
 NASA TELEVISION SCHEDULE
 STS-125
 Hubble Space Telescope Servicing Mission 4
 REV E
 05/17/09

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 1:01pm CT (2:01pm ET) on Monday, May 11th, 2009.
 An asterisk (*) denotes changes made to the previous revision to the television schedule.

ORBIT	SUBJECT	SITE	MET	CDT	EDT	GMT
SUNDAY, MAY 17						
FD 7						
87	ATLANTIS CREW WAKE UP (begins FD 7)		05/ 15:30	04:31 AM	05:31 AM	09:31
87	EVA #4 PREPARATIONS BEGIN		05/ 16:45	05:46 AM	06:46 AM	10:46
89	EVA #4 BEGINS (MASSIMINO & GOOD)		05/ 19:15	08:16 AM	09:16 AM	13:16
89	STIS REPAIR BEGINS		05/ 19:45	08:46 AM	09:46 AM	13:46
91	STIS POWERDOWN		05/ 22:00	11:01 AM	12:01 PM	16:01
92	STIS ALIVENESS TEST		05/ 23:25	12:26 PM	01:26 PM	17:26
92	STIS FUNCTIONAL TEST & SAFING		06/ 00:00	01:01 PM	02:01 PM	18:01
92	BAY 8 NOBL INSTALLATION BEGINS		06/ 00:15	01:16 PM	02:16 PM	18:16
93	EVA #4 ENDS		06/ 01:45	02:46 PM	03:46 PM	19:46
94	MISSION STATUS BRIEFING	JSC	06/ 02:44	03:45 PM	04:45 PM	20:45

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
95	* HD CREW CHOICE DOWNLINK OPPORTUNITY	TDRW	06/ 04:00	05:01 PM	06:01 PM	22:01
96	* EVA #5 CREW PROCEDURE REVIEW		06/ 04:15	05:16 PM	06:16 PM	22:16
97	ATLANTIS CREW SLEEP BEGINS		06/ 07:30	08:31 PM	09:31 PM	01:31
97	STOCC UPDATE	GSFC	06/ 07:44	08:45 PM	09:45 PM	01:45
97	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 07:59	09:00 PM	10:00 PM	02:00
98	HIGH DEFINITION FLIGHT DAY 7 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replayed 5am-8am CT May 18)	JSC	06/ 09:59	11:00 PM	12:00 AM	04:00

MONDAY, MAY 18

FD 8

102	ATLANTIS CREW WAKE UP (begins FD 8)		06/ 15:30	04:31 AM	05:31 AM	09:31
103	EVA #5 PREPARATIONS BEGIN		06/ 16:45	05:46 AM	06:46 AM	10:46
104	EVA #5 BEGINS (GRUNSFELD & FEUSTEL)		06/ 19:15	08:16 AM	09:16 AM	13:16
105	BAY 3 BATTERY REMOVAL / REPLACEMENT BEGINS		06/ 19:45	08:46 AM	09:46 AM	13:46
105	BAY 3 BATTERY ALIVENESS TEST		06/ 21:05	10:06 AM	11:06 AM	15:06
105	FGS-2 REMOVAL / REPLACEMENT BEGINS		06/ 21:15	10:16 AM	11:16 AM	15:16
106	NEWSEUM CELEBRATION OF 40TH ANNIVERSARY OF APOLLO 10 (Education Channel only)	HQ	06/ 22:29	11:30 AM	12:30 PM	16:30
106	FGS-2 ALIVENESS TEST		06/ 22:40	11:41 AM	12:41 PM	16:41
107	BAY 5 NOBL INSTALLATION BEGINS		06/ 23:15	12:16 PM	01:16 PM	17:16
107	HST HGA DEPLOY - PART ONE		07/ 00:45	01:46 PM	02:46 PM	18:46
108	EVA #5 ENDS		07/ 01:00	02:01 PM	03:01 PM	19:01
108	MISSION STATUS BRIEFING	JSC	07/ 01:59	03:00 PM	04:00 PM	20:00
109	RENDEZVOUS TOOLS CHECKOUT		07/ 03:05	04:06 PM	05:06 PM	21:06

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
109	HST HGA DEPLOY - PART TWO		07/ 03:10	04:11 PM	05:11 PM	21:11
109	FGS-2 FUNCTIONAL TEST		07/ 03:45	04:46 PM	05:46 PM	21:46
109	* HD CREW CHOICE DOWNLINK OPPORTUNITY	TDRW	07/ 04:15	05:16 PM	06:16 PM	22:16
111	ATLANTIS CREW SLEEP BEGINS		07/ 06:30	07:31 PM	08:31 PM	00:31
111	STOCC UPDATE	GSFC	07/ 06:44	07:45 PM	08:45 PM	00:45
111	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 06:59	08:00 PM	09:00 PM	01:00
112	VIDEO FILE	HQ	07/ 07:59	09:00 PM	10:00 PM	02:00
113	HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replayed 5am-8am CT May 19)	JSC	07/ 09:59	11:00 PM	12:00 AM	04:00

TUESDAY, MAY 19

FD 9

116	ATLANTIS CREW WAKE UP (begins FD 9)		07/ 14:30	03:31 AM	04:31 AM	08:31
117	RMS GRAPPLE OF HST		07/ 16:15	05:16 AM	06:16 AM	10:16
118	HST UNBERTH MANEUVER		07/ 17:05	06:06 AM	07:06 AM	11:06
118	HST APERTURE DOOR OPENS		07/ 18:15	07:16 AM	08:16 AM	12:16
119	HST RELEASE		07/ 18:52	07:53 AM	08:53 AM	12:53
119	ATLANTIS FINAL SEPARATION FROM HST		07/ 19:25	08:26 AM	09:26 AM	13:26
119	FSS STOWAGE		07/ 19:50	08:51 AM	09:51 AM	13:51
120	RMS UNBERTHS OBSS		07/ 21:10	10:11 AM	11:11 AM	15:11
121	RMS/OBSS SURVEY OF ATLANTIS TPS BEGINS		07/ 22:50	11:51 AM	12:51 PM	16:51
122	MISSION STATUS BRIEFING	JSC	08/ 00:29	01:30 PM	02:30 PM	18:30

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126	ATLANTIS CREW SLEEP BEGINS			08/ 06:30	07:31 PM	08:31 PM	00:31
127	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		08/ 06:59	08:00 PM	09:00 PM	01:00
127	VIDEO FILE	HQ		08/ 07:59	09:00 PM	10:00 PM	02:00
WEDNESDAY, MAY 20							
FD 10							
131	ATLANTIS CREW WAKE UP (begins FD 10)			08/ 14:30	03:31 AM	04:31 AM	08:31
133	OBSS BERTH IN ATLANTIS' PAYLOAD BAY			08/ 17:15	06:16 AM	07:16 AM	11:16
134	ATLANTIS CREW OFF DUTY PERIOD BEGINS			08/ 18:30	07:31 AM	08:31 AM	12:31
135	* ATLANTIS HD CREW NEWS CONFERENCE (on both Standard and High-Definition NASA-TV Channels)	TDRW		08/ 20:25	09:26 AM	10:26 AM	14:26
136	* ATLANTIS-ISS SHIP-TO-SHIP CALL (on both Standard and High-Definition NASA-TV Channels)	TDRW		08/ 22:05	11:06 AM	12:06 PM	16:06
137	VIDEO FILE	HQ		08/ 22:59	12:00 PM	01:00 PM	17:00
138	MISSION STATUS BRIEFING	JSC		08/ 23:59	01:00 PM	02:00 PM	18:00
139	POST-MMT BRIEFING	JSC		09/ 02:59	04:00 PM	05:00 PM	21:00
140	HD CREW CHOICE DOWNLINK OPPORTUNITY	TDRW		09/ 03:30	04:31 PM	05:31 PM	21:31
141	ATLANTIS CREW SLEEP BEGINS			09/ 06:00	07:01 PM	08:01 PM	00:01
142	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		09/ 06:59	08:00 PM	09:00 PM	01:00
143	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replayed 5am-8am CT May 21)	JSC		09/ 08:59	10:00 PM	11:00 PM	03:00
THURSDAY, MAY 21							
FD 11							

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
147	ATLANTIS CREW WAKE UP (begins FD 11)			09/ 14:00	03:01 AM	04:01 AM	08:01
148	CABIN STOWAGE BEGINS / RMS PRE-FCS CHECKOUT SURVEY			09/ 17:00	06:01 AM	07:01 AM	11:01
149	FCS CHECKOUT			09/ 17:10	06:11 AM	07:11 AM	11:11
149	RCS HOT-FIRE TEST			09/ 18:20	07:21 AM	08:21 AM	12:21
150	CREW DEORBIT PREPARATION BRIEFING			09/ 20:05	09:06 AM	10:06 AM	14:06
152	ATLANTIS HD PAO EVENT WITH SENATOR BARBARA MIKULSKI (D-Md.) (on both Standard and High-Definition NASA TV Channels)	TDRE		09/ 22:30	11:31 AM	12:31 PM	16:31
153	* ATLANTIS HD PAO EVENT WITH ABC / CBS / CNN / NBC / FOX (on both Standard and High-Definition NASA TV Channels)	TDRE		10/ 00:40	01:41 PM	02:41 PM	18:41
154	* MISSION STATUS BRIEFING	JSC		10/ 01:14	02:15 PM	03:15 PM	19:15
154	LRO / LCROSS PRELAUNCH BRIEFING	HQ		10/ 01:59	03:00 PM	04:00 PM	20:00
154	KU-BAND ANTENNA STOWAGE			10/ 02:15	03:16 PM	04:16 PM	20:16
157	ATLANTIS CREW SLEEP BEGINS			10/ 05:30	06:31 PM	07:31 PM	23:31
157	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		10/ 05:59	07:00 PM	08:00 PM	00:00
158	VIDEO FILE	HQ		10/ 06:59	08:00 PM	09:00 PM	01:00
159	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replayed 5am-8am CT May 22)	JSC		10/ 08:59	10:00 PM	11:00 PM	03:00
FRIDAY, MAY 22							
FD 12							
162	ATLANTIS CREW WAKEUP (begins FD 12)			10/ 13:30	02:31 AM	03:31 AM	07:31

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164	DEORBIT PREPARATIONS BEGIN		10/ 16:35	05:36 AM	06:36 AM	10:36
165	* PAYLOAD BAY DOOR CLOSING		10/ 17:53	06:54 AM	07:54 AM	11:54
166	* DEORBIT BURN		10/ 20:33	09:34 AM	10:34 AM	14:34
167	MILA C-BAND RADAR ACQUISITION OF ATLANTIS		10/ 21:27	10:28 AM	11:28 AM	15:28
167	KSC LANDING	KSC	10/ 21:40	10:41 AM	11:41 AM	15:41
	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-125 MISSION HIGHLIGHTS VIDEO REPLAY (replayed after Entry Flight Control Team Video)	JSC		~ L+3.5 HRS.		
	STS-125 CREW NEWS CONFERENCE (may be postponed or cancelled)	KSC		NET L+4.5 HRS.		

DEFINITION OF TERMS

ACS: Advanced Camera for Surveys on HST
 AMC: Americom Satellite

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CDT:	Central Daylight Time					
COS:	Cosmic Origins Spectrograph on HST					
EDT:	Eastern Daylight Time					
EMU:	Extravehicular Mobility Unit					
EVA:	Extravehicular Activity					
FD:	Flight Day					
FGS:	Fine Guidance Sensor on HST					
FSS:	Flight Support System (HST docking interface on Atlantis)					
GMT:	Greenwich Mean Time					
GSFC:	Goddard Space Flight Center					
HDTV:	High-Definition Television					
HGA:	High-Gain Antenna on HST					
HQ:	NASA Headquarters					
HST:	Hubble Space Telescope					
ISS:	International Space Station					
JSC:	Johnson Space Center					
KSC:	Kennedy Space Center					
L:	Launch or Landing time					
LIMO:	Live Interview Media Outlet channel					
LRO/LCROSS:	Lunar Reconnaissance Orbiter/Lunar Crater Observation and Sensing Satellite					
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					
NET:	No Earlier Than					
NOBL:	New Outer Blanket Layer on HST					
OBSS:	Orbiter Boom Sensor System on Atlantis					
OMS:	Orbital Maneuvering System on Atlantis					
PAO:	Public Affairs office					
RCS:	Reaction Control System on Atlantis					
RMS:	Remote Manipulator System on Atlantis					
RSU:	Rate Sensor Unit in HST gyroscope assembly					
SCM:	Soft Capture Mechanism on FSS					
SI CD & H	Science Instrument Command & Data Handling computer on HST					
SSE:	Space Support Equipment on Atlantis					
STIS:	Space Telescope Imaging Spectrograph on HST					
STOCC:	Space Telescope Operations Control Center at GSFC					
STS:	Space Transportation System					
TI:	Terminal Initiation Rendezvous Maneuver					
TDRE, W:	Tracking and Data Relay Satellite, East and West Longitudes					
TPS:	Thermal Protection System on Atlantis					
WFCIII:	Wide Field Camera 3 on HST (replaces WFPC)					
WPFC:	Wide Field Planetary Camera on HST (replaced by WFCIII)					