
 NASA TELEVISION SCHEDULE
 STS-129
 ISS UTILIZATION LOGISTICS FLIGHT 3
 REV G
 11/21/09

Standard-Definition NASA TV satellite coordinates are available at: <http://www1.nasa.gov/multimedia/nasatv/digital.html>. High -Definition NASA TV Channel #105 is broadcast at 720p @ 59.94 fps, carried on an MPEG-2 digital signal on satellite AMC-6, Transponder 17C, at 72 degrees west longitude, 4040 MHz, vertical polarization. A Digital Video Broadcast (DVB) - compliant Integrated Receiver Decoder (IRD) with modulation of QPSK/DBV, data rate of 36.86, symbol 26.665 and FEC 3/4 will be needed for reception. Mission Audio can be accessed at: <http://www.nasa.gov/ntv>. Clients actively participating in Standard-Definition on-orbit interviews, interactive press briefings and satellite interviews must use the LIMO Channel, accessed via satellite AMC-6, 72 degrees west longitude, transponder 5C, 3785.5 MHz, vertical polarization. A Digital Video Broadcast (DVB) - compliant Integrated Receiver Decoder (IRD) with modulation of QPSK/DBV, data rate of 6.00 and FEC 3/4 will be needed for reception.

ALL TIMES SUBJECT TO CHANGE

This TV schedule is available via the Internet. The address is: <http://www.nasa.gov/shuttletv>
 Launch occurred at 1:28pm CT (2:28pm ET) on Monday, November 16th, 2009.
 An asterisk (*) denotes changes made to the previous revision to the television schedule.

ORBIT	SUBJECT	SITE	MET	CST	EST	GMT
SATURDAY, NOVEMBER 21						
FD 6						
74	* EVA # 2 PREPARATIONS RESUME	04/	14:45	04:13 AM	05:13 AM	10:13
75	* SRMS UNBERTH ELC2 FROM ATLANTIS' PAYLOAD BAY	04/	16:20	05:48 AM	06:48 AM	11:48
76	* SRMS HANDOFF ELC2 TO SSRMS	04/	17:15	06:43 AM	07:43 AM	12:43
77	* EVA # 2 BEGINS (Foreman and Bresnik)	04/	19:10	08:38 AM	09:38 AM	14:38
77	* SSRMS INSTALLATION OF ELC2 ON S3 UPPER	04/	19:15	08:43 AM	09:43 AM	14:43
77	* GATOR HAM RADIO BRACKET INSTALLATION ON	04/	19:40	09:08 AM	10:08 AM	15:08
78	* SSRMS BASE CHANGE	04/	20:00	09:28 AM	10:28 AM	15:28
78	* FPMU RELOCATION FROM S1 TO P1 TRUSS	04/	20:55	10:23 AM	11:23 AM	16:23
79	* S3 ZENITH INBOARD PAS DEPLOY	04/	22:25	11:53 AM	12:53 PM	17:53
80	* CAMERA POSITION 1 WETA INSTALL ON S3 TRUSS	04/	23:55	01:23 PM	02:23 PM	19:23
81	* EVA # 2 ENDS	05/	01:05	02:33 PM	03:33 PM	20:33

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82	MISSION STATUS BRIEFING	JSC	05/ 02:02	03:30 PM	04:30 PM	21:30
83	ISS CREW SLEEP BEGINS		05/ 04:00	05:28 PM	06:28 PM	23:28
83	ATLANTIS CREW SLEEP BEGINS		05/ 04:30	05:58 PM	06:58 PM	23:58
83	FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	05/ 04:32	06:00 PM	07:00 PM	00:00
85	* HIGH DEFINITION FLIGHT DAY 6 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel)	JSC	05/ 07:32	09:00 PM	10:00 PM	03:00
87	ISS FLIGHT DIRECTOR UPDATE	JSC	05/ 10:02	11:30 PM	12:30 AM	05:30
SUNDAY, NOVEMBER 22						
FD 7						
88	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	05/ 12:02	01:30 AM	02:30 AM	07:30
88	ATLANTIS / ISS CREW WAKE UP (begins FD 7)		05/ 12:30	01:58 AM	02:58 AM	07:58
91	ATLANTIS OFF-DUTY PERIOD BEGINS		05/ 15:40	05:08 AM	06:08 AM	11:08
93	U.S. PAO EVENT WITH WTTG-TV / BAY NEWS 9 / WBBM RADIO	ISS Ku	05/ 20:10	09:38 AM	10:38 AM	15:38
94	U.S. PAO EDUCATIONAL EVENT WITH TENNESSEE TECH UNIVERSITY	ISS Ku	05/ 21:40	11:08 AM	12:08 PM	17:08
95	EVA # 3 PROCEDURE REVIEW		05/ 23:55	01:23 PM	02:23 PM	19:23
97	MISSION STATUS BRIEFING	JSC	06/ 01:32	03:00 PM	04:00 PM	21:00
98	EVA # 3 CAMPOUT BEGINS (Satcher and Bresnik)		06/ 02:25	03:53 PM	04:53 PM	21:53
98	ISS CREW SLEEP BEGINS		06/ 03:30	04:58 PM	05:58 PM	22:58
99	ATLANTIS CREW SLEEP BEGINS		06/ 04:00	05:28 PM	06:28 PM	23:28
99	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 04:32	06:00 PM	07:00 PM	00:00

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101	* HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel)	JSC	06/ 07:32	09:00 PM	10:00 PM	03:00
102	ISS FLIGHT DIRECTOR UPDATE	JSC	06/ 09:32	11:00 PM	12:00 AM	05:00
MONDAY, NOVEMBER 23						
FD 8						
103	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	06/ 11:02	12:30 AM	01:30 AM	06:30
104	ATLANTIS / ISS CREW WAKE UP (begins FD 8)		06/ 12:00	01:28 AM	02:28 AM	07:28
105	EVA #3 PREPARATIONS RESUME		06/ 13:45	03:13 AM	04:13 AM	09:13
107	EVA #3 BEGINS (Satcher and Bresnik)		06/ 16:50	06:18 AM	07:18 AM	12:18
107	HPGT & MISSE-7 TRANSFER FROM ELC2 TO QUEST AIRLOCK		06/ 17:20	06:48 AM	07:48 AM	12:48
110	QUEST AIRLOCK DEBRIS SHIELD REMOVAL		06/ 21:50	11:18 AM	12:18 PM	17:18
111	EVA #3 ENDS		06/ 23:20	12:48 PM	01:48 PM	18:48
112	MISSION STATUS BRIEFING	JSC	07/ 01:02	02:30 PM	03:30 PM	20:30
113	VIDEO FILE	HQ	07/ 02:32	04:00 PM	05:00 PM	22:00
114	ISS CREW SLEEP BEGINS		07/ 03:00	04:28 PM	05:28 PM	22:28
114	ATLANTIS CREW SLEEP BEGINS		07/ 03:30	04:58 PM	05:58 PM	22:58
114	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 03:32	05:00 PM	06:00 PM	23:00
116	HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays from 5:00am CT - 4:00pm CT on Nov. 24)	JSC	07/ 06:32	08:00 PM	09:00 PM	02:00
118	ISS FLIGHT DIRECTOR UPDATE	JSC	07/ 09:02	10:30 PM	11:30 PM	04:30

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TUESDAY, NOVEMBER 24						
FD 9						
119	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	07/ 11:02	12:30 AM	01:30 AM	06:30
119	ATLANTIS / ISS CREW WAKE UP (begins FD 9)		07/ 11:30	12:58 AM	01:58 AM	06:58
122	ISS REBOOST (If required)		07/ 14:20	03:48 AM	04:48 AM	09:48
123	JOINT CREW NEWS CONFERENCE	ISS Ku	07/ 17:45	07:13 AM	08:13 AM	13:13
125	EXPEDITION 21 / 22 CHANGE OF COMMAND	ISS Ku	07/ 19:32	09:00 AM	10:00 AM	15:00
125	ATLANTIS CREW OFF DUTY PERIOD		07/ 19:45	09:13 AM	10:13 AM	15:13
125	MISSION STATUS BRIEFING	JSC	07/ 20:32	10:00 AM	11:00 AM	16:00
126	ATLANTIS / ISS FAREWELL AND HATCH CLOSURE		07/ 22:00	11:28 AM	12:28 PM	17:28
127	RENDEZVOUS TOOLS CHECKOUT		07/ 22:45	12:13 PM	01:13 PM	18:13
127	CENTERLINE CAMERA INSTALLATION		07/ 22:45	12:13 PM	01:13 PM	18:13
128	VIDEO FILE	HQ	08/ 00:32	02:00 PM	03:00 PM	20:00
130	ATLANTIS / ISS CREW SLEEP BEGINS		08/ 03:00	04:28 PM	05:28 PM	22:28
130	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	08/ 03:32	05:00 PM	06:00 PM	23:00
131	HIGH DEFINITION FLIGHT DAY 9 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays from 5:00am CT - 4:00pm CT on Nov. 25)	JSC	08/ 05:32	07:00 PM	08:00 PM	01:00
133	ISS FLIGHT DIRECTOR UPDATE	JSC	08/ 09:02	10:30 PM	11:30 PM	04:30
134	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	08/ 10:02	11:30 PM	12:30 AM	05:30
WEDNESDAY, NOVEMBER 25						
FD 10						
135	ATLANTIS CREW WAKE UP (begins FD 10)		08/ 11:00	12:28 AM	01:28 AM	06:28
135	ISS CREW WAKE UP		08/ 11:30	12:58 AM	01:58 AM	06:58

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137	ATLANTIS UNDOCKS FROM ISS		08/	14:28	03:56 AM	04:56 AM	09:56
138	ATLANTIS FLYAROUND OF ISS BEGINS		08/	15:05	04:33 AM	05:33 AM	10:33
138	ATLANTIS FINAL SEPARATION FROM ISS		08/	16:14	05:42 AM	06:42 AM	11:42
138	SHUTTLE VTR PLAYBACK OF UNDOCKING		08/	16:20	05:48 AM	06:48 AM	11:48
139	OBSS UNBERTH		08/	17:50	07:18 AM	08:18 AM	13:18
140	RMS / OBSS LATE INSPECTION OF ATLANTIS' TPS		08/	18:55	08:23 AM	09:23 AM	14:23
141	MISSION STATUS BRIEFING	JSC	08/	21:02	10:30 AM	11:30 AM	16:30
143	OBSS BERTH		08/	23:10	12:38 PM	01:38 PM	18:38
143	VIDEO FILE	HQ	08/	23:32	01:00 PM	02:00 PM	19:00
144	POST-MMT BRIEFING	JSC	09/	01:02	02:30 PM	03:30 PM	20:30
145	ATLANTIS CREW SLEEP BEGINS		09/	03:00	04:28 PM	05:28 PM	22:28
146	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/	03:32	05:00 PM	06:00 PM	23:00
147	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays from 5:00am CT - 4:00pm CT on Nov. 26)	JSC	09/	05:32	07:00 PM	08:00 PM	01:00

THURSDAY, NOVEMBER 26

FD 11

151	ATLANTIS CREW WAKE UP (begins FD 11)		09/	11:00	12:28 AM	01:28 AM	06:28
153	CABIN STOWAGE BEGINS		09/	14:55	04:23 AM	05:23 AM	10:23
153	FCS CHECKOUT		09/	15:10	04:38 AM	05:38 AM	10:38
154	RCS HOT-FIRE TEST		09/	16:20	05:48 AM	06:48 AM	11:48
155	U.S. PAO EVENT WITH ABC NEWS / WKYC-TV / KCBS-TV	TDRE	09/	18:05	07:33 AM	08:33 AM	13:33
157	MISSION STATUS BRIEFING	JSC	09/	21:02	10:30 AM	11:30 AM	16:30

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158	STOTT'S RECUMBENT SEAT SET UP		09/ 23:00	12:28 PM	01:28 PM	18:28
159	KU-BAND ANTENNA STOWAGE		10/ 00:00	01:28 PM	02:28 PM	19:28
161	ATLANTIS CREW SLEEP BEGINS		10/ 03:00	04:28 PM	05:28 PM	22:28
161	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/ 03:32	05:00 PM	06:00 PM	23:00
163	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays from 5:00am CT - 4:00pm CT on Nov. 26)	JSC	10/ 05:32	07:00 PM	08:00 PM	01:00

FRIDAY, NOVEMBER 27

FD 12

166	ATLANTIS CREW WAKE UP (begins FD 12)		10/ 11:00	12:28 AM	01:28 AM	06:28
168	ATLANTIS DEORBIT PREPARATIONS BEGIN		10/ 14:10	03:38 AM	04:38 AM	09:38
169	PAYLOAD BAY DOOR CLOSING		10/ 15:34	05:02 AM	06:02 AM	11:02
171	ATLANTIS DEORBIT BURN		10/ 18:14	07:42 AM	08:42 AM	13:42
172	MILA C-BAND RADAR ACQUISITION OF ATLANTIS		10/ 19:04	08:32 AM	09:32 AM	14:32
172	KSC LANDING	KSC	10/ 19:17	08:45 AM	09:45 AM	14:45
	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-129 MISSION HIGHLIGHTS VIDEO REPLAY (replayed after Entry Flight Control Team Video)	JSC		~ L+3.5 HRS.		
	STS-129 CREW NEWS CONFERENCE (may be postponed or cancelled)	KSC		NET L+4.5 HRS.		
	VIDEO B-ROLL OF STOTT IN CREW QUARTERS (pending availability)	KSC		NET L+6.5 HRS.		

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SASA:	S-Band Antenna Sub-Assembly					
SGANT:	Space-to-Ground Antenna					
SSRMS:	Space Station Remote Manipulator System (Canadarm2 ISS Robotic Arm)					
STS:	Space Transportation System					
TI:	Terminal Initiation Rendezvous Maneuver					
TDRE, W:	Tracking and Data Relay Satellite, East and West Longitudes					
TPS:	Thermal Protection System					
UCCAS:	Unpressurized Cargo Carriers Attachment System					
Unity:	Connecting Node 1 on International Space Station					
VTR:	Videotape Recorder					
WISE:	Wide-field Infrared Survey Explorer					
WLE:	Wing Leading Edge					
Zvezda:	Russian Service Module of ISS					