

\*\*\*\*\*  
 NASA TELEVISION SCHEDULE  
 STS-135  
 ISS UTILIZATION LOGISTICS FLIGHT 7 / MPLM "RAFFAELLO"  
 07/01/11  
 \*\*\*\*\*

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>

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
<b>MONDAY, JULY 4</b>						
	STS-135 CREW ARRIVAL	KSC		1:45 PM	2:45 PM	18:45
<b>TUESDAY, JULY 5</b>						
	COUNTDOWN PREVIEW BRIEFING	KSC		9:00 AM	10:00 AM	14:00
	EXPEDITION 28 ISS UPDATE	JSC		10:00 AM	11:00 AM	15:00
	VIDEO FILE	HQ		11:00 AM	12:00 PM	16:00
	FORWARD OSMOSIS EXPERIMENT DEMONSTRATION	KSC		11:30 AM	12:30 PM	16:30
<b>WEDNESDAY, JULY 6</b>						
	STS-135 B-ROLL FEED	JSC		5:30 AM	6:30 AM	10:30
	LIVE INTERVIEWS WITH STS-135 LEAD SPACE SHUTTLE FLIGHT DIRECTOR KWATSI ALIBARUHO	JSC		6:00 AM	7:00 AM	11:00
	LIVE INTERVIEWS WITH STS-135/ULF-7 LEAD SPACE STATION FLIGHT DIRECTOR CHRIS EDELEN (LIMO and NASA TV Media Channels only)	JSC		7:00 AM	8:00 AM	12:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
	NASA AERONAUTICS RESEARCH UPDATE BRIEFING (NASA TV Public Channel only)	KSC		7:15 AM	8:15 AM	12:15
	FUTURE SCIENCE MISSIONS & LAUNCHES BRIEFING	KSC		8:30 AM	9:30 AM	13:30
	EXPEDITION 28 ISS UPDATE	JSC		9:30 AM	10:30 AM	14:30
	STS-135 PRELAUNCH NEWS CONFERENCE (Time subject to completion of MMT meeting)	KSC		10:30 AM	11:30 AM	15:30
	ISS RESEARCH AND TECHNOLOGY BRIEFING	KSC		12:00 PM	1:00 PM	17:00
	ROBOTIC REFUELING MISSION DEMONSTRATION	KSC		1:30 PM	2:30 PM	18:30
	VIDEO FILE	HQ		3:00 PM	4:00 PM	20:00
<b>THURSDAY, JULY 7</b>						
	ORION MULTI-PURPOSE CREW VEHICLE DEMONSTRATION	KSC		8:00 AM	9:00 AM	13:00
	COUNTDOWN STATUS BRIEFING	KSC		9:00 AM	10:00 AM	14:00
	WHAT'S NEXT FOR NASA SPACEFLIGHT BRIEFING	KSC		10:30 AM	11:30 AM	15:30
	VIDEO FILE	HQ		11:30 AM	12:30 PM	16:30
	LAUNCH PAD 39-A RSS RETRACTION	KSC		1:00 PM	2:00 PM	18:00
<b>FRIDAY, JULY 8</b>						
<b>FD 1</b>						
	STS-135 FUELING COVERAGE BEGINS	KSC		12:50 AM	1:50 AM	5:50
	STS-135 LAUNCH COVERAGE BEGINS	KSC		5:30 AM	6:30 AM	10:30
	LAUNCH	KSC	00/ 00:00	10:26 AM	11:26 AM	15:26
	MECO		00/ 00:08	10:34 AM	11:34 AM	15:34
1	NASA TELEVISION ORIGINATION SWITCHED TO JSC	JSC	00/ 00:10	10:36 AM	11:36 AM	15:36

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
1	NASA TELEVISION ORIGINATION SWITCHED TO KSC	KSC		00/ 00:13	10:39 AM	11:39 AM	15:39
1	LAUNCH REPLAYS (approx. 5 min. after MECO) T=30:00	KSC		00/ 00:13	10:39 AM	11:39 AM	15:39
1	POST LAUNCH NEWS CONFERENCE	KSC		00/ 01:04	11:30 AM	12:30 PM	16:30
2	PAYLOAD BAY DOOR OPENING (may not be televised live)			00/ 01:25	11:51 AM	12:51 PM	16:51
3	ASCENT FLIGHT CONTROL TEAM VIDEO REPLAY	JSC		00/ 03:04	01:30 PM	02:30 PM	18:30
5	RMS CHECKOUT			00/ 06:30	04:56 PM	05:56 PM	21:56
5	SHUTTLE MINICAM VIDEO DOWNLINK OF EXTERNAL TANK SEPARATION			00/ 07:15	05:41 PM	06:41 PM	22:41
5	RMS OMS POD SURVEY			00/ 07:20	05:46 PM	06:46 PM	22:46
6	ATLANTIS CREW SLEEP BEGINS			00/ 08:30	06:56 PM	07:56 PM	23:56
7	VIDEO FILE	HQ		00/ 09:04	07:30 PM	08:30 PM	00:30
7	FLIGHT DAY 1 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		00/ 09:34	08:00 PM	09:00 PM	01:00

**SATURDAY, JULY 9**

**FD 2**

11	ATLANTIS CREW WAKE UP (begins FD 2)			00/ 16:30	02:56 AM	03:56 AM	07:56
14	OBSS UNBERTH			00/ 19:35	06:01 AM	07:01 AM	11:01
14	RMS/OBSS SURVEY OF ATLANTIS' TPS BEGINS			00/ 20:50	07:16 AM	08:16 AM	12:16
18	MISSION STATUS BRIEFING	JSC		01/ 02:34	01:00 PM	02:00 PM	18:00
18	OBSS BERTH			01/ 02:50	01:16 PM	02:16 PM	18:16
19	RENDEZVOUS TOOLS CHECKOUT			01/ 03:55	02:21 PM	03:21 PM	19:21
19	CENTERLINE CAMERA INSTALLATION			01/ 04:00	02:26 PM	03:26 PM	19:26
19	ODS RING EXTENSION			01/ 04:30	02:56 PM	03:56 PM	19:56
20	MMT BRIEFING	JSC		01/ 04:34	03:00 PM	04:00 PM	20:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
22	ATLANTIS CREW SLEEP BEGINS		01/ 08:00	06:26 PM	07:26 PM	23:26
23	FLIGHT DAY 2 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	01/ 09:34	08:00 PM	09:00 PM	01:00
<b>SUNDAY, JULY 10</b>						
<b>FD 3</b>						
27	ATLANTIS CREW WAKE UP (begins FD 3)		01/ 16:00	02:26 AM	03:26 AM	07:26
29	RENDEZVOUS OPERATIONS BEGIN		01/ 18:05	04:31 AM	05:31 AM	09:31
30	TI BURN		01/ 21:02	07:28 AM	08:28 AM	12:28
32	ATLANTIS RPM / ISS CREW VIDEO DOCUMENTATION BEGINS		01/ 22:25	08:51 AM	09:51 AM	13:51
32	ATLANTIS / ISS DOCKING (may not be televised live)		01/ 23:40	10:06 AM	11:06 AM	15:06
34	ATLANTIS / ISS CREW HATCH OPENING AND WELCOME CEREMONY		02/ 01:50	12:16 PM	01:16 PM	17:16
34	MISSION STATUS BRIEFING	JSC	02/ 02:04	12:30 PM	01:30 PM	17:30
34	SSRMS HANDOFF OBSS TO SRMS		02/ 02:35	01:01 PM	02:01 PM	18:01
35	MMT BRIEFING	JSC	02/ 04:34	03:00 PM	04:00 PM	20:00
37	ISS CREW SLEEP BEGINS		02/ 07:00	05:26 PM	06:26 PM	22:26
37	ATLANTIS CREW SLEEP BEGINS		02/ 07:30	05:56 PM	06:56 PM	22:56
39	FLIGHT DAY 3 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	02/ 09:34	08:00 PM	09:00 PM	01:00
<b>MONDAY, JULY 11</b>						
<b>FD 4</b>						
41	ISS FLIGHT DIRECTOR UPDATE	JSC	02/ 14:19	12:45 AM	01:45 AM	05:45
42	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	02/ 15:09	01:35 AM	02:35 AM	06:35

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
42	ATLANTIS / ISS CREW WAKE UP (begins FD 4)		02/ 15:30	01:56 AM	02:56 AM	06:56
44	SHUTTLE VTR PLAYBACK OF ATLANTIS/ISS DOCKING		02/ 17:35	04:01 AM	05:01 AM	09:01
44	SSRMS GRAPPLES MPLM		02/ 17:40	04:06 AM	05:06 AM	09:06
44	SSRMS UNBERTHS MPLM FROM ATLANTIS		02/ 18:10	04:36 AM	05:36 AM	09:36
45	ATLANTIS / ISS TRANSFERS BEGIN		02/ 18:50	05:16 AM	06:16 AM	10:16
45	SSRMS INSTALLS MPLM ONTO HARMONY		02/ 19:30	05:56 AM	06:56 AM	10:56
47	MISSION STATUS BRIEFING	JSC	02/ 22:04	08:30 AM	09:30 AM	13:30
48	MPLM ACTIVATION BEGINS		03/ 23:55	10:21 AM	11:21 AM	15:21
49	MPLM INGRESS		03/ 02:10	12:36 PM	01:36 PM	17:36
50	EVA # 1 PROCEDURE REVIEW		03/ 03:30	01:56 PM	02:56 PM	18:56
51	MMT BRIEFING	JSC	03/ 04:34	03:00 PM	04:00 PM	20:00
52	VIDEO FILE	HQ	03/ 05:34	04:00 PM	05:00 PM	21:00
53	ISS CREW SLEEP BEGINS		03/ 07:00	05:26 PM	06:26 PM	22:26
53	ATLANTIS CREW SLEEP BEGINS		03/ 07:30	05:56 PM	06:56 PM	22:56
54	FLIGHT DAY 4 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	03/ 09:34	08:00 PM	09:00 PM	01:00
<b>TUESDAY, JULY 12</b>						
<b>FD 5</b>						
57	ISS FLIGHT DIRECTOR UPDATE	JSC	03/ 14:19	12:45 AM	01:45 AM	05:45
58	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	03/ 15:09	01:35 AM	02:35 AM	06:35
58	ATLANTIS / ISS CREW WAKE UP (begins FD 5)		03/ 15:30	01:56 AM	02:56 AM	06:56
59	EVA # 1 ISLE METHOD PREPARATIONS RESUME		03/ 16:45	03:11 AM	04:11 AM	08:11
60	MPLM TRANSFERS BEGIN		03/ 17:55	04:21 AM	05:21 AM	09:21

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
60	ZSR TRANSFER TO ISS		03/ 18:20	04:46 AM	05:46 AM	09:46
60	EVA # 1 ISLE PREBREATHE BEGINS (Fossum and Garan)		03/ 19:05	05:31 AM	06:31 AM	10:31
62	EVA # 1 BEGINS (Fossum and Garan)		03/ 21:15	07:41 AM	08:41 AM	12:41
62	FAILED PUMP MODULE RETRIEVAL FROM ESP2		03/ 22:15	08:41 AM	09:41 AM	13:41
63	FAILED PUMP MODULE TRANSFER TO LMC IN ATLANTIS' PAYLOAD BAY		03/ 22:45	09:11 AM	10:11 AM	14:11
63	RRM REMOVAL FROM ATLANTIS' PAYLOAD BAY		03/ 23:45	10:11 AM	11:11 AM	15:11
64	RRM TRANSFER TO ENHANCED DEXTRE ORU TEMPORARY PLATFORM		04/ 00:05	10:31 AM	11:31 AM	15:31
65	MISSE INSTALLATION ON ESP-2		04/ 02:15	12:41 PM	01:41 PM	17:41
65	EVA GET-AHEAD TASKS		04/ 02:15	12:41 PM	01:41 PM	17:41
66	EVA #1 ENDS		04/ 03:45	02:11 PM	03:11 PM	19:11
67	MISSION STATUS BRIEFING	JSC	04/ 05:04	03:30 PM	04:30 PM	20:30
68	ISS CREW SLEEP BEGINS		04/ 06:30	04:56 PM	05:56 PM	21:56
68	ATLANTIS CREW SLEEP BEGINS		04/ 07:00	05:26 PM	06:26 PM	22:26
69	VIDEO FILE	HQ	04/ 07:34	06:00 PM	07:00 PM	23:00
69	FLIGHT DAY 5 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	04/ 08:34	07:00 PM	08:00 PM	00:00
72	ISS FLIGHT DIRECTOR UPDATE	JSC	04/ 13:19	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/ 14:34	01:00 AM	02:00 AM	06:00
73	ATLANTIS / ISS CREW WAKE UP (begins FD 6)		04/ 15:00	01:26 AM	02:26 AM	06:26

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
75	MPLM TRANSFERS RESUME			04/ 17:00	03:26 AM	04:26 AM	08:26
78	CREW DOWNLINK OF U.S. HONOR FLAG TRIBUTE	ISS Ku		04/ 22:45	09:11 AM	10:11 AM	14:11
80	U.S. PAO EVENT	ISS Ku		05/ 01:35	12:01 PM	01:01 PM	17:01
81	CREW DOWNLINK OF "FACE IN SPACE" TRIBUTE	ISS Ku		05/ 01:55	12:21 PM	01:21 PM	17:21
82	VIDEO FILE	HQ		05/ 03:34	02:00 PM	03:00 PM	19:00
83	ISS CREW SLEEP BEGINS			05/ 05:30	03:56 PM	04:56 PM	20:56
83	MISSION STATUS BRIEFING	JSC		05/ 05:34	04:00 PM	05:00 PM	21:00
83	ATLANTIS CREW SLEEP BEGINS			05/ 06:00	04:26 PM	05:26 PM	21:26
84	FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		05/ 07:34	06:00 PM	07:00 PM	23:00
88	ISS FLIGHT DIRECTOR UPDATE	JSC		05/ 13:19	11:45 PM	12:45 AM	04:45

**THURSDAY, JULY 14**

**FD 7/ FD 8**

88	ATLANTIS / ISS CREW WAKE UP (begins FD 7)			05/ 14:00	12:26 AM	01:26 AM	05:26
89	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC		05/ 14:19	12:45 AM	01:45 AM	05:45
90	MPLM TRANSFERS RESUME			05/ 16:40	03:06 AM	04:06 AM	08:06
92	U.S. PAO EVENT	ISS Ku		05/ 19:30	05:56 AM	06:56 AM	10:56
94	U.S. PAO EVENT	ISS Ku		05/ 21:55	08:21 AM	09:21 AM	13:21
94	ATLANTIS / ISS CREW OFF DUTY PERIOD			05/ 22:15	08:41 AM	09:41 AM	13:41
95	VIDEO FILE	HQ		06/ 00:34	11:00 AM	12:00 PM	16:00
98	ISS CREW SLEEP BEGINS			06/ 04:30	02:56 PM	03:56 PM	19:56
98	ATLANTIS CREW SLEEP BEGINS			06/ 05:00	03:26 PM	04:26 PM	20:26
99	MISSION STATUS BRIEFING	JSC		06/ 05:34	04:00 PM	05:00 PM	21:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
99	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 06:34	05:00 PM	06:00 PM	22:00
103	ATLANTIS / ISS CREW WAKE UP (begins FD 8)		06/ 13:00	11:26 PM	12:26 AM	04:26
104	ISS FLIGHT DIRECTOR UPDATE	JSC	06/ 13:19	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/ 14:19	12:45 AM	01:45 AM	05:45
105	ATLANTIS / ISS TRANSFERS RESUME		06/ 15:10	01:36 AM	02:36 AM	06:36
107	U.S. PAO EVENT	ISS Ku	06/ 19:15	05:41 AM	06:41 AM	10:41
108	U.S. PAO EVENT	ISS Ku	06/ 20:35	07:01 AM	08:01 AM	12:01
109	JOINT CREW NEWS CONFERENCE	ISS Ku	06/ 21:55	08:21 AM	09:21 AM	13:21
110	INTERPRETED REPLAY OF JOINT CREW NEWS CONFERENCE	JSC	06/ 23:34	10:00 AM	11:00 AM	15:00
111	VIDEO FILE	HQ	07/ 00:34	11:00 AM	12:00 PM	16:00
113	ISS CREW SLEEP BEGINS		07/ 03:30	01:56 PM	02:56 PM	18:56
113	ATLANTIS CREW SLEEP BEGINS		07/ 04:00	02:26 PM	03:26 PM	19:26
113	MISSION STATUS BRIEFING	JSC	07/ 04:34	03:00 PM	04:00 PM	20:00
114	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 05:34	04:00 PM	05:00 PM	21:00
118	ATLANTIS / ISS CREW WAKE UP (begins FD 9)		07/ 12:00	10:26 PM	11:26 PM	03:26
119	ISS FLIGHT DIRECTOR UPDATE	JSC	07/ 12:19	10:45 PM	11:45 PM	03:45
119	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	07/ 13:19	11:45 PM	12:45 AM	04:45

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
<b>SATURDAY, JULY 16</b>						
<b>FD 9 / FD 10</b>						
120	MPLM TRANSFERS RESUME		07/ 14:20	12:46 AM	01:46 AM	05:46
124	U.S. PAO EDUCATIONAL EVENT	ISS Ku	07/ 20:10	06:36 AM	07:36 AM	11:36
125	ATLANTIS / ISS CREW OFF DUTY PERIOD		07/ 21:45	08:11 AM	09:11 AM	13:11
128	ISS CREW SLEEP BEGINS		08/ 03:00	01:26 PM	02:26 PM	18:26
128	ATLANTIS CREW SLEEP BEGINS		08/ 03:30	01:56 PM	02:56 PM	18:56
129	MISSION STATUS BRIEFING	JSC	08/ 04:04	02:30 PM	03:30 PM	19:30
130	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	08/ 05:34	04:00 PM	05:00 PM	21:00
134	ATLANTIS / ISS CREW WAKE UP (begins FD 10)		08/ 11:30	09:56 PM	10:56 PM	02:56
134	ISS FLIGHT DIRECTOR UPDATE	JSC	08/ 12:04	10:30 PM	11:30 PM	03:30
135	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	08/ 13:04	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	12:16 AM	01:16 AM	05:16
136	MPLM VESTIBULE DEMATING		08/ 14:25	12:51 AM	01:51 AM	05:51
137	MPLM VESTIBULE DEPRESSURIZATION		08/ 15:55	02:21 AM	03:21 AM	07:21
138	SSRMS GRAPPLES MPLM		08/ 18:35	05:01 AM	06:01 AM	10:01
139	SSRMS UNBERTHS MPLM FROM ISS & INSTALLS IN ATLANTIS' PAYLOAD BAY		08/ 19:50	06:16 AM	07:16 AM	11:16
140	MISSION STATUS BRIEFING	JSC	08/ 21:34	08:00 AM	09:00 AM	13:00
141	ATLANTIS / ISS FAREWELL AND HATCH CLOSURE		08/ 22:20	08:46 AM	09:46 AM	13:46
141	CENTERLINE CAMERA INSTALLATION		08/ 23:10	09:36 AM	10:36 AM	14:36

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
142	RENDEZVOUS TOOLS CHECKOUT		08/ 23:50	10:16 AM	11:16 AM	15:16
143	ISS CREW SLEEP BEGINS		08/ 02:30	12:56 PM	01:56 PM	17:56
144	ATLANTIS CREW SLEEP BEGINS		09/ 03:00	01:26 PM	02:26 PM	18:26
145	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 04:34	03:00 PM	04:00 PM	20:00
149	ATLANTIS / ISS CREW WAKE UP (begins FD 11)		09/ 11:00	09:26 PM	10:26 PM	02:26
<b>MONDAY, JULY 18</b>						
<b>FD 11 / FD 12</b>						
151	ATLANTIS UNDOCKS FROM ISS		09/ 14:25	12:51 AM	01:51 AM	05:51
151	ATLANTIS FLYAROUND OF ISS BEGINS		09/ 14:55	01:21 AM	02:21 AM	06:21
152	ATLANTIS FINAL SEPARATION FROM ISS		09/ 15:47	02:13 AM	03:13 AM	07:13
154	RMS / OBSS LATE INSPECTION OF ATLANTIS' TPS		09/ 18:40	05:06 AM	06:06 AM	10:06
155	MISSION STATUS BRIEFING	JSC	09/ 21:04	07:30 AM	08:30 AM	12:30
157	OBSS BERTH		09/ 22:55	09:21 AM	10:21 AM	14:21
157	SHUTTLE VTR PLAYBACK OF UNDOCKING		10/ 00:15	10:41 AM	11:41 AM	15:41
158	MMT BRIEFING	JSC	10/ 01:34	12:00 PM	01:00 PM	17:00
159	ATLANTIS CREW SLEEP BEGINS		10/ 03:00	01:26 PM	02:26 PM	18:26
160	VIDEO FILE	HQ	10/ 03:34	02:00 PM	03:00 PM	19:00
160	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/ 04:34	03:00 PM	04:00 PM	20:00
165	ATLANTIS CREW WAKE UP (begins FD 12)		10/ 11:00	09:26 PM	10:26 PM	02:26
<b>TUESDAY, JULY 19</b>						
<b>FD 12 / FD 13</b>						
166	FCS CHECKOUT		10/ 14:00	12:26 AM	01:26 AM	05:26

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
168	PICOSAT DEPLOYMENT		10/ 15:45	02:11 AM	03:11 AM	07:11
168	RCS HOT-FIRE TEST		10/ 15:55	02:21 AM	03:21 AM	07:21
168	CABIN STOWAGE BEGINS		10/ 16:35	03:01 AM	04:01 AM	08:01
169	ATLANTIS U.S. PAO EVENT	TDRE	10/ 18:25	04:51 AM	05:51 AM	09:51
171	MISSION STATUS BRIEFING	JSC	10/ 21:04	07:30 AM	08:30 AM	12:30
173	VIDEO FILE	HQ	11/ 00:34	11:00 AM	12:00 PM	16:00
173	KU-BAND ANTENNA STOWAGE		11/ 00:40	11:06 AM	12:06 PM	16:06
175	ATLANTIS CREW SLEEP BEGINS		11/ 03:00	01:26 PM	02:26 PM	18:26
176	FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/ 04:34	03:00 PM	04:00 PM	20:00
180	ATLANTIS CREW WAKE UP (begins FD 13)		11/ 11:00	09:26 PM	10:26 PM	02:26

**WEDNESDAY, JULY 20**

**FD 13**

183	ATLANTIS DEORBIT PREPARATIONS BEGIN		11/ 14:35	01:01 AM	02:01 AM	06:01
183	PAYLOAD BAY DOOR CLOSING		11/ 15:46	02:12 AM	03:12 AM	07:12
185	ATLANTIS DEORBIT BURN		11/ 18:26	04:52 AM	05:52 AM	09:52
185	MILA C-BAND RADAR ACQUISITION OF ATLANTIS		11/ 19:17	05:43 AM	06:43 AM	10:43
186	KSC LANDING	KSC	11/ 19:30	05:56 AM	06:56 AM	10:56
	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.		

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
	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					