

PAPER RECORDS

	Bates	pgs	Cover letter Description	Ordered Disclosed
Cover letter	1-2	2		
ONE	4-7	4	NTSB Record 6 — 4 pages including graph and chart depicting the lift coefficient of Boeing Model 747 aircraft; graph and chart depicting pitching moment coefficient of Boeing Model 747 aircraft	Yes
TWO	9-17	9	NTSB Record 8 — 3 graphs and 2 charts depicting the lift coefficient, pitching moment coefficient, and the drag coefficient of Boeing Model 747 aircraft	Yes
THREE			<u>NTSB Record 15</u> - computer program written by NTSB staff to simulate the flight path of aircraft is included on the CD. A memo describing the simulation also is included.	
FOUR	19-33	15	NTSB Record 27 — 15 pages from table tracking the location in the ocean of debris from TWA flight 800. Please note that although the Court allowed the agency to withhold the information contained in the “Comments” column [sic] and the handwritten notes, the agency has chosen to make a discretionary release of this information.	Yes
FIVE	35-43	9	NTSB Record 33 —9 pages of charts of segments of radar data	Yes
SIX	45-73	29	NTSB Record 34 —29 graphic representations of FAA radar data for TWA flight 800	Yes

SEVEN	75-84	10	NTSB Record 35 — 10 graphic representations of NTSB TWA flight 800 Main Wreckage Simulation	Yes
EIGHT	86-147	62	NTSB Record 36 —62 pages of charts of segments of radar data	Yes

ELECTRONIC RECORDS

	Cover letter Description	Disclosed
BALLISTIC	Also enclosed are the software programs entitled, “Ballistic”... The enclosed contains executable files for both Ballistic... no source code, however, exists for the version of Ballistic that the Safety Board used during the TWA 800 investigation.	6/13/08 disk to be read – unknown whether disclosed
BREAKUP	Also enclosed are the software programs entitled... “Breakup.” The enclosed disk contains executable files for... Breakups [sic] and input files used for these programs for the flight path study of TWA 800. The disk also contains the source code for Breakup... that the Safety Board used during the TWA 800 investigation.	6/13/08 disk to be read – unknown whether disclosed

<p>"NTSB COMPUTER PROGRAM WRITTEN BY NTSB STAFF TO SIMULATE THE FLIGHT OF THE AIRCRAFT"</p>	<p><u>NTSB Record 15</u> - computer program written by NTSB staff to simulate the flight path of aircraft is included on the CD. A memo describing the simulation also is included.</p>	<p>6/13/08 disk to be read – unknown whether disclosed</p> <p><i>See Order Docket # 113 reprinted below</i></p>
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Order

Oct 4, 2006

Docket # 113 at 32-33

Vol V at 1194-1195 Bates 1193-1194 below

Pages 32-33:

Finally, Defendants describe Plaintiff's Record 70²⁸ as a "[c]omputer program written by NTSB staff to simulate the flight path of aircraft." *Moye Decl.* at p.416. It is undated and found in electronic form only.²⁸ Defendants withheld this program in full under Exemption 4 because it incorporated engine thrust and draft, lift and pitching moment coefficient data provided by Boeing. *Id.* at p. 419. The program apparently cannot operate without this data; as such, Defendants claim it is not segregable. *Id.* Plaintiff challenges Defendants' withholding of this record.

As they did in the Second CIA Motion, Defendants argue that, under the *National Parks* test, release of this information likely would impair the government's ability to obtain comparable information in the future, and that the disclosure of this information would cause Boeing substantial competitive harm. Defendants rely primarily on the Affidavits and Declarations of Richard S. Breuhaus (Chief Engineer of Air Investigation Safety for Boeing) as well as the Declarations of Melba Moye (Chief of the NTSB's FOIA branch) and its attached *Vaughn* index record descriptions, the Declarations of Terry N. Buroker (the CIA's Information Review Officer, in the Directorate of Intelligence) and the Declarations of Dennis Crider (the NTSB engineer intimately involved in the Flight 800 investigation). The Court discussed several of these materials, such as the Breuhaus Declarations and the First Buroker Declaration, in its previous order, along with the September 8, 2005 Hoffstadt Affidavit, on which Plaintiff relies. *See* F.Supp. 2d , 2006 WL 2789870 at *17-19. The declarations and affidavits the Court previously considered Contain information that overlaps the additional declarations and affidavits described

²⁸ Plaintiffs Record 70 is also identified as NTSB Record 15. This record also contains contested redactions under Exemption 5 which are addressed in the next section of this Order.

²⁸ In response to the Court's order for *in camera* submission of the NTSB records, Defendants submitted "five pages of the main-body simulation executable," which they state are "representative of Record 15." This printout appears to consist of data matrices in binary code and would undoubtedly be incomprehensible to anyone lacking computer, technical or scientific expertise.

just above. In fact, some of the testimony is repeated word-for-word from one declaration to another. For the reasons set forth in the previous Summary Judgment Order Id., the Court finds that there is a factual dispute as to whether Boeing will suffer substantial competitive harm and Defendants have not proffered evidence sufficient to meet their burden to show that release of this information likely would impair the government's ability to obtain comparable necessary information in the future. Therefore, the Court DENIES summary judgment concerning the contested uses of Exemption 4 in each of these ten records.

Order

Oct 4, 2006

Docket # 113 at 39-43

Vol V at 1200-1204

Pages 39-43:

vi. Plaintiff's Record 70

Plaintiff's Record 70, (NTSB Record 15) also discussed above, is a computer program written to simulate the flight path of Flight 800, and available only in

electronic form. Moyer Decl., at p. 416. This program was withheld in full based upon the deliberative process privilege.

Dennis Crider, an NTSB employee, developed a flight simulation software program prior to joining the NTSB. *Crider Decl.*, at ¶ 9; *Moyer Decl.*, at 416. While at the NTSB, Crider further developed and used the simulation program in several accident investigations, including that of Flight 800. *Crider Decl.*, at ¶ 9; *Moyer Decl.*, at p. 416.

There is no standardization for simulation code, and the program was never intended for public use, so it was written in a format intuitive to Crider.³² *Crider Decl.*, at ¶ 8. At the time of the Flight 800 investigation, there were no instructions or guides for using the program except for limited comments written by Crider. *Id.* (Defendants do not explain the comments.) The program itself uses mathematical models³³ that describe the forces acting on the specific aircraft type at issue to derive the motion resulting from these forces. *Id.* The mathematical formulations necessary for the simulation program are written in computer code, and according to Crider are not segregable. *Id.*

One of Crider's assignments during the investigation of Flight 800 was to determine the flight path of the aircraft after it lost its forward fuselage. *Moyer Decl.*, at p. 416. Crider modified his program for this task. *Crider Decl.*, at ¶ 19; *Moyer Decl.*, at p. 416. NTSB management reviewed and commented on his work after the initial simulation was complete. *Crider Decl.*, at ¶ 19. Crider explained that, over time, he continued to exercise his own judgment in determining whether the program was operating as designed and whether it was representing and using data

³² This program is written in C++, with portions written in C. *Crider Decl.*, at ¶ 9

³³ Some of these mathematical models contain information the government claims is proprietary to Boeing. *Moyer Decl.*, at p. 417.

appropriately. He modified the program and the simulation as necessary, such as when new data became available. *Id.* at ¶ 20-21, 23-24.

To run a specific simulation, the program needs such information as the starting condition (airspeed, position, altitude, etc.), specific configuration the flight (such as flap setting and landing gear position), the aircraft's weight and center of gravity, and some basis for guiding the aircraft. *Crider Decl.*, at ¶¶ 11-12; *Moye Decl.*, at p. 418. The program may be adjusted and adapted to analyze differing versions of aerodynamic data and physical attributes of aircraft.³⁴ *Id.* at p. 421. The flight data recorder and radar data provided much of this information for Flight 800. *Id.* at p. 418.

Defendants claim this program was used to provide information the NTSB used in determining the probable cause of the crash of Flight 800 and the safety recommendations that followed. They claim that an understanding of the flight path following the separation of the plane's nose was expected to aid the NTSB in understanding the causes of the crash. *Id.* at pp. 421-22. Defendants argue that Crider used the program to pursue different possibilities related to the flight path of Flight 800. *Id.* at p. 422. Crider considers his simulation to be a tool to do so. *Supp. Crider Decl.*, at ¶ 5. The source code of the simulation used by Crider is no longer available, as it has been updated and improved over time. *Id.* at ¶ 5. Therefore, the only "simulation software" maintained as a record is the executable file, which consists of binary machine language (Os and 1s).³⁵ *Id.*

Crider explains that, over time, he would run simulations using his program and the data inputs would be changed between each run to attempt to make the

³⁴ Even so, though, the record at issue is simply a fixed iteration consisting of the program at a certain time, *not* a series of programs that might reveal how they changed as Crider refined them.

³⁵ Crider did retain the last control system source file and aerodynamics source file specific to Flight 800. *Supp. Crider Decl.* at ¶ 6. However, these do not appear to be a part of Plaintiff Record 70, but rather two separate responsive records.

simulation results “best represent the action of the aircraft as reflected by the radar data.” *Id.* at ¶¶ 8-9. Crider claims this is a “deliberative, analytical process in which staff must be free to adjust and experiment without fear that staff work at whatever stage will be released and compared to the Safety Board’s ultimate conclusions....” *Id.* at 10.

Plaintiff does not challenge that this record is predecisional, and the Court finds that it is. However, the Court does not agree with Defendants that Content of the simulation program, as opposed to that of the input or output files, is deliberative.

First, although Crider clearly utilized some judgment in selecting “relevant” data he needed for his simulation program, *see Crider Decl.*, at ¶¶ 18, 23-24, the selection of some data from a larger set does not, alone, amount to a deliberative process under Exemption 5. *See First Summary Judgment Order*, ___F. Supp. 2d___, 2006 WL 2789870 at * 14, 23. Instead, the government must show that the deliberative process can be determined from the selection of the data alone. *Carter v. United States Dep’t of Commerce*, 307 F.3d 1084, 1091 (9th Cir. 2002). Defendants present no evidence to this end.

Second, Crider explains that he “performed all of the calculations and made all of the necessary adjustments to the computer program to simulate the flight path of TWA flight 800 for the NTSB.” *Crider Decl.*, at ¶¶ 19, 24. Although Crider may have used his “engineering knowledge and professional judgment” in making these decisions, *see Id.* at ¶ 20, there is no evidence that, by reviewing the disclosed source file, a reader would be able to understand or reconstruct the NTSB’s deliberative process. *See Assembly*, 968 F.2d at 922-23.

Finally, Crider states that management reviewed and commented on his work after the initial simulation was completed. *See Crider Decl.*, at ¶ 19. However, there is no allegation, much less evidence, that disclosure of this program would disclose the content of that review and content. Indeed, generally speaking, Crider does not claim that the disclosure of the program would “expose an agency’s decisionmaking

process in such a way as to discourage candid discussion within the agency and thereby undermine the agency's ability to perform its functions."³⁶ *See Assembly*, 968 F.2d at 921 (quotation omitted). His simulation program was merely a tool used in connection with other data to derive a result based upon that data. Defendants have failed to carry their burden that what has been withheld "represent[ed] the mental processes of the agency in considering alternative courses of action prior to settling on a final plan." *Nat'l Wildlife Fed'n*, 861 F.2d at 1122. Therefore, I DENY Defendants' use of Exemption 5 and the deliberative process privilege to withhold this record.

III. Conclusion

For the foregoing reasons, the Court GRANTS summary judgment as to Plaintiff's Records 9, 23, 27 (in part), 28 (in part), 43 and 74 (in part). For Records 27 and 28, Defendants shall produce the title, date, bolded sub-titles and (in the case of Record 28) Figure 1 and the Appendix. For Record 74, Defendants shall produce everything but the "Comments" column and the handwritten notes. The Court DENIES Defendants' summary judgment motions as to all the other disputed Records.

³⁶ Conversely, Crider does make such a claim concerning the release of the input and output files-used in connection to this simulation program. *Supp. Crider Decl.*, at ¶ 10.



National Transportation Safety Board

Washington, D.C. 20594

June 13, 2008

Captain H. Ray Lahr, USN (ret.)
18254 Coastline Drive
Malibu, California 90265-5704

Re: *Lahr v. National Transportation Safety Board (NTSB), et al.*, CV 03-8023-AHM (RZx), U.S.D.C. for CA
Freedom of Information Act (FOIA) Release of Records
NTSB Accident No.: DCA96MA070 (TWA flight 800)

Dear Captain Lahr:

Pursuant to the Honorable A. Howard Matz's opinions dated August 31 and October 4, 2006, and the Judgment of the Court dated October 17, 2006, the Safety Board includes with this letter the agency records that the Court ordered the Board to produce. The Safety Board searched for and produces these records in response to your requests under the FOIA in which you sought, "the NTSB's zoom-climb data and calculations in order to validate or invalidate the NTSB's and CIA's zoom-climb¹ conclusions."

Specifically, the Safety Board is producing the following records:

NTSB Record 6 – 4 pages including graph and chart depicting the lift coefficient of Boeing Model 747 aircraft; graph and chart depicting pitching moment coefficient of Boeing Model 747 aircraft

NTSB Record 8 – 3 graphs and 2 charts depicting the lift coefficient, pitching moment coefficient, and the drag coefficient of Boeing Model 747 aircraft

NTSB Record 15 - computer program written by NTSB staff to simulate the flight path of aircraft is included on the CD. A memo describing the simulation also is included.

NTSB Record 27 – 15 pages from table tracking the location in the ocean of debris from TWA flight 800. Please note that although the Court allowed the agency to withhold the

¹ In your October 8, 2003 letter, you describe the "zoom-climbs" as "the aircraft's (sic) continuing to fly after the nose of TWA 800 was blown off, climbing as much as 3,200 feet."

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information contained in the "Comments" column and the handwritten notes, the agency has chosen to make a discretionary release of this information.

NTSB Record 33 – 9 pages of charts of segments of radar data

NTSB Record 34 – 29 graphic representations of FAA radar data for TWA flight 800

NTSB Record 35 – 10 graphic representations of NTSB TWA flight 800 Main Wreckage Simulation

NTSB Record 36 – 62 pages of charts of segments of radar data

Also enclosed are the software programs entitled, "Ballistic" and "Breakup." The enclosed disk contains executable files for both Ballistic and Breakup, and input files used for these programs for the flight path study of TWA 800. The disk also contains the source code for Breakup; no source code, however, exists for the version of Ballistic that the Safety Board used during the TWA 800 investigation.

The Safety Board's Office of General Counsel has informed me that because these records are being produced in accordance with a court order, to the extent I have denied your FOIA request, you may address my decision in your litigation.

Sincerely,



Melba D. Moyer
FOIA Officer

Enclosures
cc: GC-1 (Silbaugh)

000002

NTSB COVER LETTER DESCRIPTIONS

ONE

NTSB Record 6

— 4 pages including graph and chart depicting the lift coefficient of Boeing Model 747 aircraft; graph and chart depicting pitching moment coefficient of Boeing Model 747 aircraft

SIMULATION PROGRAM

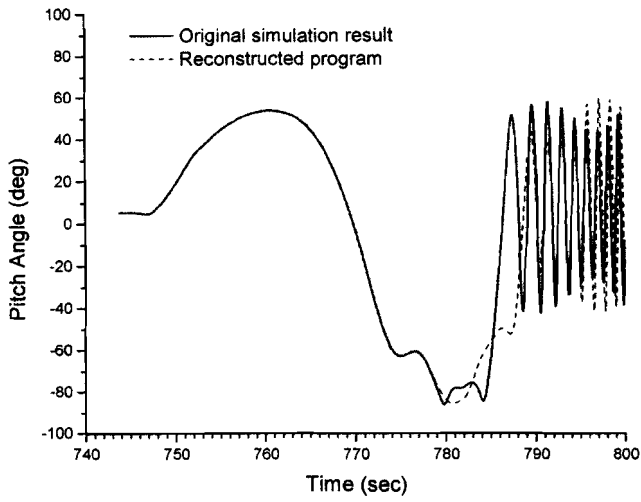
Although the Freedom of Information Act (FOIA) does not require an explanation of a record produced, the National Transportation Safety Board (NTSB) has chosen to provide a brief description of the simulation program that is being produced pursuant to Judge A. Howard Matz's opinion and subsequent order in *Lahr v. NTSB, et al.*, CV 03-8023-AHM (RZx), U.S.D.C. for CA (2003).

As the Safety Board stated throughout the litigation, this simulation program was used for investigations prior to, and after, the TWA 800 investigation. Thus, the code has evolved over time, and no longer exists in the form used for the TWA 800 investigation. Further, throughout the investigation, the aerodynamic source code was changed to investigate variable failure modes and there was no code that could be pointed to as the definitive TWA 800 simulation program. However, only one version of TWA 800 unique aerodynamic source code, a component of the simulation program, was located. Therefore, it is not possible for the Safety Board to produce the exact code used for the TWA 800 reports.

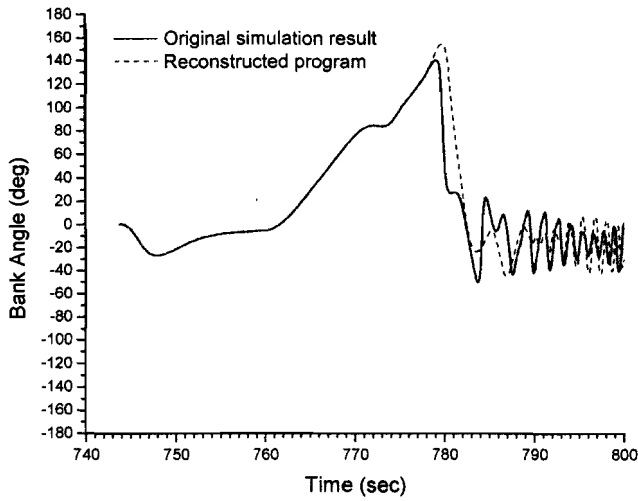
Nonetheless, the Safety Board took steps to comply with the Judge's order to provide an executable program. To reconstruct the code, the Safety Board located versions of source code from the TWA 800 time period. The source files were edited so they would compile and link together (these edits are commented in the source code). As a part of this process, calls to the non-responsive, non-relevant code for other airplanes were eliminated. The Safety Board reconstructed a set of source code that when compiled and linked with the identified TWA 800 aerodynamic, engine and mechanical controls source code, produces an executable program.

The Safety Board ran the reconstructed executable with a set of input files used during the time period of the drafting of the Addendum II to Main Wreckage Flight Path Study. The results were plotted against simulation results from June 2000 that we believe were imported into Addendum II. The reconstructed code duplicated the results from the June 2000 simulation output until the time of the outboard wing panel failure. The plots comparison plots are included below.

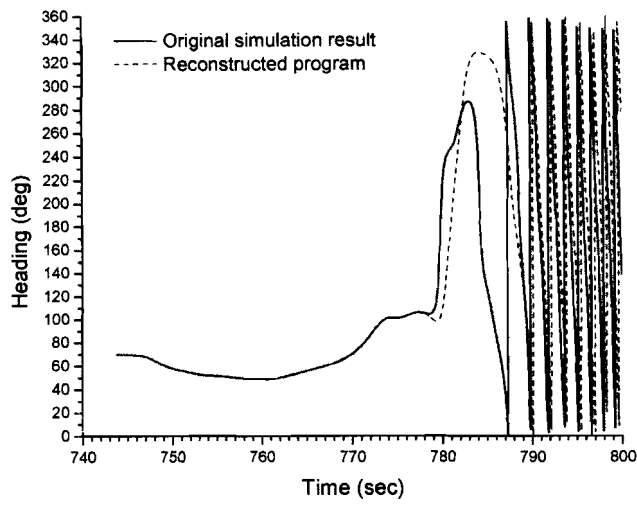
TWA 800
Main Wreckage Simulation



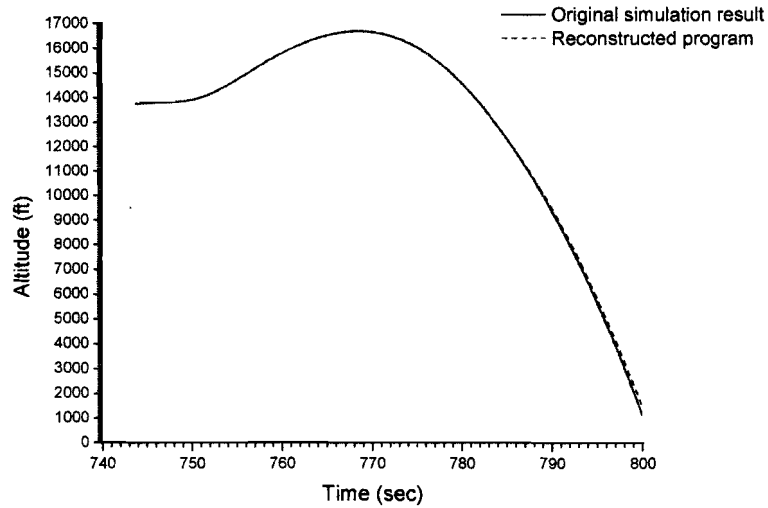
TWA 800
Main Wreckage Simulation



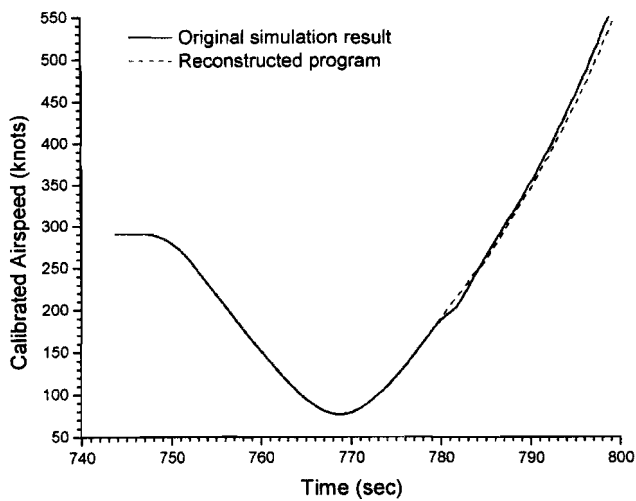
TWA 800
Main Wreckage Simulation



TWA 800
Main Wreckage Simulation



TWA 800
Main Wreckage Simulation



As seen in the plots above, the reconstructed code could not reproduce the flight path from the Addendum II to Main Wreckage Flight Path Study past the time of the outboard wing panel failure. This indicates that the preserved version of the TWA 800 aerodynamic code was edited for further iterations after the simulation runs used in Addendum II.

All of the source code contains include statements that bring in external header files to the source files when they are compiled. While some of these header files are standard C/C++ headers, others define data structures that are used to communicate between the modules. Data structure header files from the time of the TWA 800 investigation were found and the include statements in each source file replaced with includes pointing to these older header files.

PRODUCTIONS OF 2 AND 3 APPEAR IN ORDER NTSB PRODUCED

TWO

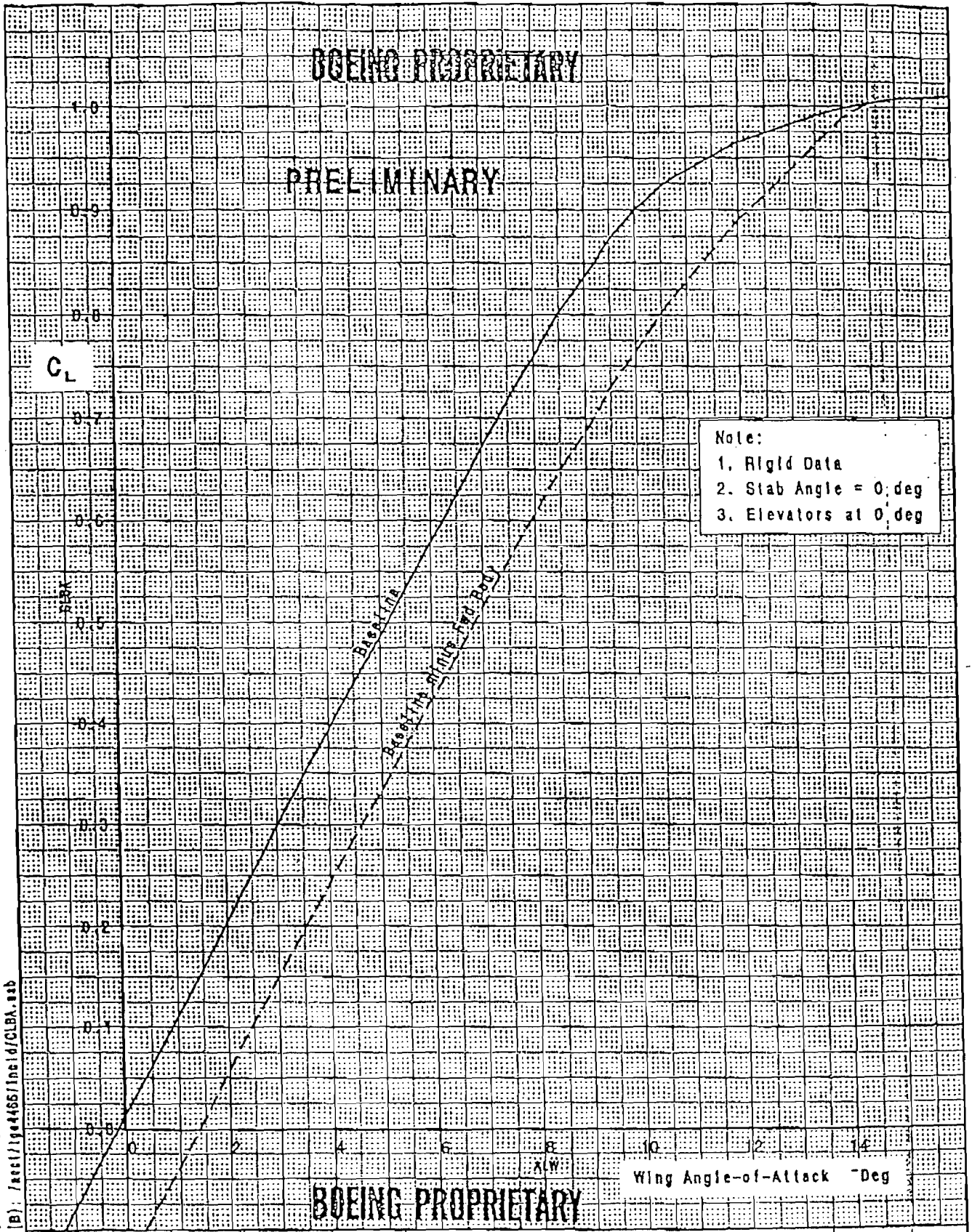
NTSB Record 8

— 3 graphs and 2 charts depicting the lift coefficient, pitching moment coefficient, and the drag coefficient of Boeing Model 747 aircraft

THREE

NTSB Record 15

- computer program written by NTSB staff to simulate the flight path of aircraft is included on the CD. A memo describing the simulation also is included.



Note:
 1. Rigid Data
 2. Stab Angle = 0 deg
 3. Elevators at 0 deg

(A) : /root/1994465/inc/d/line_delta1cm.esh
 (B) : /root/1994465/inc/d/CLBA.ash

BOEING PROPRIETARY

CALC	Ovation	24Mar97	REVISED	DATE	Lift Coefficient Effect of Loss of Forward Body Flaps and Gear Up Mach = .6	747-400
CHECK						
APPD.					BOEING	PAGE
APPD.						

BOEING PROPRIETARY

PRELIMINARY

(A) : /x001/1904485/hold/final_delta1cm.asb
(B) : /x001/1904485/hold/CBBA.asb

Note:
1. Rigid Data
2. Stab Angle = 0 deg
3. Elevators at 0 deg

Wing Angle-
of-Attack
"Deg

Pitching Moment Coefficient

C_M .25c

BOEING PROPRIETARY

CALC	Overton	24Mar97	REVISED	DATE	Pitching Moment Coefficient Effect of Loss of Forward Body Flaps and Gear Up Mach = .6	747-100
CHECK						
APPD.						
APPD.						
					BOEING	PAGE

BOEING PROPRIETARY PRELIMINARY

3/24/97

Baseline Configuration

Wing Angle- Lift Coeff.
of-Attack -
deg.

CLBA

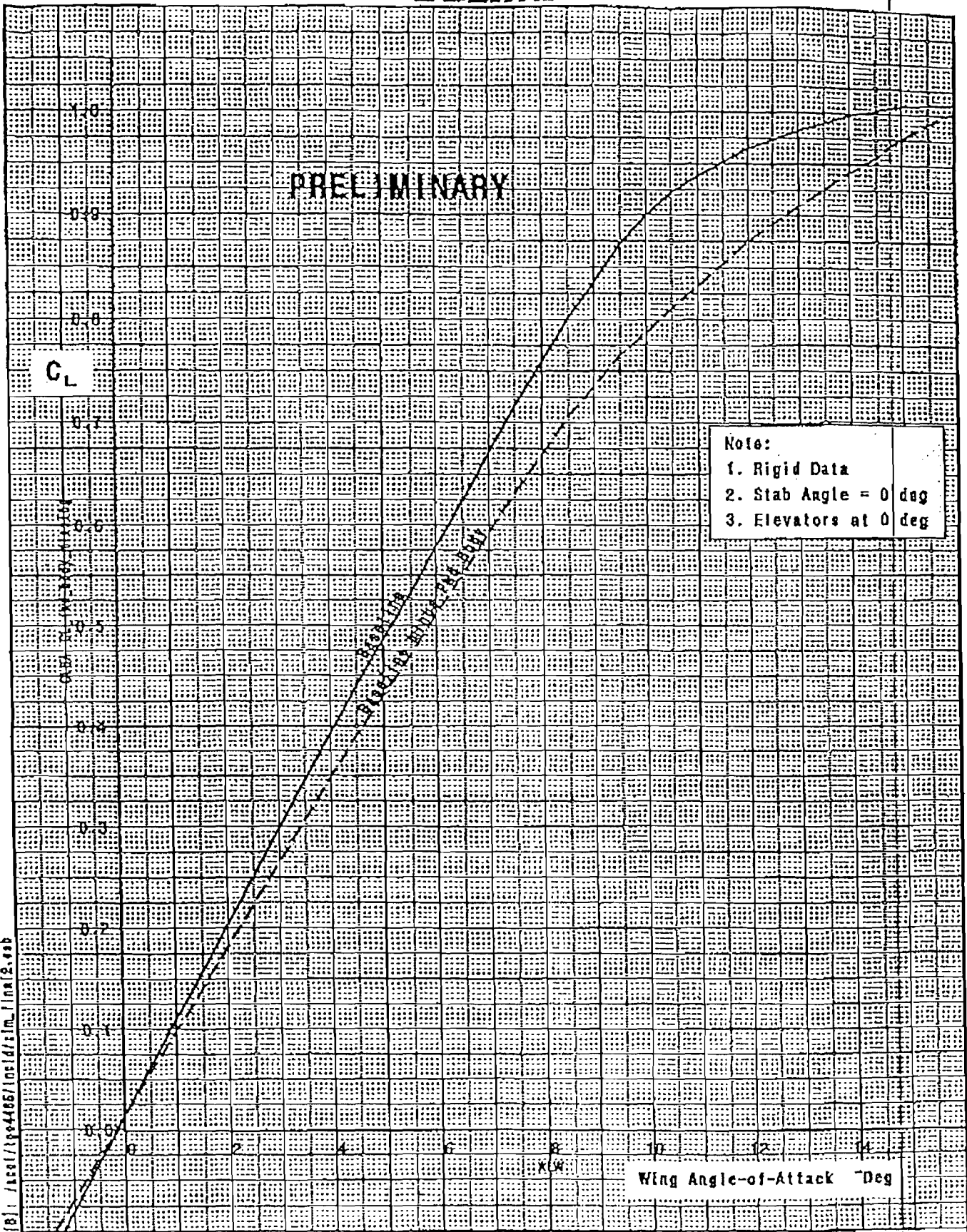
ALW	
-10	-0.931
0	0.0147
2	0.2038
4	0.393
5	0.486
6	0.579
6.5	0.624
7	0.671
7.5	0.716
8	0.759
8.5	0.802
9	0.836
9.5	0.872
10	0.9
10.5	0.922
11	0.938
12	0.965
13	0.982
14	0.998
15	1.008
17	1.015
19	1.038
25	1.118
30	1.185

Wing Angle- Pitching Moment
of-Attack -
deg. Coeff. About
25%MAC

ALW	CMBA
-10	0.367
0	0.087
1	0.058999
2	0.030999
3	0.0044994
4	-0.0215
5	-0.045
5.5	-0.056
5.8	-0.063
6	-0.067
6.2	-0.0715
6.5	-0.078
7	-0.088
7.5	-0.098
8	-0.1085
8.25	-0.113
8.5	-0.115
8.75	-0.115
9	-0.114
9.5	-0.1095
10	-0.103
10.5	-0.0966
11	-0.089
12	-0.087
13	-0.108
13.5	-0.124
14.5	-0.164
14	-0.143
15	-0.185
16	-0.231
17	-0.285
18	-0.351
20	-0.504
30	-1.231

BOEING PROPRIETARY

000012



(A) : /acel/lga4485/incld/CLBA.49b
 (B) : /acel/lga4485/incld/CLM/incld/CLBA.49b

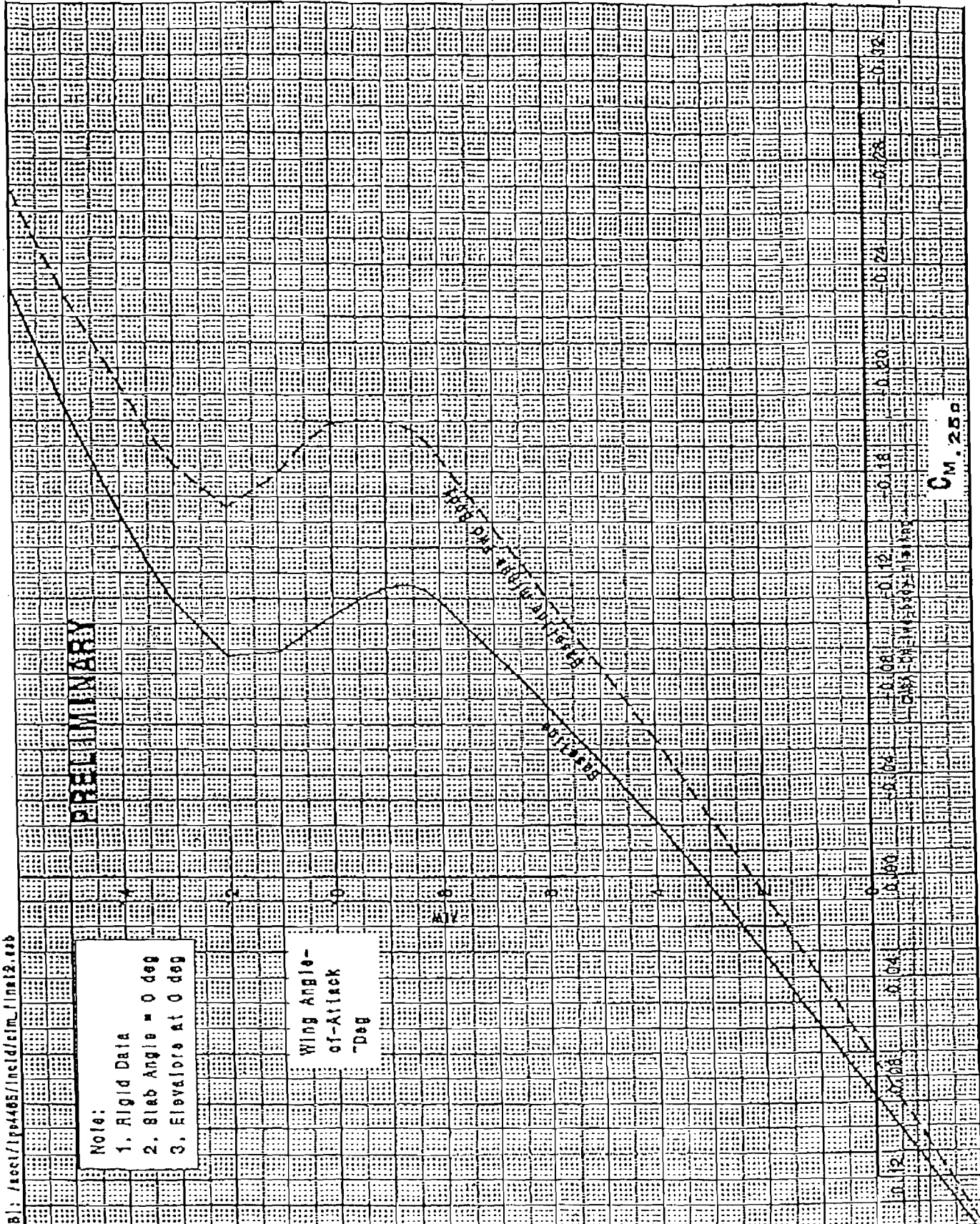
CALC	Overton	3Apr97	REVISED	DATE
CHECK				
APPD.				
APPD.				

Lift Coefficient
 Effect of Loss of Forward Body
 Flaps and Gear Up Mach = .6

BOEING PROPRIETARY

747-100

BOEING



[A]: J2001/1904465/Incl6/CSBA.eab
 [B]: J2001/1904465/Incl6/Incl2.eab

Note:
 1. Rigid Data
 2. Slab Angle = 0 deg
 3. Elevators at 0 deg

Wing Angle-
 of-Attack
 -Deg

CALC	Overton	4Apr07	REVISED	DATE
CRCK				
APPO				
APPO				

Pitching Moment Coefficient
 Effect of Loss of Forward Body
 Flaps And Gear Up Mach = .6

747-100

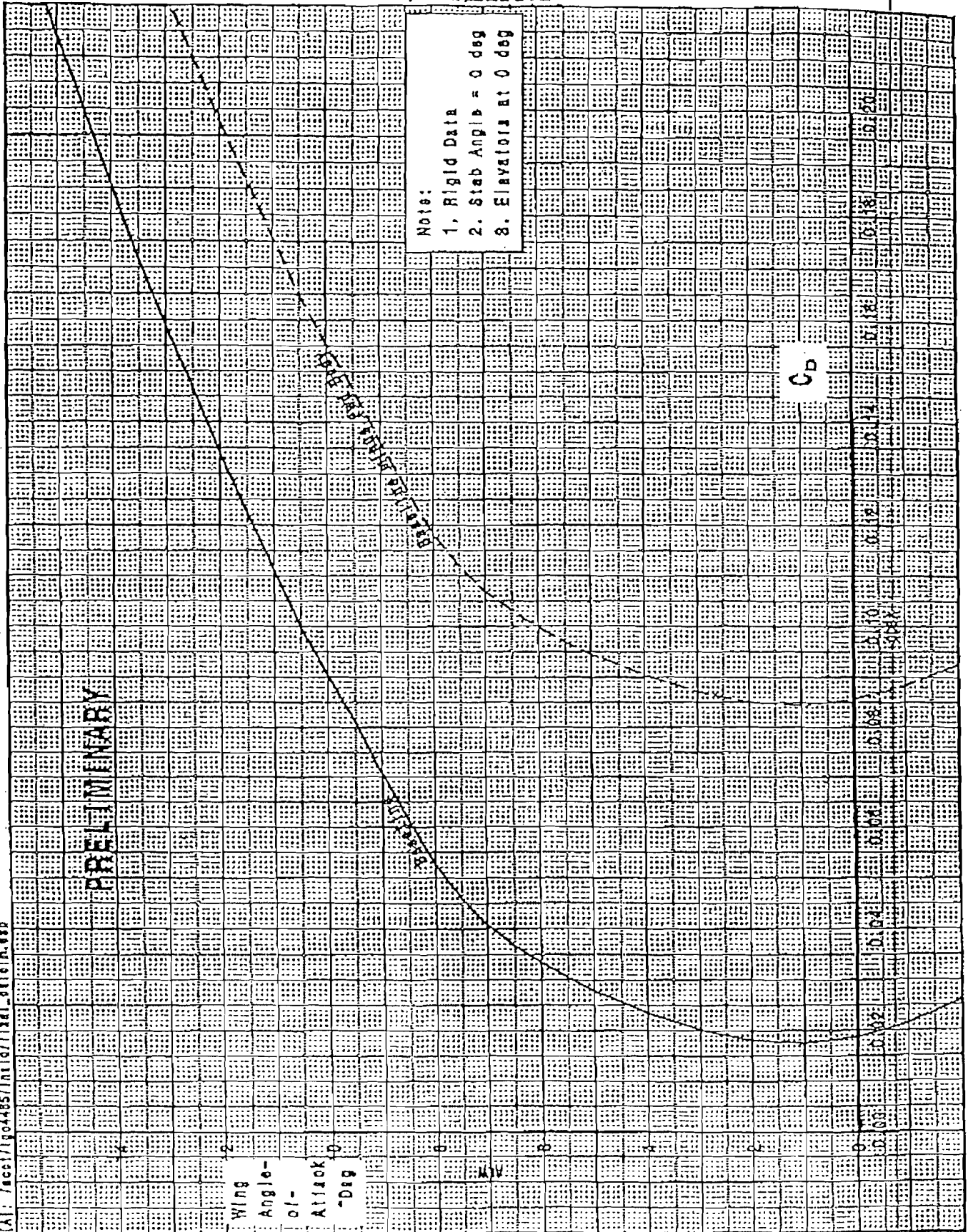
BOEING PROPRIETARY

276

000014

BOEING

(A) : facs://go4485/insid/llal_dsloln.080



CALC	Overten	3Apr97	REVISED	DATE
CHECK				
APPD.				
APPD.				

Drag Coefficient
 Effect of Loss of Forward Body
 Flaps and Gear Up Mach = .6

BOEING PROPRIETARY

747-100

BOEING PROPRIETARY
PRELIMINARY

4/4/97

Baseline minus Forward Body

Wing Angle- Drag Lift Pitching Moment
of-Attack Coeff. Coeff. Coeff. About
- deg. 25%MAC

ALW	CDFA	CLFA	CMFA
-10	0.198922	-0.820969	0.402749
-8	0.166493	-0.653834	0.336691
-7	0.150278	-0.570266	0.303662
-6	0.134063	-0.486699	0.270633
-5	0.122484	-0.403191	0.237605
-4	0.110905	-0.319563	0.204576
-3	0.101708	-0.235996	0.171547
-2	0.0925116	-0.152428	0.138518
-1	0.0881946	-0.0688605	0.105489
0	0.0855776	0.0147073	0.07246
1	0.0844177	0.098196	0.0399679
2	0.0850179	0.181685	0.00760186
3	0.0870951	0.265223	-0.0234525
4	0.0904463	0.348762	-0.0543554
5	0.0944376	0.430589	-0.0830046
5.5	0.0969306	0.471404	-0.0967404
5.8	0.0986298	0.495939	-0.105409
6	0.099888	0.512127	-0.110661
6.2	0.101058	0.527719	-0.116363
6.5	0.103091	0.551234	-0.12464
7	0.106968	0.592555	-0.13787
7.5	0.111886	0.631877	-0.151233
8	0.118311	0.669198	-0.165465
8.25	0.122624	0.687866	-0.17205
8.5	0.127069	0.706534	-0.176384
8.75	0.131578	0.720702	-0.178561
9	0.136086	0.73487	-0.179884
9.5	0.146403	0.765206	-0.179993
10	0.155433	0.787541	-0.179026
10.5	0.164854	0.810922	-0.171655
11	0.175724	0.832589	-0.159657
12	0.197921	0.875176	-0.145765
13	0.222423	0.9084	-0.16252
13.5	0.234669	0.924786	-0.176635
14	0.248416	0.941172	-0.193751
14.5	0.262084	0.956721	-0.21125
15	0.275753	0.975451	-0.229034
16	0.305034	1.00231	-0.270243
17	0.335717	1.015	-0.32236
18	0.365469	1.0265	-0.388934
19	0.39513	1.038	-0.466016
20	0.426815	1.05133	-0.543098
25	0.569988	1.118	-0.909754
30	0.71944	1.185	-1.27698

BOEING PROPRIETARY

FOUR

NTSB Record 27

— 15 pages from table tracking the location in the ocean of debris from TWA flight 800. Please note that although the Court allowed the agency to withhold the information contained in the “Comments” column and the handwritten notes, the agency has chosen to make a discretionary release of this information.

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a004 ✓	40 38 41.29	-72 39 15.25	FS 760-960 STR 22R-37R, p/n 6580173			0
a006 ✓	40 38 44.90	-72 39 15.49	#3 pos air cycle machine/heat exchanger w/ ducts, dual heat exchanger #3			0
a015 ✓	40 38 54.80	-72 39 09.90	galley C structure			0
a018 ✓	40 38 38.54	-72 39 08.77	CW front spar RBL 66-LBL 28, (8x6 frame # 65B1029858 front spare BLO)		lat long matches target database (phil 9/27/96)	0
a021 ✓	^{was 40 38 44.70} 40 38 44.94	-72 39 08.97 ✓	wing front spar web, LBL 20-70		confirmed L/L from tgt # - DMR 10/4/96	0
a022 ✓	40 38 41.57	-72 39 07.30	FS 780-920 STR 23L-37L		confirmed L/L from tgt # - DMR 10/4/96	0
a027 ✓	40 38 39.45	-72 39 15.00	2 coach seats # stenciled on frame 823566404		L/L changed slightly to reflect target location - DMR 10/4/96	0
a029 ✓	40 38 43.19 ✓	-72 39 19.80 ✓	forward lower cargo bay structure FS 900-960 LH CW w/ motor and wheels, p/n 747-5100-5-0		confirmed L/L from tgt # - DMR 10/4/96	0
a030 ✓	40 38 43.63	-72 38 28.78	2 seats, one red, one blue # row 11 seat 6		confirmed L/L from tgt # - DMR 10/4/96	0
a032 ✓	40 38 41.77	-72 39 06.83	hatch part # 65B10020-574, serial # 000160, manufacturer code 82918		L/L changed slightly to reflect target location - DMR 10/4/96	0
a033 ✓	40 38 39.55	-72 39 07.45	FS 800-840 STR 13R-16R with R2 door frame		L/L changed slightly to reflect target location - DMR 10/4/96	0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a040 ✓	40 38 30.23	-72 38 56.20	framing curved		L/L changed slightly to reflect target location - DMR 10/4/96	0
a042 ✓	40 38 42.10	-72 39 18.53	pipng/U shaped 8', # 65B4093-5-1, bleed air tubing, #3 pack ducting, forward end		L/L changed slightly to reflect target location - DMR 10/4/96	0
a055 ✓	40 38 35.96	-72 39 20.71	#2 ram air duct		description from divelog - JAC 12/03/96	0
a060 ✓	40 38 47.00	-72 39 13.40	seat 18 (4 5 6 7)			0
a070 ✓	40 38 41.77	-72 39 06.83	gear door, 65B10020-574,		Lat/long matches target database, no wreckage log (Phil 9/25/96)	0
a071 ✓	40 38 43.10	-72 39 19.80	FS 740-780 STR 15R-26R with R2 door attached, #5804951 7 on bottom inner door frame			0
a102 ✓	40 38 59.74	-72 39 02.41	2-1/2x3' piece of wreckage, 3 castor wheels		confirmed L/L from tgt # - DMR 10/4/96	0
a103 ✓	40 38 33.03	-72 38 52.61	2 small pieces of frame 1"x1"x3' (left leg to seats 17 (1 2 3)		L/L changed slightly to reflect target location - DMR 10/4/96	0
a104 ✓	40 38 42.70	-72 38 57.46	lighting strut, clothing		confirmed L/L from tgt # -DMR 10/4/96 NOTE seat tag does not exist in cabin hangar as of 10/18/96)	0
a109 ✓	40 38 37.29	-72 39 12.46	floor beam with seat track, FS 840-880, RBL 33.99		confirmed L/L from tgt # - DMR 10/4/96	0
a113 ✓	40 38 44.55	-72 39 11.93	chrome brazing		L/L changed by several seconds to reflect target location - DMR 10/4/96	0

000020

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a117 ✓	40 38 22.20	-72 38 42.70	2"x4' green frame		confirmed L/L from tgt # - DMR 10/4/96	0
a119 ✓	40 38 45.08	-72 39 08.48	wire plug DL9404		L/L changed slightly to reflect target location - DMR 10/4/96	0
a126 ✓	40 38 35.38	-72 38 08.94	fuselage FS 940-820 STR 6L-17L			0
a130 ✓	40 38 39.44	-72 38 16.82	p/n 863703 dispenser for head		L/L changed slightly to reflect target location - DMR 10/4/96	0
a131 ✓	40 38 31.09	-72 38 58.69	forward lower cargo bay structure FS 860-880 left hand cargo floor		L/L changed slightly to reflect target location - DMR 10/4/96	0
a133 ✓	40 38 29.19	-72 39 02.40	#1 heat exchanger ram air door		confirmed L/L from tgt # - DMR 10/4/96	0
a136 ✓	40 38 40.86	-72 38 45.07	L2 door 65B04425-411, escape door hatch, 65B15830 403# on the inner door by latch			0
a141 ✓	40 38 34.48	-72 39 00.37	FS 800-1000 STR 40L-40R with forward lower cargo bay structure w/rollers attached		confirmed L/L from tgt # - DMR 10/4/96	0
a147 ✓	40 38 48.80	-72 39 18.30	blower assembly w/ piping part # 1923, ACM #1; casting p/n 18488, ACM valve turbo bypass, p/n 719223-3 p9 747, 6CB00026-27 B A14694		L/L changed slightly to reflect target location - DMR 10/4/96	0
a154 ✓	40 38 33.79	-72 38 40.07	fair lead assembly 3'		no target #, confirmed wreckage Log L/L	0
a158 ✓	40 38 30.10	-72 38 51.96	seat 16 (10) seat with no back; red seat back w/ frame; fiberglass round dome 2 1/2' diameter		L/L changed slightly to reflect target location - DMR 10/5/96	0

000021

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a160 ✓	40 38 47.24	-72 39 20.58	flow control valve s/n SNKB5189-764476-2 P214-9, #3 pack		L/L changed slightly to reflect target location - DMR 10/5/96	0
a167 ✓	40 38 42.21	-72 38 50.28	seat track RBL 33-99 FS 800-840, clothing		L/L changed slightly to reflect target location - DMR 10/5/96	0
a169 ✓	40 38 37.71	-72 38 38.95	2.5x2.5 fiberglass w/PBE holder p/n 4566M37-B- 042NM s/n E955016			0
a172 ✓	40 38 34.34	-72 39 00.14	seat 17 (8 0) armrest; light alum framing; 2' and 3' long		confrimed L/L from target position in target database - DMR 10/5/96	0
a181 ✓	40 38 48.07	-72 38 35.95	FS 820-900, STR 14L-25L		moved latitude 5 seconds to the south to reflect the L/L for tgt # LLS177 in the tgt database - DMR 10/5/96	0
a182 ✓	40 38 31.07	-72 38 56.26	forward lower cargo bay structure FS 800 right hand side		L/L changed slightly to reflect target location - DMR 10/5/96	0
a183 ✓	40 38 31.07	-72 38 56.26	3 small pieces, 18" long assembly 65B41247-79		L/L changed slightly to reflect target location - DMR 10/5/96	0
a190 ✓	40 38 31.03	-72 38 59.00	fiberglass framing 3x3x3		L/L changed slightly to reflect target location - DMR 10/5/96	0
a2003	40 38 20.94	-72 38 28.49	FS 920 frame STR 17R-20R		SOURCE TAG CORRECTED FROM A525 TO A520	0
					NOT EXEMPT (POS. IS "BEST GUESS")	
a2031	40 38 21.75	-72 38 27.64	body crown fuselage		LOT# UPDATED PER 2000 SERIES AUDIT, CHANGED FROM B561 TO MATCH ACTUAL DEBRIS	0
					EXEMPT (OK TO USE)	
a2045			seat track RBL 11.33 FS 940-960		NO LOT#, CHANGED FROM RED TO WHT PER 2000 SERIES AUDIT NO LOT#, CHANGED FROM RED TO	-1
					WHITE (POS'n UNK.)	

position same as used, OK

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a209 ✓	40 38 35.92	-72 38 44.95	nose gear door/hatch p/n 65B10019-2, 3'x6'x4" thick, RH nose gear wheel well door/first 6', joins A152		L/L changed slightly to reflect target location - DMR 10/5/96	0
a210 ✓	40 38 32.43	-72 38 37.87	SWB #3, mid RH, p/n 65B10683 2		confrimed L/L from target position in target database - DMR 10/5/96	0
a212 ✓	40 38 21.82	-72 38 25.96	FS 940-1000 STR 9R-15R		confrimed L/L from target position in target database - DMR 10/5/96	0
a219 ✓	40 38 44.45	-72 38 56.32	food warmer box 8"x20"x14" plastic TWA 44-0842		confrimed L/L from target position in target database - DMR 10/5/96	0
a227 ✓	40 38 39.15	-72 38 52.96	SWB #3, RBL 23 to LBL 20, p/n 65B01110-19		confrimed L/L from target position in target database - DMR 10/6/96	0
a227 ✓	40 38 39.15	-72 38 52.96	SWB #3, RBL 23 to LBL 20, p/n 65B01110-19		confrimed L/L from target position in target database - DMR 10/6/96	0
a233 ✓	40 38 30.38	-72 39 04.30	alum strut 4' long, circular tubing 18" diam, rubber/plastic with metal strap, assembly 65341207-1			0
a236 ✓	40 38 45.26	-72 39 51.96	front spar RH web, LBL 75-115		confrimed L/L from target position in target database - DMR 10/6/96	0
a238 ✓	40 38 31.08	-72 39 05.10	SWB #3, front spar web, RBL 66-45			0
a239 ✓	40 38 30.60	-72 39 04.56	wire basket/ rubber coated 2"x2 1/2"x4"/6"x4" framing/ 2x1" strut			0
a242 ✓	40 38 12.43	-72 38 12.68	forward lower cargo bay structure FS 880 center line			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a249 ✓	40 39 09.49	-72 38 31.92	galley A kitchen/galley ovens, A6, A5a, A5b, A5c, A5d (3 pieces)	Debris field changed per FBI Lot# audit for out-of-area tags.	Lat/long verified with tgt and wreckage logs (phil 9/26/96)	-1
a251 ✓	40 38 30.38	-72 39 04.30	3 piece framing 1.5'x2.5'	→ TAC COLOR LOGS WYDIA, BUT POS' A OK.		0
a252 ✓	40 38 26.39	-72 38 34.66	FS 800-880 STR 36L-40L		Lat/long verified with tgt and wreckage logs (phil 9/26/96)	0
a254 ✓	40 38 27.14	-72 38 34.54	18" light braising, 1'x6" alum bulkhead			0
a260 ✓	40 38 31.20	-72 39 04.68	FS 980 lower frame STR 40L-42R			0
a265 ✓	40 38 50.28	-72 39 02.17	fuse box galley complete 6'x3"x2", galley B and C			0
a268 ✓	40 38 11.33	-72 37 31.77	FS 880-900 STR 1R-3R RH side 1'x1' fuselage crown skin/6"x2"x2" alum strut,		Lat/long on wreckage log matches Target # 40 in tgt databse (Phil 9/20/96)	0
a269 ✓	40 38 22.70	-72 38 33.40	exit sign w/ electronics, spring hinged arm, 4" 1/4" tubing			0
a272 ✓	40 38 28.51	-72 38 16.55	overhead flood light manufacturer p/n 30-0418-5/TWA 291-0191		longitude on wreckage log differs from target by 9.15" - JAC 12/03/96	0
a401 ✓	40 38 27.90	-72 38 45.31	12" green metal strut, 6"x2" yellow plastic w/black clip 162-1013-3		target longitude differs from wreckage by 8.03" - JAC 12/03/96	0
a404 ✓	40 38 46.79	-72 39 25.61	forward lower cargo bay structure FS 800-840 LH CW w/ motor and wheels (cargo floor 4'x3'x2', ac motor w/ brake p/n 747-5826-1-0, s/n 5475)			0

000024

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
✓ a405	40 38 42.99	-72 39 29.48	4x6"x2" strut			0
✓ a413	40 38 59.90	-72 39 01.20	3x2' molded metal			0
✓ a421	40 37 54.37	-72 38 53.54	right side fuselage with 4 windows FS 860-940 STR 19R-25R		Lat/long Tgt and WL agree (phil + jim 10/17/96); This piece was cut, the section with 4 windows retains the tag	0
a423 ✓	40 38 23.70	-72 38 37.30	4x1' framing and wire harness			0
a424 ✓	40 38 22.55	-72 38 34.25	FS 880-948 STR 2AR			0
a426 ✓	40 38 27.97	-72 38 29.96	upper part of galley B		(FBI # 8 14 96-11) Has a source tag of A425 (phil 11/2/96)	0
a430a ✓	40 38 28.17	-72 38 49.64	frame #L220			0
a441 ✓	40 38 55.26	-72 39 19.08	projector			0
a444 ✓	40 38 36.99	-72 39 22.38	roller on track			0
a445 ✓	40 38 36.39	-72 39 19.99	insulated tubing 1120363320			0
a446 ✓	40 38 27.71	-72 38 48.87	3' bent metal # 86-4040			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a447 ✓	40 38 27.21	-72 38 48.87	8' wire, white			0
a448a ✓	40 38 23.71	-72 38 37.78	small metal piece 3"x7"x0.25" metal			0
a449 ✓	40 38 27.71	-72 38 48.87	forward lower cargo bay structure FS 1000 left hand side			0
a449a ✓	40 38 26.56	-72 38 38.30	small metal piece 3x2' p/n: 65B08060-12n/c ADCN 1-2-3 7075-T6, s/n: 252 sept 11 1970			0
a451 ✓	40 38 26.76	-72 38 58.74	#1267448 - 65808074-39 green piece w/ gasket; horizontal stabilizer fairing			0
a452 ✓	40 38 25.73	-72 38 48.05	floor support			0
a453 ✓	40 38 26.08	-72 38 48.49	forward lower cargo bay structure FS 920 left hand side			0
a454 ✓	40 38 24.53	-72 38 48.31	arm rest			0
a455 ✓	40 38 25.67	-72 38 46.82	access door frame			0
a459 ✓	40 38 28.11	-72 39 02.61	front spar web and stiffener			0
a462 ✓	40 38 17.80	-72 38 32.84	forward lower cargo bay structure FS 960 right hand side			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a469 ✓	40 38 24.11	-72 38 44.40	overhead light			0
a470 ✓	40 38 25.71	-72 39 06.68	forward lower cargo bay structure FS 820 right hand side			0
a471 ✓	40 38 24.28	-72 39 06.17	1'x1" broken heavy metal strut			0
a474 ✓	40 38 24.40	-72 38 38.59	1.5' long framing and various small pieces			0
a475 ✓	40 38 32.09	-72 38 55.64	SWB #3, LH web, LBL 20-83			0
a476 ✓	40 38 23.46	-72 38 31.94	FS 840-880 STR R1-R6			0
a479 ✓	40 38 31.20	-72 38 54.42	1'x4" alum strut			0
a484 ✓	40 38 27.71	-72 38 48.87	strut p/n 65B41247-83 and 84			0
a486 ✓	40 38 28.17	-72 38 49.64	1.5' frame			0
a487 ✓	40 38 39.30	-72 39 17.22	1) 2.5"x1"x1" BAC27EBY-51 2) 18"x1"x2" metal ASSY 69B60682-1			0
a488 ✓	40 38 36.99	-72 39 20.25	ram air inlet screen			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a489 ✓	40 38 24.48	-72 38 27.12	frame FS 900 lower LBL 7-26			0
a491 ✓	40 38 23.06	-72 38 17.78	light framing with trim "ASSY 65B54_ _ _"			0
a497 ✓	40 38 31.20	-72 38 54.42	body fairing		target not supported by wreckage log - JAC 12/03/96	0
a500 4 ✓	40 38 32.60	-72 38 38.37	front spar web RBL 76		wreckage log lat/long differ from target by approx. 20" - JAC 12/03/96	0
a504 ✓	40 38 32.87	-72 39 10.47	10' heavy framing			0
a508 ✓	40 38 32.10	-72 38 58.08	6' strut, 9302356 on framing			0
a512 ✓	40 38 24.40	-72 38 38.59	personal effects			0
a521 ✓	40 38 22.97	-72 38 29.33	1) rubber window molding 2) piece of insulation with plastic latch 3) angled plastic molding 6"x3" p/n 162-103-8			0
a522 ✓	40 38 23.87	-72 38 34.01	6' piece of red wire			0
a523 ✓	40 38 32.10	-72 38 58.08	1) fluorescent light fixture p/n BR6219-401 2) bracket 4"x18" 3) small 3" piece of plastic			0
a524 ✓	40 38 31.77	-72 38 55.37	1) metal frame with electric plug and wire assy "69B71009-1" 2) metal tube 12" assy 65B41247.79			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
✓ a525	40 38 26.42	-72 38 39.48	several small pieces of wire			0
a533 ✓	40 38 30.66	-72 38 59.76	3 pieces: 1) metal 10"x18", 2) spring/hinge, small, 3) plastic cowling 6"x6"x2"			0
a534 ✓	40 38 31.77	-72 38 55.37	1) metal strap 4x1" p/n 65B41247-5, 2) 4x2"x11" possible fiberglass			0
a535 ✓	40 38 26.56	-72 38 38.30	1) metal 14"x6"x1.5" p/n 65B38600-137, 2) yellow oxygen mask, 3) 2.5' metal pipe 3/4" diameter plus hose and toggle switch			0
a536 ✓	40 38 30.66	-72 38 59.76	forward lower cargo bay structure FS 940 left hand side			0
a537 ✓	40 38 26.64	-72 39 01.31	fiberglass rib 3x1x3"			0
a541 ✓	40 38 13.98	-72 38 14.91	forward lower cargo bay structure FS 860 left hand side (5x2.5x1" metal piece p/n 65B107, also a 1.5x2" metal piece)			0
a601 ✓	40 38 35.80	-72 39 09.00	forward lower cargo bay structure FS 800-840 centerline (FS 980 floor beam - LBL 20 to RBL 11; LF162 cut from LF31)			0
a605 ✓	40 38 35.80	-72 39 09.00	right belly and cargo track between FS 800-940 STR 37R-44R			0
a606	40 38 33.1 40 38 34.80	72 39 11.10 -72 39 09.20	pile of debris: 4' piece of metal tubing, short 6" piece of framing with several screws, interior framing with w/ hydraulic lines attached, 2"x2" metal scrap. single (18") piece of rib with rivets.		wreckage log indicates multiple nearby locations for the debris - JAC 12/03/96	0
a610 ✓	40 38 37.56	-72 39 13.38	cargo bin structure, upper track (roller tray), bent twisted metal piece			0

000029

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
△ a614	40 38 28.29	-72 38 49.71	forward lower cargo bay structure FS 800 left hand side			0
✓ a618	40 38 47.80	-72 39 08.40	front spar, LBL 60-95			0
✓ a628	40 38 43.63	-72 39 13.03	trim air duct			0
✓ a629	40 38 46.70	-72 39 11.60	ice hammer			0
✓ a633	40 38 33.24	-72 39 05.70	duct work			0
✓ a660	40 38 32.50	-72 38 53.40	long piece of framing			0
✓ a669	40 38 31.93	-72 38 52.42	small frame section with green rod			0
✓ a685	40 38 49.80	-72 39 27.50	lightweight material 4' long with motor on side			0
✓ a708	40 38 20.80	-72 38 34.10	"Y" shaped metal with holes, overhead support			0
✓ a712	40 38 20.00	-72 38 26.30	metal and plastic interior piece #1471078 1, 1471114 26, galley piece ?			0
✓ a714	40 38 21.80	-72 38 43.80	structure framing 1'x3', white fiberglass support			0

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
✓ a719	40 38 28.80	-72 38 28.70	metal piece w/jagged edge 10" in length-green			0
✓ a726	40 38 32.20	-72 38 35.00	small electrical access panel with 2 plugs			0
✓ a728	40 38 34.20	-72 38 54.50	plastic door			0
✓ a729	40 38 33.80	-72 38 57.00	rib w/ pulley; strut with wheels		description as rib w/ pulley unsupported - JAC 12/03/96	0
✓ a730	40 38 31.20	-72 38 59.30	cargo floor			0
✓ a734	40 38 25.50	-72 38 55.40	forward lower cargo bay structure FS 960 left hand side			0
✓ a734	40 38 25.50	-72 38 55.40	forward lower cargo bay structure FS 960 left hand side			0
✓ a735	40 38 29.80	-72 38 55.00	stringer			0
✓ a736	40 38 31.50	-72 38 51.00	seat piece			0
✓ a737	40 38 29.20	-72 38 52.80	white "L" shaped brace 2' long			0
✓ a738	40 38 28.29	-72 38 49.71	structural member w/holes			0

000031

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
a741 ✓	40 38 32.40	-72 38 53.00	floor beam lower chord FS 880 LBL 5-25			0
a742 ✓	40 38 30.70	-72 38 54.50	ducting 900 RH Zone C			0
a744 ✓	40 38 29.20	-72 38 54.30	forward lower cargo bay structure FS 1000 left hand CW outer skin (canted press bulkhead w/some body skin)			0
a745 ✓	40 38 41.10	-72 39 04.30	panel, wires, 110v outlet (elec. relay panel, fwd cargo bin), p/n 65B40474-22 and 65B40476-10 RA164			0
a746 ✓	40 38 39.90	-72 39 05.50	small metal piece			0
a747 ✓	40 38 34.80	-72 39 01.90	part of cargo conveyor system			0
a748 ✓	40 38 34.70	-72 39 01.40	arm rest			0
a749 ✓	40 38 37.30	-72 38 59.00	air filter (galley).			0
a753 ✓	40 38 27.80	-72 39 14.80	fuselage STR, 7' section			0
a860 ✓	40 38 24.22	-72 38 45.25	piece of wire			0

~~B061~~ 40 ~~38~~ 03.00 -72 ~~38~~ 32.00
 NO INFO WAS FOUND TO SUPPORT THIS POSN.
 CORRECT POSN FOR PIECE IS
 40 38 41.29 -72 39 15.25

Exempt tag. See keel beam documentation. Changed to A2048

No WL or Tgt information (phil 10/1/96); B061 changed to A2048 per diver report (JDC 11/9/96); location from early QA list - JAC 12/04/96

Tag	Latitude	Longitude	Description (Actual)	General Admin	Comments	Color
✓ b094	40 38 31.84	-72 38 24.90	ASSY part 65B54209-5, 2x5' green alum folded w/holes	Debris field changed per FBI Lot# audit for out-of-area tags.	Lat/long verified with tgt and wreckage logs (phil 9/25/96) Mobile dive team NYPD-1/WB53-1	-1
✓ c091	40 38 26.58	-72 39 06.48	part of tire	Debris field changed per FBI Lot# audit for out-of-area tags.	lat long matches wreckage log and target database (phil 9/26/96)	-1
✓ c092	40 38 27.88	-72 39 10.07	metal part GD5340A wire attached	Debris field changed per FBI Lot# audit for out-of-area tags.	Lat/long verified with tgt and wreckage logs (phil 9/25/96)	-1
✓ c093	40 38 26.58	-72 39 06.48	seat part, tray table piece	Debris field changed per FBI Lot# audit for out-of-area tags.	Lat/long verified with tgt and wreckage logs (phil 9/25/96) FBI 8 19 96-9	-1
✓ x2201	40 38 05.24	-72 38 37.29	large section of metal (8x6') changed from Z3453 to X2201 to match actual debris field	Source tag changed per FBI Lot# audit. Updated per FBI Lot# audit.		0
<i>Exempt - OK TO USE</i>						
✓ x3002	40 38 24.57	-72 38 43.94	FS 890-990 STR 40R			0
✓ x3005	40 38 22.77	-72 39 06.67	FS 920 frame STR 2R-5R, approx 1' long curved piece of fiberglass			0
✓ x3008	40 38 23.82	-72 38 40.48	"L" shaped plastic piece			0
✓ z3572	40 38 24.01	-72 38 40.06	misc. metal	Debris field changed per FBI Lot# audit for out-of-area tags.		-1
✓ z3573	40 38 23.77	-72 38 40.56	FS 880-930 STR 35L	Debris field changed per FBI Lot# audit for out-of-area tags.		-1
✓ z3694	40 38 34.66	-72 39 18.72	misc. metal	Debris field changed per FBI Lot# audit for out-of-area tags.		-1

THESE ARE ALL OK TO USE - POSNS OK, TAG COLORS WRONG.

FIVE
NTSB Record 33
—9 pages of charts of segments of radar data

16 Dec 97

RHD data from Mike O'R 12/8/97 -- RHD secondaries

TIME	RANGE	AZIMUTH	MODE C
110.7	17.00	198.98	12800.
122.4	16.25	195.64	12800.
134.2	15.63	192.66	13000.
146.0	15.13	188.44	13200.
157.8	14.50	184.04	13200.

PORT. 13

12/11/97

RHD data from Mike O'R 12/8/97 - RHD sensor data

TIME	RANGE	AZIMUTH	MODE C
28:59.5	22.25	214.19	13000.
29:11.4	21.25	212.08	12800.
29:23.2	20.38	209.97	12800.
29:35.0	19.38	207.51	11700.
29:46.9	18.63	204.96	12700.
29:58.8	17.75	202.06	12800.
30:10.7	17.00	198.98	12800.
30:22.4	16.25	195.64	12800.
30:34.2	15.63	192.66	13000.
30:46.0	15.13	188.44	13200.
30:57.8	14.50	184.04	13200.

usn rp44-rag

12/12/97

Busn rp44.raz

RP44=Riverhead, NY

SITE	TIME	RANGE	AZIMUTH	MODE C
RP44	0028:59.5	22.25	214.19	13,000
RP44	0029:11.4	21.25	212.08	12,800
RP44	0029:23.2	20.38	209.97	12,800
RP44	0029:35.0	19.38	207.51	12,700
RP44	0029:46.9	18.63	204.96	12,700
RP44	0029:58.8	17.75	202.06	12,800
RP44	0030:10.7	17.00	198.98	12,800
RP44	0030:22.4	16.25	195.64	12,800
RP44	0030:34.2 ^{11.8}	15.63	192.66	13,000
RP44	0030:46.0 ^{11.8}	15.13	188.44	13,200
RP44	0030:57.8 ^{11.8}	14.50	184.04	13,200

21.4 - 11.8 x 2

20 Nov 97

16.22	21.516	126.914
16.22	21.609	126.387
20.91	21.609	127.969
20.91	21.516	127.705
20.91	22.016	124.189
25.61	21.563	127.881
25.46	22.266	123.574
30.30	21.563	127.266
30.15	22.422	123.223
35.02	22.266	124.805
34.87	22.469	122.695
39.56	22.578	122.52
39.56	22.469	122.52
44.26	22.734	122.52
48.96	22.875	122.432
53.80	21.859	125.947
58.50	22.328	125.156
63.19	22.375	124.98

nts6. (sp)

(Surt. 22)

0,31,16.22,0,21.516,126.914,0,2,7,0,,1876.22,1875.97
0,31,16.22,0,21.609,126.387,0,2,7,0,,1876.22,1875.97
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0,31,20.91,0,21.516,127.705,0,2,2,0,,1880.91,1880.66
0,31,20.91,0,22.016,124.189,0,2,3,0,,1880.91,1880.66
0,31,25.61,0,21.563,127.881,0,2,2,0,,1885.61,1885.36
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ntsb.isp

16.75	50.25	102.041
16.75	50.469	101.865
21.35	50.875	101.602
21.35	50.688	102.041
21.35	50.406	101.953
21.35	50.313	102.129
25.98	50.25	101.602
25.98	50.813	101.777
25.98	51.25	101.602
25.98	50.625	102.129
25.98	50.438	102.217
30.59	51.500	101.25
30.59	50.688	101.689
30.59	51.094	102.041
30.59	50.375	102.041
35.07	51.656	100.898
35.22	51.188	101.602
35.22	50.500	102.129
39.71	51.750	101.162
39.71	51.688	101.074
39.83	51.219	101.602
44.31	51.781	100.459
44.31	51.938	101.074
44.46	50.563	102.129
44.46	51.250	101.689
48.92	51.938	100.986
49.07	52.063	101.25
49.07	50.531	101.777
49.07	50.906	101.865
53.56	52.000	100.898
53.56	52.094	101.074
53.71	50.563	102.305
58.17	52.156	100.898
58.17	52.063	100.986
58.31	51.250	101.865
62.95	51.281	101.602
62.8	52.125	100.986
62.95	50.438	102.129

19W0057

ntsb.jfk

1900097

ntsb.jfk

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Data typed in from listing from NTSB file NVYALL1.CSV

Time(s)	Range	Azimuth
21.4	13.75	175.25
33.3	13.25	170.33
45.2	13.13	168.84
57.1	13.25	168.05
69.0	13.25	168.31

NVY 4'x

← time?

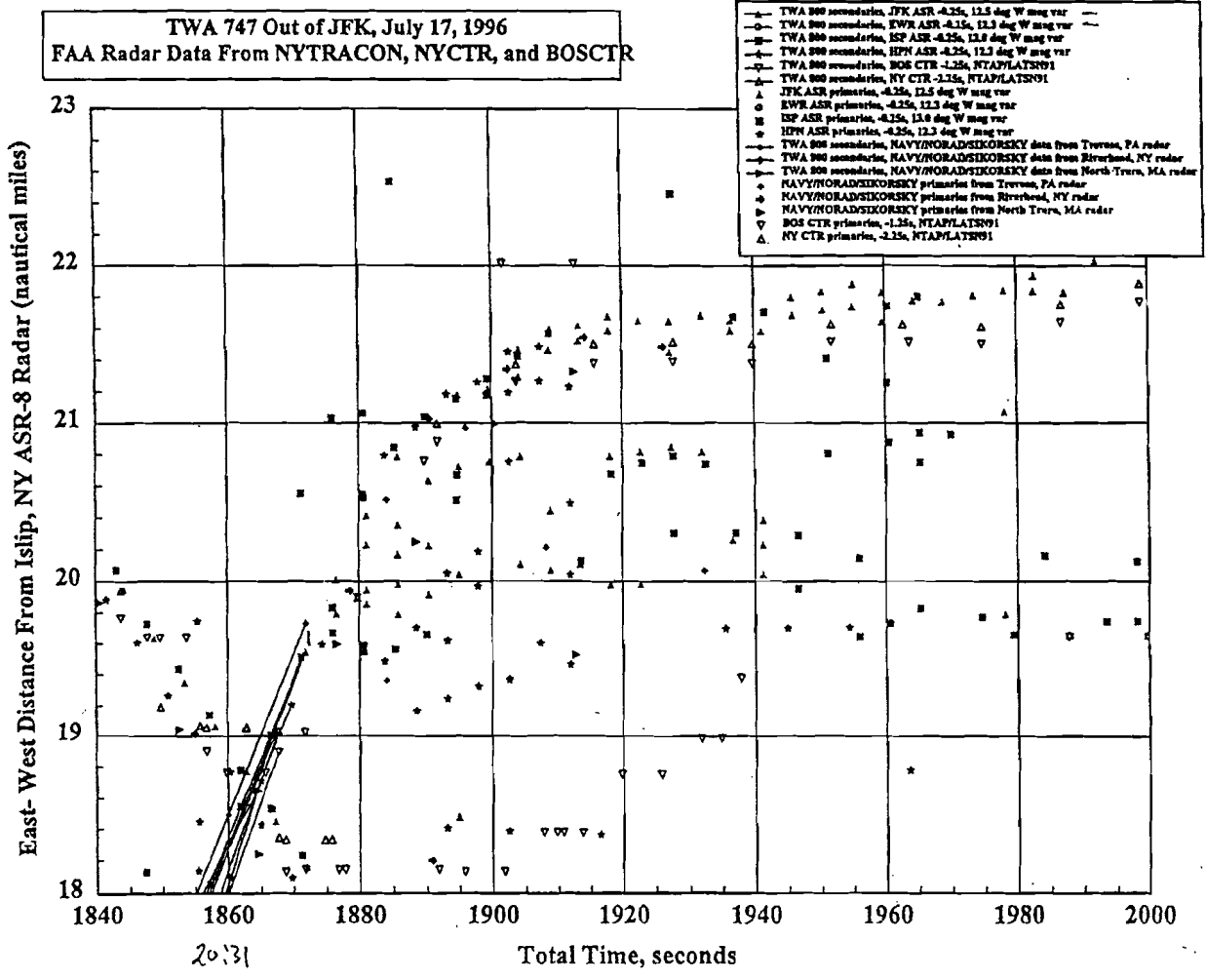
Data typed in from listing from NTSB 12 Nov 97

Time(s)	X	Y
14.64	19.5940	-8.7756
24.04	20.7970	-7.7169
24.04	19.4841	-9.1837
28.75	20.9738	-7.7106
28.75	19.1684	-9.6679
28.75	19.7022	-9.2063
33.44	21.1818	-7.5339
33.44	19.2493	-9.6182
33.44	19.6201	-9.1626
33.44	20.0512	-8.6423
38.13	21.2604	-7.4789
38.13	19.3281	-9.4733
38.13	19.9714	-8.6942
38.13	20.1898	-8.7139
42.83	20.7566	-8.2555
42.83	21.1938	-7.7247
42.83	21.4527	-7.2921
42.83	19.3695	-9.4957
47.52	21.4858	-7.5872
47.52	21.2664	-7.5748
47.52	19.6032	-9.0601
52.22	20.4911	-8.1223
52.22	21.2300	-7.6502
52.22	19.4642	-9.4531
52.22	20.0435	-8.4520
75.71	19.6995	-9.1112

SEN3.XYZ

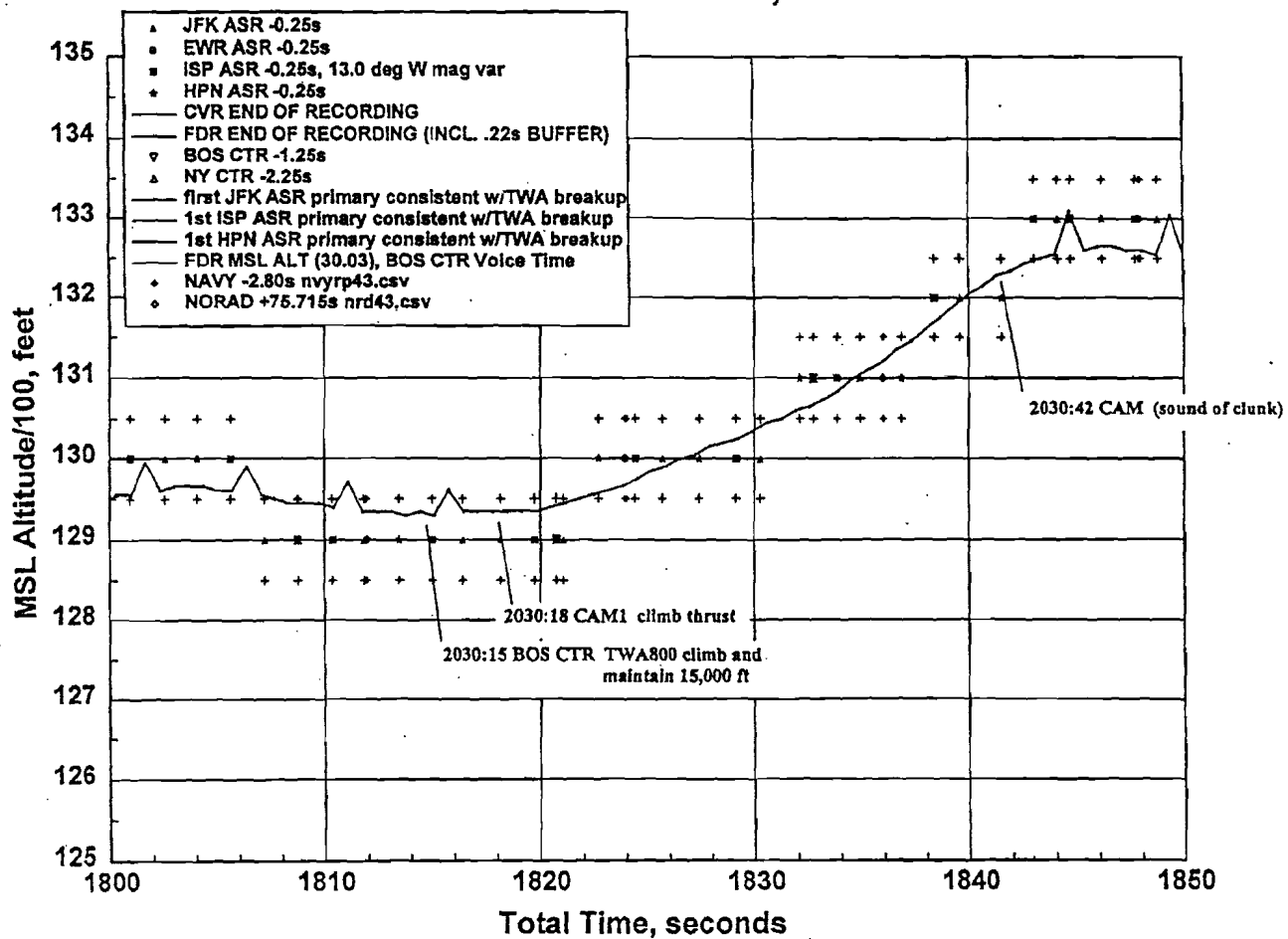
HPN primaries with
12.30 mag, XY red to ISP

SIX
NTSB Record 34
—29 graphic representations of FAA radar data for TWA flight 800



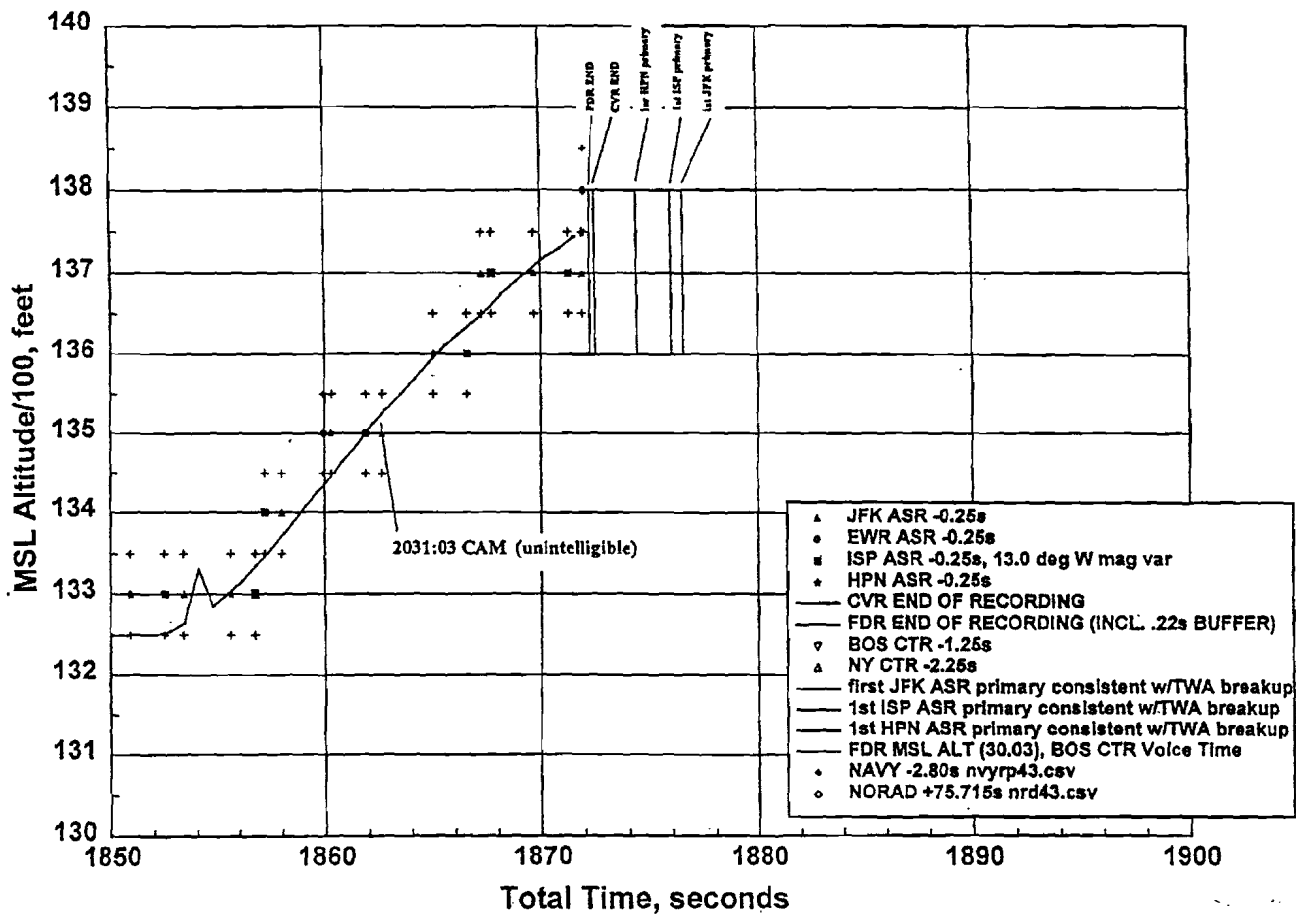
3-23

TWA 747 out of JFK, 7/17/96



3-27

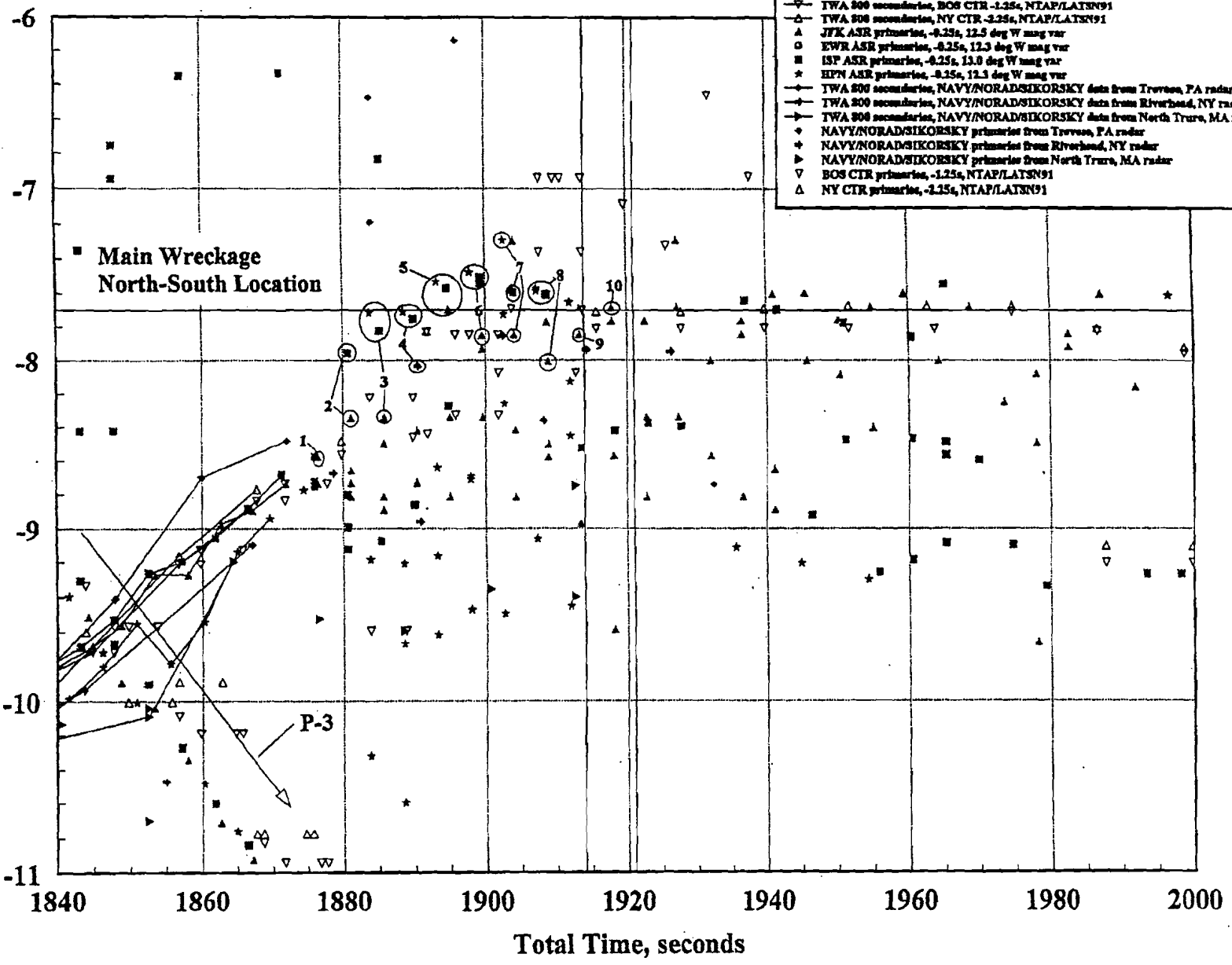
TWA 747 out of JFK, 7/17/96



3-21

TWA 747 Out of JFK, July 17, 1996
FAA Radar Data From NYTRACON, NYCTR, and BOSCTR

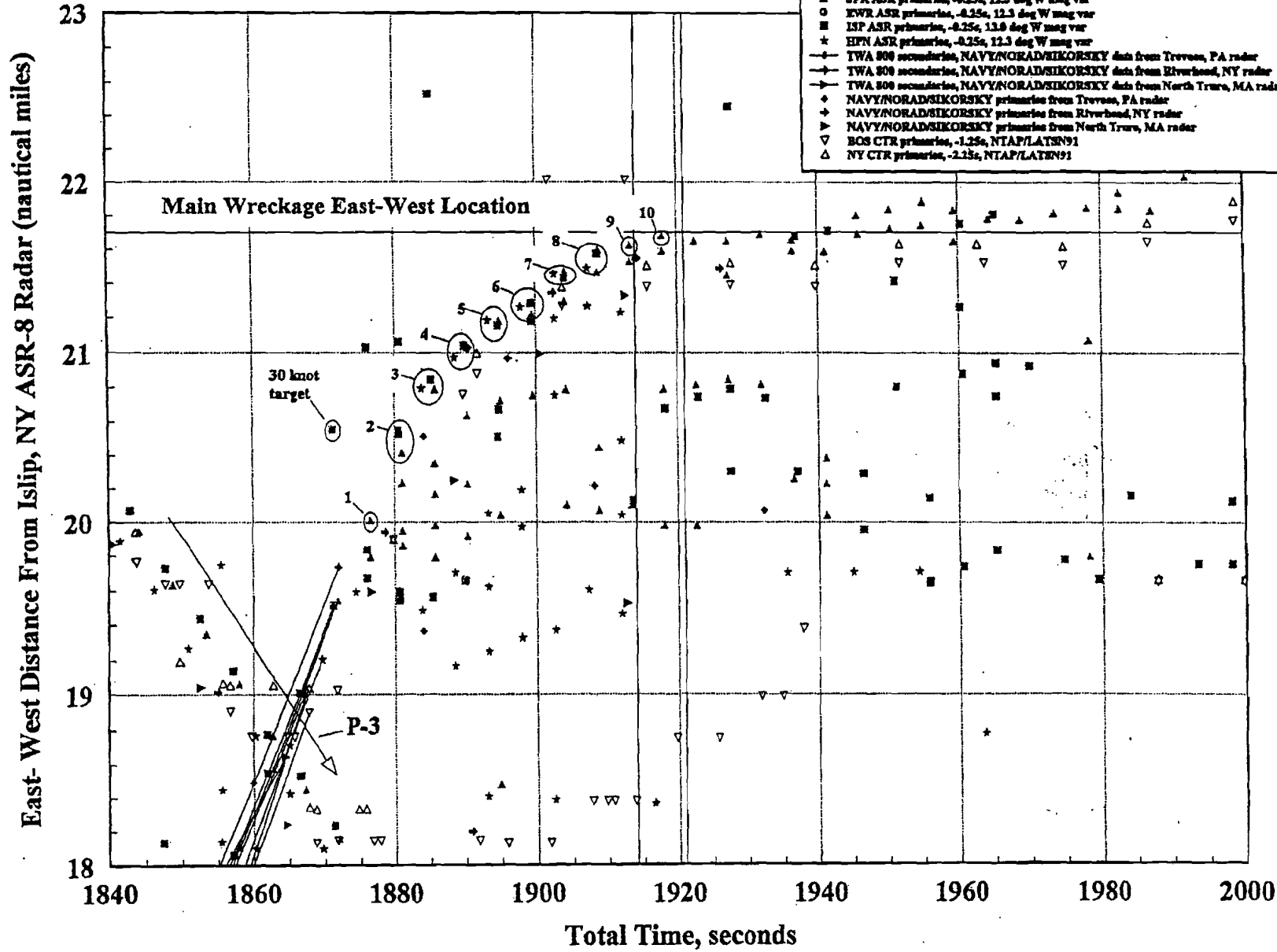
North-South Distance From Islip, NY ASR-8 Radar (nautical miles)



- ▲ TWA 800 secondaries, JFK ASR -4.25s, 12.5 deg W mag var
- TWA 800 secondaries, EWR ASR -0.25s, 12.3 deg W mag var
- TWA 800 secondaries, ISP ASR -0.25s, 13.0 deg W mag var
- ★ TWA 800 secondaries, HFN ASR -0.25s, 12.5 deg W mag var
- ▽ TWA 800 secondaries, BOS CTR -1.25s, NTAP/LATS91
- △ TWA 800 secondaries, NY CTR -1.25s, NTAP/LATS91
- ▲ JFK ASR primaries, -0.25s, 12.5 deg W mag var
- EWR ASR primaries, -0.25s, 12.3 deg W mag var
- ISP ASR primaries, -0.25s, 13.0 deg W mag var
- ★ HFN ASR primaries, -0.25s, 12.3 deg W mag var
- ◆ TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from Travesse, PA radar
- ◄ TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from Riverhead, NY radar
- TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from North Truro, MA radar
- ◆ NAVY/NORAD/SIKORSKY primaries from Travesse, PA radar
- ◄ NAVY/NORAD/SIKORSKY primaries from Riverhead, NY radar
- NAVY/NORAD/SIKORSKY primaries from North Truro, MA radar
- ▽ BOS CTR primaries, -1.25s, NTAP/LATS91
- △ NY CTR primaries, -1.25s, NTAP/LATS91

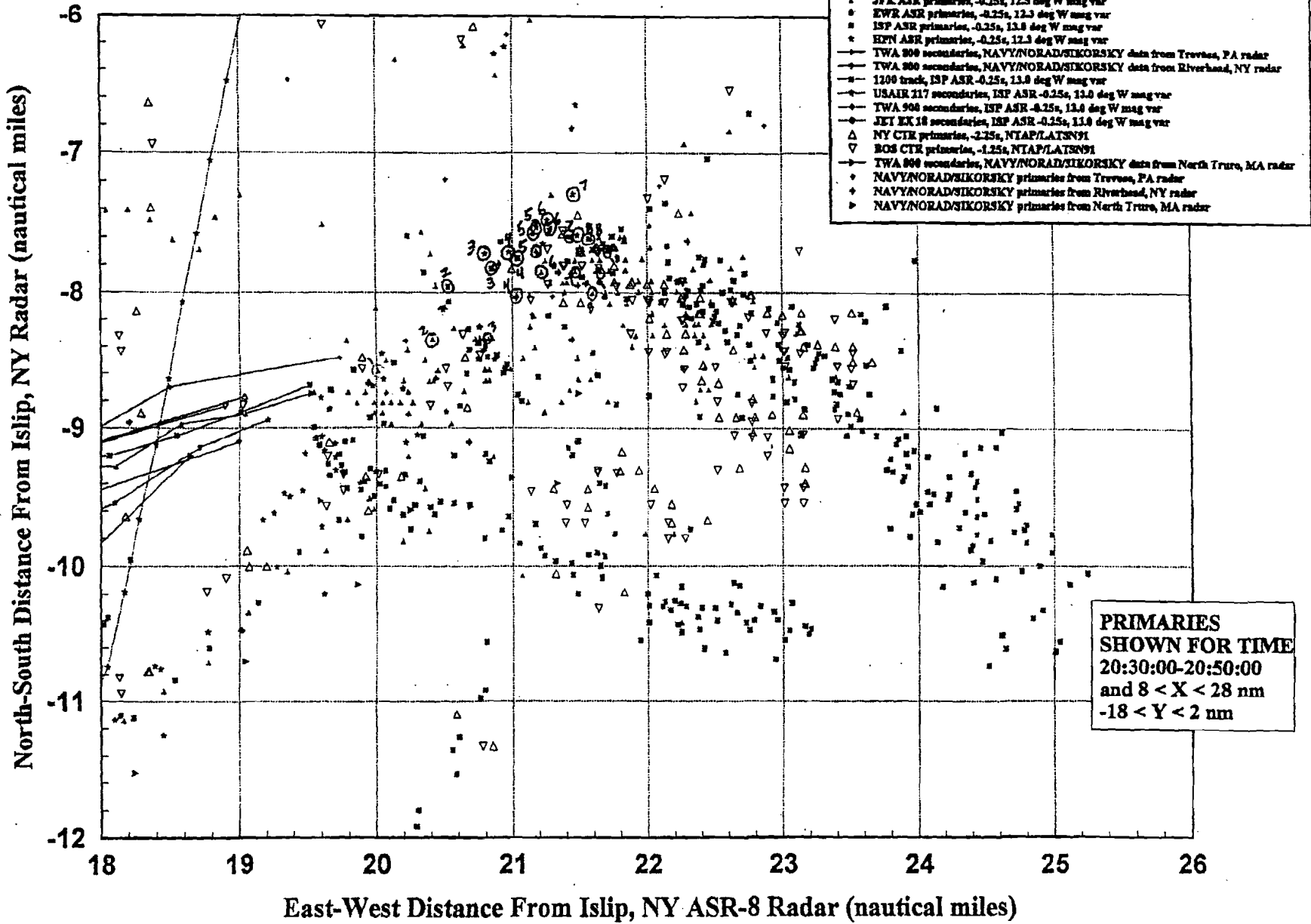
TWA 747 Out of JFK, July 17, 1996
FAA Radar Data From NYTRACON, NYCTR, and BOSCTR

- ▲ TWA 800 secondaries, JFK ASR -0.25s, 12.5 deg W mag var
- TWA 800 secondaries, EWR ASR -0.25s, 12.3 deg W mag var
- TWA 800 secondaries, ISP ASR -0.25s, 12.6 deg W mag var
- ★ TWA 800 secondaries, HPN ASR -0.25s, 12.3 deg W mag var
- ▽ TWA 800 secondaries, BOS CTR -1.25s, NTAP/LATS/N91
- △ TWA 800 secondaries, NY CTR -2.25s, NTAP/LATS/N91
- ▲ JFK ASR primaries, -0.25s, 12.5 deg W mag var
- EWR ASR primaries, -0.25s, 12.3 deg W mag var
- ISP ASR primaries, -0.25s, 12.6 deg W mag var
- ★ HPN ASR primaries, -0.25s, 12.3 deg W mag var
- TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from Trevose, PA radar
- ← TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from Riverhead, NY radar
- TWA 800 secondaries, NAVY/NORAD/SIKORSKY data from North Truro, MA radar
- ◆ NAVY/NORAD/SIKORSKY primaries from Trevose, PA radar
- ◆ NAVY/NORAD/SIKORSKY primaries from Riverhead, NY radar
- ◆ NAVY/NORAD/SIKORSKY primaries from North Truro, MA radar
- ▽ BOS CTR primaries, -1.25s, NTAP/LATS/N91
- △ NY CTR primaries, -2.25s, NTAP/LATS/N91



MORI DOUID: L44/304

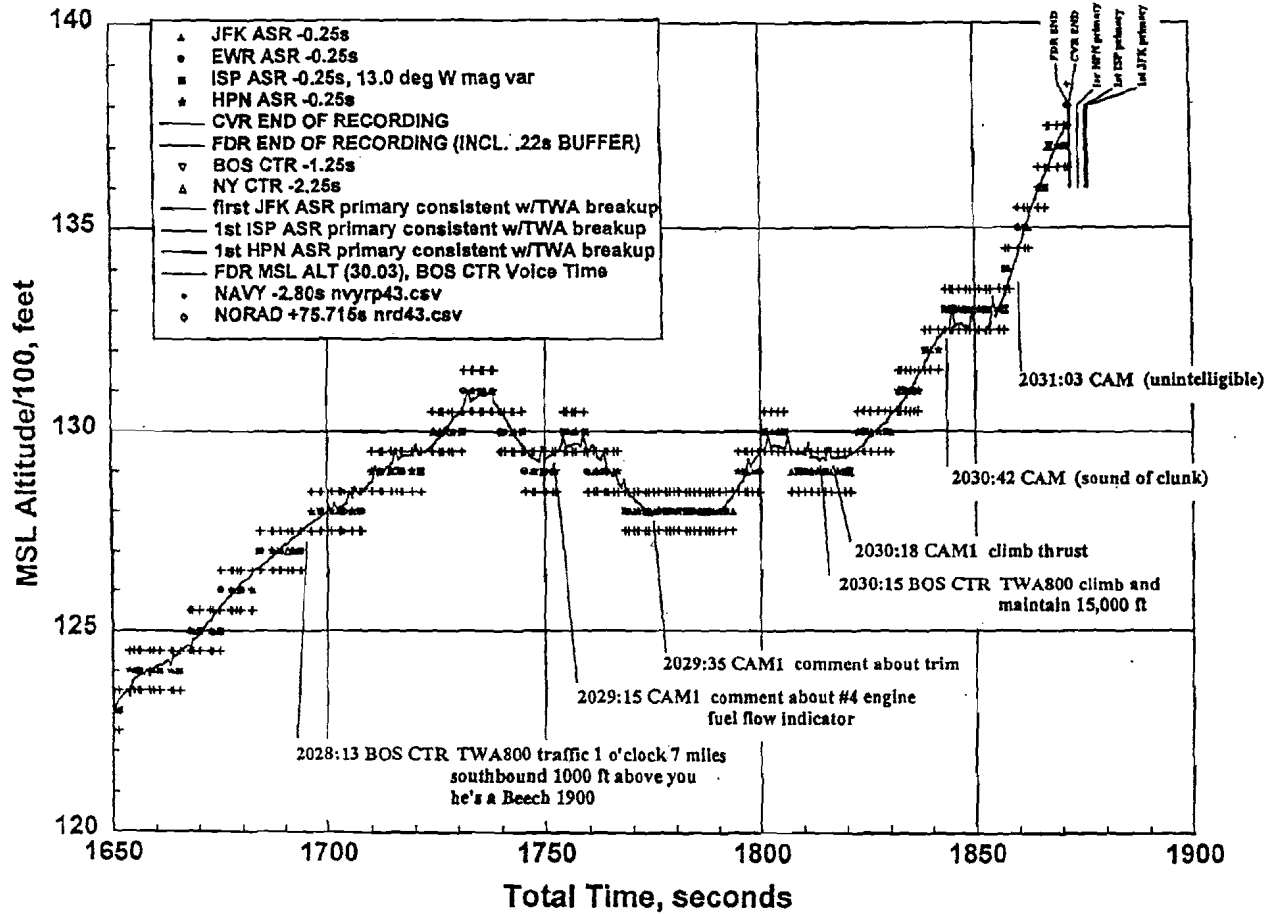
WA 747 Out of JFK, July 17, 1996
Radar Data Overhead View Up To Last Secondary



TWA XY-97.5 GX
 SLIDE B

MORI DocId: 1447002

TWA 747 out of JFK, 7/17/96

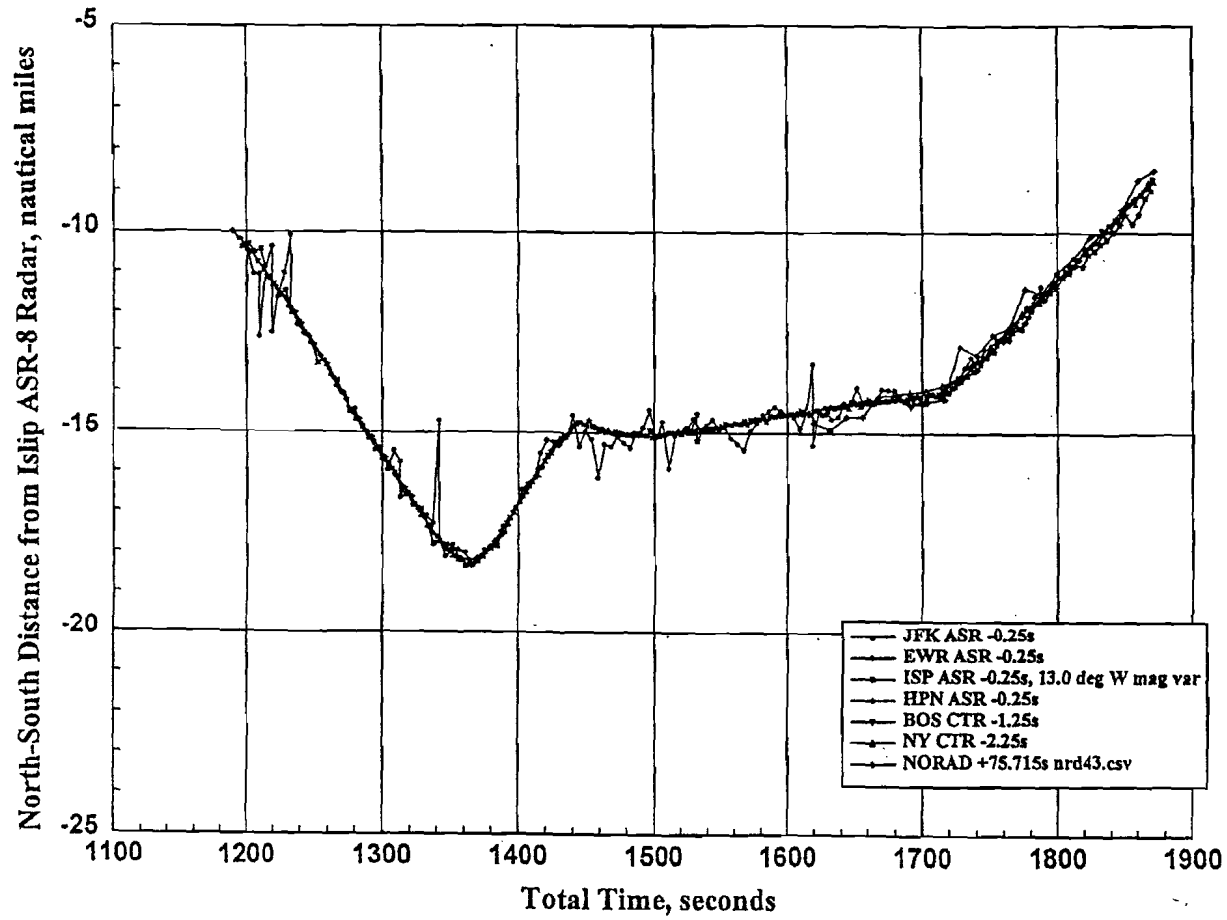


3-1

MORI DocID: 1147382

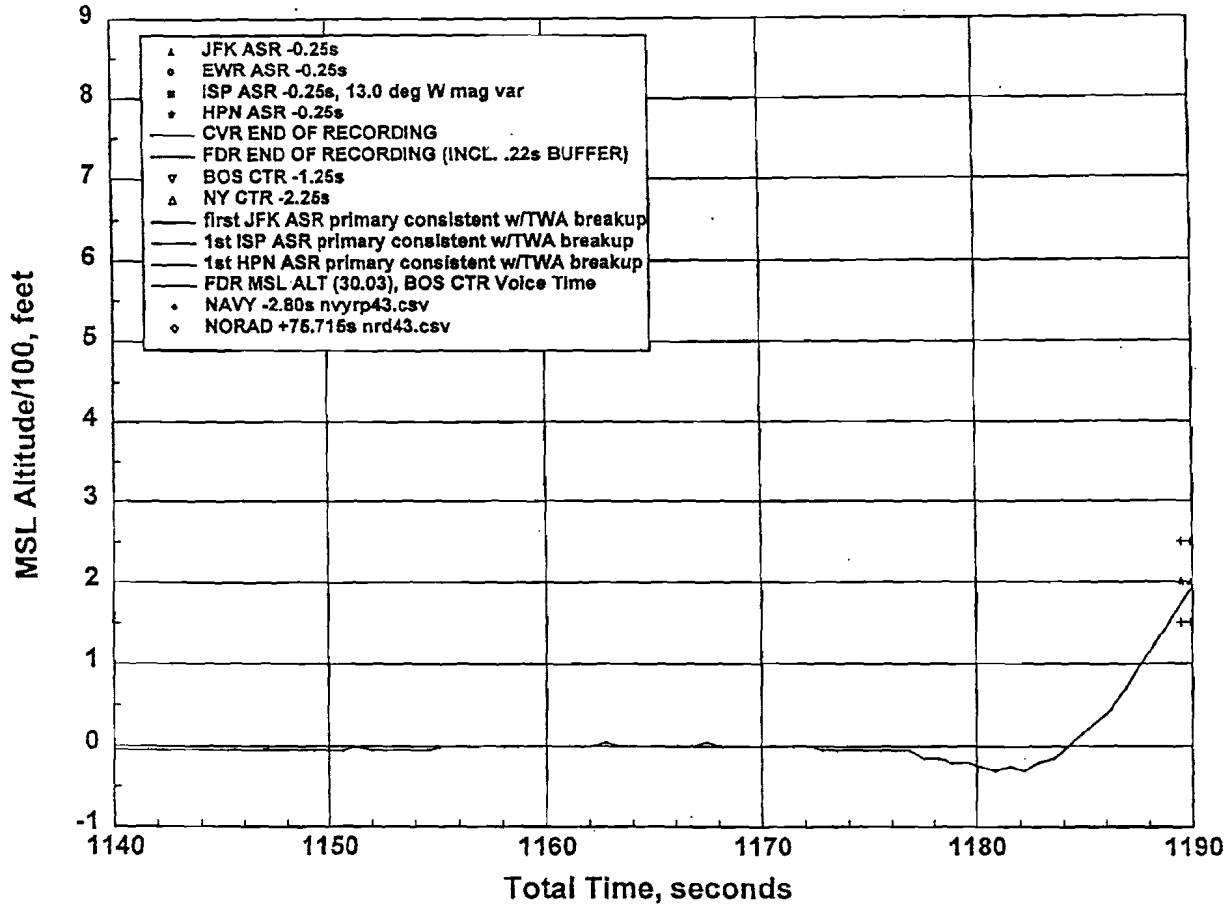
000051

TWA 747 out of JFK, 7/17/96



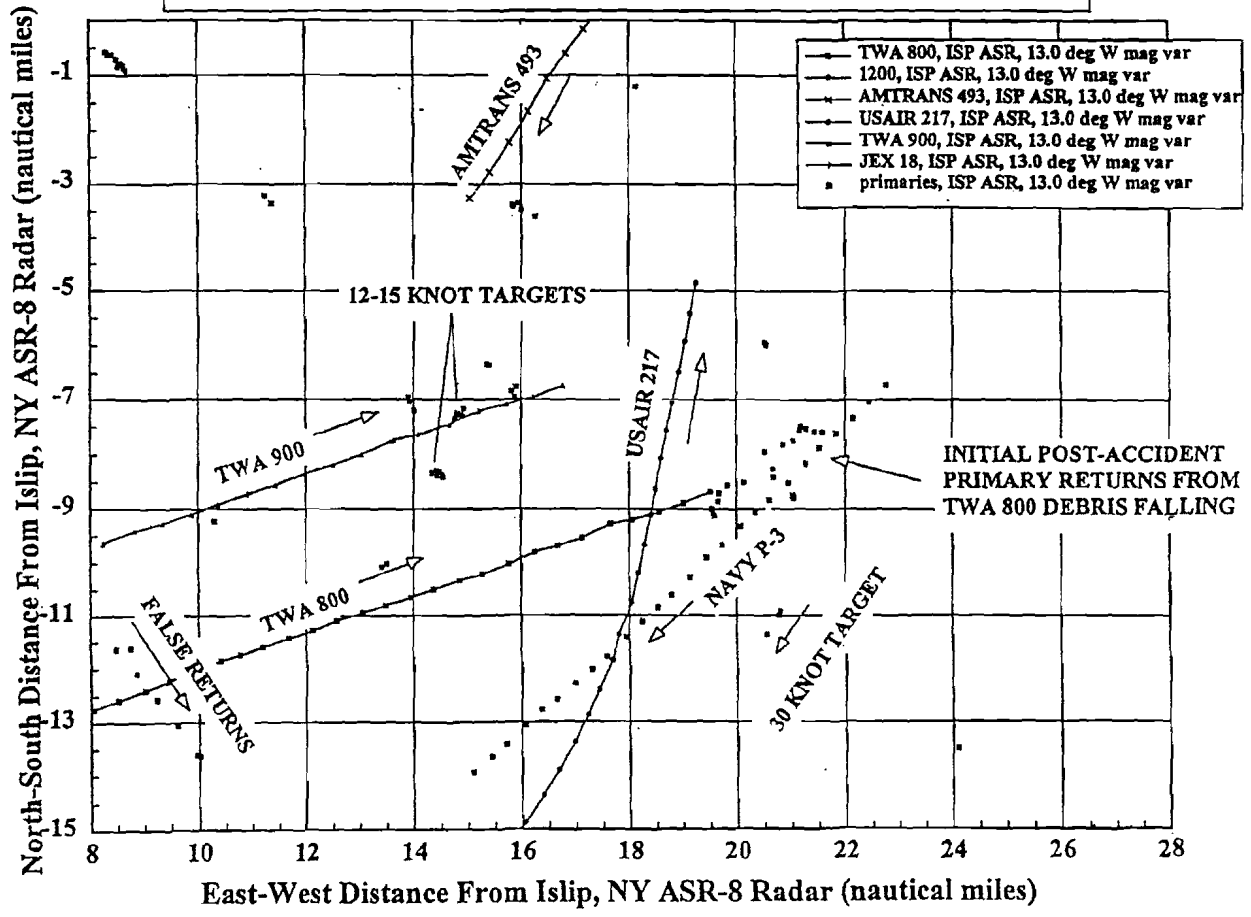
3-5

TWA 747 out of JFK, 7/17/96



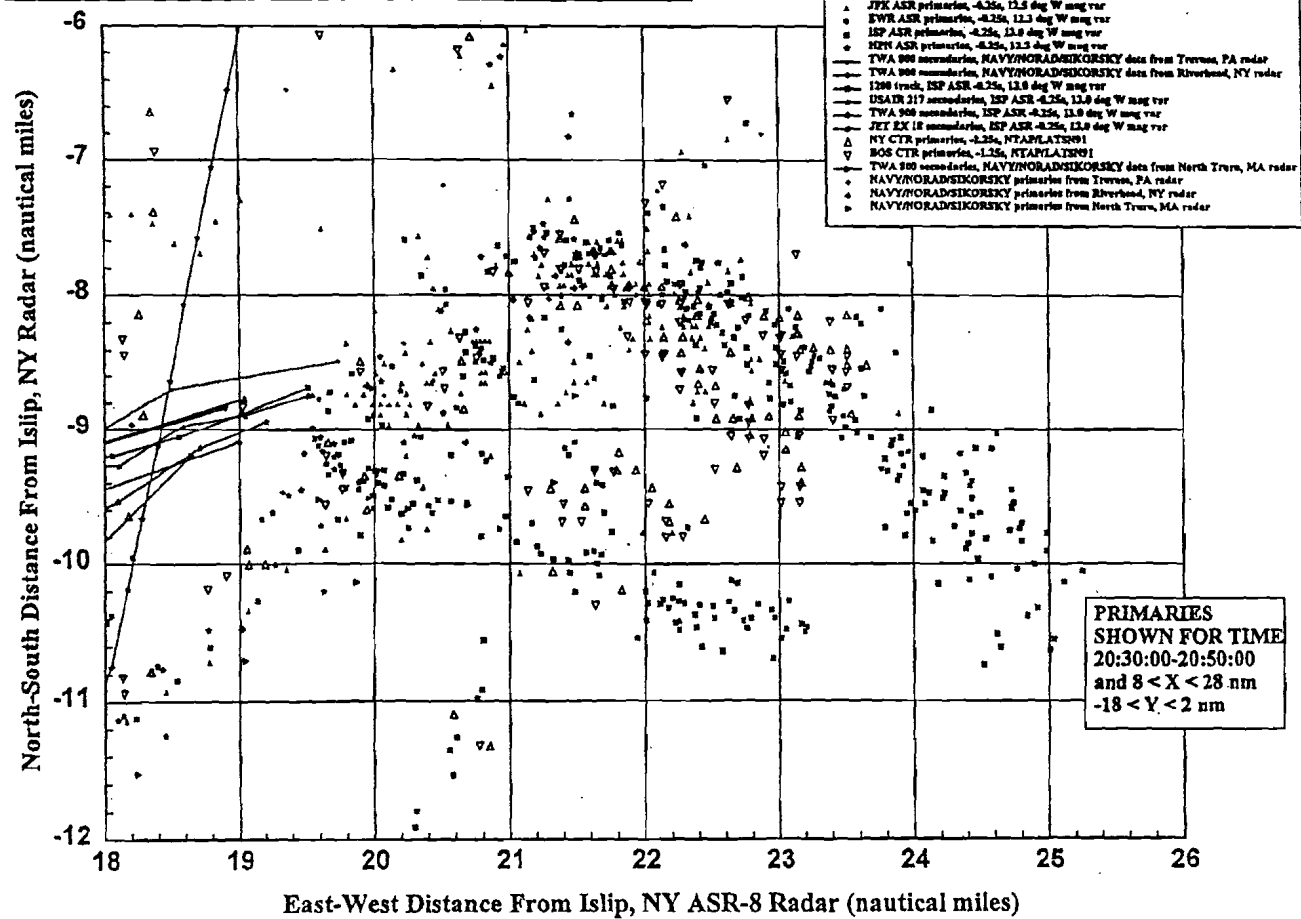
3-7

**RADAR DATA PLAN VIEW, ISLIP RADAR, TIME 2030-2032 EDT
TWA FLIGHT 800 OUT OF JFK, JULY 17, 1996**



8-26-1

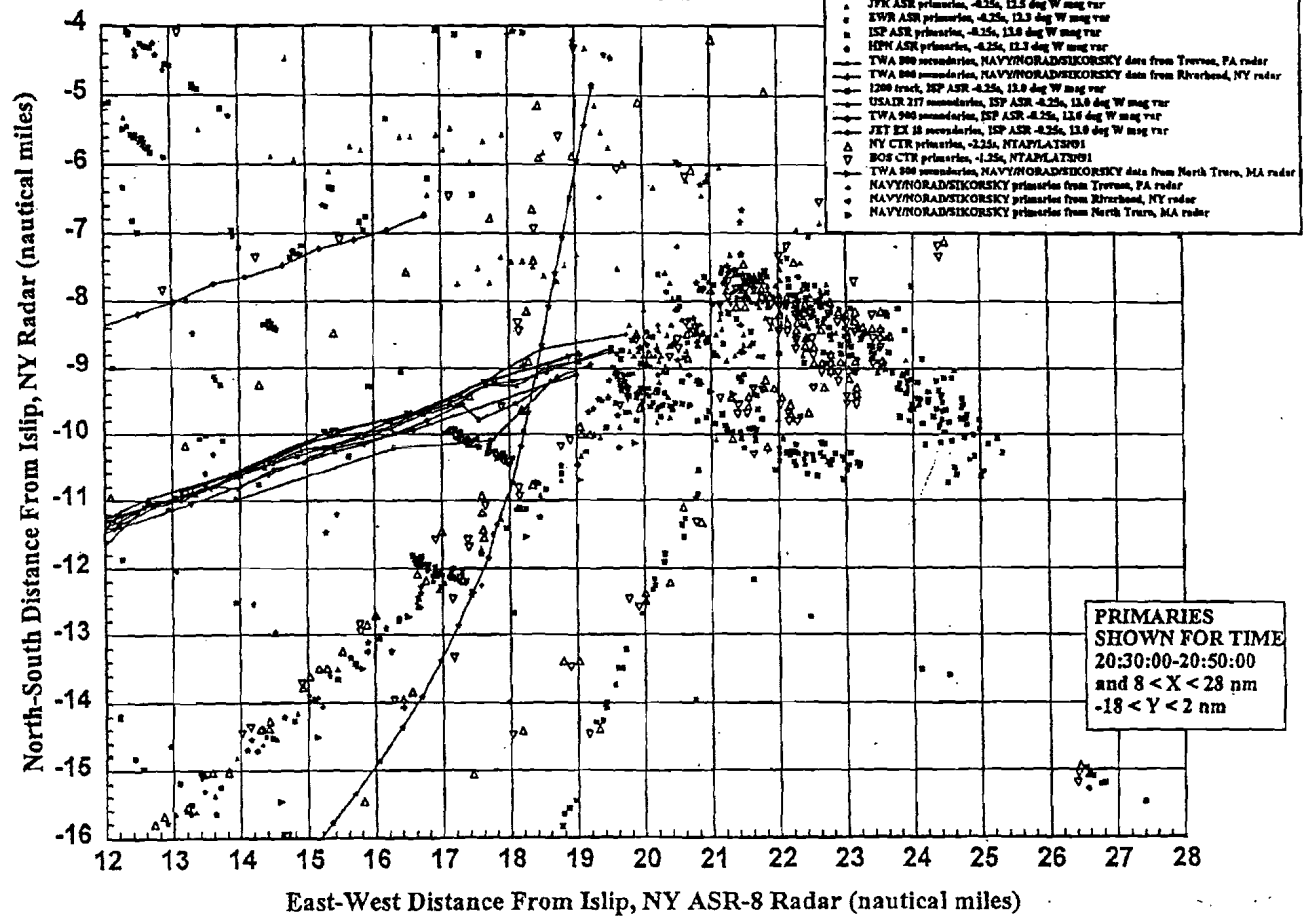
TWA 747 Out of JFK, July 17, 1996
Radar Data Overhead View Up To Last Secondary



4-5

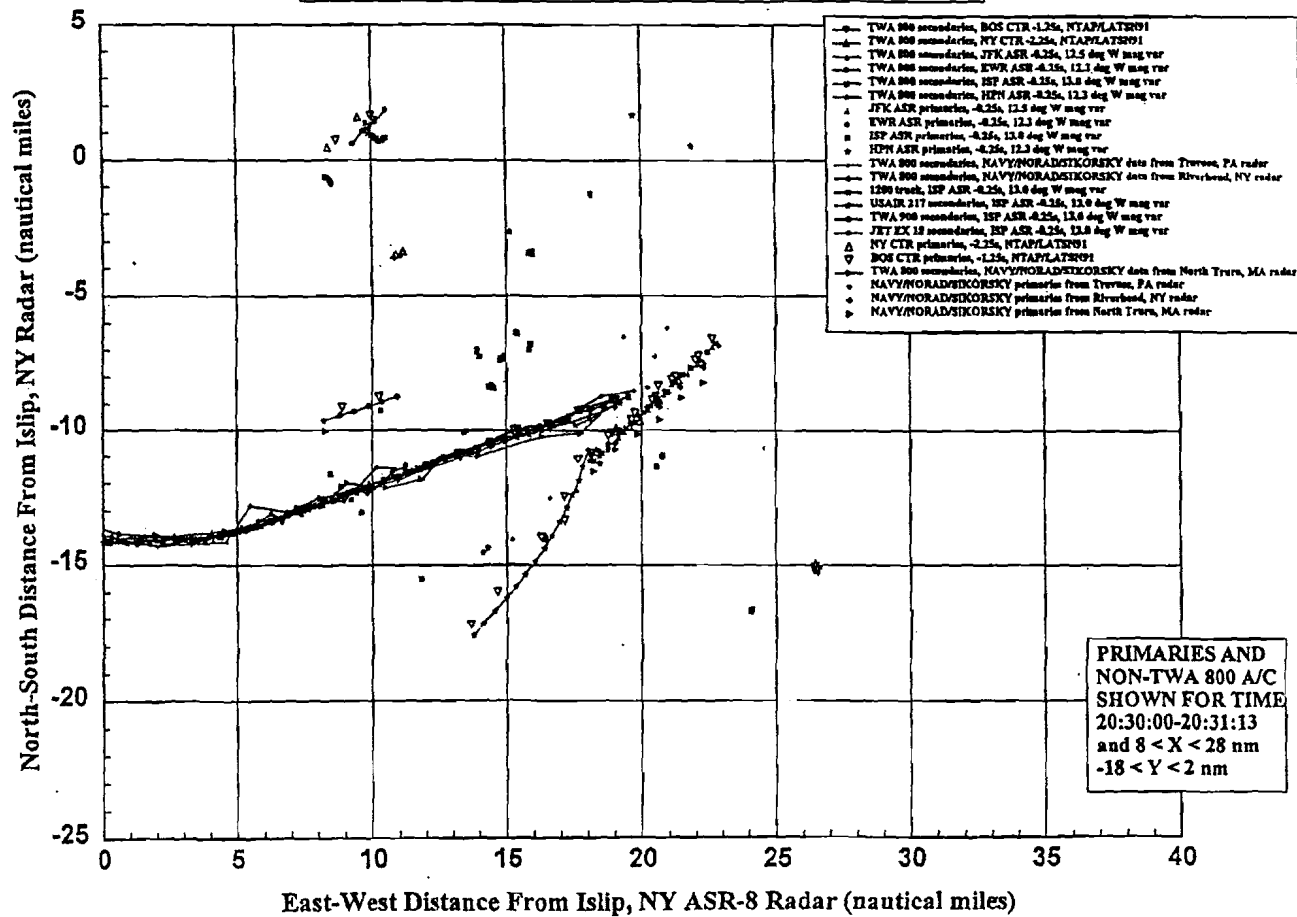
NORT DOUGLAS AIR FORCE

TWA 747 Out of JFK, July 17, 1996
Radar Data Overhead View Up To Last Secondary



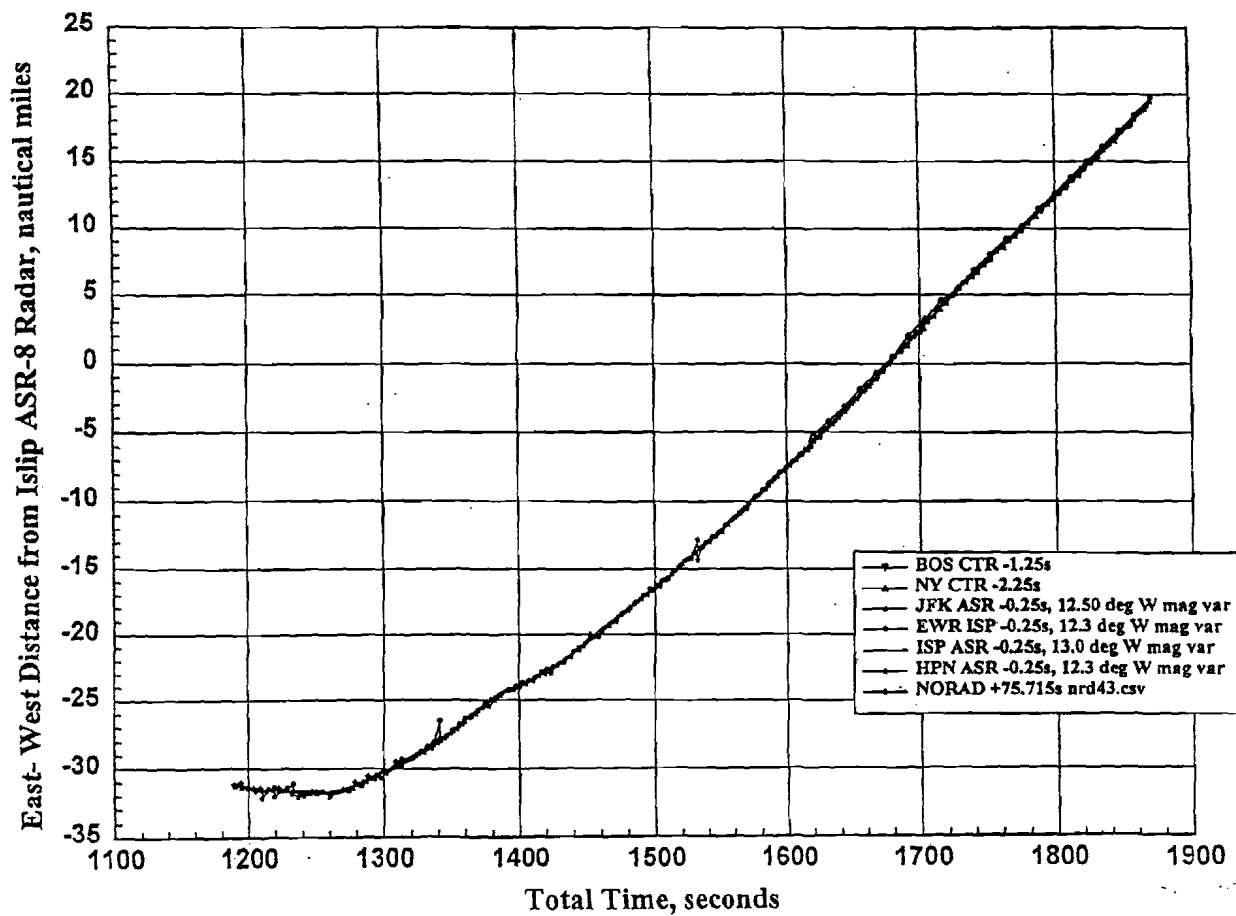
2-3

TWA 747 Out of JFK, July 17, 1996
Radar Data Overhead View Up To Last Secondary



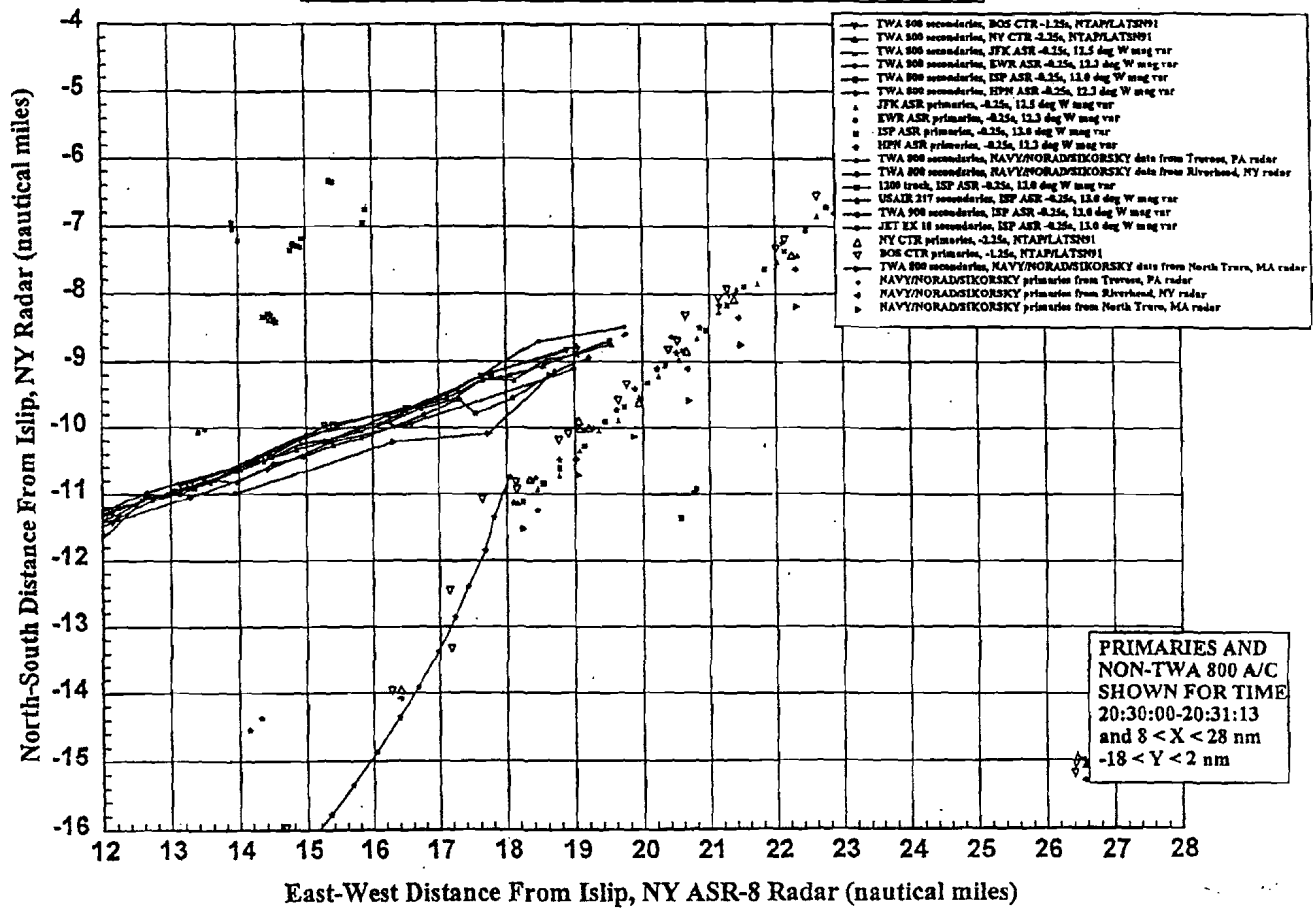
4-2

TWA 747 out of JFK, 7/17/96



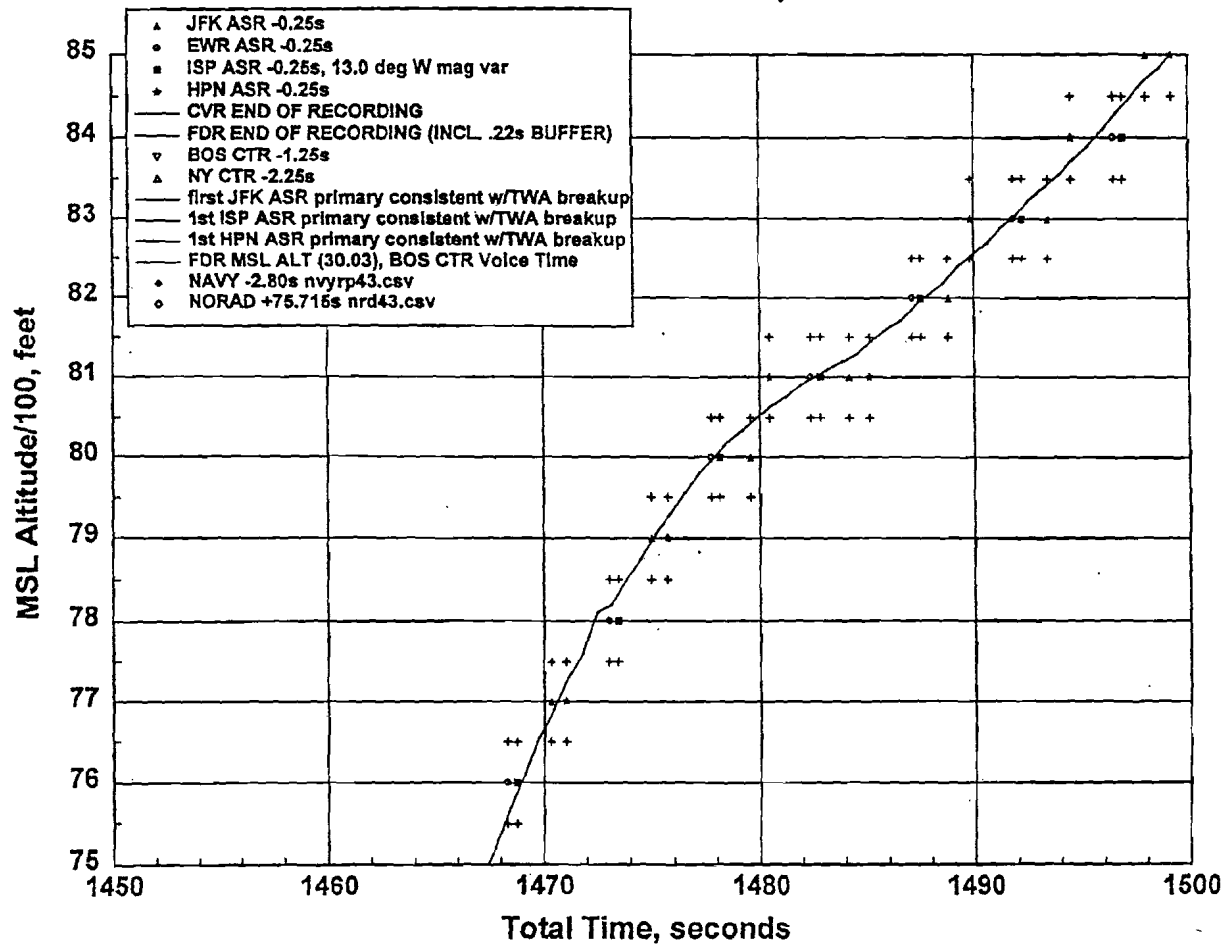
3-6

TWA 747 Out of JFK, July 17, 1996
Radar Data Overhead View Up To Last Secondary



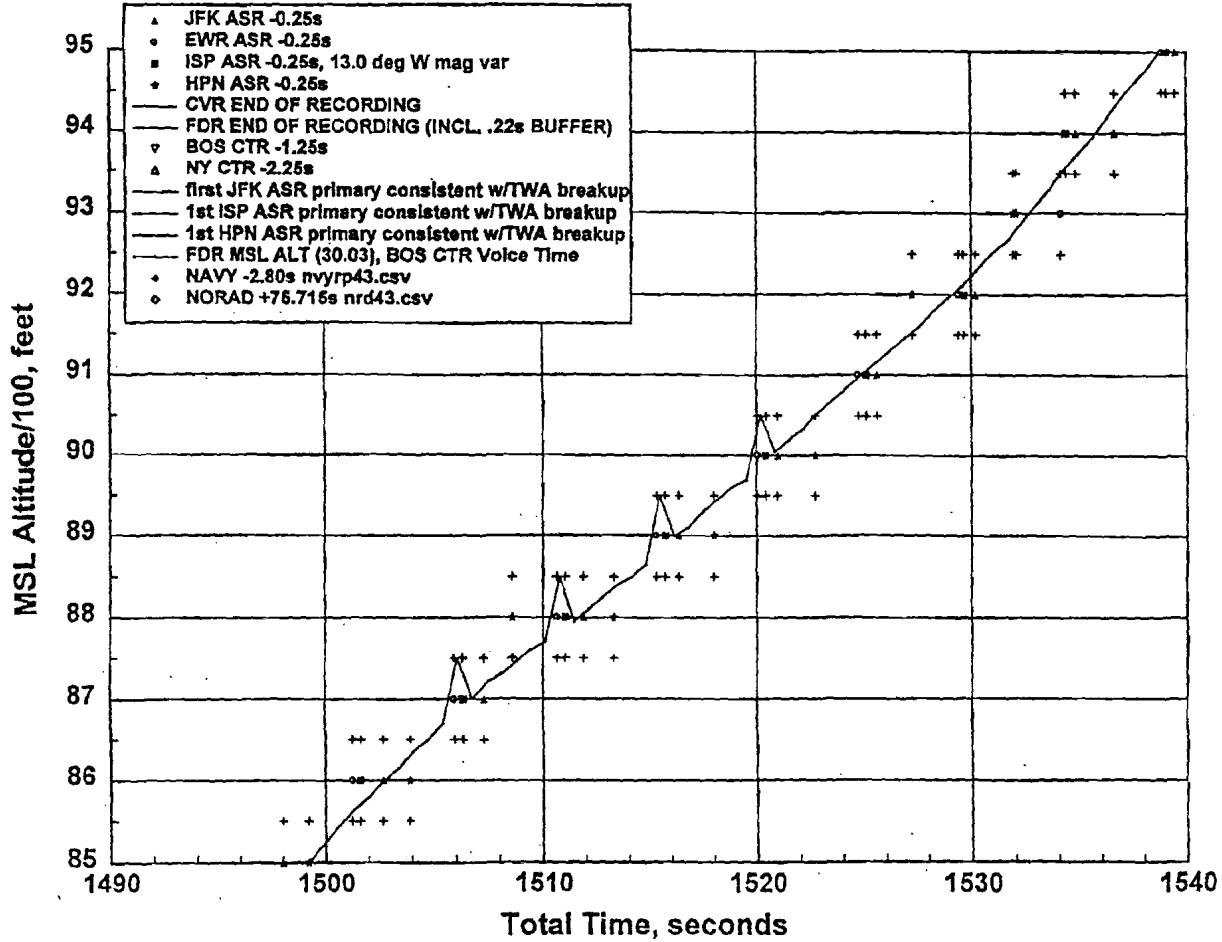
4-1

TWA 747 out of JFK, 7/17/96



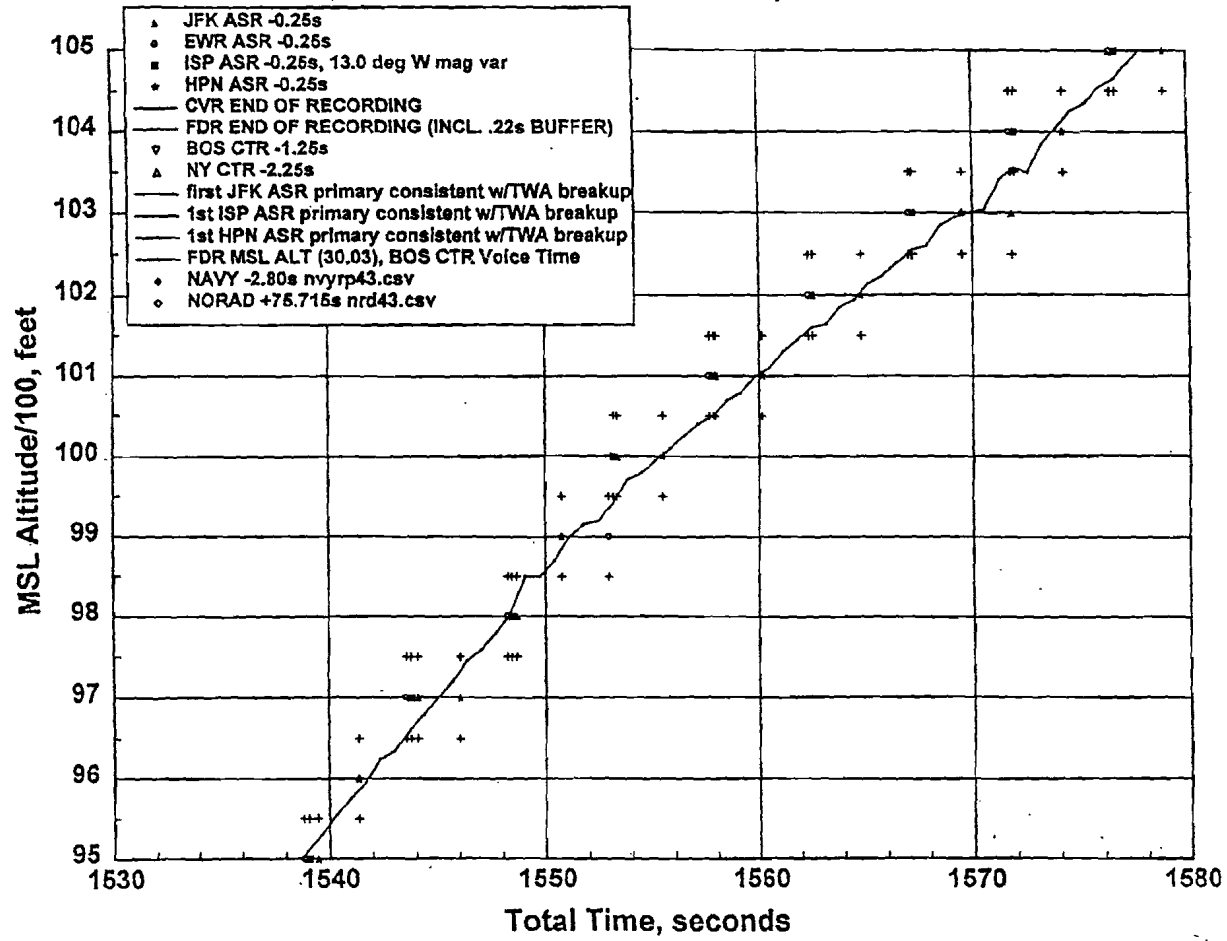
3-16

TWA 747 out of JFK, 7/17/96



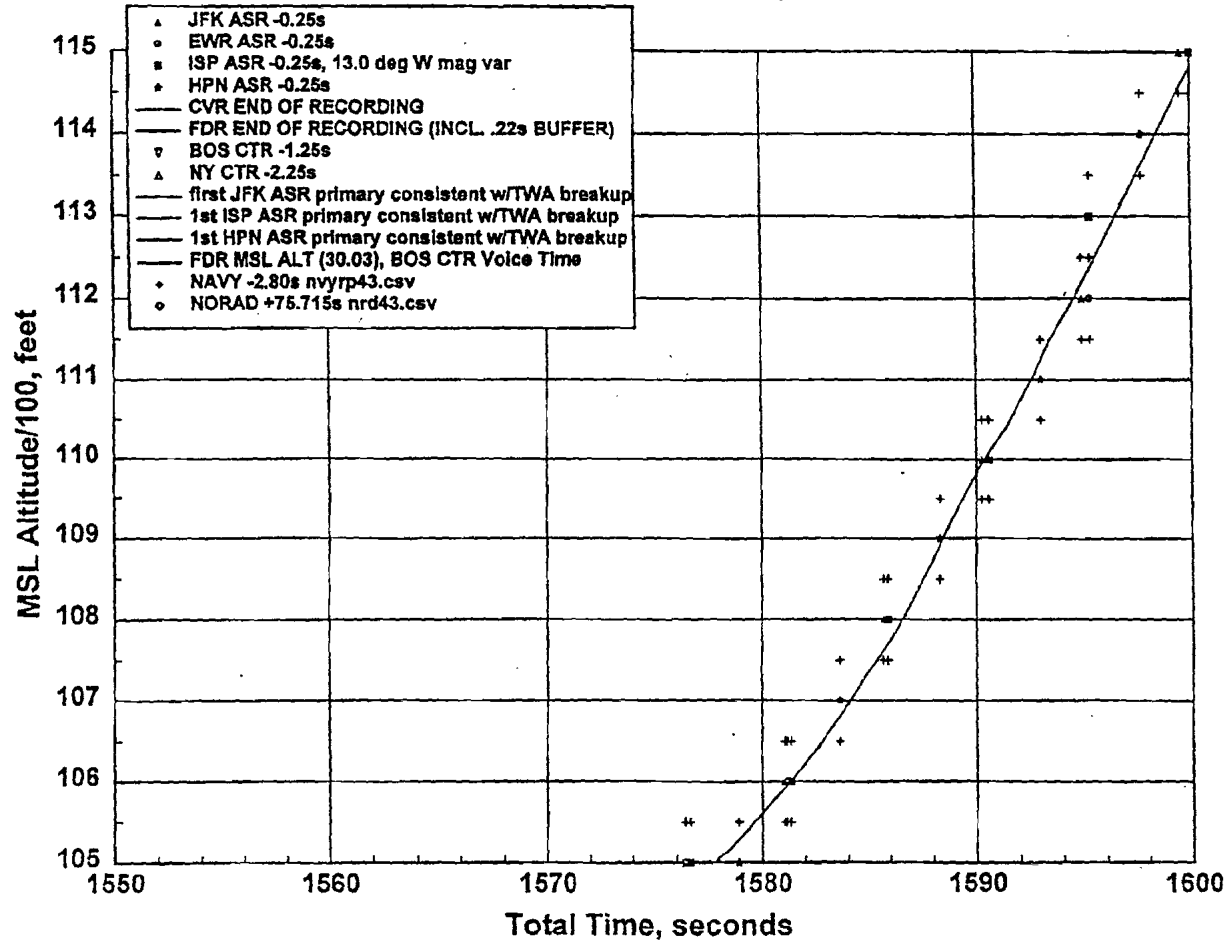
3-17

TWA 747 out of JFK, 7/17/96



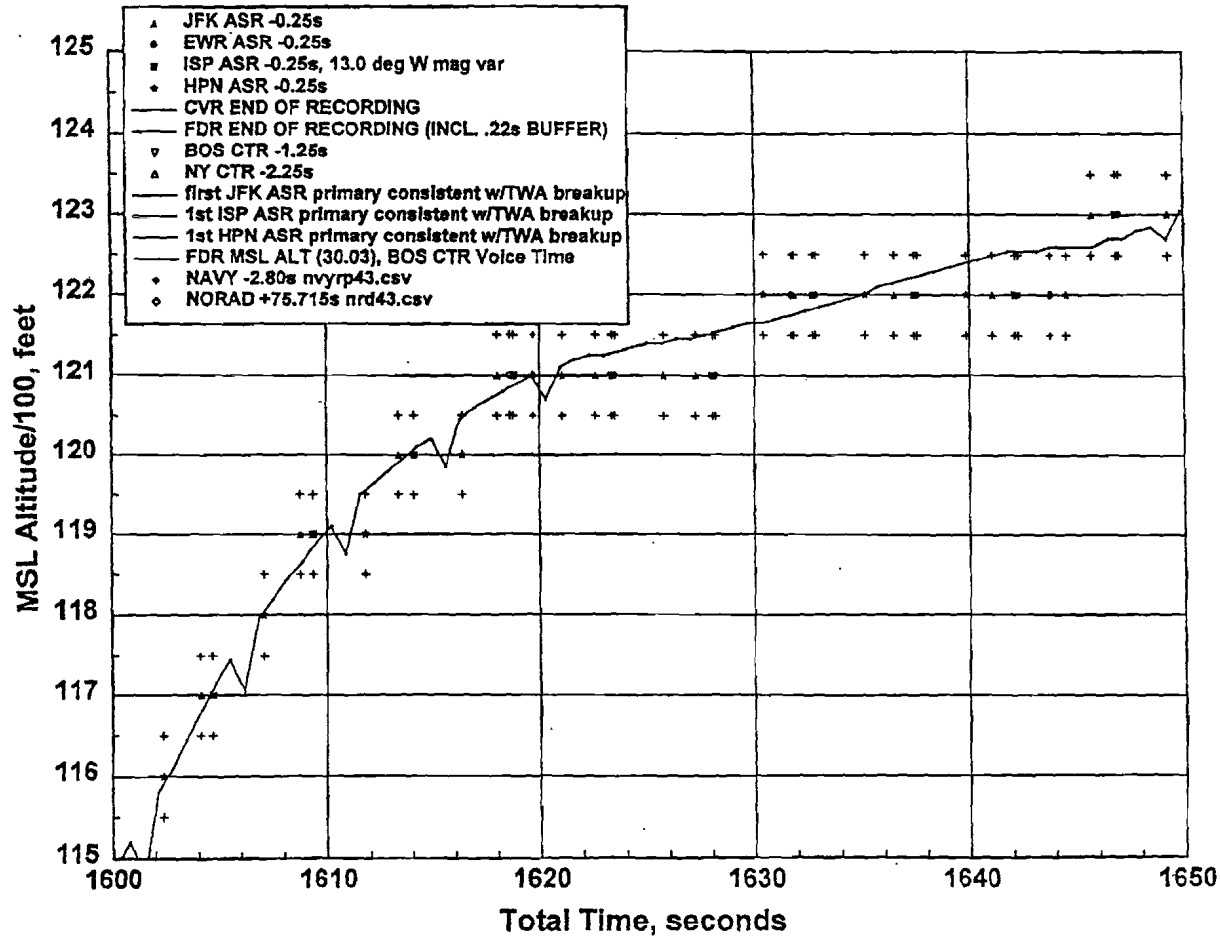
3-18

TWA 747 out of JFK, 7/17/96



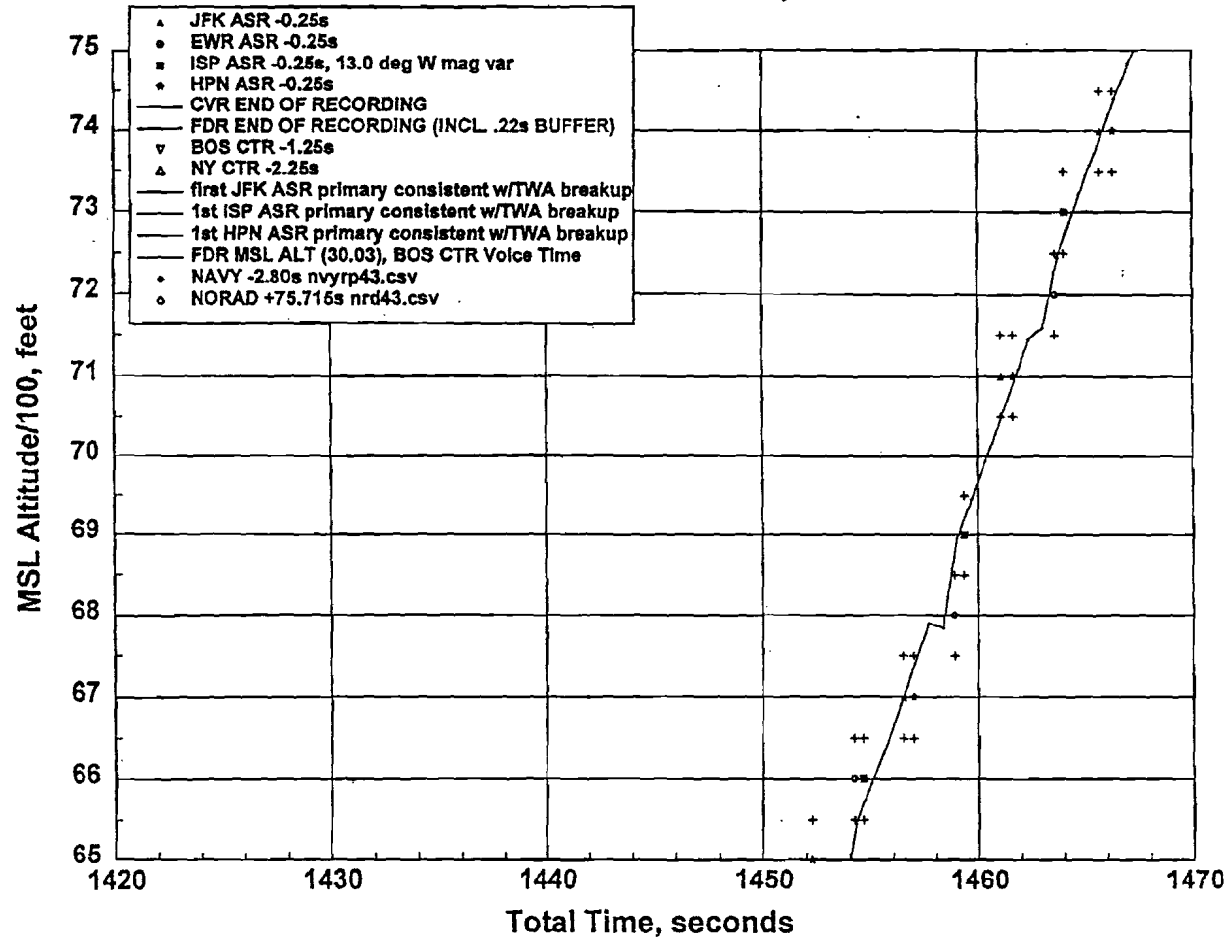
3-19

TWA 747 out of JFK, 7/17/96



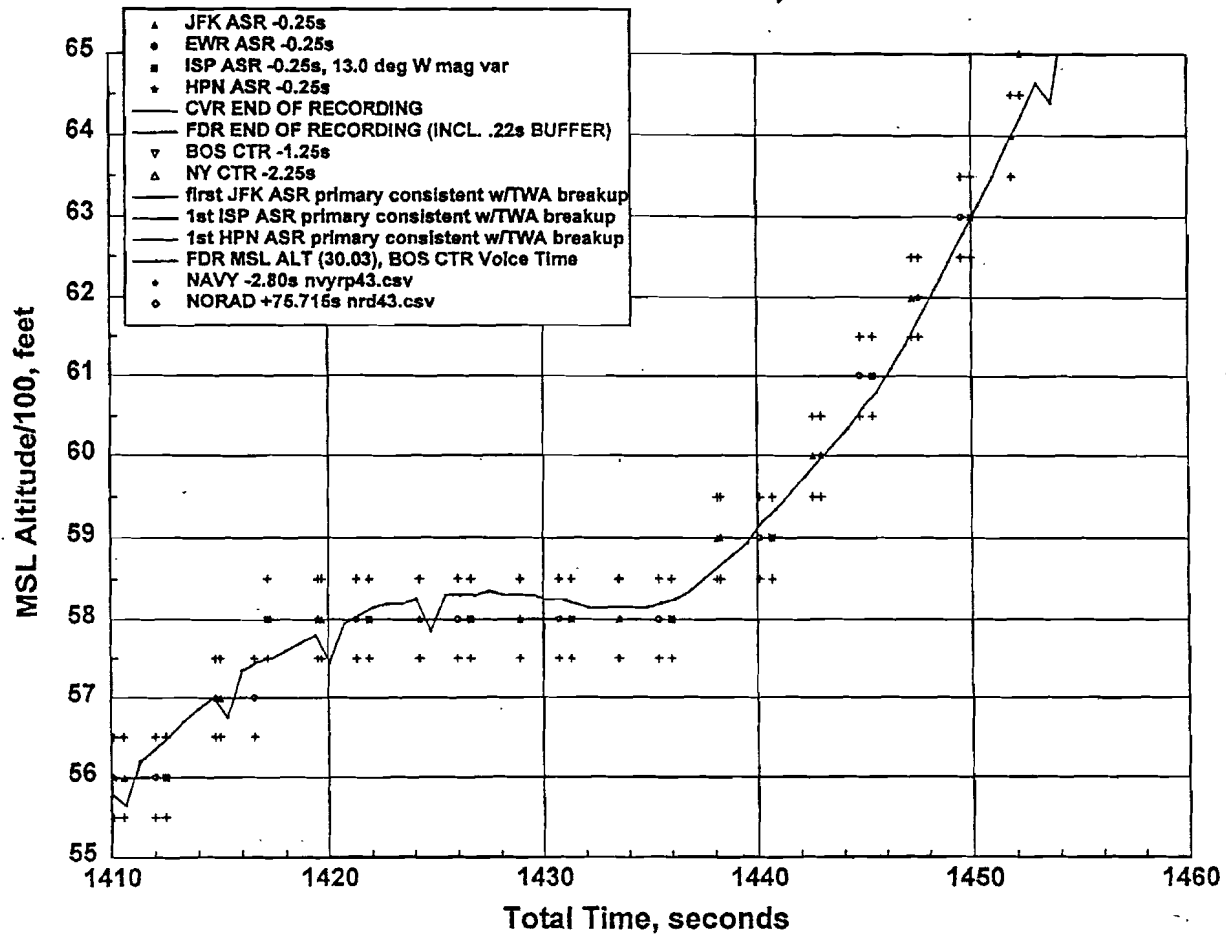
3-20

TWA 747 out of JFK, 7/17/96



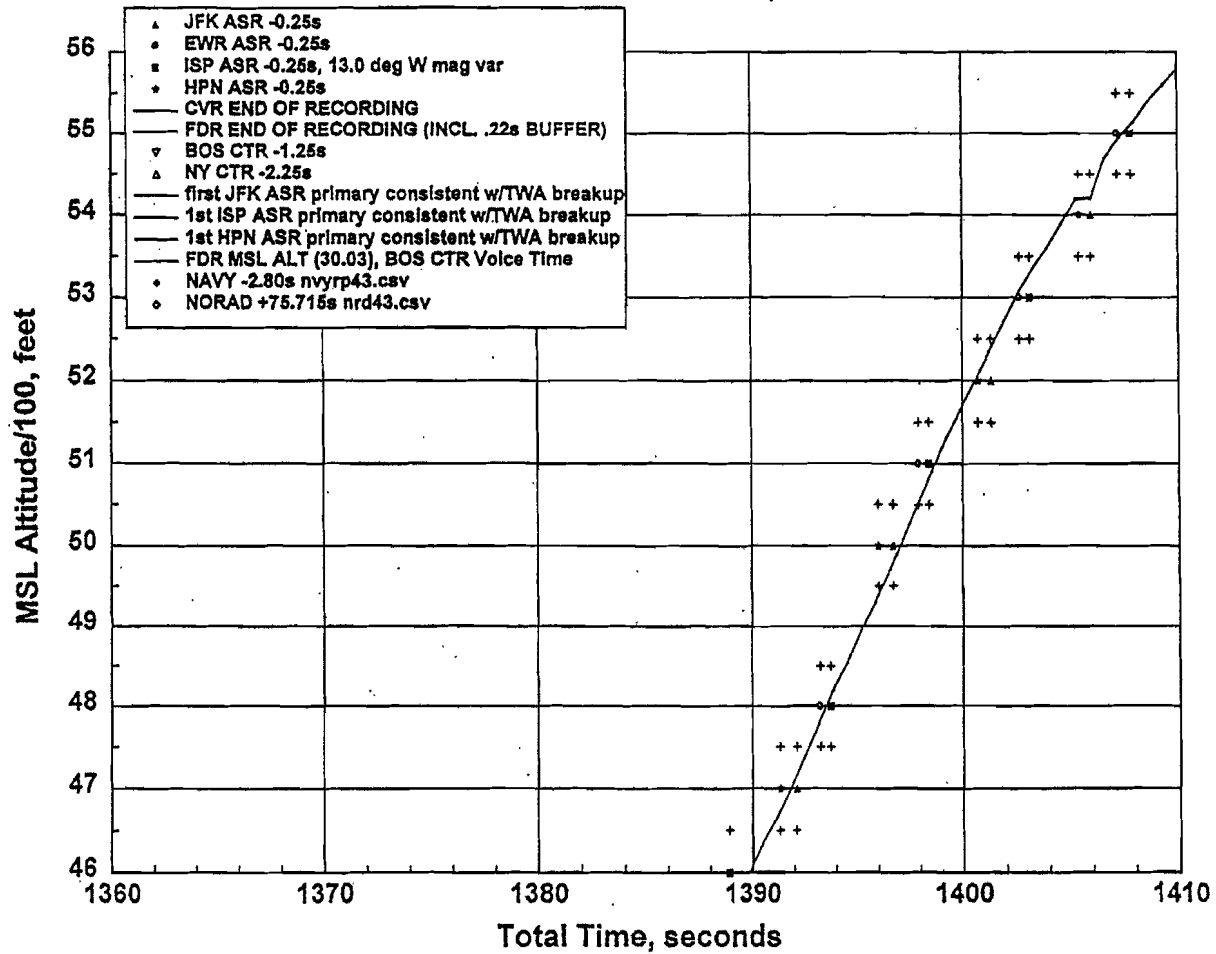
3-15

TWA 747 out of JFK, 7/17/96



3-14

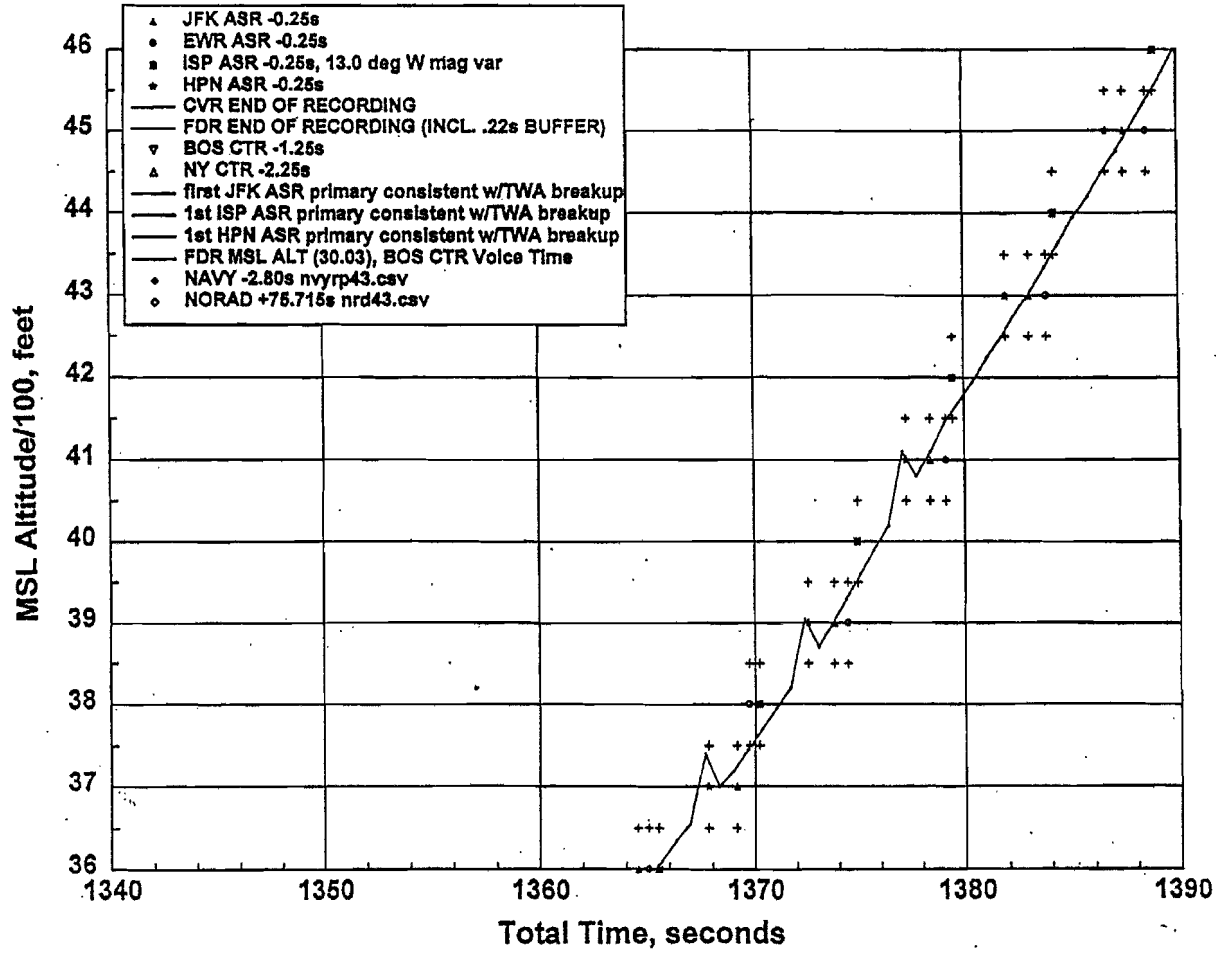
TWA 747 out of JFK, 7/17/96



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3-13

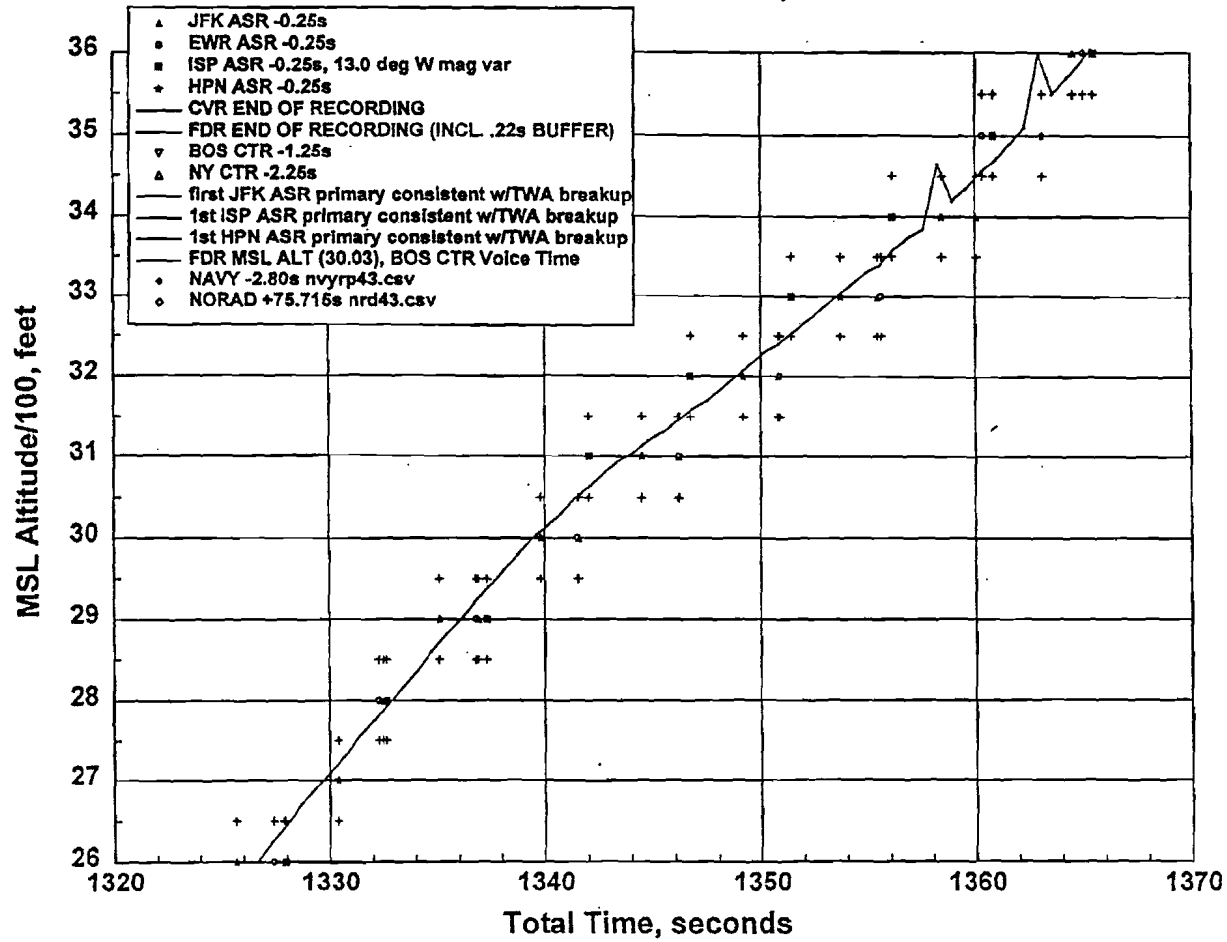
TWA 747 out of JFK, 7/17/96



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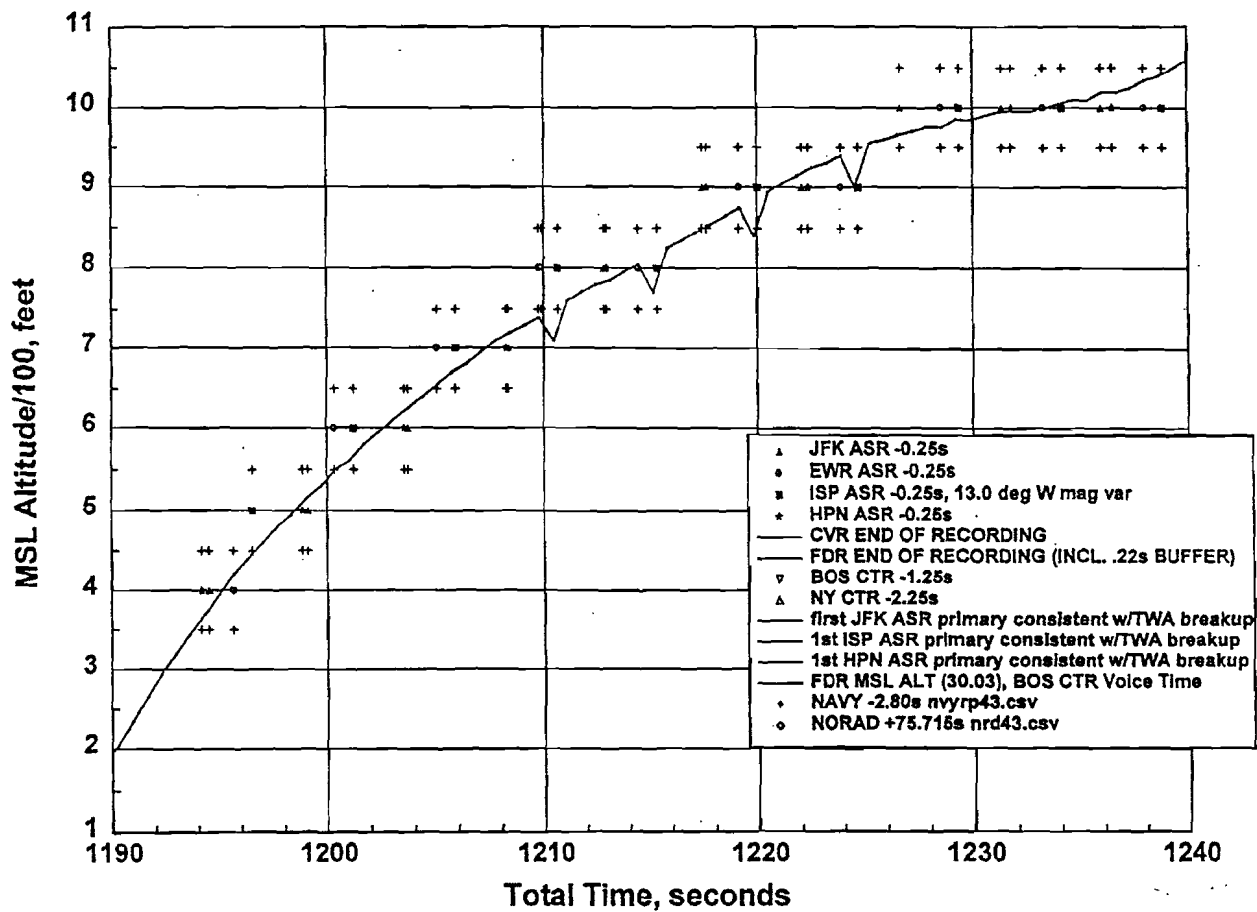
3-12

TWA 747 out of JFK, 7/17/96



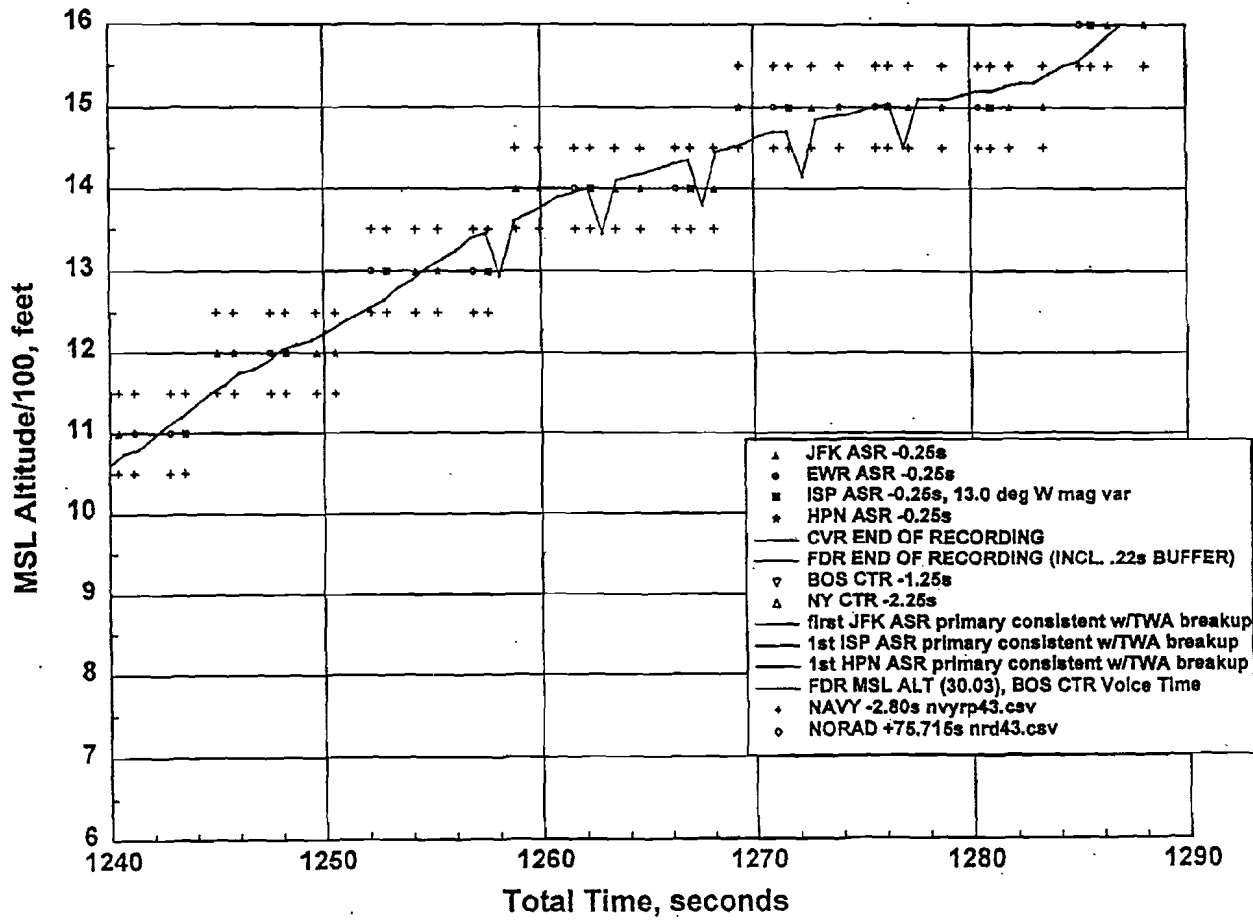
3-11

TWA 747 out of JFK, 7/17/96



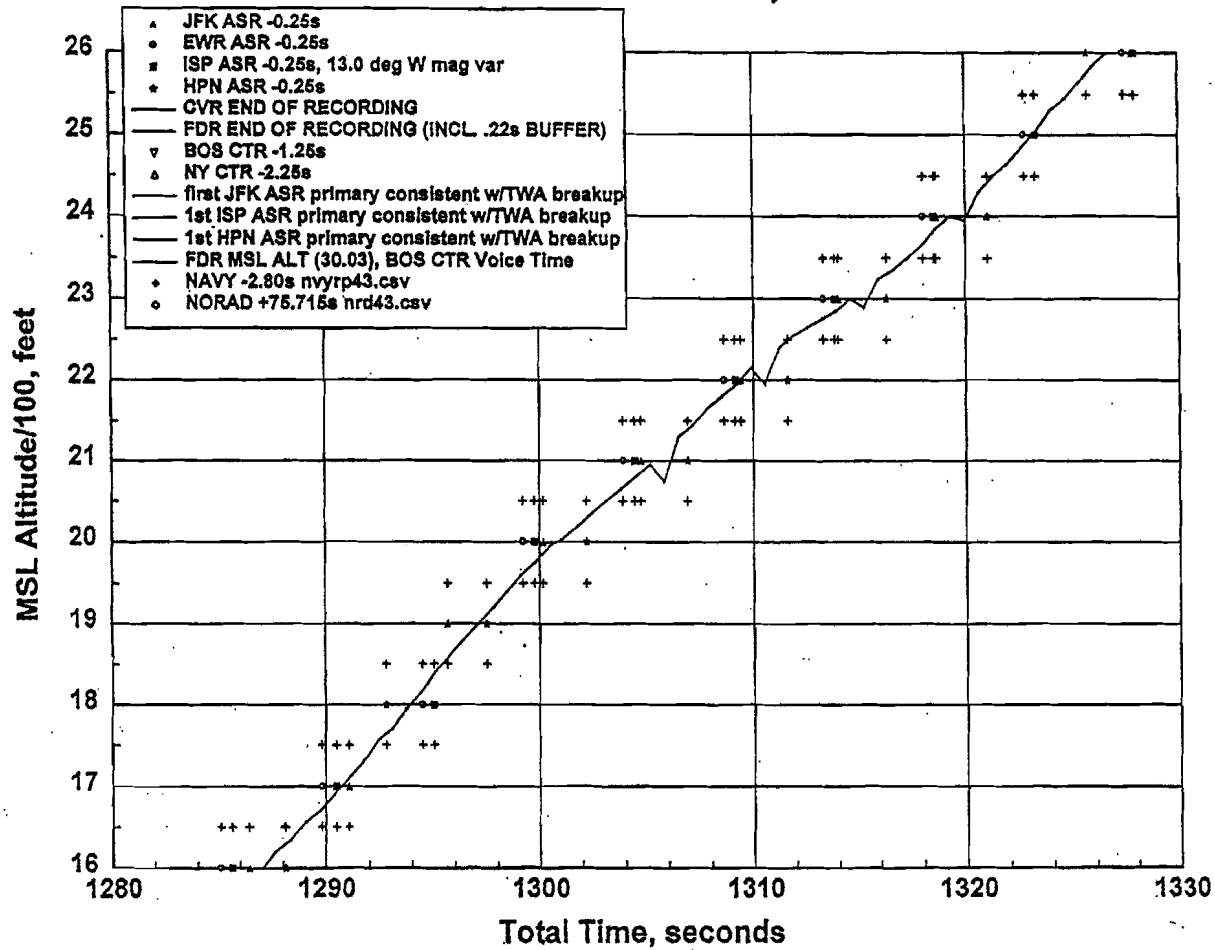
3-8

TWA 747 out of JFK, 7/17/96



3-9

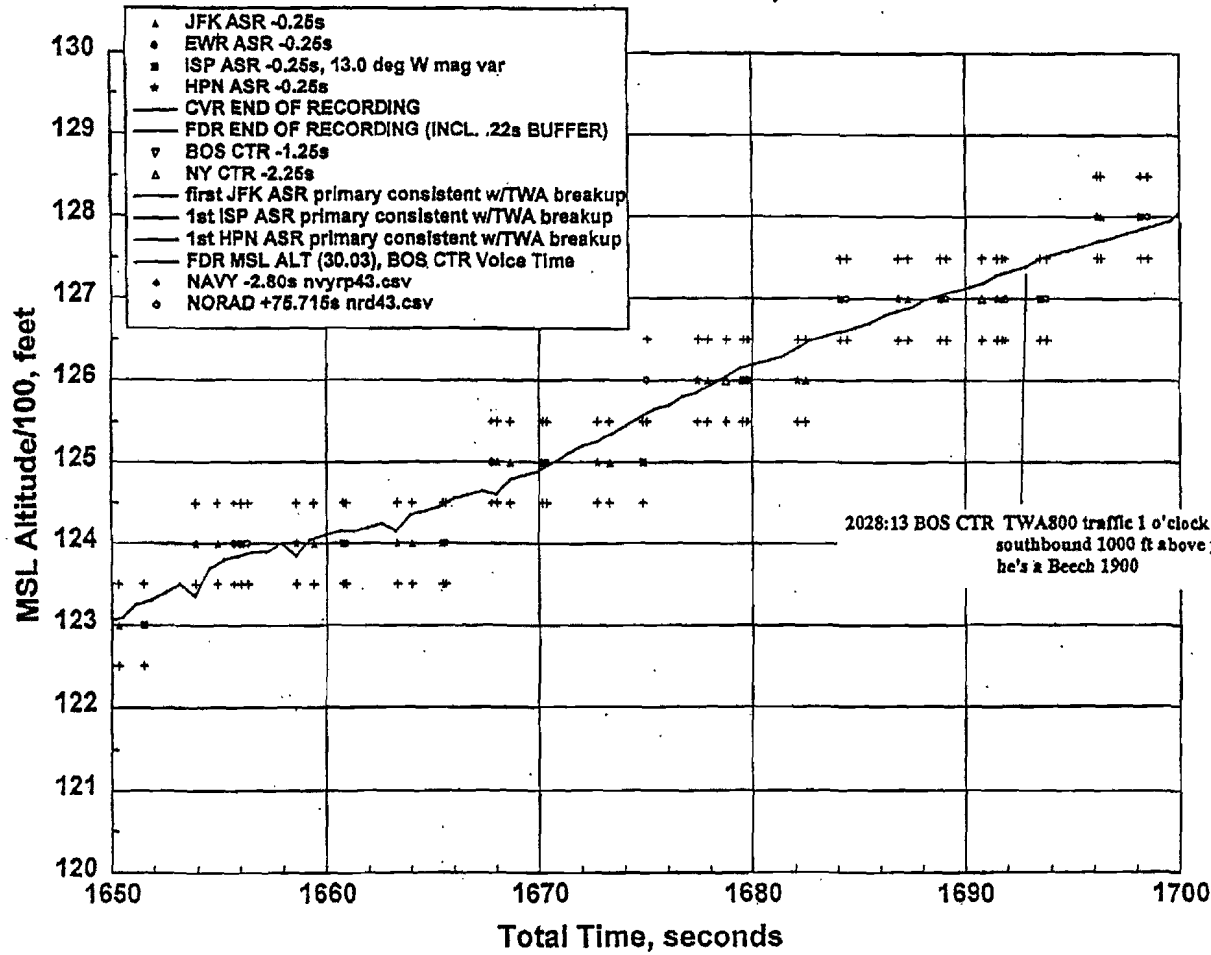
TWA 747 out of JFK, 7/17/96



L9

3-10

TWA 747 out of JFK, 7/17/96



3-2

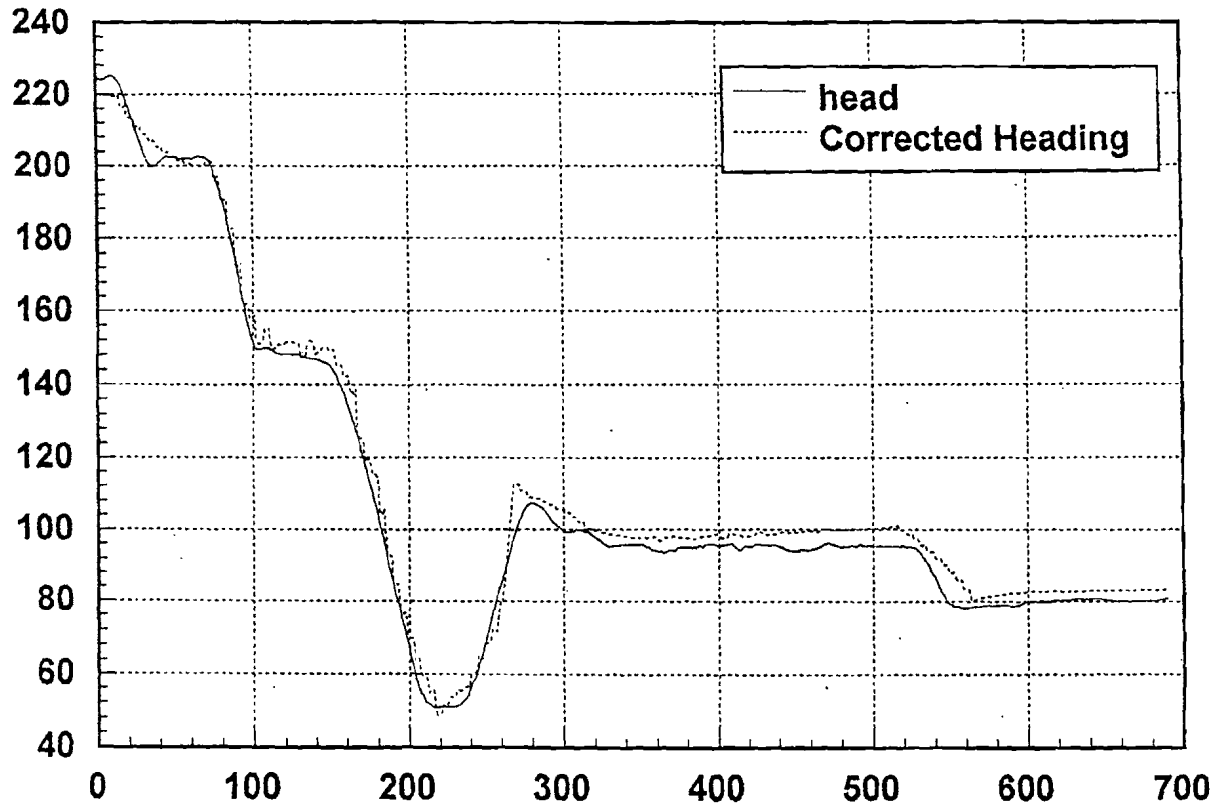
SEVEN

NTSB Record 35

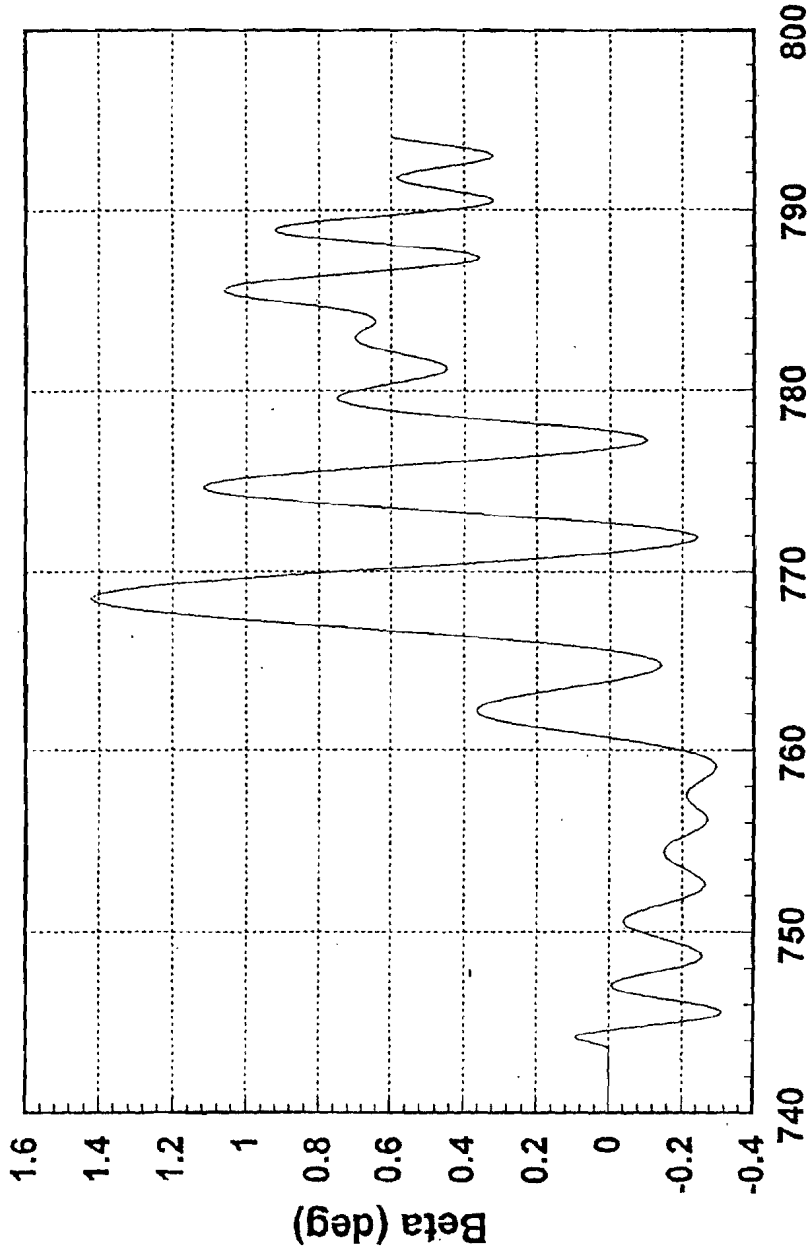
— 10 graphic representations of NTSB TWA flight 800 Main Wreckage Simulation

TWA ^00

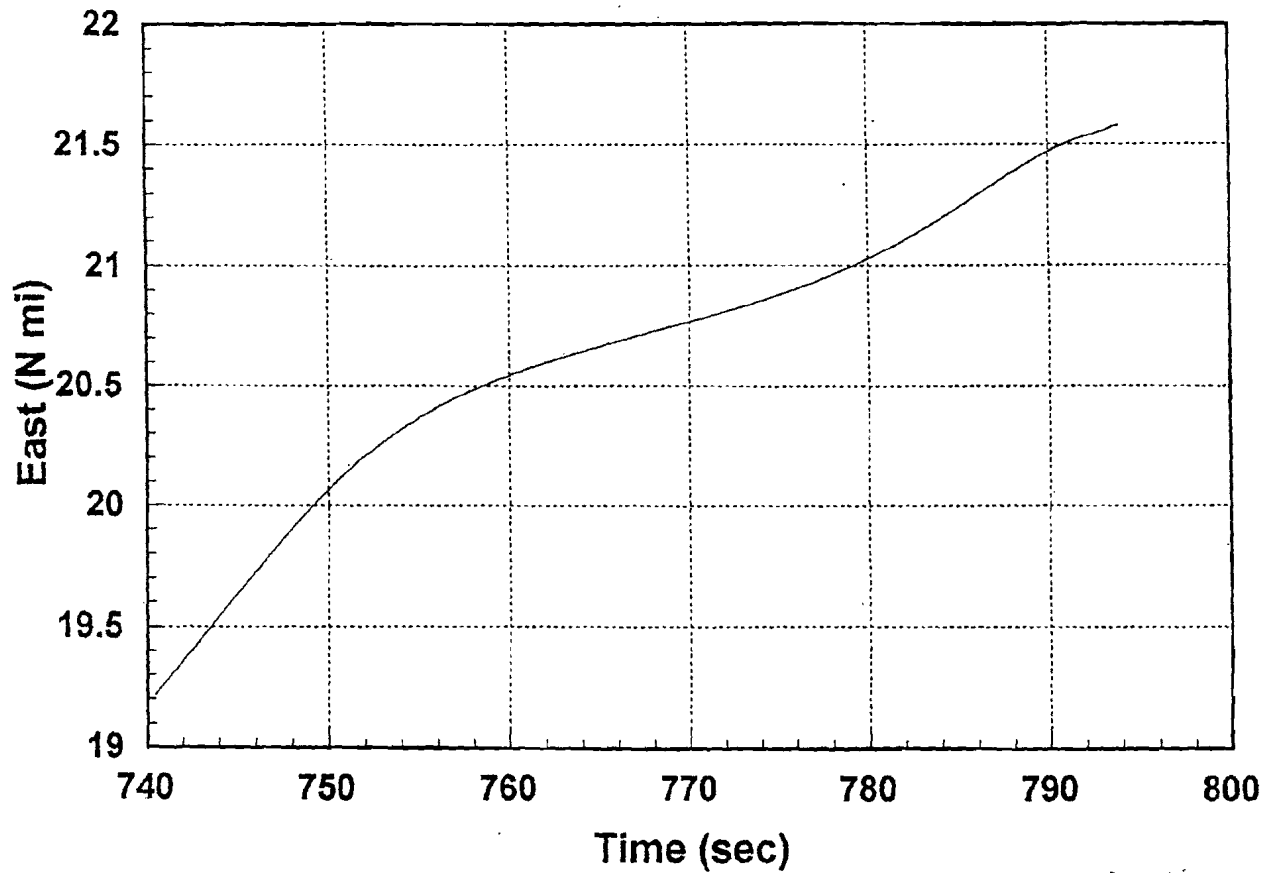
FDR Heading vs. Corrected Heading



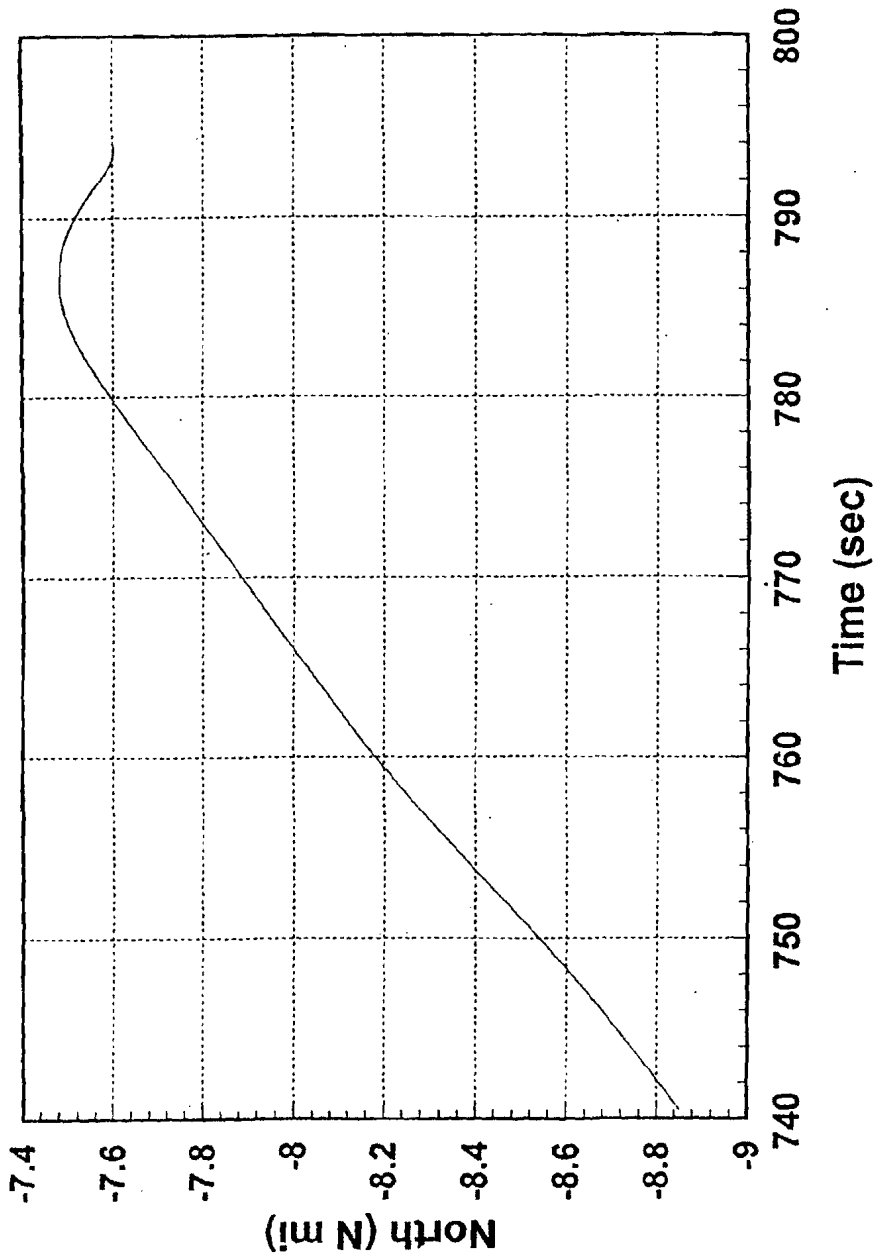
TWA 870 Main Wreckage Simulation



TWA 800 Main Wreckage Simulation

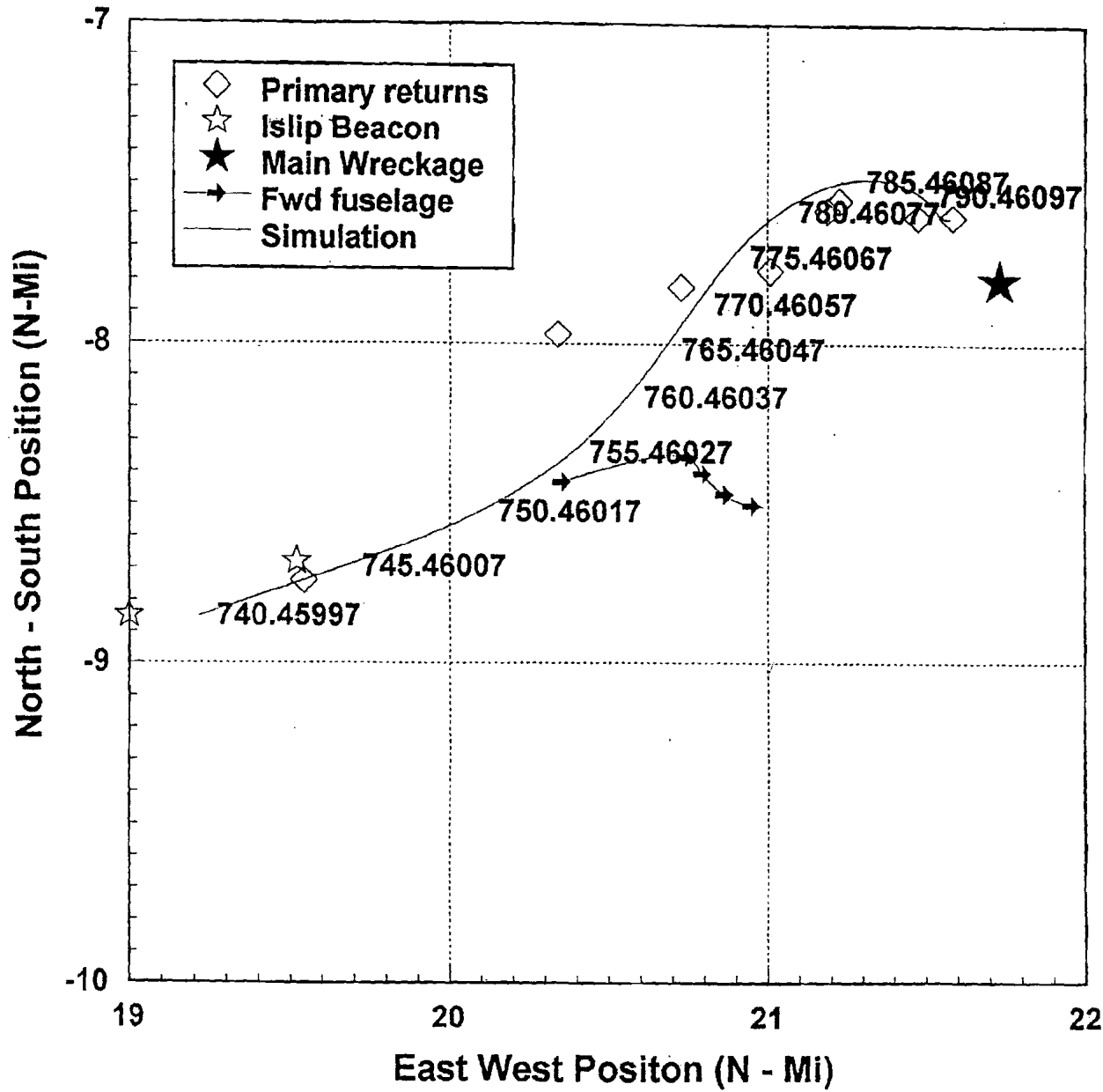


TWA 870 Main Wreckage Simulation

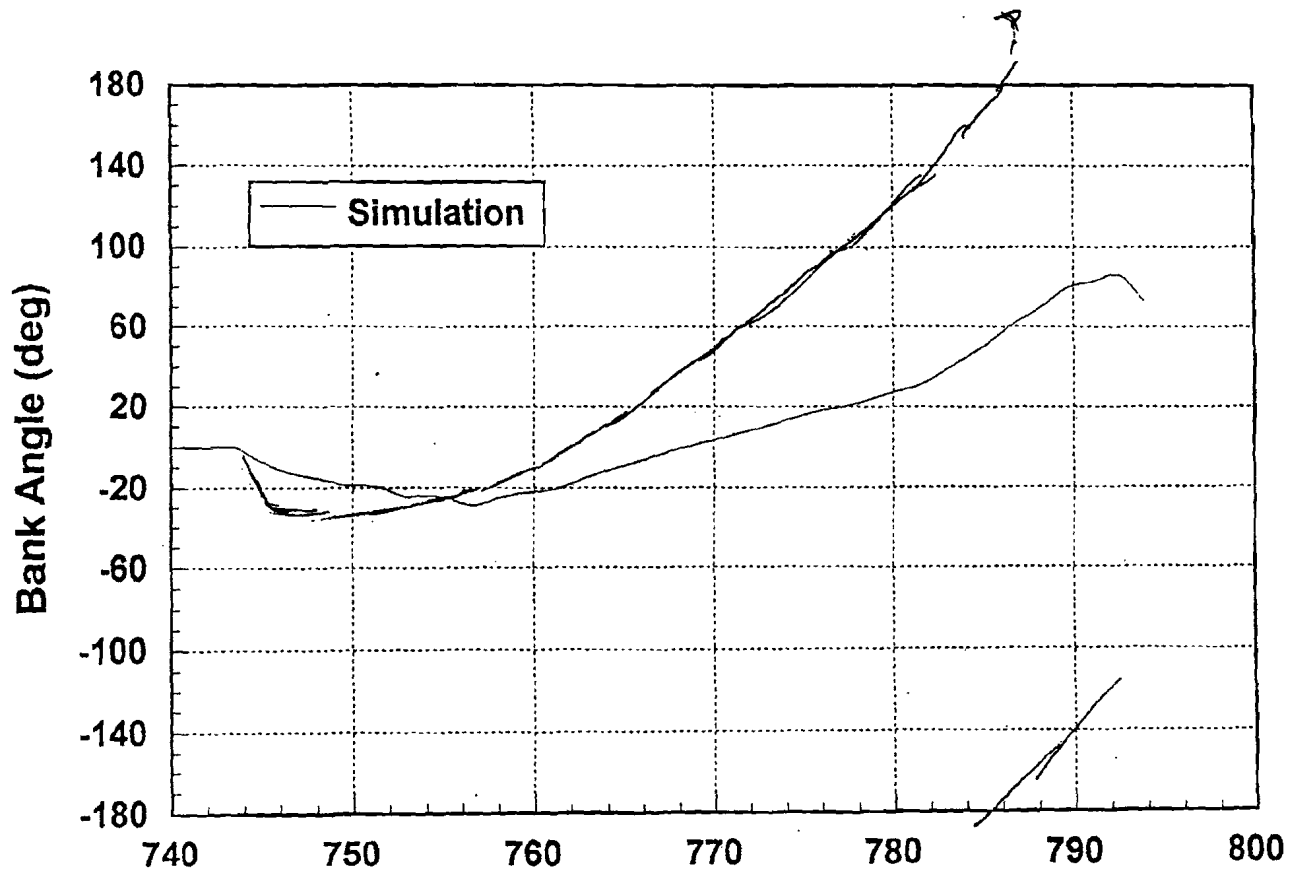


TWA 000

Main Wreckage Simulation

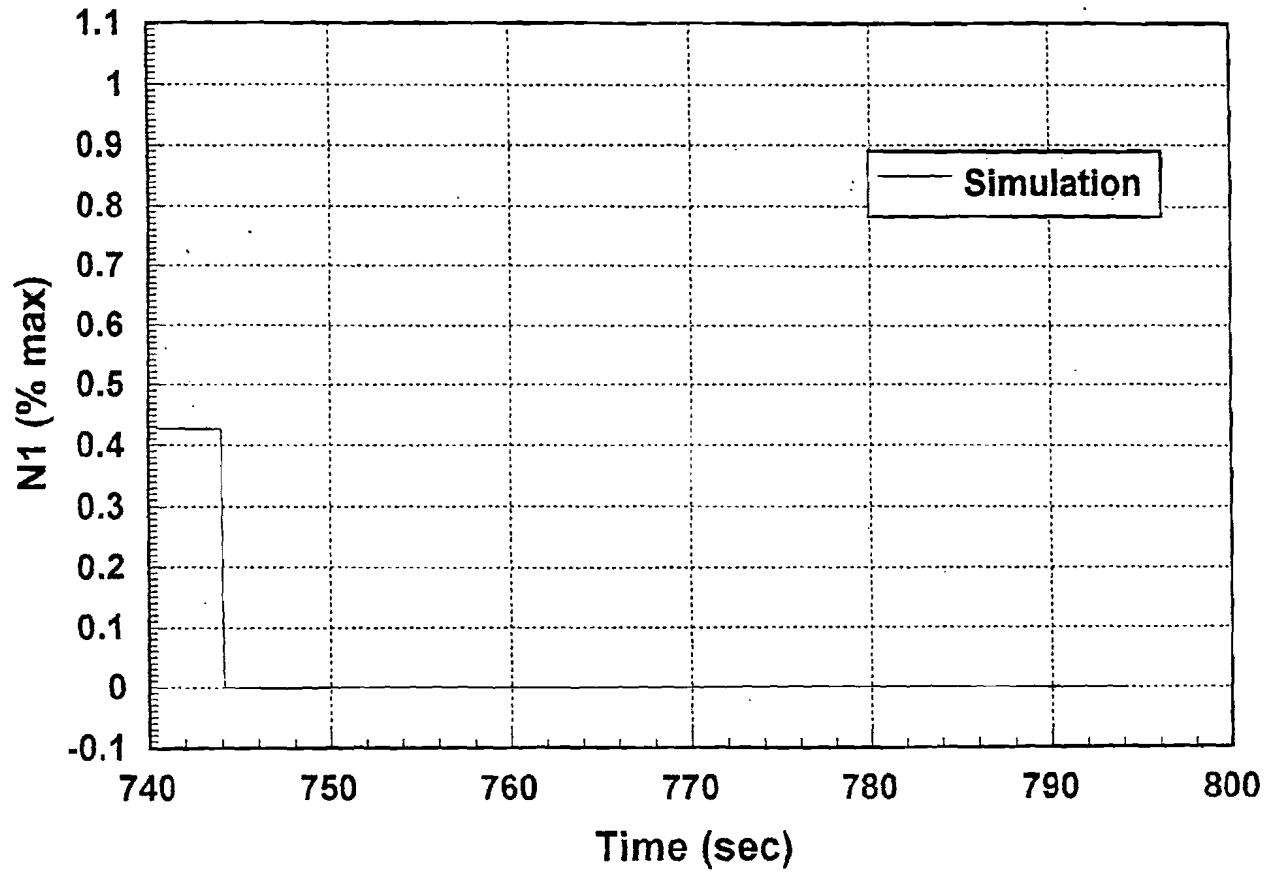


TWA 800 Main Wreckage Simulation



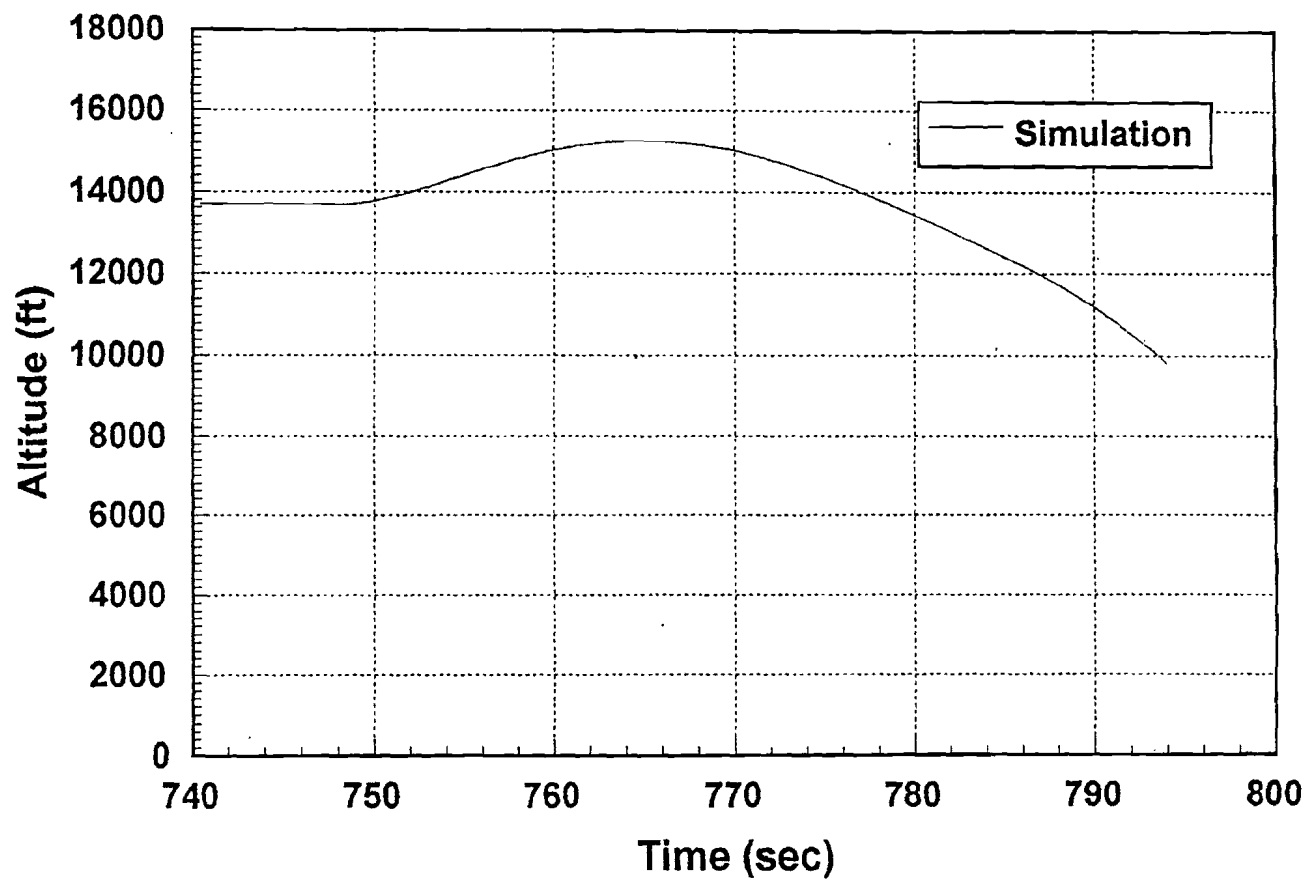
TWA ()0

Main Wreckage Simulation



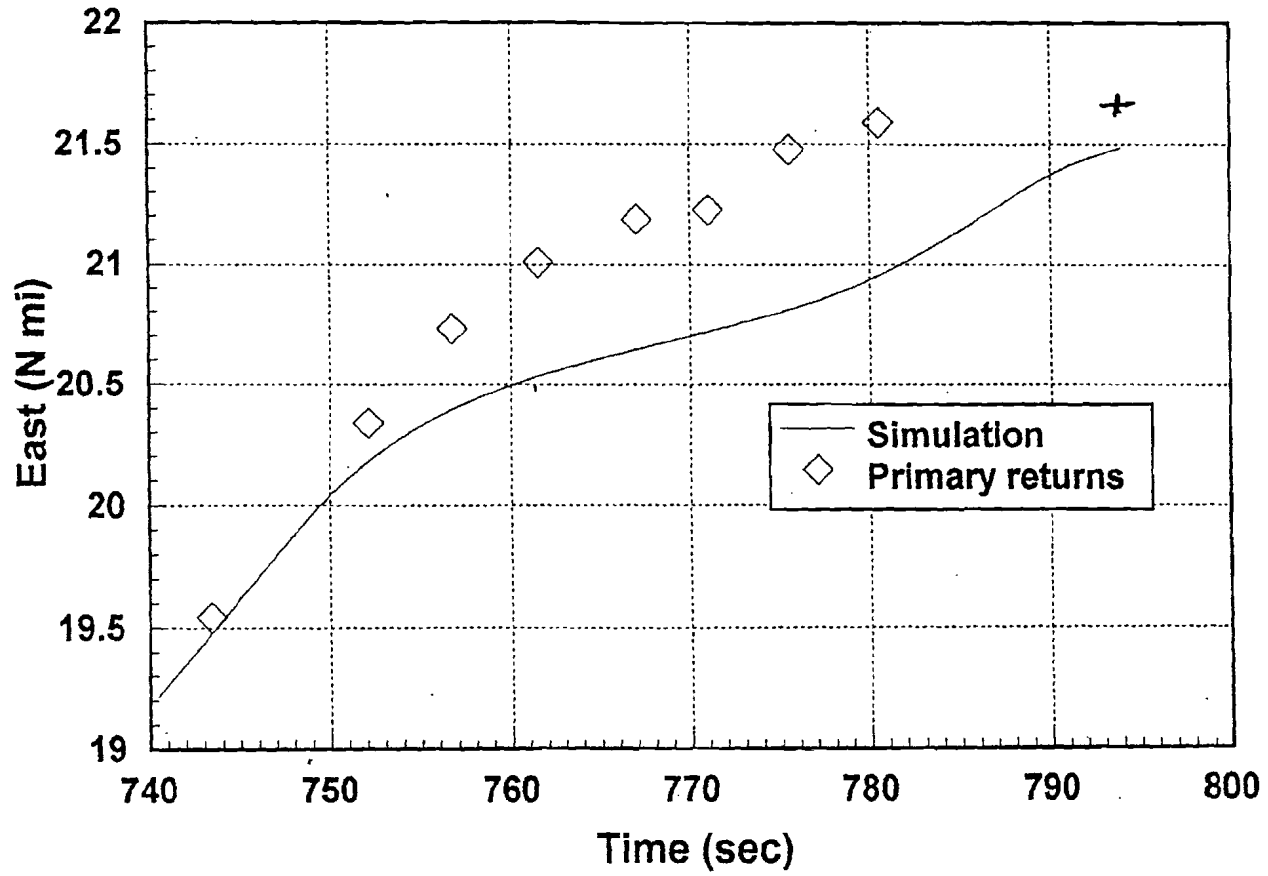
TWA 000

Main Wreckage Simulation

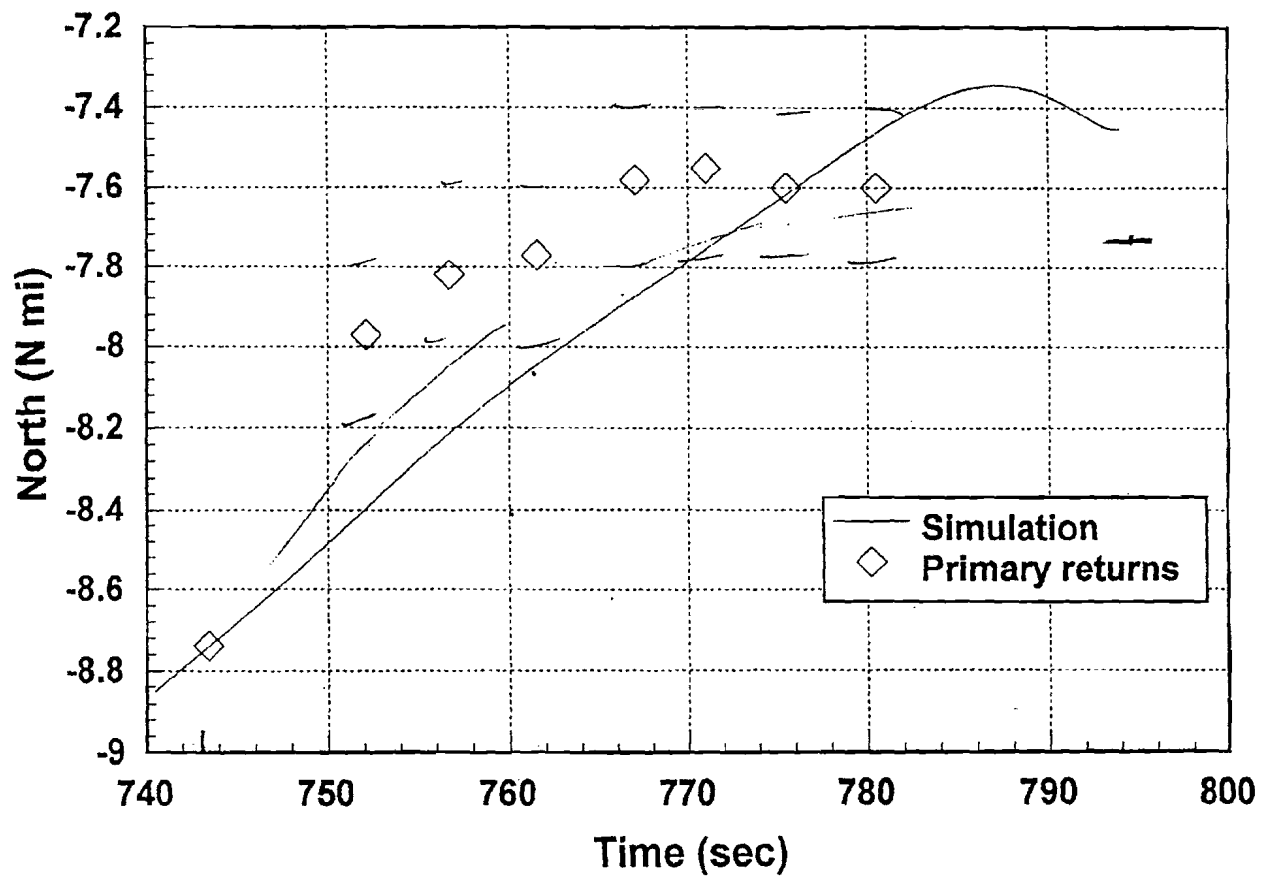


TWA 000

Main Wreckage Simulation



TWA 870 Main Wreckage Simulation



EIGHT
NTSB Record 36
—62 pages of charts of segments of radar data

53

- HPN ASR PRIMARIES, 12.3° W MAG VAR
- B < X < Z 8 NM, -18 < Y < Z NM
- X/Y RELATIVE TO IASP ASR

SENS3. XYZ

HOURS	MINUTES	SECONDS	Y, NM	X, NM	SENSOR	MIN * 60 + SEC - 0.25
0	26	9.33	12.3724	-9.6156	3	1569.08
0	26	14.02	12.4513	-9.4918	3	1573.77
0	26	14.17	11.8052	-16.741	3	1573.92
0	26	23.57	9.4129	-13.3391	3	1583.32
0	26	23.57	15.9263	-15.6319	3	1583.32
0	26	32.81	12.4994	-4.1909	3	1592.56
0	26	42.2	12.5557	-4.2192	3	1601.95
0	26	46.89	12.4717	-4.4886	3	1606.64
0	26	56.31	14.7348	-2.5217	3	1616.06
0	27	1	14.6483	-2.7179	3	1620.75
0	27	1.15	11.9108	-16.9317	3	1620.9
0	27	10.39	12.6913	-4.3657	3	1630.14
0	27	24.49	14.8202	-2.481	3	1644.24
0	27	29.19	10.3265	-2.8776	3	1648.94
0	27	47.98	12.8652	-4.6109	3	1667.73
0	28	1.92	20.882	0.6026	3	1681.67
0	28	2.21	12.2049	-16.9685	3	1681.96
0	28	6.76	13.9651	-8.0822	3	1686.51
0	28	6.91	12.154	-17.03	3	1686.66
0	28	11.31	20.9979	0.8133	3	1691.06
0	28	11.46	12.8862	-9.9443	3	1691.21
0	28	11.61	12.2412	-16.9984	3	1691.36
0	28	20.85	14.935	-2.4529	3	1700.6
0	28	25.71	12.3785	-16.9056	3	1705.46
0	28	44.35	13.2676	-4.5776	3	1724.1
0	28	48.9	21.227	0.6586	3	1728.65
0	28	49.19	12.1573	-17.345	3	1728.94
0	28	53.59	17.4795	-1.0449	3	1733.34
0	28	58.3	17.532	-0.9055	3	1738.05
0	29	3.13	10.0245	0.092	3	1742.88
0	29	7.82	15.0063	-2.5622	3	1747.57
0	29	7.68	17.5234	-1.0615	3	1747.43
0	29	7.97	13.0161	-10.2048	3	1747.72
0	29	12.37	17.5938	-1.0084	3	1752.12
0	29	31.31	10.7884	-3.1075	3	1771.06
0	29	31.46	13.9198	-14.2748	3	1771.21
0	29	40.69	10.9179	-2.9495	3	1780.44
0	29	50.25	9.5361	-13.4365	3	1790
0	29	54.8	10.8717	-3.149	3	1794.55
0	29	54.8	15.0924	-2.5998	3	1794.55
0	29	59.5	15.0924	-2.5998	3	1799.25
0	30	8.87	15.1355	-2.6185	3	1808.62
0	30	18.28	21.3861	-8.0056	3	1818.03
0	30	22.98	21.1489	-8.1702	3	1822.73
0	30	27.67	20.863	-8.4954	3	1827.42
0	30	27.52	21.8777	0.5375	3	1827.27
0	30	32.36	20.5096	-8.8793	3	1832.11
0	30	37.22	14.1501	-14.5411	3	1836.97
0	30	37.08	20.2173	-9.1027	3	1836.83
0	30	41.77	19.8836	-9.3972	3	1841.52
0	30	46.61	14.3291	-14.3747	3	1846.36
0	30	46.46	19.6049	-9.718	3	1846.21
0	30	51.15	19.2677	-10.0057	3	1850.9
0	30	55.7	18.1369	-1.2939	3	1855.45
0	30	55.7	19.7464	1.6854	3	1855.45
0	30	55.85	18.448	-11.2499	3	1855.6
0	31	0.55	18.7671	-10.4815	3	1860.3
0	31	5.25	18.4269	-10.7597	3	1865
0	31	9.94	18.0962	-11.1373	3	1869.69 X
0	31	14.64	17.7502	-11.5025	3	1874.39
0	31	14.64	19.594	-8.7756	3	1874.39
0	31	24.04	20.797	-7.7169	3	1883.79
0	31	24.04	17.1523	-11.9973	3	1883.79
0	31	24.04	13.6109	-10.3183	3	1883.79
0	31	24.04	19.4841	-9.1837	3	1883.79
0	31	28.75	20.9738	-7.7106	3	1888.5
0	31	28.87	16.235	-13.2455	3	1888.62
0	31	28.87	13.487	10.5981	3	1888.62
0	31	28.75	19.1684	-9.6679	3	1888.5

1/12/93

SEN3

0	31	28.75	19.7022	-9.2063	3	1888.5
0	31	33.44	21.1818	-7.5339	3	1893.19
0	31	33.29	18.4069	-1.1527	3	1893.04
0	31	33.44	16.6808	-12.2759	3	1893.19
0	31	33.44	19.2493	-9.6182	3	1893.19
0	31	33.44	19.6201	-9.1626	3	1893.19
0	31	33.44	20.0512	-8.6423	3	1893.19
0	31	38.13	21.2604	-7.4789	3	1897.88
0	31	38.28	16.1613	-12.9043	3	1898.03
0	31	38.13	19.3281	-9.4733	3	1897.88
0	31	38.13	19.9714	-8.6942	3	1897.88
0	31	38.13	20.1898	-8.7139	3	1897.88
0	31	42.83	20.7566	-8.2555	3	1902.58
0	31	42.83	21.1938	-7.7247	3	1902.58
0	31	42.83	21.4527	-7.2921	3	1902.58
0	31	42.68	11.0503	1.3905	3	1902.43
0	31	42.68	18.3876	-1.4702	3	1902.43
0	31	42.97	15.8914	-13.1137	3	1902.72
0	31	42.83	19.3695	-9.4957	3	1902.58
0	31	47.52	11.3036	-3.4391	3	1907.27
0	31	47.52	21.4858	-7.5872	3	1907.27
0	31	47.52	21.2664	-7.5748	3	1907.27
0	31	47.37	11.0487	1.2542	3	1907.12
0	31	47.67	15.6335	-13.3286	3	1907.42
0	31	47.52	19.6032	-9.0601	3	1907.27
0	31	52.22	20.4911	-8.1223	3	1911.97
0	31	52.22	21.23	-7.6502	3	1911.97
0	31	52.07	11.0926	1.2375	3	1911.82
0	31	52.37	9.9283	-13.7465	3	1912.12
0	31	52.37	15.3162	-13.6	3	1912.12
0	31	52.22	19.4642	-9.4531	3	1911.97
0	31	52.22	20.0435	-8.452	3	1911.97
0	31	56.77	18.3651	-1.705	3	1916.52
0	31	57.06	15.0101	-13.8762	3	1916.81
0	32	1.78	14.6422	-14.2062	3	1921.53
0	32	6.47	14.3712	-14.5041	3	1926.22
0	32	11.16	14.0935	-14.6979	3	1930.91
0	32	15.85	13.8184	-14.9905	3	1935.6
0	32	15.71	19.6995	-9.1112	3	1935.46
0	32	20.58	13.4563	-15.3163	3	1940.33
0	32	25.26	13.1764	-15.604	3	1945.01
0	32	25.26	13.0635	-12.0491	3	1945.01
0	32	25.12	19.7022	-9.2063	3	1944.87
0	32	29.95	12.8946	-15.7871	3	1949.7
0	32	34.52	19.7046	-9.3015	3	1954.27
0	32	34.67	12.5619	-16.1322	3	1954.42
0	32	39.36	12.2787	-16.3108	3	1959.11
0	32	43.77	18.7774	-1.4547	3	1963.52
0	32	44.06	12.0423	-16.5271	3	1963.81
0	32	53.44	11.3663	-17.0953	3	1973.19
0	32	58.01	8.9874	-1.2333	3	1977.76
0	32	58.16	10.7811	-17.6315	3	1977.91
0	33	2.85	10.5383	-17.8366	3	1982.6
0	33	16.93	8.0112	-7.6089	3	1996.68
0	33	30.74	19.0281	-1.6315	3	2010.49
0	33	30.89	20.2968	-9.0501	3	2010.64
0	33	40.27	9.1173	-1.4336	3	2020.02
0	33	58.93	20.2462	1.2922	3	2038.68
0	34	8.47	15.8624	-3.2561	3	2048.22
0	34	8.32	20.2462	1.2922	3	2048.07
0	34	13.17	9.3277	-1.4635	3	2052.92
0	34	31.81	19.3372	-1.8316	3	2071.56
0	34	41.34	19.6236	-10.2031	3	2081.09
0	35	4.86	16.2529	-3.1058	3	2104.61
0	35	23.8	10.6509	-14.3177	3	2123.55
0	36	10.63	11.5741	-2.5262	3	2170.38
0	36	20.03	21.4744	-6.6565	3	2179.78
0	36	24.73	21.4468	-6.8278	3	2184.48
0	36	29.42	16.6383	-3.3552	3	2189.17

SEN3

0	36	34.12	16.591	-3.5792	3	2193.87
0	36	34.12	9.9555	-3.9403	3	2193.87
0	36	38.66	23.9196	1.369	3	2198.41
0	36	43.5	16.591	-3.5792	3	2203.25
0	36	48.05	19.4659	-1.2186	3	2207.8
0	36	52.91	12.493	-4.3433	3	2212.66
0	36	57.6	12.5034	-4.4266	3	2217.35
0	37	11.54	19.5172	-2.2332	3	2231.29
0	37	16.4	19.4471	-2.5413	3	2236.15
0	37	21.1	9.966	-2.1224	3	2240.85
0	37	21.1	19.4042	-2.7766	3	2240.85
0	37	53.99	12.7895	-4.4153	3	2273.74
0	37	58.68	9.9751	-0.0244	3	2278.43
0	38	12.78	10.0787	0.3425	3	2292.53
0	38	36.42	11.1344	-15.0912	3	2316.17
0	38	55.07	15.4366	-11.2037	3	2334.82
0	38	59.91	15.1708	-17.5694	3	2339.66
0	38	59.76	15.2683	-11.4685	3	2339.51
0	39	4.61	15.0151	-17.7674	3	2344.36
0	39	9.31	14.2001	-12.5468	3	2349.06
0	39	13.86	17.3333	-3.9083	3	2353.61
0	39	18.56	17.4377	-3.7882	3	2358.31
0	39	37.36	20.8707	-6.2869	3	2377.11
0	39	42.06	20.9478	-6.2316	3	2381.81
0	39	42.06	17.4759	-3.9715	3	2381.81
0	39	51.45	17.5805	-3.851	3	2391.2
0	40	5.56	10.6115	-2.6521	3	2405.31
0	40	14.94	17.6812	-3.8953	3	2414.69
0	40	29.19	8.2679	-11.1942	3	2428.94
0	40	47.85	17.8401	-3.8815	3	2447.6
0	40	47.71	21.5096	-2.2254	3	2447.46
0	40	52.54	17.9894	-3.6964	3	2452.29
0	41	1.93	17.9286	-3.8364	3	2461.68
0	41	6.78	10.0583	-14.8065	3	2466.53
0	41	11.33	17.9716	-3.8552	3	2471.08
0	41	20.74	10.7999	-3.1875	3	2480.49
0	41	20.74	18.1061	-3.6631	3	2480.49
0	41	34.83	18.0071	-4.1228	3	2494.58
0	41	39.53	12.3637	-2.9754	3	2499.28
0	41	53.62	18.0959	-4.0776	3	2513.37
0	41	58.16	20.5939	-2.3951	3	2517.91
0	41	58.45	11.2798	-13.6601	3	2518.2
0	42	2.86	20.6788	-2.1715	3	2522.61
0	42	3.15	14.5241	-12.9588	3	2522.9
0	42	17.13	11.1423	-3.0599	3	2536.88
0	42	31.21	18.3747	-3.9465	3	2550.96
0	42	31.21	13.8716	-5.2851	3	2550.96
0	42	45.31	11.164	-3.3694	3	2565.06
0	42	59.56	9.9879	-9.9317	3	2579.31
0	43	4.11	16.3634	-1.2457	3	2583.86
0	43	13.49	11.2735	-3.4992	3	2593.24
0	43	18.18	11.3456	-3.4601	3	2597.93
0	43	27.74	11.8124	-16.339	3	2607.49
0	43	36.84	20.0835	-0.3674	3	2616.59
0	43	41.55	20.3118	-0.0341	3	2621.3
0	44	10.03	17.9682	-13.995	3	2649.78
0	44	9.88	8.0402	-5.395	3	2649.63
0	44	37.93	21.8016	0.9784	3	2677.68
0	44	42.78	11.7509	-3.6626	3	2682.53
0	45	11.12	11.9268	-14.1524	3	2710.87
0	45	10.97	16.771	-12.0459	3	2710.72
0	45	10.97	10.8497	-4.9506	3	2710.72
0	45	20.36	18.9764	-4.2077	3	2720.11
0	45	24.93	21.5569	-2.6763	3	2724.68
0	45	34.46	11.9135	-3.8959	3	2734.21
0	45	34.46	16.6767	-12.3696	3	2734.21
0	45	39.32	16.6329	-12.438	3	2739.07
0	45	48.56	16.86	-12.1972	3	2748.31
0	45	57.95	8.4758	-5.7321	3	2757.7

			X	X	code			
0	30	2.8	22.8763	-6.802	0	1802.8	1800	
0	30	14.8	22.0979	-7.2294	0	1814.8	1812	
0	30	26.8	21.2968	-8.0294	0	1826.8	1824	
0	30	38.9	20.4351	-8.6353	0	1838.9	1836.1	
	31	26.8	19.3635	-6.4748	0	1886.8	1884	
0	31	26.9	20.5141	-7.1878	0	1886.9	1884.1	
0	31	27.1	17.5714	-12.2531		0	1887.1	1884.3
0	31	38.9	20.9686	-6.141	0	1898.9	1896.1	
0	31	39.1	16.6068	-12.5168		0	1899.1	1896.3
0	31	51	20.2155	-8.3574	0	1911	1908.2	
0	32	3.1	15.2068	-14.0543		0	1923.1	1920.3
0	32	15.1	14.3214	-14.6228		0	1935.1	1932.3
0	32	15.1	20.0711	-8.7445	0	1935.1	1932.3	

RP43PRI.XY
 (AVYPRI~1.XY)

TIREUOSEYPA

0	30	9.5	22.3036	-7.6281	1809.5	1	1806.7	
0	30	21.7	21.4395	-8.3461	1821.7	1	1818.9	
0	30	23.4	10.8315	-3.6077	1823.4	1	1820.6	
0	30	33.7	20.6762	-9.0999	1833.7	1	1830.9	
	30	46.1	16.4155	-14.0754		1846.1	1	1843.3
0	30	57.1	26.5676	-15.29	1857.1	1	1854.3	
0	30	57.1	26.5676	-15.29	1857.1	1	1854.3	
0	30	57.8	19.0151	-10.4723		1857.8	1	1855
0	30	57.8	19.0151	-10.4723		1857.8	1	1855
0	31	11.1	11.0648	-3.4823	1871.1	1	1868.3	
0	31	21.4	-19.94	-8.6766	1881.4	1	1878.6	
0	31	23.1	10.9383	-3.5429	1883.1	1	1880.3	
0	31	33.3	-21.0271	-8.0355	1893.3	1	1890.5	
0	31	33.6	18.2005	-8.9609	1893.6	1	1890.8	
0	31	33.9	16.6567	-12.5938		1893.9	1	1891.1
0	31	35	10.9249	-3.5305	1895	1	1892.2	
0	31	45.2	-21.3427	-7.8555	1905.2	1	1902.4	
0	31	45.8	15.8915	-13.2435		1905.8	1	1903
0	31	47	10.8045	-3.5826	1907	1	1904.2	
0	31	57.1	21.5449	-7.9366	1917.1	1	1914.3	
0	31	57.8	15.0206	-13.9814		1917.8	1	1915
0	31	58.4	14.6802	-2.1207	1918.4	1	1915.6	
0	31	58.9	10.8436	-3.6188	1918.9	1	1916.1	
0	32	9	21.4861	-7.949	1929	1	1926.2	
0	32	9.8	14.2427	-14.704	1929.8	1	1927	

RP 44RI.XY

RIVERHEAD

0	30	7.4	22.31	-8.1812	1807.4	2	1804.6	
0	30	19.5	21.4854	-8.7468	1819.5	2	1816.7	
0	30	31.4	20.6895	-9.5661	1831.4	2	1828.6	
0	30	43.3	19.8658	-10.1331		1843.3	2	1840.5
0	30	55.4	19.0421	-10.7001		1855.4	2	1852.6
0	30	55.4	8.2851	-10.0405		1855.4	2	1852.6
0	31	7.4	18.242	-11.5304		1867.4	2	1864.6
0	31	19.4	17.4524	-12.3577		1879.4	2	1876.6
0	31	19.4	19.5944	-9.5246	1879.4	2	1876.6	
0	31	31.3	20.2485	-9.5954	1891.3	2	1888.5	
0	31	31.4	16.4976	-12.7351		1891.4	2	1888.6
0	31	43.3	15.8086	-13.4969		1903.3	2	1900.5
0	31	43.4	20.9943	-9.3563	1903.4	2	1900.6	
0	31	55.4	15.1353	-14.5081		1915.4	2	1912.6
0	31	55.4	21.3276	-9.3995	1915.4	2	1912.6	
0	31	55.5	19.5275	-8.7489	1915.5	2	1912.7	
0	32	7.4	14.5886	-15.471	1927.4	2	1924.6	

RP47PRI.XY

NEW TRUSO MA

U	S	SA	PA	AZ	#
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0,30,2.2,0,29.75,239.94,0,1					
0,30,2.3,0,40.13,249.52,0,1					
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0,30,2.4,0,39.75,254.44,0,1					
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0,30,13.9,0,26.75,230.63,0,1					
0,30,13.9,0,31.25,239.15,0,1					
0,30,14,0,28.75,239.06,0,1					
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0,30,14.1,0,40.63,250.4,0,1					
0,30,14.3,0,120.5,56.07,0,0					
0,30,14.3,0,11.88,255.5,0,1					
0,30,14.3,0,39.75,254.44,0,1					
0,30,14.4,0,116.5,63.46,0,0					
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0,30,34.9,0,29.13,210.59,0,1					
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NVYALLI. CSV

- check & remove me to my
 - get me the data
 - adjust
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0,32,14.6,0,124.75,56.6,0,0
0,32,15.1,0,110.75,73.3,0,0
0,32,15.1,0,103.63,75.5,0,0

H	M	S	X'	Y	alt	t	alt+50	alt-50	t	t-25	t+25		
0	28	1	0.298	-14.02	126	1681	,,	125.5	126.5	,,	1681	1678.5	1678.75
0	28	13	1.403	-13.969	127	1693	,,	126.5	127.5	,,	1693	1690.5	1690.75
0	28	25	2.663	-13.936	128	1705	,,	127.5	128.5	,,	1705	1702.5	1702.75
0	28	37	4.048	-13.784	129	1717	,,	128.5	129.5	,,	1717	1714.5	1714.75
0	28	48	5.154	-13.616	130	1728	,,	129.5	130.5	,,	1728	1725.5	1725.75
0	29	0	6.411	-13.215	131	1740	,,	130.5	131.5	,,	1740	1737.5	1737.75
0	29	12	7.644	-12.795	129	1752	,,	128.5	129.5	,,	1752	1749.5	1749.75
0	29	24	8.62	-12.41	129	1764	,,	128.5	129.5	,,	1764	1761.5	1761.75
0	29	36	9.865	-11.99	128	1776	,,	127.5	128.5	,,	1776	1773.5	1773.75
0	29	48	10.984	-11.72	128	1788	,,	127.5	128.5	,,	1788	1785.5	1785.75
0	29	59	12.226	-11.2	129	1799	,,	128.5	129.5	,,	1799	1796.5	1796.75
0	30	11	13.342	-10.896	129	1811	,,	128.5	129.5	,,	1811	1808.5	1808.75
0	30	23	14.445	-10.375	129	1823	,,	128.5	129.5	,,	1823	1820.5	1820.75
0	30	35	15.449	-9.971	131	1835	,,	130.5	131.5	,,	1835	1832.5	1832.75
0	30	47	16.551	-9.683	133	1847	,,	132.5	133.5	,,	1847	1844.5	1844.75
0	30	59	17.779	-9.161	133	1859	,,	132.5	133.5	,,	1859	1856.5	1856.75
0	31	10	19.036	-8.771	137	1870	,,	136.5	137.5	,,	1870	1867.5	1867.75

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μ	M	S	X	Y	t_{sec}	$t - 1.25$
0	20	2	26.916	-13.907	1202	1199.75
0	20	3	16.318	-14.568	1203	1200.75
0	20	37	26.933	-14.29	1237	1234.75
0	20	38	16.205	-14.852	1238	1235.75
	20	38	22.7	-6.035	1238	1235.75
0	20	39	8.875	-12.643	1239	1236.75
0	20	41	8.988	-12.392	1241	1238.75
0	20	47	8.988	-12.392	1247	1244.75
0	20	49	27.074	-14.406	1249	1246.75
0	20	51	9.992	-11.64	1251	1248.75
0	20	52	11.022	-3.354	1252	1249.75
0	20	53	10.231	-11.239	1253	1250.75
0	21	3	11.022	-3.354	1263	1260.75
0	21	5	10.951	-9.987	1265	1262.75
0	21	13	26.936	-14.69	1273	1270.75
0	21	15	11.022	-3.354	1275	1272.75
0	21	17	11.278	-8.603	1277	1274.75
0	21	27	11.49	-7.202	1287	1284.75
0	21	27	10.895	-3.471	1287	1284.75
0	21	29	11.502	-7.219	1289	1286.75
0	21	37	26.81	-14.808	1297	1294.75
0	21	37	22.476	-6.653	1297	1294.75
0	21	38	16.067	-15.219	1298	1295.75
0	21	41	11.701	-5.718	1301	1298.75
0	21	49	26.824	-14.941	1309	1306.75
0	21	50	16.094	-15.352	1310	1307.75
0	21	51	11.022	-3.354	1311	1308.75
0	21	53	11.785	-4.435	1313	1310.75
0	22	2	16.094	-15.469	1322	1319.75
0	22	3	11.528	-3.585	1323	1320.75
0	22	3	10.895	-3.471	1323	1320.75
0	22	11	12.743	-2.565	1331	1328.75
0	22	13	26.698	-15.176	1333	1330.75
0	22	15	10.895	-3.471	1335	1332.75
0	22	17	9.229	-16.659	1337	1334.75
0	22	17	12.208	-1.55	1337	1334.75
0	22	26	19.077	-14.772	1346	1343.75
0	22	27	10.882	-3.338	1347	1344.75
0	22	29	8.945	-15.159	1349	1346.75
0	22	29	8.945	-15.159	1349	1346.75
0	22	29	12.29	-0.184	1349	1346.75
0	22	37	26.839	-15.291	1357	1354.75
0	22	38	15.981	-15.853	1358	1355.75
0	22	41	8.408	-13.66	1361	1358.75
0	22	41	12.388	1.2	1361	1358.75
0	22	49	23.469	-15.53	1369	1366.75
0	22	49	26.712	-15.425	1369	1366.75
0	23	1	27.282	-13.421	1381	1378.75
0	23	13	26.586	-15.693	1393	1390.75
0	23	14	15.728	-16.22	1394	1391.75
0	23	23	27.588	-1.286	1403	1400.75
0	23	24	27.535	-13.419	1404	1401.75
0	23	25	15.599	-16.221	1405	1402.75
0	23	29	27.588	-1.286	1409	1406.75
0	23	35	26.983	-1.807	1415	1412.75
0	23	38	12.984	-2.531	1418	1415.75
0	23	41	26.983	-1.807	1421	1418.75
0	23	47	26.983	-1.807	1427	1424.75
0	23	53	25.89	-3.198	1433	1430.75
0	23	59	25.89	-3.198	1439	1436.75

0	24	5	25.159	-3.969	1445	1442.75
0	24	11	25.159	-3.969	1451	1448.75
0	24	12	26.489	-16.194	1452	1449.75
0	24	12	25.035	-4.22	1452	1449.75
0	24	13	15.501	-16.722	1453	1450.75
0	24	14	9.824	-6.007	1454	1451.75
0	24	17	25.159	-3.969	1457	1454.75
0	24	23	24.302	-4.625	1463	1460.75
0	24	24	24.29	-4.741	1464	1461.75
0	24	25	15.362	-16.855	1465	1462.75
0	24	26	13.363	-2.28	1466	1463.75
0	24	29	24.062	-4.743	1469	1466.75
0	24	35	24.062	-4.743	1475	1472.75
0	24	36	26.49	-16.444	1476	1473.75
0	24	37	15.375	-16.972	1477	1474.75
0	24	38	13.49	-2.163	1478	1475.75
0	24	41	22.949	-5.266	1481	1478.75
0	24	47	22.949	-5.266	1487	1484.75
0	24	48	26.49	-16.444	1488	1485.75
0	24	53	22.202	-5.554	1493	1490.75
0	24	59	22.202	-5.554	1499	1496.75
0	25	5	21.075	-5.827	1505	1502.75
0	25	11	21.075	-5.827	1511	1508.75
0	25	14	11.022	-3.354	1514	1511.75
0	25	14	11.022	-3.354	1514	1511.75
0	25	17	20.341	-6.082	1517	1514.75
0	25	23	20.341	-6.082	1523	1520.75
0	25	25	15.705	-1.604	1525	1522.75
0	25	26	11.149	-3.353	1526	1523.75
0	25	29	19.479	-6.386	1529	1526.75
0	25	29	8.37	-2.277	1529	1526.75
0	25	35	19.479	-6.386	1535	1532.75
0	25	36	22.763	-3.768	1536	1533.75
0	25	38	11.022	-3.354	1538	1535.75
0	25	38	9.359	-2.625	1538	1535.75
0	25	41	18.62	-6.89	1541	1538.75
0	25	41	9.98	-2.123	1541	1538.75
0	25	47	18.62	-6.89	1547	1544.75
0	25	48	24.285	-13.759	1548	1545.75
0	25	50	11.009	-3.337	1550	1547.75
0	25	53	17.732	-7.028	1553	1550.75
0	25	53	11.588	-1.719	1553	1550.75
0	25	59	17.732	-7.028	1559	1556.75
0	25	59	26.239	-2.312	1559	1556.75
0	26	2	10.894	-3.354	1562	1559.75
0	26	2	11.022	-3.354	1562	1559.75
0	26	5	16.858	-7.315	1565	1562.75
0	26	5	16.858	-7.315	1565	1562.75
0	26	5	13.348	-1.646	1565	1562.75
0	26	11	16.858	-7.315	1571	1568.75
0	26	14	11.022	-3.354	1574	1571.75
0	26	17	16.136	-7.702	1577	1574.75
0	26	17	15.096	-1.473	1577	1574.75
0	26	23	16.136	-7.702	1583	1580.75
0	26	24	26.256	-17.445	1584	1581.75
0	26	25	15.988	-2.836	1585	1582.75
0	26	25	15.718	-1.854	1585	1582.75
0	26	26	10.895	-3.471	1586	1583.75
0	26	29	15.262	-7.872	1589	1586.75
0	26	29	16.845	-1.549	1589	1586.75

0	29	22	25.415	-4.1	1762	1759.75
0	29	24	16.466	-1.934	1764	1761.75
0	29	34	24.685	-4.989	1774	1771.75
0	29	46	23.967	-5.86	1786	1783.75
	29	58	26.199	-14.829	1798	1795.75
0	29	58	22.97	-6.65	1798	1795.75
0	29	59	16.731	-1.816	1799	1796.75
0	30	5	8.402	0.473	1805	1802.75
0	30	10	22.238	-7.421	1810	1807.75
0	30	17	9.5	1.608	1817	1814.75
0	30	22	21.379	-8.076	1822	1819.75
0	30	24	10.895	-3.471	1824	1821.75
0	30	34	20.66	-8.846	1834	1831.75
0	30	46	26.442	-14.944	1846	1843.75
0	30	46	19.942	-9.6	1846	1843.75
0	30	47	16.416	-13.951	1847	1844.75
0	30	52	19.195	-10.004	1852	1849.75
0	30	58	26.569	-15.06	1858	1855.75
0	30	58	19.067	-10.005	1858	1855.75
0	30	59	19.053	-9.888	1859	1856.75
0	31	5	19.053	-9.888	1865	1862.75
0	31	10	18.346	-10.775	1870	1867.75
0	31	11	18.334	-10.775	1871	1868.75
0	31	12	11.149	-3.337	1872	1869.75
0	31	17	18.334	-10.775	1877	1874.75
0	31	17	18.334	-10.775	1877	1874.75
0	31	18	18.334	-10.775	1878	1875.75
0	31	22	17.614	-11.545	1882	1879.75
0	31	22	19.896	-8.484	1882	1879.75
0	31	23	17.601	-11.429	1883	1880.75
0	31	24	11.022	-3.354	1884	1881.75
0	31	24	10.78	1.145	1884	1881.75
0	31	29	17.601	-11.429	1889	1886.75
0	31	29	17.601	-11.429	1889	1886.75
0	31	30	17.601	-11.429	1890	1887.75
0	31	30	17.601	-11.429	1890	1887.75
0	31	34	20.997	-7.828	1894	1891.75
0	31	35	16.752	-12.182	1895	1892.75
0	31	35	16.879	-12.082	1895	1892.75
0	31	35	16.879	-12.082	1895	1892.75
0	31	36	11.022	-3.354	1896	1893.75
0	31	41	16.879	-12.082	1901	1898.75
0	31	41	16.879	-12.082	1901	1898.75
0	31	44	16.879	-12.082	1904	1901.75
0	31	46	21.377	-7.576	1906	1903.75
0	31	47	15.879	-12.853	1907	1904.75
0	31	47	16.005	-12.719	1907	1904.75
0	31	47	16.005	-12.719	1907	1904.75
0	31	48	10.894	-3.354	1908	1905.75
0	31	53	16.005	-12.719	1913	1910.75
0	31	53	16.005	-12.719	1913	1910.75
0	31	58	21.505	-7.708	1918	1915.75
0	31	59	15.03	-13.607	1919	1916.75
0	31	59	15.157	-13.489	1919	1916.75
0	31	59	15.157	-13.489	1919	1916.75
0	31	59	14.73	-1.874	1919	1916.75
0	32	0	10.895	-3.471	1920	1917.75
0	32	5	15.157	-13.489	1925	1922.75
0	32	5	15.157	-13.489	1925	1922.75
0	32	10	14.295	-14.376	1930	1927.75

0	32	10	21.518	-7.708	1930	1927.75
0	32	11	14.435	-14.259	1931	1928.75
0	32	11	14.435	-14.259	1931	1928.75
0	32	17	14.435	-14.259	1937	1934.75
	32	17	14.435	-14.259	1937	1934.75
0	32	17	14.435	-14.259	1937	1934.75
0	32	17	14.435	-14.259	1937	1934.75
0	32	22	13.446	-15.046	1942	1939.75
0	32	22	21.504	-7.692	1942	1939.75
0	32	22	17.706	-1.678	1942	1939.75
0	32	23	13.573	-15.029	1943	1940.75
0	32	23	13.573	-15.029	1943	1940.75
0	32	23	11.022	-3.354	1943	1940.75
0	32	34	12.71	-15.799	1954	1951.75
0	32	34	21.632	-7.674	1954	1951.75
0	32	35	10.657	-17.872	1955	1952.75
0	32	35	12.85	-15.681	1955	1952.75
0	32	35	12.85	-15.681	1955	1952.75
0	32	41	12.85	-15.681	1961	1958.75
0	32	45	21.632	-7.674	1965	1962.75
0	32	46	12.115	-16.451	1966	1963.75
0	32	47	11.254	-17.353	1967	1964.75
0	32	47	12.103	-16.434	1967	1964.75
0	32	47	12.103	-16.434	1967	1964.75
0	32	47	11.009	-3.22	1967	1964.75
0	32	57	21.618	-7.674	1977	1974.75
0	32	58	11.253	-17.103	1978	1975.75
0	32	58	11.99	-16.684	1978	1975.75
0	32	58	11.845	-11.568	1978	1975.75
0	32	59	11.24	-17.103	1979	1976.75
0	32	59	11.24	-17.103	1979	1976.75
0	32	59	12.002	-16.818	1979	1976.75
0	33	5	10.757	-17.621	1985	1982.75
0	33	5	10.757	-17.621	1985	1982.75
0	33	9	21.759	-7.807	1989	1986.75
0	33	10	10.403	-17.756	1990	1987.75
0	33	10	19.659	-9.102	1990	1987.75
0	33	11	10.388	-17.756	1991	1988.75
0	33	11	10.388	-17.756	1991	1988.75
0	33	11	12.598	-16.182	1991	1988.75
0	33	11	11.022	-3.354	1991	1988.75
0	33	21	21.888	-7.923	2001	1998.75
0	33	22	19.659	-9.102	2002	1999.75
0	33	23	13.206	-15.547	2003	2000.75
0	33	23	13.206	-15.547	2003	2000.75
0	33	23	8.904	-13.776	2003	2000.75
0	33	23	11.022	-3.354	2003	2000.75
0	33	32	24.891	-3.487	2012	2009.75
0	33	33	19.659	-9.102	2013	2010.75
0	33	33	21.759	-7.923	2013	2010.75
0	33	34	15.772	-17.737	2014	2011.75
0	33	35	13.815	-15.028	2015	2012.75
0	33	35	10.021	-12.873	2015	2012.75
0	33	41	16.251	-16.835	2021	2018.75
0	33	45	20.007	-12.484	2025	2022.75
	33	45	21.888	-7.923	2025	2022.75
0	33	46	16.591	-16.084	2026	2023.75
0	33	46	14.423	-14.375	2026	2023.75
0	33	46	11.109	-11.837	2026	2023.75
0	33	46	17.413	-9.429	2026	2023.75

0	33	47	16.478	-16.317	2027	2024.75
0	33	47	14.295	-14.393	2027	2024.75
0	33	47	10.984	-11.971	2027	2024.75
0	33	58	14.917	-13.757	2038	2035.75
	33	59	17.439	-15.063	2039	2036.75
0	33	59	12.086	-10.95	2039	2036.75
0	34	5	15.272	-13.489	2045	2042.75
0	34	9	18.173	-14.409	2049	2046.75
0	34	9	20.646	-8.48	2049	2046.75
0	34	11	15.512	-13.238	2051	2048.75
0	34	11	13.2	-10.18	2051	2048.75
0	34	17	18.79	-13.389	2057	2054.75
0	34	21	27.987	-16.016	2061	2058.75
0	34	21	19.02	-13.388	2061	2058.75
0	34	21	19.925	-9.35	2061	2058.75
0	34	21	21.873	-7.94	2061	2058.75
0	34	23	16.005	-12.703	2063	2060.75
0	34	23	14.302	-9.259	2063	2060.75
0	34	29	20.374	-12.215	2069	2066.75
0	34	33	20.006	-12.367	2073	2070.75
0	34	33	22.014	-8.189	2073	2070.75
0	34	35	16.624	-12.083	2075	2072.75
0	34	35	15.403	-8.471	2075	2072.75
0	34	41	20.584	-11.097	2081	2078.75
0	34	45	16.99	-11.448	2085	2082.75
0	34	45	20.852	-11.329	2085	2082.75
0	34	45	22	-7.939	2085	2082.75
0	34	47	16.491	-7.567	2087	2084.75
0	34	53	17.586	-11.179	2093	2090.75
0	34	53	21.316	-10.059	2093	2090.75
0	34	57	21.824	-10.19	2097	2094.75
0	34	57	20.181	-9.349	2097	2094.75
0	34	57	22.143	-8.305	2097	2094.75
0	34	57	22.128	-7.938	2097	2094.75
0	34	59	17.585	-10.929	2099	2096.75
0	34	59	17.73	-6.778	2099	2096.75
0	35	5	22.527	-8.919	2105	2102.75
0	35	9	22.682	-9.285	2109	2106.75
0	35	9	22.283	-8.304	2109	2106.75
0	35	9	22.255	-8.037	2109	2106.75
0	35	10	11.022	-3.354	2110	2107.75
0	35	11	17.811	-10.294	2111	2108.75
0	35	11	18.958	-5.872	2111	2108.75
0	35	17	21.507	-8.075	2117	2114.75
0	35	20	23.512	-8.146	2120	2117.75
0	35	20	22.255	-8.037	2120	2117.75
0	35	21	22.143	-8.305	2121	2118.75
0	35	23	18.175	-9.642	2123	2120.75
0	35	23	19.943	-5.1	2123	2120.75
0	35	29	24.113	-6.626	2129	2126.75
0	35	31	16.543	-13.833	2131	2128.75
0	35	32	22.269	-8.421	2132	2129.75
0	35	32	22.395	-8.036	2132	2129.75
0	35	32	24.484	-7.107	2132	2129.75
0	35	35	16.543	-13.833	2135	2132.75
0	35	35	18.286	-8.892	2135	2132.75
0	35	35	21.028	-4.194	2135	2132.75
0	35	41	16.543	-13.833	2141	2138.75
0	35	41	24.195	-5.759	2141	2138.75
0	35	44	22.41	-8.536	2144	2141.75

0	35	44	22.382	-8.153	2144	2141.75
0	35	44	24.926	-5.104	2144	2141.75
0	35	44	21.818	-4.94	2144	2141.75
0	35	44	22.125	-3.305	2144	2141.75
	35	47	15.825	-15.47	2147	2144.75
0	35	47	18.257	-8.142	2147	2144.75
0	35	47	24.926	-5.104	2147	2144.75
0	35	47	22.125	-3.305	2147	2144.75
0	35	53	15.825	-15.47	2153	2150.75
0	35	56	22.396	-8.153	2156	2153.75
0	35	57	14.863	-16.607	2157	2154.75
0	35	57	17.733	-1.928	2157	2154.75
0	35	59	15.119	-16.606	2159	2156.75
0	35	59	18.367	-7.392	2159	2156.75
0	35	59	23.238	-2.515	2159	2156.75
0	36	5	15.119	-16.606	2165	2162.75
0	36	5	26.398	-3.311	2165	2162.75
0	36	7	27.262	-3.671	2167	2164.75
0	36	8	22.41	-8.536	2168	2165.75
0	36	8	22.775	-8.017	2168	2165.75
0	36	10	11.149	-3.337	2170	2167.75
0	36	11	14.269	-17.527	2171	2168.75
0	36	11	18.351	-6.642	2171	2168.75
0	36	11	24.334	-1.608	2171	2168.75
0	36	17	14.269	-17.527	2177	2174.75
0	36	20	21.805	-9.173	2180	2177.75
0	36	20	22.399	-8.653	2180	2177.75
0	36	20	22.635	-8.052	2180	2177.75
0	36	23	18.462	-5.891	2183	2180.75
0	36	23	25.556	-0.717	2183	2180.75
0	36	32	21.792	-9.307	2192	2189.75
0	36	32	22.763	-8.017	2192	2189.75
0	36	35	18.446	-5.141	2195	2192.75
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0	37	34	10.894	-3.354	2254	2251.75
0	37	42	27.663	0.348	2262	2259.75
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0	37	44	23.145	-8.282	2264	2261.75
0	37	44	23.145	-8.282	2264	2261.75
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0	37	55	23.145	-8.282	2275	2272.75
0	37	56	22.048	-9.439	2276	2273.75
0	38	7	22.781	-9.034	2287	2284.75

0	38	7	22.779	-8.784	2287	2284.75
0	38	7	23.133	-8.282	2287	2284.75
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0	39	43	23.165	-9.398	2383	2380.75
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0	39	43	21.745	-7.674	2383	2380.75
0	39	55	21.554	-9.575	2395	2392.75
0	39	55	23.165	-9.398	2395	2392.75
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10 Nov 87

alt λ

12900	0,30,10,40,36,45,72,48,46
12900	0,30,22,40,37,9,72,47,7
13100	0,30,34,40,37,38,72,45,59
13300	0,30,46,40,37,53,72,44,19
	00,0,30,58,40,38,23,72,42,52
13700	0,31,9,40,38,45,72,41,12

BOS-97LL-CSV

Primeres

12950, 72.0500

HMS	X	Y	"	t	alt.	alt.	t	t-15	t-125
0,30,10	13.14	-10.864	129	1810	128.5	129.5	1810	1808.5	1808.75
0,30,22	14.395	-10.459	129	1822	128.5	129.5	1822	1820.5	1820.75
0,30,34	15.258	-9.972	131	1834	130.5	131.5	1834	1832.5	1832.75
0,30,46	16.525	-9.717	133	1846	132.5	133.5	1846	1844.5	1844.75
0,50,58	17.628	-9.212	133	1858	132.5	133.5	1858	1856.5	1856.75
0,31,9	18.895	-8.839	137	1869	136.5	137.5	1869	1867.5	1867.75

BOS 97. CBV

Primaries

z	r	s	x	y	t	t-1.25	
0	30	1	12.023	-11.351	0	1801	1799.75
0	30	1	22.626	-6.551	0	1801	1799.75
0	30	7	8.718	0.756	0	1807	1805.75
0	30	9	22.137	-7.188	0	1809	1807.75
0	30	13	13.67	-17.212	0	1813	1811.75
0	30	13	13.266	-10.863	0	1813	1811.75
0	30	13	22.009	-7.322	0	1813	1811.75
0	30	14	8.718	0.756	0	1814	1812.75
0	30	19	13.67	-17.212	0	1819	1817.75
0	30	19	9.982	1.659	0	1819	1817.75
0	30	20	13.266	-10.863	0	1820	1818.75
0	30	21	21.265	-7.943	0	1821	1819.75
0	30	23	13.67	-17.212	0	1823	1821.75
0	30	25	14.67	-15.975	0	1825	1823.75
0	30	25	14.395	-10.459	0	1825	1823.75
0	30	25	21.138	-8.06	0	1825	1823.75
0	30	31	14.67	-15.975	0	1831	1829.75
0	30	31	14.67	-15.975	0	1831	1829.75
0	30	31	20.632	-8.313	0	1831	1829.75
0	30	31	20.632	-8.313	0	1831	1829.75
0	30	33	20.519	-8.697	0	1833	1831.75
0	30	37	15.396	-9.971	0	1837	1835.75
0	30	37	20.393	-8.831	0	1837	1835.75
0	30	45	26.416	-15.061	0	1845	1843.75
0	30	45	19.762	-9.335	0	1845	1843.75
0	30	46	16.278	-13.968	0	1846	1844.75
0	30	49	16.513	-9.717	0	1849	1847.75
0	30	49	19.636	-9.568	0	1849	1847.75
0	30	51	19.636	-9.568	0	1851	1849.75
0	30	55	17.164	-13.331	0	1855	1853.75
0	30	55	19.636	-9.568	0	1855	1853.75
0	30	57	26.405	-15.194	0	1857	1855.75
0	30	58	18.901	-10.089	0	1858	1856.75
0	31	1	17.147	-12.464	0	1861	1859.75
0	31	1	18.762	-10.189	0	1861	1859.75
0	31	1	17.767	-9.211	0	1861	1859.75
0	31	1	8.893	-9.126	0	1861	1859.75
0	31	6	18.762	-10.189	0	1866	1864.75
0	31	7	18.762	-10.189	0	1867	1865.75
0	31	7	8.893	-9.126	0	1867	1865.75
0	31	10	18.131	-10.826	0	1870	1868.75
0	31	13	17.637	-11.078	0	1873	1871.75
0	31	13	18.144	-10.943	0	1873	1871.75
0	31	13	19.023	-8.838	0	1873	1871.75
0	31	13	10.251	-8.739	0	1873	1871.75
0	31	18	18.144	-10.943	0	1878	1876.75
0	31	19	18.144	-10.943	0	1879	1877.75
0	31	19	10.251	-8.739	0	1879	1877.75
0	31	19	17.462	1.787	0	1879	1877.75
0	31	21	19.896	-8.567	0	1881	1879.75
0	31	22	17.384	-11.58	0	1882	1880.75
0	31	25	17.398	-11.696	0	1885	1883.75
0	31	25	17.884	-9.594	0	1885	1883.75
0	31	25	11.505	-8.219	0	1885	1883.75
0	31	25	17.462	1.787	0	1885	1883.75
0	31	28	17.398	-11.696	0	1888	1886.75
0	31	30	17.884	-9.594	0	1890	1888.75
0	31	31	17.398	-11.696	0	1891	1889.75
0	31	31	20.76	-8.463	0	1891	1889.75
0	31	31	11.505	-8.219	0	1891	1889.75

BOSPRT2.XY

0	31	31	16.607	0.666	0	1891	1889.75
0	31	33	17.398	-11.696	0	1893	1891.75
0	31	33	18.144	-8.443	0	1893	1891.75
0	31	33	20.882	-7.829	0	1893	1891.75
0	31	37	18.131	-8.326	0	1897	1895.75
0	31	37	12.875	-7.848	0	1897	1895.75
0	31	39	12.875	-7.848	0	1899	1897.75
0	31	39	15.977	-0.336	0	1899	1897.75
0	31	43	18.131	-8.326	0	1903	1901.75
0	31	43	22.014	-8.072	0	1903	1901.75
0	31	43	12.875	-7.848	0	1903	1901.75
0	31	45	21.264	-7.693	0	1905	1903.75
0	31	46	15.764	-12.854	0	1906	1904.75
0	31	49	15.777	-12.954	0	1909	1907.75
0	31	49	14.256	-7.359	0	1909	1907.75
0	31	49	18.379	-6.941	0	1909	1907.75
0	31	51	18.379	-6.941	0	1911	1909.75
0	31	52	18.379	-6.941	0	1912	1910.75
0	31	54	22.014	-8.072	0	1914	1912.75
0	31	55	15.777	-12.954	0	1915	1913.75
0	31	55	23.13	-7.699	0	1915	1913.75
0	31	55	14.256	-7.359	0	1915	1913.75
0	31	55	18.379	-6.941	0	1915	1913.75
0	31	55	14.869	-1.724	0	1915	1913.75
0	31	57	21.378	-7.809	0	1917	1915.75
0	31	58	14.904	-13.707	0	1918	1916.75
0	31	58	14.904	-13.707	0	1918	1916.75
0	32	1	15.499	-7.088	0	1921	1919.75
0	32	1	15.499	-7.088	0	1921	1919.75
0	32	1	18.752	-5.59	0	1921	1919.75
0	32	1	14.869	-1.724	0	1921	1919.75
0	32	7	14.916	-13.723	0	1927	1925.75
0	32	7	24.396	-7.324	0	1927	1925.75
0	32	7	18.752	-5.59	0	1927	1925.75
0	32	7	13.986	-2.961	0	1927	1925.75
0	32	9	21.39	-7.809	0	1929	1927.75
0	32	10	14.144	-14.36	0	1930	1928.75
0	32	13	14.016	-14.46	0	1933	1931.75
0	32	13	17.133	-6.464	0	1933	1931.75
0	32	13	18.987	-4.322	0	1933	1931.75
0	32	13	13.986	-2.961	0	1933	1931.75
0	32	16	18.987	-4.322	0	1936	1934.75
0	32	19	14.016	-14.46	0	1939	1937.75
0	32	19	25.498	-6.933	0	1939	1937.75
0	32	19	13.116	-4.097	0	1939	1937.75
0	32	19	19.377	-3.453	0	1939	1937.75
0	32	19	19.377	-3.453	0	1939	1937.75
0	32	21	21.378	-7.809	0	1941	1939.75
0	32	22	13.408	-15.096	0	1942	1940.75
0	32	33	21.519	-7.808	0	1953	1951.75
0	32	33	21.519	-7.808	0	1953	1951.75
0	32	45	21.519	-7.808	0	1965	1963.75
0	32	56	21.505	-7.708	0	1976	1974.75
0	32	57	11.037	-17.22	0	1977	1975.75
0	33	8	21.644	-7.824	0	1988	1986.75
0	33	9	19.646	-9.202	0	1989	1987.75
0	33	20	21.773	-7.957	0	2000	1998.75
0	33	21	19.646	-9.202	0	2001	1999.75
0	33	32	21.773	-7.957	0	2012	2010.75
0	33	33	15.531	-17.838	0	2013	2011.75

0	33	34	21.773	-7.957	0	2014	2012.75
0	33	44	19.905	-12.584	0	2024	2022.75
0	34	8	18.022	-14.477	0	2048	2046.75
0	34	8	20.506	-8.564	0	2048	2046.75
	34	20	27.785	-16.168	0	2060	2058.75
0	34	20	18.893	-13.472	0	2060	2058.75
0	34	20	19.762	-9.451	0	2060	2058.75
0	34	20	21.889	-8.056	0	2060	2058.75
0	34	32	19.766	-12.468	0	2072	2070.75
0	34	32	21.875	-8.306	0	2072	2070.75
0	34	44	16.902	-11.582	0	2084	2082.75
0	34	44	20.776	-11.329	0	2084	2082.75
0	34	44	22.013	-8.055	0	2084	2082.75
0	34	56	21.633	-10.308	0	2096	2094.75
0	34	56	20.015	-9.333	0	2096	2094.75
0	34	56	22.144	-8.438	0	2096	2094.75
0	34	56	22.001	-8.055	0	2096	2094.75
0	35	8	22.518	-9.302	0	2108	2106.75
0	35	8	22.144	-8.438	0	2108	2106.75
0	35	8	22.128	-8.071	0	2108	2106.75
0	35	19	23.386	-8.197	0	2119	2117.75
0	35	20	22.003	-8.439	0	2120	2118.75
0	35	20	22.266	-7.921	0	2120	2118.75
0	35	31	22.131	-8.455	0	2131	2129.75
0	35	31	22.267	-8.07	0	2131	2129.75
0	35	31	24.381	-7.174	0	2131	2129.75
0	35	43	22.27	-8.57	0	2143	2141.75
0	35	43	22.256	-8.204	0	2143	2141.75
0	35	55	22.268	-8.204	0	2155	2153.75
0	35	56	14.788	-16.708	0	2156	2154.75
0	36	7	22.27	-8.57	0	2167	2165.75
0	36	7	22.635	-8.068	0	2167	2165.75
0	36	19	21.627	-9.308	0	2179	2177.75
0	36	19	22.259	-8.704	0	2179	2177.75
0	36	31	21.627	-9.324	0	2191	2189.75
0	36	31	22.623	-8.068	0	2191	2189.75
0	36	43	22.5	-8.552	0	2203	2201.75
0	36	55	21.767	-9.324	0	2215	2213.75
0	36	55	22.515	-8.803	0	2215	2213.75
0	36	55	21.376	-7.559	0	2215	2213.75
0	37	7	22.751	-8.184	0	2227	2225.75
0	37	19	19.165	-14.471	0	2239	2237.75
0	37	19	22.641	-9.052	0	2239	2237.75
0	37	19	23.019	-8.299	0	2239	2237.75
0	37	31	22.641	-9.052	0	2251	2249.75
0	37	31	22.88	-8.3	0	2251	2249.75
0	37	32	8.395	-13.51	0	2252	2250.75
0	37	43	22.769	-8.951	0	2263	2261.75
0	37	43	23.019	-8.433	0	2263	2261.75
0	37	43	21.505	-7.708	0	2263	2261.75
0	37	55	22.022	-9.555	0	2275	2273.75
0	37	55	23.006	-8.433	0	2275	2273.75
0	38	6	23.005	-8.316	0	2286	2284.75
0	38	7	22.152	-9.688	0	2287	2285.75
0	38	7	22.77	-9.067	0	2287	2285.75
0	38	7	22.768	-8.817	0	2287	2285.75
0	38	18	23.134	-8.449	0	2298	2296.75
0	38	30	23.02	-8.549	0	2310	2308.75
0	38	31	22.152	-9.805	0	2311	2309.75
0	38	43	21.134	-9.461	0	2323	2321.75

0	38	54	22.277	-9.804	0	2334	2332.75
0	38	54	22.885	-9.2	0	2334	2332.75
0	39	6	23.4	-8.547	0	2346	2344.75
0	39	6	21.643	-7.708	0	2346	2344.75
0	39	7	19.617	-6.069	0	2347	2345.75
0	39	18	21.4	-9.559	0	2358	2356.75
0	39	18	23.012	-9.433	0	2358	2356.75
0	39	18	22.885	-9.067	0	2358	2356.75
0	39	18	23.514	-8.446	0	2358	2356.75
0	39	30	23.152	-9.432	0	2370	2368.75
0	39	30	23.515	-8.68	0	2370	2368.75
0	39	30	20.634	-6.18	0	2370	2368.75
0	39	42	21.389	-9.692	0	2382	2380.75
0	39	42	23.013	-9.549	0	2382	2380.75
0	39	42	23.149	-9.049	0	2382	2380.75
0	39	42	23.503	-8.563	0	2382	2380.75
0	39	42	21.632	-7.708	0	2382	2380.75
0	39	54	21.53	-9.691	0	2394	2392.75
0	39	54	23.152	-9.549	0	2394	2392.75
0	39	54	23.402	-8.93	0	2394	2392.75
0	39	54	21.643	-7.708	0	2394	2392.75

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NRDALL, CSV

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0,25,43.97,-5.2905,-14.7327,120,1543.97,1619.685,121,121.5,120.5
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NRD 43. CSV

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NRD44.CSV

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0,27,37.1,5.7705,-13.5279,130,1657.1,1732.815,131,131.5,130.5
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NR047.CSV