
 NASA TELEVISION SCHEDULE
 STS-131 / ISS 19A
 LEONARDO MULTIPURPOSE LOGISTICS MODULE
 REV D
 4/09/10

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 Msp. 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
FRIDAY, APRIL 9						
FD 5 / FD 6						
61	EVA # 1 BEGINS (Mastracchio and Anderson)		03/ 19:20	12:41 AM	01:41 AM	05:41
61	* S1 OLD ATA FIXED GRAPPLE BAR RETRIEVAL AND FLUID LINE CONFIGURATION		03/ 19:35	12:56 AM	01:56 AM	05:56
61	ATA REMOVAL PREPARATIONS IN PAYLOAD BAY		03/ 19:50	01:11 AM	02:11 AM	06:11
62	HANDOFF NEW ATA TO SSRMS / SSRMS MANEUVERS TO ESP-2		03/ 20:50	02:11 AM	03:11 AM	07:11
62	MPAC/SEED EXPERIMENT REMOVAL FROM JEF		03/ 21:35	02:56 AM	03:56 AM	07:56
63	AGB RETRIEVAL FROM ESP-2 / INSTALLATION ON ATA		03/ 22:20	03:41 AM	04:41 AM	08:41
63	S0 RGA #1 REMOVAL / REPLACEMENT		03/ 23:05	04:26 AM	05:26 AM	09:26
65	* MOON BUGGY COVERAGE (NASA TV Education Channel # 102 only)	MSFC	04/ 01:39	07:00 AM	08:00 AM	12:00
65	EVA # 1 ENDS		04/ 01:50	07:11 AM	08:11 AM	12:11

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66	MISSION STATUS BRIEFING	JSC	04/	04:09	09:30 AM	10:30 AM	14:30
67	* MOON BUGGY STUDENT INTERVIEWS (NASA TV Media Channel # 103 only)	MSFC	04/	04:39	10:00 AM	11:00 AM	15:00
68	ISS CREW SLEEP BEGINS		04/	06:30	11:51 AM	12:51 PM	16:51
68	DISCOVERY CREW SLEEP BEGINS		04/	07:00	12:21 PM	01:21 PM	17:21
69	FLIGHT DAY 5 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	04/	07:39	01:00 PM	02:00 PM	18:00
69	VIDEO FILE	HQ	04/	08:39	02:00 PM	03:00 PM	19:00
70	* MOON BUGGY STUDENT INTERVIEWS (NASA TV Media Channel # 103 only)	MSFC	04/	09:39	03:00 PM	04:00 PM	20:00
70	HIGH DEFINITION FLIGHT DAY 5 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 5:00pm CT and 6:00pm CT)	JSC	04/	09:39	03:00 PM	04:00 PM	20:00
72	ISS FLIGHT DIRECTOR UPDATE	JSC	04/	12:09	05:30 PM	06:30 PM	22:30
73	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	04/	14:39	08:00 PM	09:00 PM	01:00
74	DISCOVERY / ISS CREW WAKE UP (begins FD 6)		04/	15:00	08:21 PM	09:21 PM	01:21
76	WORF TRANSFER		04/	18:05	11:26 PM	12:26 AM	04:26

SATURDAY, APRIL 10

FD 6 / FD 7

77	ZSR TRANSFER		04/	19:30	12:51 AM	01:51 AM	05:51
79	* NEBRASKA PUBLIC RADIO / CBS NEWSPATH AND RADIO NETWORK / KETV-TV LIVE INTERVIEWS	ISS Ku	04/	23:35	04:56 AM	05:56 AM	09:56
81	EVA # 2 PROCEDURE REVIEW		05/	02:55	08:16 AM	09:16 AM	13:16
82	NAVAL POSTGRADUATE SCHOOL EDUCATIONAL EVENT	ISS Ku	05/	04:15	09:36 AM	10:36 AM	14:36
83	MISSION STATUS BRIEFING	JSC	05/	04:39	10:00 AM	11:00 AM	15:00

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83	EVA # 2 CAMPOUT BEGINS (Mastracchio and Anderson)		05/ 05:25	10:46 AM	11:46 AM	15:46
84	ISS CREW SLEEP BEGINS		05/ 06:30	11:51 AM	12:51 PM	16:51
84	DISCOVERY CREW SLEEP BEGINS		05/ 07:00	12:21 PM	01:21 PM	17:21
85	FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	05/ 07:39	01:00 PM	02:00 PM	18:00
86	HIGH DEFINITION FLIGHT DAY 6 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 5:00pm CT and 6:00pm CT)	JSC	05/ 09:39	03:00 PM	04:00 PM	20:00
87	ISS FLIGHT DIRECTOR UPDATE	JSC	05/ 12:09	05:30 PM	06:30 PM	22:30
89	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	05/ 14:39	08:00 PM	09:00 PM	01:00
89	DISCOVERY / ISS CREW WAKE UP (begins FD 7)		05/ 15:00	08:21 PM	09:21 PM	01:21
90	EVA # 2 PREPARATIONS RESUME		05/ 15:40	09:01 PM	10:01 PM	02:01
91	DISCOVERY / ISS TRANSFERS RESUME		05/ 17:40	11:01 PM	12:01 AM	04:01

SUNDAY, APRIL 11

FD 7 / FD 8

93	EVA # 2 BEGINS (Mastracchio and Anderson)		05/ 19:55	01:16 AM	02:16 AM	06:16
93	RELEASE S1 OLD ATA & HANDOFF TO SSRMS		05/ 20:10	01:31 AM	02:31 AM	06:31
93	OLD S1 ATA TIEDOWN TO PORT CETA CART		05/ 21:10	02:31 AM	03:31 AM	07:31
94	P1 GRAPPLE FIXTURE STOWAGE BEAM INSTALL		05/ 21:55	03:16 AM	04:16 AM	08:16
94	AGB REMOVAL FROM NEW ATA		05/ 22:25	03:46 AM	04:46 AM	08:46
94	INSTALL NEW ATA ON S1 TRUSS		05/ 22:55	04:16 AM	05:16 AM	09:16
95	NEW ATA ELECTRICAL & FLUID LINE CONNECTIONS		05/ 23:40	05:01 AM	06:01 AM	10:01
96	RELEASE OLD ATA FROM CETA CART & INSTALL AGB		06/ 00:25	05:46 AM	06:46 AM	10:46
96	AIRLOCK MMOD SHIELD RETRIEVAL FROM ESP-2		06/ 01:25	06:46 AM	07:46 AM	11:46

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97	EVA # 2 ENDS		06/ 02:25	07:46 AM	08:46 AM	12:46
98	MISSION STATUS BRIEFING	JSC	06/ 04:39	10:00 AM	11:00 AM	15:00
100	ISS CREW SLEEP BEGINS		06/ 07:00	12:21 PM	01:21 PM	17:21
100	DISCOVERY CREW SLEEP BEGINS		06/ 07:30	12:51 PM	01:51 PM	17:51
100	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 07:39	01:00 PM	02:00 PM	18:00
102	HIGH DEFINITION FLIGHT DAY 7 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 6:00pm CT and 7:00pm CT)	JSC	06/ 10:39	04:00 PM	05:00 PM	21:00
104	ISS FLIGHT DIRECTOR UPDATE	JSC	06/ 12:39	06:00 PM	07:00 PM	23:00
105	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	06/ 15:09	08:30 PM	09:30 PM	01:30
105	DISCOVERY / ISS CREW WAKE UP (begins FD 8)		06/ 15:30	08:51 PM	09:51 PM	01:51
107	CREW OFF DUTY PERIOD BEGINS		06/ 18:30	11:51 PM	12:51 AM	04:51

MONDAY, APRIL 12

FD 8 / FD 9

111	JAXA PAO EVENT	ISS Ku	07/ 00:20	05:41 AM	06:41 AM	10:41
111	MPLM TRANSFERS RESUME		07/ 00:30	05:51 AM	06:51 AM	10:51
112	INTERPRETED REPLAY OF JAXA PAO EVENT	JSC	07/ 01:39	07:00 AM	08:00 AM	12:00
113	EVA #3 PROCEDURE REVIEW		07/ 03:25	08:46 AM	09:46 AM	13:46
114	* ABC WORLD NEWS / MSNBC / FOX NEWS CHANNEL / KUSA-TV LIVE INTERVIEWS	ISS Ku	07/ 05:15	10:36 AM	11:36 AM	15:36
114	* MISSION STATUS BRIEFING	JSC	07/ 05:54	11:15 AM	12:15 PM	16:15
115	EVA # 3 CAMPOUT BEGINS (Mastracchio and Anderson)		07/ 06:25	11:46 AM	12:46 PM	16:46
116	ISS CREW SLEEP BEGINS		07/ 07:30	12:51 PM	01:51 PM	17:51

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116	DISCOVERY CREW SLEEP BEGINS		07/ 08:00	01:21 PM	02:21 PM	18:21
117	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 08:39	02:00 PM	03:00 PM	19:00
117	VIDEO FILE	HQ	07/ 09:39	03:00 PM	04:00 PM	20:00
119	HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 7:00pm CT and 8:00pm CT)	JSC	07/ 11:39	05:00 PM	06:00 PM	22:00
119	ISS FLIGHT DIRECTOR UPDATE	JSC	07/ 12:39	06:00 PM	07:00 PM	23:00
121	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	07/ 15:39	09:00 PM	10:00 PM	02:00
121	DISCOVERY / ISS CREW WAKE UP (begins FD 9)		07/ 16:00	09:21 PM	10:21 PM	02:21
122	EVA #3 PREPARATIONS RESUME		07/ 16:35	09:56 PM	10:56 PM	02:56
123	* DISCOVERY / ISS TRANSFERS RESUME		07/ 18:20	11:41 PM	12:41 AM	04:41

TUESDAY, APRIL 13

FD 9 / FD 10

124	SSRMS REMOVES OLD ATA FROM MBS		07/ 19:55	01:16 AM	02:16 AM	06:16
125	EVA #3 BEGINS (Mastracchio and Anderson)		07/ 20:50	02:11 AM	03:11 AM	07:11
125	AGB REMOVAL FROM OLD ATA		07/ 21:05	02:26 AM	03:26 AM	07:26
126	SSRMS INSTALLS OLD ATA IN DISCOVERY'S PAYLOAD BAY		07/ 22:05	03:26 AM	04:26 AM	08:26
127	LWAPA RETRIEVAL FROM COLUMBUS & INSTALL IN DISCOVERY'S PAYLOAD BAY		07/ 23:50	05:11 AM	06:11 AM	10:11
127	CLPA #1 INSTALL ON SPDM/ CAMERA PORT #13 LIGHT REMOVAL / REPLACEMENT		08/ 00:20	05:41 AM	06:41 AM	10:41
129	EVA #3 ENDS		08/ 03:20	08:41 AM	09:41 AM	13:41
131	MISSION STATUS BRIEFING	JSC	08/ 05:39	11:00 AM	12:00 PM	16:00

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132	ISS CREW SLEEP BEGINS			08/ 08:30	01:51 PM	02:51 PM	18:51
133	DISCOVERY CREW SLEEP BEGINS			08/ 09:00	02:21 PM	03:21 PM	19:21
133	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC		08/ 09:39	03:00 PM	04:00 PM	20:00
134	VIDEO FILE	HQ		08/ 10:39	04:00 PM	05:00 PM	21:00
135	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		08/ 12:39	06:00 PM	07:00 PM	23:00
136	ISS FLIGHT DIRECTOR UPDATE	JSC		08/ 14:39	08:00 PM	09:00 PM	01:00
138	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC		08/ 16:39	10:00 PM	11:00 PM	03:00
138	DISCOVERY / ISS CREW WAKE UP (begins FD 10)			08/ 17:00	10:21 PM	11:21 PM	03:21
WEDNESDAY, APRIL 14							
FD 10 / FD 11							
140	DISCOVERY / ISS TRANSFERS RESUME			08/ 20:00	01:21 AM	02:21 AM	06:21
141	* HARMONY CBM CONTROL PANEL ASSEMBLY INSTALL			08/ 21:20	02:41 AM	03:41 AM	07:41
143	JOINT CREW NEWS CONFERENCE	ISS Ku		09/ 01:10	06:31 AM	07:31 AM	11:31
144	CREW OFF DUTY PERIOD			09/ 01:50	07:11 AM	08:11 AM	12:11
146	INTERPRETED REPLAY OF JOINT CREW NEWS CONFERENCE	JSC		09/ 04:39	10:00 AM	11:00 AM	15:00
147	EASTERN GUILFORD HIGH SCHOOL IN GIBSONVILLE, N.C. EDUCATIONAL EVENT	ISS Ku		09/ 06:50	12:11 PM	01:11 PM	17:11
147	MISSION STATUS BRIEFING	JSC		09/ 07:24	12:45 PM	01:45 PM	17:45
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

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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
153	ISS FLIGHT DIRECTOR UPDATE	JSC	09/	15:39	09:00 PM	10:00 PM	02:00
154	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	09/	17:39	11:00 PM	12:00 AM	04:00
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	JSC	09/	20:30	01:51 AM	02:51 AM	06:51
159	SSRMS GRAPPLES MPLM	JSC	10/	01:05	06:26 AM	07:26 AM	11:26
160	SSRMS UNINSTALLS MPLM & BERTHS IN DISCOVERY'S PAYLOAD BAY	JSC	10/	02:20	07:41 AM	08:41 AM	12:41
161	MISSION STATUS BRIEFING	JSC	10/	03:39	09:00 AM	10:00 AM	14:00
162	DISCOVERY / ISS FAREWELL & HATCH CLOSURE	JSC	10/	05:35	10:56 AM	11:56 AM	15:56
162	RENDEZVOUS TOOL CHECKOUT	JSC	10/	05:50	11:11 AM	12:11 PM	16:11
163	CENTERLINE CAMERA INSTALLATION		10/	06:30	11:51 AM	12:51 PM	16:51
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
165	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/	10:39	04:00 PM	05:00 PM	21:00
166	VIDEO FILE	HQ	10/	11:39	05:00 PM	06:00 PM	22:00

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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
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	DISCOVERY UNDOCKS FROM ISS		10/ 21:34	02:55 AM	03:55 AM	07:55
173	DISCOVERY FLYAROUND OF ISS BEGINS		10/ 21:59	03:20 AM	04:20 AM	08:20
174	DISCOVERY FINAL SEPARATION FROM ISS		10/ 23:17	04:38 AM	05:38 AM	09:38
176	MISSION STATUS BRIEFING	JSC	11/ 03:39	09:00 AM	10:00 AM	14:00
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
186	DISCOVERY CREW WAKE UP (begins FD 13)		11/ 18:00	11:21 PM	12:21 AM	04:21
SATURDAY, APRIL 17						
FD 13 / FD 14						
188	CABIN STOWAGE BEGINS		11/ 21:00	02:21 AM	03:21 AM	07:21
188	FCS CHECKOUT		11/ 21:20	02:41 AM	03:41 AM	07:41
189	RCS HOT-FIRE TEST		11/ 22:30	03:51 AM	04:51 AM	08:51
191	* WBZ RADIO / ASSOCIATED PRESS / KEZI-TV LIVE INTERVIEWS (audio only)		12/ 01:15	06:36 AM	07:36 AM	11:36
192	MISSION STATUS BRIEFING	JSC	12/ 04:09	09:30 AM	10:30 AM	14:30
196	DISCOVERY CREW SLEEP BEGINS		12/ 10:00	03:21 PM	04:21 PM	20:21

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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						
204	DEORBIT PREPARATIONS BEGIN		12/ 21:10	02:31 AM	03:31 AM	07:31
205	* PAYLOAD BAY DOOR CLOSING		12/ 22:27	03:48 AM	04:48 AM	08:48
206	* DISCOVERY DEORBIT BURN		13/ 01:07	06:28 AM	07:28 AM	11:28
207	MILA C-BAND RADAR ACQUISITION OF DISCOVERY		13/ 01:55	07:16 AM	08:16 AM	12:16
207	DISCOVERY LANDING	KSC	13/ 02:08	07:29 AM	08:29 AM	12:29
	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.		

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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					
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					