
NASA TELEVISION SCHEDULE
 STS-127 / ISS 2 J/A
 Kibo Experiment Logistics Module - Exposed Section/Exposed Facility
 REV D
 7/15/09

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>
WEDNESDAY, JULY 15						
FD 1						
3	RMS CHECKOUT		00/ 03:55	08:58 PM	09:58 PM	01:58
3	ASCENT FLIGHT CONTROL TEAM VIDEO REPLAY	JSC	00/ 03:57	09:00 PM	10:00 PM	02:00
4	EXTERNAL TANK HANDHELD VIDEO DOWNLINK		00/ 05:00	10:03 PM	11:03 PM	03:03
5	ENDEAVOUR CREW SLEEP BEGINS		00/ 06:00	11:03 PM	12:03 AM	04:03
THURSDAY, JULY 16						
FD 1 / FD 2						
5	FLIGHT DAY 1 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	00/ 06:57	12:00 AM	01:00 AM	05:00
10	ENDEAVOUR CREW WAKE UP (begins FD 2)		00/ 14:00	07:03 AM	08:03 AM	12:03

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10	VIDEO FILE	HQ	00/	14:27	07:30 AM	08:30 AM	12:30
11	RMS OMS POD SURVEY		00/	15:45	08:48 AM	09:48 AM	13:48
13	NASA NEWS BRIEFING ON RESTORED APOLLO 11 MOONWALK VIDEO FROM THE NEWSEUM	HQ	00/	16:57	10:00 AM	11:00 AM	15:00
12	OBSS UNBERTH		00/	17:20	10:23 AM	11:23 AM	15:23
13	RMS/OBSS SURVEY OF ENDEAVOUR TPS BEGINS		00/	18:35	11:38 AM	12:38 PM	16:38
13	EMU CHECKOUT		00/	18:55	11:58 AM	12:58 PM	16:58
13	APOLLO 11 40TH ANNIVERSARY ROUNDTABLE (NASA-TV Public Channel #101 only)	HQ	00/	18:57	12:00 PM	01:00 PM	17:00
16	MISSION STATUS BRIEFING / POST MMT BRIEFING	JSC	00/	22:57	04:00 PM	05:00 PM	21:00
17	OBSS BERTH		01/	00:00	05:03 PM	06:03 PM	22:03
18	RENDEZVOUS TOOL CHECKOUT		01/	01:00	06:03 PM	07:03 PM	23:03
18	CENTERLINE CAMERA INSTALLATION		01/	01:20	06:23 PM	07:23 PM	23:23
18	ODS RING EXTENSION		01/	01:35	06:38 PM	07:38 PM	23:38
20	ENDEAVOUR CREW SLEEP BEGINS		01/	05:00	10:03 PM	11:03 PM	03:03
21	FLIGHT DAY 2 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	01/	05:57	11:00 PM	12:00 AM	04:00
FRIDAY, JULY 17							
FD 2 / FD 3							
26	ENDEAVOUR CREW WAKE UP (begins FD 3)		01/	13:00	06:03 AM	07:03 AM	11:03
26	VIDEO FILE	HQ	01/	13:57	07:00 AM	08:00 AM	12:00
27	RENDEZVOUS OPERATIONS BEGIN		01/	14:20	07:23 AM	08:23 AM	12:23

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29	TI BURN			01/ 17:14	10:17 AM	11:17 AM	15:17
30	ENDEAVOUR RPM / ISS CREW VIDEO DOCUMENTATION BEGINS			01/ 19:00	12:03 PM	01:03 PM	17:03
30	ENDEAVOUR / ISS DOCKING			01/ 19:52	12:55 PM	01:55 PM	17:55
31	ENDEAVOUR / ISS CREW HATCH OPENING AND WELCOME CEREMONY			01/ 21:40	02:43 PM	03:43 PM	19:43
32	WAKATA / KOPRA SOYUZ SEATLINER SWAP AND INSTALLATION (Kopra officially joins Expedition 20, Wakata joins STS-127 Crew)			01/ 23:10	04:13 PM	05:13 PM	21:13
33	MISSION STATUS BRIEFING / POST MMT BRIEFING	JSC		01/ 23:27	04:30 PM	05:30 PM	21:30
33	JEM RMS MANEUVER TO JEF BERTHING VIEWING POSITION			02/ 00:00	05:03 PM	06:03 PM	22:03
33	VTR PLAYBACK OF ENDEAVOUR / ISS DOCKING			02/ 01:00	06:03 PM	07:03 PM	23:03
33	EVA # 1 CREW PROCEDURE REVIEW			02/ 01:00	06:03 PM	07:03 PM	23:03
35	EVA # 1 CAMPOUT BEGINS (Wolf & Kopra)			02/ 03:25	08:28 PM	09:28 PM	01:28
36	ISS CREW SLEEP BEGINS			02/ 04:30	09:33 PM	10:33 PM	02:33
36	ENDEAVOUR CREW SLEEP BEGINS			02/ 05:00	10:03 PM	11:03 PM	03:03
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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
38	HIGH DEFINITION FLIGHT DAY 3 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	02/ 07:57	01:00 AM	02:00 AM	06:00
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	ENDEAVOUR / ISS CREW WAKE UP (begins FD 4)		02/ 13:00	06:03 AM	07:03 AM	11:03
42	EVA # 1 PREPARATIONS RESUME		02/ 14:30	07:33 AM	08:33 AM	12:33
44	SSRMS GRAPPLES JEF		02/ 17:05	10:08 AM	11:08 AM	15:08
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		02/ 20:10	01:13 PM	02:13 PM	18:13
47	SSRMS HANDS OFF JEF TO RMS		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	SRMS INSTALLS JEF ON KIBO		02/ 23:35	04:38 PM	05:38 PM	21:38

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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
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

54	HIGH DEFINITION FLIGHT DAY 4 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	03/ 07:57	01:00 AM	02:00 AM	06:00
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
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/ 19:00	12:03 PM	01:03 PM	17:03
62	OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY		03/ 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>
63	SRMS GRAPPLE & UNBERTH ICC FROM ENDEAVOUR'S PAYLOAD BAY & MANEUVERS TO HANDOFF POSITION		03/ 21:25	02:28 PM	03:28 PM	19:28
64	CSA PAO EVENT	ISS Ku	04/ 00:00	05:03 PM	06:03 PM	22:03
65	EVA # 2 CREW PROCEDURE REVIEW		04/ 00:25	05:28 PM	06:28 PM	22:28
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

70	HIGH DEFINITION FLIGHT DAY 5 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	04/ 07:57	01:00 AM	02:00 AM	06:00
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	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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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
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
78	NASA EDUCATION SPECIAL EVENT AT THE NEWSEUM (NASA-TV Education Channel #102 only)	HQ	04/ 19:57	01:00 PM	02:00 PM	18:00
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

85	HIGH DEFINITION FLIGHT DAY 6 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 3:00am CT and 4:00am CT)	JSC	05/ 06:57	12:00 AM	01:00 AM	05:00
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<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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	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	MISSION STATUS BRIEFING	JSC	05/ 18:27	11:30 AM	12:30 PM	16:30
92	SSRMS REMOVES ICC FROM MBS POA		05/ 18:30	11:33 AM	12:33 PM	16:33
93	TWITTER - YOU TUBE PAO EVENT	ISS Ku	05/ 19:55	12:58 PM	01:58 PM	17:58
94	ENDEAVOUR CREW OFF DUTY PERIOD BEGINS		05/ 20:30	01:33 PM	02:33 PM	18:33
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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
100	HIGH DEFINITION FLIGHT DAY 7 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	06/ 06:57	12:00 AM	01:00 AM	05:00
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
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	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						

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
116	HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 3:00am CT and 4:00am CT)	JSC	07/ 06:57	12:00 AM	01:00 AM	05:00
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
120	VIDEO FILE	HQ	07/ 12:27	05:30 AM	06:30 AM	10:30
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
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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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
131	HIGH DEFINITION FLIGHT DAY 9 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 2:00am CT and 3:00am CT)	JSC	08/ 05:57	11:00 PM	12:00 AM	04:00
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
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

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>		<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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
147	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 2:00am CT and 3:00am CT)	JSC	09/	05:57	11:00 PM	12:00 AM	04:00

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
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
162	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 1:00am CT and 2:00am CT)	JSC	10/	04:57	10:00 PM	11:00 PM	03:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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 VIP 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	JAXA VIP 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

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178	HIGH DEFINITION FLIGHT DAY 12 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 1:00am CT and 2:00am CT)	JSC	11/ 04:57	10:00 PM	11:00 PM	03:00
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
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/ 02:57	08:00 PM	09:00 PM	01:00

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194	HIGH DEFINITION FLIGHT DAY 13 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 12:00am CT and 1:00am CT)	JSC	12/ 03:57	09:00 PM	10:00 PM	02:00
TUESDAY, JULY 28						
FD 14						
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	SSRMS HANDOFF OBSS TO SRMS		12/ 11:20	04:23 AM	05:23 AM	09:23
198	VIDEO FILE	HQ	12/ 11:57	05:00 AM	06:00 AM	10:00
199	RENDEZVOUS TOOL CHECKOUT		12/ 13:00	06:03 AM	07:03 AM	11:03
200	U.S. CREW CHOICE EVENT	ISS Ku	12/ 14:30	07:33 AM	08:33 AM	12:33
201	FAREWELL AND HATCH CLOSURE		12/ 16:00	09:03 AM	10:03 AM	14:03
201	ODS HATCH LEAK CHECK		12/ 16:30	09:33 AM	10:33 AM	14:33
202	CENTERLINE CAMERA INSTALLATION		12/ 17:00	10:03 AM	11:03 AM	15:03
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
219	VTR PLAYBACK OF UNDOCKING		12/ 22:00	03:03 PM	04:03 PM	20:03
207	ENDEAVOUR CREW SLEEP BEGINS		13/ 01:00	06:03 PM	07:03 PM	23:03

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208	FLIGHT DAY 14 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	13/	01:57	07:00 PM	08:00 PM	00:00
209	HIGH DEFINITION FLIGHT DAY 14 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replays at 12:00am CT and 1:00am CT)	JSC	13/	03:57	09:00 PM	10:00 PM	02:00

WEDNESDAY, JULY 29

FD 15

212	ENDEAVOUR CREW WAKE UP (begins FD 15)		13/	09:00	02:03 AM	03:03 AM	07:03
217	RMS / OBSS LATE INSPECTION OF ENDEAVOUR'S TPS BEGINS		13/	13:00	06:03 AM	07:03 AM	11:03
216	PROGRESS 34 DOCKING TO ISS		13/	13:08	06:11 AM	07:11 AM	11:11
217	CABIN STOWAGE BEGINS		13/	17:00	10:03 AM	11:03 AM	15:03
220	OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY		13/	19:00	12:03 PM	01:03 PM	17:03
220	MISSION STATUS BRIEFING	JSC	13/	20:57	02:00 PM	03:00 PM	19:00
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/	10:30	03:33 AM	04:33 AM	08:33
230	RCS HOT-FIRE TEST		14/	11:40	04:43 AM	05:43 AM	09:43

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
230	CREW DEORBIT PREPARATION BRIEFING		14/ 12:00	05:03 AM	06:03 AM	10:03
231	CABIN STOWAGE RESUMES		14/ 13:00	06:03 AM	07:03 AM	11:03
231	VIDEO FILE	HQ	14/ 13:27	06:30 AM	07:30 AM	11:30
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
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

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248	KSC LANDING	KSC	15/ 16:42	09:45 AM	10:45 AM	14:45
	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		

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

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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					

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
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					