
 NASA TELEVISION SCHEDULE
 STS-129
 ISS UTILIZATION LOGISTICS FLIGHT 3
 REV L
 11/24/09

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/shuttle/tv>
 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
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
121	ISS REBOOST		07/ 14:39	04:07 AM	05:07 AM	10:07
123	JOINT CREW NEWS CONFERENCE	ISS Ku	07/ 17:32	07:00 AM	08:00 AM	13:00
125	EXPEDITION 21 / 22 CHANGE OF COMMAND CEREMONY	ISS Ku	07/ 19:32	09:00 AM	10:00 AM	15:00
125	* ATLANTIS CREW OFF DUTY PERIOD		07/ 20:00	09:28 AM	10:28 AM	15:28
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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CST</u>	<u>EST</u>	<u>GMT</u>
127	JOINT CREW NEWS CONFERENCE REPLAY WITH ENGLISH INTERPRETATION	JSC	07/	23:32	01:00 PM	02:00 PM	19:00
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

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
137	ATLANTIS UNDOCKS FROM ISS		08/	14:25	03:53 AM	04:53 AM	09:53
138	* ATLANTIS FLYAROUND OF ISS BEGINS		08/	14:54	04:22 AM	05:22 AM	10:22
138	ATLANTIS FINAL SEPARATION FROM ISS		08/	16:08	05:36 AM	06:36 AM	11:36
138	* SHUTTLE VTR PLAYBACK OF UNDOCKING		08/	16:30	05:58 AM	06:58 AM	11:58
139	OBSS UNBERTH		08/	17:45	07:13 AM	08:13 AM	13:13
140	RMS / OBSS LATE INSPECTION OF ATLANTIS' TPS BEGINS		08/	18:50	08:18 AM	09:18 AM	14:18
141	MISSION STATUS BRIEFING	JSC	08/	21:02	10:30 AM	11:30 AM	16:30
143	OBSS BERTH		08/	23:05	12:33 PM	01:33 PM	18:33
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

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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/	14:20	03:48 AM	04:48 AM	09:48
153	* FCS CHECKOUT		09/	15:20	04:48 AM	05:48 AM	10:48
154	* RCS HOT-FIRE TEST		09/	16:30	05:58 AM	06:58 AM	11:58
156	* U.S. PAO EVENT WITH ABC NEWS / WTVT-TV / KCBS-TV	TDRE	09/	18:45	08:13 AM	09:13 AM	14:13
157	MISSION STATUS BRIEFING	JSC	09/	21:02	10:30 AM	11:30 AM	16:30
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/	14:15	03:43 AM	04:43 AM	09:43

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169	PAYLOAD BAY DOOR CLOSING		10/ 15:33	05:01 AM	06:01 AM	11:01
171	ATLANTIS DEORBIT BURN		10/ 18:13	07:41 AM	08:41 AM	13:41
172	MILA C-BAND RADAR ACQUISITION OF ATLANTIS		10/ 19:03	08:31 AM	09:31 AM	14:31
172	KSC LANDING	KSC	10/ 19:16	08:44 AM	09:44 AM	14:44
	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.		

DEFINITION OF TERMS

AMC: Americom Satellite
APFR: Adjustable Portable Foot Restraint
ATA: Ammonia Tank Assembly
CBCS: Centerline Berthing Camera System
CST: Central Standard Time
Destiny: U.S. Laboratory on ISS
ELC1: Express Logistics Carrier 1
EMU: Extravehicular Mobility Unit
EST: Eastern Standard Time
EVA: Extravehicular Activity
FCS: Flight Control System
FD: Flight Day
GATOR: Grappling Adaptor to On-Orbit Railing
GMT: Greenwich Mean Time
HARMONY: Node 2

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CST</u>	<u>EST</u>	<u>GMT</u>
HD:	High Definition Television					
HPGT:	High Pressure Gas Tank					
HQ:	NASA Headquarters					
ISS:	International Space Station					
JSC:	Johnson Space Center					
Kibo:	Japanese Pressurized Module					
KSC:	Kennedy Space Center					
L:	Launch or Landing time					
LIMO:	Live Interview Media Outlet channel					
MECO:	Main Engine Cut-Off					
MET:	Mission Elapsed Time, which begins at the moment of launch and is read: DAYS/HOURS:MINUTES. LAUNCH=00/00:00					
MILA	Merritt Island, Florida Tracking Station					
MMT:	Mission Management Team					
MRM-2	Mini Research Module 2 (new docking port on ISS)					
MS:	Mission Specialist					
NET:	No Earlier Than					
OBSS:	Orbiter Boom Sensor System					
ODS:	Orbiter Docking System					
OMS:	Orbital Maneuvering System					
ORU:	Orbital Replacement Unit					
P3:	Port Three Truss Segment					
PAO:	Public Affairs office					
PAS:	Payload Attachment System					
PMA-3:	Pressurized Mating Adapter 3					
POA:	Payload ORU Accomodation					
RCS:	Reaction Control System					
RMS:	Remote Manipulator System on ATLANTIS					
RPM:	Rendezvous Pitch Maneuver					
SAAGFA:	Solar Array Assembly Grapple Fixture					
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					

ORBIT

SUBJECT

SITE

MET

CST

EST

GMT