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 NASA TELEVISION SCHEDULE  
 STS-135  
 ISS UTILIZATION LOGISTICS FLIGHT 7 / MPLM "RAFFAELLO"  
 REV A  
 07/08/11  
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NASA TV (Public, Education, Media Channels and HD programming) Digital Satellite C-Band Downlink coordinates for continental North America, Alaska and Hawaii:  
 Satellite = AMC 3 / Transponder = 15C / 87 Degrees West / DVB-S, 4:2:0 / Downlink Frequency = 4000 Mhz / Downlink Polarity = Horizontal / FEC = 3/4 / Data Rate =  
 38.860 MHz / Symbol Rate = 28.1115. Clients actively participating in Standard-Definition on-orbit interviews, interactive press briefings and satellite interviews must use the  
 LIMO Channel: Satellite = AMC 3 / Transponder = 9C / 87 degrees West / DVB-S, 4:2:0 / Downlink Frequency = 3865.5 Mhz / Downlink Polarity = Horizontal / FEC = 3/4 /  
 Data Rate = 6.0 Mbps / Symbol rate = 4.3404 Msps. A Digital Video Broadcast compliant Integrated Receiver Decoder is required for reception. Mission Audio is available  
 at: <http://www.nasa.gov/ntv>.

**ALL TIMES SUBJECT TO CHANGE**

This TV schedule is available via the Internet. The address is: <http://www.nasa.gov/shuttletv>  
 Launch occurred at 10:29am CT (11:29am ET) on Friday, July 8th, 2011.  
 An asterisk (\*) denotes changes made to the previous revision to the television schedule.

ORBIT	SUBJECT	SITE	MET	CDT	EDT	GMT
<b>FRIDAY, JULY 8</b>						
<b>FD 1</b>						
4	* ASCENT FLIGHT CONTROL TEAM VIDEO REPLAY	JSC	00/ 04:31	03:00 PM	04:00 PM	20:00
5	RMS CHECKOUT		00/ 06:30	04:59 PM	05:59 PM	21:59
5	* SHUTTLE WINDOW 4 MINICAM VIDEO DOWNLINK OF EXTERNAL TANK SEPARATION		00/ 07:15	05:44 PM	06:44 PM	22:44
5	RMS OMS POD SURVEY		00/ 07:20	05:49 PM	06:49 PM	22:49
6	ATLANTIS CREW SLEEP BEGINS		00/ 08:30	06:59 PM	07:59 PM	23:59
6	* "WORLD" MUSIC VIDEO FEATURE PLAYBACK	JSC	00/ 08:46	07:15 PM	08:15 PM	00:15
7	VIDEO FILE	HQ	00/ 09:01	07:30 PM	08:30 PM	00:30
7	FLIGHT DAY 1 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	00/ 09:31	08:00 PM	09:00 PM	01:00
8	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	00/ 11:31	10:00 PM	11:00 PM	03:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
<b>SATURDAY, JULY 9</b>						
<b>FD 2</b>						
11	ATLANTIS CREW WAKE UP (begins FD 2)		00/ 16:30	02:59 AM	03:59 AM	07:59
14	OBSS UNBERTH		00/ 19:35	06:04 AM	07:04 AM	11:04
14	RMS/OBSS SURVEY OF ATLANTIS' TPS BEGINS		00/ 20:50	07:19 AM	08:19 AM	12:19
18	MISSION STATUS BRIEFING	JSC	01/ 02:31	01:00 PM	02:00 PM	18:00
18	OBSS BERTH		01/ 02:50	01:19 PM	02:19 PM	18:19
19	RENDEZVOUS TOOLS CHECKOUT		01/ 03:55	02:24 PM	03:24 PM	19:24
19	CENTERLINE CAMERA INSTALLATION		01/ 04:00	02:29 PM	03:29 PM	19:29
19	ODS RING EXTENSION		01/ 04:30	02:59 PM	03:59 PM	19:59
20	MMT BRIEFING	JSC	01/ 04:31	03:00 PM	04:00 PM	20:00
22	ATLANTIS CREW SLEEP BEGINS		01/ 08:00	06:29 PM	07:29 PM	23:29
23	FLIGHT DAY 2 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	01/ 09:31	08:00 PM	09:00 PM	01:00
24	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	01/ 11:31	10:00 PM	11:00 PM	03:00
<b>SUNDAY, JULY 10</b>						
<b>FD 3</b>						
27	ATLANTIS CREW WAKE UP (begins FD 3)		01/ 16:00	02:29 AM	03:29 AM	07:29
29	RENDEZVOUS OPERATIONS BEGIN		01/ 18:05	04:34 AM	05:34 AM	09:34
30	TI BURN		01/ 21:02	07:31 AM	08:31 AM	12:31
32	ATLANTIS RPM / ISS CREW VIDEO DOCUMENTATION BEGINS		01/ 22:25	08:54 AM	09:54 AM	13:54
32	* ATLANTIS / ISS DOCKING (may not be televised live)		01/ 23:37	10:06 AM	11:06 AM	15:06

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
34	ATLANTIS / ISS CREW HATCH OPENING AND WELCOME CEREMONY		02/ 01:50	12:19 PM	01:19 PM	17:19
34	MISSION STATUS BRIEFING	JSC	02/ 02:01	12:30 PM	01:30 PM	17:30
34	SSRMS HANDOFF OBSS TO SRMS		02/ 02:35	01:04 PM	02:04 PM	18:04
35	MMT BRIEFING	JSC	02/ 04:31	03:00 PM	04:00 PM	20:00
37	ISS CREW SLEEP BEGINS		02/ 07:00	05:29 PM	06:29 PM	22:29
37	ATLANTIS CREW SLEEP BEGINS		02/ 07:30	05:59 PM	06:59 PM	22:59
39	FLIGHT DAY 3 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	02/ 09:31	08:00 PM	09:00 PM	01:00
40	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	02/ 11:31	10:00 PM	11:00 PM	03:00

**MONDAY, JULY 11**

**FD 4**

41	ISS FLIGHT DIRECTOR UPDATE	JSC	02/ 14:16	12:45 AM	01:45 AM	05:45
42	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	02/ 15:06	01:35 AM	02:35 AM	06:35
42	ATLANTIS / ISS CREW WAKE UP (begins FD 4)		02/ 15:30	01:59 AM	02:59 AM	06:59
44	SHUTTLE VTR PLAYBACK OF ATLANTIS/ISS DOCKING		02/ 17:35	04:04 AM	05:04 AM	09:04
44	SSRMS GRAPPLES MPLM		02/ 17:40	04:09 AM	05:09 AM	09:09
44	SSRMS UNBERTHS MPLM FROM ATLANTIS		02/ 18:10	04:39 AM	05:39 AM	09:39
45	ATLANTIS / ISS TRANSFERS BEGIN		02/ 18:50	05:19 AM	06:19 AM	10:19
45	SSRMS INSTALLS MPLM ONTO HARMONY		02/ 19:30	05:59 AM	06:59 AM	10:59
47	MISSION STATUS BRIEFING	JSC	02/ 22:01	08:30 AM	09:30 AM	13:30
48	MPLM ACTIVATION BEGINS		03/ 23:55	10:24 AM	11:24 AM	15:24
49	MPLM INGRESS		03/ 02:10	12:39 PM	01:39 PM	17:39

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
50	EVA # 1 PROCEDURE REVIEW			03/ 03:30	01:59 PM	02:59 PM	18:59
51	MMT BRIEFING	JSC		03/ 04:31	03:00 PM	04:00 PM	20:00
52	VIDEO FILE	HQ		03/ 05:31	04:00 PM	05:00 PM	21:00
53	ISS CREW SLEEP BEGINS			03/ 07:00	05:29 PM	06:29 PM	22:29
53	ATLANTIS CREW SLEEP BEGINS			03/ 07:30	05:59 PM	06:59 PM	22:59
54	FLIGHT DAY 4 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		03/ 09:31	08:00 PM	09:00 PM	01:00
56	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC		03/ 11:31	10:00 PM	11:00 PM	03:00

**TUESDAY, JULY 12**

**FD 5**

57	ISS FLIGHT DIRECTOR UPDATE	JSC		03/ 14:16	12:45 AM	01:45 AM	05:45
58	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC		03/ 15:06	01:35 AM	02:35 AM	06:35
58	ATLANTIS / ISS CREW WAKE UP (begins FD 5)			03/ 15:30	01:59 AM	02:59 AM	06:59
59	EVA # 1 ISLE METHOD PREPARATIONS RESUME			03/ 16:45	03:14 AM	04:14 AM	08:14
60	MPLM TRANSFERS BEGIN			03/ 17:55	04:24 AM	05:24 AM	09:24
60	ZSR TRANSFER TO ISS			03/ 18:20	04:49 AM	05:49 AM	09:49
60	EVA # 1 ISLE PREBREATHE BEGINS (Fossum and Garan)			03/ 19:05	05:34 AM	06:34 AM	10:34
62	EVA # 1 BEGINS (Fossum and Garan)			03/ 21:15	07:44 AM	08:44 AM	12:44
62	FAILED PUMP MODULE RETRIEVAL FROM ESP2			03/ 22:15	08:44 AM	09:44 AM	13:44
63	FAILED PUMP MODULE TRANSFER TO LMC IN ATLANTIS' PAYLOAD BAY			03/ 22:45	09:14 AM	10:14 AM	14:14
63	RRM REMOVAL FROM ATLANTIS' PAYLOAD BAY			03/ 23:45	10:14 AM	11:14 AM	15:14

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
64	RRM TRANSFER TO ENHANCED DEXTRE ORU TEMPORARY PLATFORM		04/ 00:05	10:34 AM	11:34 AM	15:34
65	MISSE INSTALLATION ON ESP-2		04/ 02:15	12:44 PM	01:44 PM	17:44
65	EVA GET-AHEAD TASKS		04/ 02:15	12:44 PM	01:44 PM	17:44
66	EVA #1 ENDS		04/ 03:45	02:14 PM	03:14 PM	19:14
67	MISSION STATUS BRIEFING	JSC	04/ 05:01	03:30 PM	04:30 PM	20:30
68	ISS CREW SLEEP BEGINS		04/ 06:30	04:59 PM	05:59 PM	21:59
68	ATLANTIS CREW SLEEP BEGINS		04/ 07:00	05:29 PM	06:29 PM	22:29
69	VIDEO FILE	HQ	04/ 07:31	06:00 PM	07:00 PM	23:00
69	FLIGHT DAY 5 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	04/ 08:31	07:00 PM	08:00 PM	00:00
71	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	04/ 10:31	09:00 PM	10:00 PM	02:00
72	ISS FLIGHT DIRECTOR UPDATE	JSC	04/ 13:16	11:45 PM	12:45 AM	04:45
<b>WEDNESDAY, JULY 13</b>						
<b>FD 6</b>						
73	* ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	04/ 14:16	12:45 AM	01:45 AM	05:45
73	ATLANTIS / ISS CREW WAKE UP (begins FD 6)		04/ 15:00	01:29 AM	02:29 AM	06:29
75	MPLM TRANSFERS RESUME		04/ 17:00	03:29 AM	04:29 AM	08:29
80	* WBMG-TV, Binghamton, NY / WICZ-TV, Binghamton, NY / KGO-TV San Francisco, CA LIVE INTERVIEWS	ISS Ku	05/ 01:35	12:04 PM	01:04 PM	17:04
81	CREW DOWNLINK OF "FACE IN SPACE" TRIBUTE	ISS Ku	05/ 01:55	12:24 PM	01:24 PM	17:24
82	VIDEO FILE	HQ	05/ 03:31	02:00 PM	03:00 PM	19:00
83	ISS CREW SLEEP BEGINS		05/ 05:30	03:59 PM	04:59 PM	20:59

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
83	MISSION STATUS BRIEFING	JSC	05/ 05:31	04:00 PM	05:00 PM	21:00
83	ATLANTIS CREW SLEEP BEGINS		05/ 06:00	04:29 PM	05:29 PM	21:29
84	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	05/ 06:31	05:00 PM	06:00 PM	22:00
84	FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	05/ 07:31	06:00 PM	07:00 PM	23:00
88	ISS FLIGHT DIRECTOR UPDATE	JSC	05/ 13:16	11:45 PM	12:45 AM	04:45
<b>THURSDAY, JULY 14</b>						
<b>FD 7/ FD 8</b>						
88	ATLANTIS / ISS CREW WAKE UP (begins FD 7)		05/ 14:00	12:29 AM	01:29 AM	05:29
89	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	05/ 14:16	12:45 AM	01:45 AM	05:45
90	MPLM TRANSFERS RESUME		05/ 16:40	03:09 AM	04:09 AM	08:09
92	* WBBM-TV, Chicago, IL / KTVI-TV St. Louis, MO / KSDK-TV St. Louis, MO LIVE INTERVIEWS	ISS Ku	05/ 19:30	05:59 AM	06:59 AM	10:59
94	* FOX News Radio / KTVU-TV, Oakland, CA / WTFX-TV, Philadelphia, PA LIVE INTERVIEWS	ISS Ku	05/ 21:55	08:24 AM	09:24 AM	13:24
94	ATLANTIS / ISS CREW OFF DUTY PERIOD		05/ 22:15	08:44 AM	09:44 AM	13:44
95	VIDEO FILE	HQ	06/ 00:31	11:00 AM	12:00 PM	16:00
98	ISS CREW SLEEP BEGINS		06/ 04:30	02:59 PM	03:59 PM	19:59
98	ATLANTIS CREW SLEEP BEGINS		06/ 05:00	03:29 PM	04:29 PM	20:29
99	MISSION STATUS BRIEFING	JSC	06/ 05:31	04:00 PM	05:00 PM	21:00
99	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 06:31	05:00 PM	06:00 PM	22:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
102	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	06/ 11:31	10:00 PM	11:00 PM	03:00
103	ATLANTIS / ISS CREW WAKE UP (begins FD 8)		06/ 13:00	11:29 PM	12:29 AM	04:29
104	ISS FLIGHT DIRECTOR UPDATE	JSC	06/ 13:16	11:45 PM	12:45 AM	04:45
<b>FRIDAY, JULY 15</b>						
<b>FD 8 / FD 9</b>						
104	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	06/ 14:16	12:45 AM	01:45 AM	05:45
105	ATLANTIS / ISS TRANSFERS RESUME		06/ 15:10	01:39 AM	02:39 AM	06:39
107	* CBS Radio / KYW-TV, Philadelphia, PA / Associated Press LIVE INTERVIEWS	ISS Ku	06/ 19:15	05:44 AM	06:44 AM	10:44
108	* REUTERS / ABC Radio / WPVI-TV, Philadelphia, PA LIVE INTERVIEWS	ISS Ku	06/ 20:35	07:04 AM	08:04 AM	12:04
109	JOINT CREW NEWS CONFERENCE	ISS Ku	06/ 21:55	08:24 AM	09:24 AM	13:24
110	INTERPRETED REPLAY OF JOINT CREW NEWS CONFERENCE	JSC	06/ 23:31	10:00 AM	11:00 AM	15:00
111	VIDEO FILE	HQ	07/ 00:31	11:00 AM	12:00 PM	16:00
113	ISS CREW SLEEP BEGINS		07/ 03:30	01:59 PM	02:59 PM	18:59
113	ATLANTIS CREW SLEEP BEGINS		07/ 04:00	02:29 PM	03:29 PM	19:29
113	MISSION STATUS BRIEFING	JSC	07/ 04:31	03:00 PM	04:00 PM	20:00
114	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 05:31	04:00 PM	05:00 PM	21:00
117	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	07/ 10:31	09:00 PM	10:00 PM	02:00
118	ATLANTIS / ISS CREW WAKE UP (begins FD 9)		07/ 12:00	10:29 PM	11:29 PM	03:29

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
119	ISS FLIGHT DIRECTOR UPDATE	JSC		07/ 12:16	10:45 PM	11:45 PM	03:45
119	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC		07/ 13:16	11:45 PM	12:45 AM	04:45
<b>SATURDAY, JULY 16</b>							
<b>FD 9 / FD 10</b>							
120	MPLM TRANSFERS RESUME			07/ 14:20	12:49 AM	01:49 AM	05:49
124	* NASA EXPLORER SCHOOLS EDUCATIONAL EVENT	ISS Ku		07/ 20:10	06:39 AM	07:39 AM	11:39
125	ATLANTIS / ISS CREW OFF DUTY PERIOD			07/ 21:45	08:14 AM	09:14 AM	13:14
128	ISS CREW SLEEP BEGINS			08/ 03:00	01:29 PM	02:29 PM	18:29
128	ATLANTIS CREW SLEEP BEGINS			08/ 03:30	01:59 PM	02:59 PM	18:59
129	MISSION STATUS BRIEFING	JSC		08/ 04:01	02:30 PM	03:30 PM	19:30
130	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		08/ 05:31	04:00 PM	05:00 PM	21:00
133	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC		08/ 10:31	09:00 PM	10:00 PM	02:00
134	ATLANTIS / ISS CREW WAKE UP (begins FD 10)			08/ 11:30	09:59 PM	10:59 PM	02:59
134	ISS FLIGHT DIRECTOR UPDATE	JSC		08/ 12:01	10:30 PM	11:30 PM	03:30
135	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC		08/ 13:01	11:30 PM	12:30 AM	04:30
<b>SUNDAY, JULY 17</b>							
<b>FD 10 / FD 11</b>							
135	MPLM EGRESS			08/ 13:50	12:19 AM	01:19 AM	05:19
136	MPLM VESTIBULE DEMATING			08/ 14:25	12:54 AM	01:54 AM	05:54
137	MPLM VESTIBULE DEPRESSURIZATION			08/ 15:55	02:24 AM	03:24 AM	07:24
138	SSRMS GRAPPLES MPLM			08/ 18:35	05:04 AM	06:04 AM	10:04

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
139	SSRMS UNBERTHS MPLM FROM ISS & INSTALLS IN ATLANTIS' PAYLOAD BAY		08/ 19:50	06:19 AM	07:19 AM	11:19
140	MISSION STATUS BRIEFING	JSC	08/ 21:31	08:00 AM	09:00 AM	13:00
141	ATLANTIS / ISS FAREWELL AND HATCH CLOSURE		08/ 22:20	08:49 AM	09:49 AM	13:49
141	CENTERLINE CAMERA INSTALLATION		08/ 23:10	09:39 AM	10:39 AM	14:39
142	RENDEZVOUS TOOLS CHECKOUT		08/ 23:50	10:19 AM	11:19 AM	15:19
143	ISS CREW SLEEP BEGINS		08/ 02:30	12:59 PM	01:59 PM	17:59
144	ATLANTIS CREW SLEEP BEGINS		09/ 03:00	01:29 PM	02:29 PM	18:29
144	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	09/ 03:31	02:00 PM	03:00 PM	19:00
145	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 04:31	03:00 PM	04:00 PM	20:00
149	ATLANTIS / ISS CREW WAKE UP (begins FD 11)		09/ 11:00	09:29 PM	10:29 PM	02:29

**MONDAY, JULY 18**

**FD 11 / FD 12**

151	ATLANTIS UNDOCKS FROM ISS		09/ 14:25	12:54 AM	01:54 AM	05:54
151	ATLANTIS FLYAROUND OF ISS BEGINS		09/ 14:55	01:24 AM	02:24 AM	06:24
152	ATLANTIS FINAL SEPARATION FROM ISS		09/ 15:47	02:16 AM	03:16 AM	07:16
154	RMS / OBSS LATE INSPECTION OF ATLANTIS' TPS		09/ 18:40	05:09 AM	06:09 AM	10:09
155	MISSION STATUS BRIEFING	JSC	09/ 21:01	07:30 AM	08:30 AM	12:30
157	OBSS BERTH		09/ 22:55	09:24 AM	10:24 AM	14:24
157	SHUTTLE VTR PLAYBACK OF UNDOCKING		10/ 00:15	10:44 AM	11:44 AM	15:44
158	MMT BRIEFING	JSC	10/ 01:31	12:00 PM	01:00 PM	17:00
159	ATLANTIS CREW SLEEP BEGINS		10/ 03:00	01:29 PM	02:29 PM	18:29

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
160	VIDEO FILE	HQ	10/	03:31	02:00 PM	03:00 PM	19:00
160	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/	04:31	03:00 PM	04:00 PM	20:00
164	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	10/	09:31	08:00 PM	09:00 PM	01:00
165	ATLANTIS CREW WAKE UP (begins FD 12)		10/	11:00	09:29 PM	10:29 PM	02:29
<b>TUESDAY, JULY 19</b>							
<b>FD 12 / FD 13</b>							
166	FCS CHECKOUT		10/	14:00	12:29 AM	01:29 AM	05:29
168	PICOSAT DEPLOYMENT		10/	15:45	02:14 AM	03:14 AM	07:14
168	RCS HOT-FIRE TEST		10/	15:55	02:24 AM	03:24 AM	07:24
168	CABIN STOWAGE BEGINS		10/	16:35	03:04 AM	04:04 AM	08:04
169	* ABC News / CBS News / CNN / FOX News / NBC News LIVE INTERVIEWS	TDRE	10/	18:25	04:54 AM	05:54 AM	09:54
171	MISSION STATUS BRIEFING	JSC	10/	21:01	07:30 AM	08:30 AM	12:30
173	VIDEO FILE	HQ	11/	00:31	11:00 AM	12:00 PM	16:00
173	KU-BAND ANTENNA STOWAGE		11/	00:40	11:09 AM	12:09 PM	16:09
175	ATLANTIS CREW SLEEP BEGINS		11/	03:00	01:29 PM	02:29 PM	18:29
175	* "LAUNCHING OUR DREAMS" VIDEO FEATURE PLAYBACK	JSC	11/	03:31	02:00 PM	03:00 PM	19:00
176	FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/	04:31	03:00 PM	04:00 PM	20:00
180	ATLANTIS CREW WAKE UP (begins FD 13)		11/	11:00	09:29 PM	10:29 PM	02:29

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
<b>WEDNESDAY, JULY 20</b>						
<b>FD 13</b>						
183	ATLANTIS DEORBIT PREPARATIONS BEGIN		11/ 14:35	01:04 AM	02:04 AM	06:04
183	PAYLOAD BAY DOOR CLOSING		11/ 15:46	02:15 AM	03:15 AM	07:15
185	ATLANTIS DEORBIT BURN		11/ 18:26	04:55 AM	05:55 AM	09:55
185	MILA C-BAND RADAR ACQUISITION OF ATLANTIS		11/ 19:17	05:46 AM	06:46 AM	10:46
186	KSC LANDING	KSC	11/ 19:30	05:59 AM	06:59 AM	10:59
	ENTRY FLIGHT DIRECTOR TONY CECCACCI SIGN-OFF TO FLIGHT CONTROL TEAM	JSC		~ L+1 HR.		
	POST-LANDING NEWS CONFERENCE	KSC		NET L+2 HRS.		
	ENTRY FLIGHT CONTROL TEAM VIDEO REPLAY (replayed after Post-Landing News Conference)	JSC		~ L+3 HRS.		
	STS-135 MISSION HIGHLIGHTS VIDEO REPLAY (replayed after Entry Flight Control Team Video)	JSC		~ L+3.5 HRS.		
	STS-135 CREW NEWS CONFERENCE (may be postponed or cancelled)	KSC		NET L+4.5 HRS.		
	ATLANTIS TOWBACK & EMPLOYEE APPRECIATION EVENT	KSC		NET L+5.5 HRS.		



<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
STBD:	Starboard					
STS:	Space Transportation System					
TI:	Terminal Initiation Rendezvous Maneuver					
TDRE, W:	Tracking and Data Relay Satellite, East and West Longitudes					
TPS:	Thermal Protection System					
Unity:	Connecting Node 1 on International Space Station					
VTR:	Videotape Recorder					
ZSR:	Zero-G Stowage Rack					