
 NASA TELEVISION SCHEDULE
 STS-133
 ISS UTILIZATION LOGISTICS FLIGHT 5 / PERMANENT MULTI-PURPOSE MODULE (PMM)
 REV H
 3/4/11

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/shuttle/tv>
 Launch occurred at 3:53pm CT (4:53pm ET) on Thursday, February 24th, 2011.
 An asterisk (*) denotes changes made to the previous revision to the television schedule.

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CST</u>	<u>EST</u>	<u>GMT</u>
FRIDAY, MARCH 4						
FD 8 / FD 9						
121	U.S. PAO EDUCATIONAL EVENT	ISS Ku	07/ 14:15	06:08 AM	07:08 AM	12:08
121	PMM OUTFITTING BEGINS		07/ 14:40	06:33 AM	07:33 AM	12:33
123	JOINT CREW NEWS CONFERENCE	ISS Ku	07/ 17:55	09:48 AM	10:48 AM	15:48
124	INTERPRETED REPLAY OF JOINT CREW NEWS CONFERENCE	JSC	07/ 19:07	11:00 AM	12:00 PM	17:00
125	PMM OUTFITTING CONTINUES		07/ 20:00	11:53 AM	12:53 PM	17:53
125	VIDEO FILE	HQ	07/ 20:07	12:00 PM	01:00 PM	18:00
129	MISSION STATUS BRIEFING	JSC	07/ 01:07	05:00 PM	06:00 PM	23:00
129	ISS CREW SLEEP BEGINS		08/ 02:00	05:53 PM	06:53 PM	23:53
129	DISCOVERY CREW SLEEP BEGINS		08/ 02:30	06:23 PM	07:23 PM	00:23

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129	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	08/ 03:07	07:00 PM	08:00 PM	01:00
SATURDAY, MARCH 5						
FD 10						
133	ISS FLIGHT DIRECTOR UPDATE	JSC	08/ 08:52	12:45 AM	01:45 AM	06:45
132	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	08/ 10:07	02:00 AM	03:00 AM	08:00
134	DISCOVERY / ISS CREW WAKE UP (begins FD 10)		08/ 10:30	02:23 AM	03:23 AM	08:23
139	* ISS CDRA TROUBLESHOOTING		08/ 18:30	10:23 AM	11:23 AM	16:23
144	* MISSION STATUS BRIEFING	JSC	09/ 01:07	05:00 PM	06:00 PM	23:00
144	* ISS CREW SLEEP BEGINS		09/ 02:00	05:53 PM	06:53 PM	23:53
145	* DISCOVERY CREW SLEEP BEGINS		09/ 02:30	06:23 PM	07:23 PM	00:23
145	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 02:07	06:00 PM	07:00 PM	00:00
SUNDAY, MARCH 6						
FD 11						
149	* ISS FLIGHT DIRECTOR UPDATE	JSC	09/ 08:52	12:45 AM	01:45 AM	06:45
150	* ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	09/ 10:07	02:00 AM	03:00 AM	08:00
150	* DISCOVERY / ISS CREW WAKE UP (begins FD 11)		09/ 10:30	02:23 AM	03:23 AM	08:23
136	* DISCOVERY / ISS TRANSFERS RESUME		09/ 13:40	05:33 AM	06:33 AM	11:33
155	* DISCOVERY CREW OFF-DUTY PERIOD		09/ 18:20	10:13 AM	11:13 AM	16:13
156	* MISSION STATUS BRIEFING	JSC	09/ 20:37	12:30 PM	01:30 PM	18:30
157	* RENDEZVOUS TOOL CHECKOUT		09/ 21:05	12:58 PM	01:58 PM	18:58
158	* DISCOVERY / ISS FAREWELL AND HATCH CLOSURE		09/ 22:35	02:28 PM	03:28 PM	20:28
158	* CENTERLINE CAMERA INSTALLATION		09/ 23:35	03:28 PM	04:28 PM	21:28

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144	* ISS CREW SLEEP BEGINS		10/ 02:00	05:53 PM	06:53 PM	23:53
160	* DISCOVERY CREW SLEEP BEGINS		10/ 02:30	06:23 PM	07:23 PM	00:23
161	* FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/ 03:07	07:00 PM	08:00 PM	01:00

MONDAY, MARCH 7

FD 12

166	* DISCOVERY CREW WAKE UP (begins FD 12) ("Theme from Star Trek" by Alexander Courage)		10/ 10:30	02:23 AM	03:23 AM	08:23
168	* DISCOVERY UNDOCKS FROM ISS		10/ 14:10	06:03 AM	07:03 AM	12:03
168	* DISCOVERY FLYAROUND OF ISS BEGINS		10/ 14:40	06:33 AM	07:33 AM	12:33
169	* DISCOVERY FINAL SEPARATION FROM ISS		10/ 15:53	07:46 AM	08:46 AM	13:46
170	* SHUTTLE VTR PLAYBACK OF UNDOCKING		10/ 17:30	09:23 AM	10:23 AM	15:23
171	* RMS/OBSS LATE INSPECTION OF DISCOVERY'S TPS		10/ 18:25	10:18 AM	11:18 AM	16:18
171	* VIDEO FILE	HQ	10/ 19:07	11:00 AM	12:00 PM	17:00
172	* MISSION STATUS BRIEFING	JSC	10/ 20:37	12:30 PM	01:30 PM	18:30
174	* OBSS BERTH		10/ 22:45	02:38 PM	03:38 PM	20:38
158	* MMT BRIEFING	JSC	10/ 23:07	03:00 PM	04:00 PM	21:00
176	* DISCOVERY CREW SLEEP BEGINS		11/ 02:30	06:23 PM	07:23 PM	00:23
176	* FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/ 03:07	07:00 PM	08:00 PM	01:00

TUESDAY, MARCH 8

FD 13

181	* DISCOVERY CREW WAKE UP (begins FD 13) ("Blue Sky" by Big Head Todd and the Monsters)		11/ 10:30	02:23 AM	03:23 AM	08:23
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183	*	FCS CHECKOUT			11/ 13:30	05:23 AM	06:23 AM	11:23
183	*	CABIN STOWAGE BEGINS			11/ 13:35	05:28 AM	06:28 AM	11:28
184	*	RCS HOT-FIRE TEST			11/ 14:40	06:33 AM	07:33 AM	12:33
187	*	ABC NEWS / CBS NEWS / ASSOCIATED PRESS LIVE INTERVIEWS	TDRE		11/ 18:30	10:23 AM	11:23 AM	16:23
187	*	DISCOVERY CREW TRIBUTE EVENT	TDRE		11/ 19:15	11:08 AM	12:08 PM	17:08
188	*	VIDEO FILE	HQ		11/ 20:07	12:00 PM	01:00 PM	18:00
188	*	MISSION STATUS BRIEFING	JSC		11/ 21:07	01:00 PM	02:00 PM	19:00
190	*	KU-BAND ANTENNA STOWAGE			11/ 23:30	03:23 PM	04:23 PM	21:23
192	*	DISCOVERY CREW SLEEP BEGINS			12/ 02:30	06:23 PM	07:23 PM	00:23
192	*	FLIGHT DAY 13 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		12/ 03:07	07:00 PM	08:00 PM	01:00

WEDNESDAY, MARCH 9

FD 14

197	*	DISCOVERY CREW WAKE UP (begins FD 14)			12/ 10:30	02:23 AM	03:23 AM	08:23
199	*	DISCOVERY DEORBIT PREPARATIONS BEGIN			12/ 14:05	05:58 AM	06:58 AM	11:58
200	*	PAYLOAD BAY DOOR CLOSING			12/ 15:22	07:15 AM	08:15 AM	13:15
202	*	DISCOVERY DEORBIT BURN			12/ 18:02	09:55 AM	10:55 AM	15:55
203	*	MILA C-BAND RADAR ACQUISITION OF DISCOVERY			12/ 18:52	10:45 AM	11:45 AM	16:45
203	*	KSC LANDING	KSC		12/ 19:05	10:58 AM	11:58 AM	16:58
		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.		

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	STS-133 MISSION HIGHLIGHTS VIDEO REPLAY (replayed after Entry Flight Control Team Video)	JSC		~ L+3.5 HRS.		
	STS-133 CREW NEWS CONFERENCE (may be postponed or cancelled)	KSC		NET L+4.5 HRS.		

ORBIT SUBJECT SITE MET CST EST GMT

DEFINITION OF TERMS

- AMC: Americom Satellite
- CDT: Central Daylight Time
- CDRA: Carbon Dioxide Removal Assembly
- CETA: Crew and Equipment Translation Aid
- CLPA: Camera Light Pan Tilt Assembly
- Destiny: U.S. Laboratory on ISS
- ELC-4: Express Logistics Carrier #4
- EMU: Extravehicular Mobility Unit
- EOTP: Enhanced ORU Temporary Platform
- EDT: Eastern Daylight Time
- EVA: Extravehicular Activity
- FCS: Flight Control System
- FD: Flight Day
- GMT: Greenwich Mean Time
- Harmony: Node 2
- HD: High Definition Television
- HQ: NASA Headquarters
- ISS: International Space Station
- JAXA: Japan Aerospace Exploration Agency
- JSC: Johnson Space Center
- KSC: Kennedy Space Center
- L: Launch or Landing time
- LIMO: Live Interview Media Outlet channel
- LWAPA: Lightweight Adaptor Plate Assembly
- 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
- MS: Mission Specialist
- NET: No Earlier Than
- OBSS: Orbiter Boom Sensor System
- ODS: Orbiter Docking System
- OMS: Orbital Maneuvering System
- PAO: Public Affairs office
- PMM: Permanent Multipurpose Module
- RCS: Reaction Control System
- R&R: Return and Replace
- RPM: Rendezvous Pitch Maneuver
- RSS: Rotate Servicing Structure
- S1: Starboard One truss segment on ISS
- SPDM: Special Purpose Dexterous Manipulator
- SRMS: Shuttle Remote Manipulator System on Discovery

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SSRMS:	Space Station Remote Manipulator System (Canadarm2 ISS Robotic Arm)					
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					
VAFB:	Vandenberg Air Force Base					
VTR:	Videotape Recorder					