
 NASA TELEVISION SCHEDULE
 STS-127 / ISS 2 J/A
 Kibo Experiment Logistics Module - Exposed Section/Exposed Facility
 REV M
 7/24/09

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/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> |
|------------------------|--|-------------|------------|------------|------------|------------|
| FRIDAY, JULY 24 | | | | | | |
| FD 10 | | | | | | |
| 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 |
| 139 | P6 BATTERY REMOVAL/REPLACEMENT CONTINUES | | 08/ 16:25 | 09:28 AM | 10:28 AM | 14:28 |
| 142 | * SSRMS HANDOFF ICC TO SRMS | | 08/ 22:40 | 03:43 PM | 04:43 PM | 20:43 |
| 143 | * SRMS BERTHS ICC IN ENDEAVOUR'S PAYLOAD BAY | | 08/ 23:00 | 04:03 PM | 05:03 PM | 21:03 |

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|--------------------------|---|-------------|------------|------------|------------|------------|
| 143 | * EVA # 4 ENDS | | 08/ 23:20 | 04:23 PM | 05:23 PM | 21:23 |
| 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 |
| 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 |

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|------------------------|---|-------------|------------|------------|------------|------------|
| SUNDAY, JULY 26 | | | | | | |
| FD 12 | | | | | | |
| 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 |
| 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 |

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|-------------------------|---|-------------|------------|------------|------------|------------|
| 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 |
| 192 | FLIGHT DAY 13 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 12/ 01:57 | 07:00 PM | 08:00 PM | 00:00 |
| TUESDAY, JULY 28 | | | | | | |
| FD 14 | | | | | | |
| 196 | ISS FLIGHT DIRECTOR UPDATE | JSC | 12/ 07:57 | 01:00 AM | 02:00 AM | 06:00 |

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|---------------------------|---|-------------|------------|------------|------------|------------|
| 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 |
| 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 |

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|--------------------------|---|-------------|--|------------|------------|------------|------------|
| 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/ 13:13 | 06:16 AM | 07:16 AM | 11:16 |
| 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 |
| 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 |

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|--------------|---|-------------|------------|------------|------------|------------|
| 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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|------------------------|---|-------------|------------|---------------|------------|------------|
| FRIDAY, JULY 31 | | | | | | |
| FD 17 | | | | | | |
| 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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DEFINITION OF TERMS

AMC: Americom Satellite
 ANDE-2: Atmospheric Neutral Density Experiment 2
 ATA: Ammonia Tank Assembly
 CETA: Crew Equipment Translation Aid
 CSA: Canadian Space Agency
 CDT: Central Daylight Time
 Destiny: U.S. Laboratory on ISS
 Dextre: Special Purpose Dextrous Manipulator
 EDT: Eastern Daylight Time
 EFBM: Experiment Facility Berthing Mechanism
 EMU: Extravehicular Mobility Unit
 ESP-2: External Stowage Platform-2
 ESP-3: External Stowage Platform-3
 EVA: Extravehicular Activity
 FCS: Flight Control System
 FD: Flight Day
 GMT: Greenwich Mean Time
 Harmony: Connecting Node 2 on ISS
 HD: High Definition Television
 HQ: NASA Headquarters
 ICC: Integrated Cargo Carrier
 ICS: Interorbit Communication System
 ISS: International Space Station
 JAXA: Japan Aerospace and Exploration Agency
 JEF: JEM (Kibo) Exposed Facility
 JEM: Japanese Experiment Module (aka "Kibo")
 JLE: JEM Experiment Logistics Module-Exposed Section
 JSC: Johnson Space Center
 KIBO: Japanese Experiment Module (aka JEM)
 KSC: Kennedy Space Center
 L: Launch or Landing time
 LDU: Linear Drive Unit
 LIMO: Live Interview Media Outlet channel
 MAXI: Monitor of All-sky X-ray Images
 MBS: Mobile Base System

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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 | | | | | |