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NASA TELEVISION SCHEDULE  
 STS-127 / ISS 2 J/A  
 Kibo Experiment Logistics Module - Exposed Section/Exposed Facility  
 REV L  
 7/22/09

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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/shuttletv>  
 Launch occurred at 5:03pm CT (6:03pm ET) on Wednesday, July 15th, 2009.  
 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>CDT</u>	<u>EDT</u>	<u>GMT</u>
<b>THURSDAY, JULY 23</b>						
<b>FD 8 / FD 9</b>						
121	JEM RMS UNBERTHS MAXI FROM JLE		07/ 14:30	07:33 AM	08:33 AM	12:33
122	EXPEDITION 21 / SPACEFIGHT PARTICIPANT CREW NEWS CONFERENCE	JSC	07/ 14:57	08:00 AM	09:00 AM	13:00
123	JEM RMS INSTALLS MAXI ON JEF		07/ 15:55	08:58 AM	09:58 AM	13:58
123	JEM RMS UNBERTHS ICS FROM JLE		07/ 16:45	09:48 AM	10:48 AM	14:48
124	JEM RMS INSTALLS ICS ON JEF		07/ 18:10	11:13 AM	12:13 PM	16:13
125	JEM RMS UNBERTHS SEDA FROM JLE		07/ 18:50	11:53 AM	12:53 PM	16:53
125	JEM RMS INSTALLS SEDA ON JEF		07/ 20:15	01:18 PM	02:18 PM	18:18

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
126	U.S. PAO EVENT WITH WRAL-TV / WCSH-TV / WFTV-TV	ISS Ku	07/ 22:20	03:23 PM	04:23 PM	20:23
127	EVA #4 CREW PROCEDURE REVIEW		07/ 22:55	03:58 PM	04:58 PM	20:58
127	U.S. PAO EVENT WITH KLAS-TV / FOX NEWS RADIO / KHOU-TV	ISS Ku	07/ 23:55	04:58 PM	05:58 PM	21:58
129	EVA # 4 CAMPOUT BEGINS (Cassidy & Marshburn)		08/ 01:25	06:28 PM	07:28 PM	23:28
128	MISSION STATUS BRIEFING	JSC	08/ 01:27	06:30 PM	07:30 PM	23:30
129	ISS CREW SLEEP BEGINS		08/ 02:30	07:33 PM	08:33 PM	00:33
130	ENDEAVOUR CREW SLEEP BEGINS		08/ 03:00	08:03 PM	09:03 PM	01:03
130	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	08/ 03:57	09:00 PM	10:00 PM	02:00

**FRIDAY, JULY 24**

**FD 10**

134	ISS FLIGHT DIRECTOR UPDATE	JSC	08/ 09:27	02:30 AM	03:30 AM	07:30
135	ENDEAVOUR / ISS CREW WAKE UP (begins FD 10)		08/ 11:00	04:03 AM	05:03 AM	09:03
135	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	08/ 11:27	04:30 AM	05:30 AM	09:30
135	VIDEO FILE	HQ	08/ 11:27	04:30 AM	05:30 AM	09:30
135	EVA # 4 PREPARATIONS RESUME		08/ 11:40	04:43 AM	05:43 AM	09:43
136	HIGH DEFINITION FLIGHT DAY 9 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	08/ 12:57	06:00 AM	07:00 AM	11:00
138	SSRMS MANEUVERS ICC TO EVA WORKSITE		08/ 15:30	08:33 AM	09:33 AM	13:33
138	EVA # 4 BEGINS (Cassidy & Marshburn)		08/ 15:55	08:58 AM	09:58 AM	13:58

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
138	STS-125 CREW PRESENTATION (NASA-TV Media Channel #103 only)	HQ	08/ 15:57	09:00 AM	10:00 AM	14:00
139	P6 BATTERY REMOVAL/REPLACEMENT CONTINUES		08/ 16:25	09:28 AM	10:28 AM	14:28
142	SSRMS HANDOFF ICC TO SRMS		08/ 21:00	02:03 PM	03:03 PM	19:03
142	SRMS BERTHS ICC IN ENDEAVOUR'S PAYLOAD BAY		08/ 21:35	02:38 PM	03:38 PM	19:38
142	EVA # 4 ENDS		08/ 22:25	03:28 PM	04:28 PM	20:28
144	MISSION STATUS BRIEFING	JSC	09/ 00:57	06:00 PM	07:00 PM	23:00
145	ISS CREW SLEEP BEGINS		09/ 02:00	07:03 PM	08:03 PM	00:03
145	ENDEAVOUR CREW SLEEP BEGINS		09/ 02:30	07:33 PM	08:33 PM	00:33
145	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 02:57	08:00 PM	09:00 PM	01:00

**SATURDAY, JULY 25**

**FD 11**

149	ISS FLIGHT DIRECTOR UPDATE	JSC	09/ 08:57	02:00 AM	03:00 AM	07:00
150	ENDEAVOUR / ISS CREW WAKE UP (begins FD 11)		09/ 10:30	03:33 AM	04:33 AM	08:33
150	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	09/ 10:57	04:00 AM	05:00 AM	09:00
152	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	09/ 12:57	06:00 AM	07:00 AM	11:00
153	* U.S. PAO EVENT WITH WISH-TV / CBS NEWS / WREG-TV	ISS Ku	09/ 14:00	07:03 AM	08:03 AM	12:03
153	ENDEAVOUR / ISS OFF DUTY PERIODS BEGIN		09/ 14:20	07:23 AM	08:23 AM	12:23
154	MISSION STATUS BRIEFING	JSC	09/ 16:57	10:00 AM	11:00 AM	15:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
158	CREW CHOICE DOWNLINK MESSAGE	ISS Ku	09/ 23:00	04:03 PM	05:03 PM	21:03
160	ISS CREW SLEEP BEGINS		10/ 01:30	06:33 PM	07:33 PM	23:33
161	ENDEAVOUR CREW SLEEP BEGINS		10/ 02:00	07:03 PM	08:03 PM	00:03
161	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/ 02:57	08:00 PM	09:00 PM	01:00
<b>SUNDAY, JULY 26</b>						
<b>FD 12</b>						
165	ISS FLIGHT DIRECTOR UPDATE	JSC	10/ 08:57	02:00 AM	03:00 AM	07:00
166	ENDEAVOUR / ISS CREW WAKE UP (begins FD 12)		10/ 10:00	03:03 AM	04:03 AM	08:03
167	JAXA PAO EVENT	ISS Ku	10/ 11:10	04:13 AM	05:13 AM	09:13
165	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	10/ 11:57	05:00 AM	06:00 AM	10:00
167	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	10/ 12:57	06:00 AM	07:00 AM	11:00
167	JAXA PAO EVENT REPLAY WITH ENGLISH INTERPRETATION	JSC	10/ 12:57	06:00 AM	07:00 AM	11:00
168	SSRMS GRAPPLE & UNBERTHS JLE FROM JEF		10/ 13:05	06:08 AM	07:08 AM	11:08
169	SSRMS HANDOFF JLE TO SRMS		10/ 14:15	07:18 AM	08:18 AM	12:18
169	SRMS BERTHS JLE IN ENDEAVOUR'S PAYLOAD BAY		10/ 14:55	07:58 AM	08:58 AM	12:58
170	MISSION STATUS BRIEFING	JSC	10/ 16:57	10:00 AM	11:00 AM	15:00
173	JOINT CREW NEWS CONFERENCE	ISS Ku	10/ 20:25	01:28 PM	02:28 PM	18:28
173	EVA # 5 CREW PROCEDURE REVIEW		10/ 21:25	02:28 PM	03:28 PM	19:28

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
173	JOINT CREW NEWS CONFERENCE REPLAY WITH ENGLISH INTERPRETATION	JSC	10/ 21:57	03:00 PM	04:00 PM	20:00
175	EVA # 5 CAMPOUT BEGINS (Marshburn & Cassidy)		10/ 23:55	04:58 PM	05:58 PM	21:58
176	ISS CREW SLEEP BEGINS		11/ 01:00	06:03 PM	07:03 PM	23:03
176	ENDEAVOUR CREW SLEEP BEGINS		11/ 01:30	06:33 PM	07:33 PM	23:33
176	FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/ 01:57	07:00 PM	08:00 PM	00:00

**MONDAY, JULY 27**

**FD 13**

181	ISS FLIGHT DIRECTOR UPDATE	JSC	11/ 08:57	02:00 AM	03:00 AM	07:00
181	ENDEAVOUR / ISS CREW WAKE UP (begins FD 13)		11/ 09:30	02:33 AM	03:33 AM	07:33
182	EVA # 5 PREPARATIONS RESUME		11/ 10:15	03:18 AM	04:18 AM	08:18
182	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	11/ 10:57	04:00 AM	05:00 AM	09:00
183	VIDEO FILE	HQ	11/ 11:57	05:00 AM	06:00 AM	10:00
183	HIGH DEFINITION FLIGHT DAY 12 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	11/ 12:57	06:00 AM	07:00 AM	11:00
185	EVA # 5 BEGINS (Marshburn & Cassidy)		11/ 14:25	07:28 AM	08:28 AM	12:28
189	EVA # 5 ENDS		11/ 20:55	01:58 PM	02:58 PM	18:58
190	MISSION STATUS BRIEFING	JSC	11/ 23:57	05:00 PM	06:00 PM	22:00
191	ISS CREW SLEEP BEGINS		12/ 00:30	05:33 PM	06:33 PM	22:33
191	ENDEAVOUR CREW SLEEP BEGINS		12/ 01:00	06:03 PM	07:03 PM	23:03

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
192	FLIGHT DAY 13 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	12/ 01:57	07:00 PM	08:00 PM	00:00
<b>TUESDAY, JULY 28</b>						
<b>FD 14</b>						
196	ISS FLIGHT DIRECTOR UPDATE	JSC	12/ 07:57	01:00 AM	02:00 AM	06:00
197	ENDEAVOUR / ISS CREW WAKE UP (begins FD 14)		12/ 09:00	02:03 AM	03:03 AM	07:03
197	ISS FLIGHT DIRECTOR UPDATE REPLAY	JSC	12/ 09:27	02:30 AM	03:30 AM	07:30
198	VIDEO FILE	HQ	12/ 11:57	05:00 AM	06:00 AM	10:00
199	HIGH DEFINITION FLIGHT DAY 13 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	12/ 12:57	06:00 AM	07:00 AM	11:00
199	RENDEZVOUS TOOL CHECKOUT		12/ 13:00	06:03 AM	07:03 AM	11:03
201	FAREWELL AND HATCH CLOSURE		12/ 16:20	09:23 AM	10:23 AM	14:23
202	CENTERLINE CAMERA INSTALLATION		12/ 17:05	10:08 AM	11:08 AM	15:08
202	ODS HATCH LEAK CHECK		12/ 17:05	10:08 AM	11:08 AM	15:08
203	ENDEAVOUR UNDOCKS FROM ISS		12/ 19:23	12:26 PM	01:26 PM	17:26
203	ENDEAVOUR FLYAROUND BEGINS		12/ 19:48	12:51 PM	01:51 PM	17:51
204	ENDEAVOUR FINAL SEPARATION FROM ISS		12/ 21:06	02:09 PM	03:09 PM	19:09
205	MISSION STATUS BRIEFING	JSC	12/ 21:57	03:00 PM	04:00 PM	20:00
206	VTR PLAYBACK OF UNDOCKING		12/ 23:00	04:03 PM	05:03 PM	21:03
207	ENDEAVOUR CREW SLEEP BEGINS		13/ 01:00	06:03 PM	07:03 PM	23:03

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
208	FLIGHT DAY 14 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	13/ 01:57	07:00 PM	08:00 PM	00:00

**WEDNESDAY, JULY 29**

**FD 15**

212	ENDEAVOUR CREW WAKE UP (begins FD 15)		13/ 09:00	02:03 AM	03:03 AM	07:03
214	OBSS UNBERTH		13/ 12:00	05:03 AM	06:03 AM	10:03
215	HIGH DEFINITION FLIGHT DAY 14 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT)	JSC	13/ 12:57	06:00 AM	07:00 AM	11:00
216	PROGRESS 34 DOCKING TO ISS		13/ 13:07	06:10 AM	07:10 AM	11:10
215	RMS / OBSS LATE INSPECTION OF ENDEAVOUR'S TPS BEGINS		13/ 13:15	06:18 AM	07:18 AM	11:18
216	VIDEO FILE	HQ	13/ 14:57	08:00 AM	09:00 AM	13:00
220	MISSION STATUS BRIEFING	JSC	13/ 18:27	11:30 AM	12:30 PM	16:30
220	OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY		13/ 18:30	11:33 AM	12:33 PM	16:33
223	ENDEAVOUR CREW SLEEP BEGINS		14/ 00:00	05:03 PM	06:03 PM	22:03
223	FLIGHT DAY 15 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	14/ 00:57	06:00 PM	07:00 PM	23:00
223	HIGH DEFINITION FLIGHT DAY 15 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replays at 11:00pm CT and 12:00am CT)	JSC	14/ 02:57	08:00 PM	09:00 PM	01:00

**THURSDAY, JULY 30**

**FD 16**

228	ENDEAVOUR CREW WAKE UP (begins FD 16)		14/ 08:00	01:03 AM	02:03 AM	06:03
229	FCS CHECKOUT		14/ 11:10	04:13 AM	05:13 AM	09:13

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
230	CABIN STOWAGE BEGINS		14/ 11:30	04:33 AM	05:33 AM	09:33
230	RCS HOT-FIRE TEST		14/ 12:20	05:23 AM	06:23 AM	10:23
231	VIDEO FILE	HQ	14/ 13:27	06:30 AM	07:30 AM	11:30
232	DRAGONSAT DEPLOYMENT		14/ 14:25	07:28 AM	08:28 AM	12:28
232	ANDE-2 DEPLOYMENT		14/ 14:47	07:50 AM	08:50 AM	12:50
233	U.S. PAO EVENT WITH ABC NEWS / KPIX-TV / ASSOCIATED PRESS	TDRE	14/ 16:35	09:38 AM	10:38 AM	14:38
233	CREW DEORBIT PREPARATION BRIEFING		14/ 16:55	09:58 AM	10:58 AM	14:58
235	MISSION STATUS BRIEFING	JSC	14/ 18:57	12:00 PM	01:00 PM	17:00
235	WAKATA'S RECUMBENT SEAT SET UP		14/ 19:50	12:53 PM	01:53 PM	17:53
236	KU-BAND ANTENNA STOWAGE		14/ 20:55	01:58 PM	02:58 PM	18:58
236	POST-MMT BRIEFING	JSC	14/ 21:57	03:00 PM	04:00 PM	20:00
238	ENDEAVOUR CREW SLEEP BEGINS		15/ 00:00	05:03 PM	06:03 PM	22:03
238	FLIGHT DAY 16 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	15/ 00:57	06:00 PM	07:00 PM	23:00



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<b>FRIDAY, JULY 31</b>						
<b>FD 17</b>						
244	ENDEAVOUR CREW WAKE UP (begins FD 17)		15/ 08:00	01:03 AM	02:03 AM	06:03
246	DEORBIT PREPARATIONS BEGIN		15/ 11:35	04:38 AM	05:38 AM	09:38
246	PAYLOAD BAY DOOR CLOSING		15/ 13:07	06:10 AM	07:10 AM	11:10
248	DEORBIT BURN		15/ 15:47	08:50 AM	09:50 AM	13:50
249	MILA C-BAND RADAR ACQUISITION OF ENDEAVOUR		15/ 16:36	09:39 AM	10:39 AM	14:39
248	KSC LANDING	KSC	15/ 16:49	09:52 AM	10:52 AM	14:52
	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-127 MISSION HIGHLIGHTS VIDEO REPLAY (Replayed after Flight Control Team Video)	JSC		~ L+3.5 HRS		
	VIDEO B-ROLL OF WAKATA IN CREW QUARTERS (pending availability)	KSC		NET L+6.5 HRS		



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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					
MMT:	Mission Management Team					
MS:	Mission Specialist					
MT:	Mobile Transporter					
NET:	No Earlier Than					
OBSS:	Orbiter Boom Sensor System					
ODS:	Orbiter Docking System					
OMS:	Orbital Maneuvering System					
ORU:	Orbital Replacement Unit					
P1:	Port One Truss Segment					
P3:	Port Three Truss Segment					
P6:	Port Six Truss Segment					
PAO:	Public Affairs office					
PAS:	Payload Attach System					
PM:	Pump Module					
POA:	Payload/ORU Attachment					
RCS:	Reaction Control System					
RMS:	Remote Manipulator System					
RPM:	Rendezvous Pitch Maneuver					
S3:	Starboard Three Truss Segment					
S6:	Starboard Six Truss Segment					
SEDA:	Space Environment Data Acquisition equipment					
SGANT:	Space to Ground Antenna					
SRMS:	Shuttle Remote Manipulator System					
SSPTS:	Station to Shuttle Power Transfer System					
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					
VLD:	Vertical Light Deployable					
VTR:	Videotape Recorder					
WETA:	Wireless Video System (WVS) External Transceiver Assembly					
WLE:	Wing Leading Edge					
Z1:	Zenith One Truss					