
 NASA TELEVISION SCHEDULE
 STS-127 / ISS 2 J/A
 Kibo Experiment Logistics Module - Exposed Section/Exposed Facility
 REV G
 7/17/09

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 17 | | | | | | |
| FD 2 / FD 3 | | | | | | |
| 37 | FLIGHT DAY 3 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 02/ 05:57 | 11:00 PM | 12:00 AM | 04:00 |
| SATURDAY, JULY 18 | | | | | | |
| FD 3 / FD 4 | | | | | | |
| 40 | ISS FLIGHT DIRECTOR UPDATE | JSC | 02/ 10:27 | 03:30 AM | 04:30 AM | 08:30 |
| 41 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 02/ 12:42 | 05:45 AM | 06:45 AM | 10:45 |
| 41 | * HIGH DEFINITION FLIGHT DAY 3 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 02/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 41 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 4) | | 02/ 13:00 | 06:03 AM | 07:03 AM | 11:03 |

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|--------------|---|-------------|------------|------------|------------|------------|
| 42 | * EVA # 1 PREPARATIONS RESUME | | 02/ 13:45 | 06:48 AM | 07:48 AM | 11:48 |
| 44 | SSRMS GRAPPLES JEF | | 02/ 16:35 | 09:38 AM | 10:38 AM | 14:38 |
| 45 | EVA # 1 BEGINS (Wolf and Kopra) | | 02/ 17:55 | 10:58 AM | 11:58 AM | 15:58 |
| 46 | JEM EFBM MLI REMOVAL / JEF LTA DISCONNECT / ICC-VLD LTA RECONFIG / MAXI PREPARATIONS / NODE-2 CBCS FLAP RECONFIGS | | 02/ 18:40 | 11:43 AM | 12:43 PM | 16:43 |
| 46 | JEM BERTHING MECHANISM PREPARATIONS | | 02/ 18:40 | 11:43 AM | 12:43 PM | 16:43 |
| 46 | CETA CART MODIFICATIONS BEGIN | | 02/ 19:25 | 12:28 PM | 01:28 PM | 17:28 |
| 46 | SSRMS UNBERTHS JEF FROM ENDEAVOUR'S PAYLOAD BAY | | 02/ 19:40 | 12:43 PM | 01:43 PM | 17:43 |
| 46 | Z1 TOOL RETRIEVAL / NODE-1 CBCS WORK | | 02/ 19:55 | 12:58 PM | 01:58 PM | 17:58 |
| 46 | P3 NADIR UCCAS DEPLOY / JEM RMS MANEUVER TO JEF BERTHING VIEWING POSITION | | 02/ 20:10 | 01:13 PM | 02:13 PM | 18:13 |
| 47 | SSRMS HANDS OFF JEF TO SRMS | | 02/ 20:40 | 01:43 PM | 02:43 PM | 18:43 |
| 48 | SSRMS BASE CHANGE | | 02/ 21:50 | 02:53 PM | 03:53 PM | 19:53 |
| 48 | S3 ZENITH OUTBOARD PAS DEPLOY | | 02/ 22:40 | 03:43 PM | 04:43 PM | 20:43 |
| 49 | SRMS HANDOFF JEF TO SSRMS | | 02/ 23:20 | 04:23 PM | 05:23 PM | 21:23 |
| 49 | SSRMS INSTALLS JEF ON KIBO | | 02/ 23:35 | 04:38 PM | 05:38 PM | 21:38 |
| 49 | EVA # 1 ENDS | | 03/ 00:25 | 05:28 PM | 06:28 PM | 22:28 |
| 50 | POST-MMT BRIEFING | JSC | 03/ 01:27 | 06:30 PM | 07:30 PM | 23:30 |
| 51 | MISSION STATUS BRIEFING | JSC | 03/ 02:57 | 08:00 PM | 09:00 PM | 01:00 |
| 52 | ISS CREW SLEEP BEGINS | | 03/ 04:00 | 09:03 PM | 10:03 PM | 02:03 |

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|------------------------|--|-------------|------------|------------|------------|------------|
| 52 | ENDEAVOUR CREW SLEEP BEGINS | | 03/ 04:30 | 09:33 PM | 10:33 PM | 02:33 |
| 52 | FLIGHT DAY 4 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 03/ 04:57 | 10:00 PM | 11:00 PM | 03:00 |
| SUNDAY, JULY 19 | | | | | | |
| FD 4 / FD 5 | | | | | | |
| 56 | ISS FLIGHT DIRECTOR UPDATE | JSC | 03/ 10:27 | 03:30 AM | 04:30 AM | 08:30 |
| 57 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 5) | | 03/ 12:30 | 05:33 AM | 06:33 AM | 10:33 |
| 57 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 03/ 12:42 | 05:45 AM | 06:45 AM | 10:45 |
| 57 | * HIGH DEFINITION FLIGHT DAY 4 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 03/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 59 | SSRMS GRAPPLE & UNBERTH OBSS | | 03/ 14:30 | 07:33 AM | 08:33 AM | 12:33 |
| 59 | SSRMS HANDOFF OBSS TO SRMS | | 03/ 15:45 | 08:48 AM | 09:48 AM | 13:48 |
| 60 | SRMS/OBSS FOCUSED INSPECTION OF ENDEAVOUR TPS BEGINS (if required) | | 03/ 16:35 | 09:38 AM | 10:38 AM | 14:38 |
| 61 | MISSION STATUS BRIEFING | JSC | 03/ 18:27 | 11:30 AM | 12:30 PM | 16:30 |
| 62 | SRMS HANDOFF OBSS TO SSRMS | | 03/ 20:00 | 01:03 PM | 02:03 PM | 18:03 |
| 62 | OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY | | 03/ 20:15 | 01:18 PM | 02:18 PM | 18:18 |
| 63 | SRMS GRAPPLE & UNBERTH ICC FROM ENDEAVOUR'S PAYLOAD BAY & MANEUVERS TO HANDOFF POSITION | | 03/ 21:35 | 02:38 PM | 03:38 PM | 19:38 |
| 64 | CSA PAO EVENT | ISS Ku | 04/ 00:05 | 05:08 PM | 06:08 PM | 22:08 |
| 65 | EVA # 2 CREW PROCEDURE REVIEW | | 04/ 00:25 | 05:28 PM | 06:28 PM | 22:28 |

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|------------------------|--|-------------|------------|------------|------------|------------|
| 65 | CSA PAO EVENT REPLAY WITH ENGLISH INTERPRETATION | JSC | 04/ 01:27 | 06:30 PM | 07:30 PM | 23:30 |
| 65 | JOHN GLENN LECTURE SERIES - "40TH ANNIVERSARY OF APOLLO 11" | HQ | 04/ 01:57 | 07:00 PM | 08:00 PM | 00:00 |
| 66 | EVA # 2 CAMPOUT BEGINS (Wolf & Marshburn) | | 04/ 02:55 | 07:58 PM | 08:58 PM | 00:58 |
| 67 | ISS CREW SLEEP BEGINS | | 04/ 04:00 | 09:03 PM | 10:03 PM | 02:03 |
| 68 | ENDEAVOUR CREW SLEEP BEGINS | | 04/ 04:30 | 09:33 PM | 10:33 PM | 02:33 |
| 68 | FLIGHT DAY 5 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 04/ 04:57 | 10:00 PM | 11:00 PM | 03:00 |
| MONDAY, JULY 20 | | | | | | |
| FD 5 / FD 6 | | | | | | |
| 71 | ISS FLIGHT DIRECTOR UPDATE | JSC | 04/ 10:27 | 03:30 AM | 04:30 AM | 08:30 |
| 73 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 6) | | 04/ 12:30 | 05:33 AM | 06:33 AM | 10:33 |
| 73 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 04/ 12:42 | 05:45 AM | 06:45 AM | 10:45 |
| 73 | * HIGH DEFINITION FLIGHT DAY 5 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 04/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 73 | EVA # 2 PREPARATIONS RESUME | | 04/ 13:10 | 06:13 AM | 07:13 AM | 11:13 |
| 73 | VIDEO FILE | HQ | 04/ 13:27 | 06:30 AM | 07:30 AM | 11:30 |
| 75 | APOLLO 11 40TH ANNIVERSARY NEWS CONFERENCE | HQ | 04/ 15:27 | 08:30 AM | 09:30 AM | 13:30 |
| 75 | SRMS HANDOFF ICC TO SSRMS | | 04/ 15:35 | 08:38 AM | 09:38 AM | 13:38 |
| 75 | SSRMS INSTALLS ICC ON MBS POA | | 04/ 16:25 | 09:28 AM | 10:28 AM | 14:28 |

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|-------------------------|--|-------------|------------|------------|------------|------------|
| 76 | EVA # 2 BEGINS (Wolf & Marshburn) | | 04/ 17:25 | 10:28 AM | 11:28 AM | 15:28 |
| 77 | ICC ORU (SGANT, PM, LDU) TRANSFERS TO ESP-3 BEGIN; FIXED GRAPPLE BAR RELOCATE FROM ESP-2 TO P1 ATA | | 04/ 17:55 | 10:58 AM | 11:58 AM | 15:58 |
| 77 | * NASA EDUCATION SPECIAL EVENT AT THE NEWSEUM (NASA-TV Education Channel #102 only) | HQ | 04/ 18:27 | 11:30 AM | 12:30 PM | 16:30 |
| 79 | JEF FORWARD CAMERA INSTALLATION | | 04/ 22:15 | 03:18 PM | 04:18 PM | 20:18 |
| 80 | EVA #2 ENDS | | 04/ 23:55 | 04:58 PM | 05:58 PM | 21:58 |
| 81 | MISSION STATUS BRIEFING | JSC | 05/ 01:27 | 06:30 PM | 07:30 PM | 23:30 |
| 81 | NASA CELEBRATES THE APOLLO PROGRAM -- LIVE FROM THE SMITHSONIAN NATIONAL AIR & SPACE MUSEUM | HQ | 05/ 01:57 | 07:00 PM | 08:00 PM | 00:00 |
| 83 | ISS CREW SLEEP BEGINS | | 05/ 03:30 | 08:33 PM | 09:33 PM | 01:33 |
| 83 | ENDEAVOUR CREW SLEEP BEGINS | | 05/ 04:00 | 09:03 PM | 10:03 PM | 02:03 |
| 83 | FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 05/ 04:57 | 10:00 PM | 11:00 PM | 03:00 |
| TUESDAY, JULY 21 | | | | | | |
| FD 6 / FD 7 | | | | | | |
| 87 | ISS FLIGHT DIRECTOR UPDATE | JSC | 05/ 10:27 | 03:30 AM | 04:30 AM | 08:30 |
| 88 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 7) | | 05/ 12:00 | 05:03 AM | 06:03 AM | 10:03 |
| 89 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 05/ 12:27 | 05:30 AM | 06:30 AM | 10:30 |
| 89 | * HIGH DEFINITION FLIGHT DAY 6 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 05/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |

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|---------------------------|--|-------------|------------|------------|------------|------------|
| 89 | VIDEO FILE | HQ | 05/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 90 | SRMS GRAPPLE & UNBERTH JLE FROM ENDEAVOUR'S PAYLOAD BAY | | 05/ 14:05 | 07:08 AM | 08:08 AM | 12:08 |
| 91 | SRMS HANDS OFF JLE TO SSRMS | | 05/ 15:40 | 08:43 AM | 09:43 AM | 13:43 |
| 91 | SRMS INSTALLS JLE TO JEF | | 05/ 16:00 | 09:03 AM | 10:03 AM | 14:03 |
| 92 | SSRMS REMOVES ICC FROM MBS POA | | 05/ 17:50 | 10:53 AM | 11:53 AM | 15:53 |
| 92 | * NASA UPDATE WITH ADMINISTRATOR CHARLES BOLDEN AND DEPUTY ADMINISTRATOR LORI GARVER | HQ | 05/ 17:57 | 11:00 AM | 12:00 PM | 16:00 |
| 93 | MISSION STATUS BRIEFING | JSC | 05/ 18:57 | 12:00 PM | 01:00 PM | 17:00 |
| 93 | TWITTER - YOU TUBE PAO EVENT | ISS Ku | 05/ 20:10 | 01:13 PM | 02:13 PM | 18:13 |
| 94 | ENDEAVOUR CREW OFF DUTY PERIOD BEGINS | | 05/ 20:40 | 01:43 PM | 02:43 PM | 18:43 |
| 96 | EVA # 3 CREW PROCEDURE REVIEW | | 05/ 23:55 | 04:58 PM | 05:58 PM | 21:58 |
| 97 | EVA # 3 CAMPOUT BEGINS (Wolf & Cassidy) | | 06/ 02:25 | 07:28 PM | 08:28 PM | 00:28 |
| 99 | ISS CREW SLEEP BEGINS | | 06/ 03:30 | 08:33 PM | 09:33 PM | 01:33 |
| 99 | ENDEAVOUR CREW SLEEP BEGINS | | 06/ 04:00 | 09:03 PM | 10:03 PM | 02:03 |
| 99 | FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 06/ 04:57 | 10:00 PM | 11:00 PM | 03:00 |
| WEDNESDAY, JULY 22 | | | | | | |
| FD 7 / FD 8 | | | | | | |
| 103 | ISS FLIGHT DIRECTOR UPDATE | JSC | 06/ 10:27 | 03:30 AM | 04:30 AM | 08:30 |
| 104 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 8) | | 06/ 12:00 | 05:03 AM | 06:03 AM | 10:03 |

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|--------------------------|--|-------------|------------|------------|------------|------------|
| 104 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 06/ 12:27 | 05:30 AM | 06:30 AM | 10:30 |
| 104 | EVA # 3 PREPARATIONS RESUME | | 06/ 12:40 | 05:43 AM | 06:43 AM | 10:43 |
| 104 | HIGH DEFINITION FLIGHT DAY 7 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 06/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 104 | VIDEO FILE | HQ | 06/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 107 | SSRMS MANEUVERS ICC TO EVA WORKSITE | | 06/ 16:30 | 09:33 AM | 10:33 AM | 14:33 |
| 107 | EVA #3 BEGINS (Wolf and Cassidy) | | 06/ 16:55 | 09:58 AM | 10:58 AM | 14:58 |
| 108 | HANDRAIL & WORKSITE INTERFACE INSTALLATION / JEM MLI REMOVAL / JLE PAYLOAD PREPARATIONS | | 06/ 17:05 | 10:08 AM | 11:08 AM | 15:08 |
| 108 | P6 BATTERY REMOVAL / REPLACEMENT BEGINS | | 06/ 17:55 | 10:58 AM | 11:58 AM | 15:58 |
| 112 | EVA #3 ENDS | | 06/ 23:25 | 04:28 PM | 05:28 PM | 21:28 |
| 113 | MISSION STATUS BRIEFING | JSC | 07/ 01:27 | 06:30 PM | 07:30 PM | 23:30 |
| 114 | ISS CREW SLEEP BEGINS | | 07/ 03:00 | 08:03 PM | 09:03 PM | 01:03 |
| 114 | ENDEAVOUR CREW SLEEP BEGINS | | 07/ 03:30 | 08:33 PM | 09:33 PM | 01:33 |
| 114 | FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep) | JSC | 07/ 03:57 | 09:00 PM | 10:00 PM | 02:00 |
| THURSDAY, JULY 23 | | | | | | |
| FD 8 / FD 9 | | | | | | |
| 118 | ISS FLIGHT DIRECTOR UPDATE | JSC | 07/ 09:27 | 02:30 AM | 03:30 AM | 07:30 |
| 120 | ENDEAVOUR / ISS CREW WAKE UP (begins FD 9) | | 07/ 11:30 | 04:33 AM | 05:33 AM | 09:33 |
| 119 | ISS FLIGHT DIRECTOR UPDATE REPLAY | JSC | 07/ 11:57 | 05:00 AM | 06:00 AM | 10:00 |

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|--------------|--|-------------|------------|------------|------------|------------|
| 120 | VIDEO FILE | HQ | 07/ 12:27 | 05:30 AM | 06:30 AM | 10:30 |
| 120 | * HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replayed on the hour between 7:00am - 10:00am CT) | JSC | 07/ 12:57 | 06:00 AM | 07:00 AM | 11:00 |
| 121 | JEM RMS UNBERTHS MAXI FROM JLE | | 07/ 14:30 | 07:33 AM | 08:33 AM | 12:33 |
| 122 | EXPEDITION 21 / SPACEFLIGHT 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 |
| 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 |

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|------------------------|--|-------------|------------|------------|------------|------------|
| 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 |
| 138 | STS-125 CREW PRESENTATION (NASA-TV Media Channel #103 only) | HQ | 10/ 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 |
| 141 | JEF AFT CAMERA INSTALLATION | | 08/ 20:25 | 01:28 PM | 02:28 PM | 18:28 |
| 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 |

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|--------------------------|---|-------------|------------|------------|------------|------------|
| 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 / WGME-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 |
| 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 |
| 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 |

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

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|-------------------------|---|-------------|------------|------------|------------|------------|
| 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 |
| 185 | DEXTRE MLI RECONFIG / Z1 PATCH PANEL CABLE RECONFIG | | 11/ 14:55 | 07:58 AM | 08:58 AM | 12:58 |
| 186 | S3 NADIR OUTBOARD PAS DEPLOY | | 11/ 15:55 | 08:58 AM | 09:58 AM | 13:58 |
| 186 | S3 NADIR INBOARD PAS DEPLOY | | 11/ 17:25 | 10:28 AM | 11:28 AM | 15:28 |
| 187 | CAMERA PORT ONE WETA INSTALLATION | | 11/ 18:40 | 11:43 AM | 12:43 PM | 16:43 |
| 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/ 19:16 | 12:19 PM | 01:19 PM | 17:19 |
| 203 | ENDEAVOUR FLYAROUND BEGINS | | 12/ 19:41 | 12:44 PM | 01:44 PM | 17:44 |
| 204 | ENDEAVOUR FINAL SEPARATION FROM ISS | | 12/ 20:59 | 02:02 PM | 03:02 PM | 19:02 |
| 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/ 13:07 | 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 |
| 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 |

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|------------------------|---|-------------|------------|-------------|------------|------------|
| 232 | DRAGONSAT DEPLOYMENT | | 14/ 14:24 | 07:27 AM | 08:27 AM | 12:27 |
| 232 | ANDE-2 DEPLOYMENT | | 14/ 14:46 | 07:49 AM | 08:49 AM | 12:49 |
| 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 |
| 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/ 13:00 | 06:03 AM | 07:03 AM | 11:03 |
| 248 | DEORBIT BURN | | 15/ 15:40 | 08:43 AM | 09:43 AM | 13:43 |
| 249 | MILA C-BAND RADAR ACQUISITION OF ENDEAVOUR | | 15/ 16:29 | 09:32 AM | 10:32 AM | 14:32 |
| 248 | KSC LANDING | KSC | 15/ 16:42 | 09:45 AM | 10:45 AM | 14:45 |
| | POST-LANDING NEWS CONFERENCE | KSC | | NET L+2 HRS | | |

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

ORBIT

SUBJECT

SITE

MET

CDT

EDT

GMT

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 | | | | | |