
 NASA TELEVISION SCHEDULE
 STS-131 / ISS 19A
 LEONARDO MULTIPURPOSE LOGISTICS MODULE

REV J
 4/14/10

NASA TV (Public, Education, Media Channels and occasional 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>
 Launch occurred at 5:21am CT (6:21am ET) on Monday, April 5th, 2010.
 An asterisk (*) denotes changes made to the previous revision to the television schedule.

ORBIT	SUBJECT	SITE	MET	CDT	EDT	GMT
WEDNESDAY, APRIL 14						
FD 10 / FD 11						
147	EASTERN GUILFORD HIGH SCHOOL IN GIBSONVILLE, N.C. EDUCATIONAL EVENT	ISS Ku	09/ 06:45	12:06 PM	01:06 PM	17:06
149	ISS CREW SLEEP BEGINS		09/ 09:30	02:51 PM	03:51 PM	19:51
149	DISCOVERY CREW SLEEP BEGINS		09/ 10:00	03:21 PM	04:21 PM	20:21
150	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 10:39	04:00 PM	05:00 PM	21:00
150	VIDEO FILE	HQ	09/ 11:39	05:00 PM	06:00 PM	22:00
151	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 9:00pm CT and 10:00pm CT)	JSC	09/ 12:39	06:00 PM	07:00 PM	23:00
151	ISS FLIGHT DIRECTOR UPDATE	JSC	09/ 13:24	06:45 PM	07:45 PM	23:45
154	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	09/ 17:39	11:00 PM	12:00 AM	04:00

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154	DISCOVERY / ISS CREW WAKE UP (begins FD 11)		09/ 18:00	11:21 PM	12:21 AM	04:21
THURSDAY, APRIL 15						
FD 11 / FD 12						
156	* MPLM EGRESS		09/ 20:25	01:46 AM	02:46 AM	06:46
159	SSRMS GRAPPLES MPLM		10/ 01:05	06:26 AM	07:26 AM	11:26
160	SSRMS UNINSTALLS MPLM & BERTHS IN DISCOVERY'S PAYLOAD BAY		10/ 02:20	07:41 AM	08:41 AM	12:41
161	MISSION STATUS BRIEFING	JSC	10/ 04:09	09:30 AM	10:30 AM	14:30
163	* PRESIDENT OBAMA'S VISIT TO THE KENNEDY SPACE CENTER (All Channels - Public #101, Education #102, and Media #103; will run until 5:15pm CT; STS-131 mission coverage will continue audio only on the Mission Audio circuits throughout the duration of the Presidential visit)	KSC	10/ 07:09	12:30 PM	01:30 PM	17:30
164	ISS CREW SLEEP BEGINS		10/ 09:30	02:51 PM	03:51 PM	19:51
165	DISCOVERY CREW SLEEP BEGINS		10/ 10:00	03:21 PM	04:21 PM	20:21
166	* STS-131 MISSION COVERAGE RESUMES (All Channels - Public #101, Education #102, and Media #103)	JSC	10/ 11:54	05:15 PM	06:15 PM	22:15
166	* FLIGHT DAY 11 HIGHLIGHTS (replayed at 8pm and 10pm CT)	JSC	10/ 12:39	06:00 PM	07:00 PM	23:00
167	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 9:00pm CT and 10:00pm CT)	JSC	10/ 12:39	06:00 PM	07:00 PM	23:00
167	ISS FLIGHT DIRECTOR UPDATE	JSC	10/ 13:24	06:45 PM	07:45 PM	23:45

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167	* REPLAY OF PRESIDENT BARACK OBAMA'S SPEECH ON SPACE POLICY AT THE KENNEDY SPACE CENTER (All Channels - Public #101, Education #102, and Media #103)	HQ	10/ 13:39	07:00 PM	08:00 PM	00:00
169	* REPLAY OF PRESIDENT BARACK OBAMA'S SPEECH ON SPACE POLICY AT THE KENNEDY SPACE CENTER (All Channels - Public #101, Education #102, and Media #103)	HQ	10/ 15:39	09:00 PM	10:00 PM	02:00
170	ISS FLIGHT DIRECTOR UPDATE REPLAY (Public Channel #101 and Education Channel #102)	JSC	10/ 17:39	11:00 PM	12:00 AM	04:00
170	* REPLAY OF PRESIDENT BARACK OBAMA'S SPEECH ON SPACE POLICY AT THE KENNEDY SPACE CENTER (Media Channel #103)	HQ	10/ 17:39	11:00 PM	12:00 AM	04:00
170	DISCOVERY / ISS CREW WAKE UP (begins FD 12)		10/ 18:00	11:21 PM	12:21 AM	04:21
FRIDAY, APRIL 16						
FD 12 / FD 13						
172	* LATE INSPECTION OF DISCOVERY'S TPS		10/ 21:00	02:21 AM	03:21 AM	07:21
176	FIRST NATIONAL CHAMPIONSHIP FROM ATLANTA, GA (NASA TV Education Channel #102 only)	AMES	11/ 02:39	08:00 AM	09:00 AM	13:00
177	MISSION STATUS BRIEFING	JSC	11/ 04:39	10:00 AM	11:00 AM	15:00
180	ISS CREW SLEEP BEGINS		11/ 09:30	02:51 PM	03:51 PM	19:51
181	DISCOVERY CREW SLEEP BEGINS		11/ 10:00	03:21 PM	04:21 PM	20:21
181	FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/ 10:39	04:00 PM	05:00 PM	21:00
182	VIDEO FILE	HQ	11/ 11:39	05:00 PM	06:00 PM	22:00

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182	HIGH DEFINITION FLIGHT DAY 12 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 9:00pm CT and 10:00pm CT)	JSC	11/ 12:39	06:00 PM	07:00 PM	23:00
186	DISCOVERY/ISS CREW WAKE UP (begins FD 13)		11/ 18:00	11:21 PM	12:21 AM	04:21
SATURDAY, APRIL 17						
FD 13 / FD 14						
190	* FAREWELL AND HATCH CLOSURE		11/ 23:35	04:56 AM	05:56 AM	09:56
191	DISCOVERY UNDOCKS FROM ISS		12/ 02:31	07:52 AM	08:52 AM	12:52
192	FIRST NATIONAL CHAMPIONSHIP FROM ATLANTA, GA (NASA TV Education Channel #102 only)	AMES	12/ 02:39	08:00 AM	09:00 AM	13:00
192	DISCOVERY FLYAROUND OF ISS BEGINS		12/ 02:56	08:17 AM	09:17 AM	13:17
192	DISCOVERY FINAL SEPARATION FROM ISS		12/ 04:14	09:35 AM	10:35 AM	14:35
193	MISSION STATUS BRIEFING	JSC	12/ 05:09	10:30 AM	11:30 AM	15:30
194	* OBSS BERTH		12/ 06:20	11:41 AM	12:41 PM	16:41
195	* KU ANTENNA STOW		12/ 07:30	12:51 PM	01:51 PM	17:51
195	MMT BRIEFING	JSC	12/ 07:39	01:00 PM	02:00 PM	18:00
196	DISCOVERY CREW SLEEP BEGINS		12/ 10:00	03:21 PM	04:21 PM	20:21
197	FLIGHT DAY 13 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	12/ 10:39	04:00 PM	05:00 PM	21:00
202	DISCOVERY CREW WAKE UP (begins FD 14)		12/ 18:00	11:21 PM	12:21 AM	04:21
SUNDAY, APRIL 18						
FD 14 / FD 15						
204	CABIN STOWAGE		12/ 21:00	02:21 AM	03:21 AM	07:21
204	FCS CHECKOUT		12/ 21:20	02:41 AM	03:41 AM	07:41
205	RCS HOT-FIRE TEST		12/ 22:30	03:51 AM	04:51 AM	08:51

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206	WBZ RADIO / ASSOCIATED PRESS / KEZI-TV LIVE INTERVIEWS (audio only)			13/ 01:15	06:36 AM	07:36 AM	11:36
209	MISSION STATUS BRIEFING	JSC		13/ 05:09	10:30 AM	11:30 AM	15:30
212	DISCOVERY CREW SLEEP BEGINS			13/ 10:00	03:21 PM	04:21 PM	20:21
213	FLIGHT DAY 14 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		13/ 10:39	04:00 PM	05:00 PM	21:00
217	DISCOVERY CREW WAKE UP (begins FD 15)			13/ 18:00	11:21 PM	12:21 AM	04:21

MONDAY, APRIL 19

FD 15

220	DEORBIT PREPARATIONS BEGIN			13/ 21:30	02:51 AM	03:51 AM	07:51
221	* PAYLOAD BAY DOOR CLOSING			13/ 22:46	04:07 AM	05:07 AM	09:07
222	* DISCOVERY DEORBIT BURN			14/ 01:26	06:47 AM	07:47 AM	11:47
223	* MILA C-BAND RADAR ACQUISITION OF DISCOVERY			14/ 02:14	07:35 AM	08:35 AM	12:35
223	* DISCOVERY LANDING	KSC		14/ 02:27	07:48 AM	08:48 AM	12:48
	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-131 MISSION HIGHLIGHTS VIDEO REPLAY (replayed after Entry Flight Control Team Video)	JSC			~ L+3.5 HRS.		
	STS-131 POST-LANDING CREW NEWS CONFERENCE (CDR and available crewmembers)	JSC			~ L+4.5 HRS.		

DEFINITION OF TERMS

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
AGB:	Adjustable Grapple Bar					
AMC:	Americom Satellite					
AMES:	Ames Research Center, California					
ATA:	Ammonia Tank Assembly					
BAIK:	Baikonur Cosmodrome, Kazakhstan					
CBM:	Common Berthing Mechanism					
CETA:	Crew Equipment & Translation Aid					
CLPA:	Camera Light Pan Tilt Assembly					
CST:	Central Standard Time					
Destiny:	U.S. Laboratory on ISS					
EMU:	Extravehicular Mobility Unit					
ESP:	External Stowage Platform					
EST:	Eastern Standard Time					
EVA:	Extravehicular Activity					
FCS:	Flight Control System					
FD:	Flight Day					
FGB:	Fixed Grapple Bar					
FHRC:	Flex Hose Rotary Coupler					
FIRST:	For Inspiration and Recognition of Science and Technology					
GMT:	Greenwich Mean Time					
Harmony:	Node 2 on ISS					
HD:	High Definition Television					
HQ:	NASA Headquarters					
ISP:	Integrated Stowage Platform					
ISS:	International Space Station					
JAXA:	Japan Aerospace Exploration Agency					
JEF:	JPM Exposed Facility (experiment pallet on Kibo)					
JPM:	Japanese Pressurized Module (Kibo)					
JSC:	Johnson Space Center					
KSC:	Kennedy Space Center					
L:	Launch or Landing time					
LIMO:	Live Interview Media Outlet channel					
LTA:	Launch-to-Activation					
LWAPA:	Light Weight Adapter Plate Assembly					
MBS:	Mobile Base System on ISS truss					
MCC-M:	Mission Control, Moscow					
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					
MLI:	Multi Layer Insulation					
MMOD:	Micro Meteoroid Orbital Debris					
MMT:	Mission Management Team					
MPAC/SEED:	Micro-Particles Capture/Space Environment Exposure Device					
MS:	Mission Specialist					

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MSFC:	Marshall Space Flight Center, Huntsville, AL					
NET:	No Earlier Than					
OBSS:	Orbiter Boom Sensor System					
ODS:	Orbiter Docking System					
OGS:	Oxygen Generation System on ISS					
OMS:	Orbital Maneuvering System					
ORU:	Orbital Replacement Unit					
OTP:	ORU and Tool Platform					
PAO:	Public Affairs office					
PMA 3:	Pressurized Mating Adapter 3 on ISS					
RCS:	Reaction Control System					
RGA:	Rate Gyro Assembly					
RMS:	Remote Manipulator System on DISCOVERY					
RPM:	Rendezvous Pitch Maneuver					
SGANT:	Space-to-Ground Antenna					
SPDM:	Special Purpose Dextrous Manipulator (Dextre)					
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					
Tranquility:	Node 3 on ISS					
Unity:	Node 1 on ISS					
VTR:	Videotape Recorder					
WLE:	Wing Leading Edge					
WORF:	Window Observational Research Facility					
WRS:	Water Recovery System on ISS					
ZSR:	Zero-gravity Stowage Rack					