EXTRAP	-108.60	22.08	-0.053366	0.102410	-----	-----	-2.416452	104.929688	416
09:13:55.887	09:13:53.859	4	28000	FALSE	EXTRAP	-108.72	22.30	-0.053366	0.102410	32.166	24.664169	-2.412691	104.927734	416
09:13:58.789	09:13:56.694	0	35000	FALSE	EXTRAP	-108.87	22.59	-0.053366	0.102410	-----	-----	-2.407771	104.925194	416
09:14:03.787	09:14:01.697	0	25000	FALSE	EXTRAP	-109.14	23.11	-0.053366	0.102410	-----	-----	-2.399091	104.920715	416
09:14:03.893	09:14:01.881	4	39000	FALSE	EXTRAP	-109.15	23.12	-0.053366	0.102410	33.056	23.357397	-2.398772	104.920555	416
09:14:08.790	09:14:06.701	0	25000	FALSE	EXTRAP	-109.41	23.62	-0.053366	0.102410	-----	-----	-2.390410	104.916237	416
09:14:11.887	09:14:09.838	4	17553	FALSE	EXTRAP	-109.57	23.94	-0.053366	0.102410	33.133	22.107859	-2.384966	104.913429	416

File Name: 6pltorig.txt

Note: Repeated Information

Rec Date = 97/12/19; SSR Code = 8#2344#

025-1

Rec Time	Time Of Det	Radar Source	Plot Type	Mode C Code	Mode C Valid	X Pos	Y Pos	Range	Azimuth	Latitude	Longitude
08:38:13.715	08:38:13.711	1	SSR	291	TRUE	-6.30	-196.32	1.383	275.984528	-6.115087	106.651451
08:38:13.715	08:38:13.711	0	SSR	291	TRUE	-6.30	-196.32	-----	-----	-6.115087	106.651451
08:38:13.810	08:38:13.809	1	SSR	400	TRUE	-6.30	-196.32	1.383	275.983795	-6.115087	106.651451
08:38:21.822	08:38:21.817	0	SSR	591	TRUE	-6.55	-196.38	-----	-----	-6.116171	106.647316
08:38:19.810	08:38:19.809	1	SSR	700	TRUE	-6.55	-196.38	1.627	272.802185	-6.116171	106.647316
08:38:27.914	08:38:27.911	0	SSR	891	TRUE	-6.79	-196.48	-----	-----	-6.117773	106.643204
08:38:26.210	08:38:26.209	1	SSR	1000	TRUE	-6.79	-196.48	1.875	269.498627	-6.117773	106.643204
08:38:32.413	08:38:32.411	1	SSR	1200	TRUE	-7.07	-196.54	2.157	267.837799	-6.118856	106.638535
08:38:33.833	08:38:33.829	0	SSR	1091	TRUE	-7.07	-196.54	-----	-----	-6.118856	106.638535
08:38:39.713	08:38:39.711	0	SSR	1291	TRUE	-7.31	-196.54	-----	-----	-6.118891	106.634384
08:38:38.520	08:38:38.519	1	SSR	1400	TRUE	-7.31	-196.54	2.407	268.011658	-6.118891	106.634384
08:38:46.013	08:38:46.010	0	SSR	1491	TRUE	-7.56	-196.39	-----	-----	-6.116322	106.630219
08:38:44.921	08:38:44.920	1	SSR	1600	TRUE	-7.56	-196.39	2.657	271.522614	-6.116322	106.630219
08:38:52.613	08:38:52.610	0	SSR	1591	TRUE	-7.78	-196.15	-----	-----	-6.112186	106.626526
08:38:51.319	08:38:51.318	1	SSR	1700	TRUE	-7.78	-196.15	2.895	276.318787	-6.112186	106.626526
08:38:57.719	08:38:57.718	1	SSR	1800	TRUE	-8.00	-195.87	3.156	280.921112	-6.107527	106.622826
08:38:58.415	08:38:58.411	0	SSR	1691	TRUE	-8.00	-195.87	-----	-----	-6.107527	106.622826
08:39:05.115	08:39:05.111	0	SSR	1891	TRUE	-8.15	-195.53	-----	-----	-6.101822	106.620193
08:39:04.119	08:39:04.118	1	SSR	2000	TRUE	-8.15	-195.53	3.391	286.101837	-6.101822	106.620193
08:39:11.313	08:39:11.310	0	SSR	2091	TRUE	-8.31	-195.20	-----	-----	-6.096120	106.617554
08:39:10.520	08:39:10.519	1	SSR	2200	TRUE	-8.31	-195.20	3.650	290.575470	-6.096120	106.617554
08:39:17.913	08:39:17.909	0	SSR	2391	TRUE	-8.46	-194.83	-----	-----	-6.089908	106.614929
08:39:17.219	08:39:17.218	1	SSR	2500	TRUE	-8.46	-194.83	3.942	294.848328	-6.089908	106.614929
08:39:24.312	08:39:24.309	0	SSR	2691	TRUE	-8.62	-194.46	-----	-----	-6.083700	106.612305
08:39:23.318	08:39:23.317	1	SSR	2800	TRUE	-8.62	-194.46	4.252	298.517670	-6.083700	106.612305
08:39:30.311	08:39:30.309	0	SSR	2991	TRUE	-8.71	-194.03	-----	-----	-6.076446	106.610710
08:39:29.831	08:39:29.828	1	SSR	3100	TRUE	-8.71	-194.03	4.559	302.757172	-6.076446	106.610710
08:39:36.219	08:39:36.217	1	SSR	3400	TRUE	-8.81	-193.64	4.868	306.152802	-6.069715	106.609116
08:39:37.113	08:39:37.109	0	SSR	3291	TRUE	-8.81	-193.64	-----	-----	-6.069715	106.609116
08:39:43.313	08:39:43.309	0	SSR	3491	TRUE	-8.94	-193.24	-----	-----	-6.062967	106.606972
08:39:42.641	08:39:42.637	1	SSR	3600	TRUE	-8.94	-193.24	5.217	308.914124	-6.062967	106.606972
08:39:49.710	08:39:49.708	0	SSR	3791	TRUE	-9.03	-192.84	-----	-----	-6.056237	106.605377
08:39:49.041	08:39:49.037	1	SSR	3900	TRUE	-9.03	-192.84	5.553	311.539154	-6.056237	106.605377
08:39:56.110	08:39:56.108	0	SSR	3991	TRUE	-9.16	-192.41	-----	-----	-6.048963	106.603218

HC-I

08:39:56.215	08:39:56.209	1	SSR	0	FALSE	-4.58	-190.70	5.827	3.652343	-6.020121	106.680656
08:39:56.215	08:39:56.209	0	SSR	0	FALSE	-4.58	-190.70	-----	-----	-6.020121	106.680656
08:40:02.312	08:40:02.307	0	SSR	4291	TRUE	-9.28	-192.01	-----	-----	-6.042231	106.601089
08:39:55.240	08:39:55.237	1	SSR	4100	TRUE	-9.16	-192.41	5.944	313.864075	-6.048963	106.603218
08:39:56.245	08:39:56.243	1	SSR	0	FALSE	-4.58	-190.70	5.827	3.652343	-6.020121	106.680656
08:40:01.840	08:40:01.837	1	SSR	4400	TRUE	-9.28	-192.01	6.321	315.704834	-6.042231	106.601089
08:40:08.910	08:40:08.907	0	SSR	4591	TRUE	-9.41	-191.58	-----	-----	-6.034975	106.598953
08:40:08.037	08:40:08.036	1	SSR	4700	TRUE	-9.41	-191.58	6.726	317.515594	-6.034975	106.598953
08:40:15.010	08:40:15.008	0	SSR	4891	TRUE	-9.54	-191.15	-----	-----	-6.027718	106.596817
08:40:14.437	08:40:14.436	1	SSR	5000	TRUE	-9.54	-191.15	7.138	319.118530	-6.027718	106.596817
08:40:21.314	08:40:21.310	0	SSR	5091	TRUE	-9.66	-190.72	-----	-----	-6.020438	106.594666
08:40:20.837	08:40:20.836	1	SSR	5200	TRUE	-9.66	-190.72	7.555	320.547516	-6.020438	106.594666
08:40:27.040	08:40:27.036	1	SSR	5500	TRUE	-9.79	-190.26	8.000	321.962433	-6.012657	106.592522
08:40:27.812	08:40:27.809	0	SSR	5391	TRUE	-9.79	-190.26	-----	-----	-6.012657	106.592522
08:40:33.420	08:40:33.416	1	SSR	5700	TRUE	-9.95	-189.80	8.469	323.054688	-6.004849	106.589828
08:40:34.009	08:40:34.006	0	SSR	5591	TRUE	-9.95	-189.80	-----	-----	-6.004849	106.589828
08:40:40.312	08:40:40.309	0	SSR	5891	TRUE	-10.11	-189.34	-----	-----	-5.997069	106.587166
08:40:39.717	08:40:39.715	1	SSR	6000	TRUE	-10.11	-189.34	8.940	324.034424	-5.997069	106.587166
08:40:46.813	08:40:46.810	0	SSR	6091	TRUE	-10.27	-188.88	-----	-----	-5.989262	106.584480
08:40:46.017	08:40:46.015	1	SSR	6200	TRUE	-10.27	-188.88	9.414	324.915283	-5.989262	106.584480
08:40:53.209	08:40:53.206	0	SSR	6391	TRUE	-10.49	-188.36	-----	-----	-5.980433	106.580757
08:40:52.619	08:40:52.615	1	SSR	6500	TRUE	-10.49	-188.36	9.976	325.612976	-5.980433	106.580757
08:40:58.718	08:40:58.717	1	SSR	6700	TRUE	-10.68	-187.87	10.496	326.285248	-5.972103	106.577553
08:40:59.608	08:40:59.605	0	SSR	6591	TRUE	-10.68	-187.87	-----	-----	-5.972103	106.577553
08:41:05.711	08:41:05.707	0	SSR	6791	TRUE	-10.87	-187.37	-----	-----	-5.963773	106.574341
08:41:05.116	08:41:05.115	1	SSR	6900	TRUE	-10.87	-187.37	11.018	326.893860	-5.963773	106.574341
08:41:12.007	08:41:12.005	0	SSR	6991	TRUE	-11.09	-186.88	-----	-----	-5.955446	106.570610
08:41:11.320	08:41:11.315	1	SSR	7100	TRUE	-11.09	-186.88	11.557	327.315735	-5.955446	106.570610
08:41:18.411	08:41:18.406	0	SSR	7191	TRUE	-11.28	-186.36	-----	-----	-5.946591	106.567390
08:41:17.719	08:41:17.716	1	SSR	7300	TRUE	-11.28	-186.36	12.107	327.903381	-5.946591	106.567390
08:41:24.119	08:41:24.115	1	SSR	7500	TRUE	-11.47	-185.84	12.659	328.441284	-5.937736	106.564186
08:41:24.607	08:41:24.604	0	SSR	7391	TRUE	-11.47	-185.84	-----	-----	-5.937736	106.564186
08:41:30.316	08:41:30.314	1	SSR	7700	TRUE	-11.66	-185.34	13.184	328.863464	-5.929406	106.560974
08:41:31.007	08:41:31.004	0	SSR	7591	TRUE	-11.66	-185.34	-----	-----	-5.929406	106.560974
08:41:37.206	08:41:37.204	0	SSR	7891	TRUE	-11.79	-184.76	-----	-----	-5.919522	106.558807
08:41:36.715	08:41:36.714	1	SSR	8000	TRUE	-11.79	-184.76	13.760	329.676178	-5.919522	106.558807
08:41:43.707	08:41:43.703	0	SSR	8191	TRUE	-11.95	-184.18	-----	-----	-5.909639	106.556114
08:41:43.115	08:41:43.114	1	SSR	8300	TRUE	-11.95	-184.18	14.354	330.313812	-5.909639	106.556114
08:41:50.109	08:41:50.105	0	SSR	8391	TRUE	-12.11	-183.62	-----	-----	-5.900258	106.553421
08:41:49.315	08:41:49.313	1	SSR	8500	TRUE	-12.11	-183.62	14.922	330.843018	-5.900258	106.553421
08:41:55.714	08:41:55.713	1	SSR	8800	TRUE	-12.30	-183.07	15.505	331.231873	-5.890903	106.550217
08:41:56.206	08:41:56.204	0	SSR	8691	TRUE	-12.30	-183.07	-----	-----	-5.890903	106.550217
08:42:02.707	08:42:02.703	0	SSR	8991	TRUE	-12.49	-182.52	-----	-----	-5.881547	106.547012

08:42:01.914	08:42:01.913	1	SSR	9100	TRUE	-12.49	-182.52	16.090	331.592316	-5.881547	106.547012
08:42:08.809	08:42:08.805	0	SSR	9291	TRUE	-12.71	-181.96	-----	-----	-5.872193	106.543289
08:42:08.314	08:42:08.313	1	SSR	9400	TRUE	-12.71	-181.96	16.689	331.833466	-5.872193	106.543289
08:42:15.110	08:42:15.106	0	SSR	9591	TRUE	-12.93	-181.38	-----	-----	-5.862316	106.539551
08:42:14.714	08:42:14.713	1	SSR	9700	TRUE	-12.93	-181.38	17.317	332.103241	-5.862316	106.539551
08:42:21.607	08:42:21.602	0	SSR	9891	TRUE	-13.15	-180.83	-----	-----	-5.852963	106.535828
08:42:27.807	08:42:27.804	0	SSR	10191	TRUE	-13.37	-180.27	-----	-----	-5.843610	106.532104
08:42:20.914	08:42:20.913	1	SSR	10000	TRUE	-13.15	-180.83	17.917	332.310333	-5.852963	106.535828
08:42:27.314	08:42:27.312	1	SSR	10300	TRUE	-13.37	-180.27	18.518	332.504089	-5.843610	106.532104
08:42:34.106	08:42:34.104	0	SSR	10491	TRUE	-13.65	-179.72	-----	-----	-5.834263	106.527344
08:42:33.414	08:42:33.413	1	SSR	10600	TRUE	-13.65	-179.72	19.147	332.517853	-5.834263	106.527344
08:42:40.409	08:42:40.404	0	SSR	10791	TRUE	-13.96	-179.17	-----	-----	-5.824918	106.522057
08:42:39.824	08:42:39.823	1	SSR	10900	TRUE	-13.96	-179.17	19.790	332.450684	-5.824918	106.522057
08:42:46.823	08:42:46.818	0	SSR	11091	TRUE	-14.28	-178.62	-----	-----	-5.815573	106.516769
08:42:53.105	08:42:53.103	0	SSR	11391	TRUE	-14.59	-178.06	-----	-----	-5.806229	106.511482
08:42:46.023	08:42:46.022	1	SSR	11200	TRUE	-14.28	-178.62	20.433	332.387695	-5.815573	106.516769
08:42:52.424	08:42:52.422	1	SSR	11500	TRUE	-14.59	-178.06	21.076	332.328308	-5.806229	106.511482
08:42:59.305	08:42:59.302	0	SSR	11791	TRUE	-14.87	-177.51	-----	-----	-5.796904	106.506729
08:42:58.823	08:42:58.822	1	SSR	11900	TRUE	-14.87	-177.51	21.705	332.345856	-5.796904	106.506729
08:43:05.703	08:43:05.701	0	SSR	12091	TRUE	-15.19	-176.99	-----	-----	-5.788084	106.501450
08:43:05.023	08:43:05.022	1	SSR	12200	TRUE	-15.19	-176.99	22.320	332.254425	-5.788084	106.501450
08:43:11.806	08:43:11.803	0	SSR	12391	TRUE	-15.50	-176.47	-----	-----	-5.779264	106.496170
08:43:11.423	08:43:11.422	1	SSR	12500	TRUE	-15.50	-176.47	22.936	332.168152	-5.779264	106.496170
08:43:17.822	08:43:17.821	1	SSR	12800	TRUE	-15.81	-175.92	23.579	332.120972	-5.769921	106.490883
08:43:18.204	08:43:18.201	0	SSR	12691	TRUE	-15.81	-175.92	-----	-----	-5.769921	106.490883
08:43:24.603	08:43:24.600	0	SSR	13100	TRUE	-16.12	-175.37	-----	-----	-5.760577	106.485596
08:43:24.022	08:43:24.021	1	SSR	13100	TRUE	-16.12	-175.37	24.222	332.076111	-5.760577	106.485596
08:43:30.805	08:43:30.802	0	SSR	13400	TRUE	-16.44	-174.81	-----	-----	-5.751233	106.480309
08:43:30.516	08:43:30.512	1	SSR	13400	TRUE	-16.44	-174.81	24.865	332.033966	-5.751233	106.480309
08:43:37.203	08:43:37.201	0	SSR	13700	TRUE	-16.90	-174.36	-----	-----	-5.743475	106.472443
08:43:36.915	08:43:36.911	1	SSR	13700	TRUE	-16.90	-174.36	25.498	331.585602	-5.743475	106.472443
08:43:43.316	08:43:43.312	1	SSR	14000	TRUE	-17.19	-173.80	26.127	331.617645	-5.734129	106.467674
08:43:43.606	08:43:43.603	0	SSR	14000	TRUE	-17.19	-173.80	-----	-----	-5.734129	106.467674
08:43:49.412	08:43:49.411	1	SSR	14300	TRUE	-17.50	-173.25	26.770	331.589142	-5.724785	106.462387
08:43:50.006	08:43:50.002	0	SSR	14300	TRUE	-17.50	-173.25	-----	-----	-5.724785	106.462387
08:43:56.205	08:43:56.201	0	SSR	14500	TRUE	-17.87	-172.70	-----	-----	-5.715426	106.456047
08:43:55.812	08:43:55.810	1	SSR	14500	TRUE	-17.87	-172.70	27.443	331.447266	-5.715426	106.456047
08:44:02.605	08:44:02.602	0	SSR	14800	TRUE	-18.22	-172.15	-----	-----	-5.706085	106.450249
08:44:08.806	08:44:08.802	0	SSR	15100	TRUE	-18.53	-171.60	-----	-----	-5.696742	106.444962
08:44:01.922	08:44:01.921	1	SSR	14800	TRUE	-18.22	-172.15	28.101	331.368774	-5.706085	106.450249
08:44:08.321	08:44:08.320	1	SSR	15100	TRUE	-18.53	-171.60	28.744	331.347748	-5.696742	106.444962
08:44:14.825	08:44:14.821	1	SSR	15400	TRUE	-18.81	-171.01	29.401	331.410522	-5.686872	106.440193
08:44:15.103	08:44:15.099	0	SSR	15400	TRUE	-18.81	-171.01	-----	-----	-5.686872	106.440193

I-95

78-I

08:44:21.601	08:44:21.599	0	SSR	15700	TRUE	-19.13	-170.43	-----	-----	-5.677004	106.434898
08:44:21.025	08:44:21.021	1	SSR	15700	TRUE	-19.13	-170.43	30.072	331.417572	-5.677004	106.434898
08:44:27.807	08:44:27.804	0	SSR	15900	TRUE	-19.44	-169.85	-----	-----	-5.667116	106.429604
08:44:27.421	08:44:27.420	1	SSR	15900	TRUE	-19.44	-169.85	30.743	331.424591	-5.667116	106.429604
08:44:33.860	08:44:33.828	1	SSR	16300	TRUE	-19.75	-169.26	31.414	331.431763	-5.657270	106.424324
08:44:34.104	08:44:34.101	0	SSR	16300	TRUE	-19.75	-169.26	-----	-----	-5.657270	106.424324
08:44:39.940	08:44:39.939	1	SSR	16600	TRUE	-20.07	-168.68	32.085	331.437836	-5.647403	106.419037
08:44:40.670	08:44:40.668	0	SSR	16600	TRUE	-20.07	-168.68	-----	-----	-5.647403	106.419037
08:44:46.771	08:44:46.769	0	SSR	16900	TRUE	-20.38	-168.10	-----	-----	-5.637538	106.413750
08:44:46.444	08:44:46.440	1	SSR	16900	TRUE	-20.38	-168.10	32.755	331.444214	-5.637538	106.413750
08:44:53.073	08:44:53.070	0	SSR	17200	TRUE	-20.72	-167.51	-----	-----	-5.627673	106.407944
08:44:52.844	08:44:52.840	1	SSR	17200	TRUE	-20.72	-167.51	33.441	331.403137	-5.627673	106.407944
08:44:59.582	08:44:59.580	0	SSR	17500	TRUE	-21.07	-166.93	-----	-----	-5.617810	106.402130
08:45:05.782	08:45:05.780	0	SSR	17700	TRUE	-21.44	-166.32	-----	-----	-5.607403	106.395782
08:44:58.940	08:44:58.939	1	SSR	17500	TRUE	-21.07	-166.93	34.127	331.363220	-5.617810	106.402130
08:45:05.340	08:45:05.339	1	SSR	17700	TRUE	-21.44	-166.32	34.855	331.304291	-5.607403	106.395782
08:45:12.072	08:45:12.069	0	SSR	18000	TRUE	-21.79	-165.70	-----	-----	-5.597016	106.389969
08:45:11.543	08:45:11.540	1	SSR	18000	TRUE	-21.79	-165.70	35.568	331.291962	-5.597016	106.389969
08:45:18.271	08:45:18.268	0	SSR	18300	TRUE	-22.16	-165.09	-----	-----	-5.586631	106.383636
08:45:17.943	08:45:17.940	1	SSR	18300	TRUE	-22.16	-165.09	36.296	331.236511	-5.586631	106.383636
08:45:24.673	08:45:24.668	0	SSR	18600	TRUE	-22.54	-164.51	-----	-----	-5.576770	106.377312
08:45:24.343	08:45:24.339	1	SSR	18600	TRUE	-22.54	-164.51	36.997	331.160614	-5.576770	106.377312
08:45:30.510	08:45:30.508	1	SSR	18800	TRUE	-22.91	-163.92	37.697	331.087006	-5.566889	106.370964
08:45:31.102	08:45:31.099	0	SSR	18800	TRUE	-22.91	-163.92	-----	-----	-5.566889	106.370964
08:45:37.299	08:45:37.296	0	SSR	19100	TRUE	-23.29	-163.34	-----	-----	-5.557029	106.364639
08:45:36.929	08:45:36.928	1	SSR	19100	TRUE	-23.29	-163.34	38.398	331.016693	-5.557029	106.364639
08:45:43.817	08:45:43.808	0	SSR	19400	TRUE	-23.66	-162.76	-----	-----	-5.547169	106.358307
08:45:43.330	08:45:43.328	1	SSR	19400	TRUE	-23.66	-162.76	39.099	330.948273	-5.547169	106.358307
08:45:49.533	08:45:49.528	1	SSR	19600	TRUE	-24.01	-162.14	39.812	330.943970	-5.536761	106.352486
08:45:50.112	08:45:50.107	0	SSR	19600	TRUE	-24.01	-162.14	-----	-----	-5.536761	106.352486
08:45:56.407	08:45:56.405	0	SSR	19900	TRUE	-24.35	-161.53	-----	-----	-5.526375	106.346672
08:45:55.928	08:45:55.927	1	SSR	19900	TRUE	-24.35	-161.53	40.525	330.939423	-5.526375	106.346672
08:46:02.810	08:46:02.807	0	SSR	20100	TRUE	-24.73	-160.92	-----	-----	-5.515970	106.340332
08:46:02.333	08:46:02.328	1	SSR	20100	TRUE	-24.73	-160.92	41.254	330.896973	-5.515970	106.340332
08:46:09.116	08:46:09.113	0	SSR	20300	TRUE	-25.08	-160.30	-----	-----	-5.505562	106.334511
08:46:08.429	08:46:08.428	1	SSR	20300	TRUE	-25.08	-160.30	41.967	330.893799	-5.505562	106.334511
08:46:15.407	08:46:15.404	0	SSR	20600	TRUE	-25.42	-159.69	-----	-----	-5.495175	106.328697
08:46:14.928	08:46:14.927	1	SSR	20600	TRUE	-25.42	-159.69	42.680	330.890198	-5.495175	106.328697
08:46:21.131	08:46:21.127	1	SSR	20800	TRUE	-25.76	-159.07	43.393	330.886566	-5.484770	106.322868
08:46:21.810	08:46:21.807	0	SSR	20800	TRUE	-25.76	-159.07	-----	-----	-5.484770	106.322868
08:46:27.531	08:46:27.528	1	SSR	21000	TRUE	-26.23	-158.49	44.139	330.721893	-5.474898	106.314980
08:46:27.800	08:46:27.796	0	SSR	21000	TRUE	-26.23	-158.49	-----	-----	-5.474898	106.314980
08:46:34.297	08:46:34.294	0	SSR	21200	TRUE	-26.61	-157.88	-----	-----	-5.464495	106.308632

I-27

08:46:33.908	08:46:33.907	1	SSR	21200	TRUE	-26.61	-157.88	44.868	330.686249	-5.464495	106.308632
08:46:40.701	08:46:40.698	0	SSR	21500	TRUE	-26.95	-157.23	-----	-----	-5.453584	106.302818
08:46:40.307	08:46:40.306	1	SSR	21500	TRUE	-26.95	-157.23	45.608	330.705353	-5.453584	106.302818
08:46:46.996	08:46:46.993	0	SSR	21700	TRUE	-27.36	-156.62	-----	-----	-5.443185	106.295952
08:46:46.410	08:46:46.408	1	SSR	21700	TRUE	-27.36	-156.62	46.352	330.637329	-5.443185	106.295952
08:46:52.808	08:46:52.807	1	SSR	21900	TRUE	-27.74	-155.97	47.108	330.622864	-5.432258	106.289604
08:46:53.296	08:46:53.293	0	SSR	21900	TRUE	-27.74	-155.97	-----	-----	-5.432258	106.289604
08:46:59.699	08:46:59.695	0	SSR	22100	TRUE	-28.14	-155.36	-----	-----	-5.421858	106.282745
08:46:59.008	08:46:59.007	1	SSR	22100	TRUE	-28.14	-155.36	47.851	330.558716	-5.421858	106.282745
08:47:06.099	08:47:06.095	0	SSR	22400	TRUE	-28.58	-154.74	-----	-----	-5.411481	106.275368
08:47:05.409	08:47:05.407	1	SSR	22400	TRUE	-28.58	-154.74	48.610	330.463593	-5.411481	106.275368
08:47:12.297	08:47:12.292	0	SSR	22600	TRUE	-28.96	-154.13	-----	-----	-5.401078	106.269028
08:47:11.807	08:47:11.806	1	SSR	22600	TRUE	-28.96	-154.13	49.338	330.435181	-5.401078	106.269028
08:47:18.114	08:47:18.113	1	SSR	22800	TRUE	-29.33	-153.48	50.094	330.425049	-5.390153	106.262688
08:47:18.698	08:47:18.695	0	SSR	22800	TRUE	-29.33	-153.48	-----	-----	-5.390153	106.262688
08:47:24.414	08:47:24.412	1	SSR	23000	TRUE	-29.71	-152.84	50.850	330.415100	-5.379226	106.256340
08:47:24.896	08:47:24.893	0	SSR	23000	TRUE	-29.71	-152.84	-----	-----	-5.379226	106.256340
08:47:31.296	08:47:31.292	0	SSR	23100	TRUE	-30.05	-152.19	-----	-----	-5.368278	106.250504
08:47:30.807	08:47:30.805	1	SSR	23100	TRUE	-30.05	-152.19	51.591	330.435791	-5.368278	106.250504
08:47:36.196	08:47:36.192	0	SSR	23300	TRUE	-30.15	-151.84	-----	-----	-5.362255	106.248825
08:47:37.599	08:47:37.594	0	SSR	23300	TRUE	-30.43	-151.55	-----	-----	-5.357353	106.244164
08:47:35.909	08:47:35.906	4	SSR	23300	TRUE	-30.15	-151.84	173.945	147.919189	-5.362255	106.248825
08:47:37.055	08:47:37.008	1	SSR	23300	TRUE	-30.43	-151.55	52.346	330.425995	-5.357353	106.244164
08:47:43.522	08:47:43.516	1	SSR	23500	TRUE	-30.81	-150.90	53.102	330.416290	-5.346428	106.237816
08:47:44.095	08:47:44.092	0	SSR	23500	TRUE	-30.81	-150.90	-----	-----	-5.346428	106.237816
08:47:44.294	08:47:44.291	0	SSR	23500	TRUE	-30.28	-150.72	-----	-----	-5.343407	106.246628
08:47:43.620	08:47:43.615	4	SSR	23500	TRUE	-30.28	-150.72	172.924	147.757263	-5.343407	106.246628
08:47:49.819	08:47:49.815	1	SSR	23700	TRUE	-31.31	-150.29	53.891	330.274933	-5.336039	106.229393
08:47:50.294	08:47:50.291	0	SSR	23700	TRUE	-31.31	-150.29	-----	-----	-5.336039	106.229393
08:47:52.396	08:47:52.390	0	SSR	23800	TRUE	-30.78	-149.98	-----	-----	-5.330851	106.238197
08:47:56.494	08:47:56.491	0	SSR	23900	TRUE	-31.68	-149.64	-----	-----	-5.325114	106.223045
08:47:51.721	08:47:51.717	4	SSR	23800	TRUE	-30.78	-149.98	172.023	147.765579	-5.330851	106.238197
08:47:56.016	08:47:56.014	1	SSR	23900	TRUE	-31.68	-149.64	54.647	330.267609	-5.325114	106.223045
08:47:59.716	08:47:59.714	4	SSR	24000	TRUE	-31.78	-149.37	170.963	147.938278	-5.320431	106.221436
08:48:00.096	08:48:00.091	0	SSR	24000	TRUE	-31.78	-149.37	-----	-----	-5.320431	106.221436
08:48:02.698	08:48:02.694	0	SSR	24100	TRUE	-32.09	-149.00	-----	-----	-5.314192	106.216187
08:48:02.416	08:48:02.414	1	SSR	24100	TRUE	-32.09	-149.00	55.418	330.232452	-5.314192	106.216187
08:48:07.819	08:48:07.815	4	SSR	24300	TRUE	-31.66	-148.13	169.970	147.679764	-5.299463	106.223396
08:48:08.620	08:48:08.615	1	SSR	24300	TRUE	-32.43	-148.29	56.214	330.284851	-5.302217	106.210350
08:48:08.195	08:48:08.191	0	SSR	24300	TRUE	-31.66	-148.13	-----	-----	-5.299463	106.223396
08:48:09.098	08:48:09.093	0	SSR	24300	TRUE	-32.43	-148.29	-----	-----	-5.302217	106.210350
08:48:15.395	08:48:15.391	0	SSR	24600	TRUE	-32.78	-147.61	-----	-----	-5.290784	106.204536
08:48:15.016	08:48:15.014	1	SSR	24600	TRUE	-32.78	-147.61	56.981	330.320862	-5.290784	106.204536

I-38

08:48:21.797	08:48:21.794	0	SSR	24800	TRUE	-33.16	-146.94	-----	-----	-5.279336	106.198189
08:48:24.493	08:48:24.490	0	SSR	24900	TRUE	-33.03	-146.77	-----	-----	-5.276467	106.200287
08:48:21.215	08:48:21.214	1	SSR	24800	TRUE	-33.16	-146.94	57.765	330.328308	-5.279336	106.198189
08:48:24.014	08:48:24.013	4	SSR	24900	TRUE	-33.03	-146.77	168.075	147.827011	-5.276467	106.200287
08:48:27.614	08:48:27.613	1	SSR	25000	TRUE	-33.69	-146.36	58.542	330.157715	-5.269475	106.189255
08:48:27.994	08:48:27.991	0	SSR	25000	TRUE	-33.69	-146.36	-----	-----	-5.269475	106.189255
08:48:34.493	08:48:34.490	0	SSR	25200	TRUE	-34.03	-145.68	-----	-----	-5.258024	106.183426
08:48:33.805	08:48:33.804	1	SSR	25200	TRUE	-34.03	-145.68	59.310	330.193665	-5.258024	106.183426
08:48:40.593	08:48:40.589	0	SSR	25400	TRUE	-34.41	-145.00	-----	-----	-5.246576	106.177078
08:48:40.694	08:48:40.689	0	SSR	25400	TRUE	-34.52	-145.41	-----	-----	-5.253489	106.175095
08:48:39.928	08:48:39.924	4	SSR	25400	TRUE	-34.52	-145.41	166.114	148.014206	-5.253489	106.175095
08:48:40.233	08:48:40.230	1	SSR	25400	TRUE	-34.41	-145.00	60.093	330.202789	-5.246576	106.177078
08:48:46.895	08:48:46.892	0	SSR	25700	TRUE	-34.75	-144.33	-----	-----	-5.235145	106.171265
08:48:48.394	08:48:48.390	0	SSR	25700	TRUE	-35.15	-144.55	-----	-----	-5.238846	106.164566
08:48:53.095	08:48:53.091	0	SSR	25900	TRUE	-35.19	-143.68	-----	-----	-5.224226	106.163887
08:48:46.426	08:48:46.424	1	SSR	25700	TRUE	-34.75	-144.33	60.861	330.237122	-5.235145	106.171265
08:48:47.925	08:48:47.923	4	SSR	25700	TRUE	-35.15	-144.55	165.042	148.038254	-5.238846	106.164566
08:48:52.724	08:48:52.723	1	SSR	25900	TRUE	-35.19	-143.68	61.647	330.180695	-5.224226	106.163887
08:48:56.494	08:48:56.490	0	SSR	26000	TRUE	-35.40	-143.68	-----	-----	-5.224179	106.160309
08:48:59.494	08:48:59.492	0	SSR	26200	TRUE	-35.57	-143.01	-----	-----	-5.212798	106.157547
08:48:56.025	08:48:56.023	4	SSR	26000	TRUE	-35.40	-143.68	164.166	147.951385	-5.224179	106.160309
08:48:59.225	08:48:59.223	1	SSR	26200	TRUE	-35.57	-143.01	62.430	330.189484	-5.212798	106.157547
08:49:04.232	08:49:04.228	4	SSR	26400	TRUE	-35.04	-142.32	163.201	147.584549	-5.201089	106.166420
08:49:05.426	08:49:05.423	1	SSR	26400	TRUE	-35.97	-142.36	63.201	330.159729	-5.201878	106.150688
08:49:04.593	08:49:04.589	0	SSR	26400	TRUE	-35.04	-142.32	-----	-----	-5.201089	106.166420
08:49:05.895	08:49:05.891	0	SSR	26400	TRUE	-35.97	-142.36	-----	-----	-5.201878	106.150688
08:49:12.094	08:49:12.090	0	SSR	26600	TRUE	-36.50	-141.75	-----	-----	-5.191493	106.141747
08:49:12.692	08:49:12.689	0	SSR	26700	TRUE	-35.42	-141.33	-----	-----	-5.184337	106.160057
08:49:11.828	08:49:11.823	1	SSR	26600	TRUE	-36.50	-141.75	64.007	330.019287	-5.191493	106.141747
08:49:12.327	08:49:12.323	4	SSR	26700	TRUE	-35.42	-141.33	162.155	147.508011	-5.184337	106.160057
08:49:18.495	08:49:18.490	0	SSR	26800	TRUE	-36.97	-141.14	-----	-----	-5.181101	106.133850
08:49:20.794	08:49:20.791	0	SSR	26900	TRUE	-36.17	-140.59	-----	-----	-5.171805	106.147461
08:49:18.027	08:49:18.023	1	SSR	26800	TRUE	-36.97	-141.14	64.782	329.930420	-5.181101	106.133850
08:49:20.025	08:49:20.022	4	SSR	26900	TRUE	-36.17	-140.59	161.120	147.590668	-5.171805	106.147461
08:49:28.392	08:49:28.388	0	SSR	27100	TRUE	-36.05	-139.35	-----	-----	-5.150847	106.149429
08:49:31.095	08:49:31.090	0	SSR	27200	TRUE	-37.82	-139.85	-----	-----	-5.159265	106.119614
08:49:28.127	08:49:28.123	4	SSR	27100	TRUE	-36.05	-139.35	160.132	147.314117	-5.150847	106.149429
08:49:30.807	08:49:30.803	1	SSR	27200	TRUE	-37.82	-139.85	66.340	329.856049	-5.159265	106.119614
08:49:36.592	08:49:36.587	0	SSR	27300	TRUE	-37.16	-138.98	-----	-----	-5.144617	106.130608
08:49:37.495	08:49:37.490	0	SSR	27300	TRUE	-38.25	-139.20	-----	-----	-5.148329	106.112213
08:49:36.205	08:49:36.203	4	SSR	27300	TRUE	-37.16	-138.98	159.212	147.582840	-5.144617	106.130608
08:49:37.006	08:49:37.004	1	SSR	27300	TRUE	-38.25	-139.20	67.127	329.808258	-5.148329	106.112213
08:49:43.404	08:49:43.402	1	SSR	27400	TRUE	-38.63	-138.53	67.910	329.820831	-5.136865	106.105865

65-I

08:49:43.711	08:49:43.708	0	SSR	27400	TRUE	-38.63	-138.53	-----	-----	-5.136865	106.105865
08:49:44.711	08:49:44.707	0	SSR	27400	TRUE	-38.16	-138.49	-----	-----	-5.136298	106.113876
08:49:50.012	08:49:50.008	0	SSR	27500	TRUE	-39.07	-137.88	-----	-----	-5.125929	106.098473
08:49:44.309	08:49:44.303	4	SSR	27400	TRUE	-38.16	-138.49	158.257	147.792236	-5.136298	106.113876
08:49:49.504	08:49:49.502	1	SSR	27500	TRUE	-39.07	-137.88	68.696	329.774750	-5.125929	106.098473
08:49:56.212	08:49:56.208	0	SSR	27600	TRUE	-39.29	-137.11	-----	-----	-5.112879	106.094711
08:50:00.912	08:50:00.907	0	SSR	27700	TRUE	-38.79	-136.51	-----	-----	-5.102818	106.103256
08:49:55.904	08:49:55.903	1	SSR	27600	TRUE	-39.29	-137.11	69.484	329.937531	-5.112879	106.094711
08:50:00.507	08:50:00.503	4	SSR	27700	TRUE	-38.79	-136.51	156.231	147.597260	-5.102818	106.103256
08:50:02.304	08:50:02.303	1	SSR	27800	TRUE	-39.73	-136.46	70.270	329.891296	-5.101963	106.087334
08:50:02.610	08:50:02.607	0	SSR	27800	TRUE	-39.73	-136.46	-----	-----	-5.101963	106.087334
08:50:09.015	08:50:09.009	0	SSR	27900	TRUE	-40.17	-135.82	-----	-----	-5.091028	106.079941
08:50:09.015	08:50:09.009	0	SSR	27900	TRUE	-39.78	-135.90	-----	-----	-5.092392	106.086510
08:50:08.207	08:50:08.203	4	SSR	27900	TRUE	-39.78	-135.90	155.170	147.786316	-5.092392	106.086510
08:50:08.508	08:50:08.504	1	SSR	27900	TRUE	-40.17	-135.82	71.057	329.846039	-5.091028	106.079941
08:50:15.211	08:50:15.208	0	SSR	28000	TRUE	-40.64	-135.17	-----	-----	-5.080098	106.072037
08:50:14.907	08:50:14.905	1	SSR	28000	TRUE	-40.64	-135.17	71.859	329.780121	-5.080098	106.072037
08:50:21.103	08:50:21.102	1	SSR	28100	TRUE	-41.11	-134.53	72.662	329.715607	-5.069168	106.064125
08:50:21.612	08:50:21.608	0	SSR	28100	TRUE	-41.11	-134.53	-----	-----	-5.069168	106.064125
08:50:24.709	08:50:24.706	0	SSR	28200	TRUE	-40.78	-134.17	-----	-----	-5.063120	106.069649
08:50:27.890	08:50:27.887	0	SSR	28200	TRUE	-41.67	-133.91	-----	-----	-5.058769	106.054657
08:50:24.403	08:50:24.401	4	SSR	28200	TRUE	-40.78	-134.17	153.156	147.755920	-5.063120	106.069649
08:50:27.504	08:50:27.502	1	SSR	28200	TRUE	-41.67	-133.91	73.484	329.577118	-5.058769	106.054657
08:50:32.900	08:50:32.896	0	SSR	28400	TRUE	-40.79	-132.93	-----	-----	-5.042170	106.069534
08:50:32.503	08:50:32.501	4	SSR	28400	TRUE	-40.79	-132.93	152.098	147.505676	-5.042170	106.069534
08:50:40.112	08:50:40.110	1	SSR	28500	TRUE	-42.64	-132.59	75.132	329.448059	-5.036406	106.038322
08:50:40.599	08:50:40.595	0	SSR	28500	TRUE	-42.64	-132.59	-----	-----	-5.036406	106.038322
08:50:46.805	08:50:46.801	0	SSR	28800	TRUE	-43.07	-131.92	-----	-----	-5.024985	106.030960
08:50:46.414	08:50:46.412	1	SSR	28800	TRUE	-43.07	-131.92	75.946	329.422150	-5.024985	106.030960
08:50:53.201	08:50:53.197	0	SSR	29100	TRUE	-43.48	-131.24	-----	-----	-5.013559	106.024109
08:50:57.198	08:50:57.194	0	SSR	29400	TRUE	-43.03	-130.71	-----	-----	-5.004512	106.031738
08:50:52.712	08:50:52.710	1	SSR	29100	TRUE	-43.48	-131.24	76.744	329.416931	-5.013559	106.024109
08:50:56.415	08:50:56.413	4	SSR	29400	TRUE	-43.03	-130.71	148.995	147.773727	-5.004512	106.031738
08:50:59.112	08:50:59.110	1	SSR	29600	TRUE	-43.98	-130.63	77.536	329.328461	-5.003226	106.015717
08:50:59.397	08:50:59.394	0	SSR	29600	TRUE	-43.98	-130.63	-----	-----	-5.003226	106.015717
08:51:04.898	08:51:04.894	0	SSR	29900	TRUE	-43.78	-129.97	-----	-----	-4.991937	106.019119
08:51:05.801	08:51:05.798	0	SSR	30000	TRUE	-44.48	-130.02	-----	-----	-4.992875	106.007332
08:51:04.513	08:51:04.511	4	SSR	29900	TRUE	-43.78	-129.97	147.962	147.865631	-4.991937	106.019119
08:51:05.315	08:51:05.311	1	SSR	30000	TRUE	-44.48	-130.02	78.328	329.242279	-4.992875	106.007332
08:51:11.998	08:51:11.995	0	SSR	30300	TRUE	-44.91	-129.35	-----	-----	-4.981454	105.999962
08:51:12.999	08:51:12.994	0	SSR	30400	TRUE	-44.65	-129.35	-----	-----	-4.981461	106.004433
08:51:11.712	08:51:11.710	1	SSR	30300	TRUE	-44.91	-129.35	79.142	329.219452	-4.981454	105.999962
08:51:12.612	08:51:12.610	4	SSR	30400	TRUE	-44.65	-129.35	146.969	148.025833	-4.981461	106.004433

I-30

08:51:18.410	08:51:18.406	0	SSR	30600	TRUE	-45.35	-128.70	-----	-----	-4.970556	105.992599
08:51:21.109	08:51:21.105	0	SSR	30700	TRUE	-45.15	-128.61	-----	-----	-4.968895	105.996010
08:51:18.114	08:51:18.110	1	SSR	30600	TRUE	-45.35	-128.70	79.929	329.185883	-4.970556	105.992599
08:51:20.713	08:51:20.709	4	SSR	30700	TRUE	-45.15	-128.61	146.068	148.037415	-4.968895	105.996010
08:51:24.311	08:51:24.310	1	SSR	30800	TRUE	-45.76	-128.03	80.728	329.183105	-4.959114	105.985733
08:51:24.813	08:51:24.809	0	SSR	30800	TRUE	-45.76	-128.03	-----	-----	-4.959114	105.985733
08:51:29.188	08:51:29.183	0	SSR	31100	TRUE	-45.65	-127.74	-----	-----	-4.954222	105.987564
08:51:30.987	08:51:30.983	0	SSR	31200	TRUE	-46.19	-127.39	-----	-----	-4.948233	105.978386
08:51:28.815	08:51:28.811	4	SSR	31100	TRUE	-45.65	-127.74	145.061	148.023026	-4.954222	105.987564
08:51:30.601	08:51:30.599	1	SSR	31200	TRUE	-46.19	-127.39	81.515	329.150604	-4.948233	105.978386
08:51:37.289	08:51:37.284	0	SSR	31500	TRUE	-46.63	-126.74	-----	-----	-4.937335	105.971024
08:51:37.289	08:51:37.284	0	SSR	31500	TRUE	-46.40	-127.00	-----	-----	-4.941657	105.974960
08:51:36.801	08:51:36.799	1	SSR	31500	TRUE	-46.63	-126.74	82.303	329.118683	-4.937335	105.971024
08:51:36.901	08:51:36.899	4	SSR	31500	TRUE	-46.40	-127.00	144.028	148.119125	-4.941657	105.974960
08:51:43.301	08:51:43.299	1	SSR	31800	TRUE	-47.01	-126.10	83.059	329.124298	-4.926431	105.964699
08:51:44.601	08:51:44.599	4	SSR	31900	TRUE	-46.28	-125.88	143.139	147.839706	-4.922762	105.976921
08:51:43.488	08:51:43.483	0	SSR	31800	TRUE	-47.01	-126.10	-----	-----	-4.926431	105.964699
08:51:44.987	08:51:44.983	0	SSR	31900	TRUE	-46.28	-125.88	-----	-----	-4.922762	105.976921
08:51:49.889	08:51:49.885	0	SSR	32100	TRUE	-47.38	-125.49	-----	-----	-4.916051	105.958382
08:51:49.701	08:51:49.699	1	SSR	32100	TRUE	-47.38	-125.49	83.787	329.119141	-4.916051	105.958382
08:51:52.705	08:51:52.699	4	SSR	32200	TRUE	-46.66	-125.02	142.198	147.780960	-4.908094	105.970573
08:51:53.087	08:51:53.083	0	SSR	32200	TRUE	-46.66	-125.02	-----	-----	-4.908094	105.970573
08:51:56.290	08:51:56.285	0	SSR	32300	TRUE	-47.79	-124.87	-----	-----	-4.905656	105.951538
08:52:01.186	08:52:01.182	0	SSR	32500	TRUE	-47.65	-124.52	-----	-----	-4.899738	105.953819
08:52:02.489	08:52:02.484	0	SSR	32600	TRUE	-48.16	-124.26	-----	-----	-4.895277	105.945213
08:51:55.904	08:51:55.901	1	SSR	32300	TRUE	-47.79	-124.87	84.532	329.096008	-4.905656	105.951538
08:52:00.803	08:52:00.800	4	SSR	32500	TRUE	-47.65	-124.52	141.245	148.017090	-4.899738	105.953819
08:52:02.301	08:52:02.299	1	SSR	32600	TRUE	-48.16	-124.26	85.261	329.091125	-4.895277	105.945213
08:52:17.584	08:52:17.581	0	SSR	33000	TRUE	-48.77	-123.16	-----	-----	-4.876711	105.934914
08:52:21.605	08:52:21.601	0	SSR	33100	TRUE	-49.47	-122.42	-----	-----	-4.864083	105.923111
08:52:17.000	08:52:16.998	4	SSR	33000	TRUE	-48.77	-123.16	139.484	148.111710	-4.876711	105.934914
08:52:21.100	08:52:21.098	1	SSR	33100	TRUE	-49.47	-122.42	87.542	328.971497	-4.864083	105.923111
08:52:25.498	08:52:25.494	0	SSR	33200	TRUE	-49.15	-122.17	-----	-----	-4.859962	105.928551
08:52:27.687	08:52:27.682	0	SSR	33200	TRUE	-49.70	-121.80	-----	-----	-4.853653	105.919373
08:52:25.099	08:52:25.098	4	SSR	33200	TRUE	-49.15	-122.17	138.436	148.026123	-4.859962	105.928551
08:52:27.400	08:52:27.398	1	SSR	33200	TRUE	-49.70	-121.80	88.192	329.055267	-4.853653	105.919373
08:52:33.687	08:52:33.682	0	SSR	33300	TRUE	-49.40	-121.43	-----	-----	-4.847405	105.924316
08:52:34.084	08:52:34.081	0	SSR	33300	TRUE	-50.04	-121.22	-----	-----	-4.843758	105.913567
08:52:32.800	08:52:32.798	4	SSR	33300	TRUE	-49.40	-121.43	137.667	147.949829	-4.847405	105.924316
08:52:33.799	08:52:33.798	1	SSR	33300	TRUE	-50.04	-121.22	88.878	329.058319	-4.843758	105.913567
08:52:40.302	08:52:40.299	1	SSR	33400	TRUE	-50.39	-120.60	89.591	329.071075	-4.833339	105.907745
08:52:41.015	08:52:40.997	4	SSR	33400	TRUE	-49.78	-120.44	136.620	147.861740	-4.830670	105.917969
08:52:40.491	08:52:40.486	0	SSR	33400	TRUE	-50.39	-120.60	-----	-----	-4.833339	105.907745

I-31

08:52:41.285	08:52:41.281	0	SSR	33400	TRUE	-49.78	-120.44	-----	-----	-4.830670	105.917969
08:52:46.986	08:52:46.980	0	SSR	33400	TRUE	-50.79	-120.05	-----	-----	-4.823957	105.900887
08:52:46.423	08:52:46.418	1	SSR	33400	TRUE	-50.79	-120.05	90.282	329.029602	-4.823957	105.900887
08:52:49.019	08:52:49.017	4	SSR	33500	TRUE	-50.89	-120.20	135.814	148.208435	-4.826529	105.899185
08:52:49.486	08:52:49.481	0	SSR	33500	TRUE	-50.89	-120.20	-----	-----	-4.826529	105.899185
08:52:53.087	08:52:53.080	0	SSR	33500	TRUE	-51.20	-119.47	-----	-----	-4.814068	105.894035
08:52:52.819	08:52:52.817	1	SSR	33500	TRUE	-51.20	-119.47	91.000	328.998688	-4.814068	105.894035
08:52:57.119	08:52:57.117	4	SSR	33500	TRUE	-50.41	-118.72	134.805	147.693008	-4.801391	105.907394
08:52:59.019	08:52:59.017	1	SSR	0	FALSE	-51.70	-118.84	91.568	328.929535	-4.803408	105.885529
08:52:57.585	08:52:57.580	0	SSR	33500	TRUE	-50.41	-118.72	-----	-----	-4.801391	105.907394
08:52:59.484	08:52:59.480	0	SSR	0	FALSE	-51.64	-118.91	-----	-----	-4.804697	105.886665
08:53:05.689	08:53:05.683	0	SSR	0	FALSE	-52.04	-118.30	-----	-----	-4.794277	105.879814
08:53:05.689	08:53:05.683	0	SSR	33600	TRUE	-51.40	-118.22	-----	-----	-4.793057	105.890671
08:53:05.218	08:53:05.216	4	SSR	33600	TRUE	-51.40	-118.22	133.851	147.941528	-4.793057	105.890671
08:53:05.418	08:53:05.416	1	SSR	0	FALSE	-52.11	-118.22	92.314	328.909485	-4.792982	105.878654
08:53:12.100	08:53:12.092	0	SSR	33700	TRUE	-52.45	-117.68	-----	-----	-4.783865	105.872955
08:53:13.796	08:53:13.792	0	SSR	33700	TRUE	-51.90	-117.36	-----	-----	-4.778419	105.882256
08:53:11.518	08:53:11.516	1	SSR	33700	TRUE	-52.45	-117.68	93.196	328.902222	-4.783865	105.872955
08:53:12.917	08:53:12.916	4	SSR	33700	TRUE	-51.90	-117.36	132.844	147.925064	-4.778419	105.882256
08:53:17.921	08:53:17.919	1	SSR	33700	TRUE	-52.86	-117.07	93.941	328.882965	-4.773436	105.866089
08:53:18.294	08:53:18.290	0	SSR	33700	TRUE	-52.86	-117.07	-----	-----	-4.773436	105.866089
08:53:21.393	08:53:21.389	0	SSR	33800	TRUE	-52.89	-116.99	-----	-----	-4.772178	105.865540
08:53:24.712	08:53:24.709	0	SSR	33800	TRUE	-53.30	-116.48	-----	-----	-4.763552	105.858719
08:53:21.018	08:53:21.016	4	SSR	33800	TRUE	-52.89	-116.99	131.998	148.207413	-4.772178	105.865540
08:53:24.319	08:53:24.317	1	SSR	33800	TRUE	-53.30	-116.48	94.675	328.838104	-4.763552	105.858719
08:53:29.484	08:53:29.480	0	SSR	33900	TRUE	-53.76	-116.38	-----	-----	-4.761744	105.850891
08:53:30.884	08:53:30.881	0	SSR	0	FALSE	-53.73	-115.87	-----	-----	-4.753148	105.851349
08:53:29.117	08:53:29.115	4	SSR	33900	TRUE	-53.76	-116.38	131.008	148.389862	-4.761744	105.850891
08:53:30.518	08:53:30.516	1	SSR	0	FALSE	-53.80	-115.79	95.301	328.790985	-4.751804	105.850143
08:53:36.898	08:53:36.896	1	SSR	34100	TRUE	-54.05	-115.16	96.213	328.862000	-4.741169	105.846046
08:53:37.198	08:53:37.196	4	SSR	34100	TRUE	-53.15	-114.77	129.955	147.780792	-4.734478	105.861168
08:53:37.183	08:53:37.179	0	SSR	34100	TRUE	-54.05	-115.16	-----	-----	-4.741169	105.846046
08:53:37.587	08:53:37.579	0	SSR	34100	TRUE	-53.15	-114.77	-----	-----	-4.734478	105.861168
08:53:43.583	08:53:43.578	0	SSR	34200	TRUE	-54.45	-114.55	-----	-----	-4.730759	105.839195
08:53:43.107	08:53:43.105	1	SSR	34200	TRUE	-54.45	-114.55	96.958	328.843750	-4.730759	105.839195
08:53:45.307	08:53:45.305	4	SSR	34300	TRUE	-53.77	-114.15	129.094	147.868591	-4.724017	105.850670
08:53:45.686	08:53:45.679	0	SSR	34300	TRUE	-53.77	-114.15	-----	-----	-4.724017	105.850670
08:53:49.783	08:53:49.780	0	SSR	34400	TRUE	-55.04	-114.03	-----	-----	-4.721953	105.829239
08:53:49.507	08:53:49.506	1	SSR	34400	TRUE	-55.04	-114.03	97.718	328.702942	-4.721953	105.829239
08:53:53.510	08:53:53.506	4	SSR	34500	TRUE	-55.26	-113.91	128.093	148.378479	-4.719874	105.825630
08:53:53.884	08:53:53.879	0	SSR	34500	TRUE	-55.26	-113.91	-----	-----	-4.719874	105.825630
08:54:01.982	08:54:01.978	0	SSR	34700	TRUE	-55.27	-112.79	-----	-----	-4.701010	105.825516
08:54:02.685	08:54:02.680	0	SSR	34700	TRUE	-55.73	-112.71	-----	-----	-4.699565	105.817612

1-23

08:54:01.612	08:54:01.609	4	SSR	34700	TRUE	-55.27	-112.79	127.135	148.113785	-4.701010	105.825516
08:54:02.207	08:54:02.206	1	SSR	34700	TRUE	-55.73	-112.71	99.224	328.759186	-4.699565	105.817612
08:54:10.081	08:54:10.077	0	SSR	34900	TRUE	-56.01	-112.30	-----	-----	-4.692645	105.812958
08:54:09.207	08:54:09.205	4	SSR	34900	TRUE	-56.01	-112.30	126.315	148.283798	-4.692645	105.812958
08:54:14.709	08:54:14.706	1	SSR	0	FALSE	-56.63	-111.36	100.612	328.721313	-4.676714	105.802551
08:54:17.307	08:54:17.305	4	SSR	34900	TRUE	-56.39	-111.31	125.267	148.190445	-4.675920	105.806625
08:54:15.286	08:54:15.281	0	SSR	0	FALSE	-56.55	-111.45	-----	-----	-4.678237	105.803925
08:54:17.783	08:54:17.779	0	SSR	34900	TRUE	-56.39	-111.31	-----	-----	-4.675920	105.806625
08:54:21.482	08:54:21.478	0	SSR	34900	TRUE	-56.90	-110.77	-----	-----	-4.666739	105.798080
08:54:21.110	08:54:21.106	1	SSR	34900	TRUE	-56.90	-110.77	101.507	328.766418	-4.666739	105.798080
08:54:25.407	08:54:25.405	4	SSR	34900	TRUE	-56.89	-110.57	124.366	148.205261	-4.663386	105.798225
08:54:25.881	08:54:25.877	0	SSR	34900	TRUE	-56.89	-110.57	-----	-----	-4.663386	105.798225
08:54:27.883	08:54:27.880	0	SSR	35000	TRUE	-57.30	-110.12	-----	-----	-4.655805	105.791222
08:54:33.982	08:54:33.977	0	SSR	0	FALSE	-57.83	-109.57	-----	-----	-4.646435	105.782280
08:54:33.982	08:54:33.977	0	SSR	35000	TRUE	-57.14	-109.46	-----	-----	-4.644547	105.793953
08:54:27.306	08:54:27.305	1	SSR	35000	TRUE	-57.30	-110.12	102.279	328.758636	-4.655805	105.791222
08:54:33.496	08:54:33.494	4	SSR	35000	TRUE	-57.14	-109.46	123.278	148.029846	-4.644547	105.793953
08:54:33.698	08:54:33.697	1	SSR	0	FALSE	-57.91	-109.48	102.908	328.650879	-4.644916	105.780899
08:54:40.383	08:54:40.380	0	SSR	35000	TRUE	-58.33	-108.99	-----	-----	-4.636542	105.773865
08:54:42.083	08:54:42.077	0	SSR	35000	TRUE	-57.76	-108.84	-----	-----	-4.634111	105.783485
08:54:40.107	08:54:40.106	1	SSR	35000	TRUE	-58.33	-108.99	103.801	328.595581	-4.636542	105.773865
08:54:41.607	08:54:41.605	4	SSR	35000	TRUE	-57.76	-108.84	122.418	148.124176	-4.634111	105.783485
08:54:46.786	08:54:46.780	0	SSR	35000	TRUE	-58.77	-108.37	-----	-----	-4.626118	105.766487
08:54:50.081	08:54:50.075	0	SSR	35000	TRUE	-58.51	-108.10	-----	-----	-4.621588	105.770927
08:54:52.980	08:54:52.976	0	SSR	35000	TRUE	-58.93	-107.57	-----	-----	-4.612527	105.763763
08:54:46.306	08:54:46.304	1	SSR	35000	TRUE	-58.77	-108.37	104.562	328.565735	-4.626118	105.766487
08:54:49.706	08:54:49.704	4	SSR	35000	TRUE	-58.51	-108.10	121.386	148.239090	-4.621588	105.770927
08:54:52.705	08:54:52.703	1	SSR	35000	TRUE	-58.93	-107.57	105.339	328.720032	-4.612527	105.763763
08:54:58.181	08:54:58.175	0	SSR	35000	TRUE	-58.27	-106.74	-----	-----	-4.598555	105.774971
08:54:59.382	08:54:59.377	0	SSR	35000	TRUE	-59.09	-106.80	-----	-----	-4.599459	105.761047
08:54:57.406	08:54:57.404	4	SSR	35000	TRUE	-58.27	-106.74	120.349	147.794678	-4.598555	105.774971
08:54:58.805	08:54:58.804	1	SSR	35000	TRUE	-59.09	-106.80	106.091	328.863434	-4.599459	105.761047
08:55:05.782	08:55:05.778	0	SSR	35000	TRUE	-59.47	-106.15	-----	-----	-4.588506	105.754700
08:55:05.980	08:55:05.976	0	SSR	35000	TRUE	-58.89	-106.00	-----	-----	-4.586026	105.764496
08:55:05.305	08:55:05.304	1	SSR	35000	TRUE	-59.47	-106.15	106.847	328.869690	-4.588506	105.754700
08:55:05.609	08:55:05.605	4	SSR	35000	TRUE	-58.89	-106.00	119.382	147.857849	-4.586026	105.764496
08:55:11.706	08:55:11.704	1	SSR	35000	TRUE	-59.79	-105.44	107.624	328.921600	-4.576500	105.749397
08:55:11.979	08:55:11.975	0	SSR	35000	TRUE	-59.79	-105.44	-----	-----	-4.576500	105.749397
08:55:14.081	08:55:14.076	0	SSR	35000	TRUE	-59.02	-105.01	-----	-----	-4.569288	105.762329
08:55:13.709	08:55:13.704	4	SSR	35000	TRUE	-59.02	-105.01	118.468	147.652832	-4.569288	105.762329
08:55:21.808	08:55:21.804	4	SSR	35000	TRUE	-60.01	-104.52	117.514	147.935471	-4.560959	105.745628
08:55:22.181	08:55:22.175	0	SSR	35000	TRUE	-60.01	-104.52	-----	-----	-4.560959	105.745628
08:55:30.178	08:55:30.174	0	SSR	35000	TRUE	-60.39	-103.53	-----	-----	-4.544232	105.739296

I-33

08:55:30.981	08:55:30.978	0	SSR	35000	TRUE	-60.76	-103.34	-----	-----	-4.541010	105.732948
08:55:29.909	08:55:29.904	4	SSR	35000	TRUE	-60.39	-103.53	116.467	147.831970	-4.544232	105.739296
08:55:30.510	08:55:30.508	1	SSR	35000	TRUE	-60.76	-103.34	109.947	329.050262	-4.541010	105.732948
08:55:37.179	08:55:37.175	0	SSR	35000	TRUE	-60.83	-102.48	-----	-----	-4.526364	105.731789
08:55:38.379	08:55:38.375	0	SSR	35000	TRUE	-60.64	-102.55	-----	-----	-4.527500	105.735046
08:55:36.846	08:55:36.843	1	SSR	35000	TRUE	-60.83	-102.48	110.733	329.251923	-4.526364	105.731789
08:55:37.995	08:55:37.993	4	SSR	35000	TRUE	-60.64	-102.55	115.487	147.674072	-4.527500	105.735046
08:55:43.578	08:55:43.575	0	SSR	35000	TRUE	-61.09	-101.74	-----	-----	-4.513830	105.727509
08:55:43.244	08:55:43.242	1	SSR	35000	TRUE	-61.09	-101.74	111.507	329.334991	-4.513830	105.727509
08:55:49.548	08:55:49.546	1	SSR	35000	TRUE	-61.40	-101.03	112.286	329.381439	-4.501824	105.722206
08:55:49.981	08:55:49.975	0	SSR	35000	TRUE	-61.40	-101.03	-----	-----	-4.501824	105.722206
08:55:56.379	08:55:56.375	0	SSR	35000	TRUE	-61.66	-100.29	-----	-----	-4.489290	105.717934
08:55:55.846	08:55:55.842	1	SSR	35000	TRUE	-61.66	-100.29	113.060	329.462616	-4.489290	105.717934
08:56:02.579	08:56:02.576	0	SSR	35000	TRUE	-62.00	-99.61	-----	-----	-4.477812	105.712112
08:56:02.248	08:56:02.246	1	SSR	35000	TRUE	-62.00	-99.61	113.828	329.485992	-4.477812	105.712112
08:56:08.446	08:56:08.442	1	SSR	35000	TRUE	-62.29	-98.90	114.591	329.543976	-4.465805	105.707321
08:56:09.945	08:56:09.943	4	SSR	35000	TRUE	-61.28	-98.47	111.675	146.818481	-4.458458	105.724281
08:56:08.980	08:56:08.975	0	SSR	35000	TRUE	-62.29	-98.90	-----	-----	-4.465805	105.707321
08:56:10.379	08:56:10.373	0	SSR	35000	TRUE	-61.28	-98.47	-----	-----	-4.458458	105.724281
08:56:15.179	08:56:15.176	0	SSR	35000	TRUE	-62.51	-98.13	-----	-----	-4.452744	105.703568
08:56:14.743	08:56:14.741	1	SSR	35000	TRUE	-62.51	-98.13	115.377	329.643524	-4.452744	105.703568
08:56:18.143	08:56:18.141	4	SSR	35000	TRUE	-62.40	-97.98	110.645	147.165817	-4.450132	105.705490
08:56:18.478	08:56:18.474	0	SSR	35000	TRUE	-62.40	-97.98	-----	-----	-4.450132	105.705490
08:56:21.477	08:56:21.473	0	SSR	35000	TRUE	-62.70	-97.36	-----	-----	-4.439680	105.700333
08:56:26.176	08:56:26.173	0	SSR	35000	TRUE	-62.90	-97.24	-----	-----	-4.437593	105.697098
08:56:20.942	08:56:20.941	1	SSR	35000	TRUE	-62.70	-97.36	116.148	329.755249	-4.439680	105.700333
08:56:25.742	08:56:25.741	4	SSR	35000	TRUE	-62.90	-97.24	109.744	147.174011	-4.437593	105.697098
08:56:27.342	08:56:27.341	1	SSR	35000	TRUE	-63.02	-96.65	116.927	329.796997	-4.427676	105.695030
08:56:27.676	08:56:27.673	0	SSR	35000	TRUE	-63.02	-96.65	-----	-----	-4.427676	105.695030
08:56:34.076	08:56:34.072	0	SSR	35000	TRUE	-63.34	-95.94	-----	-----	-4.415672	105.689720
08:56:34.276	08:56:34.273	0	SSR	35000	TRUE	-63.03	-96.13	-----	-----	-4.418761	105.694916
08:56:33.543	08:56:33.540	1	SSR	35000	TRUE	-63.34	-95.94	117.707	329.838226	-4.415672	105.689720
08:56:33.842	08:56:33.841	4	SSR	35000	TRUE	-63.03	-96.13	108.730	146.909439	-4.418761	105.694916
08:56:40.278	08:56:40.273	0	SSR	35000	TRUE	-63.62	-95.23	-----	-----	-4.403664	105.684937
08:56:42.377	08:56:42.372	0	SSR	35000	TRUE	-63.53	-95.26	-----	-----	-4.404129	105.686516
08:56:39.942	08:56:39.941	1	SSR	35000	TRUE	-63.62	-95.23	118.470	329.892151	-4.403664	105.684937
08:56:41.944	08:56:41.942	4	SSR	35000	TRUE	-63.53	-95.26	107.724	146.879379	-4.404129	105.686516
08:56:46.342	08:56:46.340	1	SSR	0	FALSE	-63.93	-94.37	119.150	329.970978	-4.388960	105.679649
08:56:46.677	08:56:46.675	0	SSR	0	FALSE	-63.84	-94.46	-----	-----	-4.390604	105.681183
08:56:50.478	08:56:50.473	0	SSR	35000	TRUE	-63.78	-94.27	-----	-----	-4.387395	105.682259
08:56:50.042	08:56:50.040	4	SSR	35000	TRUE	-63.78	-94.27	106.750	146.700073	-4.387395	105.682259
08:56:58.576	08:56:58.572	0	SSR	35000	TRUE	-64.03	-93.29	-----	-----	-4.370660	105.678017
08:56:57.744	08:56:57.740	4	SSR	35000	TRUE	-64.03	-93.29	105.776	146.517151	-4.370660	105.678017

I-34

08:57:06.275	08:57:06.271	0	SSR	35000	TRUE	-64.90	-92.67	-----	-----	-4.360227	105.663383
08:57:05.942	08:57:05.940	4	SSR	35000	TRUE	-64.90	-92.67	104.774	146.729111	-4.360227	105.663383
08:57:14.373	08:57:14.371	0	SSR	35000	TRUE	-65.28	-91.81	-----	-----	-4.345590	105.657059
08:57:18.377	08:57:18.374	0	SSR	35000	TRUE	-65.42	-91.04	-----	-----	-4.332678	105.654671
08:57:14.044	08:57:14.040	4	SSR	35000	TRUE	-65.28	-91.81	103.836	146.638611	-4.345590	105.657059
08:57:17.745	08:57:17.740	1	SSR	35000	TRUE	-65.42	-91.04	123.047	330.148651	-4.332678	105.654671
08:57:22.042	08:57:22.040	4	SSR	35000	TRUE	-65.28	-90.69	102.897	146.295441	-4.326751	105.656960
08:57:22.475	08:57:22.471	0	SSR	35000	TRUE	-65.28	-90.69	-----	-----	-4.326751	105.656960
08:57:24.375	08:57:24.371	0	SSR	35000	TRUE	-65.61	-90.30	-----	-----	-4.320138	105.651451
08:57:30.575	08:57:30.570	0	SSR	35000	TRUE	-65.66	-89.83	-----	-----	-4.312114	105.650635
08:57:24.145	08:57:24.141	1	SSR	35000	TRUE	-65.61	-90.30	123.793	330.243164	-4.320138	105.651451
08:57:30.142	08:57:30.140	4	SSR	35000	TRUE	-65.66	-89.83	101.961	146.199371	-4.312114	105.650635
08:57:30.544	08:57:30.540	1	SSR	35000	TRUE	-65.83	-89.56	124.554	330.324097	-4.307603	105.647705
08:57:30.873	08:57:30.870	0	SSR	35000	TRUE	-65.83	-89.56	-----	-----	-4.307603	105.647705
08:57:37.273	08:57:37.270	0	SSR	35000	TRUE	-66.15	-88.85	-----	-----	-4.295599	105.642403
08:57:38.673	08:57:38.669	0	SSR	35000	TRUE	-67.39	-89.71	-----	-----	-4.310081	105.621475
08:57:36.741	08:57:36.739	1	SSR	35000	TRUE	-66.15	-88.85	125.334	330.359467	-4.295599	105.642403
08:57:37.841	08:57:37.839	4	SSR	35000	TRUE	-67.39	-89.71	100.896	146.987320	-4.310081	105.621475
08:57:43.143	08:57:43.142	1	SSR	35000	TRUE	-66.59	-88.18	126.148	330.337860	-4.284132	105.635017
08:57:43.475	08:57:43.471	0	SSR	35000	TRUE	-66.59	-88.18	-----	-----	-4.284132	105.635017
08:57:49.876	08:57:49.872	0	SSR	35000	TRUE	-66.81	-87.44	-----	-----	-4.271595	105.631271
08:57:49.541	08:57:49.539	1	SSR	35000	TRUE	-66.81	-87.44	126.909	330.416687	-4.271595	105.631271
08:57:54.040	08:57:54.039	4	SSR	35000	TRUE	-67.16	-87.36	99.049	146.120178	-4.270301	105.625435
08:57:55.740	08:57:55.739	1	SSR	35000	TRUE	-67.03	-86.70	127.671	330.494568	-4.259060	105.627533
08:57:54.480	08:57:54.470	0	SSR	35000	TRUE	-67.16	-87.36	-----	-----	-4.270301	105.625435
08:57:56.075	08:57:56.070	0	SSR	35000	TRUE	-67.03	-86.70	-----	-----	-4.259060	105.627533
08:58:02.479	08:58:02.475	0	SSR	35000	TRUE	-67.26	-85.96	-----	-----	-4.246524	105.623779
08:58:02.572	08:58:02.569	0	SSR	35000	TRUE	-67.16	-86.25	-----	-----	-4.251464	105.625336
08:58:02.142	08:58:02.140	1	SSR	35000	TRUE	-67.26	-85.96	128.433	330.571381	-4.246524	105.623779
08:58:02.142	08:58:02.140	4	SSR	35000	TRUE	-67.16	-86.25	98.115	145.755508	-4.251464	105.625336
08:58:08.778	08:58:08.773	0	SSR	35000	TRUE	-67.48	-85.19	-----	-----	-4.233464	105.620033
08:58:10.673	08:58:10.669	0	SSR	35000	TRUE	-66.80	-84.76	-----	-----	-4.226335	105.631447
08:58:14.972	08:58:14.969	0	SSR	35000	TRUE	-67.64	-84.41	-----	-----	-4.220399	105.617325
08:58:08.340	08:58:08.339	1	SSR	35000	TRUE	-67.48	-85.19	129.223	330.654022	-4.233464	105.620033
08:58:10.343	08:58:10.339	4	SSR	35000	TRUE	-66.80	-84.76	97.090	145.075989	-4.226335	105.631447
08:58:14.740	08:58:14.738	1	SSR	35000	TRUE	-67.64	-84.41	129.983	330.759857	-4.220399	105.617325
08:58:17.941	08:58:17.939	4	SSR	35000	TRUE	-67.30	-84.02	96.189	145.065826	-4.213792	105.623047
08:58:18.785	08:58:18.779	0	SSR	35000	TRUE	-67.30	-84.02	-----	-----	-4.213792	105.623047
08:58:21.373	08:58:21.369	0	SSR	35000	TRUE	-67.83	-83.67	-----	-----	-4.207860	105.614105
08:58:26.474	08:58:26.469	0	SSR	35000	TRUE	-67.56	-83.03	-----	-----	-4.197054	105.618797
08:58:27.571	08:58:27.568	0	SSR	35000	TRUE	-68.03	-82.93	-----	-----	-4.195321	105.610878
08:58:20.940	08:58:20.939	1	SSR	35000	TRUE	-67.83	-83.67	130.731	330.845886	-4.207860	105.614105
08:58:26.041	08:58:26.039	4	SSR	35000	TRUE	-67.56	-83.03	95.225	144.846146	-4.197054	105.618797

I-35

08:58:27.340	08:58:27.339	1	SSR	35000	TRUE	-68.03	-82.93	131.479	330.930939	-4.195321	105.610878
08:58:33.975	08:58:33.970	0	SSR	35000	TRUE	-68.13	-82.13	-----	-----	-4.181725	105.609215
08:58:34.673	08:58:34.669	0	SSR	35000	TRUE	-68.18	-82.42	-----	-----	-4.186608	105.608330
08:58:33.439	08:58:33.438	1	SSR	35000	TRUE	-68.13	-82.13	132.238	331.063690	-4.181725	105.609215
08:58:34.140	08:58:34.138	4	SSR	35000	TRUE	-68.18	-82.42	94.355	144.939224	-4.186608	105.608330
08:58:42.870	08:58:42.868	0	SSR	35000	TRUE	-68.06	-81.18	-----	-----	-4.165673	105.610298
08:58:50.772	08:58:50.768	0	SSR	35000	TRUE	-68.56	-80.44	-----	-----	-4.153128	105.601906
08:58:42.345	08:58:42.340	4	SSR	35000	TRUE	-68.06	-81.18	93.405	144.437546	-4.165673	105.610298
08:58:50.442	08:58:50.438	4	SSR	35000	TRUE	-68.56	-80.44	92.504	144.420761	-4.153128	105.601906
08:58:58.871	08:58:58.867	0	SSR	35000	TRUE	-68.82	-79.45	-----	-----	-4.136390	105.597649
08:58:58.039	08:58:58.037	4	SSR	35000	TRUE	-68.82	-79.45	91.545	144.185410	-4.136390	105.597649
08:59:06.670	08:59:06.667	0	SSR	35000	TRUE	-68.82	-78.34	-----	-----	-4.117553	105.597542
08:59:14.671	08:59:14.667	0	SSR	35000	TRUE	-69.94	-77.97	-----	-----	-4.111302	105.578773
08:59:06.245	08:59:06.241	4	SSR	35000	TRUE	-68.82	-78.34	90.633	143.770920	-4.117553	105.597542
08:59:14.341	08:59:14.337	4	SSR	35000	TRUE	-69.94	-77.97	89.671	144.210663	-4.111302	105.578773
08:59:22.772	08:59:22.769	0	SSR	35000	TRUE	-70.19	-76.98	-----	-----	-4.094563	105.574516
08:59:22.339	08:59:22.336	4	SSR	35000	TRUE	-70.19	-76.98	88.713	143.965561	-4.094563	105.574516
08:59:30.871	08:59:30.866	0	SSR	35000	TRUE	-70.44	-76.00	-----	-----	-4.077825	105.570259
08:59:38.970	08:59:38.966	0	SSR	35000	TRUE	-70.82	-75.13	-----	-----	-4.063180	105.563927
08:59:30.541	08:59:30.537	4	SSR	35000	TRUE	-70.44	-76.00	87.757	143.715027	-4.077825	105.570259
08:59:38.138	08:59:38.136	4	SSR	35000	TRUE	-70.82	-75.13	86.830	143.574493	-4.063180	105.563927
08:59:43.070	08:59:43.066	0	SSR	35000	TRUE	-70.88	-74.24	-----	-----	-4.048052	105.562866
08:59:46.671	08:59:46.667	0	SSR	35000	TRUE	-71.20	-74.27	-----	-----	-4.048536	105.557602
08:59:42.840	08:59:42.837	1	SSR	35000	TRUE	-70.88	-74.24	140.574	331.641907	-4.048052	105.562866
08:59:46.341	08:59:46.337	4	SSR	35000	TRUE	-71.20	-74.27	85.903	143.430664	-4.048536	105.557602
08:59:49.038	08:59:49.036	1	SSR	35000	TRUE	-71.23	-73.56	141.343	331.648834	-4.036577	105.557053
08:59:49.572	08:59:49.569	0	SSR	35000	TRUE	-71.23	-73.56	-----	-----	-4.036577	105.557053
08:59:54.771	08:59:54.767	0	SSR	35000	TRUE	-71.21	-73.03	-----	-----	-4.027606	105.557480
08:59:55.872	08:59:55.867	0	SSR	35000	TRUE	-71.55	-72.85	-----	-----	-4.024574	105.551750
09:00:02.072	09:00:02.067	0	SSR	35000	TRUE	-71.74	-72.08	-----	-----	-4.011513	105.548523
09:00:02.875	09:00:02.867	0	SSR	35000	TRUE	-71.70	-72.29	-----	-----	-4.015056	105.549088
08:59:54.317	08:59:54.316	4	SSR	35000	TRUE	-71.21	-73.03	84.900	142.929947	-4.027606	105.557480
08:59:55.318	08:59:55.316	1	SSR	35000	TRUE	-71.55	-72.85	142.125	331.672821	-4.024574	105.551750
09:00:01.818	09:00:01.816	1	SSR	35000	TRUE	-71.74	-72.08	142.903	331.752563	-4.011513	105.548523
09:00:02.518	09:00:02.516	4	SSR	35000	TRUE	-71.70	-72.29	84.000	142.895172	-4.015056	105.549088
09:00:08.270	09:00:08.266	0	SSR	35000	TRUE	-71.96	-71.34	-----	-----	-3.998977	105.544792
09:00:11.081	09:00:11.076	0	SSR	35000	TRUE	-71.96	-71.30	-----	-----	-3.998317	105.544823
09:00:14.772	09:00:14.768	0	SSR	35000	TRUE	-72.15	-70.60	-----	-----	-3.986439	105.541565
09:00:08.017	09:00:08.015	1	SSR	35000	TRUE	-71.96	-71.34	143.669	331.814728	-3.998977	105.544792
09:00:10.617	09:00:10.615	4	SSR	35000	TRUE	-71.96	-71.30	83.052	142.618240	-3.998317	105.544823
09:00:14.417	09:00:14.415	1	SSR	35000	TRUE	-72.15	-70.60	144.420	331.887024	-3.986439	105.541565
09:00:18.317	09:00:18.315	4	SSR	35000	TRUE	-71.97	-70.19	82.159	142.143539	-3.979479	105.544716
09:00:19.120	09:00:19.114	0	SSR	35000	TRUE	-71.97	-70.19	-----	-----	-3.979479	105.544716

I-36

09:00:20.821	09:00:20.816	0	SSR	35000	TRUE	-72.62	-69.95	-----	-----	-3.975499	105.533676
09:00:27.275	09:00:27.265	0	SSR	35000	TRUE	-72.84	-69.21	-----	-----	-3.962964	105.529938
09:00:27.275	09:00:27.265	0	SSR	35000	TRUE	-72.47	-69.20	-----	-----	-3.962743	105.536285
09:00:20.517	09:00:20.515	1	SSR	35000	TRUE	-72.62	-69.95	145.219	331.843201	-3.975499	105.533676
09:00:26.417	09:00:26.415	4	SSR	35000	TRUE	-72.47	-69.20	81.062	141.990967	-3.962743	105.536285
09:00:26.916	09:00:26.915	1	SSR	35000	TRUE	-72.84	-69.21	145.985	331.903717	-3.962964	105.529938
09:00:33.618	09:00:33.614	0	SSR	0	FALSE	-73.10	-68.51	-----	-----	-3.950955	105.525681
09:00:34.918	09:00:34.914	0	SSR	35000	TRUE	-73.34	-68.71	-----	-----	-3.954384	105.521660
09:00:39.839	09:00:39.836	0	SSR	35000	TRUE	-73.44	-67.83	-----	-----	-3.939479	105.519867
09:00:33.139	09:00:33.135	1	SSR	0	FALSE	-73.21	-68.39	146.662	331.929596	-3.948939	105.523773
09:00:34.539	09:00:34.535	4	SSR	35000	TRUE	-73.34	-68.71	80.131	142.265610	-3.954384	105.521660
09:00:39.539	09:00:39.536	1	SSR	35000	TRUE	-73.44	-67.83	147.506	331.952423	-3.939479	105.519867
09:00:42.640	09:00:42.635	4	SSR	35000	TRUE	-73.34	-67.47	79.144	141.713547	-3.933453	105.521538
09:00:43.020	09:00:43.016	0	SSR	35000	TRUE	-73.34	-67.47	-----	-----	-3.933453	105.521538
09:00:46.019	09:00:46.014	0	SSR	35000	TRUE	-73.76	-67.12	-----	-----	-3.927478	105.514565
09:00:51.118	09:00:51.113	0	SSR	35000	TRUE	-73.84	-66.73	-----	-----	-3.920901	105.513138
09:00:52.428	09:00:52.424	0	SSR	35000	TRUE	-74.04	-66.38	-----	-----	-3.914949	105.509789
09:00:45.736	09:00:45.735	1	SSR	35000	TRUE	-73.76	-67.12	148.288	331.973724	-3.927478	105.514565
09:00:50.739	09:00:50.735	4	SSR	35000	TRUE	-73.84	-66.73	78.246	141.662323	-3.920901	105.513138
09:00:51.939	09:00:51.935	1	SSR	35000	TRUE	-74.04	-66.38	149.083	332.011078	-3.914949	105.509789
09:00:59.217	09:00:59.213	0	SSR	35000	TRUE	-74.22	-65.87	-----	-----	-3.906253	105.506798
09:00:58.839	09:00:58.835	4	SSR	35000	TRUE	-74.22	-65.87	77.326	141.480026	-3.906253	105.506798
09:01:06.538	09:01:06.534	4	SSR	35000	TRUE	-74.48	-64.75	76.291	141.102631	-3.887419	105.502525
09:01:07.418	09:01:07.413	0	SSR	35000	TRUE	-74.48	-64.75	-----	-----	-3.887419	105.502525
09:01:15.115	09:01:15.112	0	SSR	35000	TRUE	-74.85	-63.89	-----	-----	-3.872771	105.496185
09:01:14.638	09:01:14.634	4	SSR	35000	TRUE	-74.85	-63.89	75.374	140.908752	-3.872771	105.496185
09:01:23.215	09:01:23.212	0	SSR	35000	TRUE	-75.23	-63.02	-----	-----	-3.858123	105.489853
09:01:31.316	09:01:31.312	0	SSR	35000	TRUE	-75.48	-62.04	-----	-----	-3.841380	105.485580
09:01:22.738	09:01:22.734	4	SSR	35000	TRUE	-75.23	-63.02	74.459	140.709763	-3.858123	105.489853
09:01:30.837	09:01:30.834	4	SSR	35000	TRUE	-75.48	-62.04	73.526	140.369202	-3.841380	105.485580
09:01:39.316	09:01:39.312	0	SSR	35000	TRUE	-76.23	-61.42	-----	-----	-3.830919	105.473022
09:01:38.938	09:01:38.934	4	SSR	35000	TRUE	-76.23	-61.42	72.567	140.512421	-3.830919	105.473022
09:01:47.515	09:01:47.512	0	SSR	35000	TRUE	-76.36	-60.31	-----	-----	-3.812082	105.470818
09:01:47.036	09:01:47.034	4	SSR	35000	TRUE	-76.36	-60.31	71.621	140.019363	-3.812082	105.470818
09:01:54.738	09:01:54.734	4	SSR	35000	TRUE	-76.62	-59.19	70.599	139.590134	-3.793246	105.466537
09:01:55.617	09:01:55.611	0	SSR	35000	TRUE	-76.62	-59.19	-----	-----	-3.793246	105.466537
09:02:03.315	09:02:03.312	0	SSR	35000	TRUE	-77.24	-58.58	-----	-----	-3.782782	105.456062
09:02:02.838	09:02:02.834	4	SSR	35000	TRUE	-77.24	-58.58	69.718	139.650223	-3.782782	105.456062
09:02:11.415	09:02:11.412	0	SSR	35000	TRUE	-77.74	-57.71	-----	-----	-3.768130	105.447632
09:02:10.937	09:02:10.933	4	SSR	35000	TRUE	-77.74	-57.71	68.727	139.497894	-3.768130	105.447632
09:02:19.035	09:02:19.033	4	SSR	35000	TRUE	-77.75	-56.48	67.779	138.813644	-3.747201	105.447487
09:02:20.238	09:02:20.235	1	SSR	35000	TRUE	-78.27	-56.46	159.946	332.344208	-3.746901	105.438774
09:02:19.515	09:02:19.511	0	SSR	35000	TRUE	-77.75	-56.48	-----	-----	-3.747201	105.447487

I-37

09:02:20.515	09:02:20.511	0	SSR	35000	TRUE	-78.27	-56.46	-----	-----	-3.746901	105.438774
09:02:26.915	09:02:26.911	0	SSR	35000	TRUE	-78.52	-55.69	-----	-----	-3.733846	105.434509
09:02:27.617	09:02:27.611	0	SSR	35000	TRUE	-78.25	-55.74	-----	-----	-3.734642	105.439079
09:02:26.634	09:02:26.632	1	SSR	35000	TRUE	-78.52	-55.69	160.755	332.391968	-3.733846	105.434509
09:02:27.134	09:02:27.132	4	SSR	35000	TRUE	-78.25	-55.74	66.885	138.714752	-3.734642	105.439079
09:02:32.833	09:02:32.832	1	SSR	35000	TRUE	-78.75	-54.92	161.550	332.449127	-3.720788	105.430771
09:02:33.115	09:02:33.111	0	SSR	35000	TRUE	-78.75	-54.92	-----	-----	-3.720788	105.430771
09:02:35.214	09:02:35.210	0	SSR	35000	TRUE	-78.75	-54.87	-----	-----	-3.719989	105.430649
09:02:39.515	09:02:39.510	0	SSR	35000	TRUE	-79.18	-54.27	-----	-----	-3.709846	105.423401
09:02:34.834	09:02:34.832	4	SSR	35000	TRUE	-78.75	-54.87	65.898	138.541656	-3.719989	105.430649
09:02:39.234	09:02:39.232	1	SSR	35000	TRUE	-79.18	-54.27	162.334	332.416931	-3.709846	105.423401
09:02:42.933	09:02:42.931	4	SSR	35000	TRUE	-79.13	-54.01	64.994	138.280884	-3.705336	105.424301
09:02:45.333	09:02:45.331	1	SSR	35000	TRUE	-79.53	-53.59	163.102	332.419464	-3.698370	105.417595
09:02:43.317	09:02:43.314	0	SSR	35000	TRUE	-79.13	-54.01	-----	-----	-3.705336	105.424301
09:02:45.914	09:02:45.910	0	SSR	35000	TRUE	-79.53	-53.59	-----	-----	-3.698370	105.417595
09:02:51.415	09:02:51.411	0	SSR	35000	TRUE	-79.51	-53.14	-----	-----	-3.690683	105.417946
09:02:52.115	09:02:52.112	0	SSR	35000	TRUE	-79.84	-52.92	-----	-----	-3.686891	105.412300
09:02:51.058	09:02:51.043	4	SSR	35000	TRUE	-79.51	-53.14	64.091	138.012772	-3.690683	105.417946
09:02:51.847	09:02:51.843	1	SSR	35000	TRUE	-79.84	-52.92	163.857	332.431519	-3.686891	105.412300
09:02:58.043	09:02:58.041	1	SSR	35000	TRUE	-79.79	-52.05	164.608	332.589630	-3.672235	105.413231
09:02:59.143	09:02:59.141	4	SSR	35000	TRUE	-79.64	-52.03	63.173	137.416611	-3.671848	105.415726
09:02:58.516	09:02:58.511	0	SSR	35000	TRUE	-79.79	-52.05	-----	-----	-3.672235	105.413231
09:02:59.512	09:02:59.509	0	SSR	35000	TRUE	-79.64	-52.03	-----	-----	-3.671848	105.415726
09:03:04.715	09:03:04.712	0	SSR	35000	TRUE	-79.92	-51.28	-----	-----	-3.659167	105.411049
09:03:07.613	09:03:07.609	0	SSR	35000	TRUE	-79.77	-51.04	-----	-----	-3.655106	105.413521
09:03:04.443	09:03:04.441	1	SSR	35000	TRUE	-79.92	-51.28	165.361	332.673370	-3.659167	105.411049
09:03:06.843	09:03:06.842	4	SSR	35000	TRUE	-79.77	-51.04	62.353	136.881256	-3.655106	105.413521
09:03:10.643	09:03:10.641	1	SSR	35000	TRUE	-80.11	-50.54	166.115	332.732513	-3.646629	105.407837
09:03:11.116	09:03:11.111	0	SSR	35000	TRUE	-80.11	-50.54	-----	-----	-3.646629	105.407837
09:03:15.313	09:03:15.309	0	SSR	35000	TRUE	-80.28	-50.17	-----	-----	-3.640450	105.405075
09:03:23.514	09:03:23.509	0	SSR	35000	TRUE	-80.65	-49.43	-----	-----	-3.627889	105.398743
09:03:14.943	09:03:14.941	4	SSR	35000	TRUE	-80.28	-50.17	61.372	136.666229	-3.640450	105.405075
09:03:23.042	09:03:23.041	4	SSR	35000	TRUE	-80.65	-49.43	60.569	136.439194	-3.627889	105.398743
09:03:31.612	09:03:31.609	0	SSR	35000	TRUE	-80.91	-48.32	-----	-----	-3.609055	105.394432
09:03:31.101	09:03:31.099	4	SSR	35000	TRUE	-80.91	-48.32	59.583	135.870377	-3.609055	105.394432
09:03:39.711	09:03:39.708	0	SSR	35000	TRUE	-81.29	-47.46	-----	-----	-3.594400	105.388062
09:03:47.410	09:03:47.407	0	SSR	35000	TRUE	-81.42	-46.47	-----	-----	-3.577662	105.385841
09:03:38.832	09:03:38.831	4	SSR	35000	TRUE	-81.29	-47.46	58.694	135.540741	-3.594400	105.388062
09:03:46.931	09:03:46.930	4	SSR	35000	TRUE	-81.42	-46.47	57.894	134.937973	-3.577662	105.385841
09:03:55.510	09:03:55.507	0	SSR	35000	TRUE	-82.05	-45.60	-----	-----	-3.563000	105.375313
09:04:01.410	09:04:01.407	0	SSR	35000	TRUE	-81.65	-44.40	-----	-----	-3.542662	105.382080
09:04:03.611	09:04:03.607	0	SSR	35000	TRUE	-82.30	-44.74	-----	-----	-3.548351	105.371025
09:03:55.033	09:03:55.031	4	SSR	35000	TRUE	-82.05	-45.60	56.834	134.761383	-3.563000	105.375313

I-28

09:04:01.132	09:04:01.130	1	SSR	35000	TRUE	-81.65	-44.40	172.350	333.218292	-3.542662	105.382080
09:04:03.131	09:04:03.130	4	SSR	35000	TRUE	-82.30	-44.74	56.041	134.308395	-3.548351	105.371025
09:04:11.110	09:04:11.109	4	SSR	35000	TRUE	-79.63	-40.29	55.092	128.956833	-3.473189	105.416206
09:04:11.110	09:04:11.109	0	SSR	35000	TRUE	-79.63	-40.29	-----	-----	-3.473189	105.416206
09:04:19.812	09:04:19.809	0	SSR	35000	TRUE	-83.06	-42.88	-----	-----	-3.516952	105.358261
09:04:11.232	09:04:11.229	4	SSR	35000	TRUE	-79.63	-40.29	55.092	128.956833	-3.473189	105.416206
09:04:18.931	09:04:18.929	4	SSR	35000	TRUE	-83.06	-42.88	54.198	133.448730	-3.516952	105.358261
09:04:27.509	09:04:27.506	0	SSR	35000	TRUE	-83.44	-42.02	-----	-----	-3.502298	105.351875
09:04:27.031	09:04:27.029	4	SSR	35000	TRUE	-83.44	-42.02	53.325	133.045761	-3.502298	105.351875
09:04:35.130	09:04:35.128	4	SSR	35000	TRUE	-84.19	-41.40	52.350	133.108810	-3.491809	105.339287
09:04:35.608	09:04:35.605	0	SSR	35000	TRUE	-84.19	-41.40	-----	-----	-3.491809	105.339287
09:04:43.709	09:04:43.705	0	SSR	35000	TRUE	-84.21	-40.17	-----	-----	-3.470901	105.339096
09:04:43.220	09:04:43.218	4	SSR	35000	TRUE	-84.21	-40.17	51.502	132.096115	-3.470901	105.339096
09:04:51.320	09:04:51.318	4	SSR	35000	TRUE	-84.59	-39.30	50.637	131.648331	-3.456249	105.332703
09:04:51.811	09:04:51.806	0	SSR	35000	TRUE	-84.59	-39.30	-----	-----	-3.456249	105.332703
09:04:59.912	09:04:59.908	0	SSR	35000	TRUE	-84.97	-38.31	-----	-----	-3.439507	105.326294
09:05:04.407	09:05:04.404	0	SSR	35000	TRUE	-85.11	-37.53	-----	-----	-3.426336	105.323997
09:04:59.019	09:04:59.018	4	SSR	35000	TRUE	-84.97	-38.31	49.694	131.076935	-3.439507	105.326294
09:05:04.019	09:05:04.018	1	SSR	35000	TRUE	-85.11	-37.53	180.120	333.219421	-3.426336	105.323997
09:05:07.507	09:05:07.504	0	SSR	35000	TRUE	-85.23	-37.45	-----	-----	-3.424864	105.321976
09:05:10.812	09:05:10.809	0	SSR	35000	TRUE	-85.45	-36.86	-----	-----	-3.414860	105.318192
09:05:15.607	09:05:15.604	0	SSR	35000	TRUE	-85.61	-36.34	-----	-----	-3.406036	105.315536
09:05:17.008	09:05:17.005	0	SSR	35000	TRUE	-85.73	-36.15	-----	-----	-3.402855	105.313416
09:05:07.119	09:05:07.118	4	SSR	35000	TRUE	-85.23	-37.45	48.931	130.499390	-3.424864	105.321976
09:05:10.219	09:05:10.218	1	SSR	35000	TRUE	-85.45	-36.86	180.889	333.218201	-3.414860	105.318192
09:05:15.219	09:05:15.217	4	SSR	35000	TRUE	-85.61	-36.34	47.918	129.770706	-3.406036	105.315536
09:05:16.619	09:05:16.617	1	SSR	35000	TRUE	-85.73	-36.15	181.658	333.239014	-3.402855	105.313416
09:05:23.408	09:05:23.406	0	SSR	35000	TRUE	-86.11	-35.47	-----	-----	-3.391383	105.307091
09:05:23.808	09:05:23.805	0	SSR	35000	TRUE	-86.11	-35.72	-----	-----	-3.395556	105.307083
09:05:29.506	09:05:29.503	0	SSR	35000	TRUE	-86.40	-34.76	-----	-----	-3.379378	105.302322
09:05:22.819	09:05:22.818	1	SSR	35000	TRUE	-86.11	-35.47	182.441	333.228912	-3.391383	105.307091
09:05:23.319	09:05:23.318	4	SSR	35000	TRUE	-86.11	-35.72	47.134	129.578232	-3.395556	105.307083
09:05:29.319	09:05:29.317	1	SSR	35000	TRUE	-86.40	-34.76	183.210	333.249573	-3.379378	105.302322
09:05:31.431	09:05:31.428	4	SSR	35000	TRUE	-86.49	-34.73	46.209	128.921814	-3.378820	105.300652
09:05:31.808	09:05:31.804	0	SSR	35000	TRUE	-86.49	-34.73	-----	-----	-3.378820	105.300652
09:05:35.910	09:05:35.907	0	SSR	35000	TRUE	-86.62	-34.02	-----	-----	-3.366843	105.298592
09:05:39.508	09:05:39.505	0	SSR	35000	TRUE	-86.87	-33.99	-----	-----	-3.366261	105.294266
09:05:42.206	09:05:42.204	0	SSR	35000	TRUE	-87.09	-33.41	-----	-----	-3.356426	105.290710
09:05:35.428	09:05:35.427	1	SSR	35000	TRUE	-86.62	-34.02	183.979	333.291748	-3.366843	105.298592
09:05:39.028	09:05:39.027	4	SSR	35000	TRUE	-86.87	-33.99	45.447	128.485474	-3.366261	105.294266
09:05:41.931	09:05:41.928	1	SSR	35000	TRUE	-87.09	-33.41	184.747	333.246979	-3.356426	105.290710
09:05:47.606	09:05:47.603	0	SSR	35000	TRUE	-87.26	-33.00	-----	-----	-3.349529	105.287819
09:05:55.808	09:05:55.804	0	SSR	35000	TRUE	-87.64	-32.14	-----	-----	-3.334887	105.281395

I-39

09:05:47.229	09:05:47.227	4	SSR	35000	TRUE	-87.26	-33.00	44.533	127.781868	-3.349529	105.287819
09:05:55.339	09:05:55.337	4	SSR	35000	TRUE	-87.64	-32.14	43.702	127.179077	-3.334887	105.281395
09:06:03.806	09:06:03.803	0	SSR	35000	TRUE	-87.90	-31.15	-----	-----	-3.318171	105.277023
09:06:03.439	09:06:03.436	4	SSR	35000	TRUE	-87.90	-31.15	42.901	126.319611	-3.318171	105.277023
09:06:11.140	09:06:11.137	4	SSR	35000	TRUE	-88.29	-30.29	42.082	125.664871	-3.303534	105.270592
09:06:11.906	09:06:11.902	0	SSR	35000	TRUE	-88.29	-30.29	-----	-----	-3.303534	105.270592
09:06:19.706	09:06:19.701	0	SSR	35000	TRUE	-88.43	-29.05	-----	-----	-3.282671	105.268250
09:06:19.237	09:06:19.235	4	SSR	35000	TRUE	-88.43	-29.05	41.260	124.358788	-3.282671	105.268250
09:06:27.807	09:06:27.803	0	SSR	35000	TRUE	-88.81	-28.31	-----	-----	-3.270128	105.261826
09:06:32.704	09:06:32.701	0	SSR	35000	TRUE	-89.02	-27.52	-----	-----	-3.256685	105.258247
09:06:27.338	09:06:27.336	4	SSR	35000	TRUE	-88.81	-28.31	40.528	123.785637	-3.270128	105.261826
09:06:32.127	09:06:32.125	1	SSR	35000	TRUE	-89.02	-27.52	190.946	333.526123	-3.256685	105.258247
09:06:35.530	09:06:35.525	4	SSR	35000	TRUE	-89.31	-27.57	39.696	123.290329	-3.257573	105.253304
09:06:35.904	09:06:35.900	0	SSR	35000	TRUE	-89.31	-27.57	-----	-----	-3.257573	105.253304
09:06:39.110	09:06:39.107	0	SSR	35000	TRUE	-89.24	-26.78	-----	-----	-3.244149	105.254524
09:06:44.005	09:06:44.000	0	SSR	35000	TRUE	-89.58	-26.46	-----	-----	-3.238802	105.248878
09:06:38.629	09:06:38.627	1	SSR	35000	TRUE	-89.24	-26.78	191.716	333.565582	-3.244149	105.254524
09:06:43.127	09:06:43.125	4	SSR	35000	TRUE	-89.58	-26.46	38.876	122.109810	-3.238802	105.248878
09:06:51.804	09:06:51.801	0	SSR	35000	TRUE	-90.09	-25.60	-----	-----	-3.224174	105.240318
09:06:51.227	09:06:51.225	4	SSR	35000	TRUE	-90.09	-25.60	37.989	121.396164	-3.224174	105.240318
09:06:59.327	09:06:59.324	4	SSR	35000	TRUE	-90.35	-24.74	37.323	120.452248	-3.209581	105.235939
09:06:59.904	09:06:59.900	0	SSR	35000	TRUE	-90.35	-24.74	-----	-----	-3.209581	105.235939
09:07:07.528	09:07:07.525	4	SSR	35000	TRUE	-90.61	-23.76	36.606	119.304024	-3.192917	105.231522
09:07:08.003	09:07:08.000	0	SSR	35000	TRUE	-90.61	-23.76	-----	-----	-3.192917	105.231522
09:07:16.105	09:07:16.102	0	SSR	35000	TRUE	-91.00	-22.89	-----	-----	-3.178324	105.225037
09:07:15.126	09:07:15.125	4	SSR	35000	TRUE	-91.00	-22.89	35.854	118.381004	-3.178324	105.225037
09:07:23.219	09:07:23.211	4	SSR	35000	TRUE	-90.06	-18.98	35.050	111.841370	-3.112072	105.240936
09:07:23.219	09:07:23.211	0	SSR	35000	TRUE	-90.06	-18.98	-----	-----	-3.112072	105.240936
09:07:31.904	09:07:31.898	0	SSR	35000	TRUE	-91.65	-20.93	-----	-----	-3.145034	105.214073
09:07:23.230	09:07:23.228	4	SSR	35000	TRUE	-90.06	-18.98	35.050	111.841370	-3.112072	105.240936
09:07:31.291	09:07:31.288	4	SSR	35000	TRUE	-91.65	-20.93	34.381	115.949593	-3.145034	105.214073
09:07:39.901	09:07:39.898	0	SSR	35000	TRUE	-92.04	-19.95	-----	-----	-3.128401	105.207535
09:07:39.425	09:07:39.424	4	SSR	35000	TRUE	-92.04	-19.95	33.612	114.699776	-3.128401	105.207535
09:07:48.001	09:07:47.999	0	SSR	35000	TRUE	-92.43	-19.21	-----	-----	-3.115923	105.201050
09:07:47.025	09:07:47.023	4	SSR	35000	TRUE	-92.43	-19.21	32.961	113.790787	-3.115923	105.201050
09:07:55.703	09:07:55.699	0	SSR	35000	TRUE	-92.82	-18.23	-----	-----	-3.099317	105.194489
09:08:03.801	09:08:03.798	0	SSR	35000	TRUE	-93.21	-17.37	-----	-----	-3.084794	105.187958
09:07:55.264	09:07:55.224	4	SSR	35000	TRUE	-92.82	-18.23	32.221	112.436165	-3.099317	105.194489
09:08:03.324	09:08:03.322	4	SSR	35000	TRUE	-93.21	-17.37	31.546	111.230301	-3.084794	105.187958
09:08:12.000	09:08:11.998	0	SSR	35000	TRUE	-93.60	-16.52	-----	-----	-3.070287	105.181435
09:08:11.426	09:08:11.423	4	SSR	35000	TRUE	-93.60	-16.52	30.885	109.971985	-3.070287	105.181435
09:08:19.601	09:08:19.598	0	SSR	35000	TRUE	-93.86	-15.66	-----	-----	-3.055814	105.177002
09:08:19.125	09:08:19.124	4	SSR	35000	TRUE	-93.86	-15.66	30.358	108.583763	-3.055814	105.177002

CH-I

09:08:27.700	09:08:27.697	0	SSR	35000	TRUE	-94.25	-14.81	-----	-----	-3.041340	105.170456
09:08:27.224	09:08:27.223	4	SSR	35000	TRUE	-94.25	-14.81	29.730	107.218758	-3.041340	105.170456
09:08:35.325	09:08:35.322	4	SSR	35000	TRUE	-94.64	-13.71	29.053	105.321686	-3.022773	105.163857
09:08:35.899	09:08:35.896	0	SSR	35000	TRUE	-94.64	-13.71	-----	-----	-3.022773	105.163857
09:08:44.109	09:08:44.105	0	SSR	35000	TRUE	-94.91	-12.86	-----	-----	-3.008358	105.159431
09:08:42.923	09:08:42.922	4	SSR	35000	TRUE	-94.91	-12.86	28.589	103.765015	-3.008358	105.159431
09:08:51.699	09:08:51.696	0	SSR	35000	TRUE	-95.30	-12.01	-----	-----	-2.993950	105.152893
09:08:51.024	09:08:51.021	4	SSR	35000	TRUE	-95.30	-12.01	28.025	102.212578	-2.993950	105.152893
09:08:59.233	09:08:59.232	4	SSR	35000	TRUE	-95.69	-11.04	27.459	100.341667	-2.977517	105.146332
09:08:59.799	09:08:59.797	0	SSR	35000	TRUE	-95.69	-11.04	-----	-----	-2.977517	105.146332
09:09:07.999	09:09:07.996	0	SSR	35000	TRUE	-95.72	-7.78	-----	-----	-2.922275	105.145859
09:09:06.833	09:09:06.832	4	SSR	35000	TRUE	-95.72	-7.78	27.049	93.294350	-2.922275	105.145859
09:09:15.598	09:09:15.595	0	SSR	35000	TRUE	-96.23	-6.93	-----	-----	-2.907981	105.137260
09:09:14.933	09:09:14.932	4	SSR	35000	TRUE	-96.23	-6.93	26.511	91.471275	-2.907981	105.137260
09:09:23.698	09:09:23.695	0	SSR	35000	TRUE	-96.62	-5.97	-----	-----	-2.891668	105.130814
09:09:23.133	09:09:23.131	4	SSR	35000	TRUE	-96.62	-5.97	26.126	89.301765	-2.891668	105.130814
09:09:31.233	09:09:31.231	4	SSR	35000	TRUE	-97.00	-5.13	25.774	87.348427	-2.877417	105.124382
09:09:31.798	09:09:31.796	0	SSR	35000	TRUE	-97.00	-5.13	-----	-----	-2.877417	105.124382
09:09:39.497	09:09:39.495	0	SSR	35000	TRUE	-97.51	-4.29	-----	-----	-2.863199	105.115852
09:09:38.922	09:09:38.921	4	SSR	35000	TRUE	-97.51	-4.29	25.329	85.321243	-2.863199	105.115852
09:09:47.607	09:09:47.604	0	SSR	35000	TRUE	-97.89	-3.33	-----	-----	-2.846951	105.109482
09:09:47.033	09:09:47.032	4	SSR	35000	TRUE	-97.89	-3.33	25.055	82.973145	-2.846951	105.109482
09:09:55.132	09:09:55.131	4	SSR	35000	TRUE	-98.39	-2.62	24.662	81.103851	-2.834815	105.100998
09:09:55.708	09:09:55.703	0	SSR	35000	TRUE	-98.39	-2.62	-----	-----	-2.834815	105.100998
09:10:03.807	09:10:03.805	0	SSR	35000	TRUE	-98.89	-1.54	-----	-----	-2.816589	105.092575
09:10:03.232	09:10:03.231	4	SSR	35000	TRUE	-98.89	-1.54	24.367	78.309425	-2.816589	105.092575
09:10:11.506	09:10:11.502	0	SSR	35000	TRUE	-99.27	-0.82	-----	-----	-2.804457	105.086296
09:10:10.932	09:10:10.930	4	SSR	35000	TRUE	-99.27	-0.82	24.164	76.388908	-2.804457	105.086296
09:10:19.605	09:10:19.603	0	SSR	35000	TRUE	-99.64	0.13	-----	-----	-2.788251	105.080078
09:10:19.031	09:10:19.030	4	SSR	35000	TRUE	-99.64	0.13	24.055	73.863564	-2.788251	105.080078
09:10:26.632	09:10:26.629	4	SSR	35000	TRUE	-100.13	1.09	23.875	71.225357	-2.772084	105.071785
09:10:27.695	09:10:27.693	0	SSR	35000	TRUE	-100.13	1.09	-----	-----	-2.772084	105.071785
09:10:35.395	09:10:35.392	0	SSR	35000	TRUE	-100.50	1.92	-----	-----	-2.757911	105.065636
09:10:34.721	09:10:34.718	4	SSR	35000	TRUE	-100.50	1.92	23.818	68.941788	-2.757911	105.065636
09:10:43.495	09:10:43.492	0	SSR	35000	TRUE	-100.99	2.76	-----	-----	-2.743779	105.057396
09:10:42.920	09:10:42.919	4	SSR	35000	TRUE	-100.99	2.76	23.684	66.532166	-2.743779	105.057396
09:10:50.521	09:10:50.519	4	SSR	35000	TRUE	-101.48	3.71	23.647	63.826286	-2.727586	105.049240
09:10:51.594	09:10:51.591	0	SSR	35000	TRUE	-101.48	3.71	-----	-----	-2.727586	105.049240
09:10:59.296	09:10:59.292	0	SSR	35000	TRUE	-101.96	4.67	-----	-----	-2.711371	105.041138
09:10:58.665	09:10:58.633	4	SSR	35000	TRUE	-101.96	4.67	23.663	61.118690	-2.711371	105.041138
09:11:07.394	09:11:07.392	0	SSR	35000	TRUE	-102.32	5.39	-----	-----	-2.699189	105.035095
09:11:06.740	09:11:06.739	4	SSR	35000	TRUE	-102.32	5.39	23.710	59.093506	-2.699189	105.035095
09:11:15.494	09:11:15.491	0	SSR	35000	TRUE	-102.80	6.23	-----	-----	-2.684986	105.027016

14-1

09:11:14.940	09:11:14.939	4	SSR	35000	TRUE	-102.80	6.23	23.749	56.661804	-2.684986	105.027016
09:11:22.540	09:11:22.538	4	SSR	35000	TRUE	-103.28	7.19	23.904	53.998566	-2.668682	105.019012
09:11:23.193	09:11:23.191	0	SSR	35000	TRUE	-103.28	7.19	-----	-----	-2.668682	105.019012
09:11:30.742	09:11:30.739	4	SSR	35000	TRUE	-103.63	8.04	24.130	51.792351	-2.654348	105.013092
09:11:31.294	09:11:31.290	0	SSR	35000	TRUE	-103.63	8.04	-----	-----	-2.654348	105.013092
09:11:39.393	09:11:39.390	0	SSR	35000	TRUE	-104.23	9.00	-----	-----	-2.638027	105.003059
09:11:38.819	09:11:38.818	4	SSR	35000	TRUE	-104.23	9.00	24.283	49.024632	-2.638027	105.003059
09:11:47.094	09:11:47.091	0	SSR	35000	TRUE	-104.70	9.97	-----	-----	-2.621595	104.995140
09:11:55.192	09:11:55.190	0	SSR	35000	TRUE	-105.05	10.70	-----	-----	-2.609239	104.989204
09:11:46.526	09:11:46.519	4	SSR	35000	TRUE	-104.70	9.97	24.582	46.498013	-2.621595	104.995140
09:11:54.623	09:11:54.618	4	SSR	35000	TRUE	-105.05	10.70	24.837	44.645535	-2.609239	104.989204
09:12:03.293	09:12:03.290	0	SSR	35000	TRUE	-105.52	11.67	-----	-----	-2.592726	104.981300
09:12:02.718	09:12:02.716	4	SSR	35000	TRUE	-105.52	11.67	25.217	42.238216	-2.592726	104.981300
09:12:11.292	09:12:11.288	0	SSR	35000	TRUE	-104.31	10.97	-----	-----	-2.604683	105.001793
09:12:10.418	09:12:10.417	4	SSR	35000	TRUE	-104.31	10.97	25.546	45.444500	-2.604683	105.001793
09:12:19.193	09:12:19.189	0	SSR	35000	TRUE	-106.35	13.26	-----	-----	-2.565827	104.967415
09:12:18.519	09:12:18.517	4	SSR	35000	TRUE	-106.35	13.26	25.886	38.380337	-2.565827	104.967415
09:12:26.619	09:12:26.617	4	SSR	35000	TRUE	-106.82	14.24	26.376	36.176891	-2.549202	104.959496
09:12:27.191	09:12:27.189	0	SSR	35000	TRUE	-106.82	14.24	-----	-----	-2.549202	104.959496
09:12:35.301	09:12:35.298	0	SSR	35000	TRUE	-107.42	15.22	-----	-----	-2.532592	104.949509
09:12:34.318	09:12:34.317	4	SSR	35000	TRUE	-107.42	15.22	26.834	33.835850	-2.532592	104.949509
09:12:42.901	09:12:42.898	0	SSR	35000	TRUE	-107.77	15.96	-----	-----	-2.520071	104.943550
09:12:42.417	09:12:42.415	4	SSR	35000	TRUE	-107.77	15.96	27.256	32.300461	-2.520071	104.943550
09:12:50.520	09:12:50.517	4	SSR	35000	TRUE	-108.13	16.83	27.804	30.680616	-2.505419	104.937622
09:12:51.000	09:12:50.998	0	SSR	35000	TRUE	-108.13	16.83	-----	-----	-2.505419	104.937622
09:12:59.201	09:12:59.197	0	SSR	35000	TRUE	-108.60	17.69	-----	-----	-2.490793	104.929619
09:12:58.618	09:12:58.616	4	SSR	35000	TRUE	-108.60	17.69	28.313	28.904486	-2.490793	104.929619
09:13:06.600	09:13:06.597	0	SSR	34600	TRUE	-106.77	17.24	-----	-----	-2.498394	104.960518
09:13:06.317	09:13:06.316	4	SSR	34600	TRUE	-106.77	17.24	28.848	32.645100	-2.498394	104.960518
09:13:14.416	09:13:14.415	4	SSR	31900	TRUE	-106.96	18.18	29.456	31.313774	-2.482482	104.957336
09:13:15.101	09:13:15.098	0	SSR	31900	TRUE	-106.96	18.18	-----	-----	-2.482482	104.957336
09:13:23.000	09:13:22.997	0	SSR	27000	TRUE	-107.49	19.28	-----	-----	-2.463814	104.948303
09:13:22.517	09:13:22.516	4	SSR	27000	TRUE	-107.49	19.28	30.001	29.298414	-2.463814	104.948303
09:13:31.189	09:13:31.186	0	SSR	19500	TRUE	-107.65	19.83	-----	-----	-2.454556	104.945633
09:13:30.216	09:13:30.214	4	SSR	19500	TRUE	-107.54	20.05	30.487	28.516659	-2.450944	104.947586

Attachments II – Data Files: Pertinent Position Data
(Extracted from the Original Radar Data)

File Name: trk4.txt

hh,	mm,	ss,	Range (nm)	Azimuth (deg)	Altitude (ft)	Radar Site
8,	47,	35.168,	173.945,	147.919189,	23300,	4
8,	47,	43.205,	172.924,	147.757263,	23500,	4
8,	47,	51.273,	172.023,	147.765579,	23800,	4
8,	47,	59.266,	170.963,	147.938278,	24000,	4
8,	48,	7.341,	169.970,	147.679764,	24300,	4
8,	48,	23.400,	168.075,	147.827011,	24900,	4
8,	48,	39.480,	166.114,	148.014206,	25400,	4
8,	48,	47.493,	165.042,	148.038254,	25700,	4
8,	48,	55.539,	164.166,	147.951385,	26000,	4
8,	49,	3.613,	163.201,	147.584549,	26400,	4
8,	49,	11.597,	162.155,	147.508011,	26700,	4
8,	49,	19.651,	161.120,	147.590668,	26900,	4
8,	49,	27.671,	160.132,	147.314117,	27100,	4
8,	49,	35.707,	159.212,	147.582840,	27300,	4
8,	49,	43.741,	158.257,	147.792236,	27400,	4
8,	49,	59.797,	156.231,	147.597260,	27700,	4
8,	50,	7.831,	155.170,	147.786316,	27900,	4
8,	50,	23.887,	153.156,	147.755920,	28200,	4
8,	50,	31.929,	152.098,	147.505676,	28400,	4
8,	50,	56.031,	148.995,	147.773727,	29400,	4
8,	51,	4.063,	147.962,	147.865631,	29900,	4
8,	51,	12.125,	146.969,	148.025833,	30400,	4
8,	51,	20.147,	146.068,	148.037415,	30700,	4
8,	51,	28.120,	145.061,	148.023026,	31100,	4
8,	51,	36.183,	144.028,	148.119125,	31500,	4
8,	51,	44.188,	143.139,	147.839706,	31900,	4
8,	51,	52.249,	142.198,	147.780960,	32200,	4
8,	52,	0.262,	141.245,	148.017090,	32500,	4
8,	52,	16.381,	139.484,	148.111710,	33000,	4
8,	52,	24.354,	138.436,	148.026123,	33200,	4
8,	52,	32.423,	137.667,	147.949829,	33300,	4
8,	52,	40.457,	136.620,	147.861740,	33400,	4
8,	52,	48.477,	135.814,	148.208435,	33500,	4
8,	52,	56.485,	134.805,	147.693008,	33500,	4
8,	53,	4.525,	133.851,	147.941528,	33600,	4
8,	53,	12.568,	132.844,	147.925064,	33700,	4
8,	53,	20.615,	131.998,	148.207413,	33800,	4
8,	53,	28.645,	131.008,	148.389862,	33900,	4
8,	53,	36.689,	129.955,	147.780792,	34100,	4
8,	53,	44.727,	129.094,	147.868591,	34300,	4
8,	53,	52.750,	128.093,	148.378479,	34500,	4
8,	54,	0.807,	127.135,	148.113785,	34700,	4
8,	54,	8.832,	126.315,	148.283798,	34900,	4
8,	54,	16.889,	125.267,	148.190445,	34900,	4
8,	54,	24.868,	124.366,	148.205261,	34900,	4
8,	54,	32.963,	123.278,	148.029846,	35000,	4
8,	54,	40.965,	122.418,	148.124176,	35000,	4
8,	54,	49.044,	121.386,	148.239090,	35000,	4
8,	54,	57.037,	120.349,	147.794678,	35000,	4
8,	55,	5.073,	119.382,	147.857849,	35000,	4

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8, 55,	37.191,	115.487,	147.674072,	35000,	4
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8, 57,	21.526,	102.897,	146.295441,	35000,	4
8, 57,	29.566,	101.961,	146.199371,	35000,	4
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8, 58,	33.676,	94.355,	144.939224,	35000,	4
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8, 58,	49.704,	92.504,	144.420761,	35000,	4
8, 58,	57.769,	91.545,	144.185410,	35000,	4
8, 59,	5.712,	90.633,	143.770920,	35000,	4
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9, 2,	26.409,	66.885,	138.714752,	35000,	4
9, 2,	34.421,	65.898,	138.541656,	35000,	4

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9, 3,	46.515,	57.894,	134.937973,	35000,	4
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9, 10,	18.302,	24.055,	73.863564,	35000,	4
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9, 10,	50.210,	23.647,	63.826286,	35000,	4
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9, 12,	1.957,	25.217,	42.238216,	35000,	4
9, 12,	10.013,	25.546,	45.444500,	35000,	4
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9, 12,	25.850,	26.376,	36.176891,	35000,	4
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9, 12,	41.824,	27.256,	32.300461,	35000,	4
9, 12,	49.819,	27.804,	30.680616,	35000,	4
9, 12,	57.820,	28.313,	28.904486,	35000,	4
9, 13,	5.900,	28.848,	32.645100,	34600,	4
9, 13,	13.914,	29.456,	31.313774,	31900,	4
9, 13,	21.866,	30.001,	29.298414,	27000,	4
9, 13,	29.881,	30.243,	28.516504,	19500,	4

File Name: plt4.txt

Time	Range	Azimuth	Altitude	Radar
hh, mm, ss,	(nm)	(deg)	(ft)	Site
08, 47, 35.906,	173.945,	147.919189,	23300,	4
08, 47, 43.615,	172.924,	147.757263,	23500,	4
08, 47, 51.717,	172.023,	147.765579,	23800,	4
08, 47, 59.714,	170.963,	147.938278,	24000,	4
08, 48, 7.815,	169.970,	147.679764,	24300,	4
08, 48, 24.013,	168.075,	147.827011,	24900,	4
08, 48, 39.924,	166.114,	148.014206,	25400,	4
08, 48, 47.923,	165.042,	148.038254,	25700,	4
08, 48, 56.023,	164.166,	147.951385,	26000,	4
08, 49, 4.228,	163.201,	147.584549,	26400,	4
08, 49, 12.323,	162.155,	147.508011,	26700,	4
08, 49, 20.022,	161.120,	147.590668,	26900,	4
08, 49, 28.123,	160.132,	147.314117,	27100,	4
08, 49, 36.203,	159.212,	147.582840,	27300,	4
08, 49, 44.303,	158.257,	147.792236,	27400,	4
08, 50, 0.503,	156.231,	147.597260,	27700,	4
08, 50, 8.203,	155.170,	147.786316,	27900,	4
08, 50, 24.401,	153.156,	147.755920,	28200,	4
08, 50, 32.501,	152.098,	147.505676,	28400,	4
08, 50, 56.413,	148.995,	147.773727,	29400,	4
08, 51, 4.511,	147.962,	147.865631,	29900,	4
08, 51, 12.610,	146.969,	148.025833,	30400,	4
08, 51, 20.709,	146.068,	148.037415,	30700,	4
08, 51, 28.811,	145.061,	148.023026,	31100,	4
08, 51, 36.899,	144.028,	148.119125,	31500,	4
08, 51, 44.599,	143.139,	147.839706,	31900,	4
08, 51, 52.699,	142.198,	147.780960,	32200,	4
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08, 52, 25.098,	138.436,	148.026123,	33200,	4
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08, 52, 40.997,	136.620,	147.861740,	33400,	4
08, 52, 49.017,	135.814,	148.208435,	33500,	4
08, 52, 57.117,	134.805,	147.693008,	33500,	4
08, 53, 5.216,	133.851,	147.941528,	33600,	4
08, 53, 12.916,	132.844,	147.925064,	33700,	4
08, 53, 21.016,	131.998,	148.207413,	33800,	4
08, 53, 29.115,	131.008,	148.389862,	33900,	4
08, 53, 37.196,	129.955,	147.780792,	34100,	4
08, 53, 45.305,	129.094,	147.868591,	34300,	4
08, 53, 53.506,	128.093,	148.378479,	34500,	4
08, 54, 1.609,	127.135,	148.113785,	34700,	4
08, 54, 9.205,	126.315,	148.283798,	34900,	4
08, 54, 17.305,	125.267,	148.190445,	34900,	4
08, 54, 25.405,	124.366,	148.205261,	34900,	4
08, 54, 33.494,	123.278,	148.029846,	35000,	4
08, 54, 41.605,	122.418,	148.124176,	35000,	4
08, 54, 49.704,	121.386,	148.239090,	35000,	4
08, 54, 57.404,	120.349,	147.794678,	35000,	4
08, 55, 5.605,	119.382,	147.857849,	35000,	4

08, 55, 13.704,	118.468,	147.652832,	35000,	4
08, 55, 21.804,	117.514,	147.935471,	35000,	4
08, 55, 29.904,	116.467,	147.831970,	35000,	4
08, 55, 37.993,	115.487,	147.674072,	35000,	4
08, 56, 9.943,	111.675,	146.818481,	35000,	4
08, 56, 18.141,	110.645,	147.165817,	35000,	4
08, 56, 25.741,	109.744,	147.174011,	35000,	4
08, 56, 33.841,	108.730,	146.909439,	35000,	4
08, 56, 41.942,	107.724,	146.879379,	35000,	4
08, 56, 50.040,	106.750,	146.700073,	35000,	4
08, 56, 57.740,	105.776,	146.517151,	35000,	4
08, 57, 5.940,	104.774,	146.729111,	35000,	4
08, 57, 14.040,	103.836,	146.638611,	35000,	4
08, 57, 22.040,	102.897,	146.295441,	35000,	4
08, 57, 30.140,	101.961,	146.199371,	35000,	4
08, 57, 37.839,	100.896,	146.987320,	35000,	4
08, 57, 54.039,	99.049,	146.120178,	35000,	4
08, 58, 2.140,	98.115,	145.755508,	35000,	4
08, 58, 10.339,	97.090,	145.075989,	35000,	4
08, 58, 17.939,	96.189,	145.065826,	35000,	4
08, 58, 26.039,	95.225,	144.846146,	35000,	4
08, 58, 34.138,	94.355,	144.939224,	35000,	4
08, 58, 42.340,	93.405,	144.437546,	35000,	4
08, 58, 50.438,	92.504,	144.420761,	35000,	4
08, 58, 58.037,	91.545,	144.185410,	35000,	4
08, 59, 6.241,	90.633,	143.770920,	35000,	4
08, 59, 14.337,	89.671,	144.210663,	35000,	4
08, 59, 22.336,	88.713,	143.965561,	35000,	4
08, 59, 30.537,	87.757,	143.715027,	35000,	4
08, 59, 38.136,	86.830,	143.574493,	35000,	4
08, 59, 46.337,	85.903,	143.430664,	35000,	4
08, 59, 54.316,	84.900,	142.929947,	35000,	4
09, 0, 2.516,	84.000,	142.895172,	35000,	4
09, 0, 10.615,	83.052,	142.618240,	35000,	4
09, 0, 18.315,	82.159,	142.143539,	35000,	4
09, 0, 26.415,	81.062,	141.990967,	35000,	4
09, 0, 34.535,	80.131,	142.265610,	35000,	4
09, 0, 42.635,	79.144,	141.713547,	35000,	4
09, 0, 50.735,	78.246,	141.662323,	35000,	4
09, 0, 58.835,	77.326,	141.480026,	35000,	4
09, 1, 6.534,	76.291,	141.102631,	35000,	4
09, 1, 14.634,	75.374,	140.908752,	35000,	4
09, 1, 22.734,	74.459,	140.709763,	35000,	4
09, 1, 30.834,	73.526,	140.369202,	35000,	4
09, 1, 38.934,	72.567,	140.512421,	35000,	4
09, 1, 47.034,	71.621,	140.019363,	35000,	4
09, 1, 54.734,	70.599,	139.590134,	35000,	4
09, 2, 2.834,	69.718,	139.650223,	35000,	4
09, 2, 10.933,	68.727,	139.497894,	35000,	4
09, 2, 19.033,	67.779,	138.813644,	35000,	4
09, 2, 27.132,	66.885,	138.714752,	35000,	4
09, 2, 34.832,	65.898,	138.541656,	35000,	4
09, 2, 42.931,	64.994,	138.280884,	35000,	4
09, 2, 51.043,	64.091,	138.012772,	35000,	4

09,	2,	59.141,	63.173,	137.416611,	35000,	4
09,	3,	6.842,	62.353,	136.881256,	35000,	4
09,	3,	14.941,	61.372,	136.666229,	35000,	4
09,	3,	23.041,	60.569,	136.439194,	35000,	4
09,	3,	31.099,	59.583,	135.870377,	35000,	4
09,	3,	38.831,	58.694,	135.540741,	35000,	4
09,	3,	46.930,	57.894,	134.937973,	35000,	4
09,	3,	55.031,	56.834,	134.761383,	35000,	4
09,	4,	3.130,	56.041,	134.308395,	35000,	4
09,	4,	11.109,	55.092,	128.956833,	35000,	4
09,	4,	11.229,	55.092,	128.956833,	35000,	4
09,	4,	18.929,	54.198,	133.448730,	35000,	4
09,	4,	27.029,	53.325,	133.045761,	35000,	4
09,	4,	35.128,	52.350,	133.108810,	35000,	4
09,	4,	43.218,	51.502,	132.096115,	35000,	4
09,	4,	51.318,	50.637,	131.648331,	35000,	4
09,	4,	59.018,	49.694,	131.076935,	35000,	4
09,	5,	7.118,	48.931,	130.499390,	35000,	4
09,	5,	15.217,	47.918,	129.770706,	35000,	4
09,	5,	23.318,	47.134,	129.578232,	35000,	4
09,	5,	31.428,	46.209,	128.921814,	35000,	4
09,	5,	39.027,	45.447,	128.485474,	35000,	4
09,	5,	47.227,	44.533,	127.781868,	35000,	4
09,	5,	55.337,	43.702,	127.179077,	35000,	4
09,	6,	3.436,	42.901,	126.319611,	35000,	4
09,	6,	11.137,	42.082,	125.664871,	35000,	4
09,	6,	19.235,	41.260,	124.358788,	35000,	4
09,	6,	27.336,	40.528,	123.785637,	35000,	4
09,	6,	35.525,	39.696,	123.290329,	35000,	4
09,	6,	43.125,	38.876,	122.109810,	35000,	4
09,	6,	51.225,	37.989,	121.396164,	35000,	4
09,	6,	59.324,	37.323,	120.452248,	35000,	4
09,	7,	7.525,	36.606,	119.304024,	35000,	4
09,	7,	15.125,	35.854,	118.381004,	35000,	4
09,	7,	23.211,	35.050,	111.841370,	35000,	4
09,	7,	23.228,	35.050,	111.841370,	35000,	4
09,	7,	31.288,	34.381,	115.949593,	35000,	4
09,	7,	39.424,	33.612,	114.699776,	35000,	4
09,	7,	47.023,	32.961,	113.790787,	35000,	4
09,	7,	55.224,	32.221,	112.436165,	35000,	4
09,	8,	3.322,	31.546,	111.230301,	35000,	4
09,	8,	11.423,	30.885,	109.971985,	35000,	4
09,	8,	19.124,	30.358,	108.583763,	35000,	4
09,	8,	27.223,	29.730,	107.218758,	35000,	4
09,	8,	35.322,	29.053,	105.321686,	35000,	4
09,	8,	42.922,	28.589,	103.765015,	35000,	4
09,	8,	51.021,	28.025,	102.212578,	35000,	4
09,	8,	59.232,	27.459,	100.341667,	35000,	4
09,	9,	6.832,	27.049,	93.294350,	35000,	4
09,	9,	14.932,	26.511,	91.471275,	35000,	4
09,	9,	23.131,	26.126,	89.301765,	35000,	4
09,	9,	31.231,	25.774,	87.348427,	35000,	4
09,	9,	38.921,	25.329,	85.321243,	35000,	4
09,	9,	47.032,	25.055,	82.973145,	35000,	4

09, 9, 55.131,	24.662,	81.103851,	35000,	4
09, 10, 3.231,	24.367,	78.309425,	35000,	4
09, 10, 10.930,	24.164,	76.388908,	35000,	4
09, 10, 19.030,	24.055,	73.863564,	35000,	4
09, 10, 26.629,	23.875,	71.225357,	35000,	4
09, 10, 34.718,	23.818,	68.941788,	35000,	4
09, 10, 42.919,	23.684,	66.532166,	35000,	4
09, 10, 50.519,	23.647,	63.826286,	35000,	4
09, 10, 58.633,	23.663,	61.118690,	35000,	4
09, 11, 6.739,	23.710,	59.093506,	35000,	4
09, 11, 14.939,	23.749,	56.661804,	35000,	4
09, 11, 22.538,	23.904,	53.998566,	35000,	4
09, 11, 30.739,	24.130,	51.792351,	35000,	4
09, 11, 38.818,	24.283,	49.024632,	35000,	4
09, 11, 46.519,	24.582,	46.498013,	35000,	4
09, 11, 54.618,	24.837,	44.645535,	35000,	4
09, 12, 2.716,	25.217,	42.238216,	35000,	4
09, 12, 10.417,	25.546,	45.444500,	35000,	4
09, 12, 18.517,	25.886,	38.380337,	35000,	4
09, 12, 26.617,	26.376,	36.176891,	35000,	4
09, 12, 34.317,	26.834,	33.835850,	35000,	4
09, 12, 42.415,	27.256,	32.300461,	35000,	4
09, 12, 50.517,	27.804,	30.680616,	35000,	4
09, 12, 58.616,	28.313,	28.904486,	35000,	4
09, 13, 6.316,	28.848,	32.645100,	34600,	4
09, 13, 14.415,	29.456,	31.313774,	31900,	4
09, 13, 22.516,	30.001,	29.298414,	27000,	4
09, 13, 30.214,	30.487,	28.516659,	19500,	4

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Original Azimuth (deg)	Altitude (ft msl)
8:47:35.168	8	47	35.168	173.945	147.919189	23300
8:47:43.205	8	47	43.205	172.924	147.757263	23500
8:47:51.273	8	47	51.273	172.023	147.765579	23800
8:47:59.266	8	47	59.266	170.963	147.938278	24000
8:48:07.341	8	48	7.341	169.97	147.679764	24300
8:48:23.400	8	48	23.4	168.075	147.827011	24900
8:48:39.480	8	48	39.48	166.114	148.014206	25400
8:48:47.493	8	48	47.493	165.042	148.038254	25700
8:48:55.539	8	48	55.539	164.166	147.951385	26000
8:49:03.613	8	49	3.613	163.201	147.584549	26400
8:49:11.597	8	49	11.597	162.155	147.508011	26700
8:49:19.651	8	49	19.651	161.12	147.590668	26900
8:49:27.671	8	49	27.671	160.132	147.314117	27100
8:49:35.707	8	49	35.707	159.212	147.58284	27300
8:49:43.741	8	49	43.741	158.257	147.792236	27400
8:49:59.797	8	49	59.797	156.231	147.59726	27700
8:50:07.831	8	50	7.831	155.17	147.786316	27900
8:50:23.887	8	50	23.887	153.156	147.75592	28200
8:50:31.929	8	50	31.929	152.098	147.505676	28400
8:50:56.031	8	50	56.031	148.995	147.773727	29400
8:51:04.063	8	51	4.063	147.962	147.865631	29900
8:51:12.125	8	51	12.125	146.969	148.025833	30400
8:51:20.147	8	51	20.147	146.068	148.037415	30700
8:51:28.120	8	51	28.12	145.061	148.023026	31100
8:51:36.183	8	51	36.183	144.028	148.119125	31500
8:51:44.188	8	51	44.188	143.139	147.839706	31900
8:51:52.249	8	51	52.249	142.198	147.78096	32200
8:52:00.262	8	52	0.262	141.245	148.01709	32500
8:52:16.381	8	52	16.381	139.484	148.11171	33000
8:52:24.354	8	52	24.354	138.436	148.026123	33200
8:52:32.423	8	52	32.423	137.667	147.949829	33300
8:52:40.457	8	52	40.457	136.62	147.86174	33400
8:52:48.477	8	52	48.477	135.814	148.208435	33500
8:52:56.485	8	52	56.485	134.805	147.693008	33500
8:53:04.525	8	53	4.525	133.851	147.941528	33600
8:53:12.568	8	53	12.568	132.844	147.925064	33700
8:53:20.615	8	53	20.615	131.998	148.207413	33800
8:53:28.645	8	53	28.645	131.008	148.389862	33900
8:53:36.689	8	53	36.689	129.955	147.780792	34100
8:53:44.727	8	53	44.727	129.094	147.868591	34300
8:53:52.750	8	53	52.75	128.093	148.378479	34500
8:54:00.807	8	54	0.807	127.135	148.113785	34700
8:54:08.832	8	54	8.832	126.315	148.283798	34900
8:54:16.889	8	54	16.889	125.267	148.190445	34900
8:54:24.868	8	54	24.868	124.366	148.205261	34900
8:54:32.963	8	54	32.963	123.278	148.029846	35000

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Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Original Azimuth (deg)	Altitude (ft msl)
8:54:40.965	8	54	40.965	122.418	148.124176	35000
8:54:49.044	8	54	49.044	121.386	148.23909	35000
8:54:57.037	8	54	57.037	120.349	147.794678	35000
8:55:05.073	8	55	5.073	119.382	147.857849	35000
8:55:13.112	8	55	13.112	118.468	147.652832	35000
8:55:21.131	8	55	21.131	117.514	147.935471	35000
8:55:29.205	8	55	29.205	116.467	147.83197	35000
8:55:37.191	8	55	37.191	115.487	147.674072	35000
8:55:53.237	8	55	53.237	113.53	147.35025	35000
8:56:01.277	8	56	1.277	112.639	147.588974	35000
8:56:09.290	8	56	9.29	111.675	146.818481	35000
8:56:17.342	8	56	17.342	110.645	147.165817	35000
8:56:25.382	8	56	25.382	109.744	147.174011	35000
8:56:33.388	8	56	33.388	108.73	146.909439	35000
8:56:41.449	8	56	41.449	107.724	146.879379	35000
8:56:49.453	8	56	49.453	106.75	146.700073	35000
8:56:57.497	8	56	57.497	105.776	146.517151	35000
8:57:05.485	8	57	5.485	104.774	146.729111	35000
8:57:13.554	8	57	13.554	103.836	146.638611	35000
8:57:21.526	8	57	21.526	102.897	146.295441	35000
8:57:29.566	8	57	29.566	101.961	146.199371	35000
8:57:37.642	8	57	37.642	100.896	146.98732	35000
8:57:53.606	8	57	53.606	99.049	146.120178	35000
8:58:01.636	8	58	1.636	98.115	145.755508	35000
8:58:09.651	8	58	9.651	97.09	145.075989	35000
8:58:17.639	8	58	17.639	96.189	145.065826	35000
8:58:25.690	8	58	25.69	95.225	144.846146	35000
8:58:33.676	8	58	33.676	94.355	144.939224	35000
8:58:41.721	8	58	41.721	93.405	144.437546	35000
8:58:49.704	8	58	49.704	92.504	144.420761	35000
8:58:57.769	8	58	57.769	91.545	144.18541	35000
8:59:05.712	8	59	5.712	90.633	143.77092	35000
8:59:13.772	8	59	13.772	89.671	144.210663	35000
8:59:21.796	8	59	21.796	88.713	143.965561	35000
8:59:29.820	8	59	29.82	87.757	143.715027	35000
8:59:37.833	8	59	37.833	86.83	143.574493	35000
8:59:45.864	8	59	45.864	85.903	143.430664	35000
8:59:53.883	8	59	53.883	84.9	142.929947	35000
9:00:01.912	9	0	1.912	84	142.895172	35000
9:00:09.922	9	0	9.922	83.052	142.61824	35000
9:00:17.959	9	0	17.959	82.159	142.143539	35000
9:00:26.010	9	0	26.01	81.062	141.990967	35000
9:00:34.052	9	0	34.052	80.131	142.26561	35000
9:00:42.066	9	0	42.066	79.144	141.713547	35000
9:00:50.109	9	0	50.109	78.246	141.662323	35000
9:00:58.145	9	0	58.145	77.326	141.480026	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Original Azimuth (deg)	Altitude (ft msl)
9:01:06.176	9	1	6.176	76.291	141.102631	35000
9:01:14.170	9	1	14.17	75.374	140.908752	35000
9:01:22.231	9	1	22.231	74.459	140.709763	35000
9:01:30.204	9	1	30.204	73.526	140.369202	35000
9:01:38.249	9	1	38.249	72.567	140.512421	35000
9:01:46.268	9	1	46.268	71.621	140.019363	35000
9:01:54.344	9	1	54.344	70.599	139.590134	35000
9:02:02.332	9	2	2.332	69.718	139.650223	35000
9:02:10.366	9	2	10.366	68.727	139.497894	35000
9:02:18.381	9	2	18.381	67.779	138.813644	35000
9:02:26.409	9	2	26.409	66.885	138.714752	35000
9:02:34.421	9	2	34.421	65.898	138.541656	35000
9:02:42.408	9	2	42.408	64.994	138.280884	35000
9:02:50.457	9	2	50.457	64.091	138.012772	35000
9:02:58.442	9	2	58.442	63.173	137.416611	35000
9:03:06.454	9	3	6.454	62.353	136.881256	35000
9:03:14.442	9	3	14.442	61.372	136.666229	35000
9:03:22.478	9	3	22.478	60.569	136.439194	35000
9:03:30.496	9	3	30.496	59.583	135.870377	35000
9:03:38.491	9	3	38.491	58.694	135.540741	35000
9:03:46.515	9	3	46.515	57.894	134.937973	35000
9:03:54.541	9	3	54.541	56.834	134.761383	35000
9:04:02.561	9	4	2.561	56.041	134.308395	35000
9:04:18.599	9	4	18.599	54.198	133.44873	35000
9:04:26.612	9	4	26.612	53.325	133.045761	35000
9:04:34.589	9	4	34.589	52.35	133.10881	35000
9:04:42.598	9	4	42.598	51.502	132.096115	35000
9:04:50.621	9	4	50.621	50.637	131.648331	35000
9:04:58.639	9	4	58.639	49.694	131.076935	35000
9:05:06.656	9	5	6.656	48.931	130.49939	35000
9:05:14.642	9	5	14.642	47.918	129.770706	35000
9:05:22.675	9	5	22.675	47.134	129.578232	35000
9:05:30.677	9	5	30.677	46.209	128.921814	35000
9:05:38.714	9	5	38.714	45.447	128.485474	35000
9:05:46.752	9	5	46.752	44.533	127.781868	35000
9:05:54.748	9	5	54.748	43.702	127.179077	35000
9:06:02.735	9	6	2.735	42.901	126.319611	35000
9:06:10.785	9	6	10.785	42.082	125.664871	35000
9:06:18.752	9	6	18.752	41.26	124.358788	35000
9:06:26.749	9	6	26.749	40.528	123.785637	35000
9:06:34.802	9	6	34.802	39.696	123.290329	35000
9:06:42.799	9	6	42.799	38.876	122.10981	35000
9:06:50.813	9	6	50.813	37.989	121.396164	35000
9:06:58.782	9	6	58.782	37.323	120.452248	35000
9:07:06.783	9	7	6.783	36.606	119.304024	35000
9:07:14.782	9	7	14.782	35.854	118.381004	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Original Azimuth (deg)	Altitude (ft msl)
9:07:30.794	9	7	30.794	34.381	115.949593	35000
9:07:38.780	9	7	38.78	33.612	114.699776	35000
9:07:46.780	9	7	46.78	32.961	113.790787	35000
9:07:54.757	9	7	54.757	32.221	112.436165	35000
9:08:02.766	9	8	2.766	31.546	111.230301	35000
9:08:10.742	9	8	10.742	30.885	109.971985	35000
9:08:18.721	9	8	18.721	30.358	108.583763	35000
9:08:26.713	9	8	26.713	29.73	107.218758	35000
9:08:34.691	9	8	34.691	29.053	105.321686	35000
9:08:42.689	9	8	42.689	28.589	103.765015	35000
9:08:50.659	9	8	50.659	28.025	102.212578	35000
9:08:58.627	9	8	58.627	27.459	100.341667	35000
9:09:06.518	9	9	6.518	27.049	93.29435	35000
9:09:14.518	9	9	14.518	26.511	91.471275	35000
9:09:22.459	9	9	22.459	26.126	89.301765	35000
9:09:30.441	9	9	30.441	25.774	87.348427	35000
9:09:38.453	9	9	38.453	25.329	85.321243	35000
9:09:46.389	9	9	46.389	25.055	82.973145	35000
9:09:54.384	9	9	54.384	24.662	81.103851	35000
9:10:02.376	9	10	2.376	24.367	78.309425	35000
9:10:10.322	9	10	10.322	24.164	76.388908	35000
9:10:18.302	9	10	18.302	24.055	73.863564	35000
9:10:26.274	9	10	26.274	23.875	71.225357	35000
9:10:34.288	9	10	34.288	23.818	68.941788	35000
9:10:42.223	9	10	42.223	23.684	66.532166	35000
9:10:50.210	9	10	50.21	23.647	63.826286	35000
9:10:58.178	9	10	58.178	23.663	61.11869	35000
9:11:06.140	9	11	6.14	23.71	59.093506	35000
9:11:14.119	9	11	14.119	23.749	56.661804	35000
9:11:22.078	9	11	22.078	23.904	53.998566	35000
9:11:30.083	9	11	30.083	24.13	51.792351	35000
9:11:38.026	9	11	38.026	24.283	49.024632	35000
9:11:45.979	9	11	45.979	24.582	46.498013	35000
9:11:53.982	9	11	53.982	24.837	44.645535	35000
9:12:01.957	9	12	1.957	25.217	42.238216	35000
9:12:10.013	9	12	10.013	25.546	45.4445	35000
9:12:17.891	9	12	17.891	25.886	38.380337	35000
9:12:25.850	9	12	25.85	26.376	36.176891	35000
9:12:33.841	9	12	33.841	26.834	33.83585	35000
9:12:41.824	9	12	41.824	27.256	32.300461	35000
9:12:49.819	9	12	49.819	27.804	30.680616	35000
9:12:57.820	9	12	57.82	28.313	28.904486	35000
9:13:05.900	9	13	5.9	28.848	32.6451	34600
9:13:13.914	9	13	13.914	29.456	31.313774	31900
9:13:21.866	9	13	21.866	30.001	29.298414	27000
9:13:29.881	9	13	29.881	30.487	28.516659	19500

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
8:47:35.168	8	47	35.168	92.3627	-147.3477	23300
8:47:43.205	8	47	43.205	92.2335	-146.2217	23500
8:47:51.273	8	47	51.273	91.731	-145.4718	23800
8:47:59.266	8	47	59.266	90.7289	-144.8485	24000
8:48:07.341	8	48	7.341	90.8498	-143.5973	24300
8:48:23.400	8	48	23.4	89.4699	-142.2238	24900
8:48:39.480	8	48	39.48	87.9646	-140.8499	25400
8:48:47.493	8	48	47.493	87.3372	-139.9759	25700
8:48:55.539	8	48	55.539	87.0836	-139.0995	26000
8:49:03.613	8	49	3.613	87.454	-137.7227	26400
8:49:11.597	8	49	11.597	87.0751	-136.7221	26700
8:49:19.651	8	49	19.651	86.3223	-135.9727	26900
8:49:27.671	8	49	27.671	86.4434	-134.7218	27100
8:49:35.707	8	49	35.707	85.3167	-134.3481	27300
8:49:43.741	8	49	43.741	84.3157	-133.8502	27400
8:49:59.797	8	49	59.797	83.6838	-131.85	27700
8:50:07.831	8	50	7.831	82.6819	-131.2266	27900
8:50:23.887	8	50	23.887	81.6757	-129.4773	28200
8:50:31.929	8	50	31.929	81.6713	-128.2257	28400
8:50:56.031	8	50	56.031	79.4122	-125.9757	29400
8:51:04.063	8	51	4.063	78.6588	-125.2254	29900
8:51:12.125	8	51	12.125	77.7808	-124.5997	30400
8:51:20.147	8	51	20.147	77.2774	-123.8491	30700
8:51:28.120	8	51	28.12	76.7737	-122.973	31100
8:51:36.183	8	51	36.183	76.0202	-122.2219	31500
8:51:44.188	8	51	44.188	76.1405	-121.0946	31900
8:51:52.249	8	51	52.249	75.7616	-120.2183	32200
8:52:00.262	8	52	0.262	74.7594	-119.719	32500
8:52:16.381	8	52	16.381	73.629	-118.3433	33000
8:52:24.354	8	52	24.354	73.2496	-117.3424	33200
8:52:32.423	8	52	32.423	72.9971	-116.5919	33300
8:52:40.457	8	52	40.457	72.6185	-115.5917	33400
8:52:48.477	8	52	48.477	71.4924	-115.3428	33500
8:52:56.485	8	52	56.485	71.9874	-113.8415	33500
8:53:04.525	8	53	4.525	70.9858	-113.3429	33600
8:53:12.568	8	53	12.568	70.4827	-112.4679	33700
8:53:20.615	8	53	20.615	69.4812	-112.0936	33800
8:53:28.645	8	53	28.645	68.6042	-111.4698	33900
8:53:36.689	8	53	36.689	69.2225	-109.8414	34100
8:53:44.727	8	53	44.727	68.595	-109.2163	34300
8:53:52.750	8	53	52.75	67.0943	-108.968	34500
8:54:00.807	8	54	0.807	67.0896	-107.8414	34700
8:54:08.832	8	54	8.832	66.337	-107.3404	34900
8:54:16.889	8	54	16.889	65.9589	-106.3407	34900
8:54:24.868	8	54	24.868	65.4561	-105.5911	34900
8:54:32.963	8	54	32.963	65.202	-104.4656	35000
8:54:40.965	8	54	40.965	64.5753	-103.8417	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
8:54:49.044	8	54	49.044	63.8231	-103.0926	35000
8:54:57.037	8	54	57.037	64.0675	-101.716	35000
8:55:05.073	8	55	5.073	63.4402	-100.9669	35000
8:55:13.112	8	55	13.112	63.3115	-99.9661	35000
8:55:21.131	8	55	21.131	62.3105	-99.4678	35000
8:55:29.205	8	55	29.205	61.932	-98.4677	35000
8:55:37.191	8	55	37.191	61.6784	-97.4675	35000
8:55:53.237	8	55	53.237	61.1712	-95.4676	35000
8:56:01.277	8	56	1.277	60.2947	-94.9684	35000
8:56:09.290	8	56	9.29	61.038	-93.3412	35000
8:56:17.342	8	56	17.342	59.9118	-92.8428	35000
8:56:25.382	8	56	25.382	59.4094	-92.0933	35000
8:56:33.388	8	56	33.388	59.2797	-90.9672	35000
8:56:41.449	8	56	41.449	58.7769	-90.0924	35000
8:56:49.453	8	56	49.453	58.5231	-89.0927	35000
8:56:57.497	8	56	57.497	58.2691	-88.0919	35000
8:57:05.485	8	57	5.485	57.3923	-87.4678	35000
8:57:13.554	8	57	13.554	57.0137	-86.5924	35000
8:57:21.526	8	57	21.526	57.0095	-85.467	35000
8:57:29.566	8	57	29.566	56.6312	-84.5923	35000
8:57:37.642	8	57	37.642	54.8814	-84.4686	35000
8:57:53.606	8	57	53.606	55.1221	-82.0924	35000
8:58:01.636	8	58	1.636	55.117	-80.9665	35000
8:58:09.651	8	58	9.651	55.4855	-79.4653	35000
8:58:17.639	8	58	17.639	54.9827	-78.7155	35000
8:58:25.690	8	58	25.69	54.7281	-77.7145	35000
8:58:33.676	8	58	33.676	54.1011	-77.0899	35000
8:58:41.721	8	58	41.721	54.2204	-75.8389	35000
8:58:49.704	8	58	49.704	53.7174	-75.0888	35000
8:58:57.769	8	58	57.769	53.4631	-74.0884	35000
8:59:05.712	8	59	5.712	53.4576	-72.9625	35000
8:59:13.772	8	59	13.772	52.3323	-72.5887	35000
8:59:21.796	8	59	21.796	52.0776	-71.5879	35000
8:59:29.820	8	59	29.82	51.8232	-70.5872	35000
8:59:37.833	8	59	37.833	51.4445	-69.7124	35000
8:59:45.864	8	59	45.864	51.0658	-68.8369	35000
8:59:53.883	8	59	53.883	51.0595	-67.5858	35000
9:00:01.912	9	0	1.912	50.5563	-66.8354	35000
9:00:09.922	9	0	9.922	50.3018	-65.8352	35000
9:00:17.959	9	0	17.959	50.2961	-64.7094	35000
9:00:26.010	9	0	26.01	49.7911	-63.7087	35000
9:00:34.052	9	0	34.052	48.9139	-63.2085	35000
9:00:42.066	9	0	42.066	48.9075	-61.9575	35000
9:00:50.109	9	0	50.109	48.4044	-61.2075	35000
9:00:58.145	9	0	58.145	48.0243	-60.3314	35000
9:01:06.176	9	1	6.176	47.7689	-59.206	35000
9:01:14.170	9	1	14.17	47.3891	-58.3302	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
9:01:22.231	9	1	22.231	47.0103	-57.4551	35000
9:01:30.204	9	1	30.204	46.754	-56.4539	35000
9:01:38.249	9	1	38.249	46.001	-55.8281	35000
9:01:46.268	9	1	46.268	45.87	-54.703	35000
9:01:54.344	9	1	54.344	45.6138	-53.5771	35000
9:02:02.332	9	2	2.332	44.9852	-52.9512	35000
9:02:10.366	9	2	10.366	44.48	-52.0753	35000
9:02:18.381	9	2	18.381	44.4722	-50.8244	35000
9:02:26.409	9	2	26.409	43.9678	-50.0733	35000
9:02:34.421	9	2	34.421	43.463	-49.1978	35000
9:02:42.408	9	2	42.408	43.0825	-48.3221	35000
9:02:50.457	9	2	50.457	42.7016	-47.4461	35000
9:02:58.442	9	2	58.442	42.5693	-46.3205	35000
9:03:06.454	9	3	6.454	42.4374	-45.3197	35000
9:03:14.442	9	3	14.442	41.931	-44.4434	35000
9:03:22.478	9	3	22.478	41.5509	-43.6924	35000
9:03:30.496	9	3	30.496	41.2929	-42.5668	35000
9:03:38.491	9	3	38.491	40.9115	-41.691	35000
9:03:46.515	9	3	46.515	40.7788	-40.6904	35000
9:03:54.541	9	3	54.541	40.1475	-39.8144	35000
9:04:02.561	9	4	2.561	39.8906	-38.9389	35000
9:04:18.599	9	4	18.599	39.125	-37.0616	35000
9:04:26.612	9	4	26.612	38.743	-36.1862	35000
9:04:34.589	9	4	34.589	37.9871	-35.5585	35000
9:04:42.598	9	4	42.598	37.9765	-34.3096	35000
9:04:50.621	9	4	50.621	37.593	-33.4332	35000
9:04:58.639	9	4	58.639	37.2089	-32.4329	35000
9:05:06.656	9	5	6.656	36.9498	-31.5573	35000
9:05:14.642	9	5	14.642	36.5639	-30.4322	35000
9:05:22.675	9	5	22.675	36.0572	-29.806	35000
9:05:30.677	9	5	30.677	35.6711	-28.8053	35000
9:05:38.714	9	5	38.714	35.2882	-28.0548	35000
9:05:46.752	9	5	46.752	34.9017	-27.0548	35000
9:05:54.748	9	5	54.748	34.5166	-26.1796	35000
9:06:02.735	9	6	2.735	34.2543	-25.1802	35000
9:06:10.785	9	6	10.785	33.8682	-24.3052	35000
9:06:18.752	9	6	18.752	33.7283	-23.0585	35000
9:06:26.749	9	6	26.749	33.3427	-22.3088	35000
9:06:34.802	9	6	34.802	32.8316	-21.5583	35000
9:06:42.799	9	6	42.799	32.5667	-20.4367	35000
9:06:50.813	9	6	50.813	32.0529	-19.5622	35000
9:06:58.782	9	6	58.782	31.7899	-18.6899	35000
9:07:06.783	9	7	6.783	31.5251	-17.6939	35000
9:07:14.782	9	7	14.782	31.1359	-16.8217	35000
9:07:30.794	9	7	30.794	30.4789	-14.8323	35000
9:07:38.780	9	7	38.78	30.0863	-13.8379	35000
9:07:46.780	9	7	46.78	29.6972	-13.0923	35000

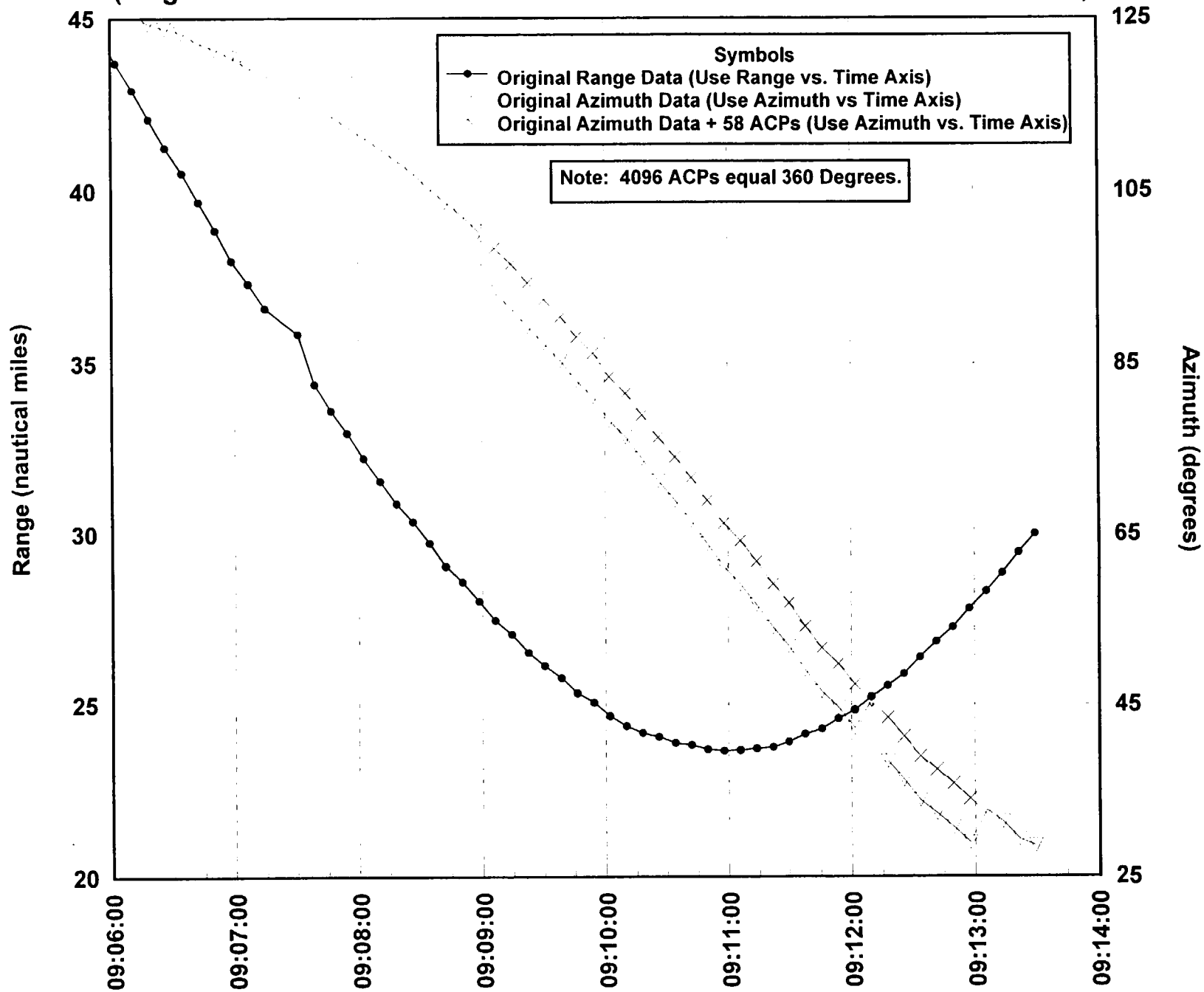
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Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
9:07:54.757	9	7	54.757	29.3035	-12.0996	35000
9:08:02.766	9	8	2.766	28.912	-11.2318	35000
9:08:10.742	9	8	10.742	28.5196	-10.3644	35000
9:08:18.721	9	8	18.721	28.2537	-9.4995	35000
9:08:26.713	9	8	26.713	27.8608	-8.6343	35000
9:08:34.691	9	8	34.691	27.4656	-7.5249	35000
9:08:42.689	9	8	42.689	27.1999	-6.6633	35000
9:08:50.659	9	8	50.659	26.8075	-5.8021	35000
9:08:58.627	9	8	58.627	26.4134	-4.8199	35000
9:09:06.518	9	9	6.518	26.3865	-1.5188	35000
9:09:14.518	9	9	14.518	25.8708	-0.6644	35000
9:09:22.459	9	9	22.459	25.4829	0.3106	35000
9:09:30.441	9	9	30.441	25.0969	1.1623	35000
9:09:38.453	9	9	38.453	24.5848	2.0121	35000
9:09:46.389	9	9	46.389	24.2024	2.9832	35000
9:09:54.384	9	9	54.384	23.6931	3.7086	35000
9:10:02.376	9	10	2.376	23.187	4.7978	35000
9:10:10.322	9	10	10.322	22.8101	5.523	35000
9:10:18.302	9	10	18.302	22.4368	6.4915	35000
9:10:26.274	9	10	26.274	21.9386	7.4577	35000
9:10:34.288	9	10	34.288	21.5692	8.3048	35000
9:10:42.223	9	10	42.223	21.0743	9.1493	35000
9:10:50.210	9	10	50.21	20.5846	10.1172	35000
9:10:58.178	9	10	58.178	20.0982	11.0863	35000
9:11:06.140	9	11	6.14	19.7354	11.8145	35000
9:11:14.119	9	11	14.119	19.25	12.6633	35000
9:11:22.078	9	11	22.078	18.77	13.6379	35000
9:11:30.083	9	11	30.083	18.414	14.4944	35000
9:11:38.026	9	11	38.026	17.8115	15.4699	35000
9:11:45.979	9	11	45.979	17.3354	16.4518	35000
9:11:53.982	9	11	53.982	16.9788	17.1902	35000
9:12:01.957	9	12	1.957	16.5042	18.1773	35000
9:12:10.013	9	12	10.013	17.7358	17.4627	35000
9:12:17.891	9	12	17.891	15.6701	19.7848	35000
9:12:25.850	9	12	25.85	15.1944	20.7781	35000
9:12:33.841	9	12	33.841	14.5942	21.771	35000
9:12:41.824	9	12	41.824	14.2364	22.5193	35000
9:12:49.819	9	12	49.819	13.88	23.3947	35000
9:12:57.820	9	12	57.82	13.3996	24.2689	35000
9:13:05.900	9	13	5.9	15.2562	23.8141	34600
9:13:13.914	9	13	13.914	15.0646	24.7635	31900
9:13:21.866	9	13	21.866	14.5198	25.8757	27000
9:13:29.881	9	13	29.881	14.4744	26.6401	19500

II-16

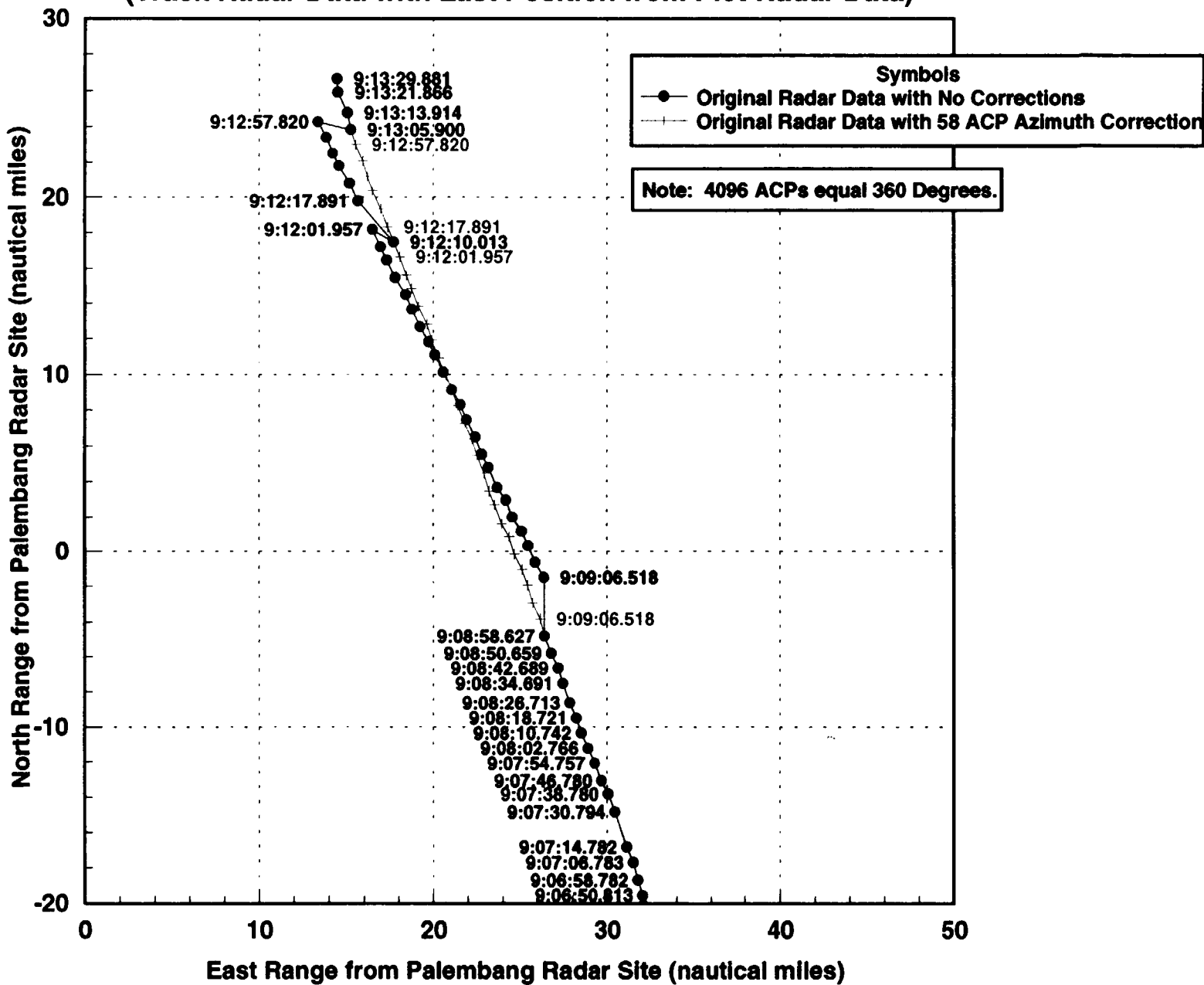
Attachments III – Pertinent Range/Azimuth Correction Files and Graphs

Range versus Time & Azimuth versus Time (Original Track Radar Data with the Last Position from the Plot Radar Data)



III-1

**North Range versus East Range
Azimuth Correction
(Track Radar Data with Last Position from Plot Radar Data)**



C-III

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Fixed Azimuth (deg)	Altitude (ft msl)
8:47:35.168	8	47	35.168	173.945	147.919189	23300
8:47:43.205	8	47	43.205	172.924	147.757263	23500
8:47:51.273	8	47	51.273	172.023	147.765579	23800
8:47:59.266	8	47	59.266	170.963	147.938278	24000
8:48:07.341	8	48	7.341	169.97	147.679764	24300
8:48:23.400	8	48	23.4	168.075	147.827011	24900
8:48:39.480	8	48	39.48	166.114	148.014206	25400
8:48:47.493	8	48	47.493	165.042	148.038254	25700
8:48:55.539	8	48	55.539	164.166	147.951385	26000
8:49:03.613	8	49	3.613	163.201	147.584549	26400
8:49:11.597	8	49	11.597	162.155	147.508011	26700
8:49:19.651	8	49	19.651	161.12	147.590668	26900
8:49:27.671	8	49	27.671	160.132	147.314117	27100
8:49:35.707	8	49	35.707	159.212	147.58284	27300
8:49:43.741	8	49	43.741	158.257	147.792236	27400
8:49:59.797	8	49	59.797	156.231	147.59726	27700
8:50:07.831	8	50	7.831	155.17	147.786316	27900
8:50:23.887	8	50	23.887	153.156	147.75592	28200
8:50:31.929	8	50	31.929	152.098	147.505676	28400
8:50:56.031	8	50	56.031	148.995	147.773727	29400
8:51:04.063	8	51	4.063	147.962	147.865631	29900
8:51:12.125	8	51	12.125	146.969	148.025833	30400
8:51:20.147	8	51	20.147	146.068	148.037415	30700
8:51:28.120	8	51	28.12	145.061	148.023026	31100
8:51:36.183	8	51	36.183	144.028	148.119125	31500
8:51:44.188	8	51	44.188	143.139	147.839706	31900
8:51:52.249	8	51	52.249	142.198	147.78096	32200
8:52:00.262	8	52	0.262	141.245	148.01709	32500
8:52:16.381	8	52	16.381	139.484	148.11171	33000
8:52:24.354	8	52	24.354	138.436	148.026123	33200
8:52:32.423	8	52	32.423	137.667	147.949829	33300
8:52:40.457	8	52	40.457	136.62	147.86174	33400
8:52:48.477	8	52	48.477	135.814	148.208435	33500
8:52:56.485	8	52	56.485	134.805	147.693008	33500
8:53:04.525	8	53	4.525	133.851	147.941528	33600
8:53:12.568	8	53	12.568	132.844	147.925064	33700
8:53:20.615	8	53	20.615	131.998	148.207413	33800
8:53:28.645	8	53	28.645	131.008	148.389862	33900
8:53:36.689	8	53	36.689	129.955	147.780792	34100
8:53:44.727	8	53	44.727	129.094	147.868591	34300
8:53:52.750	8	53	52.75	128.093	148.378479	34500
8:54:00.807	8	54	0.807	127.135	148.113785	34700
8:54:08.832	8	54	8.832	126.315	148.283798	34900
8:54:16.889	8	54	16.889	125.267	148.190445	34900
8:54:24.868	8	54	24.868	124.366	148.205261	34900
8:54:32.963	8	54	32.963	123.278	148.029846	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Fixed Azimuth (deg)	Altitude (ft msl)
8:54:40.965	8	54	40.965	122.418	148.124176	35000
8:54:49.044	8	54	49.044	121.386	148.23909	35000
8:54:57.037	8	54	57.037	120.349	147.794678	35000
8:55:05.073	8	55	5.073	119.382	147.857849	35000
8:55:13.112	8	55	13.112	118.468	147.652832	35000
8:55:21.131	8	55	21.131	117.514	147.935471	35000
8:55:29.205	8	55	29.205	116.467	147.83197	35000
8:55:37.191	8	55	37.191	115.487	147.674072	35000
8:55:53.237	8	55	53.237	113.53	147.35025	35000
8:56:01.277	8	56	1.277	112.639	147.588974	35000
8:56:09.290	8	56	9.29	111.675	146.818481	35000
8:56:17.342	8	56	17.342	110.645	147.165817	35000
8:56:25.382	8	56	25.382	109.744	147.174011	35000
8:56:33.388	8	56	33.388	108.73	146.909439	35000
8:56:41.449	8	56	41.449	107.724	146.879379	35000
8:56:49.453	8	56	49.453	106.75	146.700073	35000
8:56:57.497	8	56	57.497	105.776	146.517151	35000
8:57:05.485	8	57	5.485	104.774	146.729111	35000
8:57:13.554	8	57	13.554	103.836	146.638611	35000
8:57:21.526	8	57	21.526	102.897	146.295441	35000
8:57:29.566	8	57	29.566	101.961	146.199371	35000
8:57:37.642	8	57	37.642	100.896	146.98732	35000
8:57:53.606	8	57	53.606	99.049	146.120178	35000
8:58:01.636	8	58	1.636	98.115	145.755508	35000
8:58:09.651	8	58	9.651	97.09	145.075989	35000
8:58:17.639	8	58	17.639	96.189	145.065826	35000
8:58:25.690	8	58	25.69	95.225	144.846146	35000
8:58:33.676	8	58	33.676	94.355	144.939224	35000
8:58:41.721	8	58	41.721	93.405	144.437546	35000
8:58:49.704	8	58	49.704	92.504	144.420761	35000
8:58:57.769	8	58	57.769	91.545	144.18541	35000
8:59:05.712	8	59	5.712	90.633	143.77092	35000
8:59:13.772	8	59	13.772	89.671	144.210663	35000
8:59:21.796	8	59	21.796	88.713	143.965561	35000
8:59:29.820	8	59	29.82	87.757	143.715027	35000
8:59:37.833	8	59	37.833	86.83	143.574493	35000
8:59:45.864	8	59	45.864	85.903	143.430664	35000
8:59:53.883	8	59	53.883	84.9	142.929947	35000
9:00:01.912	9	0	1.912	84	142.895172	35000
9:00:09.922	9	0	9.922	83.052	142.61824	35000
9:00:17.959	9	0	17.959	82.159	142.143539	35000
9:00:26.010	9	0	26.01	81.062	141.990967	35000
9:00:34.052	9	0	34.052	80.131	142.26561	35000
9:00:42.066	9	0	42.066	79.144	141.713547	35000
9:00:50.109	9	0	50.109	78.246	141.662323	35000
9:00:58.145	9	0	58.145	77.326	141.480026	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Fixed Azimuth (deg)	Altitude (ft msl)
9:01:06.176	9	1	6.176	76.291	141.102631	35000
9:01:14.170	9	1	14.17	75.374	140.908752	35000
9:01:22.231	9	1	22.231	74.459	140.709763	35000
9:01:30.204	9	1	30.204	73.526	140.369202	35000
9:01:38.249	9	1	38.249	72.567	140.512421	35000
9:01:46.268	9	1	46.268	71.621	140.019363	35000
9:01:54.344	9	1	54.344	70.599	139.590134	35000
9:02:02.332	9	2	2.332	69.718	139.650223	35000
9:02:10.366	9	2	10.366	68.727	139.497894	35000
9:02:18.381	9	2	18.381	67.779	138.813644	35000
9:02:26.409	9	2	26.409	66.885	138.714752	35000
9:02:34.421	9	2	34.421	65.898	138.541656	35000
9:02:42.408	9	2	42.408	64.994	138.280884	35000
9:02:50.457	9	2	50.457	64.091	138.012772	35000
9:02:58.442	9	2	58.442	63.173	137.416611	35000
9:03:06.454	9	3	6.454	62.353	136.881256	35000
9:03:14.442	9	3	14.442	61.372	136.666229	35000
9:03:22.478	9	3	22.478	60.569	136.439194	35000
9:03:30.496	9	3	30.496	59.583	135.870377	35000
9:03:38.491	9	3	38.491	58.694	135.540741	35000
9:03:46.515	9	3	46.515	57.894	134.937973	35000
9:03:54.541	9	3	54.541	56.834	134.761383	35000
9:04:02.561	9	4	2.561	56.041	134.308395	35000
9:04:18.599	9	4	18.599	54.198	133.44873	35000
9:04:26.612	9	4	26.612	53.325	133.045761	35000
9:04:34.589	9	4	34.589	52.35	133.10881	35000
9:04:42.598	9	4	42.598	51.502	132.096115	35000
9:04:50.621	9	4	50.621	50.637	131.648331	35000
9:04:58.639	9	4	58.639	49.694	131.076935	35000
9:05:06.656	9	5	6.656	48.931	130.49939	35000
9:05:14.642	9	5	14.642	47.918	129.770706	35000
9:05:22.675	9	5	22.675	47.134	129.578232	35000
9:05:30.677	9	5	30.677	46.209	128.921814	35000
9:05:38.714	9	5	38.714	45.447	128.485474	35000
9:05:46.752	9	5	46.752	44.533	127.781868	35000
9:05:54.748	9	5	54.748	43.702	127.179077	35000
9:06:02.735	9	6	2.735	42.901	126.319611	35000
9:06:10.785	9	6	10.785	42.082	125.664871	35000
9:06:18.752	9	6	18.752	41.26	124.358788	35000
9:06:26.749	9	6	26.749	40.528	123.785637	35000
9:06:34.802	9	6	34.802	39.696	123.290329	35000
9:06:42.799	9	6	42.799	38.876	122.10981	35000
9:06:50.813	9	6	50.813	37.989	121.396164	35000
9:06:58.782	9	6	58.782	37.323	120.452248	35000
9:07:06.783	9	7	6.783	36.606	119.304024	35000
9:07:14.782	9	7	14.782	35.854	118.381004	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	Original Range (nm)	Fixed Azimuth (deg)	Altitude (ft msl)
9:07:30.794	9	7	30.794	34.381	115.949593	35000
9:07:38.780	9	7	38.78	33.612	114.699776	35000
9:07:46.780	9	7	46.78	32.961	113.790787	35000
9:07:54.757	9	7	54.757	32.221	112.436165	35000
9:08:02.766	9	8	2.766	31.546	111.230301	35000
9:08:10.742	9	8	10.742	30.885	109.971985	35000
9:08:18.721	9	8	18.721	30.358	108.583763	35000
9:08:26.713	9	8	26.713	29.73	107.218758	35000
9:08:34.691	9	8	34.691	29.053	105.321686	35000
9:08:42.689	9	8	42.689	28.589	103.765015	35000
9:08:50.659	9	8	50.659	28.025	102.212578	35000
9:08:58.627	9	8	58.627	27.459	100.341667	35000
9:09:06.518	9	9	6.518	27.049	98.393251	35000
9:09:14.518	9	9	14.518	26.511	96.570176	35000
9:09:22.459	9	9	22.459	26.126	94.400666	35000
9:09:30.441	9	9	30.441	25.774	92.447328	35000
9:09:38.453	9	9	38.453	25.329	90.420144	35000
9:09:46.389	9	9	46.389	25.055	88.072046	35000
9:09:54.384	9	9	54.384	24.662	86.202752	35000
9:10:02.376	9	10	2.376	24.367	83.408326	35000
9:10:10.322	9	10	10.322	24.164	81.487809	35000
9:10:18.302	9	10	18.302	24.055	78.962465	35000
9:10:26.274	9	10	26.274	23.875	76.324258	35000
9:10:34.288	9	10	34.288	23.818	74.040689	35000
9:10:42.223	9	10	42.223	23.684	71.631067	35000
9:10:50.210	9	10	50.21	23.647	68.925187	35000
9:10:58.178	9	10	58.178	23.663	66.217591	35000
9:11:06.140	9	11	6.14	23.71	64.192407	35000
9:11:14.119	9	11	14.119	23.749	61.760705	35000
9:11:22.078	9	11	22.078	23.904	59.097467	35000
9:11:30.083	9	11	30.083	24.13	56.891252	35000
9:11:38.026	9	11	38.026	24.283	54.123533	35000
9:11:45.979	9	11	45.979	24.582	51.596914	35000
9:11:53.982	9	11	53.982	24.837	49.744436	35000
9:12:01.957	9	12	1.957	25.217	47.337117	35000
9:12:10.013	9	12	10.013	25.546	45.4445	35000
9:12:17.891	9	12	17.891	25.886	43.479238	35000
9:12:25.850	9	12	25.85	26.376	41.275792	35000
9:12:33.841	9	12	33.841	26.834	38.934751	35000
9:12:41.824	9	12	41.824	27.256	37.399362	35000
9:12:49.819	9	12	49.819	27.804	35.779517	35000
9:12:57.820	9	12	57.82	28.313	34.003387	35000
9:13:05.900	9	13	5.9	28.848	32.6451	34600
9:13:13.914	9	13	13.914	29.456	31.313774	31900
9:13:21.866	9	13	21.866	30.001	29.298414	27000
9:13:29.881	9	13	29.881	30.487	28.516659	19500

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
8:47:35.168	8	47	35.168	92.3627	-147.3477	23300
8:47:43.205	8	47	43.205	92.2335	-146.2217	23500
8:47:51.273	8	47	51.273	91.731	-145.4718	23800
8:47:59.266	8	47	59.266	90.7289	-144.8485	24000
8:48:07.341	8	48	7.341	90.8498	-143.5973	24300
8:48:23.400	8	48	23.4	89.4699	-142.2238	24900
8:48:39.480	8	48	39.48	87.9646	-140.8499	25400
8:48:47.493	8	48	47.493	87.3372	-139.9759	25700
8:48:55.539	8	48	55.539	87.0836	-139.0995	26000
8:49:03.613	8	49	3.613	87.454	-137.7227	26400
8:49:11.597	8	49	11.597	87.0751	-136.7221	26700
8:49:19.651	8	49	19.651	86.3223	-135.9727	26900
8:49:27.671	8	49	27.671	86.4434	-134.7218	27100
8:49:35.707	8	49	35.707	85.3167	-134.3481	27300
8:49:43.741	8	49	43.741	84.3157	-133.8502	27400
8:49:59.797	8	49	59.797	83.6838	-131.85	27700
8:50:07.831	8	50	7.831	82.6819	-131.2266	27900
8:50:23.887	8	50	23.887	81.6757	-129.4773	28200
8:50:31.929	8	50	31.929	81.6713	-128.2257	28400
8:50:56.031	8	50	56.031	79.4122	-125.9757	29400
8:51:04.063	8	51	4.063	78.6588	-125.2254	29900
8:51:12.125	8	51	12.125	77.7808	-124.5997	30400
8:51:20.147	8	51	20.147	77.2774	-123.8491	30700
8:51:28.120	8	51	28.12	76.7737	-122.973	31100
8:51:36.183	8	51	36.183	76.0202	-122.2219	31500
8:51:44.188	8	51	44.188	76.1405	-121.0946	31900
8:51:52.249	8	51	52.249	75.7616	-120.2183	32200
8:52:00.262	8	52	0.262	74.7594	-119.719	32500
8:52:16.381	8	52	16.381	73.629	-118.3433	33000
8:52:24.354	8	52	24.354	73.2496	-117.3424	33200
8:52:32.423	8	52	32.423	72.9971	-116.5919	33300
8:52:40.457	8	52	40.457	72.6185	-115.5917	33400
8:52:48.477	8	52	48.477	71.4924	-115.3428	33500
8:52:56.485	8	52	56.485	71.9874	-113.8415	33500
8:53:04.525	8	53	4.525	70.9858	-113.3429	33600
8:53:12.568	8	53	12.568	70.4827	-112.4679	33700
8:53:20.615	8	53	20.615	69.4812	-112.0936	33800
8:53:28.645	8	53	28.645	68.6042	-111.4698	33900
8:53:36.689	8	53	36.689	69.2225	-109.8414	34100
8:53:44.727	8	53	44.727	68.595	-109.2163	34300
8:53:52.750	8	53	52.75	67.0943	-108.968	34500
8:54:00.807	8	54	0.807	67.0896	-107.8414	34700
8:54:08.832	8	54	8.832	66.337	-107.3404	34900
8:54:16.889	8	54	16.889	65.9589	-106.3407	34900
8:54:24.868	8	54	24.868	65.4561	-105.5911	34900
8:54:32.963	8	54	32.963	65.202	-104.4656	35000
8:54:40.965	8	54	40.965	64.5753	-103.8417	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
8:54:49.044	8	54	49.044	63.8231	-103.0926	35000
8:54:57.037	8	54	57.037	64.0675	-101.716	35000
8:55:05.073	8	55	5.073	63.4402	-100.9669	35000
8:55:13.112	8	55	13.112	63.3115	-99.9661	35000
8:55:21.131	8	55	21.131	62.3105	-99.4678	35000
8:55:29.205	8	55	29.205	61.932	-98.4677	35000
8:55:37.191	8	55	37.191	61.6784	-97.4675	35000
8:55:53.237	8	55	53.237	61.1712	-95.4676	35000
8:56:01.277	8	56	1.277	60.2947	-94.9684	35000
8:56:09.290	8	56	9.29	61.038	-93.3412	35000
8:56:17.342	8	56	17.342	59.9118	-92.8428	35000
8:56:25.382	8	56	25.382	59.4094	-92.0933	35000
8:56:33.388	8	56	33.388	59.2797	-90.9672	35000
8:56:41.449	8	56	41.449	58.7769	-90.0924	35000
8:56:49.453	8	56	49.453	58.5231	-89.0927	35000
8:56:57.497	8	56	57.497	58.2691	-88.0919	35000
8:57:05.485	8	57	5.485	57.3923	-87.4678	35000
8:57:13.554	8	57	13.554	57.0137	-86.5924	35000
8:57:21.526	8	57	21.526	57.0095	-85.467	35000
8:57:29.566	8	57	29.566	56.6312	-84.5923	35000
8:57:37.642	8	57	37.642	54.8814	-84.4686	35000
8:57:53.606	8	57	53.606	55.1221	-82.0924	35000
8:58:01.636	8	58	1.636	55.117	-80.9665	35000
8:58:09.651	8	58	9.651	55.4855	-79.4653	35000
8:58:17.639	8	58	17.639	54.9827	-78.7155	35000
8:58:25.690	8	58	25.69	54.7281	-77.7145	35000
8:58:33.676	8	58	33.676	54.1011	-77.0899	35000
8:58:41.721	8	58	41.721	54.2204	-75.8389	35000
8:58:49.704	8	58	49.704	53.7174	-75.0888	35000
8:58:57.769	8	58	57.769	53.4631	-74.0884	35000
8:59:05.712	8	59	5.712	53.4576	-72.9625	35000
8:59:13.772	8	59	13.772	52.3323	-72.5887	35000
8:59:21.796	8	59	21.796	52.0776	-71.5879	35000
8:59:29.820	8	59	29.82	51.8232	-70.5872	35000
8:59:37.833	8	59	37.833	51.4445	-69.7124	35000
8:59:45.864	8	59	45.864	51.0658	-68.8369	35000
8:59:53.883	8	59	53.883	51.0595	-67.5858	35000
9:00:01.912	9	0	1.912	50.5563	-66.8354	35000
9:00:09.922	9	0	9.922	50.3018	-65.8352	35000
9:00:17.959	9	0	17.959	50.2961	-64.7094	35000
9:00:26.010	9	0	26.01	49.7911	-63.7087	35000
9:00:34.052	9	0	34.052	48.9139	-63.2085	35000
9:00:42.066	9	0	42.066	48.9075	-61.9575	35000
9:00:50.109	9	0	50.109	48.4044	-61.2075	35000
9:00:58.145	9	0	58.145	48.0243	-60.3314	35000
9:01:06.176	9	1	6.176	47.7689	-59.206	35000
9:01:14.170	9	1	14.17	47.3891	-58.3302	35000

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
9:01:22.231	9	1	22.231	47.0103	-57.4551	35000
9:01:30.204	9	1	30.204	46.754	-56.4539	35000
9:01:38.249	9	1	38.249	46.001	-55.8281	35000
9:01:46.268	9	1	46.268	45.87	-54.703	35000
9:01:54.344	9	1	54.344	45.6138	-53.5771	35000
9:02:02.332	9	2	2.332	44.9852	-52.9512	35000
9:02:10.366	9	2	10.366	44.48	-52.0753	35000
9:02:18.381	9	2	18.381	44.4722	-50.8244	35000
9:02:26.409	9	2	26.409	43.9678	-50.0733	35000
9:02:34.421	9	2	34.421	43.463	-49.1978	35000
9:02:42.408	9	2	42.408	43.0825	-48.3221	35000
9:02:50.457	9	2	50.457	42.7016	-47.4461	35000
9:02:58.442	9	2	58.442	42.5693	-46.3205	35000
9:03:06.454	9	3	6.454	42.4374	-45.3197	35000
9:03:14.442	9	3	14.442	41.931	-44.4434	35000
9:03:22.478	9	3	22.478	41.5509	-43.6924	35000
9:03:30.496	9	3	30.496	41.2929	-42.5668	35000
9:03:38.491	9	3	38.491	40.9115	-41.691	35000
9:03:46.515	9	3	46.515	40.7788	-40.6904	35000
9:03:54.541	9	3	54.541	40.1475	-39.8144	35000
9:04:02.561	9	4	2.561	39.8906	-38.9389	35000
9:04:18.599	9	4	18.599	39.125	-37.0616	35000
9:04:26.612	9	4	26.612	38.743	-36.1862	35000
9:04:34.589	9	4	34.589	37.9871	-35.5585	35000
9:04:42.598	9	4	42.598	37.9765	-34.3096	35000
9:04:50.621	9	4	50.621	37.593	-33.4332	35000
9:04:58.639	9	4	58.639	37.2089	-32.4329	35000
9:05:06.656	9	5	6.656	36.9498	-31.5573	35000
9:05:14.642	9	5	14.642	36.5639	-30.4322	35000
9:05:22.675	9	5	22.675	36.0572	-29.806	35000
9:05:30.677	9	5	30.677	35.6711	-28.8053	35000
9:05:38.714	9	5	38.714	35.2882	-28.0548	35000
9:05:46.752	9	5	46.752	34.9017	-27.0548	35000
9:05:54.748	9	5	54.748	34.5166	-26.1796	35000
9:06:02.735	9	6	2.735	34.2543	-25.1802	35000
9:06:10.785	9	6	10.785	33.8682	-24.3052	35000
9:06:18.752	9	6	18.752	33.7283	-23.0585	35000
9:06:26.749	9	6	26.749	33.3427	-22.3088	35000
9:06:34.802	9	6	34.802	32.8316	-21.5583	35000
9:06:42.799	9	6	42.799	32.5667	-20.4367	35000
9:06:50.813	9	6	50.813	32.0529	-19.5622	35000
9:06:58.782	9	6	58.782	31.7899	-18.6899	35000
9:07:06.783	9	7	6.783	31.5251	-17.6939	35000
9:07:14.782	9	7	14.782	31.1359	-16.8217	35000
9:07:30.794	9	7	30.794	30.4789	-14.8323	35000
9:07:38.780	9	7	38.78	30.0863	-13.8379	35000
9:07:46.780	9	7	46.78	29.6972	-13.0923	35000

trk4la58xy.xls

Original Radar Times						
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	Altitude
9:07:54.757	9	7	54.757	29.3035	-12.0996	35000
9:08:02.766	9	8	2.766	28.912	-11.2318	35000
9:08:10.742	9	8	10.742	28.5196	-10.3644	35000
9:08:18.721	9	8	18.721	28.2537	-9.4995	35000
9:08:26.713	9	8	26.713	27.8608	-8.6343	35000
9:08:34.691	9	8	34.691	27.4656	-7.5249	35000
9:08:42.689	9	8	42.689	27.1999	-6.6633	35000
9:08:50.659	9	8	50.659	26.8075	-5.8021	35000
9:08:58.627	9	8	58.627	26.4134	-4.8199	35000
9:09:06.518	9	9	6.518	26.1471	-3.8579	35000
9:09:14.518	9	9	14.518	25.7093	-2.9611	35000
9:09:22.459	9	9	22.459	25.4096	-1.9554	35000
9:09:30.441	9	9	30.441	25.1009	-1.0728	35000
9:09:38.453	9	9	38.453	24.6664	-0.1808	35000
9:09:46.389	9	9	46.389	24.3718	0.8204	35000
9:09:54.384	9	9	54.384	23.929	1.5882	35000
9:10:02.376	9	10	2.376	23.5216	2.7181	35000
9:10:10.322	9	10	10.322	23.2107	3.4739	35000
9:10:18.302	9	10	18.302	22.9249	4.4718	35000
9:10:26.274	9	10	26.274	22.5146	5.4784	35000
9:10:34.288	9	10	34.288	22.222	6.355	35000
9:10:42.223	9	10	42.223	21.8041	7.2401	35000
9:10:50.210	9	10	50.21	21.4024	8.2477	35000
9:10:58.178	9	10	58.178	21.0039	9.2562	35000
9:11:06.140	9	11	6.14	20.7073	10.0137	35000
9:11:14.119	9	11	14.119	20.2992	10.9023	35000
9:11:22.078	9	11	22.078	19.9078	11.9158	35000
9:11:30.083	9	11	30.083	19.6293	12.8005	35000
9:11:38.026	9	11	38.026	19.1159	13.8257	35000
9:11:45.979	9	11	45.979	18.729	14.8461	35000
9:11:53.982	9	11	53.982	18.4394	15.6132	35000
9:12:01.957	9	12	1.957	18.0544	16.6385	35000
9:12:10.013	9	12	10.013	17.7358	17.4627	35000
9:12:17.891	9	12	17.891	17.3665	18.3138	35000
9:12:25.850	9	12	25.85	16.9809	19.3455	35000
9:12:33.841	9	12	33.841	16.4713	20.3878	35000
9:12:41.824	9	12	41.824	16.1814	21.165	35000
9:12:49.819	9	12	49.819	15.9043	22.0685	35000
9:12:57.820	9	12	57.82	15.5035	22.982	35000
9:13:05.900	9	13	5.9	15.2562	23.8141	34600
9:13:13.914	9	13	13.914	15.0646	24.7635	31900
9:13:21.866	9	13	21.866	14.5198	25.8757	27000
9:13:29.881	9	13	29.881	14.4744	26.6401	19500

III-10

Attachments IV – Data Files: Time Correction

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last Cross	Sweep Time	Sweep Rate	Orig Trck	Orig Az	Orig Az
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	total sec	Sec	%s	Time Messages	(deg)	(ACP)
1		8:47:15.999										
2	97/12/19	8:47:24.148	4	0	8.05	8:47:23.822	31643.822					
3	97/12/19	8:47:32.250	4	0	8.04	8:47:31.862	31651.862	8.040	44.776	8:47:35.168	147.9192	1682.9917
4	97/12/19	8:47:40.345	4	0	8.04	8:47:39.902	31659.902	8.040	44.776	8:47:43.205	147.7573	1681.1493
5	97/12/19	8:47:48.445	4	0	8.06	8:47:47.962	31667.962	8.060	44.665	8:47:51.273	147.7656	1681.2439
6	97/12/19	8:47:56.146	4	0	8.01	8:47:55.971	31675.971	8.009	44.949	8:47:59.266	147.9383	1683.2089
7	97/12/19	8:48:04.247	4	0	8.06	8:48:04.032	31684.032	8.061	44.659	8:48:07.341	147.6798	1680.2675
8	97/12/19	8:48:20.445	4	0	8.05	8:48:20.092	31700.092	16.060	22.416	8:48:23.400	147.8270	1681.9429
9	97/12/19	8:48:36.694	4	0	8.04	8:48:36.172	31716.172	16.080	22.388	8:48:39.480	148.0142	1684.0727
10	97/12/19	8:48:44.397	4	0	8.02	8:48:44.192	31724.192	8.020	44.888	8:48:47.493	148.0383	1684.3464
11	97/12/19	8:48:52.496	4	0	8.04	8:48:52.232	31732.232	8.040	44.776	8:48:55.539	147.9514	1683.3580
12	97/12/19	8:49:00.597	4	0	8.07	8:49:00.302	31740.302	8.070	44.610	8:49:03.613	147.5845	1679.1842
13	97/12/19	8:49:08.695	4	0	8.01	8:49:08.311	31748.311	8.009	44.949	8:49:11.597	147.5080	1678.3134
14	97/12/19	8:49:16.743	4	0	8.04	8:49:16.352	31756.352	8.041	44.771	8:49:19.651	147.5907	1679.2538
15	97/12/19	8:49:24.900	4	0	8.03	8:49:24.381	31764.381	8.029	44.837	8:49:27.671	147.3141	1676.1073
16	97/12/19	8:49:32.641	4	0	8.03	8:49:32.412	31772.412	8.031	44.826	8:49:35.707	147.5828	1679.1648
17	97/12/19	8:49:40.696	4	0	8.03	8:49:40.442	31780.442	8.030	44.832	8:49:43.741	147.7922	1681.5472
18	97/12/19	8:49:56.915	4	0	8.03	8:49:56.502	31796.502	16.060	22.416	8:49:59.797	147.5973	1679.3288
19	97/12/19	8:50:05.019	4	0	8.03	8:50:04.532	31804.532	8.030	44.832	8:50:07.831	147.7863	1681.4799
20	97/12/19	8:50:20.759	4	0	8.02	8:50:20.592	31820.592	16.060	22.416	8:50:23.887	147.7559	1681.1340
21	97/12/19	8:50:28.907	4	0	8.04	8:50:28.631	31828.631	8.039	44.782	8:50:31.929	147.5057	1678.2868
22	97/12/19	8:50:53.208	4	0	8.03	8:50:52.732	31852.732	24.101	14.937	8:50:56.031	147.7737	1681.3366
23	97/12/19	8:51:00.900	4	0	8.03	8:51:00.762	31860.762	8.030	44.832	8:51:04.063	147.8656	1682.3823
24	97/12/19	8:51:08.999	4	0	8.05	8:51:08.811	31868.811	8.049	44.726	8:51:12.125	148.0258	1684.2050
25	97/12/19	8:51:17.106	4	0	8.03	8:51:16.842	31876.842	8.031	44.826	8:51:20.147	148.0374	1684.3368
26	97/12/19	8:51:25.212	4	0	7.99	8:51:24.832	31884.832	7.990	45.056	8:51:28.120	148.0230	1684.1731
27	97/12/19	8:51:33.339	4	0	8.04	8:51:32.872	31892.872	8.040	44.776	8:51:36.183	148.1191	1685.2665
28	97/12/19	8:51:41.436	4	0	8.02	8:51:40.892	31900.892	8.020	44.888	8:51:44.188	147.8397	1682.0873
29	97/12/19	8:51:49.138	4	0	8.05	8:51:48.942	31908.942	8.050	44.720	8:51:52.249	147.7810	1681.4189
30	97/12/19	8:51:57.237	4	0	8.02	8:51:56.962	31916.962	8.020	44.888	8:52:00.262	148.0171	1684.1056
31	97/12/19	8:52:13.488	4	0	8.06	8:52:13.061	31933.061	16.099	22.362	8:52:16.381	148.1117	1685.1821

1-1

r4_time_azref.xls

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time			ΔTime	
	Time to Get	Calc Time	ΔTime	fix certain	fix certain	Calc Time	hh:mm:ss	hh	mm	ss	(Orig Time- NTSB Fixed Time)
	to Target	hh:mm:ss	Orig-Calc	(degs)	(ACPS)	get to target					
1											
2											
3	3.30353	8:47:35.166	0.00247	147.9192	1682.9917	3.30353	8:47:35.166	8	47	35.166	0.00247
4	3.29991	8:47:43.202	0.00309	147.7573	1681.1493	3.29991	8:47:43.202	8	47	43.202	0.00309
5	3.30831	8:47:51.270	0.00269	147.7656	1681.2439	3.30831	8:47:51.270	8	47	51.270	0.00269
6	3.29122	8:47:59.262	0.00378	147.9383	1683.2089	3.29122	8:47:59.262	8	47	59.262	0.00378
7	3.30680	8:48:07.339	0.00220	147.6798	1680.2675	3.30680	8:48:07.339	8	48	7.339	0.00220
8	6.59473	8:48:26.687	-3.28673	147.8270	1681.9429	6.59473	8:48:26.687	8	48	26.687	-3.28673
9	6.61130	8:48:42.783	-3.30330	148.0142	1684.0727	6.61130	8:48:42.783	8	48	42.783	-3.30330
10	3.29796	8:48:47.490	0.00304	148.0383	1684.3464	3.29796	8:48:47.490	8	48	47.490	0.00304
11	3.30425	8:48:55.536	0.00275	147.9514	1683.3580	3.30425	8:48:55.536	8	48	55.536	0.00275
12	3.30835	8:49:03.610	0.00265	147.5845	1679.1842	3.30835	8:49:03.610	8	49	3.610	0.00265
13	3.28164	8:49:11.593	0.00436	147.5080	1678.3134	3.28164	8:49:11.593	8	49	11.593	0.00436
14	3.29660	8:49:19.649	0.00240	147.5907	1679.2538	3.29660	8:49:19.649	8	49	19.649	0.00240
15	3.28551	8:49:27.667	0.00449	147.3141	1676.1073	3.28551	8:49:27.667	8	49	27.667	0.00449
16	3.29233	8:49:35.704	0.00267	147.5828	1679.1648	3.29233	8:49:35.704	8	49	35.704	0.00267
17	3.29659	8:49:43.739	0.00241	147.7922	1681.5472	3.29659	8:49:43.739	8	49	43.739	0.00241
18	6.58448	8:50:03.086	-3.28948	147.5973	1679.3288	6.58448	8:50:03.086	8	50	3.086	-3.28948
19	3.29646	8:50:07.828	0.00254	147.7863	1681.4799	3.29646	8:50:07.828	8	50	7.828	0.00254
20	6.59156	8:50:27.184	-3.29656	147.7559	1681.1340	6.59156	8:50:27.184	8	50	27.184	-3.29656
21	3.29388	8:50:31.925	0.00412	147.5057	1678.2868	3.29388	8:50:31.925	8	50	31.925	0.00412
22	9.89304	8:51:02.625	-6.59404	147.7737	1681.3366	9.89304	8:51:02.625	8	51	2.625	-6.59404
23	3.29823	8:51:04.060	0.00277	147.8656	1682.3823	3.29823	8:51:04.060	8	51	4.060	0.00277
24	3.30961	8:51:12.121	0.00439	148.0258	1684.2050	3.30961	8:51:12.121	8	51	12.121	0.00439
25	3.30247	8:51:20.144	0.00253	148.0374	1684.3368	3.30247	8:51:20.144	8	51	20.144	0.00253
26	3.28529	8:51:28.117	0.00271	148.0230	1684.1731	3.28529	8:51:28.117	8	51	28.117	0.00271
27	3.30799	8:51:36.180	0.00301	148.1191	1685.2665	3.30799	8:51:36.180	8	51	36.180	0.00301
28	3.29354	8:51:44.186	0.00246	147.8397	1682.0873	3.29354	8:51:44.186	8	51	44.186	0.00246
29	3.30455	8:51:52.247	0.00245	147.7810	1681.4189	3.30455	8:51:52.247	8	51	52.247	0.00245
30	3.29749	8:52:00.259	0.00251	148.0171	1684.1056	3.29749	8:52:00.259	8	52	0.259	0.00251
31	6.62347	8:52:19.684	-3.30347	148.1117	1685.1821	6.62347	8:52:19.684	8	52	19.684	-3.30347

2-11

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last Cross	Sweep Time	Sweep Rate	Orig Trck Time	Orig Az (deg)	Orig Az (ACP)
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	total sec	Sec	%s	Messages		
32	97/12/19	8:52:21.494	4	0	8	8:52:21.061	31941.061	8.000	45.000	8:52:24.354	148.0261	1684.2083
33	97/12/19	8:52:29.186	4	0	8.05	8:52:29.112	31949.112	8.051	44.715	8:52:32.423	147.9498	1683.3403
34	97/12/19	8:52:37.336	4	0	8.04	8:52:37.152	31957.152	8.040	44.776	8:52:40.457	147.8617	1682.3380
35	97/12/19	8:52:45.436	4	0	8.02	8:52:45.172	31965.172	8.020	44.888	8:52:48.477	148.2084	1686.2826
36	97/12/19	8:52:53.487	4	0	8.02	8:52:53.192	31973.192	8.020	44.888	8:52:56.485	147.6930	1680.4182
37	97/12/19	8:53:01.591	4	0	8.03	8:53:01.221	31981.221	8.029	44.837	8:53:04.525	147.9415	1683.2458
38	97/12/19	8:53:09.686	4	0	8.04	8:53:09.262	31989.262	8.041	44.771	8:53:12.568	147.9251	1683.0585
39	97/12/19	8:53:17.396	4	0	8.04	8:53:17.302	31997.302	8.040	44.776	8:53:20.615	148.2074	1686.2710
40	97/12/19	8:53:25.495	4	0	8.03	8:53:25.332	32005.332	8.030	44.832	8:53:28.645	148.3899	1688.3469
41	97/12/19	8:53:33.633	4	0	8.05	8:53:33.381	32013.381	8.049	44.726	8:53:36.689	147.7808	1681.4170
42	97/12/19	8:53:41.734	4	0	8.04	8:53:41.422	32021.422	8.041	44.771	8:53:44.727	147.8686	1682.4160
43	97/12/19	8:53:49.833	4	0	8.02	8:53:49.442	32029.442	8.020	44.888	8:53:52.750	148.3785	1688.2174
44	97/12/19	8:53:57.983	4	0	8.05	8:53:57.492	32037.492	8.050	44.720	8:54:00.807	148.1138	1685.2057
45	97/12/19	8:54:05.683	4	0	8.03	8:54:05.522	32045.522	8.030	44.832	8:54:08.832	148.2838	1687.1401
46	97/12/19	8:54:13.783	4	0	8.05	8:54:13.572	32053.572	8.050	44.720	8:54:16.889	148.1904	1686.0780
47	97/12/19	8:54:21.887	4	0	8	8:54:21.572	32061.572	8.000	45.000	8:54:24.868	148.2053	1686.2465
48	97/12/19	8:54:29.987	4	0	8.07	8:54:29.642	32069.642	8.070	44.610	8:54:32.963	148.0298	1684.2507
49	97/12/19	8:54:38.082	4	0	8.02	8:54:37.662	32077.662	8.020	44.888	8:54:40.965	148.1242	1685.3240
50	97/12/19	8:54:46.131	4	0	8.06	8:54:45.721	32085.721	8.059	44.671	8:54:49.044	148.2391	1686.6314
51	97/12/19	8:54:54.231	4	0	8.02	8:54:53.742	32093.742	8.021	44.882	8:54:57.037	147.7947	1681.5750
52	97/12/19	8:55:01.982	4	0	8.03	8:55:01.772	32101.772	8.030	44.832	8:55:05.073	147.8578	1682.2937
53	97/12/19	8:55:10.082	4	0	8.04	8:55:09.811	32109.811	8.039	44.782	8:55:13.112	147.6528	1679.9611
54	97/12/19	8:55:18.187	4	0	8.02	8:55:17.832	32117.832	8.021	44.882	8:55:21.131	147.9355	1683.1769
55	97/12/19	8:55:26.288	4	0	8.06	8:55:25.892	32125.892	8.060	44.665	8:55:29.205	147.8320	1681.9993
56	97/12/19	8:55:34.329	4	0	8.01	8:55:33.902	32133.902	8.010	44.944	8:55:37.191	147.6741	1680.2028
57	97/12/19	8:55:50.183	4	0	8.02	8:55:49.951	32149.951	16.049	22.431	8:55:53.237	147.3503	1676.5184
58	97/12/19	8:55:58.278	4	0	8.03	8:55:57.982	32157.982	8.031	44.826	8:56:01.277	147.5890	1679.2345
59	97/12/19	8:56:06.378	4	0	8.03	8:56:06.012	32166.012	8.030	44.832	8:56:09.290	146.8185	1670.4681
60	97/12/19	8:56:14.483	4	0	8.04	8:56:14.052	32174.052	8.040	44.776	8:56:17.342	147.1658	1674.4200
61	97/12/19	8:56:22.579	4	0	8.04	8:56:22.092	32182.092	8.040	44.776	8:56:25.382	147.1740	1674.5132
62	97/12/19	8:56:30.279	4	0	8.02	8:56:30.112	32190.112	8.020	44.888	8:56:33.388	146.9094	1671.5030

IV
3

r4_time_azref.xls

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time			ΔTime	
	Time to Get to Target	Calc Time hh:mm:ss	ΔTime Orig-Calc	fix certain (degs)	fix certain (ACPS)	Calc Time get to target	hh:mm:ss	hh	mm	ss	(Orig Time- NTSB Fixed Time)
32	3.28947	8:52:24.350	0.00353	148.0261	1684.2083	3.28947	8:52:24.350	8	52	24.350	0.00353
33	3.30873	8:52:32.421	0.00227	147.9498	1683.3403	3.30873	8:52:32.421	8	52	32.421	0.00227
34	3.30225	8:52:40.454	0.00275	147.8617	1682.3380	3.30225	8:52:40.454	8	52	40.454	0.00275
35	3.30175	8:52:48.474	0.00325	148.2084	1686.2826	3.30175	8:52:48.474	8	52	48.474	0.00325
36	3.29027	8:52:56.482	0.00273	147.6930	1680.4182	3.29027	8:52:56.482	8	52	56.482	0.00273
37	3.29951	8:53:04.521	0.00449	147.9415	1683.2458	3.29951	8:53:04.521	8	53	4.521	0.00449
38	3.30407	8:53:12.566	0.00193	147.9251	1683.0585	3.30407	8:53:12.566	8	53	12.566	0.00193
39	3.30997	8:53:20.612	0.00303	148.2074	1686.2710	3.30997	8:53:20.612	8	53	20.612	0.00303
40	3.30992	8:53:28.642	0.00308	148.3899	1688.3469	3.30992	8:53:28.642	8	53	28.642	0.00308
41	3.30413	8:53:36.685	0.00387	147.7808	1681.4170	3.30413	8:53:36.685	8	53	36.685	0.00387
42	3.30281	8:53:44.725	0.00219	147.8686	1682.4160	3.30281	8:53:44.725	8	53	44.725	0.00219
43	3.30554	8:53:52.748	0.00246	148.3785	1688.2174	3.30554	8:53:52.748	8	53	52.748	0.00246
44	3.31199	8:54:00.804	0.00301	148.1138	1685.2057	3.31199	8:54:00.804	8	54	0.804	0.00301
45	3.30755	8:54:08.830	0.00245	148.2838	1687.1401	3.30755	8:54:08.830	8	54	8.830	0.00245
46	3.31370	8:54:16.886	0.00330	148.1904	1686.0780	3.31370	8:54:16.886	8	54	16.886	0.00330
47	3.29345	8:54:24.865	0.00255	148.2053	1686.2465	3.29345	8:54:24.865	8	54	24.865	0.00255
48	3.31834	8:54:32.960	0.00266	148.0298	1684.2507	3.31834	8:54:32.960	8	54	32.960	0.00266
49	3.29988	8:54:40.962	0.00312	148.1242	1685.3240	3.29988	8:54:40.962	8	54	40.962	0.00312
50	3.31850	8:54:49.039	0.00450	148.2391	1686.6314	3.31850	8:54:49.039	8	54	49.039	0.00450
51	3.29295	8:54:57.035	0.00205	147.7947	1681.5750	3.29295	8:54:57.035	8	54	57.035	0.00205
52	3.29805	8:55:05.070	0.00295	147.8578	1682.2937	3.29805	8:55:05.070	8	55	5.070	0.00295
53	3.29717	8:55:13.108	0.00383	147.6528	1679.9611	3.29717	8:55:13.108	8	55	13.108	0.00383
54	3.29608	8:55:21.128	0.00292	147.9355	1683.1769	3.29608	8:55:21.128	8	55	21.128	0.00292
55	3.30979	8:55:29.202	0.00321	147.8320	1681.9993	3.30979	8:55:29.202	8	55	29.202	0.00321
56	3.28575	8:55:37.188	0.00325	147.6741	1680.2028	3.28575	8:55:37.188	8	55	37.188	0.00325
57	6.56896	8:55:56.520	-3.28296	147.3503	1676.5184	6.56896	8:55:56.520	8	55	56.520	-3.28296
58	3.29246	8:56:01.274	0.00254	147.5890	1679.2345	3.29246	8:56:01.274	8	56	1.274	0.00254
59	3.27487	8:56:09.287	0.00313	146.8185	1670.4681	3.27487	8:56:09.287	8	56	9.287	0.00313
60	3.28670	8:56:17.339	0.00330	147.1658	1674.4200	3.28670	8:56:17.339	8	56	17.339	0.00330
61	3.28689	8:56:25.379	0.00311	147.1740	1674.5132	3.28689	8:56:25.379	8	56	25.379	0.00311
62	3.27282	8:56:33.385	0.00318	146.9094	1671.5030	3.27282	8:56:33.385	8	56	33.385	0.00318

IV-4

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last Cross	Sweep Time	Sweep Rate	Orig Trck Time	Orig Az (deg)	Orig Az (ACP)
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	total sec	Sec	°/s	Messages		
63	97/12/19	8:56:38.377	4	0	8.05	8:56:38.162	32198.162	8.050	44.720	8:56:41.449	146.8794	1671.1609
64	97/12/19	8:56:46.484	4	0	8.02	8:56:46.182	32206.182	8.020	44.888	8:56:49.453	146.7001	1669.1208
65	97/12/19	8:56:54.577	4	0	8.04	8:56:54.221	32214.221	8.039	44.782	8:56:57.497	146.5172	1667.0396
66	97/12/19	8:57:02.677	4	0	8	8:57:02.221	32222.221	8.000	45.000	8:57:05.485	146.7291	1669.4512
67	97/12/19	8:57:10.376	4	0	8.05	8:57:10.272	32230.272	8.051	44.715	8:57:13.554	146.6386	1668.4215
68	97/12/19	8:57:18.480	4	0	8	8:57:18.272	32238.272	8.000	45.000	8:57:21.526	146.2954	1664.5170
69	97/12/19	8:57:26.579	4	0	8.03	8:57:26.302	32246.302	8.030	44.832	8:57:29.566	146.1994	1663.4240
70	97/12/19	8:57:34.627	4	0	8.05	8:57:34.352	32254.352	8.050	44.720	8:57:37.642	146.9873	1672.3891
71	97/12/19	8:57:50.476	4	0	8.01	8:57:50.352	32270.352	16.000	22.500	8:57:53.606	146.1202	1662.5229
72	97/12/19	8:57:58.574	4	0	8.03	8:57:58.381	32278.381	8.029	44.837	8:58:01.636	145.7555	1658.3738
73	97/12/19	8:58:06.675	4	0	8.03	8:58:06.412	32286.412	8.031	44.826	8:58:09.651	145.0760	1650.6424
74	97/12/19	8:58:14.726	4	0	8	8:58:14.412	32294.412	8.000	45.000	8:58:17.639	145.0658	1650.5267
75	97/12/19	8:58:22.975	4	0	8.04	8:58:22.451	32302.451	8.039	44.782	8:58:25.690	144.8461	1648.0273
76	97/12/19	8:58:30.577	4	0	8	8:58:30.451	32310.451	8.000	45.000	8:58:33.676	144.9392	1649.0863
77	97/12/19	8:58:38.722	4	0	8.04	8:58:38.492	32318.492	8.041	44.771	8:58:41.721	144.4375	1643.3783
78	97/12/19	8:58:46.878	4	0	8	8:58:46.492	32326.492	8.000	45.000	8:58:49.704	144.4208	1643.1873
79	97/12/19	8:58:54.921	4	0	8.05	8:58:54.542	32334.542	8.050	44.720	8:58:57.769	144.1854	1640.5096
80	97/12/19	8:59:03.021	4	0	7.98	8:59:02.522	32342.522	7.980	45.113	8:59:05.712	143.7709	1635.7936
81	97/12/19	8:59:10.720	4	0	8.03	8:59:10.552	32350.552	8.030	44.832	8:59:13.772	144.2107	1640.7969
82	97/12/19	8:59:18.773	4	0	8.03	8:59:18.582	32358.582	8.030	44.832	8:59:21.796	143.9656	1638.0082
83	97/12/19	8:59:26.931	4	0	8.03	8:59:26.612	32366.612	8.030	44.832	8:59:29.820	143.7150	1635.1576
84	97/12/19	8:59:34.971	4	0	8.02	8:59:34.631	32374.631	8.019	44.893	8:59:37.833	143.5745	1633.5587
85	97/12/19	8:59:43.121	4	0	8.03	8:59:42.662	32382.662	8.031	44.826	8:59:45.864	143.4307	1631.9222
86	97/12/19	8:59:50.787	4	0	8.03	8:59:50.692	32390.692	8.030	44.832	8:59:53.883	142.9299	1626.2252
87	97/12/19	8:59:58.870	4	0	8.03	8:59:58.721	32398.721	8.029	44.837	9:00:01.912	142.8952	1625.8295
88	97/12/19	9:00:07.018	4	0	8.02	9:00:06.742	32406.742	8.021	44.882	9:00:09.922	142.6182	1622.6786
89	97/12/19	9:00:15.171	4	0	8.04	9:00:14.782	32414.782	8.040	44.776	9:00:17.959	142.1435	1617.2776
90	97/12/19	9:00:23.275	4	0	8.05	9:00:22.832	32422.832	8.050	44.720	9:00:26.010	141.9910	1615.5417
91	97/12/19	9:00:31.377	4	0	8.04	9:00:30.872	32430.872	8.040	44.776	9:00:34.052	142.2656	1618.6665
92	97/12/19	9:00:39.067	4	0	8.03	9:00:38.902	32438.902	8.030	44.832	9:00:42.066	141.7135	1612.3852
93	97/12/19	9:00:47.168	4	0	8.04	9:00:46.942	32446.942	8.040	44.776	9:00:50.109	141.6623	1611.8024

IV
5

r4_time_azref.xls

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time				ΔTime
	Time to Get	Calc Time	ΔTime	fix certain	fix certain	Calc Time	hh:mm:ss	hh	mm	ss	(Orig Time- NTSB Fixed Time)
	to Target	hh:mm:ss	Orig-Calc	(degs)	(ACPS)	get to target					
63	3.28439	8:56:41.446	0.00261	146.8794	1671.1609	3.28439	8:56:41.446	8	56	41.446	0.00261
64	3.26815	8:56:49.450	0.00285	146.7001	1669.1208	3.26815	8:56:49.450	8	56	49.450	0.00285
65	3.27181	8:56:57.493	0.00419	146.5172	1667.0396	3.27181	8:56:57.493	8	56	57.493	0.00419
66	3.26065	8:57:05.482	0.00335	146.7291	1669.4512	3.26065	8:57:05.482	8	57	5.482	0.00335
67	3.27941	8:57:13.551	0.00259	146.6386	1668.4215	3.27941	8:57:13.551	8	57	13.551	0.00259
68	3.25101	8:57:21.523	0.00299	146.2954	1664.5170	3.25101	8:57:21.523	8	57	21.523	0.00299
69	3.26106	8:57:29.563	0.00294	146.1994	1663.4240	3.26106	8:57:29.563	8	57	29.563	0.00294
70	3.28680	8:57:37.639	0.00320	146.9873	1672.3891	3.28680	8:57:37.639	8	57	37.639	0.00320
71	6.49423	8:57:56.846	-3.24023	146.1202	1662.5229	6.49423	8:57:56.846	8	57	56.846	-3.24023
72	3.25075	8:58:01.632	0.00425	145.7555	1658.3738	3.25075	8:58:01.632	8	58	1.632	0.00425
73	3.23640	8:58:09.648	0.00260	145.0760	1650.6424	3.23640	8:58:09.648	8	58	9.648	0.00260
74	3.22369	8:58:17.636	0.00331	145.0658	1650.5267	3.22369	8:58:17.636	8	58	17.636	0.00331
75	3.23449	8:58:25.685	0.00451	144.8461	1648.0273	3.23449	8:58:25.685	8	58	25.685	0.00451
76	3.22087	8:58:33.672	0.00413	144.9392	1649.0863	3.22087	8:58:33.672	8	58	33.672	0.00413
77	3.22617	8:58:41.718	0.00283	144.4375	1643.3783	3.22617	8:58:41.718	8	58	41.718	0.00283
78	3.20935	8:58:49.701	0.00265	144.4208	1643.1873	3.20935	8:58:49.701	8	58	49.701	0.00265
79	3.22415	8:58:57.766	0.00285	144.1854	1640.5096	3.22415	8:58:57.766	8	58	57.766	0.00285
80	3.18692	8:59:05.709	0.00308	143.7709	1635.7936	3.18692	8:59:05.709	8	59	5.709	0.00308
81	3.21670	8:59:13.769	0.00330	144.2107	1640.7969	3.21670	8:59:13.769	8	59	13.769	0.00330
82	3.21123	8:59:21.793	0.00277	143.9656	1638.0082	3.21123	8:59:21.793	8	59	21.793	0.00277
83	3.20564	8:59:29.818	0.00236	143.7150	1635.1576	3.20564	8:59:29.818	8	59	29.818	0.00236
84	3.19812	8:59:37.829	0.00388	143.5745	1633.5587	3.19812	8:59:37.829	8	59	37.829	0.00388
85	3.19970	8:59:45.862	0.00230	143.4307	1631.9222	3.19970	8:59:45.862	8	59	45.862	0.00230
86	3.18813	8:59:53.880	0.00287	142.9299	1626.2252	3.18813	8:59:53.880	8	59	53.880	0.00287
87	3.18696	9:00:01.908	0.00404	142.8952	1625.8295	3.18696	9:00:01.908	9	0	1.908	0.00404
88	3.17761	9:00:09.920	0.00239	142.6182	1622.6786	3.17761	9:00:09.920	9	0	9.920	0.00239
89	3.17454	9:00:17.957	0.00246	142.1435	1617.2776	3.17454	9:00:17.957	9	0	17.957	0.00246
90	3.17508	9:00:26.007	0.00292	141.9910	1615.5417	3.17508	9:00:26.007	9	0	26.007	0.00292
91	3.17727	9:00:34.049	0.00273	142.2656	1618.6665	3.17727	9:00:34.049	9	0	34.049	0.00273
92	3.16100	9:00:42.063	0.00300	141.7135	1612.3852	3.16100	9:00:42.063	9	0	42.063	0.00300
93	3.16379	9:00:50.106	0.00321	141.6623	1611.8024	3.16379	9:00:50.106	9	0	50.106	0.00321

9-IV

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last Cross	Sweep Time	Sweep Rate	Orig Trck Time	Orig Az (deg)	Orig Az (ACP)
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	total sec	Sec	%s	Messages		
94	97/12/19	9:00:55.280	4	0	8.04	9:00:54.982	32454.982	8.040	44.776	9:00:58.145	141.4800	1609.7283
95	97/12/19	9:01:03.367	4	0	8.04	9:01:03.022	32463.022	8.040	44.776	9:01:06.176	141.1026	1605.4344
96	97/12/19	9:01:11.468	4	0	8.01	9:01:11.032	32471.032	8.010	44.944	9:01:14.170	140.9088	1603.2285
97	97/12/19	9:01:19.517	4	0	8.05	9:01:19.082	32479.082	8.050	44.720	9:01:22.231	140.7098	1600.9644
98	97/12/19	9:01:27.219	4	0	8	9:01:27.082	32487.082	8.000	45.000	9:01:30.204	140.3692	1597.0896
99	97/12/19	9:01:35.366	4	0	8.03	9:01:35.112	32495.112	8.030	44.832	9:01:38.249	140.5124	1598.7191
100	97/12/19	9:01:43.418	4	0	8.03	9:01:43.142	32503.142	8.030	44.832	9:01:46.268	140.0194	1593.1092
101	97/12/19	9:01:51.521	4	0	8.07	9:01:51.212	32511.212	8.070	44.610	9:01:54.344	139.5901	1588.2255
102	97/12/19	9:01:59.617	4	0	8.01	9:01:59.221	32519.221	8.009	44.949	9:02:02.332	139.6502	1588.9092
103	97/12/19	9:02:07.721	4	0	8.03	9:02:07.252	32527.252	8.031	44.826	9:02:10.366	139.4979	1587.1760
104	97/12/19	9:02:15.421	4	0	8.03	9:02:15.282	32535.282	8.030	44.832	9:02:18.381	138.8136	1579.3908
105	97/12/19	9:02:23.517	4	0	8.03	9:02:23.311	32543.311	8.029	44.837	9:02:26.409	138.7148	1578.2656
106	97/12/19	9:02:31.615	4	0	8.02	9:02:31.332	32551.332	8.021	44.882	9:02:34.421	138.5417	1576.2962
107	97/12/19	9:02:39.717	4	0	8	9:02:39.332	32559.332	8.000	45.000	9:02:42.408	138.2809	1573.3292
108	97/12/19	9:02:47.832	4	0	8.04	9:02:47.372	32567.372	8.040	44.776	9:02:50.457	138.0128	1570.2787
109	97/12/19	9:02:55.515	4	0	8.01	9:02:55.381	32575.381	8.009	44.949	9:02:58.442	137.4166	1563.4957
110	97/12/19	9:03:03.614	4	0	8.02	9:03:03.402	32583.402	8.021	44.882	9:03:06.454	136.8813	1557.4045
111	97/12/19	9:03:11.717	4	0	8	9:03:11.402	32591.402	8.000	45.000	9:03:14.442	136.6662	1554.9580
112	97/12/19	9:03:19.818	4	0	8.03	9:03:19.432	32599.432	8.030	44.832	9:03:22.478	136.4392	1552.3748
113	97/12/19	9:03:27.915	4	0	8.03	9:03:27.462	32607.462	8.030	44.832	9:03:30.496	135.8704	1545.9030
114	97/12/19	9:03:35.614	4	0	8.01	9:03:35.471	32615.471	8.009	44.949	9:03:38.491	135.5407	1542.1524
115	97/12/19	9:03:43.761	4	0	8.03	9:03:43.502	32623.502	8.031	44.826	9:03:46.515	134.9380	1535.2943
116	97/12/19	9:03:51.862	4	0	8.03	9:03:51.532	32631.532	8.030	44.832	9:03:54.541	134.7614	1533.2851
117	97/12/19	9:03:59.962	4	0	8.03	9:03:59.561	32639.561	8.029	44.837	9:04:02.561	134.3084	1528.1311
118	97/12/19	9:04:15.776	4	0	8.05	9:04:15.612	32655.612	16.051	22.429	9:04:18.599	133.4487	1518.3500
119	97/12/19	9:04:23.863	4	0	8.03	9:04:23.642	32663.642	8.030	44.832	9:04:26.612	133.0458	1513.7651
120	97/12/19	9:04:31.961	4	0	7.99	9:04:31.631	32671.631	7.989	45.062	9:04:34.589	133.1088	1514.4825
121	97/12/19	9:04:40.059	4	0	8.02	9:04:39.652	32679.652	8.021	44.882	9:04:42.598	132.0961	1502.9602
122	97/12/19	9:04:48.161	4	0	8.03	9:04:47.682	32687.682	8.030	44.832	9:04:50.621	131.6483	1497.8655
123	97/12/19	9:04:55.824	4	0	8.03	9:04:55.712	32695.712	8.030	44.832	9:04:58.639	131.0769	1491.3642
124	97/12/19	9:05:03.960	4	0	8.03	9:05:03.742	32703.742	8.030	44.832	9:05:06.656	130.4994	1484.7931

L-7

r4_time_azref.xls

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time			ΔTime	
	Time to Get	Calc Time	ΔTime	fix certain	fix certain	Calc Time	hh:mm:ss	hh	mm	ss	(Orig Time- NTSB Fixed Time)
	to Target	hh:mm:ss	Orig-Calc	(degs)	(ACPS)	get to target					
94	3.15972	9:00:58.142	0.00328	141.4800	1609.7283	3.15972	9:00:58.142	9	0	58.142	0.00328
95	3.15129	9:01:06.173	0.00271	141.1026	1605.4344	3.15129	9:01:06.173	9	1	6.173	0.00271
96	3.13522	9:01:14.167	0.00278	140.9088	1603.2285	3.13522	9:01:14.167	9	1	14.167	0.00278
97	3.14643	9:01:22.228	0.00257	140.7098	1600.9644	3.14643	9:01:22.228	9	1	22.228	0.00257
98	3.11932	9:01:30.201	0.00268	140.3692	1597.0896	3.11932	9:01:30.201	9	1	30.201	0.00268
99	3.13421	9:01:38.246	0.00279	140.5124	1598.7191	3.13421	9:01:38.246	9	1	38.246	0.00279
100	3.12321	9:01:46.265	0.00279	140.0194	1593.1092	3.12321	9:01:46.265	9	1	46.265	0.00279
101	3.12915	9:01:54.341	0.00285	139.5901	1588.2255	3.12915	9:01:54.341	9	1	54.341	0.00285
102	3.10683	9:02:02.328	0.00417	139.6502	1588.9092	3.10683	9:02:02.328	9	2	2.328	0.00417
103	3.11197	9:02:10.364	0.00203	139.4979	1587.1760	3.11197	9:02:10.364	9	2	10.364	0.00203
104	3.09632	9:02:18.378	0.00268	138.8136	1579.3908	3.09632	9:02:18.378	9	2	18.378	0.00268
105	3.09372	9:02:26.405	0.00428	138.7148	1578.2656	3.09372	9:02:26.405	9	2	26.405	0.00428
106	3.08679	9:02:34.419	0.00221	138.5417	1576.2962	3.08679	9:02:34.419	9	2	34.419	0.00221
107	3.07291	9:02:42.405	0.00309	138.2809	1573.3292	3.07291	9:02:42.405	9	2	42.405	0.00309
108	3.08229	9:02:50.454	0.00271	138.0128	1570.2787	3.08229	9:02:50.454	9	2	50.454	0.00271
109	3.05714	9:02:58.438	0.00386	137.4166	1563.4957	3.05714	9:02:58.438	9	2	58.438	0.00386
110	3.04979	9:03:06.452	0.00221	136.8813	1557.4045	3.04979	9:03:06.452	9	3	6.452	0.00221
111	3.03703	9:03:14.439	0.00297	136.6662	1554.9580	3.03703	9:03:14.439	9	3	14.439	0.00297
112	3.04335	9:03:22.475	0.00265	136.4392	1552.3748	3.04335	9:03:22.475	9	3	22.475	0.00265
113	3.03066	9:03:30.493	0.00334	135.8704	1545.9030	3.03066	9:03:30.493	9	3	30.493	0.00334
114	3.01540	9:03:38.486	0.00460	135.5407	1542.1524	3.01540	9:03:38.486	9	3	38.486	0.00460
115	3.01024	9:03:46.512	0.00276	134.9380	1535.2943	3.01024	9:03:46.512	9	3	46.512	0.00276
116	3.00593	9:03:54.538	0.00307	134.7614	1533.2851	3.00593	9:03:54.538	9	3	54.538	0.00307
117	2.99545	9:04:02.556	0.00455	134.3084	1528.1311	2.99545	9:04:02.556	9	4	2.556	0.00455
118	5.94996	9:04:21.562	-2.96296	133.4487	1518.3500	5.94996	9:04:21.562	9	4	21.562	-2.96296
119	2.96766	9:04:26.610	0.00234	133.0458	1513.7651	2.96766	9:04:26.610	9	4	26.610	0.00234
120	2.95391	9:04:34.585	0.00409	133.1088	1514.4825	2.95391	9:04:34.585	9	4	34.585	0.00409
121	2.94317	9:04:42.595	0.00283	132.0961	1502.9602	2.94317	9:04:42.595	9	4	42.595	0.00283
122	2.93649	9:04:50.618	0.00251	131.6483	1497.8655	2.93649	9:04:50.618	9	4	50.618	0.00251
123	2.92374	9:04:58.636	0.00326	131.0769	1491.3642	2.92374	9:04:58.636	9	4	58.636	0.00326
124	2.91086	9:05:06.653	0.00314	130.4994	1484.7931	2.91086	9:05:06.653	9	5	6.653	0.00314

B-V

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last Cross	Sweep	Sweep	Orig Trck	Orig Az	Orig Az
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	total sec	Time Sec	Rate %/s	Time Messages	(deg)	(ACP)
125	97/12/19	9:05:12.059	4	0	8.01	9:05:11.752	32711.752	8.010	44.944	9:05:14.642	129.7707	1476.5023
126	97/12/19	9:05:20.158	4	0	8.03	9:05:19.782	32719.782	8.030	44.832	9:05:22.675	129.5782	1474.3123
127	97/12/19	9:05:28.257	4	0	8.02	9:05:27.802	32727.802	8.020	44.888	9:05:30.677	128.9218	1466.8438
128	97/12/19	9:05:36.359	4	0	8.04	9:05:35.842	32735.842	8.040	44.776	9:05:38.714	128.4855	1461.8792
129	97/12/19	9:05:44.018	4	0	8.05	9:05:43.892	32743.892	8.050	44.720	9:05:46.752	127.7819	1453.8737
130	97/12/19	9:05:52.157	4	0	8.02	9:05:51.912	32751.912	8.020	44.888	9:05:54.748	127.1791	1447.0153
131	97/12/19	9:06:00.256	4	0	8.01	9:05:59.922	32759.922	8.010	44.944	9:06:02.735	126.3196	1437.2365
132	97/12/19	9:06:08.357	4	0	8.05	9:06:07.971	32767.971	8.049	44.726	9:06:10.785	125.6649	1429.7870
133	97/12/19	9:06:16.511	4	0	8.01	9:06:15.981	32775.981	8.010	44.944	9:06:18.752	124.3588	1414.9267
134	97/12/19	9:06:24.157	4	0	8.01	9:06:23.992	32783.992	8.011	44.938	9:06:26.749	123.7856	1408.4055
135	97/12/19	9:06:32.312	4	0	8.05	9:06:32.042	32792.042	8.050	44.720	9:06:34.802	123.2903	1402.7700
136	97/12/19	9:06:40.406	4	0	8.03	9:06:40.072	32800.072	8.030	44.832	9:06:42.799	122.1098	1389.3383
137	97/12/19	9:06:48.508	4	0	8.03	9:06:48.102	32808.102	8.030	44.832	9:06:50.813	121.3962	1381.2186
138	97/12/19	9:06:56.605	4	0	8	9:06:56.102	32816.102	8.000	45.000	9:06:58.782	120.4522	1370.4789
139	97/12/19	9:07:04.307	4	0	8.02	9:07:04.122	32824.122	8.020	44.888	9:07:06.783	119.3040	1357.4147
140	97/12/19	9:07:12.409	4	0	8.02	9:07:12.142	32832.142	8.020	44.888	9:07:14.782	118.3810	1346.9128
141	97/12/19	9:07:28.554	4	0	8.04	9:07:28.201	32848.201	16.059	22.417	9:07:30.794	115.9496	1319.2487
142	97/12/19	9:07:36.707	4	0	8.02	9:07:36.222	32856.222	8.021	44.882	9:07:38.780	114.6998	1305.0286
143	97/12/19	9:07:44.353	4	0	8.02	9:07:44.242	32864.242	8.020	44.888	9:07:46.780	113.7908	1294.6863
144	97/12/19	9:07:52.505	4	0	8.01	9:07:52.252	32872.252	8.010	44.944	9:07:54.757	112.4362	1279.2737
145	97/12/19	9:08:00.607	4	0	8.03	9:08:00.282	32880.282	8.030	44.832	9:08:02.766	111.2303	1265.5536
146	97/12/19	9:08:08.707	4	0	8.01	9:08:08.292	32888.292	8.010	44.944	9:08:10.742	109.9720	1251.2368
147	97/12/19	9:08:16.805	4	0	8.01	9:08:16.301	32896.301	8.009	44.949	9:08:18.721	108.5838	1235.4419
148	97/12/19	9:08:24.502	4	0	8.02	9:08:24.322	32904.322	8.021	44.882	9:08:26.713	107.2188	1219.9112
149	97/12/19	9:08:32.606	4	0	8.02	9:08:32.341	32912.341	8.019	44.893	9:08:34.691	105.3217	1198.3267
150	97/12/19	9:08:40.705	4	0	8.03	9:08:40.372	32920.372	8.031	44.826	9:08:42.689	103.7650	1180.6153
151	97/12/19	9:08:48.804	4	0	8.01	9:08:48.381	32928.381	8.009	44.949	9:08:50.659	102.2126	1162.9520
152	97/12/19	9:08:56.502	4	0	8.01	9:08:56.392	32936.392	8.011	44.938	9:08:58.627	100.3417	1141.6652
153	97/12/19	9:09:04.601	4	0	8.04	9:09:04.432	32944.432	8.040	44.776	9:09:06.518	93.2944	1061.4824
154	97/12/19	9:09:12.704	4	0	8.04	9:09:12.472	32952.472	8.040	44.776	9:09:14.518	91.4713	1040.7398
155	97/12/19	9:09:20.802	4	0	8	9:09:20.472	32960.472	8.000	45.000	9:09:22.459	89.3018	1016.0556

b-VI
9

IV-16

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time				ΔTime
	Time to Get to Target	Calc Time hh:mm:ss	ΔTime Orig-Calc	fix certain (degs)	fix certain (ACPS)	Calc Time get to target	hh:mm:ss	hh	mm	ss	(Orig Time- NTSB Fixed Time)
125	2.88740	9:05:14.639	0.00260	129.7707	1476.5023	2.88740	9:05:14.639	9	5	14.639	0.00260
126	2.89031	9:05:22.672	0.00269	129.5782	1474.3123	2.89031	9:05:22.672	9	5	22.672	0.00269
127	2.87209	9:05:30.674	0.00291	128.9218	1466.8438	2.87209	9:05:30.674	9	5	30.674	0.00291
128	2.86951	9:05:38.712	0.00249	128.4855	1461.8792	2.86951	9:05:38.712	9	5	38.712	0.00249
129	2.85734	9:05:46.749	0.00266	127.7819	1453.8737	2.85734	9:05:46.749	9	5	46.749	0.00266
130	2.83327	9:05:54.745	0.00273	127.1791	1447.0153	2.83327	9:05:54.745	9	5	54.745	0.00273
131	2.81061	9:06:02.733	0.00239	126.3196	1437.2365	2.81061	9:06:02.733	9	6	2.733	0.00239
132	2.80966	9:06:10.781	0.00434	125.6649	1429.7870	2.80966	9:06:10.781	9	6	10.781	0.00434
133	2.76698	9:06:18.748	0.00402	124.3588	1414.9267	2.76698	9:06:18.748	9	6	18.748	0.00402
134	2.75457	9:06:26.747	0.00243	123.7856	1408.4055	2.75457	9:06:26.747	9	6	26.747	0.00243
135	2.75691	9:06:34.799	0.00309	123.2903	1402.7700	2.75691	9:06:34.799	9	6	34.799	0.00309
136	2.72373	9:06:42.796	0.00327	122.1098	1389.3383	2.72373	9:06:42.796	9	6	42.796	0.00327
137	2.70781	9:06:50.810	0.00319	121.3962	1381.2186	2.70781	9:06:50.810	9	6	50.810	0.00319
138	2.67672	9:06:58.779	0.00328	120.4522	1370.4789	2.67672	9:06:58.779	9	6	58.779	0.00328
139	2.65783	9:07:06.780	0.00317	119.3040	1357.4147	2.65783	9:07:06.780	9	7	6.780	0.00317
140	2.63727	9:07:14.779	0.00273	118.3810	1346.9128	2.63727	9:07:14.779	9	7	14.779	0.00273
141	5.17232	9:07:33.373	-2.57932	115.9496	1319.2487	5.17232	9:07:33.373	9	7	33.373	-2.57932
142	2.55557	9:07:38.778	0.00243	114.6998	1305.0286	2.55557	9:07:38.778	9	7	38.778	0.00243
143	2.53501	9:07:46.777	0.00299	113.7908	1294.6863	2.53501	9:07:46.777	9	7	46.777	0.00299
144	2.50170	9:07:54.754	0.00330	112.4362	1279.2737	2.50170	9:07:54.754	9	7	54.754	0.00330
145	2.48105	9:08:02.763	0.00295	111.2303	1265.5536	2.48105	9:08:02.763	9	8	2.763	0.00295
146	2.44688	9:08:10.739	0.00312	109.9720	1251.2368	2.44688	9:08:10.739	9	8	10.739	0.00312
147	2.41569	9:08:18.717	0.00431	108.5838	1235.4419	2.41569	9:08:18.717	9	8	18.717	0.00431
148	2.38889	9:08:26.711	0.00211	107.2188	1219.9112	2.38889	9:08:26.711	9	8	26.711	0.00211
149	2.34604	9:08:34.687	0.00396	105.3217	1198.3267	2.34604	9:08:34.687	9	8	34.687	0.00396
150	2.31482	9:08:42.687	0.00218	103.7650	1180.6153	2.31482	9:08:42.687	9	8	42.687	0.00218
151	2.27395	9:08:50.655	0.00405	102.2126	1162.9520	2.27395	9:08:50.655	9	8	50.655	0.00405
152	2.23288	9:08:58.625	0.00212	100.3417	1141.6652	2.23288	9:08:58.625	9	8	58.625	0.00212
153	2.08357	9:09:06.516	0.00243	98.3933	1119.4965	2.19745	9:09:06.629	9	9	6.629	-0.11145
154	2.04286	9:09:14.515	0.00314	96.5702	1098.7540	2.15673	9:09:14.629	9	9	14.629	-0.11073
155	1.98448	9:09:22.456	0.00252	94.4007	1074.0698	2.09779	9:09:22.570	9	9	22.570	-0.11079

r4_time_azref.xls

	A	B	C	D	E	F	G	H	I	J	K	L
	Original Data: Az Reference Messages						Last	Sweep	Sweep	Orig Trck	Orig Az	Orig Az
	Rec Date	Rec Time	Radar ID	Ref Az	Sweep Duration	Last Cross hh:mm:ss	Cross total sec	Time Sec	Rate %/s	Time Messages	(deg)	(ACP)
156	97/12/19	9:09:28.907	4	0	8.02	9:09:28.492	32968.492	8.020	44.888	9:09:30.441	87.3484	993.8310
157	97/12/19	9:09:37.011	4	0	8.05	9:09:36.542	32976.542	8.050	44.720	9:09:38.453	85.3212	970.7661
158	97/12/19	9:09:44.710	4	0	8	9:09:44.542	32984.542	8.000	45.000	9:09:46.389	82.9731	944.0500
159	97/12/19	9:09:52.815	4	0	8.03	9:09:52.572	32992.572	8.030	44.832	9:09:54.384	81.1039	922.7816
160	97/12/19	9:10:00.913	4	0	8.05	9:10:00.622	33000.622	8.050	44.720	9:10:02.376	78.3094	890.9872
161	97/12/19	9:10:09.009	4	0	8	9:10:08.622	33008.622	8.000	45.000	9:10:10.322	76.3889	869.1360
162	97/12/19	9:10:17.112	4	0	8.03	9:10:16.652	33016.652	8.030	44.832	9:10:18.302	73.8636	840.4032
163	97/12/19	9:10:24.812	4	0	8.03	9:10:24.682	33024.682	8.030	44.832	9:10:26.274	71.2254	810.3863
164	97/12/19	9:10:32.902	4	0	8.06	9:10:32.742	33032.742	8.060	44.665	9:10:34.288	68.9418	784.4043
165	97/12/19	9:10:40.998	4	0	8	9:10:40.742	33040.742	8.000	45.000	9:10:42.223	66.5322	756.9882
166	97/12/19	9:10:49.099	4	0	8.04	9:10:48.782	33048.782	8.040	44.776	9:10:50.210	63.8263	726.2013
167	97/12/19	9:10:57.199	4	0	8.03	9:10:56.811	33056.811	8.029	44.837	9:10:58.178	61.1187	695.3949
168	97/12/19	9:11:04.897	4	0	8.01	9:11:04.822	33064.822	8.011	44.938	9:11:06.140	59.0935	672.3528
169	97/12/19	9:11:12.998	4	0	8.03	9:11:12.852	33072.852	8.030	44.832	9:11:14.119	56.6618	644.6854
170	97/12/19	9:11:21.097	4	0	8.02	9:11:20.872	33080.872	8.020	44.888	9:11:22.078	53.9986	614.3837
171	97/12/19	9:11:29.199	4	0	8.05	9:11:28.922	33088.922	8.050	44.720	9:11:30.083	51.7924	589.2819
172	97/12/19	9:11:37.298	4	0	8.01	9:11:36.932	33096.932	8.010	44.944	9:11:38.026	49.0246	557.7914
173	97/12/19	9:11:45.395	4	0	8.01	9:11:44.941	33104.941	8.009	44.949	9:11:45.979	46.4980	529.0441
174	97/12/19	9:11:53.096	4	0	8.04	9:11:52.981	33112.981	8.040	44.776	9:11:53.982	44.6455	507.9670
175	97/12/19	9:12:01.196	4	0	8.03	9:12:01.012	33121.012	8.031	44.826	9:12:01.957	42.2382	480.5770
176	97/12/19	9:12:09.295	4	0	7.99	9:12:09.002	33129.002	7.990	45.056	9:12:10.013	45.4445	517.0574
177	97/12/19	9:12:17.396	4	0	8.03	9:12:17.032	33137.032	8.030	44.832	9:12:17.891	38.3803	436.6829
178	97/12/19	9:12:25.496	4	0	8.01	9:12:25.042	33145.042	8.010	44.944	9:12:25.850	36.1769	411.6126
179	97/12/19	9:12:33.254	4	0	8.04	9:12:33.082	33153.082	8.040	44.776	9:12:33.841	33.8359	384.9768
180	97/12/19	9:12:41.353	4	0	8.02	9:12:41.102	33161.102	8.020	44.888	9:12:41.824	32.3005	367.5075
181	97/12/19	9:12:49.453	4	0	8.03	9:12:49.131	33169.131	8.029	44.837	9:12:49.819	30.6806	349.0772
182	97/12/19	9:12:57.504	4	0	8.04	9:12:57.172	33177.172	8.041	44.771	9:12:57.820	28.9045	328.8688
183	97/12/19	9:13:05.651	4	0	8	9:13:05.172	33185.172	8.000	45.000	9:13:05.900	32.6451	371.4287
184	97/12/19	9:13:13.306	4	0	8.04	9:13:13.212	33193.212	8.040	44.776	9:13:13.914	31.3138	356.2812
185	97/12/19	9:13:21.451	4	0	8	9:13:21.212	33201.212	8.000	45.000	9:13:21.866	29.2984	333.3508
186	97/12/19	9:13:29.596	4	0	8.03	9:13:29.242	33209.242	8.030	44.832	9:13:29.881	28.5167	324.4562

11-11

r4_time_azref.xls

	M	N	O	P	Q	R	S	T	U	V	W
	Checking the Orig Track Times			Az+58 ACP	Az+58 ACP	Updated	NTSB Fixed Time			ΔTime	
	Time to Get to Target	Calc Time hh:mm:ss	ΔTime Orig-Calc	fix certain (degs)	fix certain (ACPS)	Calc Time get to target	hh:mm:ss	hh	mm	ss	(Orig Time-NTSB Fixed Time)
156	1.94593	9:09:30.438	0.00307	92.4473	1051.8452	2.05952	9:09:30.552	9	9	30.552	-0.11052
157	1.90788	9:09:38.450	0.00312	90.4201	1028.7803	2.02189	9:09:38.564	9	9	38.564	-0.11089
158	1.84385	9:09:46.386	0.00315	88.0720	1002.0642	1.95716	9:09:46.499	9	9	46.499	-0.11016
159	1.80907	9:09:54.381	0.00293	86.2028	980.7958	1.92280	9:09:54.495	9	9	54.495	-0.11080
160	1.75109	9:10:02.373	0.00291	83.4088	949.0014	1.86510	9:10:02.487	9	10	2.487	-0.11110
161	1.69753	9:10:10.320	0.00247	81.4878	927.1502	1.81084	9:10:10.433	9	10	10.433	-0.11084
162	1.64757	9:10:18.300	0.00243	78.9625	898.4174	1.76130	9:10:18.413	9	10	18.413	-0.11130
163	1.58872	9:10:26.271	0.00328	76.3243	868.4004	1.70245	9:10:26.384	9	10	26.384	-0.11045
164	1.54353	9:10:34.286	0.00247	74.0407	842.4185	1.65769	9:10:34.400	9	10	34.400	-0.11169
165	1.47849	9:10:42.220	0.00251	71.6311	815.0024	1.59180	9:10:42.334	9	10	42.334	-0.11080
166	1.42545	9:10:50.207	0.00255	68.9252	784.2155	1.53933	9:10:50.321	9	10	50.321	-0.11133
167	1.36312	9:10:58.174	0.00388	66.2176	753.4090	1.47684	9:10:58.288	9	10	58.288	-0.10984
168	1.31499	9:11:06.137	0.00301	64.1924	730.3669	1.42846	9:11:06.250	9	11	6.250	-0.11046
169	1.26387	9:11:14.116	0.00313	61.7607	702.6996	1.37761	9:11:14.230	9	11	14.230	-0.11061
170	1.20297	9:11:22.075	0.00303	59.0975	672.3978	1.31656	9:11:22.189	9	11	22.189	-0.11056
171	1.15813	9:11:30.080	0.00287	56.8913	647.2960	1.27215	9:11:30.194	9	11	30.194	-0.11115
172	1.09080	9:11:38.023	0.00320	54.1236	615.8055	1.20425	9:11:38.136	9	11	38.136	-0.11025
173	1.03445	9:11:45.975	0.00355	51.5969	587.0582	1.14789	9:11:46.089	9	11	46.089	-0.10989
174	0.99708	9:11:53.978	0.00392	49.7444	565.9811	1.11096	9:11:54.092	9	11	54.092	-0.10996
175	0.94226	9:12:01.954	0.00274	47.3371	538.5912	1.05601	9:12:02.068	9	12	2.068	-0.11101
176	1.00862	9:12:10.011	0.00238	45.4445	517.0574	1.00862	9:12:10.011	9	12	10.011	0.00238
177	0.85609	9:12:17.888	0.00291	43.4792	494.6971	0.96983	9:12:18.002	9	12	18.002	-0.11083
178	0.80494	9:12:25.847	0.00306	41.2758	469.6268	0.91839	9:12:25.960	9	12	25.960	-0.11039
179	0.75567	9:12:33.838	0.00333	38.9348	442.9909	0.86954	9:12:33.952	9	12	33.952	-0.11054
180	0.71958	9:12:41.822	0.00242	37.3994	425.5216	0.83317	9:12:41.935	9	12	41.935	-0.11117
181	0.68426	9:12:49.815	0.00374	35.7795	407.0914	0.79798	9:12:49.929	9	12	49.929	-0.10998
182	0.64561	9:12:57.818	0.00239	34.0034	386.8830	0.75950	9:12:57.932	9	12	57.932	-0.11150
183	0.72545	9:13:05.897	0.00255	32.6451	371.4287	0.72545	9:13:05.897	9	13	5.897	0.00255
184	0.69934	9:13:13.911	0.00266	31.3138	356.2812	0.69934	9:13:13.911	9	13	13.911	0.00266
185	0.65108	9:13:21.863	0.00292	29.2984	333.3508	0.65108	9:13:21.863	9	13	21.863	0.00292
186	0.63608	9:13:29.878	0.00292	28.5167	324.4562	0.63608	9:13:29.878	9	13	29.878	0.00292

IV-12

trk4fixratime.xls

NTSB Fixed Time			Range	Fixed Azimuth	Altitude	Radars	
hh:mm:ss	hh	mm	ss	(nm)	(deg)	(ft)	Source
8:47:35	8	47	35.166	173.945	147.919189	23300	4
8:47:43	8	47	43.202	172.924	147.757263	23500	4
8:47:51	8	47	51.270	172.023	147.765579	23800	4
8:47:59	8	47	59.262	170.963	147.938278	24000	4
8:48:07	8	48	7.339	169.970	147.679764	24300	4
8:48:27	8	48	26.687	168.075	147.827011	24900	4
8:48:43	8	48	42.783	166.114	148.014206	25400	4
8:48:47	8	48	47.490	165.042	148.038254	25700	4
8:48:56	8	48	55.536	164.166	147.951385	26000	4
8:49:04	8	49	3.610	163.201	147.584549	26400	4
8:49:12	8	49	11.593	162.155	147.508011	26700	4
8:49:20	8	49	19.649	161.120	147.590668	26900	4
8:49:28	8	49	27.667	160.132	147.314117	27100	4
8:49:36	8	49	35.704	159.212	147.58284	27300	4
8:49:44	8	49	43.739	158.257	147.792236	27400	4
8:50:03	8	50	3.086	156.231	147.59726	27700	4
8:50:08	8	50	7.828	155.170	147.786316	27900	4
8:50:27	8	50	27.184	153.156	147.75592	28200	4
8:50:32	8	50	31.925	152.098	147.505676	28400	4
8:51:03	8	51	2.625	148.995	147.773727	29400	4
8:51:04	8	51	4.060	147.962	147.865631	29900	4
8:51:12	8	51	12.121	146.969	148.025833	30400	4
8:51:20	8	51	20.144	146.068	148.037415	30700	4
8:51:28	8	51	28.117	145.061	148.023026	31100	4
8:51:36	8	51	36.180	144.028	148.119125	31500	4
8:51:44	8	51	44.186	143.139	147.839706	31900	4
8:51:52	8	51	52.247	142.198	147.78096	32200	4
8:52:00	8	52	0.259	141.245	148.01709	32500	4
8:52:20	8	52	19.684	139.484	148.11171	33000	4
8:52:24	8	52	24.350	138.436	148.026123	33200	4
8:52:32	8	52	32.421	137.667	147.949829	33300	4
8:52:40	8	52	40.454	136.620	147.86174	33400	4
8:52:48	8	52	48.474	135.814	148.208435	33500	4
8:52:56	8	52	56.482	134.805	147.693008	33500	4
8:53:05	8	53	4.521	133.851	147.941528	33600	4
8:53:13	8	53	12.566	132.844	147.925064	33700	4
8:53:21	8	53	20.612	131.998	148.207413	33800	4
8:53:29	8	53	28.642	131.008	148.389862	33900	4
8:53:37	8	53	36.685	129.955	147.780792	34100	4
8:53:45	8	53	44.725	129.094	147.868591	34300	4
8:53:53	8	53	52.748	128.093	148.378479	34500	4
8:54:01	8	54	0.804	127.135	148.113785	34700	4
8:54:09	8	54	8.830	126.315	148.283798	34900	4
8:54:17	8	54	16.886	125.267	148.190445	34900	4
8:54:25	8	54	24.865	124.366	148.205261	34900	4
8:54:33	8	54	32.960	123.278	148.029846	35000	4

NTSB Fixed Time	Range			Fixed Azimuth	Altitude	Radars	
hh:mm:ss	hh	mm	ss	(nm)	(deg)	(ft)	Source
8:54:41	8	54	40.962	122.418	148.124176	35000	4
8:54:49	8	54	49.039	121.386	148.23909	35000	4
8:54:57	8	54	57.035	120.349	147.794678	35000	4
8:55:05	8	55	5.070	119.382	147.857849	35000	4
8:55:13	8	55	13.108	118.468	147.652832	35000	4
8:55:21	8	55	21.128	117.514	147.935471	35000	4
8:55:29	8	55	29.202	116.467	147.83197	35000	4
8:55:37	8	55	37.188	115.487	147.674072	35000	4
8:55:57	8	55	56.520	113.530	147.35025	35000	4
8:56:01	8	56	1.274	112.639	147.588974	35000	4
8:56:09	8	56	9.287	111.675	146.818481	35000	4
8:56:17	8	56	17.339	110.645	147.165817	35000	4
8:56:25	8	56	25.379	109.744	147.174011	35000	4
8:56:33	8	56	33.385	108.730	146.909439	35000	4
8:56:41	8	56	41.446	107.724	146.879379	35000	4
8:56:49	8	56	49.450	106.750	146.700073	35000	4
8:56:57	8	56	57.493	105.776	146.517151	35000	4
8:57:05	8	57	5.482	104.774	146.729111	35000	4
8:57:14	8	57	13.551	103.836	146.638611	35000	4
8:57:22	8	57	21.523	102.897	146.295441	35000	4
8:57:30	8	57	29.563	101.961	146.199371	35000	4
8:57:38	8	57	37.639	100.896	146.98732	35000	4
8:57:57	8	57	56.846	99.049	146.120178	35000	4
8:58:02	8	58	1.632	98.115	145.755508	35000	4
8:58:10	8	58	9.648	97.090	145.075989	35000	4
8:58:18	8	58	17.636	96.189	145.065826	35000	4
8:58:26	8	58	25.685	95.225	144.846146	35000	4
8:58:34	8	58	33.672	94.355	144.939224	35000	4
8:58:42	8	58	41.718	93.405	144.437546	35000	4
8:58:50	8	58	49.701	92.504	144.420761	35000	4
8:58:58	8	58	57.766	91.545	144.18541	35000	4
8:59:06	8	59	5.709	90.633	143.77092	35000	4
8:59:14	8	59	13.769	89.671	144.210663	35000	4
8:59:22	8	59	21.793	88.713	143.965561	35000	4
8:59:30	8	59	29.818	87.757	143.715027	35000	4
8:59:38	8	59	37.829	86.830	143.574493	35000	4
8:59:46	8	59	45.862	85.903	143.430664	35000	4
8:59:54	8	59	53.880	84.900	142.929947	35000	4
9:00:02	9	0	1.908	84.000	142.895172	35000	4
9:00:10	9	0	9.920	83.052	142.61824	35000	4
9:00:18	9	0	17.957	82.159	142.143539	35000	4
9:00:26	9	0	26.007	81.062	141.990967	35000	4
9:00:34	9	0	34.049	80.131	142.26561	35000	4
9:00:42	9	0	42.063	79.144	141.713547	35000	4
9:00:50	9	0	50.106	78.246	141.662323	35000	4
9:00:58	9	0	58.142	77.326	141.480026	35000	4

NTSB Fixed Time			Range	Fixed Azimuth	Altitude	Radar	
hh:mm:ss	hh	mm	ss	(nm)	(deg)	(ft)	Source
9:01:06	9	1	6.173	76.291	141.102631	35000	4
9:01:14	9	1	14.167	75.374	140.908752	35000	4
9:01:22	9	1	22.228	74.459	140.709763	35000	4
9:01:30	9	1	30.201	73.526	140.369202	35000	4
9:01:38	9	1	38.246	72.567	140.512421	35000	4
9:01:46	9	1	46.265	71.621	140.019363	35000	4
9:01:54	9	1	54.341	70.599	139.590134	35000	4
9:02:02	9	2	2.328	69.718	139.650223	35000	4
9:02:10	9	2	10.364	68.727	139.497894	35000	4
9:02:18	9	2	18.378	67.779	138.813644	35000	4
9:02:26	9	2	26.405	66.885	138.714752	35000	4
9:02:34	9	2	34.419	65.898	138.541656	35000	4
9:02:42	9	2	42.405	64.994	138.280884	35000	4
9:02:50	9	2	50.454	64.091	138.012772	35000	4
9:02:58	9	2	58.438	63.173	137.416611	35000	4
9:03:06	9	3	6.452	62.353	136.881256	35000	4
9:03:14	9	3	14.439	61.372	136.666229	35000	4
9:03:22	9	3	22.475	60.569	136.439194	35000	4
9:03:30	9	3	30.493	59.583	135.870377	35000	4
9:03:38	9	3	38.486	58.694	135.540741	35000	4
9:03:47	9	3	46.512	57.894	134.937973	35000	4
9:03:55	9	3	54.538	56.834	134.761383	35000	4
9:04:03	9	4	2.556	56.041	134.308395	35000	4
9:04:22	9	4	21.562	54.198	133.44873	35000	4
9:04:27	9	4	26.610	53.325	133.045761	35000	4
9:04:35	9	4	34.585	52.350	133.10881	35000	4
9:04:43	9	4	42.595	51.502	132.096115	35000	4
9:04:51	9	4	50.618	50.637	131.648331	35000	4
9:04:59	9	4	58.636	49.694	131.076935	35000	4
9:05:07	9	5	6.653	48.931	130.49939	35000	4
9:05:15	9	5	14.639	47.918	129.770706	35000	4
9:05:23	9	5	22.672	47.134	129.578232	35000	4
9:05:31	9	5	30.674	46.209	128.921814	35000	4
9:05:39	9	5	38.712	45.447	128.485474	35000	4
9:05:47	9	5	46.749	44.533	127.781868	35000	4
9:05:55	9	5	54.745	43.702	127.179077	35000	4
9:06:03	9	6	2.733	42.901	126.319611	35000	4
9:06:11	9	6	10.781	42.082	125.664871	35000	4
9:06:19	9	6	18.748	41.260	124.358788	35000	4
9:06:27	9	6	26.747	40.528	123.785637	35000	4
9:06:35	9	6	34.799	39.696	123.290329	35000	4
9:06:43	9	6	42.796	38.876	122.10981	35000	4
9:06:51	9	6	50.810	37.989	121.396164	35000	4
9:06:59	9	6	58.779	37.323	120.452248	35000	4
9:07:07	9	7	6.780	36.606	119.304024	35000	4
9:07:15	9	7	14.779	35.854	118.381004	35000	4

NTSB Fixed Time			Range	Fixed Azimuth	Altitude	Radar	
hh:mm:ss	hh	mm	ss	(nm)	(deg)	(ft)	Source
9:07:33	9	7	33.373	34.381	115.949593	35000	4
9:07:39	9	7	38.778	33.612	114.699776	35000	4
9:07:47	9	7	46.777	32.961	113.790787	35000	4
9:07:55	9	7	54.754	32.221	112.436165	35000	4
9:08:03	9	8	2.763	31.546	111.230301	35000	4
9:08:11	9	8	10.739	30.885	109.971985	35000	4
9:08:19	9	8	18.717	30.358	108.583763	35000	4
9:08:27	9	8	26.711	29.730	107.218758	35000	4
9:08:35	9	8	34.687	29.053	105.321686	35000	4
9:08:43	9	8	42.687	28.589	103.765015	35000	4
9:08:51	9	8	50.655	28.025	102.212578	35000	4
9:08:59	9	8	58.625	27.459	100.341667	35000	4
9:09:07	9	9	6.629	27.049	98.393251	35000	4
9:09:15	9	9	14.629	26.511	96.570176	35000	4
9:09:23	9	9	22.570	26.126	94.400666	35000	4
9:09:31	9	9	30.552	25.774	92.447328	35000	4
9:09:39	9	9	38.564	25.329	90.420144	35000	4
9:09:46	9	9	46.499	25.055	88.072046	35000	4
9:09:54	9	9	54.495	24.662	86.202752	35000	4
9:10:02	9	10	2.487	24.367	83.408326	35000	4
9:10:10	9	10	10.433	24.164	81.487809	35000	4
9:10:18	9	10	18.413	24.055	78.962465	35000	4
9:10:26	9	10	26.384	23.875	76.324258	35000	4
9:10:34	9	10	34.400	23.818	74.040689	35000	4
9:10:42	9	10	42.334	23.684	71.631067	35000	4
9:10:50	9	10	50.321	23.647	68.925187	35000	4
9:10:58	9	10	58.288	23.663	66.217591	35000	4
9:11:06	9	11	6.250	23.710	64.192407	35000	4
9:11:14	9	11	14.230	23.749	61.760705	35000	4
9:11:22	9	11	22.189	23.904	59.097467	35000	4
9:11:30	9	11	30.194	24.130	56.891252	35000	4
9:11:38	9	11	38.136	24.283	54.123533	35000	4
9:11:46	9	11	46.089	24.582	51.596914	35000	4
9:11:54	9	11	54.092	24.837	49.744436	35000	4
9:12:02	9	12	2.068	25.217	47.337117	35000	4
9:12:10	9	12	10.011	25.546	45.4445	35000	4
9:12:18	9	12	18.002	25.886	43.479238	35000	4
9:12:26	9	12	25.960	26.376	41.275792	35000	4
9:12:34	9	12	33.952	26.834	38.934751	35000	4
9:12:42	9	12	41.935	27.256	37.399362	35000	4
9:12:50	9	12	49.929	27.804	35.779517	35000	4
9:12:58	9	12	57.932	28.313	34.003387	35000	4
9:13:06	9	13	5.897	28.848	32.6451	34600	4
9:13:14	9	13	13.911	29.456	31.313774	31900	4
9:13:22	9	13	21.863	30.001	29.298414	27000	4
9:13:30	9	13	29.878	30.487	28.516659	19500	4

r4_fixedxy.xls

hh	mm	ss	hh:mm:ss	E-W (nm)	N-S (nm)	Altitude (ft)
8	47	35.166	8:47:35	92.3627	-147.3477	23300
8	47	43.202	8:47:43	92.2335	-146.2217	23500
8	47	51.27	8:47:51	91.731	-145.4718	23800
8	47	59.262	8:47:59	90.7289	-144.8485	24000
8	48	7.339	8:48:07	90.8498	-143.5973	24300
8	48	26.687	8:48:27	89.4699	-142.2238	24900
8	48	42.783	8:48:43	87.9646	-140.8499	25400
8	48	47.49	8:48:47	87.3372	-139.9759	25700
8	48	55.536	8:48:56	87.0836	-139.0995	26000
8	49	3.61	8:49:04	87.454	-137.7227	26400
8	49	11.593	8:49:12	87.0751	-136.7221	26700
8	49	19.649	8:49:20	86.3223	-135.9727	26900
8	49	27.667	8:49:28	86.4434	-134.7218	27100
8	49	35.704	8:49:36	85.3167	-134.3481	27300
8	49	43.739	8:49:44	84.3157	-133.8502	27400
8	50	3.086	8:50:03	83.6838	-131.85	27700
8	50	7.828	8:50:08	82.6819	-131.2266	27900
8	50	27.184	8:50:27	81.6757	-129.4773	28200
8	50	31.925	8:50:32	81.6713	-128.2257	28400
8	51	2.625	8:51:03	79.4122	-125.9757	29400
8	51	4.06	8:51:04	78.6588	-125.2254	29900
8	51	12.121	8:51:12	77.7808	-124.5997	30400
8	51	20.144	8:51:20	77.2774	-123.8491	30700
8	51	28.117	8:51:28	76.7737	-122.973	31100
8	51	36.18	8:51:36	76.0202	-122.2219	31500
8	51	44.186	8:51:44	76.1405	-121.0946	31900
8	51	52.247	8:51:52	75.7616	-120.2183	32200
8	52	0.259	8:52:00	74.7594	-119.719	32500
8	52	19.684	8:52:20	73.629	-118.3433	33000
8	52	24.35	8:52:24	73.2496	-117.3424	33200
8	52	32.421	8:52:32	72.9971	-116.5919	33300
8	52	40.454	8:52:40	72.6185	-115.5917	33400
8	52	48.474	8:52:48	71.4924	-115.3428	33500
8	52	56.482	8:52:56	71.9874	-113.8415	33500
8	53	4.521	8:53:05	70.9858	-113.3429	33600
8	53	12.566	8:53:13	70.4827	-112.4679	33700
8	53	20.612	8:53:21	69.4812	-112.0936	33800
8	53	28.642	8:53:29	68.6042	-111.4698	33900
8	53	36.685	8:53:37	69.2225	-109.8414	34100
8	53	44.725	8:53:45	68.595	-109.2163	34300
8	53	52.748	8:53:53	67.0943	-108.968	34500
8	54	0.804	8:54:01	67.0896	-107.8414	34700
8	54	8.83	8:54:09	66.337	-107.3404	34900
8	54	16.886	8:54:17	65.9589	-106.3407	34900
8	54	24.865	8:54:25	65.4561	-105.5911	34900
8	54	32.96	8:54:33	65.202	-104.4656	35000
8	54	40.962	8:54:41	64.5753	-103.8417	35000
8	54	49.039	8:54:49	63.8231	-103.0926	35000

r4_fixedxy.xls

hh	mm	ss	hh:mm:ss	E-W (nm)	N-S (nm)	Altitude (ft)
8	54	57.035	8:54:57	64.0675	-101.716	35000
8	55	5.07	8:55:05	63.4402	-100.9669	35000
8	55	13.108	8:55:13	63.3115	-99.9661	35000
8	55	21.128	8:55:21	62.3105	-99.4678	35000
8	55	29.202	8:55:29	61.932	-98.4677	35000
8	55	37.188	8:55:37	61.6784	-97.4675	35000
8	55	56.52	8:55:57	61.1712	-95.4676	35000
8	56	1.274	8:56:01	60.2947	-94.9684	35000
8	56	9.287	8:56:09	61.038	-93.3412	35000
8	56	17.339	8:56:17	59.9118	-92.8428	35000
8	56	25.379	8:56:25	59.4094	-92.0933	35000
8	56	33.385	8:56:33	59.2797	-90.9672	35000
8	56	41.446	8:56:41	58.7769	-90.0924	35000
8	56	49.45	8:56:49	58.5231	-89.0927	35000
8	56	57.493	8:56:57	58.2691	-88.0919	35000
8	57	5.482	8:57:05	57.3923	-87.4678	35000
8	57	13.551	8:57:14	57.0137	-86.5924	35000
8	57	21.523	8:57:22	57.0095	-85.467	35000
8	57	29.563	8:57:30	56.6312	-84.5923	35000
8	57	37.639	8:57:38	54.8814	-84.4686	35000
8	57	56.846	8:57:57	55.1221	-82.0924	35000
8	58	1.632	8:58:02	55.117	-80.9665	35000
8	58	9.648	8:58:10	55.4855	-79.4653	35000
8	58	17.636	8:58:18	54.9827	-78.7155	35000
8	58	25.685	8:58:26	54.7281	-77.7145	35000
8	58	33.672	8:58:34	54.1011	-77.0899	35000
8	58	41.718	8:58:42	54.2204	-75.8389	35000
8	58	49.701	8:58:50	53.7174	-75.0888	35000
8	58	57.766	8:58:58	53.4631	-74.0884	35000
8	59	5.709	8:59:06	53.4576	-72.9625	35000
8	59	13.769	8:59:14	52.3323	-72.5887	35000
8	59	21.793	8:59:22	52.0776	-71.5879	35000
8	59	29.818	8:59:30	51.8232	-70.5872	35000
8	59	37.829	8:59:38	51.4445	-69.7124	35000
8	59	45.862	8:59:46	51.0658	-68.8369	35000
8	59	53.88	8:59:54	51.0595	-67.5858	35000
9	0	1.908	9:00:02	50.5563	-66.8354	35000
9	0	9.92	9:00:10	50.3018	-65.8352	35000
9	0	17.957	9:00:18	50.2961	-64.7094	35000
9	0	26.007	9:00:26	49.7911	-63.7087	35000
9	0	34.049	9:00:34	48.9139	-63.2085	35000
9	0	42.063	9:00:42	48.9075	-61.9575	35000
9	0	50.106	9:00:50	48.4044	-61.2075	35000
9	0	58.142	9:00:58	48.0243	-60.3314	35000
9	1	6.173	9:01:06	47.7689	-59.206	35000
9	1	14.167	9:01:14	47.3891	-58.3302	35000
9	1	22.228	9:01:22	47.0103	-57.4551	35000
9	1	30.201	9:01:30	46.754	-56.4539	35000

r4_fixedxy.xls

hh	mm	ss	hh:mm:ss	E-W (nm)	N-S (nm)	Altitude (ft)
9	1	38.246	9:01:38	46.001	-55.8281	35000
9	1	46.265	9:01:46	45.87	-54.703	35000
9	1	54.341	9:01:54	45.6138	-53.5771	35000
9	2	2.328	9:02:02	44.9852	-52.9512	35000
9	2	10.364	9:02:10	44.48	-52.0753	35000
9	2	18.378	9:02:18	44.4722	-50.8244	35000
9	2	26.405	9:02:26	43.9678	-50.0733	35000
9	2	34.419	9:02:34	43.463	-49.1978	35000
9	2	42.405	9:02:42	43.0825	-48.3221	35000
9	2	50.454	9:02:50	42.7016	-47.4461	35000
9	2	58.438	9:02:58	42.5693	-46.3205	35000
9	3	6.452	9:03:06	42.4374	-45.3197	35000
9	3	14.439	9:03:14	41.931	-44.4434	35000
9	3	22.475	9:03:22	41.5509	-43.6924	35000
9	3	30.493	9:03:30	41.2929	-42.5668	35000
9	3	38.486	9:03:38	40.9115	-41.691	35000
9	3	46.512	9:03:47	40.7788	-40.6904	35000
9	3	54.538	9:03:55	40.1475	-39.8144	35000
9	4	2.556	9:04:03	39.8906	-38.9389	35000
9	4	21.562	9:04:22	39.125	-37.0616	35000
9	4	26.61	9:04:27	38.743	-36.1862	35000
9	4	34.585	9:04:35	37.9871	-35.5585	35000
9	4	42.595	9:04:43	37.9765	-34.3096	35000
9	4	50.618	9:04:51	37.593	-33.4332	35000
9	4	58.636	9:04:59	37.2089	-32.4329	35000
9	5	6.653	9:05:07	36.9498	-31.5573	35000
9	5	14.639	9:05:15	36.5639	-30.4322	35000
9	5	22.672	9:05:23	36.0572	-29.806	35000
9	5	30.674	9:05:31	35.6711	-28.8053	35000
9	5	38.712	9:05:39	35.2882	-28.0548	35000
9	5	46.749	9:05:47	34.9017	-27.0548	35000
9	5	54.745	9:05:55	34.5166	-26.1796	35000
9	6	2.733	9:06:03	34.2543	-25.1802	35000
9	6	10.781	9:06:11	33.8682	-24.3052	35000
9	6	18.748	9:06:19	33.7283	-23.0585	35000
9	6	26.747	9:06:27	33.3427	-22.3088	35000
9	6	34.799	9:06:35	32.8316	-21.5583	35000
9	6	42.796	9:06:43	32.5667	-20.4367	35000
9	6	50.81	9:06:51	32.0529	-19.5622	35000
9	6	58.779	9:06:59	31.7899	-18.6899	35000
9	7	6.78	9:07:07	31.5251	-17.6939	35000
9	7	14.779	9:07:15	31.1359	-16.8217	35000
9	7	33.373	9:07:33	30.4789	-14.8323	35000
9	7	38.778	9:07:39	30.0863	-13.8379	35000
9	7	46.777	9:07:47	29.6972	-13.0923	35000
9	7	54.754	9:07:55	29.3035	-12.0996	35000
9	8	2.763	9:08:03	28.912	-11.2318	35000
9	8	10.739	9:08:11	28.5196	-10.3644	35000

r4_fixedxy.xls

hh	mm	ss	hh:mm:ss	E-W (nm)	N-S (nm)	Altitude (ft)
9	8	18.717	9:08:19	28.2537	-9.4995	35000
9	8	26.711	9:08:27	27.8608	-8.6343	35000
9	8	34.687	9:08:35	27.4656	-7.5249	35000
9	8	42.687	9:08:43	27.1999	-6.6633	35000
9	8	50.655	9:08:51	26.8075	-5.8021	35000
9	8	58.625	9:08:59	26.4134	-4.8199	35000
9	9	6.629	9:09:07	26.1471	-3.8579	35000
9	9	14.629	9:09:15	25.7093	-2.9611	35000
9	9	22.57	9:09:23	25.4096	-1.9554	35000
9	9	30.552	9:09:31	25.1009	-1.0728	35000
9	9	38.564	9:09:39	24.6664	-0.1808	35000
9	9	46.499	9:09:46	24.3718	0.8204	35000
9	9	54.495	9:09:54	23.929	1.5882	35000
9	10	2.487	9:10:02	23.5216	2.7181	35000
9	10	10.433	9:10:10	23.2107	3.4739	35000
9	10	18.413	9:10:18	22.9249	4.4718	35000
9	10	26.384	9:10:26	22.5146	5.4784	35000
9	10	34.4	9:10:34	22.222	6.355	35000
9	10	42.334	9:10:42	21.8041	7.2401	35000
9	10	50.321	9:10:50	21.4024	8.2477	35000
9	10	58.288	9:10:58	21.0039	9.2562	35000
9	11	6.25	9:11:06	20.7073	10.0137	35000
9	11	14.23	9:11:14	20.2992	10.9023	35000
9	11	22.189	9:11:22	19.9078	11.9158	35000
9	11	30.194	9:11:30	19.6293	12.8005	35000
9	11	38.136	9:11:38	19.1159	13.8257	35000
9	11	46.089	9:11:46	18.729	14.8461	35000
9	11	54.092	9:11:54	18.4394	15.6132	35000
9	12	2.068	9:12:02	18.0544	16.6385	35000
9	12	10.011	9:12:10	17.7358	17.4627	35000
9	12	18.002	9:12:18	17.3665	18.3138	35000
9	12	25.96	9:12:26	16.9809	19.3455	35000
9	12	33.952	9:12:34	16.4713	20.3878	35000
9	12	41.935	9:12:42	16.1814	21.165	35000
9	12	49.929	9:12:50	15.9043	22.0685	35000
9	12	57.932	9:12:58	15.5035	22.982	35000
9	13	5.897	9:13:06	15.2562	23.8141	34600
9	13	13.911	9:13:14	15.0646	24.7635	31900
9	13	21.863	9:13:22	14.5198	25.8757	27000
9	13	29.878	9:13:30	14.4744	26.6401	19500

Attachments V – Data Files: Final Positions & Final Times

NTSB Fixed Time -48.7sec			Range (nm)		Fixed Azimuth (deg)	Altitude	
hh:mm:ss	hh	mm	ss	-0.338 nm	+0.397 deg	(ft)	time-48.7sec,Altitude
8:46:46	8	46	46.466	173.607	148.316189	23300	8:46:46.466,23300
8:46:55	8	46	54.502	172.586	148.154263	23500	8:46:54.502,23500
8:47:03	8	47	2.570	171.685	148.162579	23800	8:47:02.570,23800
8:47:11	8	47	10.562	170.625	148.335278	24000	8:47:10.562,24000
8:47:19	8	47	18.639	169.632	148.076764	24300	8:47:18.639,24300
8:47:38	8	47	37.987	167.737	148.224011	24900	8:47:37.987,24900
8:47:54	8	47	54.083	165.776	148.411206	25400	8:47:54.083,25400
8:47:59	8	47	58.790	164.704	148.435254	25700	8:47:58.790,25700
8:48:07	8	48	6.836	163.828	148.348385	26000	8:48:06.836,26000
8:48:15	8	48	14.910	162.863	147.981549	26400	8:48:14.910,26400
8:48:23	8	48	22.893	161.817	147.905011	26700	8:48:22.893,26700
8:48:31	8	48	30.949	160.782	147.987668	26900	8:48:30.949,26900
8:48:39	8	48	38.967	159.794	147.711117	27100	8:48:38.967,27100
8:48:47	8	48	47.004	158.874	147.97984	27300	8:48:47.004,27300
8:48:55	8	48	55.039	157.919	148.189236	27400	8:48:55.039,27400
8:49:14	8	49	14.386	155.893	147.99426	27700	8:49:14.386,27700
8:49:19	8	49	19.128	154.832	148.183316	27900	8:49:19.128,27900
8:49:38	8	49	38.484	152.818	148.15292	28200	8:49:38.484,28200
8:49:43	8	49	43.225	151.76	147.902676	28400	8:49:43.225,28400
8:50:14	8	50	13.925	148.657	148.170727	29400	8:50:13.925,29400
8:50:15	8	50	15.360	147.624	148.262631	29900	8:50:15.360,29900
8:50:23	8	50	23.421	146.631	148.422833	30400	8:50:23.421,30400
8:50:31	8	50	31.444	145.73	148.434415	30700	8:50:31.444,30700
8:50:39	8	50	39.417	144.723	148.420026	31100	8:50:39.417,31100
8:50:47	8	50	47.480	143.69	148.516125	31500	8:50:47.480,31500
8:50:55	8	50	55.486	142.801	148.236706	31900	8:50:55.486,31900
8:51:04	8	51	3.547	141.86	148.17796	32200	8:51:03.547,32200
8:51:12	8	51	11.559	140.907	148.41409	32500	8:51:11.559,32500
8:51:31	8	51	30.984	139.146	148.50871	33000	8:51:30.984,33000
8:51:36	8	51	35.650	138.098	148.423123	33200	8:51:35.650,33200
8:51:44	8	51	43.721	137.329	148.346829	33300	8:51:43.721,33300
8:51:52	8	51	51.754	136.282	148.25874	33400	8:51:51.754,33400
8:52:00	8	51	59.774	135.476	148.605435	33500	8:51:59.774,33500
8:52:08	8	52	7.782	134.467	148.090008	33500	8:52:07.782,33500
8:52:16	8	52	15.821	133.513	148.338528	33600	8:52:15.821,33600
8:52:24	8	52	23.866	132.506	148.322064	33700	8:52:23.866,33700
8:52:32	8	52	31.912	131.66	148.604413	33800	8:52:31.912,33800
8:52:40	8	52	39.942	130.67	148.786862	33900	8:52:39.942,33900
8:52:48	8	52	47.985	129.617	148.177792	34100	8:52:47.985,34100
8:52:56	8	52	56.025	128.756	148.265591	34300	8:52:56.025,34300
8:53:04	8	53	4.048	127.755	148.775479	34500	8:53:04.048,34500
8:53:12	8	53	12.104	126.797	148.510785	34700	8:53:12.104,34700
8:53:20	8	53	20.130	125.977	148.680798	34900	8:53:20.130,34900
8:53:28	8	53	28.186	124.929	148.587445	34900	8:53:28.186,34900
8:53:36	8	53	36.165	124.028	148.602261	34900	8:53:36.165,34900
8:53:44	8	53	44.260	122.94	148.426846	35000	8:53:44.260,35000
8:53:52	8	53	52.262	122.08	148.521176	35000	8:53:52.262,35000

NTSB Fixed Time -48.7sec			Range (nm)		Fixed Azimuth (deg)		Altitude	
hh:mm:ss	hh	mm	ss	-0.338 nm	+0.397 deg	(ft)	time-48.7sec,Altitude	
8:54:00	8	54	0.339	121.048	148.63609	35000	8:54:00.339,35000	
8:54:08	8	54	8.335	120.011	148.191678	35000	8:54:08.335,35000	
8:54:16	8	54	16.370	119.044	148.254849	35000	8:54:16.370,35000	
8:54:24	8	54	24.408	118.13	148.049832	35000	8:54:24.408,35000	
8:54:32	8	54	32.428	117.176	148.332471	35000	8:54:32.428,35000	
8:54:41	8	54	40.502	116.129	148.22897	35000	8:54:40.502,35000	
8:54:48	8	54	48.488	115.149	148.071072	35000	8:54:48.488,35000	
8:55:08	8	55	7.820	113.192	147.74725	35000	8:55:07.820,35000	
8:55:13	8	55	12.574	112.301	147.985974	35000	8:55:12.574,35000	
8:55:21	8	55	20.587	111.337	147.215481	35000	8:55:20.587,35000	
8:55:29	8	55	28.639	110.307	147.562817	35000	8:55:28.639,35000	
8:55:37	8	55	36.679	109.406	147.571011	35000	8:55:36.679,35000	
8:55:45	8	55	44.685	108.392	147.306439	35000	8:55:44.685,35000	
8:55:53	8	55	52.746	107.386	147.276379	35000	8:55:52.746,35000	
8:56:01	8	56	0.750	106.412	147.097073	35000	8:56:00.750,35000	
8:56:09	8	56	8.793	105.438	146.914151	35000	8:56:08.793,35000	
8:56:17	8	56	16.782	104.436	147.126111	35000	8:56:16.782,35000	
8:56:25	8	56	24.851	103.498	147.035611	35000	8:56:24.851,35000	
8:56:33	8	56	32.823	102.559	146.692441	35000	8:56:32.823,35000	
8:56:41	8	56	40.863	101.623	146.596371	35000	8:56:40.863,35000	
8:56:49	8	56	48.939	100.558	147.38432	35000	8:56:48.939,35000	
8:57:08	8	57	8.146	98.711	146.517178	35000	8:57:08.146,35000	
8:57:13	8	57	12.932	97.777	146.152508	35000	8:57:12.932,35000	
8:57:21	8	57	20.948	96.752	145.472989	35000	8:57:20.948,35000	
8:57:29	8	57	28.936	95.851	145.462826	35000	8:57:28.936,35000	
8:57:37	8	57	36.985	94.887	145.243146	35000	8:57:36.985,35000	
8:57:45	8	57	44.972	94.017	145.336224	35000	8:57:44.972,35000	
8:57:53	8	57	53.018	93.067	144.834546	35000	8:57:53.018,35000	
8:58:01	8	58	1.001	92.166	144.817761	35000	8:58:01.001,35000	
8:58:09	8	58	9.066	91.207	144.58241	35000	8:58:09.066,35000	
8:58:17	8	58	17.009	90.295	144.16792	35000	8:58:17.009,35000	
8:58:25	8	58	25.069	89.333	144.607663	35000	8:58:25.069,35000	
8:58:33	8	58	33.093	88.375	144.362561	35000	8:58:33.093,35000	
8:58:41	8	58	41.118	87.419	144.112027	35000	8:58:41.118,35000	
8:58:49	8	58	49.129	86.492	143.971493	35000	8:58:49.129,35000	
8:58:57	8	58	57.162	85.565	143.827664	35000	8:58:57.162,35000	
8:59:05	8	59	5.180	84.562	143.326947	35000	8:59:05.180,35000	
8:59:13	8	59	13.208	83.662	143.292172	35000	8:59:13.208,35000	
8:59:21	8	59	21.220	82.714	143.01524	35000	8:59:21.220,35000	
8:59:29	8	59	29.257	81.821	142.540539	35000	8:59:29.257,35000	
8:59:37	8	59	37.307	80.724	142.387967	35000	8:59:37.307,35000	
8:59:45	8	59	45.349	79.793	142.66261	35000	8:59:45.349,35000	
8:59:53	8	59	53.363	78.806	142.110547	35000	8:59:53.363,35000	
9:00:01	9	0	1.406	77.908	142.059323	35000	9:00:01.406,35000	
9:00:09	9	0	9.442	76.988	141.877026	35000	9:00:09.442,35000	
9:00:17	9	0	17.473	75.953	141.499631	35000	9:00:17.473,35000	
9:00:25	9	0	25.467	75.036	141.305752	35000	9:00:25.467,35000	

NTSB Fixed Time -48.7sec			Range (nm)		Fixed Azimuth (deg)	Altitude	
hh:mm:ss	hh	mm	ss	-0.338 nm	+0.397 deg	(ft)	time-48.7sec,Altitude
9:00:34	9	0	33.528	74.121	141.106763	35000	9:00:33.528,35000
9:00:42	9	0	41.501	73.188	140.766202	35000	9:00:41.501,35000
9:00:50	9	0	49.546	72.229	140.909421	35000	9:00:49.546,35000
9:00:58	9	0	57.565	71.283	140.416363	35000	9:00:57.565,35000
9:01:06	9	1	5.641	70.261	139.987134	35000	9:01:05.641,35000
9:01:14	9	1	13.628	69.38	140.047223	35000	9:01:13.628,35000
9:01:22	9	1	21.664	68.389	139.894894	35000	9:01:21.664,35000
9:01:30	9	1	29.678	67.441	139.210644	35000	9:01:29.678,35000
9:01:38	9	1	37.705	66.547	139.111752	35000	9:01:37.705,35000
9:01:46	9	1	45.719	65.56	138.938656	35000	9:01:45.719,35000
9:01:54	9	1	53.705	64.656	138.677884	35000	9:01:53.705,35000
9:02:02	9	2	1.754	63.753	138.409772	35000	9:02:01.754,35000
9:02:10	9	2	9.738	62.835	137.813611	35000	9:02:09.738,35000
9:02:18	9	2	17.752	62.015	137.278256	35000	9:02:17.752,35000
9:02:26	9	2	25.739	61.034	137.063229	35000	9:02:25.739,35000
9:02:34	9	2	33.775	60.231	136.836194	35000	9:02:33.775,35000
9:02:42	9	2	41.793	59.245	136.267377	35000	9:02:41.793,35000
9:02:50	9	2	49.786	58.356	135.937741	35000	9:02:49.786,35000
9:02:58	9	2	57.812	57.556	135.334973	35000	9:02:57.812,35000
9:03:06	9	3	5.838	56.496	135.158383	35000	9:03:05.838,35000
9:03:14	9	3	13.856	55.703	134.705395	35000	9:03:13.856,35000
9:03:33	9	3	32.862	53.86	133.84573	35000	9:03:32.862,35000
9:03:38	9	3	37.910	52.987	133.442761	35000	9:03:37.910,35000
9:03:46	9	3	45.885	52.012	133.50581	35000	9:03:45.885,35000
9:03:54	9	3	53.895	51.164	132.493115	35000	9:03:53.895,35000
9:04:02	9	4	1.918	50.299	132.045331	35000	9:04:01.918,35000
9:04:10	9	4	9.936	49.356	131.473935	35000	9:04:09.936,35000
9:04:18	9	4	17.953	48.593	130.89639	35000	9:04:17.953,35000
9:04:26	9	4	25.939	47.58	130.167706	35000	9:04:25.939,35000
9:04:34	9	4	33.972	46.796	129.975232	35000	9:04:33.972,35000
9:04:42	9	4	41.974	45.871	129.318814	35000	9:04:41.974,35000
9:04:50	9	4	50.012	45.109	128.882474	35000	9:04:50.012,35000
9:04:58	9	4	58.049	44.195	128.178868	35000	9:04:58.049,35000
9:05:06	9	5	6.045	43.364	127.576077	35000	9:05:06.045,35000
9:05:14	9	5	14.033	42.563	126.716611	35000	9:05:14.033,35000
9:05:22	9	5	22.081	41.744	126.061871	35000	9:05:22.081,35000
9:05:30	9	5	30.048	40.922	124.755788	35000	9:05:30.048,35000
9:05:38	9	5	38.047	40.19	124.182637	35000	9:05:38.047,35000
9:05:46	9	5	46.099	39.358	123.687329	35000	9:05:46.099,35000
9:05:54	9	5	54.096	38.538	122.50681	35000	9:05:54.096,35000
9:06:02	9	6	2.110	37.651	121.793164	35000	9:06:02.110,35000
9:06:10	9	6	10.079	36.985	120.849248	35000	9:06:10.079,35000
9:06:18	9	6	18.080	36.268	119.701024	35000	9:06:18.080,35000
9:06:26	9	6	26.079	35.516	118.778004	35000	9:06:26.079,35000
9:06:45	9	6	44.673	34.043	116.346593	35000	9:06:44.673,35000
9:06:50	9	6	50.078	33.274	115.096776	35000	9:06:50.078,35000
9:06:58	9	6	58.077	32.623	114.187787	35000	9:06:58.077,35000

NTSB Fixed Time -48.7sec			Range (nm)		Fixed Azimuth (deg)		Altitude	
hh:mm:ss	hh	mm	ss	-0.338 nm	+0.397 deg	(ft)	time-48.7sec,Altitude	
9:07:06	9	7	6.054	31.883	112.833165	35000	9:07:06.054,35000	
9:07:14	9	7	14.063	31.208	111.627301	35000	9:07:14.063,35000	
9:07:22	9	7	22.039	30.547	110.368985	35000	9:07:22.039,35000	
9:07:30	9	7	30.017	30.02	108.980763	35000	9:07:30.017,35000	
9:07:38	9	7	38.011	29.392	107.615758	35000	9:07:38.011,35000	
9:07:46	9	7	45.987	28.715	105.718686	35000	9:07:45.987,35000	
9:07:54	9	7	53.987	28.251	104.162015	35000	9:07:53.987,35000	
9:08:02	9	8	1.955	27.687	102.609578	35000	9:08:01.955,35000	
9:08:10	9	8	9.925	27.121	100.738667	35000	9:08:09.925,35000	
9:08:18	9	8	17.929	26.711	98.790251	35000	9:08:17.929,35000	
9:08:26	9	8	25.929	26.173	96.967176	35000	9:08:25.929,35000	
9:08:34	9	8	33.870	25.788	94.797666	35000	9:08:33.870,35000	
9:08:42	9	8	41.852	25.436	92.844328	35000	9:08:41.852,35000	
9:08:50	9	8	49.864	24.991	90.817144	35000	9:08:49.864,35000	
9:08:58	9	8	57.799	24.717	88.469046	35000	9:08:57.799,35000	
9:09:06	9	9	5.795	24.324	86.599752	35000	9:09:05.795,35000	
9:09:14	9	9	13.787	24.029	83.805326	35000	9:09:13.787,35000	
9:09:22	9	9	21.733	23.826	81.884809	35000	9:09:21.733,35000	
9:09:30	9	9	29.713	23.717	79.359465	35000	9:09:29.713,35000	
9:09:38	9	9	37.684	23.537	76.721258	35000	9:09:37.684,35000	
9:09:46	9	9	45.700	23.48	74.437689	35000	9:09:45.700,35000	
9:09:54	9	9	53.634	23.346	72.028067	35000	9:09:53.634,35000	
9:10:02	9	10	1.621	23.309	69.322187	35000	9:10:01.621,35000	
9:10:10	9	10	9.588	23.325	66.614591	35000	9:10:09.588,35000	
9:10:18	9	10	17.550	23.372	64.589407	35000	9:10:17.550,35000	
9:10:26	9	10	25.530	23.411	62.157705	35000	9:10:25.530,35000	
9:10:33	9	10	33.489	23.566	59.494467	35000	9:10:33.489,35000	
9:10:41	9	10	41.494	23.792	57.288252	35000	9:10:41.494,35000	
9:10:49	9	10	49.436	23.945	54.520533	35000	9:10:49.436,35000	
9:10:57	9	10	57.389	24.244	51.993914	35000	9:10:57.389,35000	
9:11:05	9	11	5.392	24.499	50.141436	35000	9:11:05.392,35000	
9:11:13	9	11	13.368	24.879	47.734117	35000	9:11:13.368,35000	
9:11:21	9	11	21.311	25.208	45.8415	35000	9:11:21.311,35000	
9:11:29	9	11	29.302	25.548	43.876238	35000	9:11:29.302,35000	
9:11:37	9	11	37.260	26.038	41.672792	35000	9:11:37.260,35000	
9:11:45	9	11	45.252	26.496	39.331751	35000	9:11:45.252,35000	
9:11:53	9	11	53.235	26.918	37.796362	35000	9:11:53.235,35000	
9:12:01	9	12	1.229	27.466	36.176517	35000	9:12:01.229,35000	
9:12:09	9	12	9.232	27.975	34.400387	35000	9:12:09.232,35000	
9:12:17	9	12	17.197	28.51	33.0421	34600	9:12:17.197,34600	
9:12:25	9	12	25.211	29.118	31.710774	31900	9:12:25.211,31900	
9:12:33	9	12	33.163	29.663	29.695414	27000	9:12:33.163,27000	
9:12:41	9	12	41.178	30.149	28.913659	19500	9:12:41.178,19500	

NTSB Fixed Time -48.7sec				Final Position	Final Position	Altitude	time-48.7sec,Altitude
	hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	
8:46:46	8	46	46.466	91.1619	-147.6965	23300	8:46:46.466,23300
8:46:55	8	46	54.502	91.0397	-146.5701	23500	8:46:54.502,23500
8:47:03	8	47	2.57	90.5425	-145.8167	23800	8:47:02.570,23800
8:47:11	8	47	10.562	89.5456	-145.1859	24000	8:47:10.562,24000
8:47:19	8	47	18.639	89.6739	-143.9364	24300	8:47:18.639,24300
8:47:38	8	47	37.987	88.3042	-142.5529	24900	8:47:37.987,24900
8:47:54	8	47	54.083	86.8094	-141.168	25400	8:47:54.083,25400
8:47:59	8	47	58.79	86.1882	-140.2896	25700	8:47:58.790,25700
8:48:07	8	48	6.836	85.9403	-139.4118	26000	8:48:06.836,26000
8:48:15	8	48	14.91	86.3184	-138.0387	26400	8:48:14.910,26400
8:48:23	8	48	22.893	85.946	-137.0357	26700	8:48:22.893,26700
8:48:31	8	48	30.949	85.1989	-136.2808	26900	8:48:30.949,26900
8:48:39	8	48	38.967	85.3272	-135.0317	27100	8:48:38.967,27100
8:48:47	8	48	47.004	84.2045	-134.6493	27300	8:48:47.004,27300
8:48:55	8	48	55.039	83.208	-134.1439	27400	8:48:55.039,27400
8:49:14	8	49	14.386	82.589	-132.14	27700	8:49:14.386,27700
8:49:19	8	49	19.128	81.5924	-131.509	27900	8:49:19.128,27900
8:49:38	8	49	38.484	80.5982	-129.7528	28200	8:49:38.484,28200
8:49:43	8	49	43.225	80.6012	-128.502	28400	8:49:43.225,28400
8:50:14	8	50	13.925	78.359	-126.2356	29400	8:50:13.925,29400
8:50:15	8	50	15.36	77.6113	-125.4798	29900	8:50:15.360,29900
8:50:23	8	50	23.421	76.7385	-124.8475	30400	8:50:23.421,30400
8:50:31	8	50	31.444	76.2404	-124.0934	30700	8:50:31.444,30700
8:50:39	8	50	39.417	75.7427	-123.2139	31100	8:50:39.417,31100
8:50:47	8	50	47.48	74.9949	-122.4573	31500	8:50:47.480,31500
8:50:55	8	50	55.486	75.1216	-121.3317	31900	8:50:55.486,31900
8:51:04	8	51	3.547	74.7485	-120.453	32200	8:51:03.547,32200
8:51:12	8	51	11.559	73.7509	-119.946	32500	8:51:11.559,32500
8:51:31	8	51	30.984	72.6305	-118.5622	33000	8:51:30.984,33000
8:51:36	8	51	35.65	72.2577	-117.559	33200	8:51:35.650,33200
8:51:44	8	51	43.721	72.0099	-116.807	33300	8:51:43.721,33300
8:51:52	8	51	51.754	71.6378	-115.8044	33400	8:51:51.754,33400
8:52:00	8	51	59.774	70.5152	-115.5467	33500	8:51:59.774,33500
8:52:08	8	52	7.782	71.018	-114.0504	33500	8:52:07.782,33500
8:52:16	8	52	15.821	70.0211	-113.5441	33600	8:52:15.821,33600
8:52:24	8	52	23.866	69.5241	-112.6657	33700	8:52:23.866,33700
8:52:32	8	52	31.912	68.5266	-112.2836	33800	8:52:31.912,33800
8:52:40	8	52	39.942	67.6548	-111.6532	33900	8:52:39.942,33900
8:52:48	8	52	47.985	68.2814	-110.0309	34100	8:52:47.985,34100
8:52:56	8	52	56.025	67.6587	-109.4012	34300	8:52:56.025,34300
8:53:04	8	53	4.048	66.1622	-109.1409	34500	8:53:04.048,34500
8:53:12	8	53	12.104	66.1641	-108.0151	34700	8:53:12.104,34700
8:53:20	8	53	20.13	65.4158	-107.5085	34900	8:53:20.130,34900
8:53:28	8	53	28.186	65.0441	-106.5064	34900	8:53:28.186,34900
8:53:36	8	53	36.165	64.5467	-105.7533	34900	8:53:36.165,34900
8:53:44	8	53	44.26	64.2994	-104.6266	35000	8:53:44.260,35000
8:53:52	8	53	52.262	63.6775	-103.9981	35000	8:53:52.262,35000

NTSB Fixed Time -48.7sec				Final Position		Final Position	Altitude	
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	(ft)	time-48.7sec,Altitude	
8:54:00	8	54	0.339	62.9311	-103.2434	35000	8:54:00.339,35000	
8:54:08	8	54	8.335	63.1828	-101.8699	35000	8:54:08.335,35000	
8:54:16	8	54	16.37	62.5611	-101.1162	35000	8:54:16.370,35000	
8:54:24	8	54	24.408	62.4382	-100.1153	35000	8:54:24.408,35000	
8:54:32	8	54	32.428	61.4422	-99.6091	35000	8:54:32.428,35000	
8:54:41	8	54	40.502	61.07	-98.6068	35000	8:54:40.502,35000	
8:54:48	8	54	48.488	60.8226	-97.6054	35000	8:54:48.488,35000	
8:55:08	8	55	7.82	60.3276	-95.6029	35000	8:55:07.820,35000	
8:55:13	8	55	12.574	59.4558	-95.0969	35000	8:55:12.574,35000	
8:55:21	8	55	20.587	60.2065	-93.4773	35000	8:55:20.587,35000	
8:55:29	8	55	28.639	59.0855	-92.9701	35000	8:55:28.639,35000	
8:55:37	8	55	36.679	58.5884	-92.217	35000	8:55:36.679,35000	
8:55:45	8	55	44.685	58.4651	-91.0909	35000	8:55:44.685,35000	
8:55:53	8	55	52.746	57.9683	-90.2127	35000	8:55:52.746,35000	
8:56:01	8	56	0.75	57.7205	-89.2119	35000	8:56:00.750,35000	
8:56:09	8	56	8.793	57.4725	-88.2099	35000	8:56:08.793,35000	
8:56:17	8	56	16.782	56.6011	-87.5791	35000	8:56:16.782,35000	
8:56:25	8	56	24.851	56.2282	-86.7014	35000	8:56:24.851,35000	
8:56:33	8	56	32.823	56.23	-85.5771	35000	8:56:32.823,35000	
8:56:41	8	56	40.863	55.8573	-84.7001	35000	8:56:40.863,35000	
8:56:49	8	56	48.939	54.1123	-84.5617	35000	8:56:48.939,35000	
8:57:08	8	57	8.146	54.3652	-82.19	35000	8:57:08.146,35000	
8:57:13	8	57	12.932	54.3661	-81.0653	35000	8:57:12.932,35000	
8:57:21	8	57	20.948	54.7416	-79.5689	35000	8:57:20.948,35000	
8:57:29	8	57	28.936	54.244	-78.8156	35000	8:57:28.936,35000	
8:57:37	8	57	36.985	53.9952	-77.8136	35000	8:57:36.985,35000	
8:57:45	8	57	44.972	53.373	-77.1843	35000	8:57:44.972,35000	
8:57:53	8	57	53.018	53.4986	-75.936	35000	8:57:53.018,35000	
8:58:01	8	58	1.001	53.0007	-75.1825	35000	8:58:01.001,35000	
8:58:09	8	58	9.066	52.7522	-74.181	35000	8:58:09.066,35000	
8:58:17	8	58	17.009	52.7525	-73.0566	35000	8:58:17.009,35000	
8:58:25	8	58	25.069	51.6319	-72.6735	35000	8:58:25.069,35000	
8:58:33	8	58	33.093	51.383	-71.6717	35000	8:58:33.093,35000	
8:58:41	8	58	41.118	51.1343	-70.6702	35000	8:58:41.118,35000	
8:58:49	8	58	49.129	50.761	-69.7932	35000	8:58:49.129,35000	
8:58:57	8	58	57.162	50.3877	-68.9156	35000	8:58:57.162,35000	
8:59:05	8	59	5.18	50.3876	-67.6663	35000	8:59:05.180,35000	
8:59:13	8	59	13.208	49.8894	-66.9125	35000	8:59:13.208,35000	
8:59:21	8	59	21.22	49.6406	-65.9115	35000	8:59:21.220,35000	
8:59:29	8	59	29.257	49.6405	-64.7874	35000	8:59:29.257,35000	
8:59:37	8	59	37.307	49.1416	-63.7838	35000	8:59:37.307,35000	
8:59:45	8	59	45.349	48.2692	-63.2765	35000	8:59:45.349,35000	
8:59:53	8	59	53.363	48.2689	-62.0274	35000	8:59:53.363,35000	
9:00:01	9	0	1.406	47.7707	-61.2741	35000	9:00:01.406,35000	
9:00:09	9	0	9.442	47.3959	-60.3961	35000	9:00:09.442,35000	
9:00:17	9	0	17.473	47.1465	-59.2703	35000	9:00:17.473,35000	
9:00:25	9	0	25.467	46.7719	-58.3926	35000	9:00:25.467,35000	

NTSB Fixed Time -48.7sec			Final Position		Final Position	Altitude	
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	(ft)	time-48.7sec,Altitude
9:00:34	9	0	33.528	46.3982	-57.5155	35000	9:00:33.528,35000
9:00:42	9	0	41.501	46.1473	-56.5139	35000	9:00:41.501,35000
9:00:50	9	0	49.546	45.3993	-55.8824	35000	9:00:49.546,35000
9:00:58	9	0	57.565	45.2737	-54.7582	35000	9:00:57.565,35000
9:01:06	9	1	5.641	45.0234	-53.6321	35000	9:01:05.641,35000
9:01:14	9	1	13.628	44.3995	-53.0017	35000	9:01:13.628,35000
9:01:22	9	1	21.664	43.8996	-52.1228	35000	9:01:21.664,35000
9:01:30	9	1	29.678	43.8974	-50.8745	35000	9:01:29.678,35000
9:01:38	9	1	37.705	43.3977	-50.1203	35000	9:01:37.705,35000
9:01:46	9	1	45.719	42.8981	-49.2419	35000	9:01:45.719,35000
9:01:54	9	1	53.705	42.5226	-48.3646	35000	9:01:53.705,35000
9:02:02	9	2	1.754	42.1466	-47.487	35000	9:02:01.754,35000
9:02:10	9	2	9.738	42.0194	-46.3629	35000	9:02:09.738,35000
9:02:18	9	2	17.752	41.892	-45.3632	35000	9:02:17.752,35000
9:02:26	9	2	25.739	41.3908	-44.4843	35000	9:02:25.739,35000
9:02:34	9	2	33.775	41.0149	-43.7316	35000	9:02:33.775,35000
9:02:42	9	2	41.793	40.7622	-42.6065	35000	9:02:41.793,35000
9:02:50	9	2	49.786	40.3855	-41.7294	35000	9:02:49.786,35000
9:02:58	9	2	57.812	40.2571	-40.7304	35000	9:02:57.812,35000
9:03:06	9	3	5.838	39.6311	-39.8507	35000	9:03:05.838,35000
9:03:14	9	3	13.856	39.3783	-38.9753	35000	9:03:13.856,35000
9:03:33	9	3	32.862	38.6221	-37.0963	35000	9:03:32.862,35000
9:03:38	9	3	37.91	38.2445	-36.22	35000	9:03:37.910,35000
9:03:46	9	3	45.885	37.4931	-35.5868	35000	9:03:45.885,35000
9:03:54	9	3	53.895	37.487	-34.3421	35000	9:03:53.895,35000
9:04:02	9	4	1.918	37.1077	-33.465	35000	9:04:01.918,35000
9:04:10	9	4	9.936	36.7283	-32.4646	35000	9:04:09.936,35000
9:04:18	9	4	17.953	36.4729	-31.5897	35000	9:04:17.953,35000
9:04:26	9	4	25.939	36.092	-30.4652	35000	9:04:25.939,35000
9:04:34	9	4	33.972	35.5889	-29.8363	35000	9:04:33.972,35000
9:04:42	9	4	41.974	35.2071	-28.8359	35000	9:04:41.974,35000
9:04:50	9	4	50.012	34.8278	-28.0848	35000	9:04:50.012,35000
9:04:58	9	4	58.049	34.4455	-27.0853	35000	9:04:58.049,35000
9:05:06	9	5	6.045	34.0642	-26.2102	35000	9:05:06.045,35000
9:05:14	9	5	14.033	33.8056	-25.213	35000	9:05:14.033,35000
9:05:22	9	5	22.081	33.4231	-24.3384	35000	9:05:22.081,35000
9:05:30	9	5	30.048	33.2872	-23.0971	35000	9:05:30.048,35000
9:05:38	9	5	38.047	32.9049	-22.3475	35000	9:05:38.047,35000
9:05:46	9	5	46.099	32.3972	-21.5958	35000	9:05:46.099,35000
9:05:54	9	5	54.096	32.136	-20.4782	35000	9:05:54.096,35000
9:06:02	9	6	2.11	31.6259	-19.6036	35000	9:06:02.110,35000
9:06:10	9	6	10.079	31.3659	-18.7343	35000	9:06:10.079,35000
9:06:18	9	6	18.08	31.1044	-17.7423	35000	9:06:18.080,35000
9:06:26	9	6	26.079	30.7184	-16.8722	35000	9:06:26.079,35000
9:06:45	9	6	44.673	30.0681	-14.891	35000	9:06:44.673,35000
9:06:50	9	6	50.078	29.6789	-13.9005	35000	9:06:50.078,35000
9:06:58	9	6	58.077	29.2926	-13.1571	35000	9:06:58.077,35000

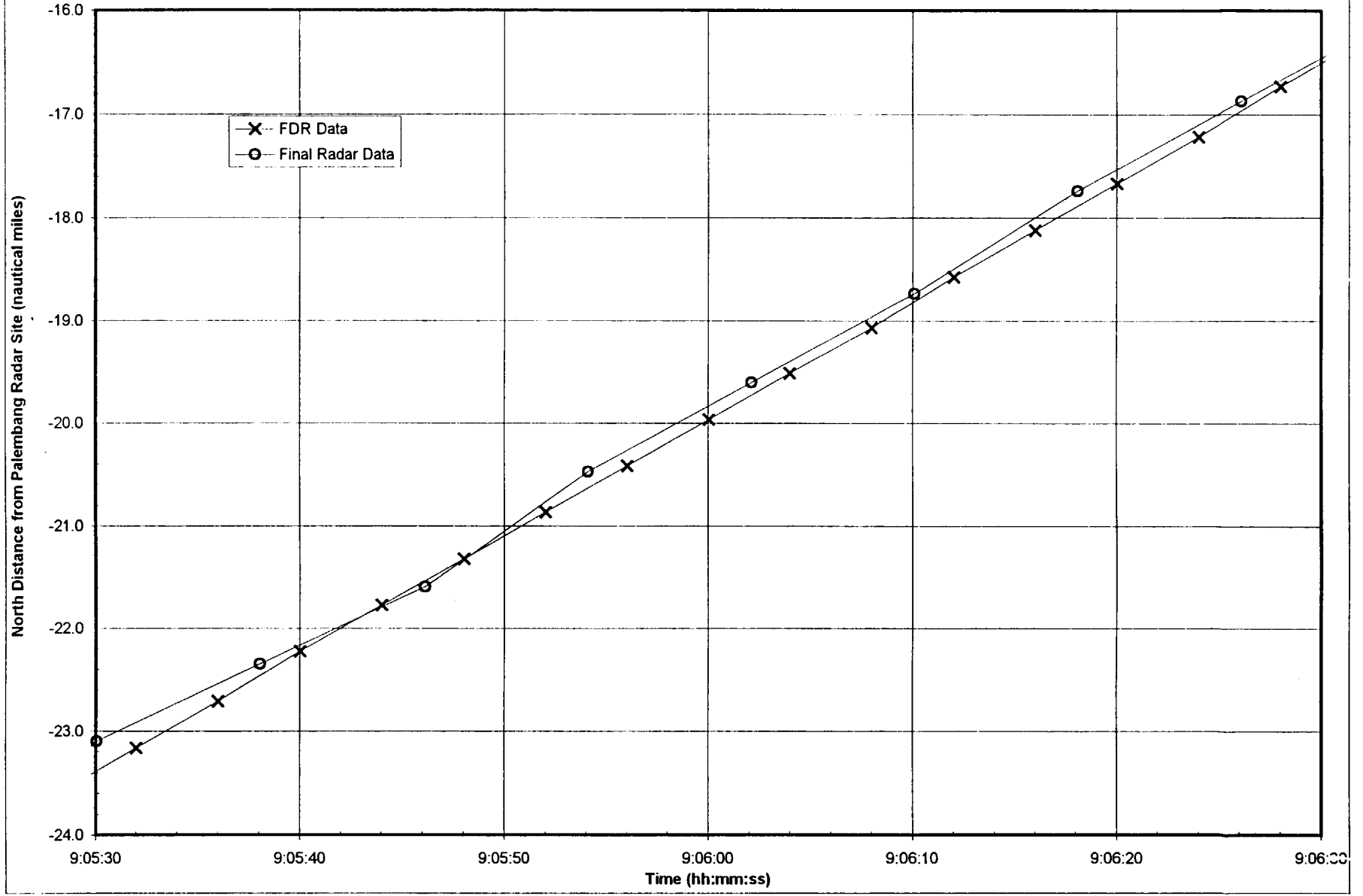
r4finalxy.xls

NTSB Fixed Time -48.7sec			Final Position		Final Position	Altitude	
hh:mm:ss	hh	mm	ss	E-W (nm)	N-S (nm)	(ft)	time-48.7sec,Altitude
9:07:06	9	7	6.054	28.9023	-12.1691	35000	9:07:06.054,35000
9:07:14	9	7	14.063	28.5138	-11.3051	35000	9:07:14.063,35000
9:07:22	9	7	22.039	28.1245	-10.442	35000	9:07:22.039,35000
9:07:30	9	7	30.017	27.8616	-9.583	35000	9:07:30.017,35000
9:07:38	9	7	38.011	27.4719	-8.7229	35000	9:07:38.011,35000
9:07:46	9	7	45.987	27.0808	-7.6216	35000	9:07:45.987,35000
9:07:54	9	7	53.987	26.8184	-6.7672	35000	9:07:53.987,35000
9:08:02	9	8	1.955	26.4295	-5.9123	35000	9:08:01.955,35000
9:08:10	9	8	9.925	26.0397	-4.9384	35000	9:08:09.925,35000
9:08:18	9	8	17.929	25.7778	-3.9861	35000	9:08:17.929,35000
9:08:26	9	8	25.929	25.3444	-3.0971	35000	9:08:25.929,35000
9:08:34	9	8	33.87	25.0501	-2.1025	35000	9:08:33.870,35000
9:08:42	9	8	41.852	24.7464	-1.2295	35000	9:08:41.852,35000
9:08:50	9	8	49.864	24.3174	-0.3468	35000	9:08:49.864,35000
9:08:58	9	8	57.799	24.0296	0.6423	35000	9:08:57.799,35000
9:09:06	9	9	5.795	23.5923	1.4018	35000	9:09:05.795,35000
9:09:14	9	9	13.787	23.194	2.5175	35000	9:09:13.787,35000
9:09:22	9	9	21.733	22.8895	3.2639	35000	9:09:21.733,35000
9:09:30	9	9	29.713	22.6131	4.2485	35000	9:09:29.713,35000
9:09:38	9	9	37.684	22.2129	5.2422	35000	9:09:37.684,35000
9:09:46	9	9	45.7	21.9298	6.1074	35000	9:09:45.700,35000
9:09:54	9	9	53.634	21.5221	6.9813	35000	9:09:53.634,35000
9:10:02	9	10	1.621	21.1328	7.9761	35000	9:10:01.621,35000
9:10:10	9	10	9.588	20.7476	8.972	35000	9:10:09.588,35000
9:10:18	9	10	17.55	20.4614	9.7204	35000	9:10:17.550,35000
9:10:26	9	10	25.53	20.0661	10.5986	35000	9:10:25.530,35000
9:10:33	9	10	33.489	19.6897	11.6007	35000	9:10:33.489,35000
9:10:41	9	10	41.494	19.4246	12.476	35000	9:10:41.494,35000
9:10:49	9	10	49.436	18.9278	13.4909	35000	9:10:49.436,35000
9:10:57	9	10	57.389	18.5573	14.5018	35000	9:10:57.389,35000
9:11:05	9	11	5.392	18.2803	15.2623	35000	9:11:05.392,35000
9:11:13	9	11	13.368	17.9123	16.2794	35000	9:11:13.368,35000
9:11:21	9	11	21.311	17.6074	17.0976	35000	9:11:21.311,35000
9:11:29	9	11	29.302	17.2526	17.943	35000	9:11:29.302,35000
9:11:37	9	11	37.26	16.8842	18.9686	35000	9:11:37.260,35000
9:11:45	9	11	45.252	16.3928	20.0055	35000	9:11:45.252,35000
9:11:53	9	11	53.235	16.1157	20.779	35000	9:11:53.235,35000
9:12:01	9	12	1.229	15.8529	21.6788	35000	9:12:01.229,35000
9:12:09	9	12	9.232	15.4673	22.5891	35000	9:12:09.232,35000
9:12:17	9	12	17.197	15.2328	23.4188	34600	9:12:17.197,34600
9:12:25	9	12	25.211	15.0552	24.3662	31900	9:12:25.211,31900
9:12:33	9	12	33.163	14.5295	25.4776	27000	9:12:33.163,27000
9:12:41	9	12	41.178	14.4943	26.2417	19500	9:12:41.178,19500

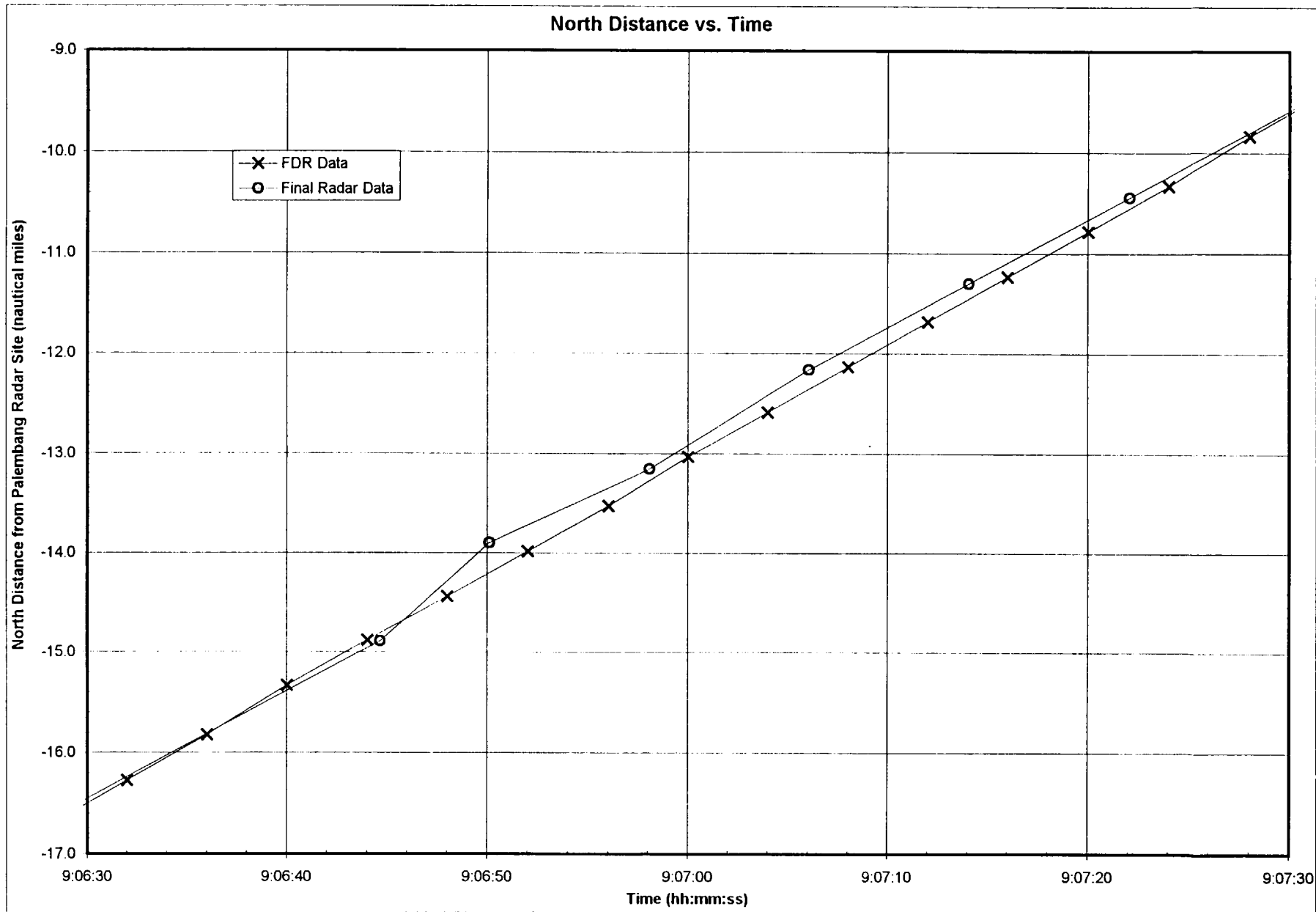
Attachments VI – Graphical Plots: Final North/East Distance versus Final Time

1-IV

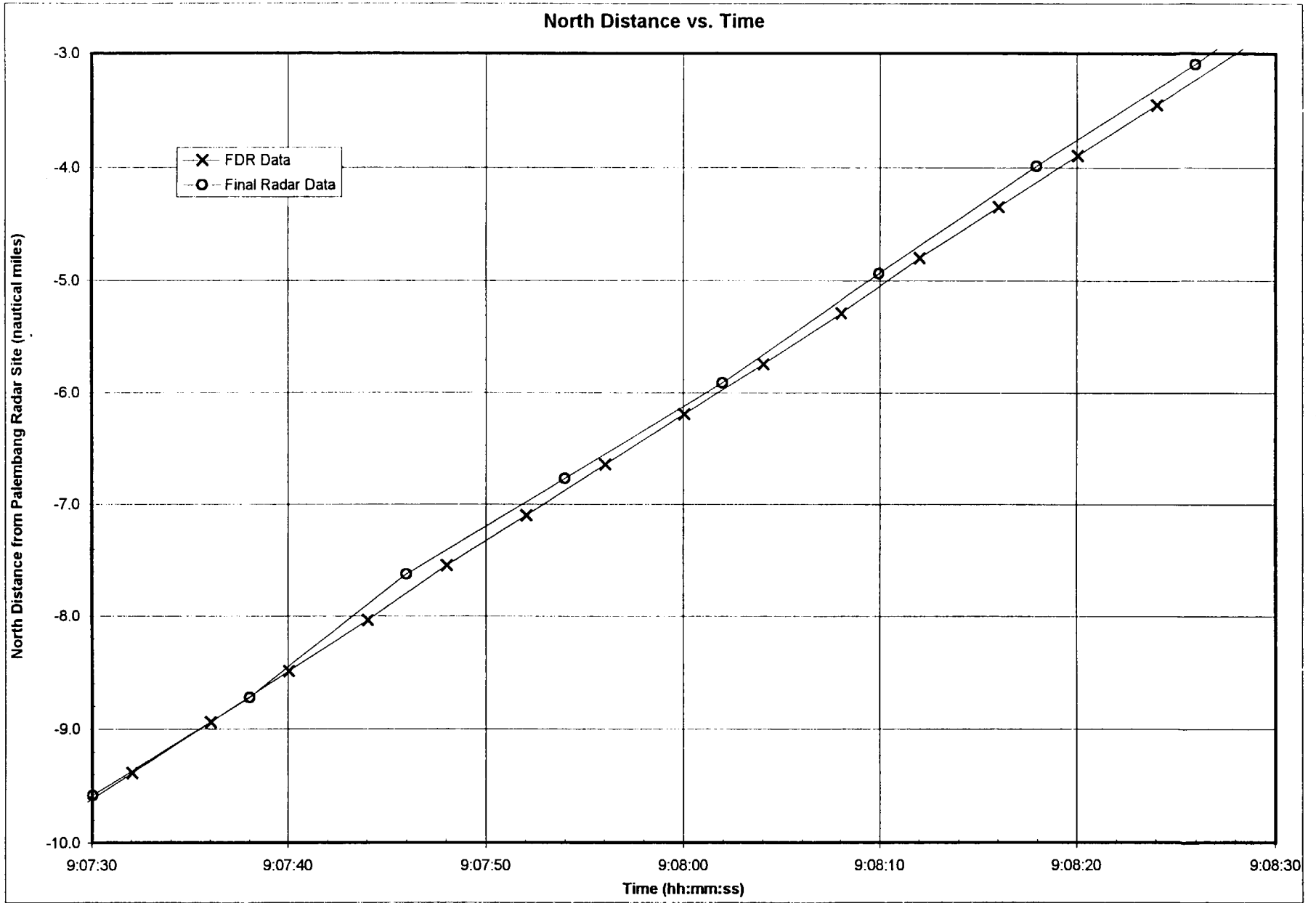
North Distance vs. Time



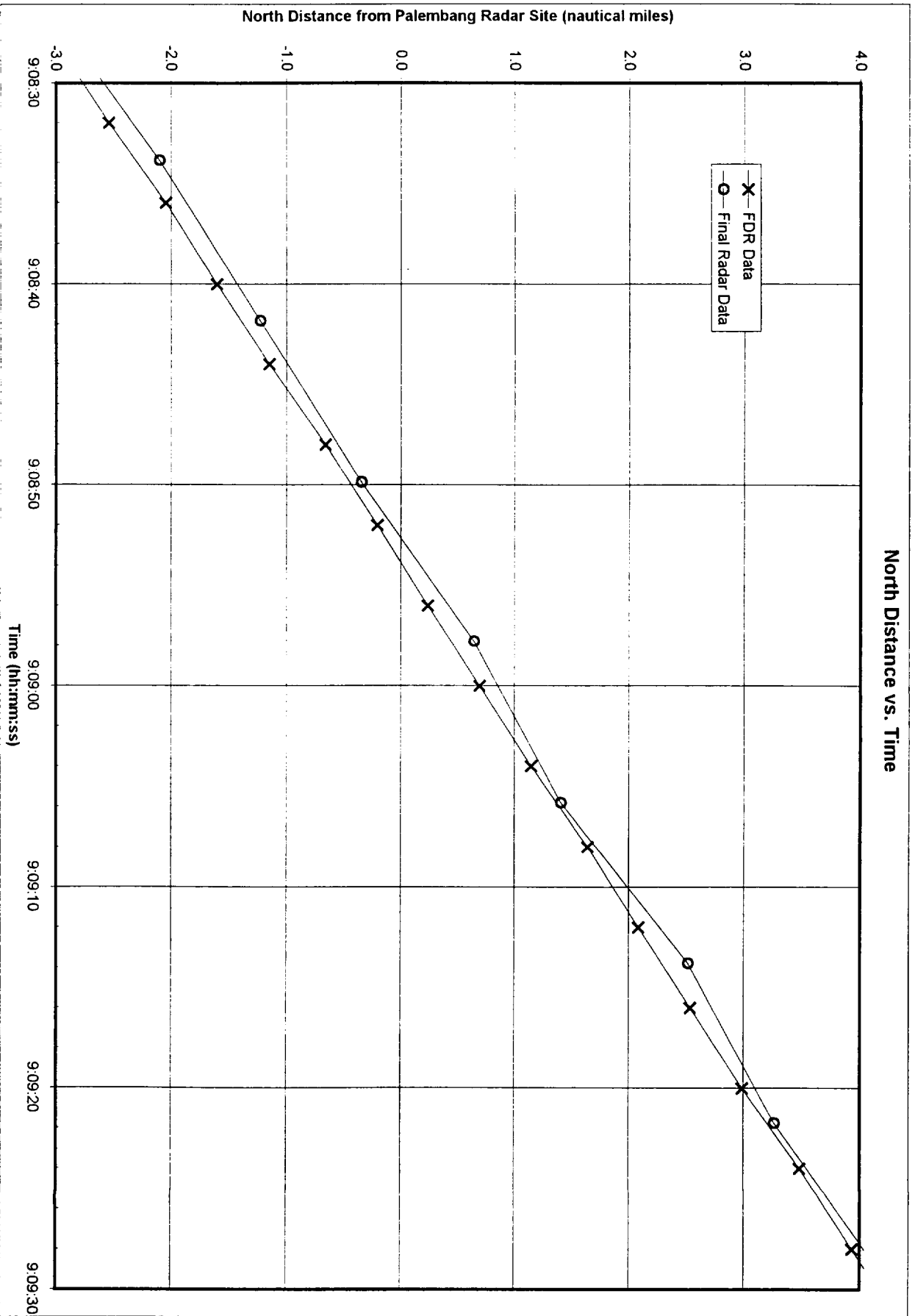
VI-8



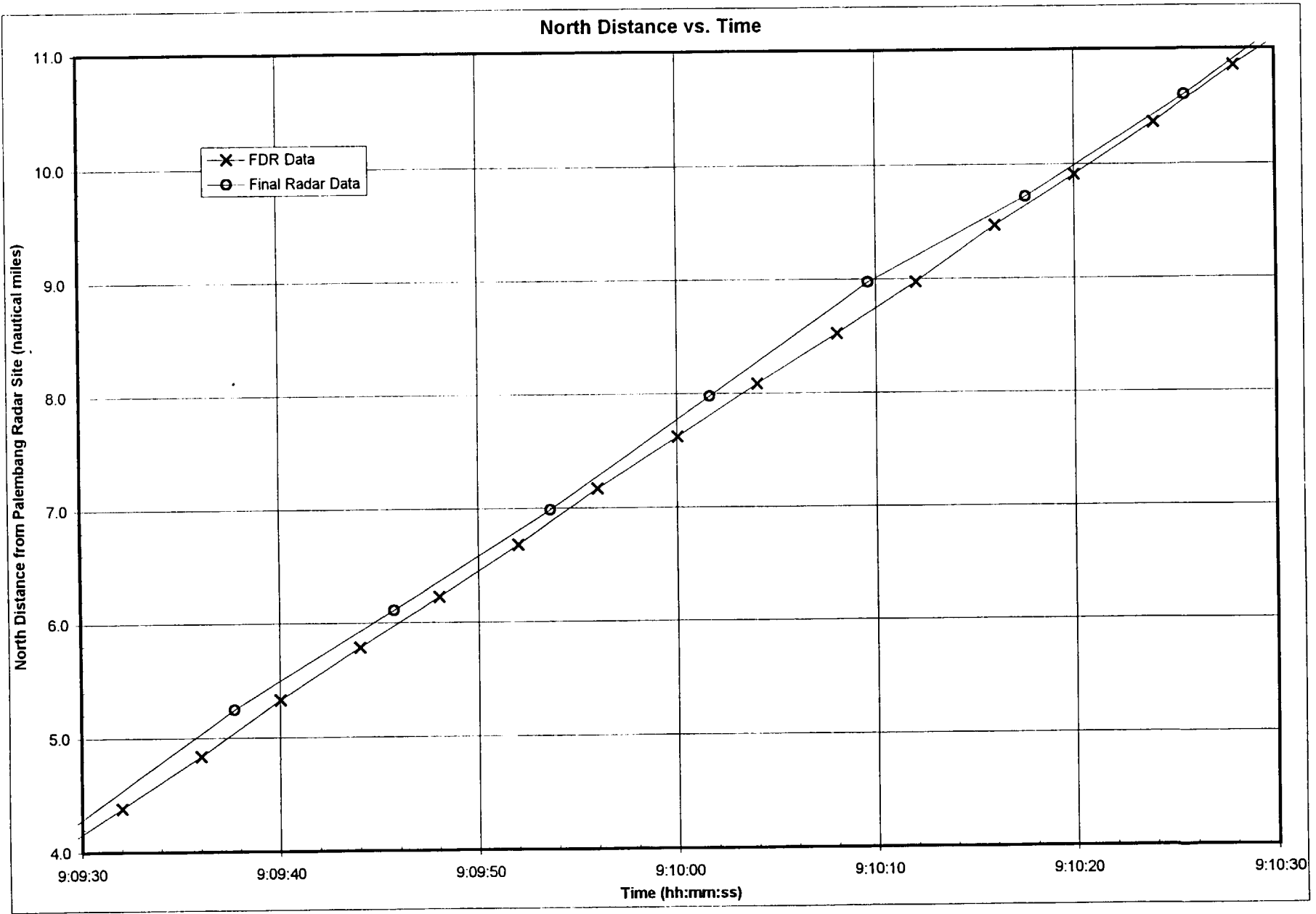
5-11



4-III

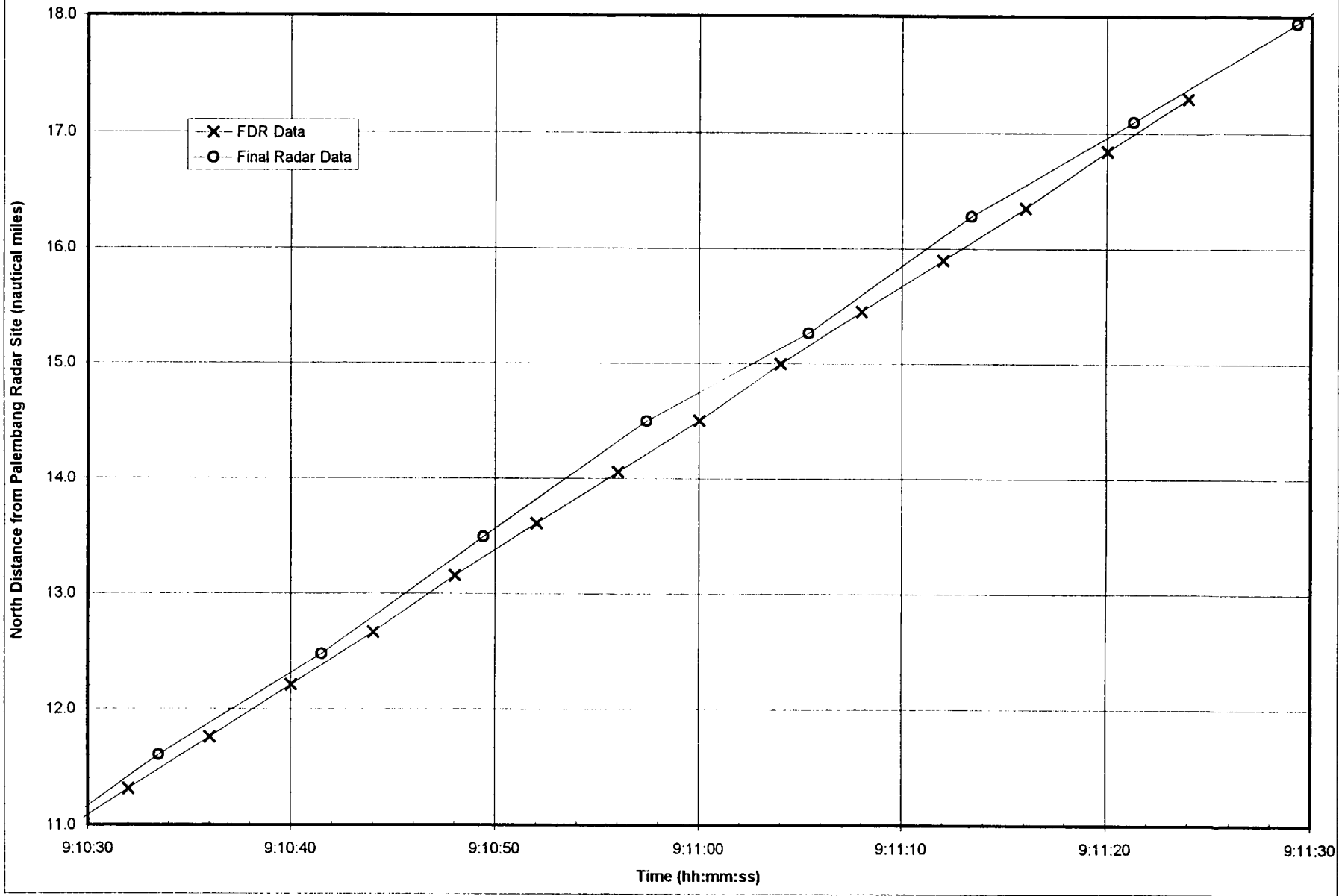


5-11

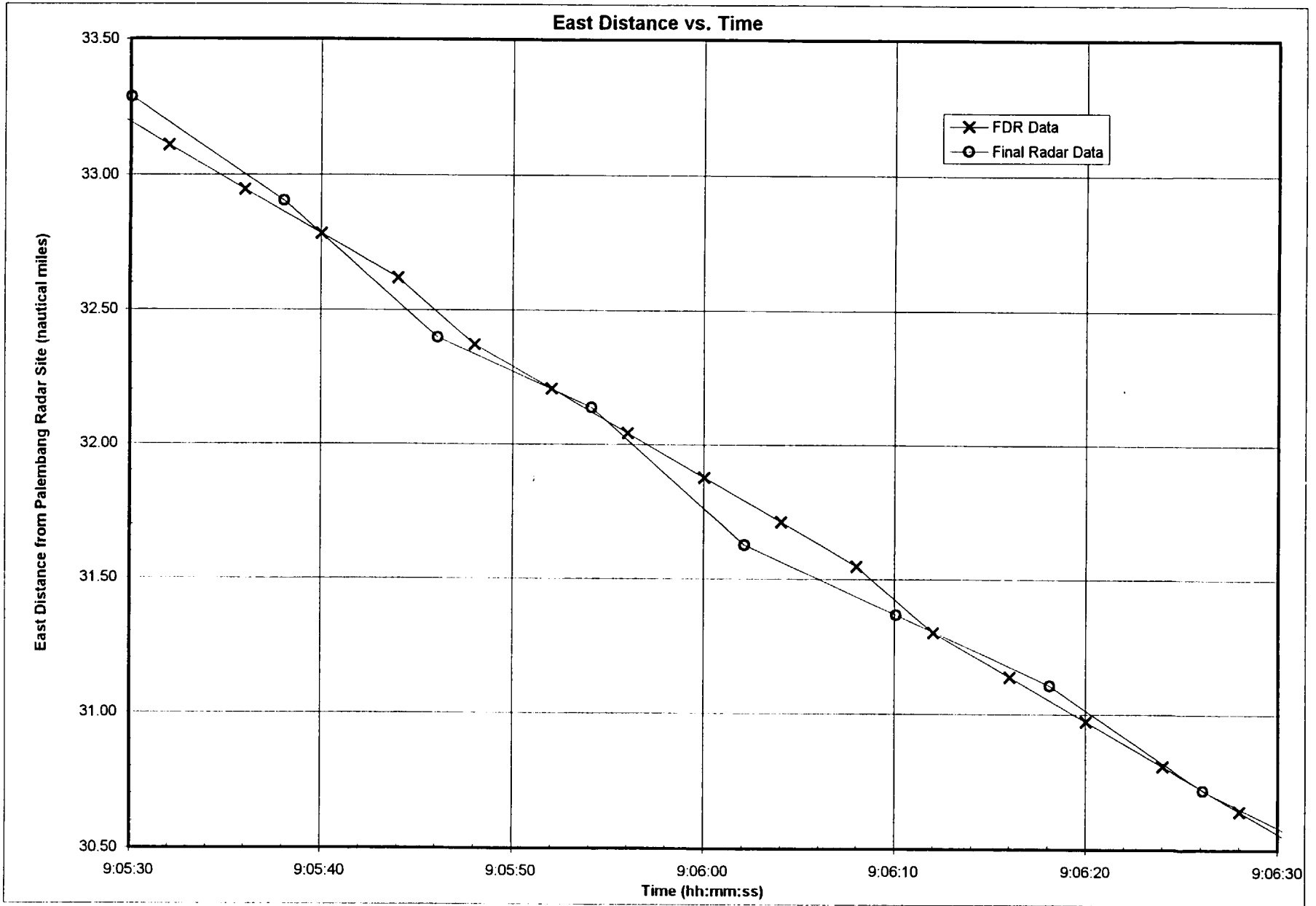


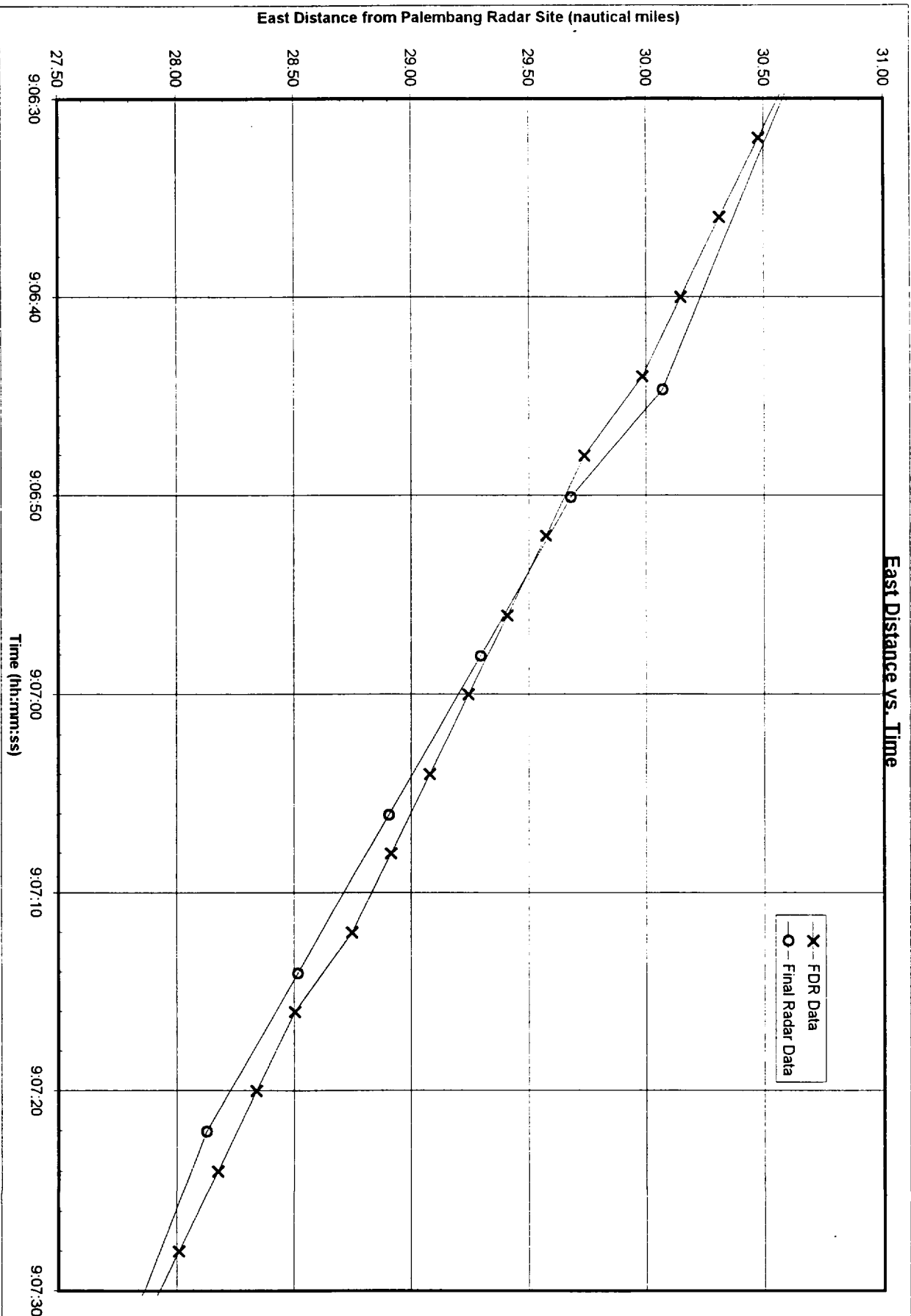
9-11

North Distance vs. Time



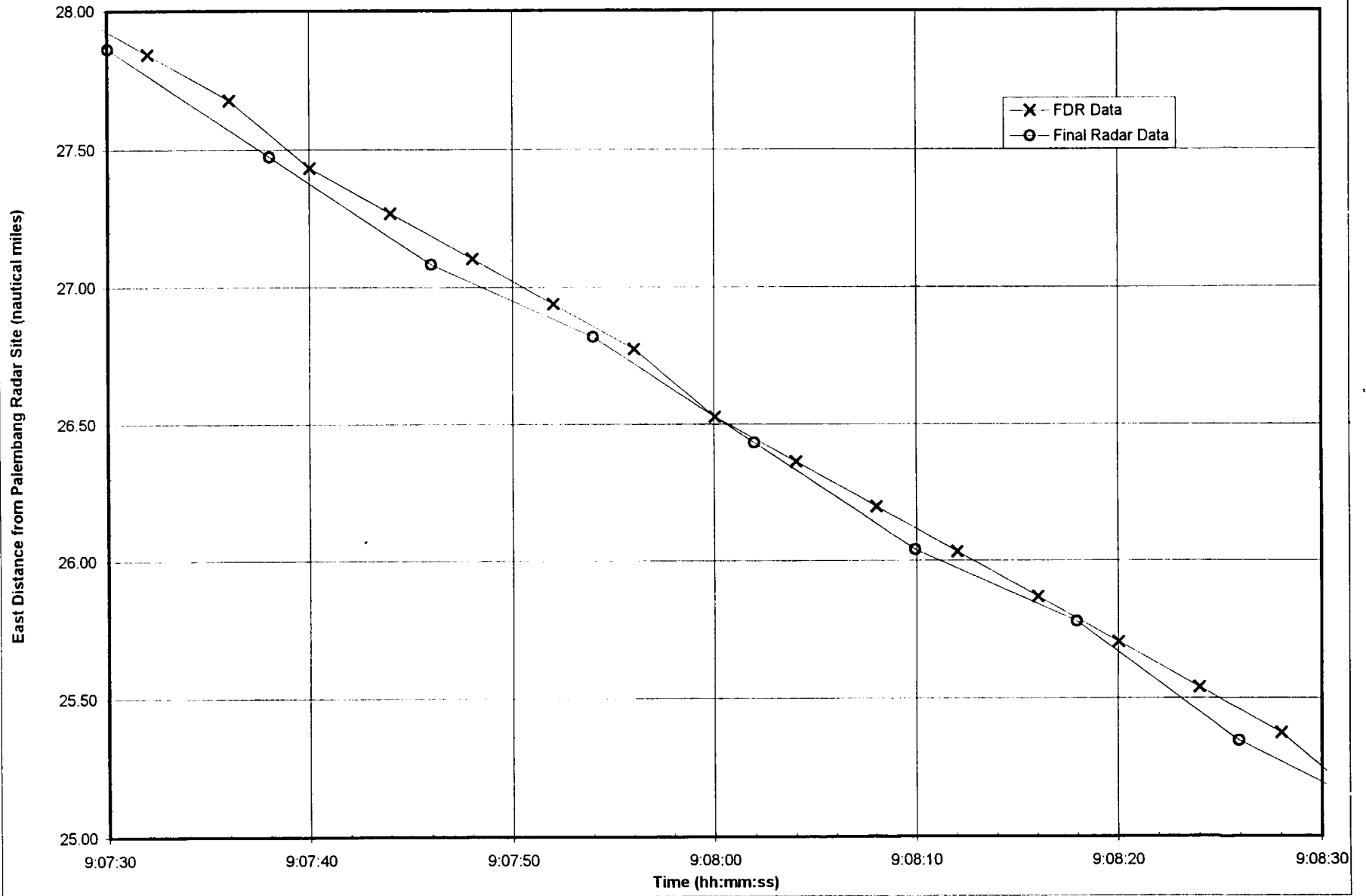
L-IV



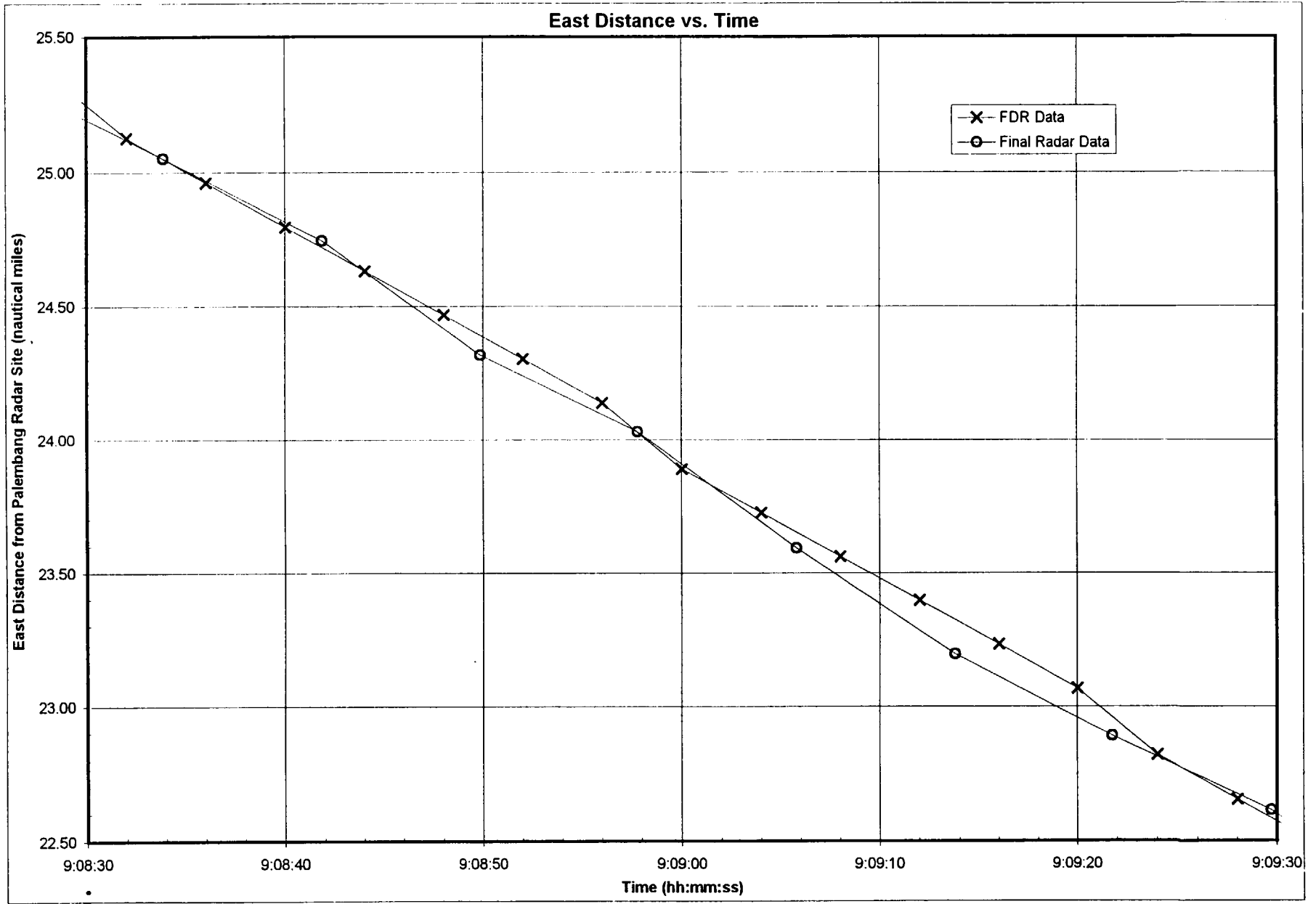


b-III

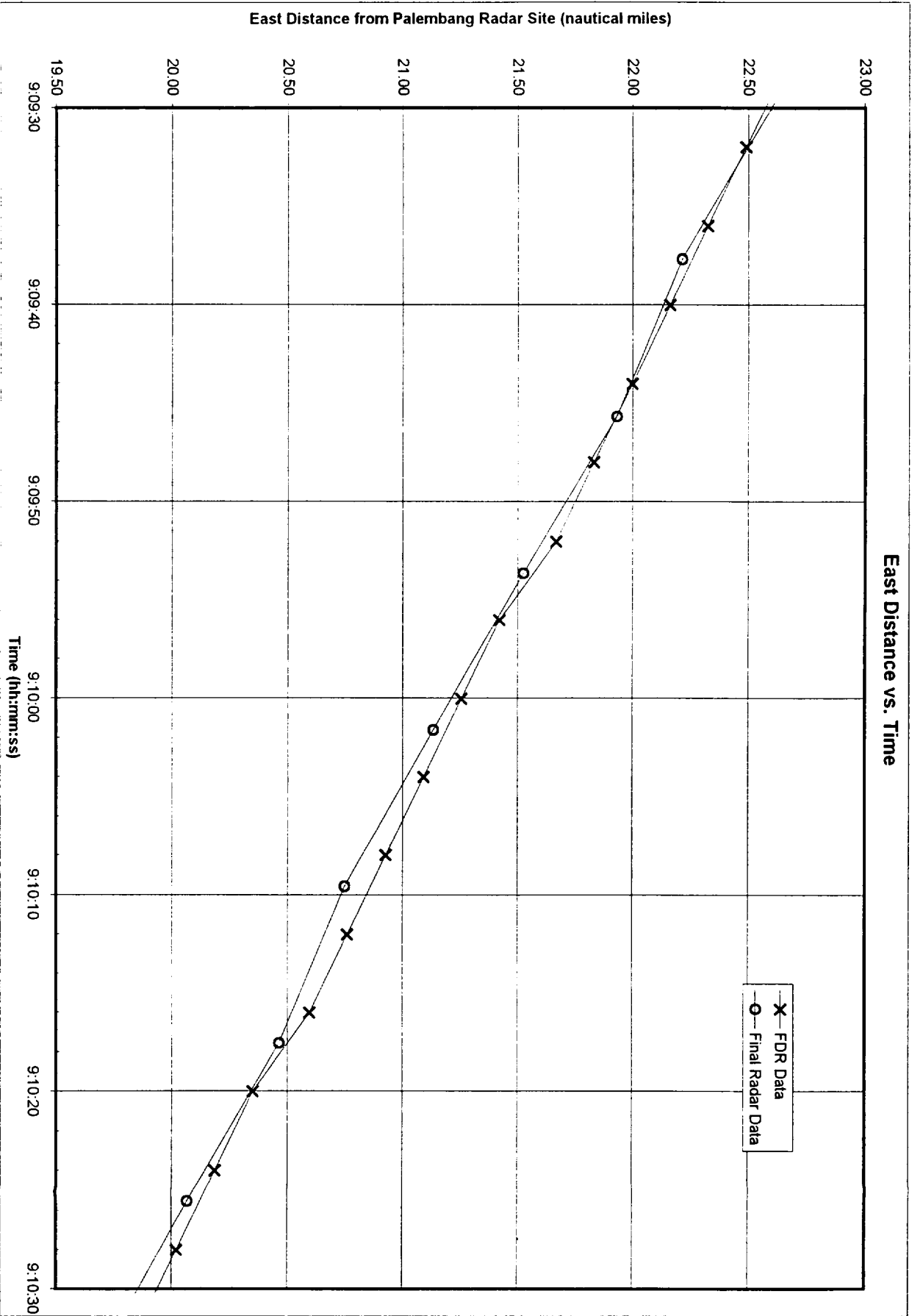
East Distance vs. Time



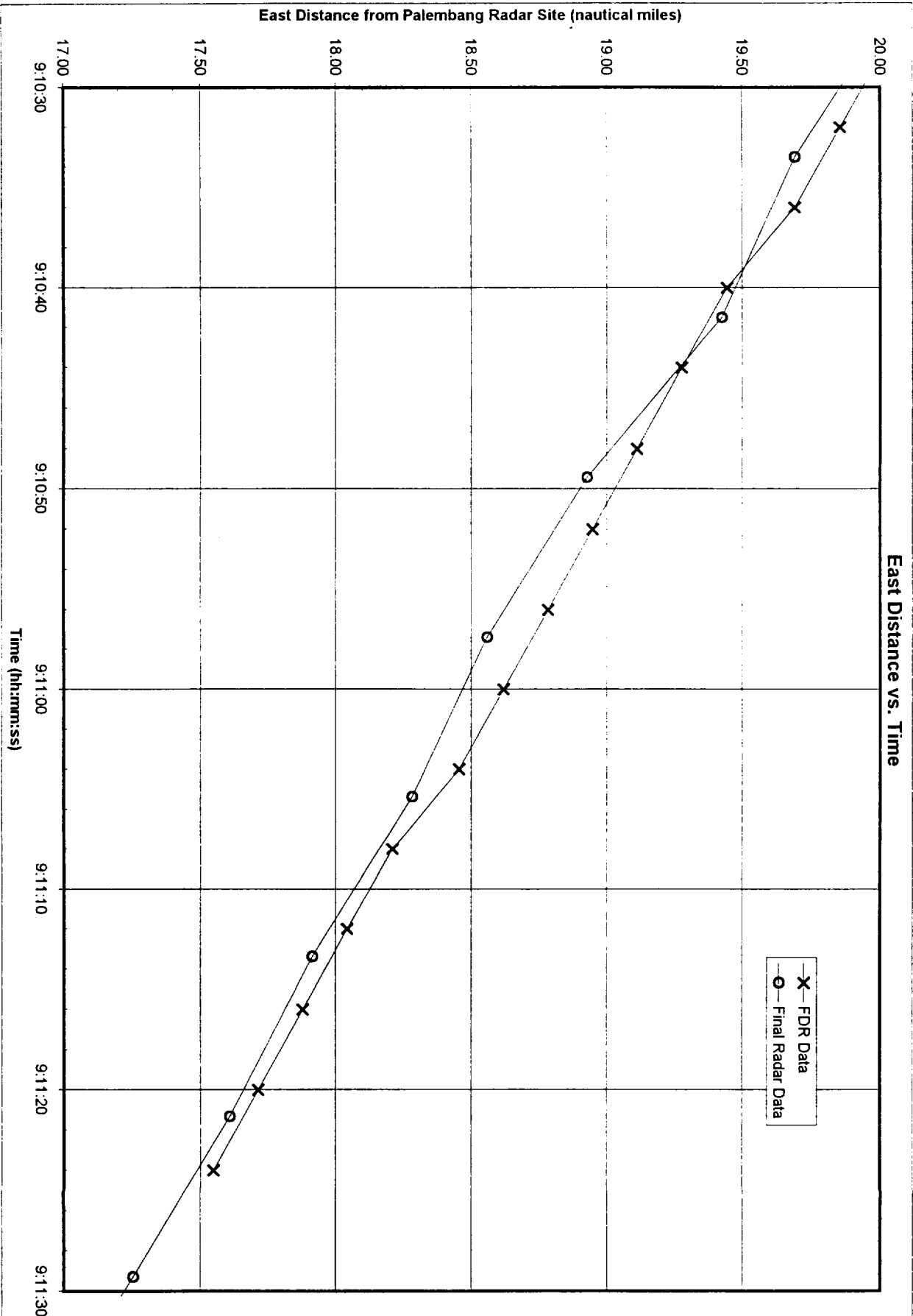
VI-10



11-1A



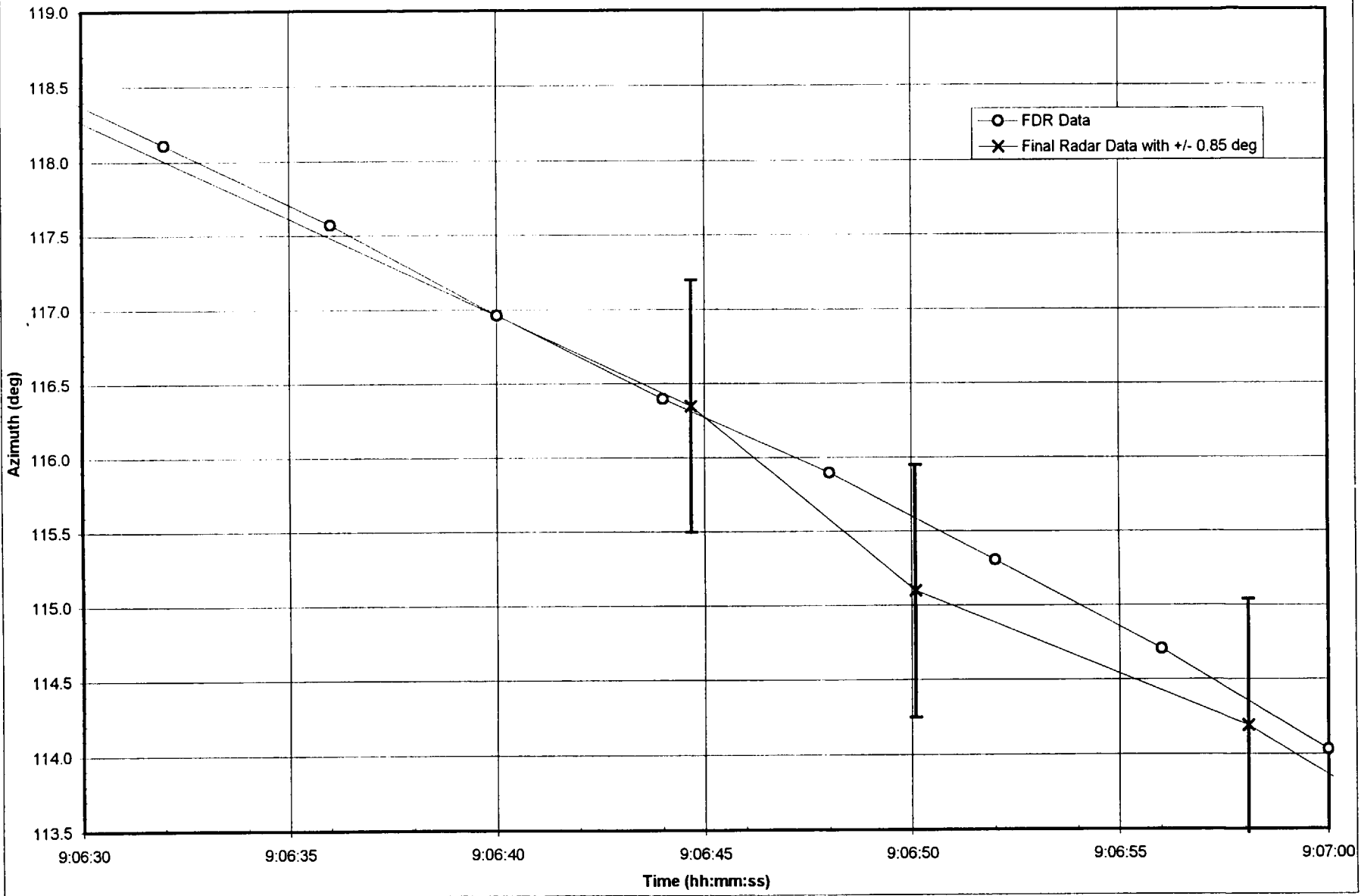
VI-12



Attachments VII - Graphical Plots: Final Azimuth/Range versus Final Time

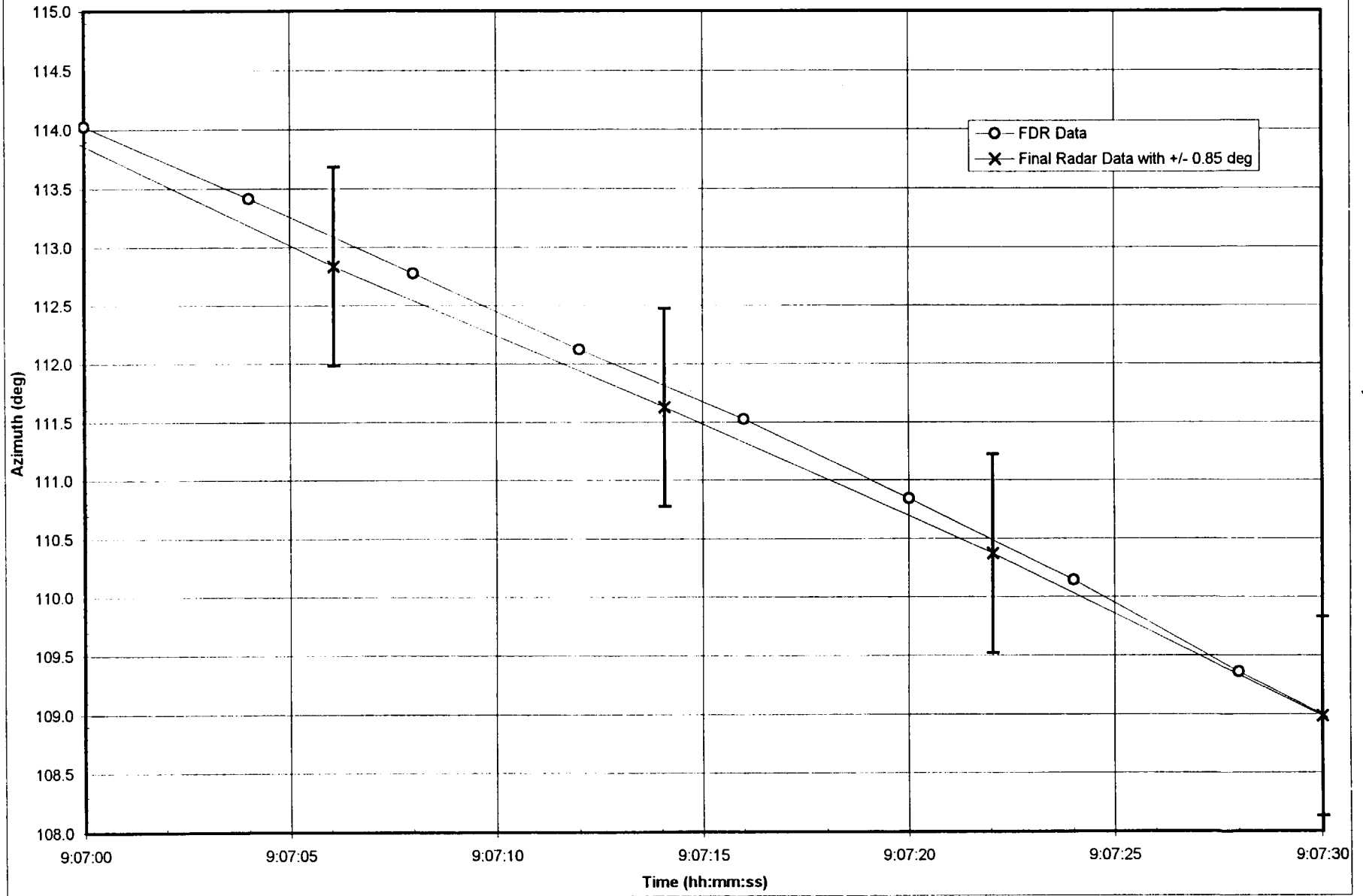
1- III

Azimuth vs. Time



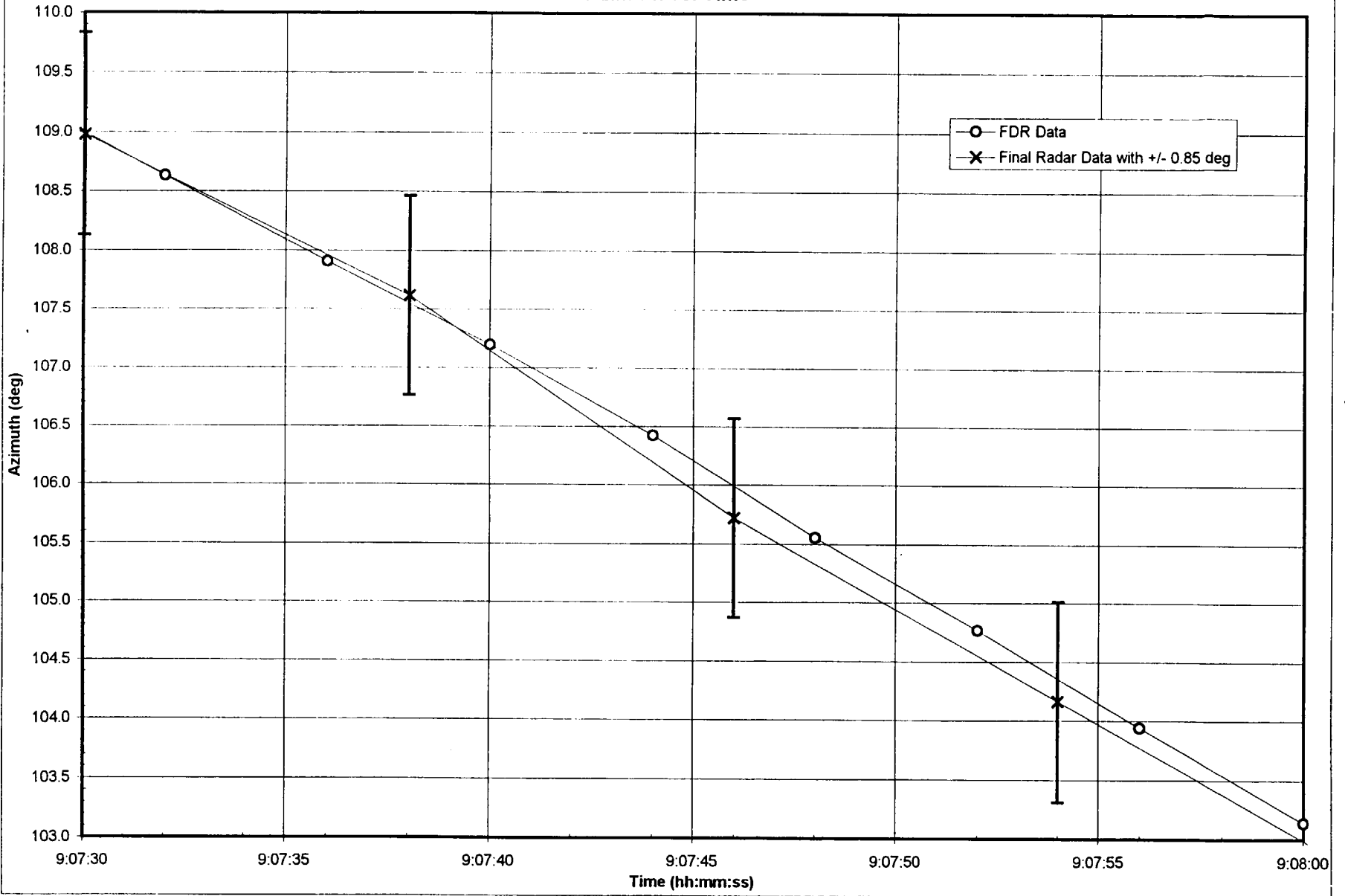
VII-2

Azimuth vs. Time



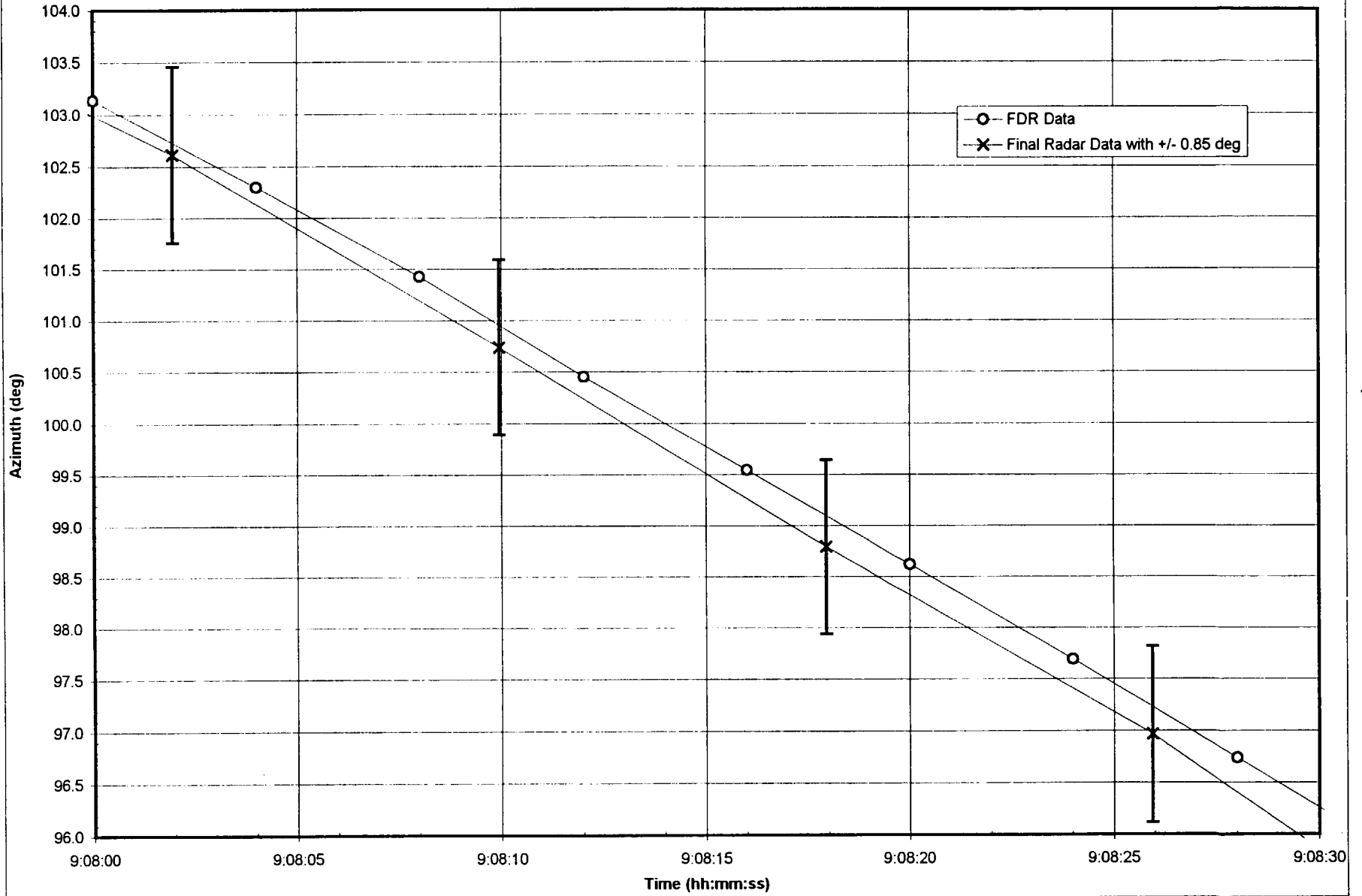
5-III

Azimuth vs. Time



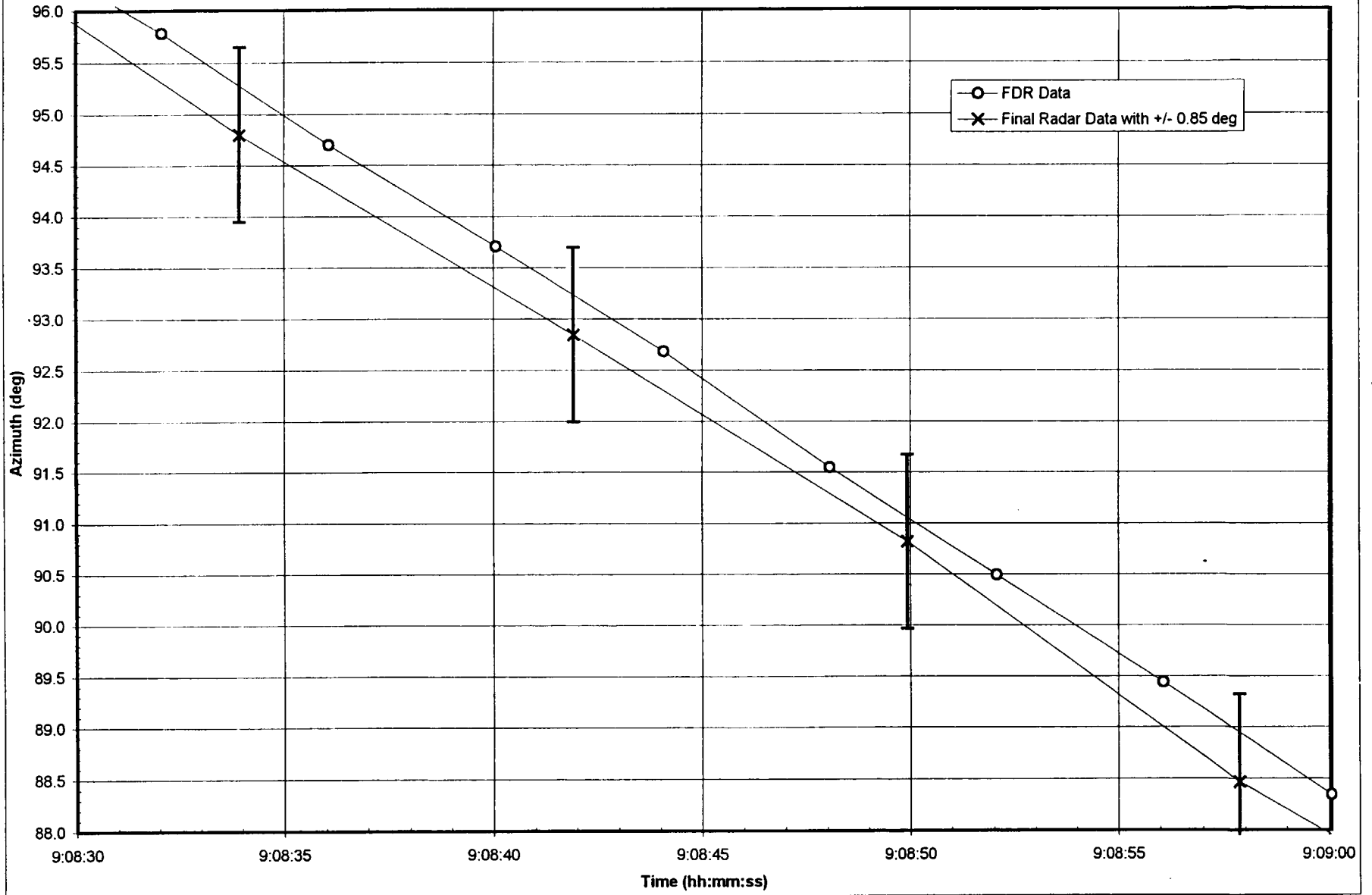
4-114

Azimuth vs. Time



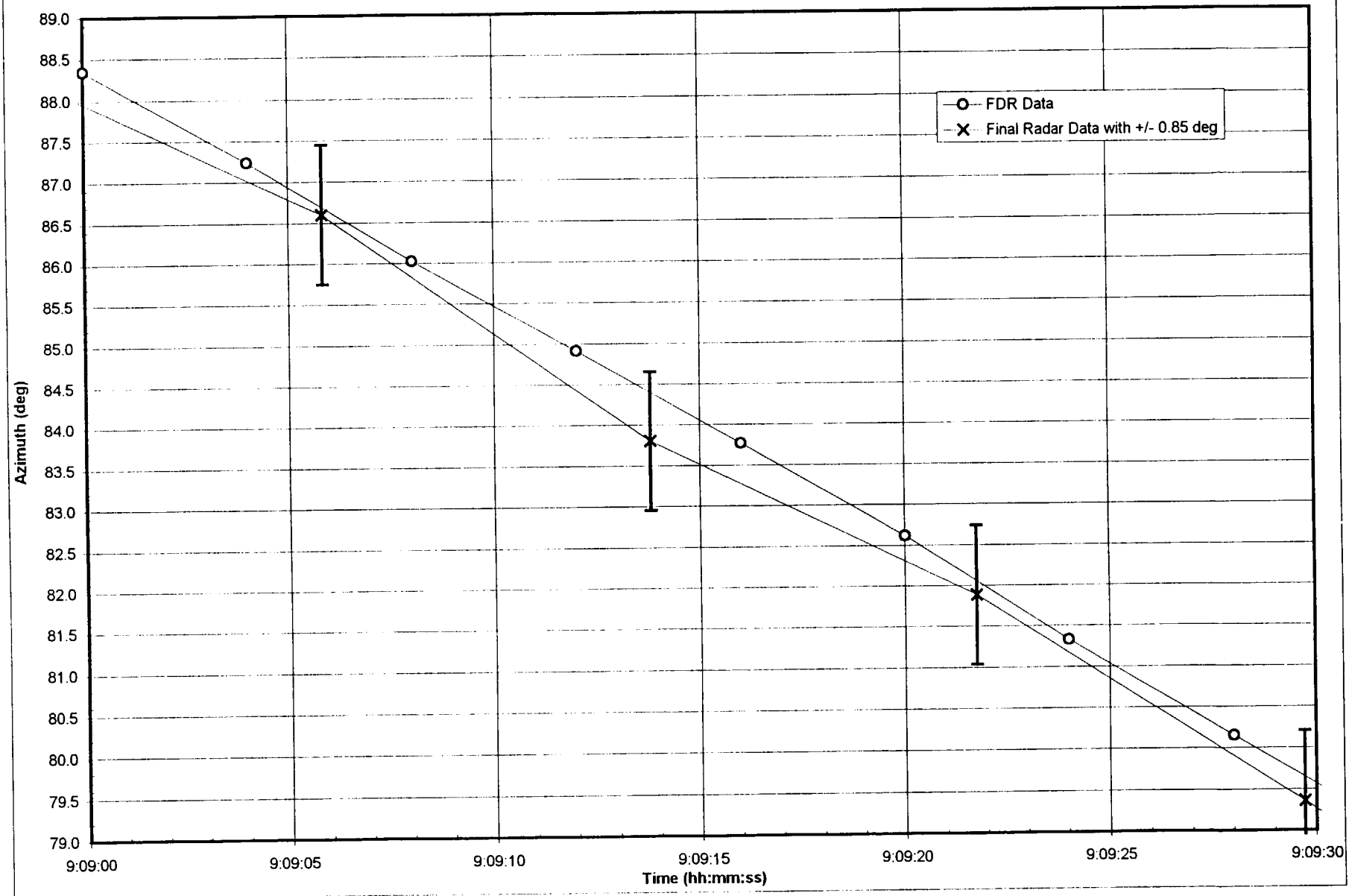
S-III

Azimuth vs. Time



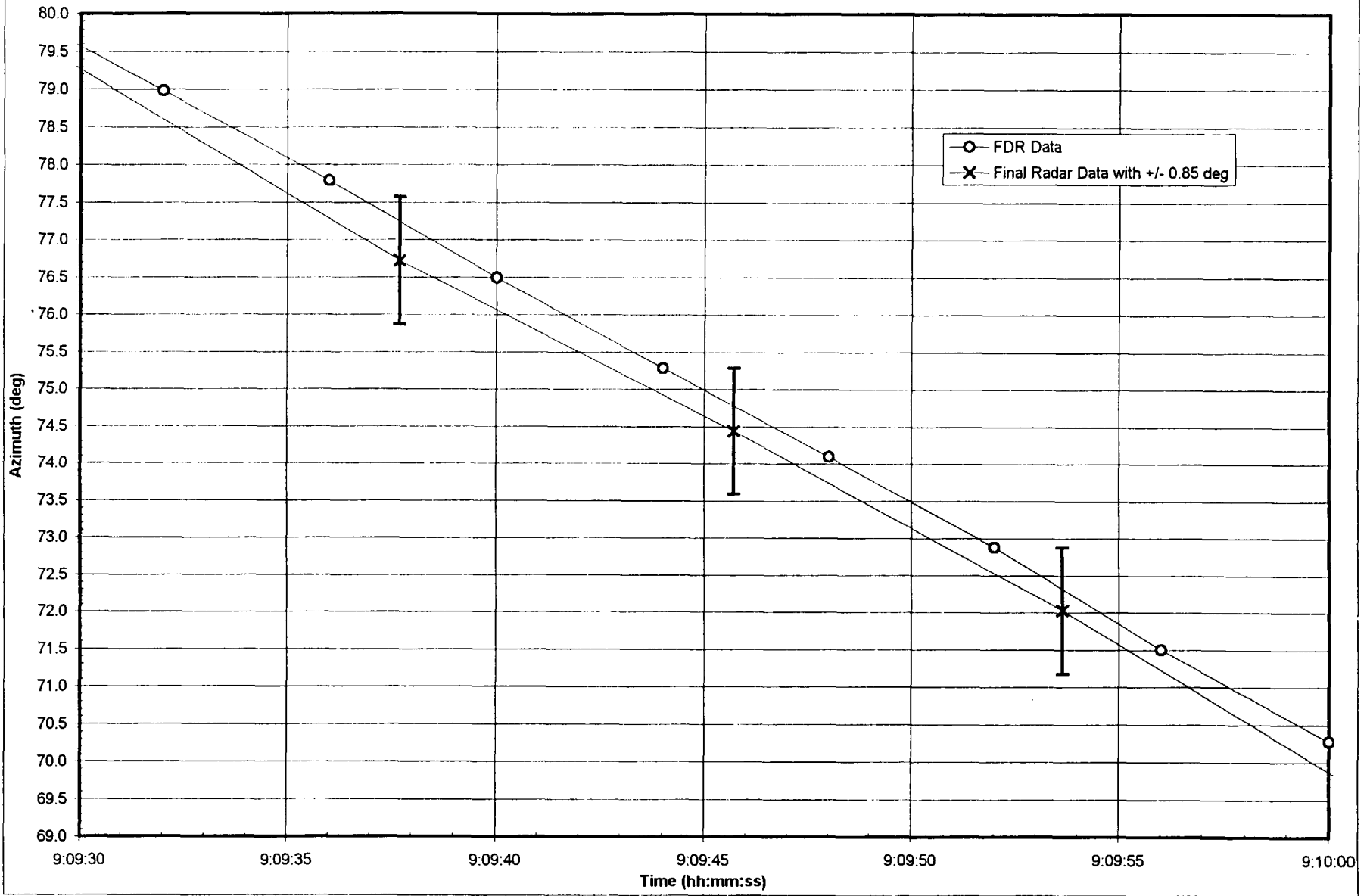
VI-1

Azimuth vs. Time



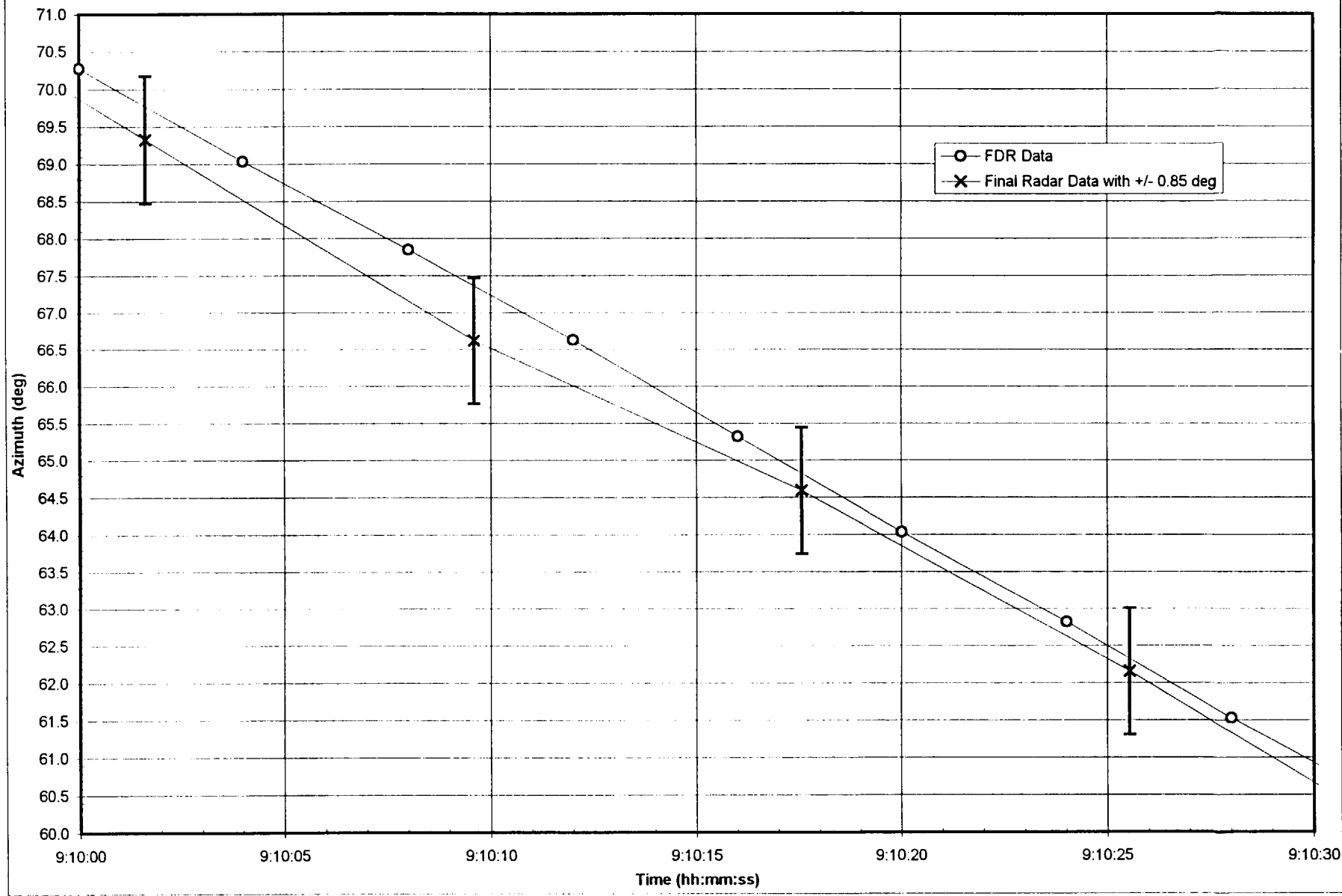
VII-7

Azimuth vs. Time



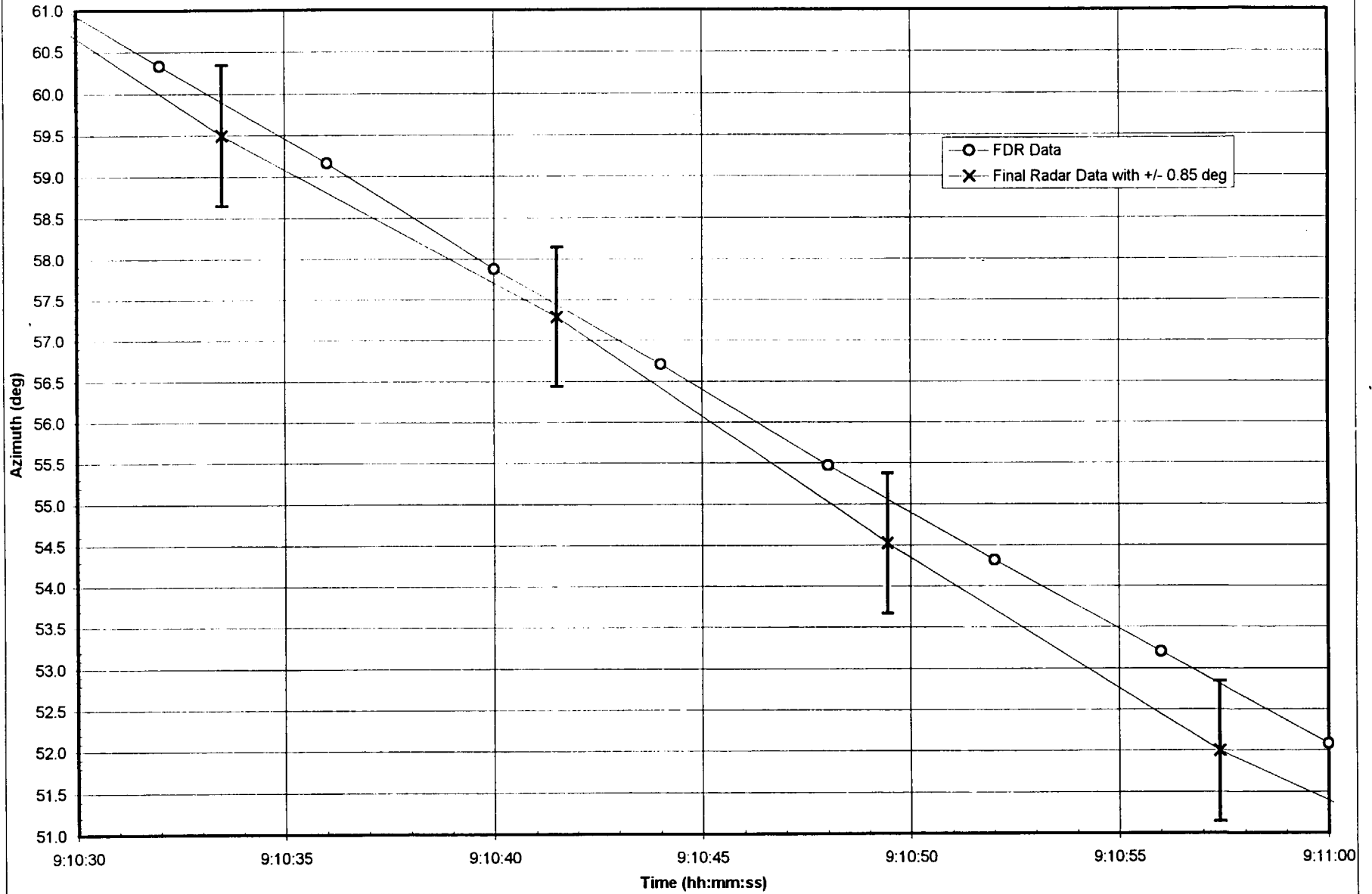
3.11

Azimuth vs. Time



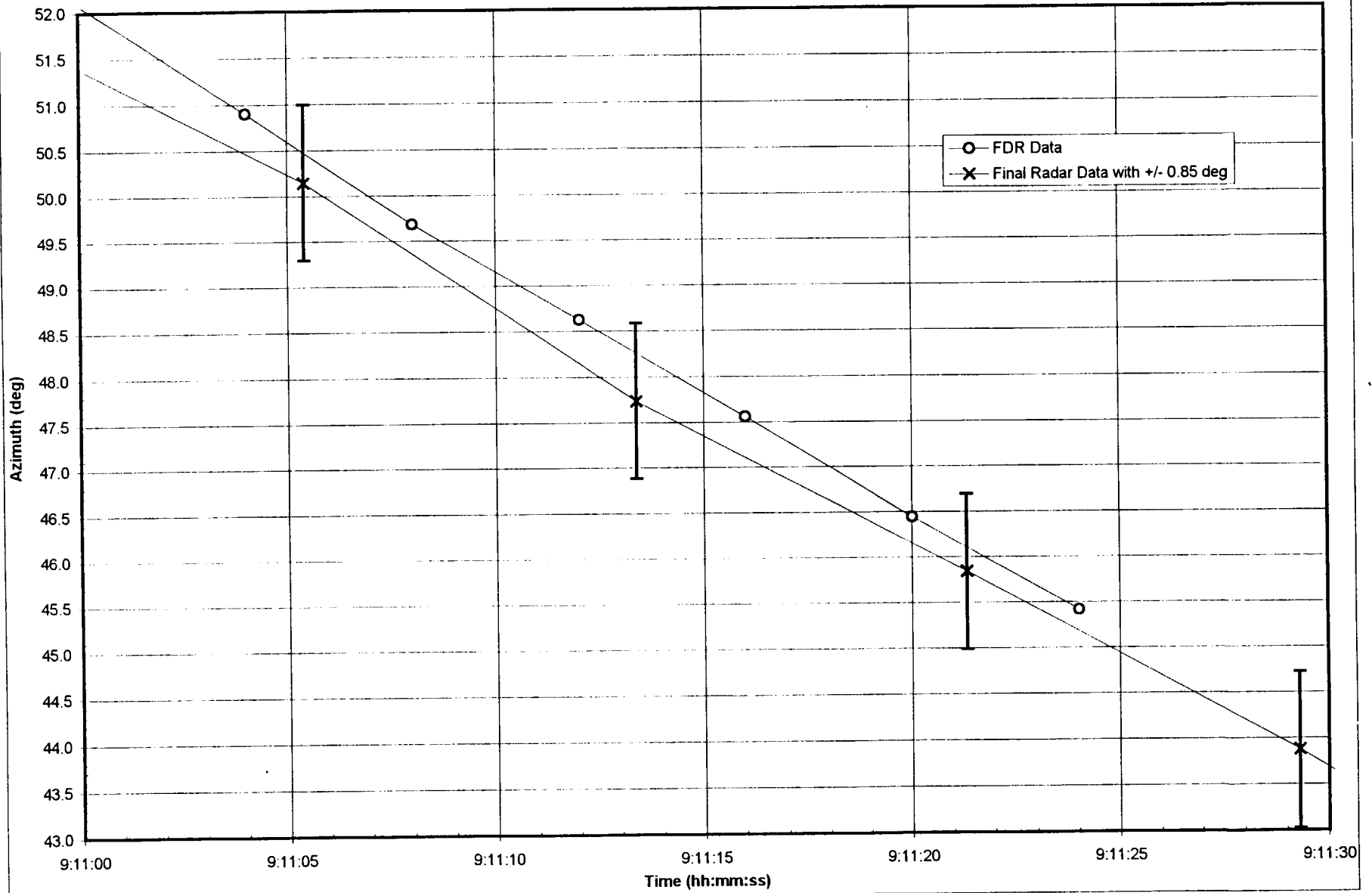
6-III

Azimuth vs. Time



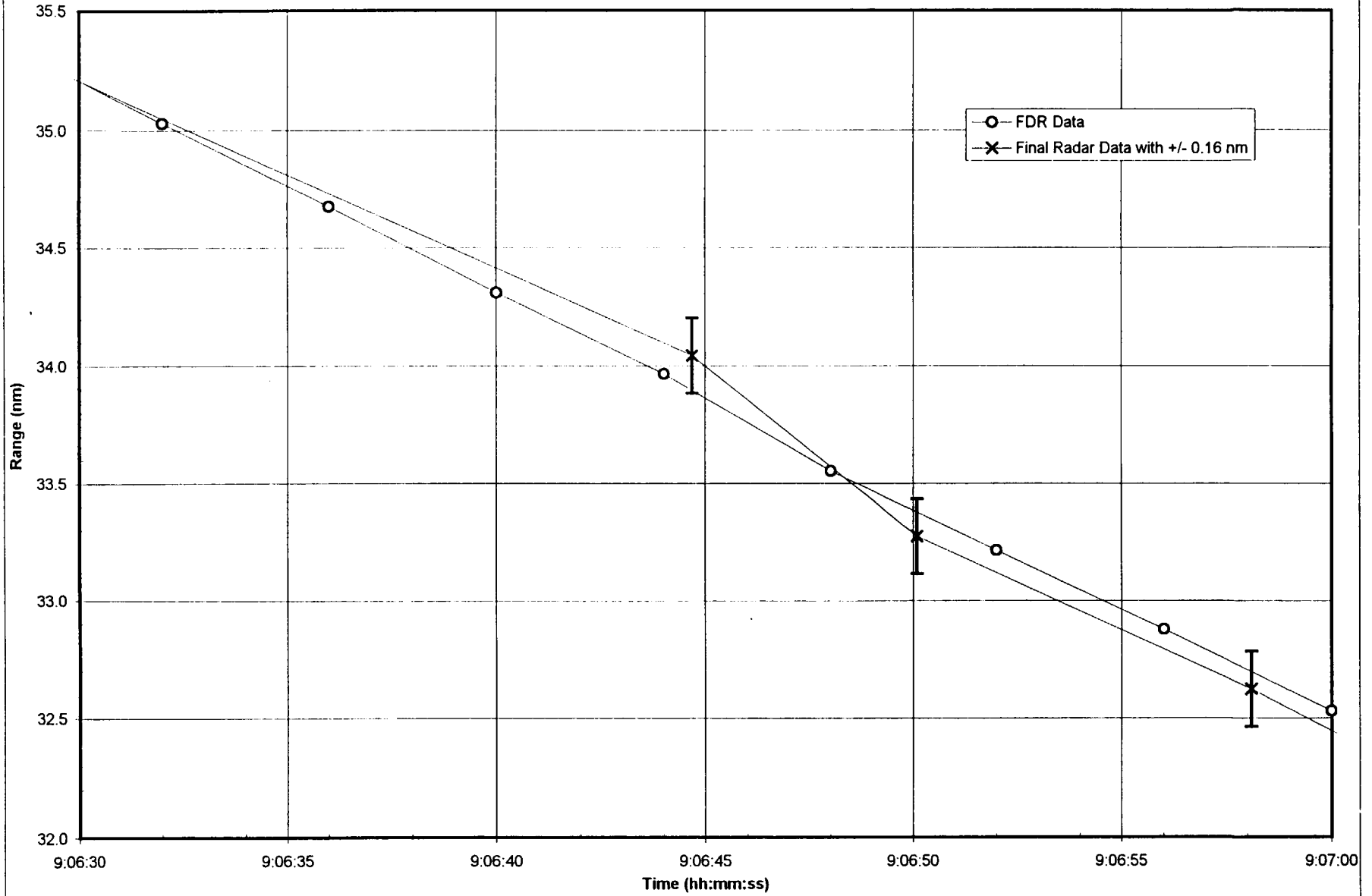
01-11A

Azimuth vs. Time

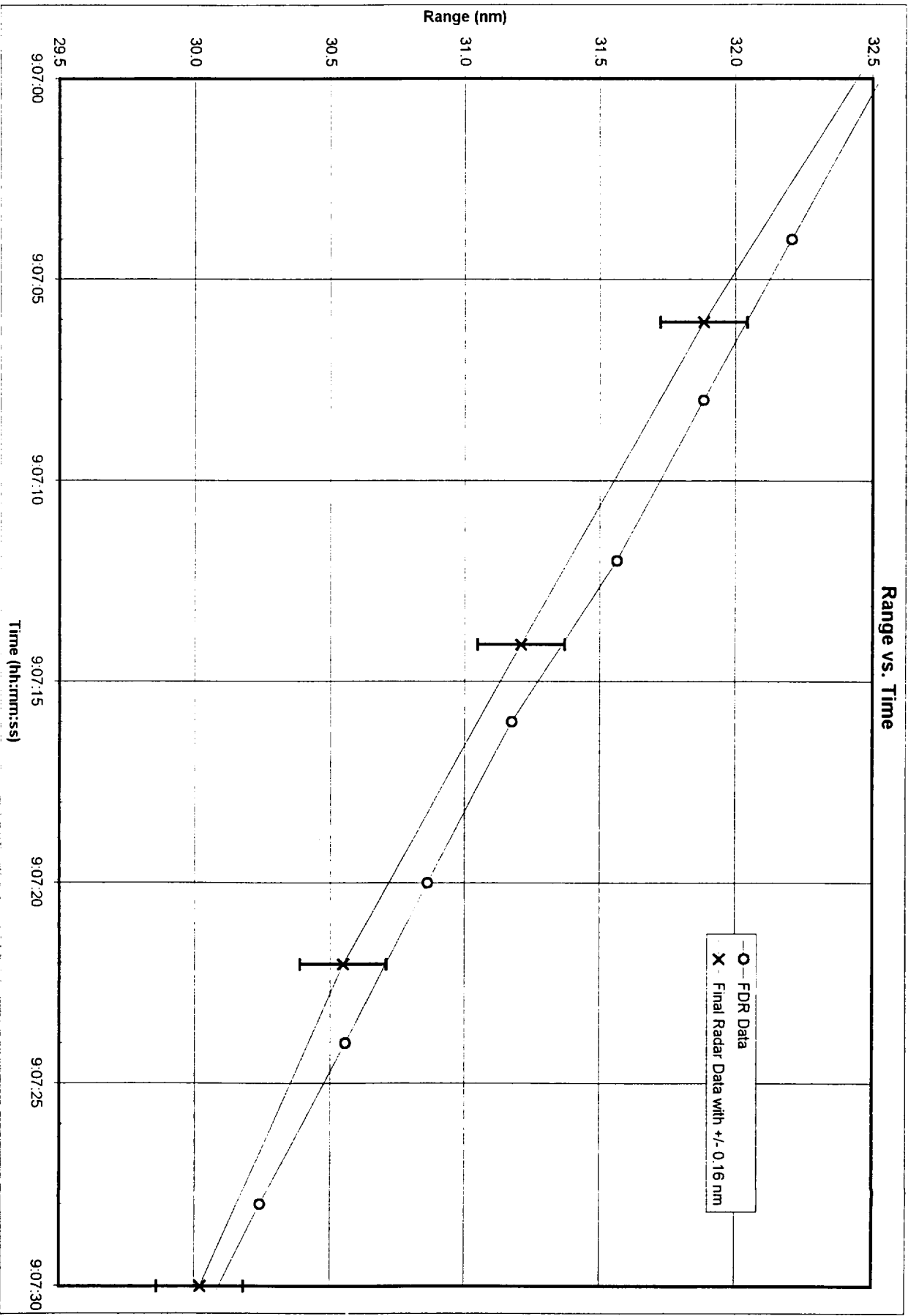


VII-11

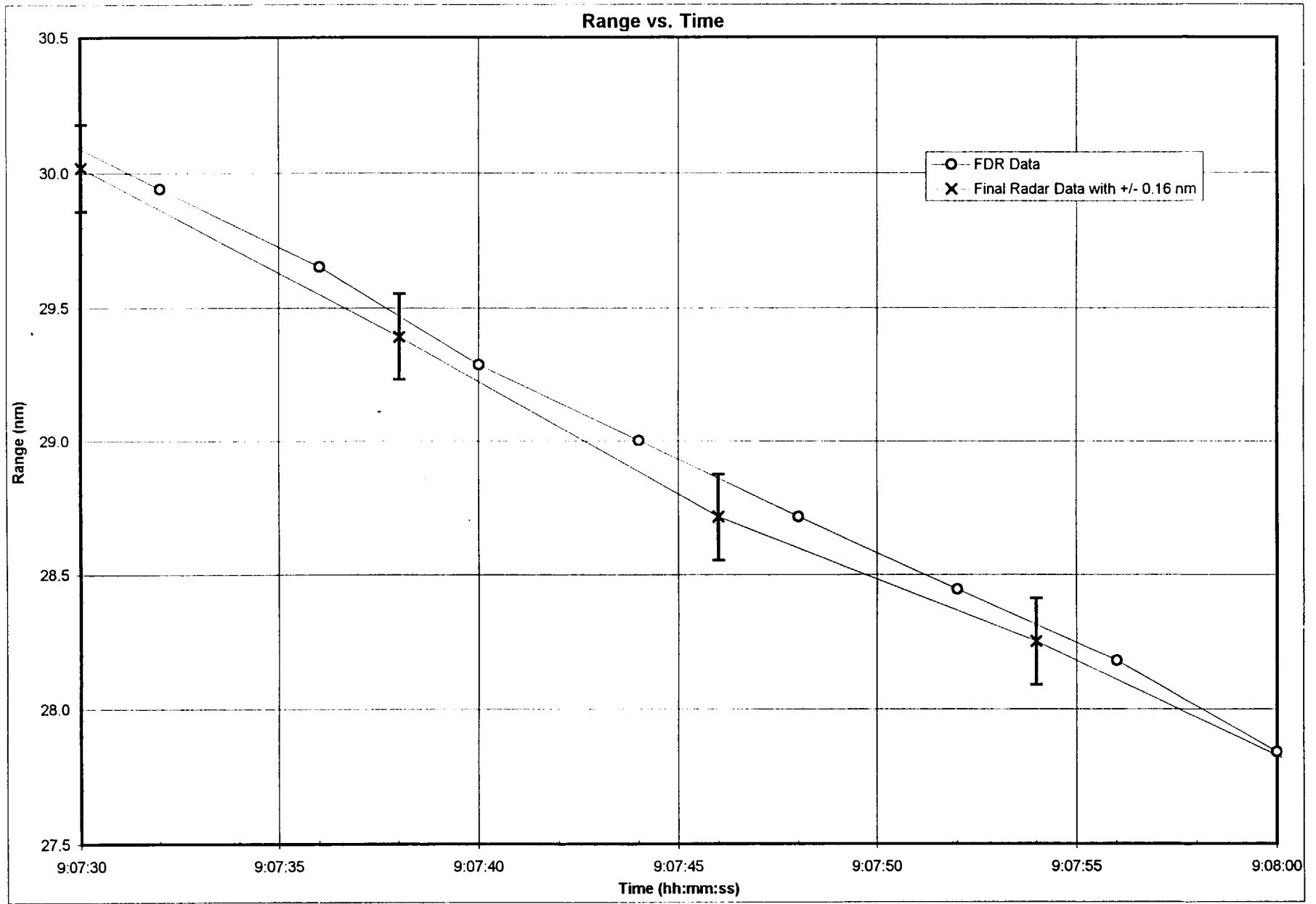
Range vs. Time



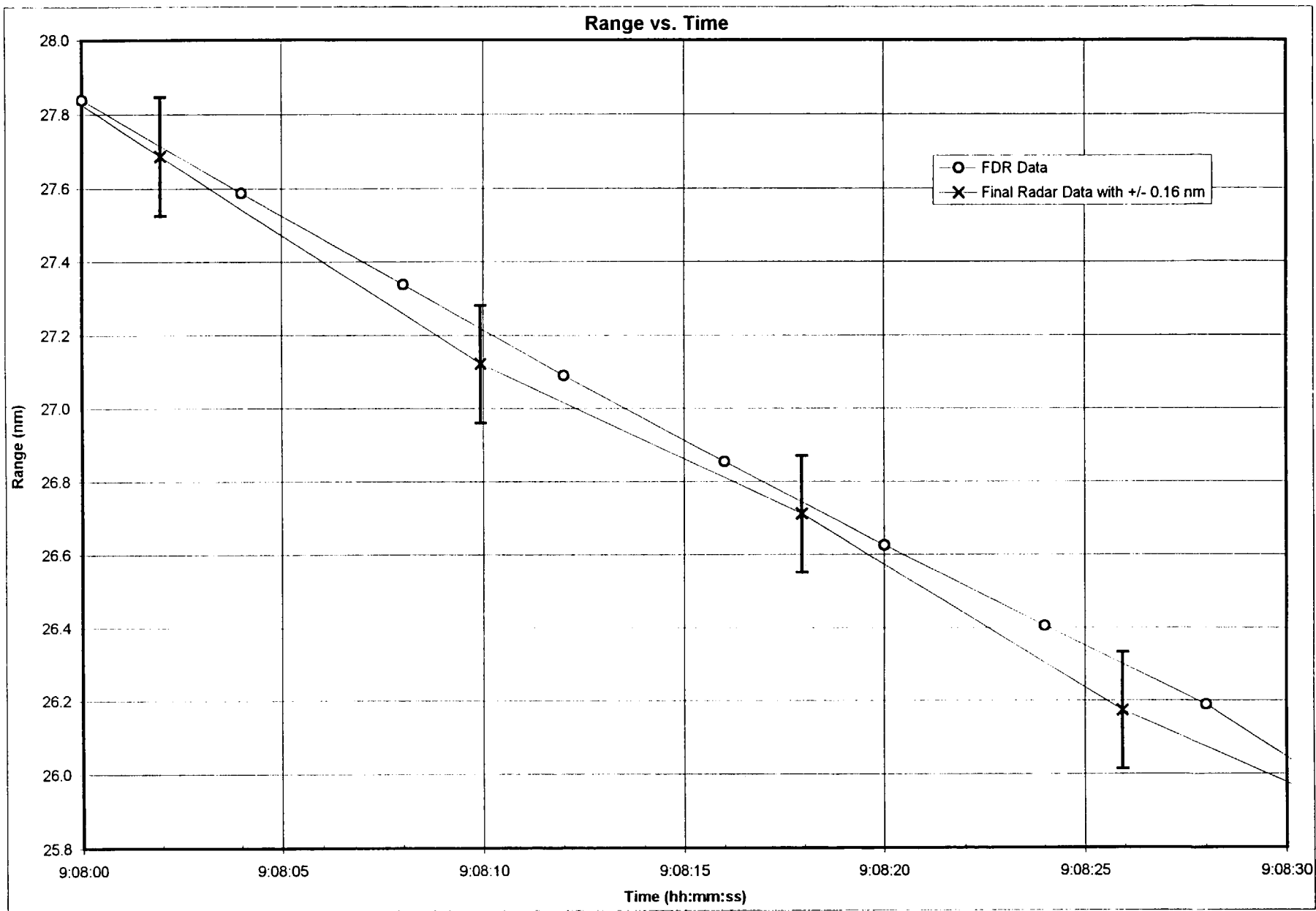
12-11



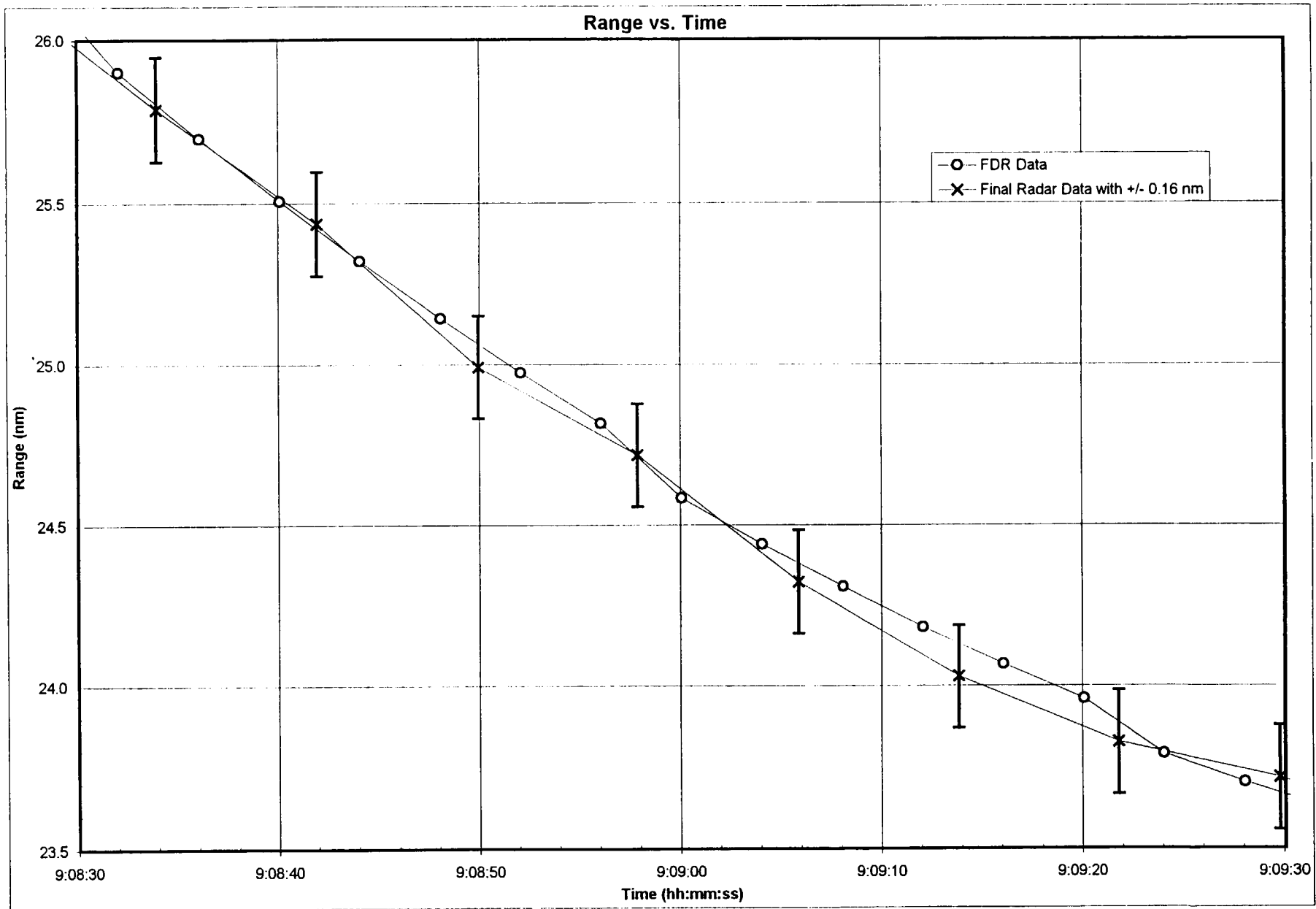
VII-13



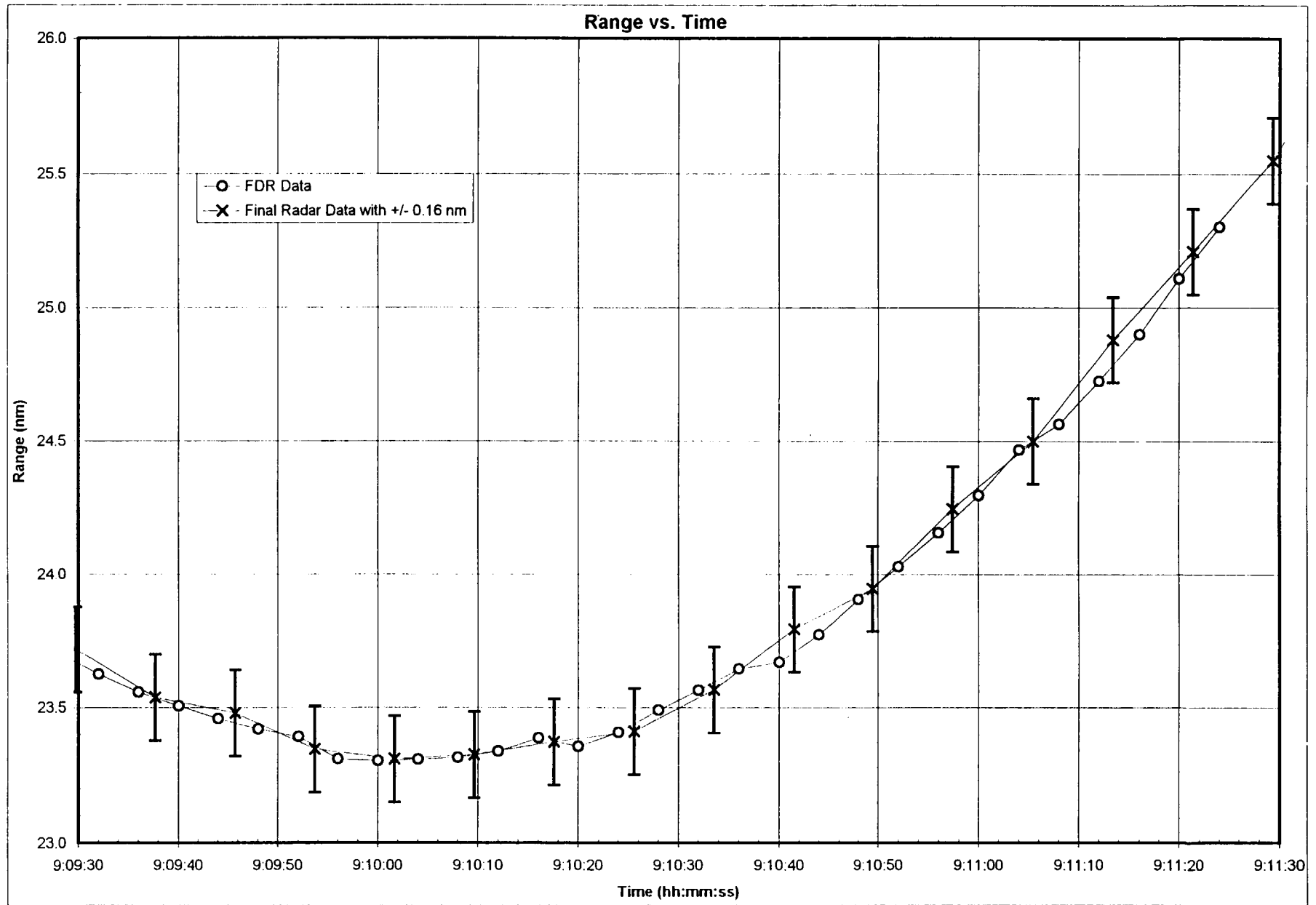
71-118



51-11A



91-10



Attachments VIII – Data File: Error Box Data for Last 12 Radar Returns

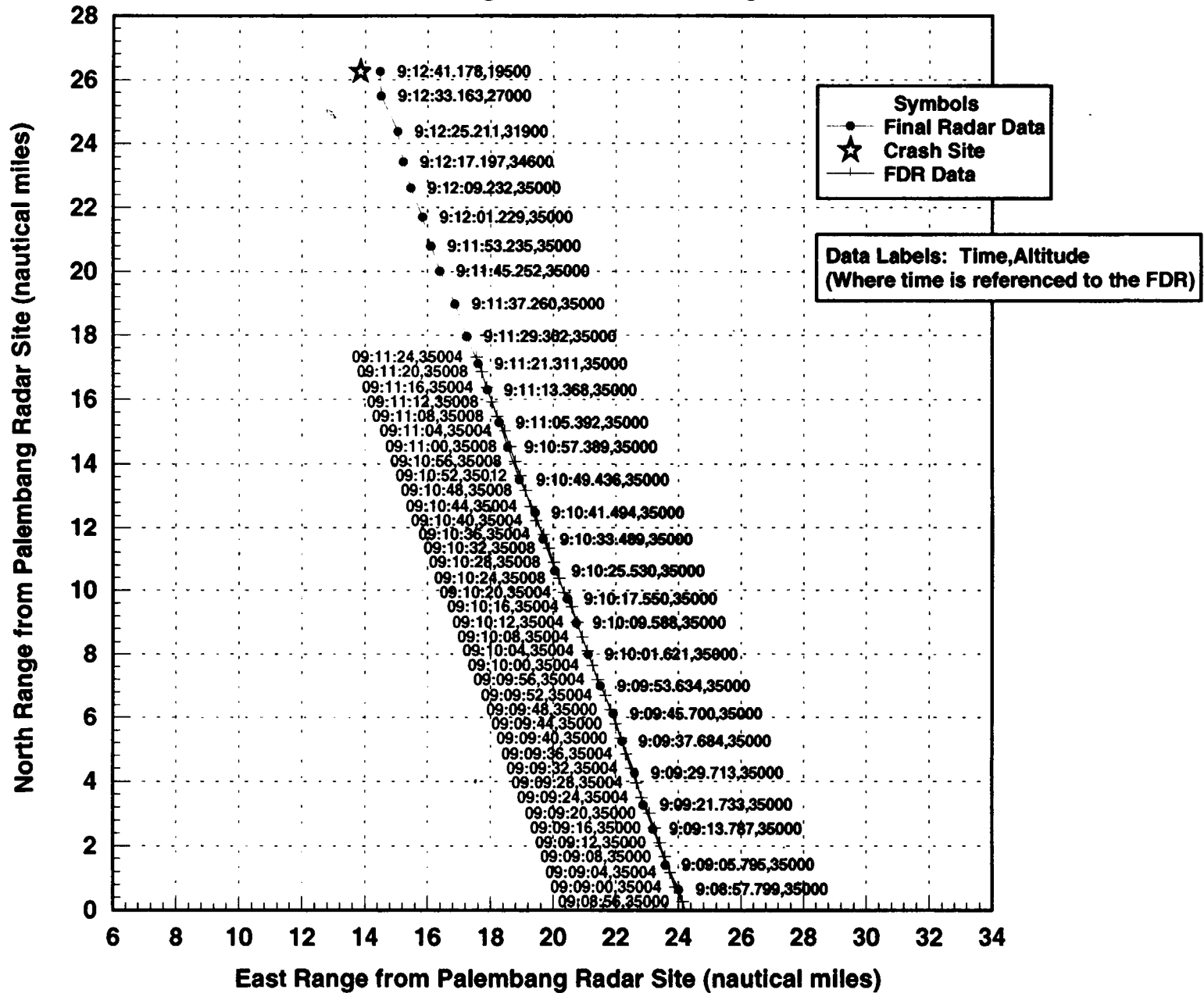
hh	mm	ss	E-W (nm)	N-S (nm)	Altitude	Description
9	11	13.368	18.2751	16.1207	35000	Box 12
9	11	13.368	18.0284	15.9031	35000	Box 12
9	11	13.368	17.5487	16.4309	35000	Box 12
9	11	13.368	17.7888	16.6558	35000	Box 12
9	11	13.368	18.2751	16.1207	35000	Box 12
9	11	21.311	17.9786	16.9472	35000	Box 11
9	11	21.311	17.7395	16.7218	35000	Box 11
9	11	21.311	17.2356	17.2407	35000	Box 11
9	11	21.311	17.4679	17.4731	35000	Box 11
9	11	21.311	17.9786	16.9472	35000	Box 11
9	11	29.302	17.6324	17.8018	35000	Box 10
9	11	29.302	17.4013	17.5684	35000	Box 10
9	11	29.302	16.8725	18.0769	35000	Box 10
9	11	29.302	17.0966	18.317	35000	Box 10
9	11	29.302	17.6324	17.8018	35000	Box 10
9	11	37.26	17.2746	18.8369	35000	Box 9
9	11	37.26	17.0528	18.5951	35000	Box 9
9	11	37.26	16.4937	19.0928	35000	Box 9
9	11	37.26	16.7082	19.3411	35000	Box 9
9	11	37.26	17.2746	18.8369	35000	Box 9
9	11	45.251	16.7935	19.8853	35000	Box 8
9	11	45.251	16.582	19.6348	35000	Box 8
9	11	45.251	15.9922	20.1181	35000	Box 8
9	11	45.251	16.1962	20.3747	35000	Box 8
9	11	45.251	16.7935	19.8853	35000	Box 8
9	11	53.235	16.5245	20.6655	35000	Box 7
9	11	53.235	16.3199	20.4097	35000	Box 7
9	11	53.235	15.7072	20.8849	35000	Box 7
9	11	53.235	15.9041	21.1467	35000	Box 7
9	11	53.235	16.5245	20.6655	35000	Box 7
9	12	1.229	16.2712	21.5719	35000	Box 6
9	12	1.229	16.0742	21.3106	35000	Box 6
9	12	1.229	15.4349	21.7781	35000	Box 6
9	12	1.229	15.6241	22.0451	35000	Box 6
9	12	1.229	16.2712	21.5719	35000	Box 6
9	12	9.231	15.895	22.4907	35000	Box 5
9	12	9.231	15.7063	22.2236	35000	Box 5
9	12	9.231	15.0401	22.6798	35000	Box 5
9	12	9.231	15.2208	22.9523	35000	Box 5
9	12	9.231	15.895	22.4907	35000	Box 5

hh	mm	ss	E-W (nm)	N-S (nm)	Altitude	Description
9	12	17.197	15.6696	23.3258	34600	Box 4
9	12	17.197	15.4875	23.0547	34600	Box 4
9	12	17.197	14.7967	23.504	34600	Box 4
9	12	17.197	14.9707	23.7803	34600	Box 4
9	12	17.197	15.6696	23.3258	34600	Box 4
9	12	25.211	15.5026	24.2773	31900	Box 3
9	12	25.211	15.3275	24.0031	31900	Box 3
9	12	25.211	14.6086	24.4472	31900	Box 3
9	12	25.211	14.7755	24.7265	31900	Box 3
9	12	25.211	15.5026	24.2773	31900	Box 3
9	12	33.163	14.988	25.3986	27000	Box 2
9	12	33.163	14.8236	25.1199	27000	Box 2
9	12	33.163	14.0718	25.5486	27000	Box 2
9	12	33.163	14.228	25.8321	27000	Box 2
9	12	33.163	14.988	25.3986	27000	Box 2
9	12	41.178	14.9619	26.1634	19500	Box 1
9	12	41.178	14.8021	25.8841	19500	Box 1
9	12	41.178	14.0277	26.3118	19500	Box 1
9	12	41.178	14.1791	26.5958	19500	Box 1
9	12	41.178	14.9619	26.1634	19500	Box 1

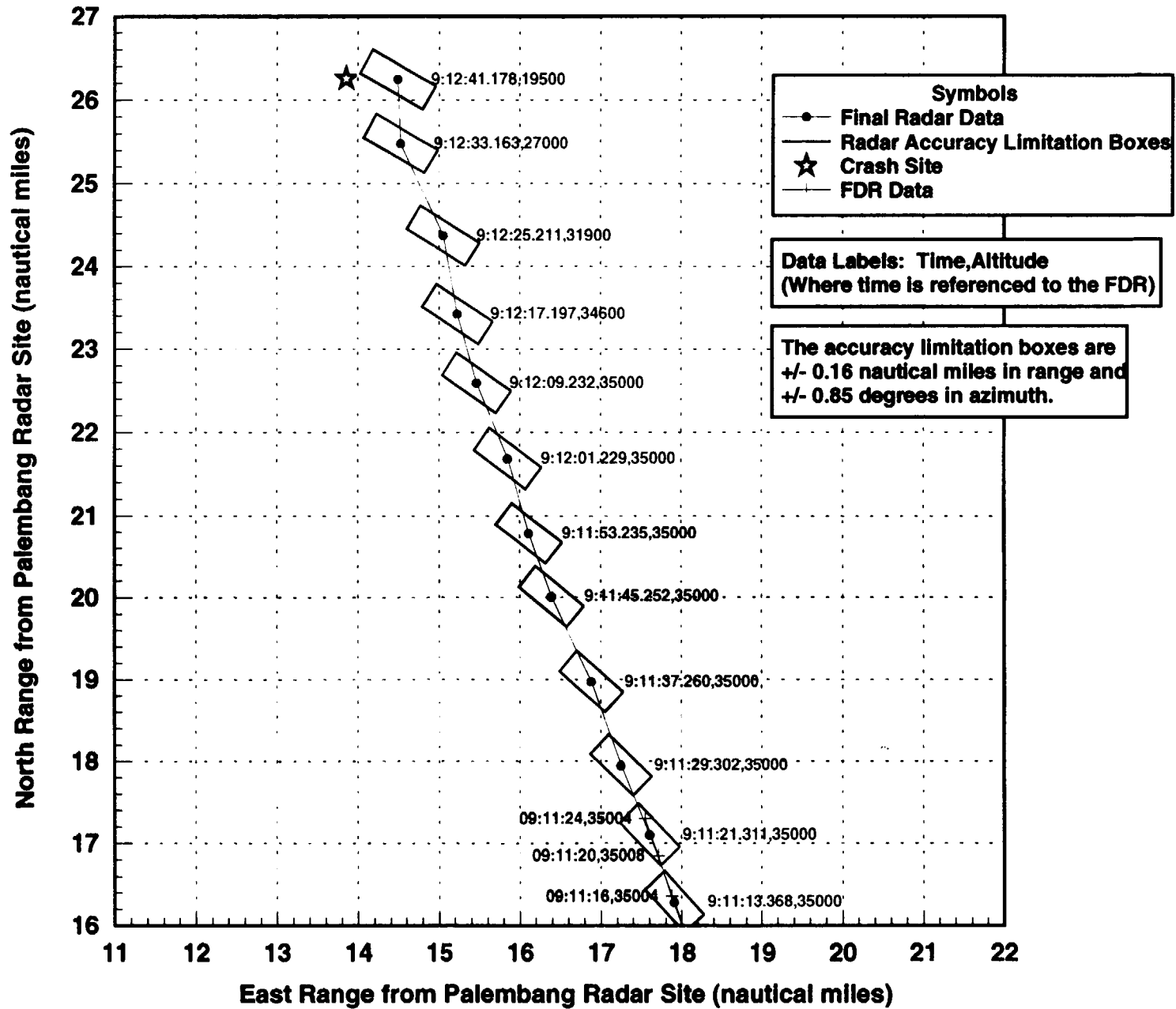
Attachments IX - Final Graphical Plots

FINAL RADAR DATA

North Range versus East Range



FINAL RADAR DATA North Range versus East Range



2-IX

FINAL RADAR DATA

North Range versus East Range versus Altitude

IX-3

