

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digibeta #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
81	2/11/03	Sighting: Whitney, TX		16	716119	20:06:31	20:07:38	0:01:07	VHS	South of Arlington	24-0081		
82	2/11/03	Sighting: Sulphur Springs, TX		17	716119	20:11:01	20:13:00	0:01:59	VHS		24-0082		
83	2/11/03	Sighting: Clip from Fox news		18	716119	20:19:05	20:19:28	0:00:23	VHS		24-0083		
84	2/11/03	Sighting: Dallas, TX		19	716119	20:25:00	20:25:28	0:00:28	8mm	Southeast of Dallas	24-0084		
85	2/11/03	Sighting: Red Oak, TX		20	716119	20:28:30	20:33:31	0:05:01	VHS	32.53 deg N, 96.77 deg W, very clear distinct video	24-0085		
86	2/11/03	Sighting: Launch		21	716119	20:47:00	20:50:14	0:03:14	VHS		24-0086		
87	2/11/03	Sighting: Mesquite, TX		22	716119	20:57:03	20:58:21	0:01:18	VHS		24-0087		
88	2/11/03	Sighting: Baton Rouge, LA		23	716119	21:04:30	21:05:29	0:00:59	VHS	Looks like an aircraft	24-0088		
89	2/11/03	Sighting: Corsicana, TX		24	716119	21:11:00	21:12:20	0:01:20	8mm		24-0089		
90	2/11/03	Sighting: Fayetteville, GA		25	716119	21:19:06	21:23:17	0:04:11	VHS		24-0090		
91	2/11/03	Sighting: Crockett, TX		26	716119	21:26:06	21:26:54	0:00:48	VHS		24-0091		
92													
93													
94													
95													
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97													
98													
99													
100													
101													
102													
103													

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Subject: FW: Rev 12 Baselined, Ground Tracks/Events
Date: Tue, 11 Feb 2003 17:55:04 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

No sighting or debris shedding events yet.

> -----Original Message-----

> From: RASK, JOHN D. (DOUG) (JSC-DM4) (NASA)
> Sent: Tuesday, February 11, 2003 5:12 PM
> To: MCCORMACK, DONALD L. (DON) (JSC-MV6) (NASA)
> Cc: STICH, J. S. (STEVE) (JSC-DA8) (NASA); ADAMS, RANDALL W. (JSC-MA2)
> (NASA); ALTMAN, SCOTT D. (JSC-CB) (NASA); HILL, PAUL S. (JSC-DA8) (NASA)
> Subject: Rev 12 Baselined, Ground Tracks/Events
>
> <<STS-107 AIR12 Ground Tracks.pdf>>
> It looks better printed out than it does on your PC.
> John D. (Doug) Rask
> DM42 (Descent Analysis Group)
> (281) 483-1939
>



[STS-107 AIR12 Ground Tracks.pdf](#)

STS-107 Accident Investigation Ground Track and

Events Summary

Based on the Rev 12 Master Time Line

(Baselined, 02/10/03, 08:00 p.m.)

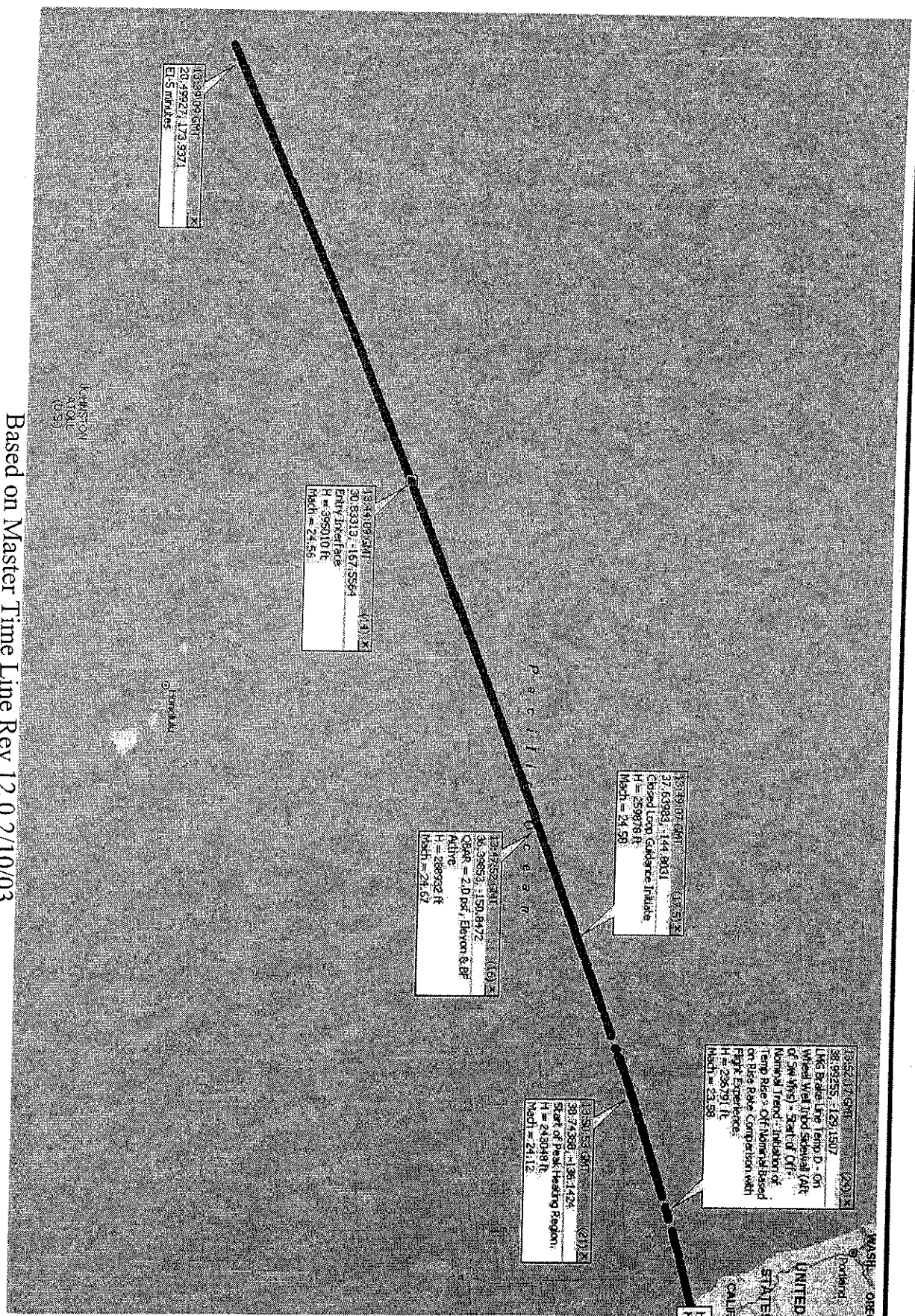
February 11, 2003

Explanation of Ground Tracks

- Ground Track Data Source: STS-107 GPS State Vector
- Event Time Line Source: STS-107 Accident Investigation Master Timeline (Baselined), Revision 12, dated 02/10/03 8:00 pm CST, from the Integrated Time Line Team.
- GPS-derived Latitudes and Longitudes are plotted on the map at 0.96 second time intervals, although there are numerous data dropouts. The symbol used for points from the trajectory data file is a red dot.
- The time tags of events from the Master Time Line sometimes fall between trajectory data points, and in some cases they occur during GPS data dropouts. In these cases the correct location of the event is indicated by a blue dot.
- Explanation of the contents of Note Boxes:
 - Grey Header – Greenwich Mean Time (GMT) of the event and the Event Sequence Number from the Master Time Line (in parentheses)
 - Geodetic Latitude and W. Longitude of the event (red dots only) in decimal degrees.
 - Event description from the Master Time Line
 - Geodetic Altitude of the event (H) in feet (interpolated when necessary)
 - Mach Number of the event (Mach) (interpolated when necessary)
 - Some Note Boxes for points in the Pacific Ocean contain Lat/Lon Reference data only.
 - Some nominal events have been intentionally omitted.

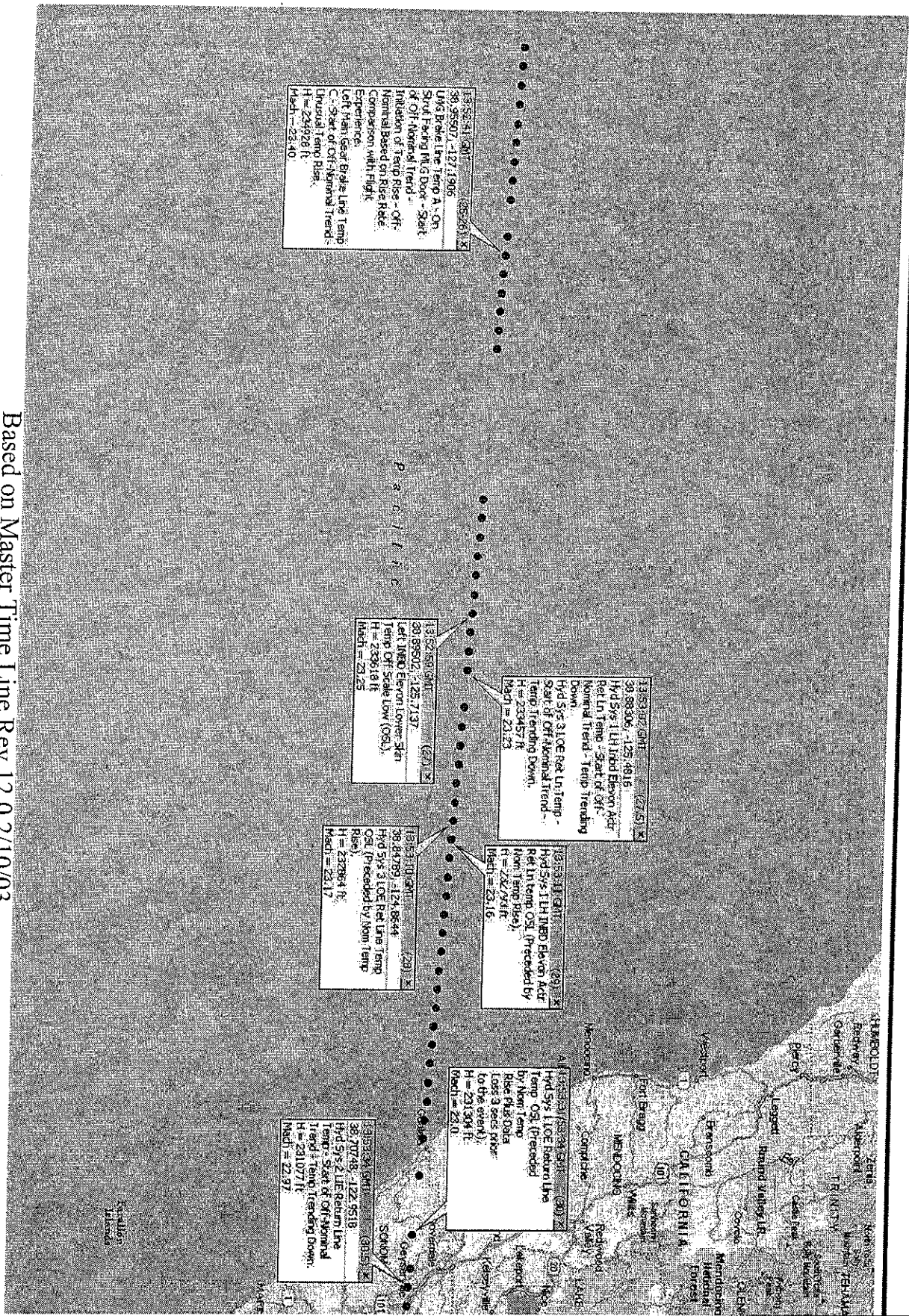
Entry Interface to Coastal Crossing

Based on Master Time Line Rev 12,0 2/10/03

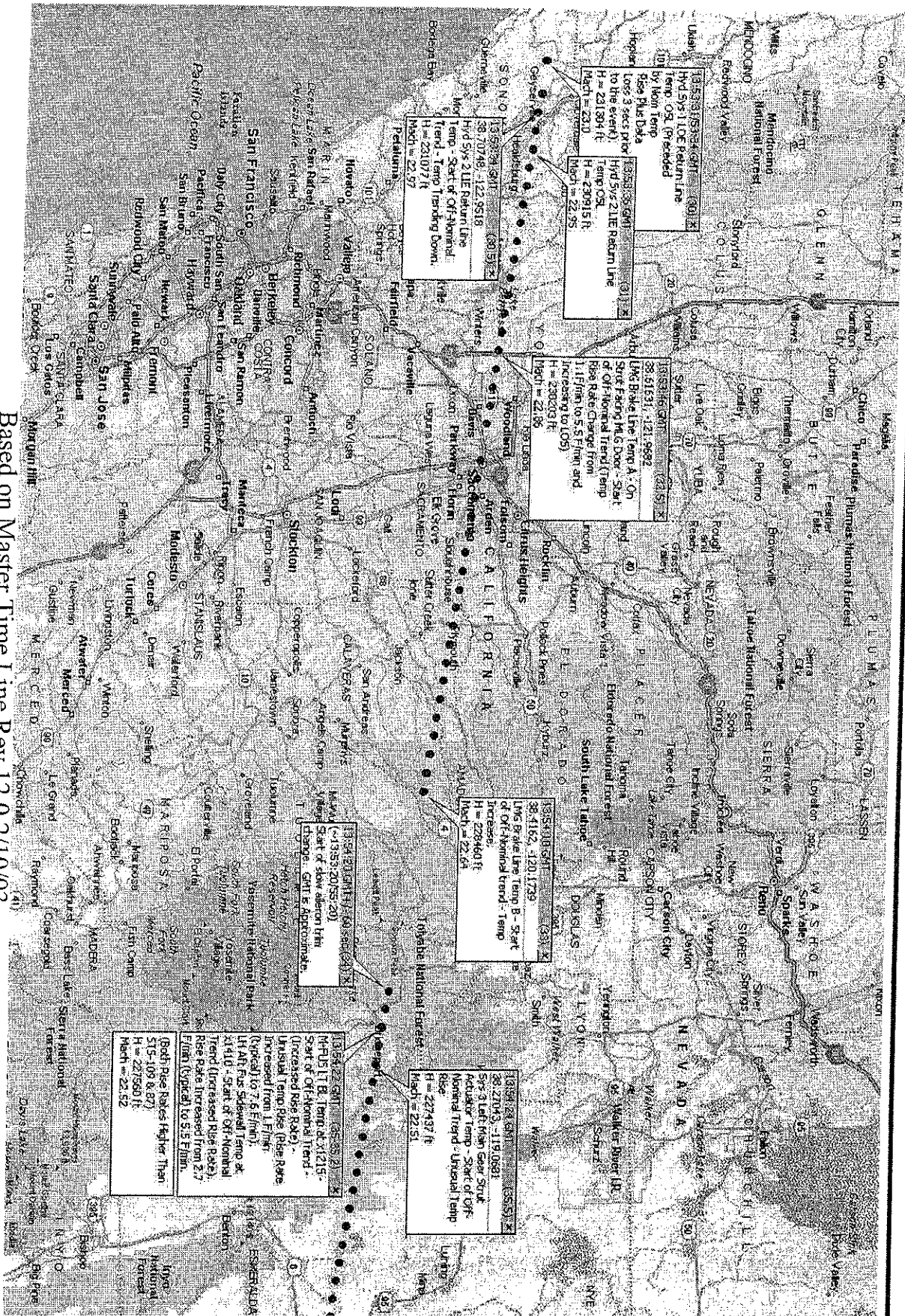


Crossing the California Coast

Based on Master Time Line Rev 12,0 2/10/03

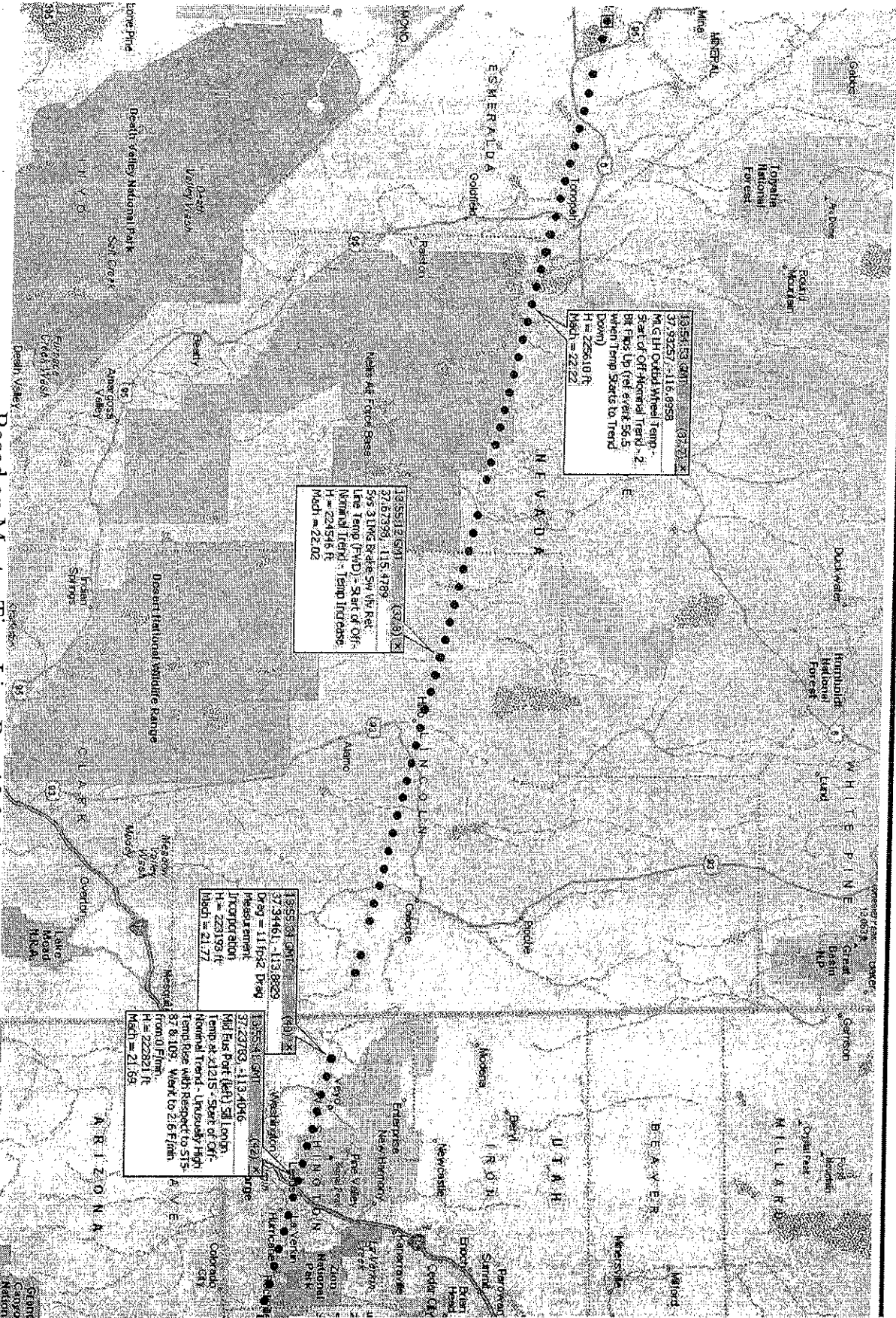


Crossing California



Based on Master Time Line Rev 12,0 2/10/03

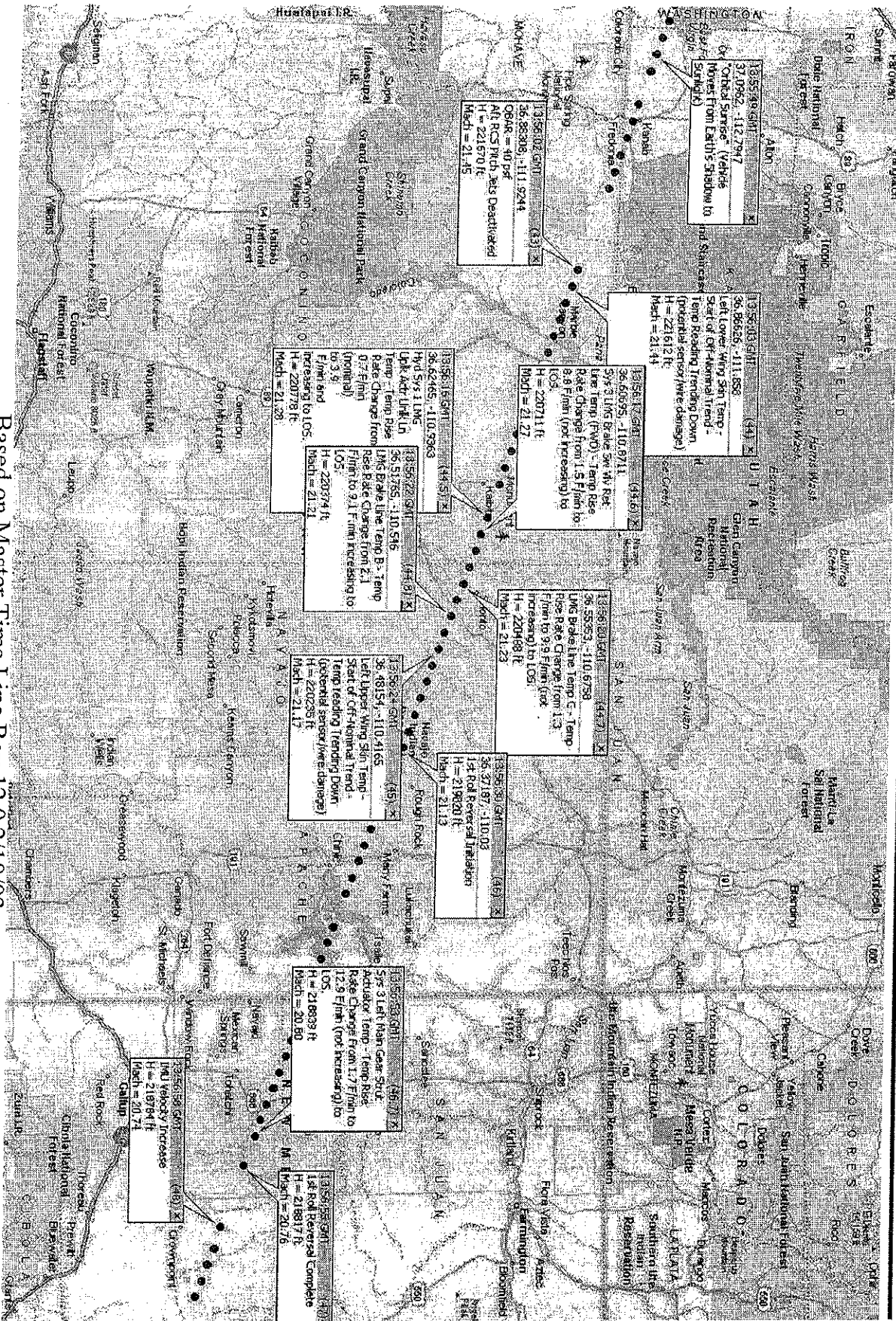
Crossing Nevada



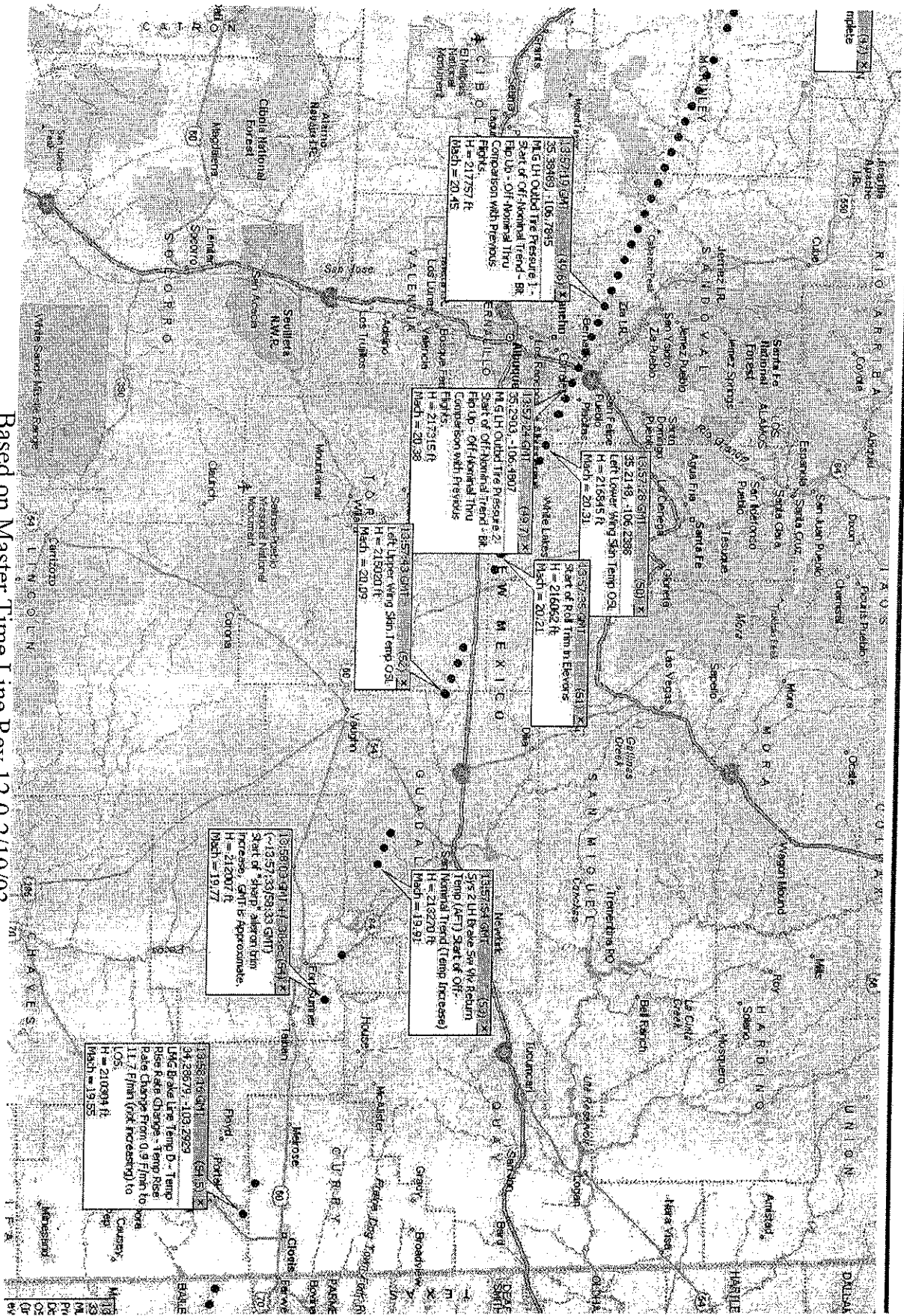
Based on Master Time Line Rev 12.0 2/10/03

Crossing Arizona

Based on Master Time Line Rev 12,02/10/03

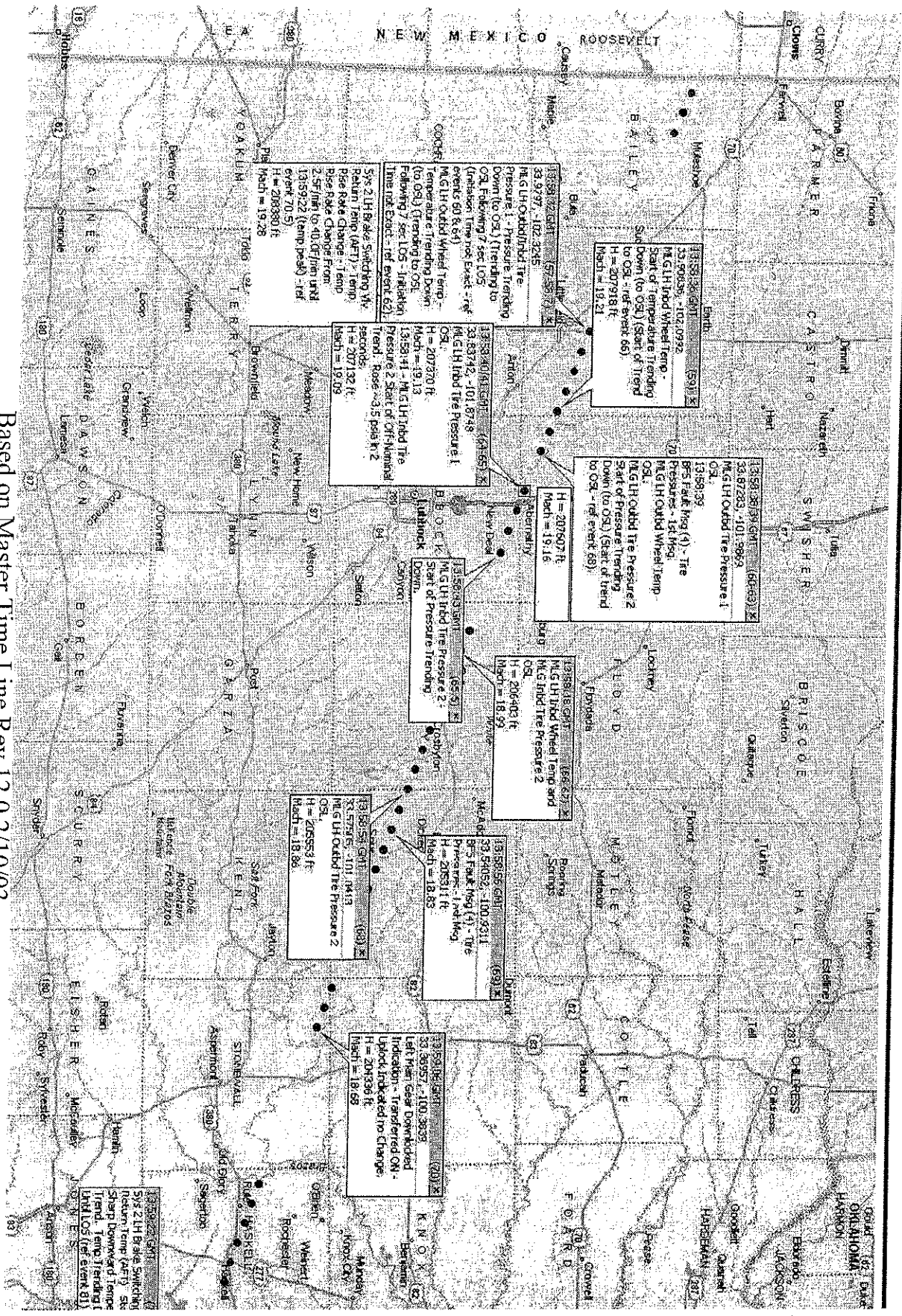


Crossing New Mexico



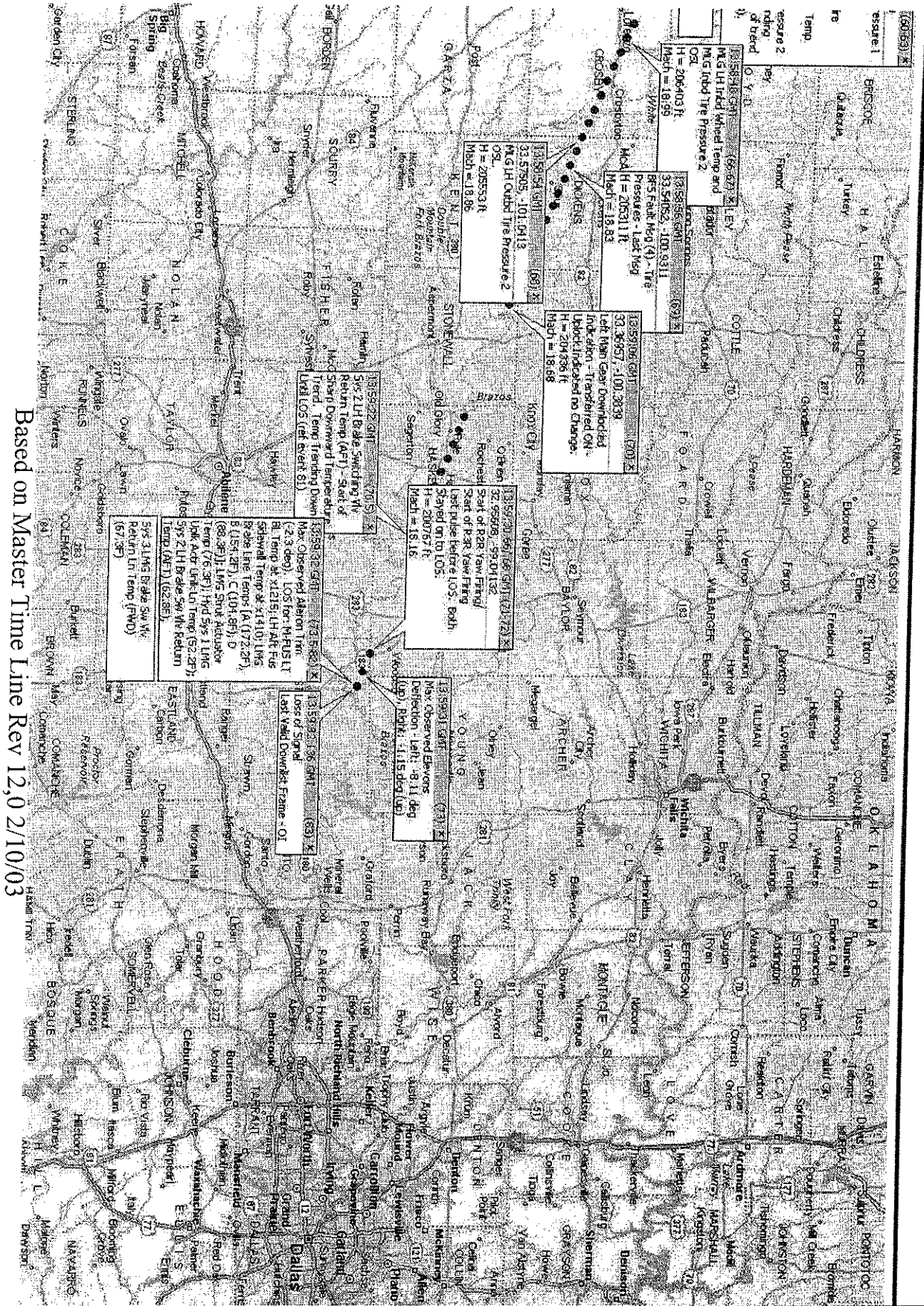
Based on Master Time Line Rev 12,0 2/10/03

Crossing from New Mexico to North Texas



Based on Master Time Line Rev 12,0 2/10/03

Crossing Texas to Loss of Signal



Based on Master Time Line Rev 12.0 2/10/03

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Subject: STS-107 MIT EOC ONBOARD and Digital Video

Date: Fri, 14 Feb 2003 10:09:46 -0600

X-Mailer: Internet Mail Service (5.5.2653.19)

Handling and deliverable products have been updated:
<<MIT Video Processing.doc>>

EOC tapes are up to date and latest partial D2 delivered, VITC on the D2's
is forced on to help with timing problems:

<<STS107EOCHANDLIST.doc>>

and the other lists:

<<STS107DIGITALLIST.doc>> <<STS107DVONBDLIST.doc>> <<STS107MITLIST.doc>>

Jason Fennelly
Mission Video
Voice: 281-483-0925



MIT Video Processing1.doc



STS107EOCHANDLIST5.doc



STS107DIGITALLIST3.doc



STS107DVONBDLIST1.doc



STS107MITLIST3.doc

STS-107 MIT Video Processing Procedures as of 2/5/03
Video received from MIT, NASA, Government and the Public

This procedure is generated in order to meet the requirements defined by ISD-GP. Television Operations will process all videotapes and other video media relating to the investigation of STS-107. NASA ISD and IMPASS Management will coordinate efforts to receive videotapes and related media destined for JSC to be checked in at JSC Television Operations, Bldg. 8. Upon receipt, Television Operations staff will:

- Sort materials into bags such as Film, CDs, Memory sticks, a delivery to appropriate organization that handles this data. An IMPASS TV OPS transmittal form will be completed listing all items to be transferred. The individual accepting the materials needs to sign this form when receiving the materials. Return this form to the TV Ops Supervisor for record keeping purposes. Film can be delivered to Photographic Lab Supervisor and Bob Bode.
- Log all tapes and media received in the STS-107 Investigation: Global Tracking List (MIT video will be processed using the Mission Onboard Processing Procedure). The master list will identify: REF ID, Date received, Media Identification and attached materials, Received from, Media Type, Process, Media Destination Location, Total Time, Audio, and Op.
- Media will then be processed with established procedures.
- The Master List will be e-mailed daily to ISD Television Ops Technical Monitors (Ed Wilson, Pat Chimes), Television Engineering and Operations Manager and Office (Jeff Van Pelt, Janet Salazar), Television Operations Supervisor (David Tharp), Television Operations Leads (Rick Canter, Jason Fennelly, IMPASS IT Manager, Videotape Repository Supervisor (Silvia Stewart), CB Representative (Marsha Ivins, Sheri Locke, Stephen Frick), Engineering Analysis Management (Jon Disler, Greg Byrne), EOC Analysis (Don Liddle), EOC ISD (Jennifer Lestourgeon) and DL ESAT.

The videotapes or video media will be logged as follows:

- REF ID: a line item number to refer to media, not physically attached.
- Date received: date ISD received media.
- Media Identification and attached materials: a description of what the media is and a description of materials attached with media.
- Received from: the entity or individual ISD received the media from (MIT, SN Engineering, Jon Q. Public, etc...).
- Media Type: a designator of the type of media (DVCAM, Quicktime, WAV audio file, etc..)
- Process: a designator of the procedure used to process the media (MIT DVCAM, EOC Process, Digital, etc..).
- Media Destination Location: where the media resides after processing.
- EOC or MIT Number: references EOC and MIT tracking number if assigned
- Release Authority: Contact for dubs and distribution.
- Op: Initials of the TVOps operator that processed the media, Initials correspond to full name on Tape List.
- No Video Tape or Video Media will be made available on an insecure network or VAMS Scenelisting system without direction from the Release Authority

STS-107 MIT DVCAM Processing Procedures

- Tapes received from the Mishap Investigation Team will be logged into the STS-107 Investigation: Global Tracking List
- A minimum of two people will be involved in the handling and processing of all returned 107 mishap tapes to assure consistent processing.
- Only those personnel required to process the videotapes will be involved in the processing
- Tape will be labeled with a MIT DVCAM ID label.
- The tape will be logged by ID #, Date received, Tape label text, Cut#, Converted Digibeta#, Part#, Data Stamp Start and Stop (if present), SMPTE Start and Stop, Total Time, Audio, and Operator initials.
- Tape will be timed out for length.
- Shuttling FWD/REW of tapes will be limited to timing only.
- Random Viewing by other personnel is not allowed.
- Master Digibeta is numbered. One minute of Bars and Tone will be recorded.
- 10-15 seconds of slate identifying DVCAM ID# and Tape Label Text will be recorded.
- The transfer of DVCam tape will be handled in the Digital domain via VDRPS SDI paths.
- Operator will monitor video content and audio, identifying by time code on tape log of any video that contains human remains.
- All tapes will be labeled and identified as Restricted. Stickers will be applied to tape, tape case, and tape log.
- Additional DV tapes will be added as cuts to the Digibeta if enough remaining time exists.
- Copies of logs will be maintained with the Digibeta tape, and a master log held by Mission Video.
- Completed tapes will be sent to the library. Tapes will be secured at all times.
- Library staff will enter cataloging information into a Restricted classification in VRDS.
- DVCam and Digibeta tapes, will be secured and locked during off shift hours, stored in a water resistant blue bin container. The tapes will be located in Bldg.8 Mission Video until complete and delivered to Library. DVCam originals will be sent to the library with the master tape for secure storage.
- Dubs of MIT DVCam Digibeta Masters will be initiated by the ISD Television Operations Technical Monitor until Release Authority is identified. All dubs will be labeled and identified as restricted until that designation has been removed by the Mishap Investigation Team. Work will be tracked under TSR 68666.

Digital Video Files Process

Applies to video files received from Public

- Digital Video files received through HSF or ColumbiaImages e-mail will be placed on IMAGES1/sts-107/Video/_incoming/XXXXX(date) folder by Photography Lab Supervisor. TVOps will scan IMAGES1/sts-107/_Incoming/from_FTP/video1/.
- Mission Video moves the files to a STS107 share directory on Television Operations Videocap2 ITS in a folder designated by the date. Files are logged into the STS-107 Investigation: Global Tracking List.
- Files are burned to CD-ROM to be processed on Visual Production Laboratory ITS 1.
- Files are manipulated in Adobe Premiere, Quicktime and Cleaner 5 to produce standardized broadband Quicktime and Windows Media Video files. Clips are renamed as STS107CLIP00XX.mov and .wmv, then burned to CD-ROM.
- Created files are moved to Videocap2 ITS share directory in a folder with the same name as the STS107CLIP name.
- Original files are transferred to Videocap1 ITS station to be opened and catalogued by Scenelisting in Notepad. The description is referenced to counter time. The operator provides a text file. Clip Name, Original Media Name, and contact e-mail is added above the description. If the original media file can not be converted, a notation precedes the description. The text of the original e-mail, if present, is added after the description. The text file is moved to the STS107CLIP folder on the Videocap2 ITS.
- The original file and e-mail is added as a subfolder to the STS107CLIP folder.
- If the original Media file could not be standardized (such as RealMedia), the original is copied and renamed as STS107CLIP00XX in the main folder.
- Files are moved back to Videocap2 Share STS107CLIP folder designated for upload to IMAGES1.
- Mission Video uploads CLIP folders to a IMAGES1/sts-107/Video/ directory, the folder executes writing to the web page.
- Audio clips received are dropped into an Audio folder on the Videocap2 ITS share directory along with the original e-mail.
- Corrupted files are dropped into a Corruptedfiles folder on the Videocap2 ITS share directory along with the original e-mail.
- Files having no relevance to the investigation will be placed in a hoax folder.
- Work will be tracked under TSR 68667.

Video tapes received from the Emergency Operations Center and hand delivered

- Tapes will be received from the EOC in Bldg.8, TVOps operator will sign EOC receipt document. A copy will be made for the STS-107 MIT Global Video Binder.
- Videotape will be logged in the STS-107 Investigation: Global Tracking List
- Videotape reviewed by EOC contact and TVOps Operator
- Tape will be logged into the STS-107 EOC List, identifying: sighting or debris, location, received from and EOC number.
- Tape will be transferred to Digibeta and D2 with a 15 second identification slate. D2 will have VITC turned to on for Analysis/SN.
- 3 copies of the EOC documentation will be made. Original paperwork will stay with original media, a copy is to be placed in the STS-107 MIT / EOC Global Video Binder, a copy is to be palced with the Digibeta, and a copy with the D2.
- Partial D2 tapes will be delivered with appropriate log and copies of original documentation for SN/SX with partiald TSR 68665.
- A DV Clone will be made of all DV tapes received and delivered with partiald TSR 68665. For SN/SX.
- Completed masters will have 2 VHS copies made for Kelly Beck/EOC/MER delivery with partiald TSR 68665.
- The TDF will provide copies of EOC documentation and logs to each center in the followinf formats under TSR 68728:
 - MICHOUD: VHS and DVD
 - KSC: Digibeta
 - MSFC: Digibeta
 - Huntington Beach: SVHS
- Tapes will be secured and locked in Bldg.8 Mission Video
- Library will secure tapes in Bldg. 12 vault after EOC determination

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rec'd	Title	Received From	Cut #	Digitals #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
19	2/6/03	Launch, Cocoa Beach Pier		4	716091	01:08:00	01:10:45	0:02:45	Dig-8	Shuttle launches behind hotel, no detail.	2-4-0019	ISD TM	SK
20	2/6/03	Landing, NE Fort Worth. VHS dub of camcorder		11	716117	20:56:00	20:57:40	0:01:40	VHS		2-4-0020	ISD TM	JF
21	2/6/03	St. George, Utah		12	716117	03:06:00	03:07:16	0:01:16	VHS		2-4-0021	ISD TM	JF
22	2/6/03	KGENTV Shuttle Columbia Footage Eddy, Texas looking North		6	716091	01:13:00	01:14:21	0:01:21	DVCPio VHS		2-4-0022a	ISD TM	SK
23	2/6/03	Columbia, Feb. 1, 2003 8am CST Carrollton, TX		13	716117	03:19:00	03:20:13	0:01:13	8mm VHS		2-4-0022b	ISD TM	
24	2/6/03	Columbia Reentry		14	716117	03:26:00	03:27:05	0:01:05	8mm VHS		2-4-0023a	ISD TM	
25	2/6/03	Columbia Reentry		15	716117	03:53:00	03:58:39	0:05:39	MiniDV CD	Re-entry Blue Sky Full, 1/2 speed and 2X DVCAM Clone provided	2-4-0024a 2-4-0024b	ISD TM	JF
26		Columbia Shuttle Camp Swift Bastrop, TX		21	716117	06:50:00	06:53:27	0:03:27	VHS	EP Mode. Can not dub at this time	2-4-0025	ISD TM	JF
27		Line Intentionally Left Blank											JF
28	2/6/2008	See Photo Log											JF
29	2/6/2008	Columbia over St. George Utah, copyright VIP Media		16	716117	04:33:00	04:37:56	0:04:56	MiniDV CD	Dark sky, Columbia overhead DVCAM clone provided	2-4-0028a 2-4-0028b	ISD TM	JF
30	2/6/03	STS-107 Re-entry Cerillos, New Mexico		17	716117	04:47:00	04:48:42	0:01:42	VHS	Very detailed info attached.	2-4-0029	ISD TM	JF
31	2/6/2008	Space Shuttle Columbia Re-entry Las Vegas, NV. West Northwest to East		5	716091	01:11:00	01:12:39	0:01:39	Dig-8		2-4-0030	ISD TM	SK
32	2/6/03	KT/VK Video of Columbia 21/103		7	716091	01:14:40	01:17:46	0:03:06	Beta SX	Looks like a dub from camcorder.	2-4-0031	ISD TM	SK
33	2/6/03	Shuttle Columbia Disaster Video 7:59:20 Lafayette, LA 30d0930.2" 92d02:05.2"		18	716117	05:08:00	05:10:30	0:02:30	VHS	Chief Meteorologist Elevation 29 feet	2-4-0032	ISD TM	JF
34	2/6/2008	Space Shuttle exit 23 1-15 Southern Utah facing East Prints to Photo		19	716117	05:18:00	05:21:24	0:03:24	MiniDV	Dark	2-4-0033A	ISD TM	JF
35		STS-107 Re-entry Bissenger/Reno, NV Shuttle Pass, Clock and Camera Photo		20	716117	05:35:00	05:50:32	0:07:32	BetaSP	Timing information listed on EOC attachment	2-4-0034	ISD TM	JF
36		Photo											
37	2/6/2008	KDFW/FOX Views from Corsicana		8	716091	16:07:00	16:08:21	0:01:21	Beta SP	Some closeups, through trees	2-4-0037	ISD TM	
38	02/07/03	KABC-TV Glendale, CA Mt. Santiago Facing 80 - 90 Degrees 9am-12noon							Beta SP	Maybe of debris falling from sky.		ISD TM	
39	02/07/03	DAT Tape of Sonic Boom in Petaluma, CA IMPASS NOTE: GIVEN TO ACR FOR 1 VHS							DAT Tape	Sonic Boom			

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digibeta #	SMPT# START	SMPT# STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
40	2/14/02	Sighting:											
41		Photo							VHS		24-0040		
42	02/07/03	Sighting: Grovelton, Tx		14	716091	08:13:01	08:14:31	0:01:30	VHS-C	Good Video of Break-up	24-0042	ISD TM	CD
43		Photo											
44	02/07/03	Sighting: south of Hanksville, Utah GPS 110 degrees 43.65° 38 Degrees 14' 20"		9	716091	07:08:18	07:09:48	0:01:30	VHS		24-0044	ISD TM	CD
45	02/07/03	Data and Images from Starfire and AMOS							CD	CD copy made for Analysis	24-0038	DOD	JF
46		Photo											
47	02/07/03	Video is of Fox News							VHS	Camera set up to record Fox News	24-0047	ISD TM	
48		Photo											
49	02/07/03	Sighting: Washington, Utah		10	716091	07:16:30	07:17:50	0:01:20	H-8mm	Good View	24-0049	ISD TM	CD
50	02/07/03	Sighting: 06:56 am MST. St. George, Utah		11	716091	07:33:05	07:33:30	0:00:25	Digit 8	Good View	24-0050	ISD TM	CD
51	02/07/03	Sighting: Hailom City, Tx. South of Dallas / Fort Worth		15	716091	08:21:00	08:21:54	0:00:54	VHS	Good View	24-0051	ISD TM	CD
52													
53													
54	2/10/03	Sighting: Euless TX			716091	17:25:05	17:26:03	0:00:58	VHS	Good view of break up but video is ver shaky.	D101-0009	ISD TM	LM
55	2/07/03	STS-107 Re-entry Video over Sparks, NV		16	716091	08:26:00	08:27:35	0:01:35	H-8mm		24-0055	ISD TM	CD
56	2/07/03	Video from Lick Observatory MT. Hamilton, CA		12	716091	07:56:34	07:58:21	0:01:47	H-8mm	This ID contains a mini DV copy of this H-8mm tape	24-0056	ISD TM	CD
57	2/07/03	Video from Weather Camera in Los Angeles On Santiago Peak		17	716091	08:38:26	08:39:33	0:01:07	Beta Sp	Time Lapse Video 1 frame every 10 seconds	24-0057	ISD TM	CD
58	2/07/03	Re-entry from Whitaker Park, CA		13	716091	08:02:45	08:04:08	0:01:23	Mini DV		24-0058	ISD TM	CD
59	2/07/03	Sighting: Coarsegold, CA		18	716091	08:46:32	08:47:51	0:01:19	Mini DV		24-0059	ISD TM	CD
60	2/08/2003	Sighting: Southern UTAH		19	716091	20:56:00	20:56:18	0:02:18	Beta Sp	Views of video that we have seen before.	24-0060	ISD TM	JF

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digitbeta #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
61	2/8/03	Sighting: Over Arizona DUPLICATE VIDEO							BetaSP VHS		24-0061	ISD TM	LM
62	2/8/03	7 views of Columbia deorbit From CBS News							BetaSX		24-0062	ISD TM	CD
63													
64	2/10/03	Lockheed Missile & Space Fairfield, CA Lockheed Missile & Space Fairfield, CA (Data Code)			716091	20:00:41	20:52:18	0:01:37	Digi 8mm	5:51am Columbia Shuttle, Fairfield California, Lionel Machado	24-0064	ISD TM	LM
65	2/10/03	Sighting: Richardson, TX		1	716119	20:28:01	20:30:41	0:02:40	VHS	Good Clear Video, original tape has video tracking problem	24-0065	ISD TM	LM
66	2/11/03	Sighting: Romans, CA Second cut has data stamp		2	716119	16:29:40	16:31:18	0:01:38	Digi-8 DATA	Dark sky, horizon, internal digital adjustments.	24-0066a	ISD TM	JF
67	2/11/03	Sighting: Albuquerque, NM		3	716119	16:51:10	16:52:43	0:01:33	Beta SP	Quick image of small white dot, wide shot of contrail	24-0066b		
68	2/11/03			4	716119	17:19:01	17:20:15	0:01:14			24-0067		
69	2/11/03	Sighting: Hurricane, UTAH											
70	2/11/03	Sighting: Bishop, California		9	716119	18:07:02	18:08:04	0:01:38	VHS				
71	2/11/03	NAVAIR China Lake Naval Air Weapons Station Bldg 451		5	716119	17:30:00	17:30:54	0:00:54	Hi-8mm	Shaky video, daylight	24-0070		
72	2/11/03	Sighting: San Rafael, California		6	716119	17:43:30	17:46:57	0:03:27	Mini DV	Sequence of events refers to time code on tape. 4:43:05 is four minute	24-0072		
73	2/11/03	Sighting: Fort Worth, Texas		7	716119	17:56:38	17:58:15	0:01:37	VHS	Poor image quality	24-0073		
74	2/11/03	Sighting: Fort Worth		8	716119	18:01:02	18:04:05	0:03:03	VHS		24-0074		
75	2/11/03	Debris: Dallas, Texas							VHS	Processing on hold			
76	2/11/03	Sighting: Rowlett, Texas		10	716119	18:14:00	18:15:38	0:01:38	VHS	Street camera video, 8 hours			
77	2/11/03	Sighting: multiple views from NBC		11	716119	19:04:00	19:17:24	0:13:24	Beta SP	Includes shots filmed on TV	24-0077		
78	2/11/03	Sighting: Kirkwood, MO		12	716119	19:22:00	19:25:28	0:03:28	Digi Beta	Launch video from Titusville, FL	24-0078		
79	2/11/03	Sighting: Bessemer City, NC		13	716119	19:36:00	19:46:02	0:10:02	VHS	Launch video, bad tracking problems	24-0079		
80	2/11/03	Sighting: Dallas, TX		14	716119	19:54:05	19:57:05	0:03:00	VHS		24-0080		
				15	716119	19:59:01	19:59:34	0:00:33	VHS				

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digibeta #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
81	2/1/03	Sighting: Whitney, TX		16	716119	20:06:31	20:07:38	0:01:07	VHS	South of Arlington	24-0081		
82	2/1/03	Sighting: Sulphur Springs, TX		17	716119	20:11:01	20:13:00	0:01:59	VHS		24-0082		
83	2/1/03	Sighting: Clip from Fox news		18	716119	20:19:05	20:19:28	0:00:23	VHS		24-0083		
84	2/1/03	Sighting: Dallas, TX		19	716119	20:25:00	20:25:28	0:00:28	8mm	Southeast of Dallas	24-0084		
85	2/1/03	Sighting: Red Oak, TX		20	716119	20:28:30	20:33:31	0:05:01	VHS	32.53 deg N, 96.77 deg W, very clear distinct video	24-0085		
86	2/1/03	Sighting: Launch		21	716119	20:47:00	20:50:14	0:03:14	VHS		24-0086		
87	2/1/03	Sighting: Mesquite, TX		22	716119	20:57:03	20:58:21	0:01:18	VHS		24-0087		
88	2/1/03	Sighting: Baton Rouge, LA		23	716119	21:04:30	21:05:29	0:00:59	VHS	Looks like an aircraft	24-0088		
89	2/1/03	Sighting: Corsicana, TX		24	716119	21:11:00	21:12:20	0:01:20	8mm		24-0089		
90	2/1/03	Sighting: Fayetteville, GA		25	716119	21:19:06	21:23:17	0:04:11	VHS		24-0090		
91	2/1/03	Sighting: Crockett, TX		26	716119	21:26:06	21:28:54	0:00:48	VHS		24-0091		
92													
93	2/12/03	Sighting: Mesquite, TX		1	716121	17:03:35	17:05:07	0:01:32	DVD-R		24-0093		
94													
95													
96													
97													
98	2/12/03	Sighting: Santa Clara, UT		2	716121	17:35:30	17:36:55	0:01:25	Hi-8mm		24-0098		
99													
100													
101													
102	2/12/03	Sighting: Dallas, TX TRANSFERRED TO PHOTO							CD		24-0102		
103													

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digibeta #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
104	2/12/03	Sighting: CDRom Copy made of original							CDRom		24-0104		
105	2/12/03	Sighting: Concord, NC		3	7/16/121	17:43:45	17:46:06	0:02:21	VHS		24-0105		
106													
107													
108	2/12/03	Sighting: Round Rock, TX		4	7/16/121	17:56:31	17:57:58	0:01:27	DVD-R		24-0108		
109	2/12/03	Sighting: McKinney, TX		5	7/16/121	18:12:29	18:15:20	0:02:51	DVCam		24-0109		
110													
111													
112													
113													
114													
115													
116	2/12/03	Sighting: Moorpark, CA		6	7/16/121	18:22:00	18:23:37	0:01:37	8mm		24-0116		
117													
118	2/12/03	Sighting: Arlington, TX		7	7/16/121	18:23:31	18:24:20	0:00:49	DVD-R		24-0118		
119													
120	2/12/03	Sighting: Waxahatche, TX		8	7/16/121	19:03:52	19:06:20	0:02:28	DVD-R		24-0120		
121													
122													
123													
124													
125	02/12/03	Sighting: Auburn, CA		9	7/16/121	05:48:00	05:52:15	0:04:15	DVCam	Colombia passing over CA @ 5:53am, I-80 @ Weimer Cross Rd	24-0125		
126													

STS-107 EOC and Hand Delivered Tapes

Ref ID	Date Rcvd	Title	Received From	Cut #	Digitbeta #	SMPTE START	SMPTE STOP	Length	Tape Format	Content	EOC#	Release Authority	Op
127													
128													
129													
130													
131													
132													
133													
134													
135													
136	2/13/03	Sighting: Mill Valley, CA		12	716121	17:29:00	17:31:08	0:01:08	Hi-8mm		240136		
137	2/13/03	Debris: Mathville, LA		13	716121	17:45:00	17:49:06	0:04:06	VHS-C		240137		
138	2/13/03	Sighting: Bedford, TX		14	716121	17:57:00	18:02:05	0:05:02	VHS		240138		
139													
140	2/13/03	Sighting: Fort Worth, Texas		15	716121	18:17:00	18:17:43	0:00:43	VHS		240140		
141	2/13/03	Sighting: B SKY B news clip from Britain							VHS	Tape is unusable	240141		
142													
143													
144													
145													
146													
147													
149													
150													

STS-107 Investigation: Digital Files

Tape Format: Various
Recipient: Civil Service

Serial Number: Ed Wilson 483-7736, Patrick Chines 483-2397, Rick Slater 483-7723

Description of * (asterisk) in Data Stamp column: F - Full Data Stamp, P - Partial Data Stamp, N - No Data Stamp, S - Data Stamp starts and stops

Date Received: IMPASS
Recipient:

Date Received:

Logging Team: Opr. Team BT - Trainor
 Members: C -

CD - Dupla
 DD - Dullig
 JC - Clemmons
 JF - Fennelly

JW - Wheeler
 LS - Salazar
 RG - Geeseman
 SK - Karr

SZ - Zarella
 TH - Henson
 TS - Starks
 Y - Mitchell

O - KirkOlson

Processing start date/time:

Processing completion date/time:

Ref ID	Date Rcvd	Media File Name	Received From:	Media Type	Content	Original File Name	Length	Release Authority	Op
1	02/01/03	STS107CLIP0001		Digital AVI Movie	Columbia reentry, day	Billjanes2.zip, full avi, Billjanes@atbl.txt	0:01:44	ISD TM	JF
2	02/01/03	STS107CLIP0002		Digital Real Media	Columbia reentry, night	Fredbrunjes_020103_1005pm.rm Fredbrunjes_020103_1005pm.txt	0:0:13	ISD TM	JF
3	02/01/03	STS107CLIP0003		Digital MPEG	Columbia reentry, night	MOV00439-2.MPG	0:00:11	ISD TM	JF
4	02/01/03	STS107CLIP0004		Digital MPEG	Columbia reentry, day	thomastssell_020103am.mpg thomastssell_020103am.txt	0:02:25	ISD TM	JF
5	02/03/03	STS107CLIP0005		Digital Real Media	Columbia reentry, night	Columbia.rm, email.txt	0:00:32	ISD TM	JF
6	02/03/03	STS107CLIP0006		Digital WMAV	Columbia reentry, day	Columbia_fullcomp_large02.wmv, email.txt	0:01:26	ISD TM	JF
7	02/04/03	STS107CLIP0007	David.p.fancrei@usago.ksc.nasa.gov	Digital MPEG	KSC Ice and Debris team film analysis	107film1.pdf, E212.mpg, email.txt STS107CLIP0007	0:00:17	ISD TM	JF
8	02/04/03	STS107CLIP0008		Digital AVI	Columbia reentry, day	MarioValverde_020303_0730pm.avi MarioValverde_020303_0730pm.txt	0:00:54	ISD TM	JF
9	02/04/03	STS107CLIP0009		Digital Quicktime	Columbia reentry, day	100_0360.mov, 100_0360.txt	0:00:24	ISD TM	JF
10	02/05/03	STS107CLIP0010		Digital MPEG	Columbia reentry, day	Columbia 4 seconds.mpg, email.txt		ISD TM	TH
11	02/05/03	STS107CLIP0011		Digital AVI	Columbia Reentry, day	Columbiasesquize2.avi Columbiasesquize2.txt		ISD TM	TH
12	02/05/03	STS107CLIP0012		Digital Quicktime	Columbia Reentry, night	P2010077.mov Email.txt		ISD TM	TH
13	02/05/03	STS107CLIP 0013		Digital MPEG	Columbia Reentry, day	DanMcNew.mpg, DanMcNew.txt		ISD TM	TH
14	02/05/03	STS107CLIP0014		Digital WMAV	Columbia Reentry, day	Space Shuttle.wmv, email.txt		ISD TM	TH
15	2/06/03	ST107CLIP0015		Digital MPEG	Santa Cruz Airplane?	Shuttle.mpg	0:00:15	ISD TM	JF
16	2/06/03	ST107CLIP0016	Ahutchison@mail.arc.nasa.gov	Digital MPEG	Shuttle Launch	columbia_clip.mpg	0:00:06	ISD TM	JF
17	2/06/03	ST107CLIP0017		Digital MPEG	Columbia entry, Lubbock	Space Shuttle.wmv	0:00:47	ISD TM	JF
18	2/06/03	ST107CLIP0018		Digital WMAV	Columbia Launch	Feb06_05.avi	0:00:10	ISD TM	JF
19	2/06/03	ST107CLIP0019		Digital AVI	Columbia Launch	Columbia Launch.mpg	0:00:43	ISD TM	JF

STS-107 Investigation: Digital Files

Ref ID	Date Rcvd	Media File Name	Received From	Media Type	Content	Original File Name	Length	Release Authority	Op
20	2/7/03	ST107CLIP0020		Digital RealMedia	Reentry, night Duplicate of EOC Imagery	AnthonyFandali020503_1818.rm	0:46:00	ISD TM	
21	02/09/03	ST107CLIP0021		Digital MPEG.MOV, WMV	Reentry, Day	Mvc-175w.mpg, wmv, mov	0:00:05	ISD TM	
22	02/09/03	ST107CLIP0022		Digital MPEG.MOV, WMV	Reentry, Day	Mvc-635V.mpg, wmv, mov	0:00:05	ISD TM	
23	02/06/03	ST107CLIP0023		Digital AVI	Columbia Launch	Feb06_06.avi	0:00:10	ISD TM	TH
24	02/06/03	ST107CLIP0024		Digital AVI	Columbia Launch	Feb06_24.avi	0:00:10	ISD TM	TH
25	02/13/03	STS107CLIP00	Knightoraman@JSC.NASA.GOV	Digital WMV	Columbia Reentry Night	STS107.WMV	0:00:50	ISD TM	Th
26	02/13/03	STS107CLIP00		Digital WMV	Columbia Reentry Night	STS107.WMV	0:00:50	ISD TM	Th
27	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_10_07_02_0957am.mpg	0:00:15	ISD TM	Th
28	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_10_07_02_0957am.mpg	0:00:14	ISD TM	Th
29	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_100802_0612am.mpg	0:00:28	ISD TM	Th
30	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_100802_0620am.mpg	0:00:15	ISD TM	Th
31	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_100802_0622am.mpg	0:00:14	ISD TM	Th
32	02/13/03	STS107CLIP00		Digital MPG	Prelaunch Tile Footage	Bobblaser_100802_0630am.mpg	0:00:09	ISD TM	Th
33									
34									
35									
36									
37									
38									
39									
40									

STS-107 MIT Video Tape List

Tape Format: DVCam **Civil Service Recipient:** Ed Wilson **Date:** 02/04/03 **IMPASS Recipient:** David Tharp **Date:** 02/04/03
Serial Numbers, Other Information: **Received:** Patrick Chimes **Received:**

ISD Contacts: Ed Wilson 483-7736, Patrick Chimes 483-2397, Rick Slater 483-7723
Description of * (asterisk) In Data Stamp column: F - Full Data Stamp, P - Partial Data Stamp, N - No Data Stamp, S - Data Stamp starts and stops

Logging Team: **Op: Team:** BT - Trainor **CD - Dupla** **JC - Clemens** **JW - Wheeler** **RG - Geeseman** **SZ - Zarella** **TS - Starks** **Y - MichlYouts**
Members: C - **DD - Duling** **JF - Fennelly** **LS - Salazar** **SK - Knarr** **TH - Henson** **O-KirkOlson**

Logging/timing start datetime: _____ Processing start datetime: _____

Processing completion datetime: _____

Tape ID	Date Rcvd	Tape Label Text	CUT #	Conv. Digibet#	PART #	* Start	Stop	Start	Stop	SMPTE	Total Time	A	Op
1	02/04/03	OTHER - 1 Army Flir 2/1/03	1	716087		N		23:46:00	23:48:47		0:02:47	Y	JF
3	02/04/03	Team 1 Aerials: Bar - 2 2/2/03	3	716087		N		16:43:00	16:57:47		0:14:47	Y	SZ
4	02/04/03	Gregory Interview B-Roll Bar - 3 02/02/03	4	716087		N		17:04:15	17:11:07		0:06:52	Y	SZ
5	02/04/03	Team 4 T4-1 2/02/03	5	716087		N		17:16:30	17:27:03		0:10:33	Y	SZ
6	02/04/03	2/02/03 MIT MITG B-Roll	6	716087		N		17:39:30	17:52:36		0:13:06	Y	SZ
7	02/05/03	Bar-4 Crew Transfer 2/05/03	7	716087		S	02/05/03 09:13:17	02/05/03 10:21:05	14:26:30	14:52:06	0:25:36	Y	SZ
8	02/06/03	2/2/03 1 MIT M for B-Roll	8	716087		N		10:52:00	11:05:26		0:13:26	Y	SK
9	02/07/03	Bar - 5 02/05/03 debris	9	716087		S	02/05/03 16:17:22	02/05/03 16:36:51	19:09:00	19:19:10	0:10:10	Y	SZ
10	02/07/03	Bar - 6 1st Big Debris Shipment 2/6/03	1	716118		S	02/06/03 18:39:58	02/06/03 20:14:19	19:32:00	19:43:44	0:11:44	Y	SZ
11	02/07/03	Bar - 7 Nose Cone Arrival at Barksdale Feb. 6, 2003	2	716118		S	02/06/03 21:42:43	02/06/03 22:13:20	19:49:05	20:04:47	0:15:42	Y	SZ
12	02/07/03	Bar-8 PAO Debris 2/7/03	3	716118		S	02/07/03 11:26:32	02/07/03 11:38:42	22:09:00	22:14:05	0:05:05	Y	JF
13	02/12/03	Bar-9 BAFB MEM SUS. 2/8/03 1 of 2	4	716118		N		14:01:00	14:43:03		0:42:03	Y	SK
14	02/12/03	BAR-10 BAFB Memorial Svc. 2/8/03 2 of 2	5	716118		N		14:48:00	14:56:30		0:08:30	Y	JF
15	02/12/03												
16	02/12/03	Debris Hangar (BAFB) Media Opportunity Feb. 10, 2003 BAR-12	7	716118		S	02/10/03 11:02:28	02/10/03 12:10:12	15:19:01	15:31:02	0:12:01	Y	JF
17													

From: "JOHNSON, GARY W. (JSC-NA) (NASA)" <gary.w.johnson@nasa.gov>
To: "Mark Kowaleski" <mkowales@hq.nasa.gov>,
"ERMINGER, MARK D. (JSC-NC) (NASA)" <mark.d.erminger@nasa.gov>,
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prutledg@mail.hq.nasa.gov
Cc: "CAZES, DAVID (JSC-NA) (SAIC)" <david.cazes1@jsc.nasa.gov>
Subject: RE: RTQs to address role of SMA in decision to image Columbia
Date: Fri, 28 Feb 2003 13:30:47 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

Mark Kowaleski we will call you at 4 PM HQ time/3 PM JSC to discuss the writeup. I plan to have Mark Erminger & David Cazes on the telecon. We will call your number 202-358-0751.

-----Original Message-----

From: Mark Kowaleski [mailto:mkowales@hq.nasa.gov]
Sent: Friday, February 28, 2003 11:29 AM
To: JOHNSON, GARY W. (JSC-NA) (NASA); ERMINGER, MARK D. (JSC-NC) (NASA);
MARSHALL, YOLANDA Y. (JSC-NA) (NASA); jlloyd@mail.hq.nasa.gov; CARD,
MIKE (JSC-REMOTE); prutledg@mail.hq.nasa.gov
Subject: RTQs to address role of SMA in decision to image Columbia

Here is a draft.

Thanks everyone for your inputs.

I'm fuzzy on a few details, but I think it is a good start.

Maybe we could have a brief telecon to discuss?

Thanks,

Mark

FENNELLY, JASON L. (JSC-GA) (IDI), 05:27 PM 2/12/2003, RE: STS-107 MIT EOC ONBOARD and I

From: "FENNELLY, JASON L. (JSC-GA) (IDI)" <jason.l.fennelly1@jsc.nasa.gov>
To: "FENNELLY, JASON L. (JSC-GA) (IDI)" <jason.l.fennelly1@jsc.nasa.gov>,
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"FRICK, STEPHEN N., CDR. (JSC-CB) (NASA)" <stephen.n.frick@nasa.gov>,
"ZARELLA, SUSAN C. (JSC-GA) (DYN)" <susan.c.zarella1@jsc.nasa.gov>

Subject: RE: STS-107 MIT EOC ONBOARD and Digital Video

Date: Wed, 12 Feb 2003 15:27:19 -0600

X-Mailer: Internet Mail Service (5.5.2653.19)

Las Vegas telescope video has been encoded at half resolution. A full resolution version will be ready in the morning. D2 and VHS is available.

Jason Fennelly
Mission Video
Voice: 281-483-0925

> -----Original Message-----

> From: FENNELLY, JASON L. (JSC-GA) (IDI)
> Sent: Wednesday, February 12, 2003 2:01 PM
> To: ANTHONY CECCACCI; CHARLES BOEHL; DAVID THARP; DL ESAT; DONN LIDDLE;
> EDWARD WILSON; EILEEN HAWLEY; EILEEN WALSH; GREGORY BYRNE; imserbrv; JAMES
> MCALPIN; JANET SALAZAR; JASON FENNELLY; JEANNE NEWMAN; JEFFREY VAN PELT;
> JENNIFER LESTOURGEON; JONATHAN DISLER; JULIE ROBINSON; KELLY BECK; MARSHA
> MINS; PATRICK CHIMES; RICHARD CANTER; S. SMITH; SHERYL LOCKE; SILVIA
> STEWART; STEPHEN FRICK; SUSAN ZARELLA
> Subject: STS-107 MIT EOC ONBOARD and Digital Video
>
> A partial D2 and copies of 2 CD's of Las Vegas telescope is ready for
> pickup. We are attempting to process the BMP files into a movie that can
> be laid off to tape. Teletream engineers have looked at the original
> file and are unable to process it. Philips Electronics tech support has
> not responded. 2 partial VHS are ready for EOC/MER pickup.
> << File: STS107EOCHANDLIST.doc >>
>
> Jason Fennelly
> Mission Video
> Voice: 281-483-0925
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