
NASA TELEVISION SCHEDULE
 STS-127 / ISS 2 J/A
 Kibo Experiment Logistics Module - Exposed Section/Exposed Facility
 7/06/09

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>

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
TUESDAY, JULY 7						
	ISS EXPEDITION 20 ESA PAO EVENT FOR ATV COMMEMORATION IN BREMEN, GERMANY	JSC		8:20 AM	9:20 AM	13:20
	EXPEDITION 20 ISS COMMENTARY	JSC		10:00 AM	11:00 AM	15:00
	VIDEO FILE	HQ		11:00 AM	12:00 PM	16:00
	STS-127 CREW ARRIVAL	KSC		1:00 PM	2:00 PM	18:00
WEDNESDAY, JULY 8						
	COUNTDOWN STATUS BRIEFING	KSC		9:00 AM	10:00 AM	14:00
	EXPEDITION 20 ISS COMMENTARY	JSC		10:00 AM	11:00 AM	15:00
	VIDEO FILE	HQ		11:00 AM	12:00 PM	16:00

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	ISS EXPEDITION 20 CSA PAO EVENT WITH THE UNIVERSITY OF CALGARY	JSC		12:00 PM	1:00 PM	17:00
	U.S. SENATE CONFIRMATION HEARING FOR GEN. CHARLES BOLDEN AND LORI GARVER AS NASA ADMINISTRATOR AND DEPUTY ADMINISTRATOR	HQ		1:00 PM	2:00 PM	18:00
THURSDAY, JULY 9						
	COUNTDOWN STATUS BRIEFING	KSC		9:00 AM	10:00 AM	14:00
	EXPEDITION 20 ISS COMMENTARY	JSC		10:00 AM	11:00 AM	15:00
	VIDEO FILE	HQ		11:00 AM	12:00 PM	16:00
FRIDAY, JULY 10						
	PRELAUNCH NEWS CONFERENCE	KSC		10:00 AM	11:00 AM	15:00
	VIDEO FILE	HQ		11:00 AM	12:00 PM	16:00
	LAUNCH PAD 39-A ROTATING SERVICE STRUCTURE RETRACTION	KSC		10:00 PM	11:00 PM	3:00
SATURDAY, JULY 11						
FD 1						
	ENDEAVOUR FUELING COMMENTARY	KSC		9:00 AM	10:00 AM	14:00
	ENDEAVOUR LAUNCH COVERAGE BEGINS	KSC		1:30 PM	2:30 PM	18:30
	LAUNCH	KSC	00/ 00:00	06:39 PM	07:39 PM	23:39
	MECO		00/ 00:08	06:47 PM	07:47 PM	23:47
1	NASA TELEVISION ORIGINATION SWITCHED TO JSC	JSC	00/ 00:10	06:49 PM	07:49 PM	23:49
1	NASA TELEVISION ORIGINATION SWITCHED TO KSC	KSC	00/ 00:13	06:52 PM	07:52 PM	23:52

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1	LAUNCH REPLAYS (approx. 5 min. after MECO) T=30:00	KSC	00/ 00:13	06:52 PM	07:52 PM	23:52
1	ADDITIONAL LAUNCH REPLAYS FROM KSC		00/ 00:45	07:24 PM	08:24 PM	00:24
1	POST LAUNCH NEWS CONFERENCE	KSC	00/ 00:51	07:30 PM	08:30 PM	00:30
1	PAYLOAD BAY DOOR OPENING (may not be televised live)		00/ 01:25	08:04 PM	09:04 PM	01:04
3	ASCENT FLIGHT CONTROL TEAM VIDEO REPLAY	JSC	00/ 03:51	10:30 PM	11:30 PM	03:30
3	RMS CHECKOUT		00/ 03:55	10:34 PM	11:34 PM	03:34
4	EXTERNAL TANK HANDHELD VIDEO DOWNLINK		00/ 05:00	11:39 PM	12:39 AM	04:39
SUNDAY, JULY 12						
FD 1 / FD 2						
5	ENDEAVOUR CREW SLEEP BEGINS		00/ 06:00	12:39 AM	01:39 AM	05:39
6	FLIGHT DAY 1 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	00/ 06:21	01:00 AM	02:00 AM	06:00
10	ENDEAVOUR CREW WAKE UP (begins FD 2)		00/ 14:00	08:39 AM	09:39 AM	13:39
11	PROGRESS 33 AUTOMATED RE-RENDEZVOUS WITH ISS BEGINS (closest approach to ISS at 12:06pm CT)		00/ 14:51	09:30 AM	10:30 AM	14:30
11	RMS OMS POD SURVEY		00/ 15:45	10:24 AM	11:24 AM	15:24
12	OBSS UNBERTH		00/ 17:20	11:59 AM	12:59 PM	16:59
13	RMS/OBSS SURVEY OF ENDEAVOUR TPS BEGINS		00/ 18:35	01:14 PM	02:14 PM	18:14
13	EMU CHECKOUT		00/ 18:55	01:34 PM	02:34 PM	18:34
16	MISSION STATUS BRIEFING / POST MMT BRIEFING	JSC	00/ 22:21	05:00 PM	06:00 PM	22:00
17	OBSS BERTH		01/ 00:20	06:59 PM	07:59 PM	23:59

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18	CENTERLINE CAMERA INSTALLATION		01/ 01:20	07:59 PM	08:59 PM	00:59
18	ODS RING EXTENSION		01/ 01:35	08:14 PM	09:14 PM	01:14
18	RENDEZVOUS TOOL CHECKOUT		01/ 01:50	08:29 PM	09:29 PM	01:29
21	ENDEAVOUR CREW SLEEP BEGINS		01/ 05:00	11:39 PM	12:39 AM	04:39

MONDAY, JULY 13

FD 2 / FD 3

21	FLIGHT DAY 2 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	01/ 05:21	12:00 AM	01:00 AM	05:00
26	ENDEAVOUR CREW WAKE UP (begins FD 3)		01/ 13:00	07:39 AM	08:39 AM	12:39
26	VIDEO FILE	HQ	01/ 13:21	08:00 AM	09:00 AM	13:00
27	RENDEZVOUS OPERATIONS BEGIN		01/ 14:20	08:59 AM	09:59 AM	13:59
29	TI BURN		01/ 17:09	11:48 AM	12:48 PM	16:48
30	ENDEAVOUR RPM / ISS CREW VIDEO DOCUMENTATION BEGINS		01/ 19:00	01:39 PM	02:39 PM	18:39
31	ENDEAVOUR / ISS DOCKING		01/ 19:47	02:26 PM	03:26 PM	19:26
32	ENDEAVOUR / ISS CREW HATCH OPENING AND WELCOME CEREMONY		01/ 21:40	04:19 PM	05:19 PM	21:19
32	MISSION STATUS BRIEFING / POST MMT BRIEFING	JSC	01/ 22:51	05:30 PM	06:30 PM	22:30
32	WAKATA / KOPRA SOYUZ SEATLINER SWAP AND INSTALLATION (Kopra officially joins Expedition 20, Wakata joins STS-127 Crew)		01/ 23:10	05:49 PM	06:49 PM	22:49
33	JEM RMS MANEUVER TO JEF BERTHING VIEWING POSITION		01/ 23:30	06:09 PM	07:09 PM	23:09
33	VTR PLAYBACK OF ENDEAVOUR / ISS DOCKING		02/ 00:10	06:49 PM	07:49 PM	23:49

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34	EVA # 1 CREW PROCEDURE REVIEW		02/ 00:55	07:34 PM	08:34 PM	00:34
36	EVA # 1 CAMPOUT BEGINS (Wolf & Kopra)		02/ 03:25	10:04 PM	11:04 PM	03:04
36	ISS CREW SLEEP BEGINS		02/ 04:30	11:09 PM	12:09 AM	04:09
37	ENDEAVOUR CREW SLEEP BEGINS		02/ 05:00	11:39 PM	12:39 AM	04:39
TUESDAY, JULY 14						
FD 3 / FD 4						
37	FLIGHT DAY 3 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	02/ 05:21	12:00 AM	01:00 AM	05:00
39	HIGH DEFINITION FLIGHT DAY 3 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 5:00am CT and 6:00am CT)	JSC	02/ 08:21	03:00 AM	04:00 AM	08:00
40	ISS FLIGHT DIRECTOR UPDATE	JSC	02/ 10:21	05:00 AM	06:00 AM	10:00
42	ENDEAVOUR / ISS CREW WAKE UP (begins FD 4)		02/ 13:00	07:39 AM	08:39 AM	12:39
42	VIDEO FILE	HQ	02/ 13:21	08:00 AM	09:00 AM	13:00
42	EVA # 1 PREPARATIONS RESUME		02/ 13:40	08:19 AM	09:19 AM	13:19
44	SSRMS GRAPPLES JEF		02/ 16:35	11:14 AM	12:14 PM	16:14
45	EVA # 1 BEGINS (Wolf and Kopra)		02/ 17:55	12:34 PM	01:34 PM	17:34
46	JEM EFBM MLI REMOVAL / JEF LTA DISCONNECT / ICC-VLD LTA RECONFIG / MAXI PREPARATIONS / NODE-2 CBCS FLAP RECONFIGS		02/ 18:40	01:19 PM	02:19 PM	18:19
46	JEM BERTHING MECHANISM PREPARATIONS		02/ 18:40	01:19 PM	02:19 PM	18:19
46	CETA CART MODIFICATIONS BEGIN		02/ 19:25	02:04 PM	03:04 PM	19:04

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46	SSRMS UNBERTHS JEF FROM ENDEAVOUR'S PAYLOAD BAY		02/ 19:40	02:19 PM	03:19 PM	19:19
46	Z1 TOOL RETRIEVAL / NODE-1 CBCS WORK		02/ 19:55	02:34 PM	03:34 PM	19:34
46	P3 NADIR UCCAS DEPLOY		02/ 20:10	02:49 PM	03:49 PM	19:49
47	SSRMS HANDS OFF JEF TO RMS		02/ 20:40	03:19 PM	04:19 PM	20:19
47	SSRMS BASE CHANGE		02/ 21:50	04:29 PM	05:29 PM	21:29
48	S3 ZENITH OUTBOARD PAS DEPLOY		02/ 22:40	05:19 PM	06:19 PM	22:19
48	SRMS HANDOFF JEF TO SSRMS		02/ 23:20	05:59 PM	06:59 PM	22:59
49	SRMS INSTALLS JEF ON KIBO		02/ 23:35	06:14 PM	07:14 PM	23:14
49	EVA # 1 ENDS		03/ 00:25	07:04 PM	08:04 PM	00:04
49	POST-MMT BRIEFING	JSC	03/ 01:21	08:00 PM	09:00 PM	01:00
51	MISSION STATUS BRIEFING	JSC	03/ 02:51	09:30 PM	10:30 PM	02:30
52	ISS CREW SLEEP BEGINS		03/ 04:00	10:39 PM	11:39 PM	03:39
52	ENDEAVOUR CREW SLEEP BEGINS		03/ 04:30	11:09 PM	12:09 AM	04:09

WEDNESDAY, JULY 15

FD 4 / FD 5

53	FLIGHT DAY 4 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	03/ 05:21	12:00 AM	01:00 AM	05:00
54	HIGH DEFINITION FLIGHT DAY 4 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 5:00am CT and 6:00am CT)	JSC	03/ 08:21	03:00 AM	04:00 AM	08:00
56	ISS FLIGHT DIRECTOR UPDATE	JSC	03/ 11:21	06:00 AM	07:00 AM	11:00
57	ENDEAVOUR / ISS CREW WAKE UP (begins FD 5)		03/ 12:30	07:09 AM	08:09 AM	12:09

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58	VIDEO FILE	HQ	03/ 13:21	08:00 AM	09:00 AM	13:00
59	SSRMS GRAPPLE & UNBERTH OBSS		03/ 14:30	09:09 AM	10:09 AM	14:09
59	SSRMS HANDOFF OBSS TO SRMS		03/ 15:45	10:24 AM	11:24 AM	15:24
60	SRMS/OBSS FOCUSED INSPECTION OF ENDEAVOUR TPS BEGINS (if required)		03/ 16:35	11:14 AM	12:14 PM	16:14
61	MISSION STATUS BRIEFING	JSC	03/ 19:21	02:00 PM	03:00 PM	19:00
62	SRMS HANDOFF OBSS TO SSRMS		03/ 20:00	02:39 PM	03:39 PM	19:39
62	OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY		03/ 20:15	02:54 PM	03:54 PM	19:54
64	SRMS GRAPPLE & UNBERTH ICC FROM ENDEAVOUR'S PAYLOAD BAY & MANEUVERS TO HANDOFF POSITION		03/ 21:55	04:34 PM	05:34 PM	21:34
64	CSA PAO EVENT	ISS Ku	04/ 00:00	06:39 PM	07:39 PM	23:39
65	EVA # 2 CREW PROCEDURE REVIEW		04/ 00:25	07:04 PM	08:04 PM	00:04
66	CSA PAO EVENT REPLAY WITH ENGLISH INTERPRETATION	JSC	04/ 02:21	09:00 PM	10:00 PM	02:00
67	EVA # 2 CAMPOUT BEGINS (Wolf & Marshburn)		04/ 02:55	09:34 PM	10:34 PM	02:34
68	ISS CREW SLEEP BEGINS		04/ 04:00	10:39 PM	11:39 PM	03:39
68	ENDEAVOUR CREW SLEEP BEGINS		04/ 04:30	11:09 PM	12:09 AM	04:09
THURSDAY, JULY 16						
FD 5 / FD 6						
68	FLIGHT DAY 5 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	04/ 05:21	12:00 AM	01:00 AM	05:00

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70	HIGH DEFINITION FLIGHT DAY 5 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 5:00am CT and 6:00am CT)	JSC	04/ 08:21	03:00 AM	04:00 AM	08:00
72	ISS FLIGHT DIRECTOR UPDATE	JSC	04/ 11:21	06:00 AM	07:00 AM	11:00
73	ENDEAVOUR / ISS CREW WAKE UP (begins FD 6)		04/ 12:30	07:09 AM	08:09 AM	12:09
74	EVA # 2 PREPARATIONS RESUME		04/ 13:10	07:49 AM	08:49 AM	12:49
73	VIDEO FILE	HQ	04/ 13:21	08:00 AM	09:00 AM	13:00
75	SRMS HANDOFF ICC TO SSRMS		04/ 15:35	10:14 AM	11:14 AM	15:14
76	SSRMS INSTALLS ICC ON MBS POA		04/ 16:25	11:04 AM	12:04 PM	16:04
76	EVA # 2 BEGINS (Wolf & Marshburn)		04/ 17:25	12:04 PM	01:04 PM	17:04
77	ICC ORU (SGANT, PM, LDU) TRANSFERS TO ESP-3 BEGIN; FIXED GRAPPLE BAR RELOCATE FROM ESP-2 TO P1 ATA		04/ 17:55	12:34 PM	01:34 PM	17:34
80	JEF FORWARD CAMERA INSTALLATION		04/ 22:15	04:54 PM	05:54 PM	21:54
81	EVA #2 ENDS		04/ 23:55	06:34 PM	07:34 PM	23:34
82	MISSION STATUS BRIEFING	JSC	05/ 02:21	09:00 PM	10:00 PM	02:00
83	ISS CREW SLEEP BEGINS		05/ 03:30	10:09 PM	11:09 PM	03:09
83	ENDEAVOUR CREW SLEEP BEGINS		05/ 04:00	10:39 PM	11:39 PM	03:39
83	FLIGHT DAY 6 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	05/ 04:21	11:00 PM	12:00 AM	04:00

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FRIDAY, JULY 17						
FD 6 / FD 7						
85	HIGH DEFINITION FLIGHT DAY 6 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 4:00am CT and 5:00am CT)	JSC	05/ 07:21	02:00 AM	03:00 AM	07:00
88	ISS FLIGHT DIRECTOR UPDATE	JSC	05/ 11:21	06:00 AM	07:00 AM	11:00
89	ENDEAVOUR / ISS CREW WAKE UP (begins FD 7)		05/ 12:00	06:39 AM	07:39 AM	11:39
89	VIDEO FILE	HQ	05/ 12:21	07:00 AM	08:00 AM	12:00
90	SRMS GRAPPLE & UNBERTH JLE FROM ENDEAVOUR'S PAYLOAD BAY		05/ 14:05	08:44 AM	09:44 AM	13:44
91	SRMS HANDS OFF JLE TO SSRMS		05/ 15:40	10:19 AM	11:19 AM	15:19
91	SRMS INSTALLS JLE TO JEF		05/ 16:00	10:39 AM	11:39 AM	15:39
92	SSRMS REMOVES ICC FROM MBS POA		05/ 17:50	12:29 PM	01:29 PM	17:29
93	U.S. PAO EVENT	ISS Ku	05/ 19:55	02:34 PM	03:34 PM	19:34
93	MISSION STATUS BRIEFING	JSC	05/ 20:36	03:15 PM	04:15 PM	20:15
94	ENDEAVOUR CREW OFF DUTY PERIOD BEGINS		05/ 20:40	03:19 PM	04:19 PM	20:19
96	EVA # 3 CREW PROCEDURE REVIEW		05/ 23:55	06:34 PM	07:34 PM	23:34
98	EVA # 3 CAMPOUT BEGINS (Wolf & Cassidy)		06/ 02:25	09:04 PM	10:04 PM	02:04
99	ISS CREW SLEEP BEGINS		06/ 03:30	10:09 PM	11:09 PM	03:09
99	ENDEAVOUR CREW SLEEP BEGINS		06/ 04:00	10:39 PM	11:39 PM	03:39
99	FLIGHT DAY 7 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	06/ 04:21	11:00 PM	12:00 AM	04:00

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SATURDAY, JULY 18						
FD 7 / FD 8						
100	HIGH DEFINITION FLIGHT DAY 7 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 4:00am CT and 5:00am CT)	JSC	06/ 07:21	02:00 AM	03:00 AM	07:00
104	ISS FLIGHT DIRECTOR UPDATE	JSC	06/ 11:21	06:00 AM	07:00 AM	11:00
104	ENDEAVOUR / ISS CREW WAKE UP (begins FD 8)		06/ 12:00	06:39 AM	07:39 AM	11:39
105	EVA # 3 PREPARATIONS RESUME		06/ 12:40	07:19 AM	08:19 AM	12:19
107	SSRMS MANEUVERS ICC TO EVA WORKSITE		06/ 16:30	11:09 AM	12:09 PM	16:09
107	EVA #3 BEGINS (Wolf and Cassidy)		06/ 16:55	11:34 AM	12:34 PM	16:34
108	HANDRAIL & WORKSITE INTERFACE INSTALLATION /		06/ 17:25	12:04 PM	01:04 PM	17:04
108	P6 BATTERY REMOVAL / REPLACEMENT BEGINS		06/ 17:55	12:34 PM	01:34 PM	17:34
112	EVA #3 ENDS		06/ 23:25	06:04 PM	07:04 PM	23:04
113	MISSION STATUS BRIEFING	JSC	07/ 01:51	08:30 PM	09:30 PM	01:30
114	ISS CREW SLEEP BEGINS		07/ 03:00	09:39 PM	10:39 PM	02:39
114	ENDEAVOUR CREW SLEEP BEGINS		07/ 03:30	10:09 PM	11:09 PM	03:09
115	FLIGHT DAY 8 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	07/ 04:21	11:00 PM	12:00 AM	04:00
SUNDAY, JULY 19						
FD 8 / FD 9						
116	HIGH DEFINITION FLIGHT DAY 8 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 4:00am CT and 5:00am CT)	JSC	07/ 07:21	02:00 AM	03:00 AM	07:00
119	ISS FLIGHT DIRECTOR UPDATE	JSC	07/ 10:21	05:00 AM	06:00 AM	10:00

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120	ENDEAVOUR / ISS CREW WAKE UP (begins FD 9)		07/ 11:30	06:09 AM	07:09 AM	11:09
121	JEM RMS UNBERTHS MAXI FROM JLE		07/ 14:30	09:09 AM	10:09 AM	14:09
123	JEM RMS INSTALLS MAXI ON JEF		07/ 15:55	10:34 AM	11:34 AM	15:34
123	JEM RMS UNBERTHS ICS FROM JLE		07/ 16:45	11:24 AM	12:24 PM	16:24
124	JEM RMS INSTALLS ICS ON JEF		07/ 18:10	12:49 PM	01:49 PM	17:49
125	JEM RMS UNBERTHS SEDA FROM JLE		07/ 18:50	01:29 PM	02:29 PM	18:29
125	JEM RMS INSTALLS SEDA ON JEF		07/ 20:15	02:54 PM	03:54 PM	19:54
126	U.S. PAO EVENT	ISS Ku	07/ 22:20	04:59 PM	05:59 PM	21:59
127	EVA #4 CREW PROCEDURE REVIEW		07/ 22:55	05:34 PM	06:34 PM	22:34
128	U.S. PAO EVENT	ISS Ku	08/ 00:00	06:39 PM	07:39 PM	23:39
129	EVA # 4 CAMPOUT BEGINS (Cassidy & Marshburn)		08/ 01:25	08:04 PM	09:04 PM	01:04
128	MISSION STATUS BRIEFING	JSC	08/ 01:51	08:30 PM	09:30 PM	01:30
130	ISS CREW SLEEP BEGINS		08/ 02:30	09:09 PM	10:09 PM	02:09
130	ENDEAVOUR CREW SLEEP BEGINS		08/ 03:00	09:39 PM	10:39 PM	02:39
130	FLIGHT DAY 9 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	08/ 03:21	10:00 PM	11:00 PM	03:00
MONDAY, JULY 20						
FD 9 / FD 10						
132	HIGH DEFINITION FLIGHT DAY 9 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 4:00am CT and 5:00am CT)	JSC	08/ 06:21	01:00 AM	02:00 AM	06:00
135	ISS FLIGHT DIRECTOR UPDATE	JSC	08/ 10:21	05:00 AM	06:00 AM	10:00

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135	ENDEAVOUR / ISS CREW WAKE UP (begins FD 10)		08/ 11:00	05:39 AM	06:39 AM	10:39
135	VIDEO FILE	HQ	08/ 11:21	06:00 AM	07:00 AM	11:00
136	EVA # 4 PREPARATIONS RESUME		08/ 11:40	06:19 AM	07:19 AM	11:19
138	SSRMS MANEUVERS ICC TO EVA WORKSITE		08/ 15:30	10:09 AM	11:09 AM	15:09
138	EVA # 4 BEGINS (Cassidy & Marshburn)		08/ 15:55	10:34 AM	11:34 AM	15:34
139	P6 BATTERY REMOVAL/REPLACEMENT CONTINUES		08/ 16:25	11:04 AM	12:04 PM	16:04
141	JEF AFT CAMERA INSTALLATION		08/ 20:25	03:04 PM	04:04 PM	20:04
142	SSRMS HANDOFF ICC TO SRMS		08/ 21:00	03:39 PM	04:39 PM	20:39
142	SRMS BERTHS ICC IN ENDEAVOUR'S PAYLOAD BAY		08/ 21:35	04:14 PM	05:14 PM	21:14
143	EVA # 4 ENDS		08/ 22:25	05:04 PM	06:04 PM	22:04
144	MISSION STATUS BRIEFING	JSC	09/ 00:51	07:30 PM	08:30 PM	00:30
145	ISS CREW SLEEP BEGINS		09/ 02:00	08:39 PM	09:39 PM	01:39
145	ENDEAVOUR CREW SLEEP BEGINS		09/ 02:30	09:09 PM	10:09 PM	02:09
146	FLIGHT DAY 10 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	09/ 03:21	10:00 PM	11:00 PM	03:00
TUESDAY, JULY 21						
FD 10 / FD 11						
147	HIGH DEFINITION FLIGHT DAY 10 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 4:00am CT and 5:00am CT)	JSC	09/ 06:21	01:00 AM	02:00 AM	06:00
149	ISS FLIGHT DIRECTOR UPDATE	JSC	09/ 09:21	04:00 AM	05:00 AM	09:00
151	ENDEAVOUR / ISS CREW WAKE UP (begins FD 11)		09/ 10:30	05:09 AM	06:09 AM	10:09

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
151	VIDEO FILE	HQ	09/ 11:21	06:00 AM	07:00 AM	11:00
153	U.S. PAO EVENT	ISS Ku	09/ 14:00	08:39 AM	09:39 AM	13:39
153	ENDEAVOUR / ISS OFF DUTY PERIODS BEGIN		09/ 14:20	08:59 AM	09:59 AM	13:59
155	MISSION STATUS BRIEFING	JSC	09/ 17:21	12:00 PM	01:00 PM	17:00
160	ISS CREW SLEEP BEGINS		10/ 01:30	08:09 PM	09:09 PM	01:09
161	ENDEAVOUR CREW SLEEP BEGINS		10/ 02:00	08:39 PM	09:39 PM	01:39
161	FLIGHT DAY 11 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	10/ 02:21	09:00 PM	10:00 PM	02:00

WEDNESDAY, JULY 22

FD 11 / FD 12

163	HIGH DEFINITION FLIGHT DAY 11 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; Replays at 3:00am CT and 4:00am CT)	JSC	10/ 05:21	12:00 AM	01:00 AM	05:00
165	ISS FLIGHT DIRECTOR UPDATE	JSC	10/ 09:21	04:00 AM	05:00 AM	09:00
166	ENDEAVOUR / ISS CREW WAKE UP (begins FD 12)		10/ 10:00	04:39 AM	05:39 AM	09:39
167	JAXA VIP EVENT	ISS Ku	10/ 11:10	05:49 AM	06:49 AM	10:49
167	VIDEO FILE	HQ	10/ 11:51	06:30 AM	07:30 AM	11:30
167	JAXA VIP EVENT REPLAY WITH ENGLISH INTERPRETATION	JSC	10/ 12:21	07:00 AM	08:00 AM	12:00
168	SSRMS GRAPPLE & UNBERTHS JLE FROM JEF		10/ 13:05	07:44 AM	08:44 AM	12:44
169	SSRMS HANDOFF JLE TO SRMS		10/ 14:15	08:54 AM	09:54 AM	13:54
169	SRMS BERTHS JLE IN ENDEAVOUR'S PAYLOAD BAY		10/ 14:55	09:34 AM	10:34 AM	14:34

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
170	MISSION STATUS BRIEFING	JSC	10/ 17:21	12:00 PM	01:00 PM	17:00
173	JOINT CREW NEWS CONFERENCE	ISS Ku	10/ 20:25	03:04 PM	04:04 PM	20:04
173	EVA # 5 CREW PROCEDURE REVIEW		10/ 21:25	04:04 PM	05:04 PM	21:04
174	JOINT CREW NEWS CONFERENCE REPLAY WITH ENGLISH INTERPRETATION	JSC	10/ 22:21	05:00 PM	06:00 PM	22:00
175	EVA # 5 CAMPOUT BEGINS (Marshburn & Cassidy)		10/ 23:55	06:34 PM	07:34 PM	23:34
176	ISS CREW SLEEP BEGINS		11/ 01:00	07:39 PM	08:39 PM	00:39
176	ENDEAVOUR CREW SLEEP BEGINS		11/ 01:30	08:09 PM	09:09 PM	01:09
177	FLIGHT DAY 12 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	11/ 02:21	09:00 PM	10:00 PM	02:00

THURSDAY, JULY 23

FD 12 / FD 13

177	HIGH DEFINITION FLIGHT DAY 12 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	11/ 05:21	12:00 AM	01:00 AM	05:00
181	ISS FLIGHT DIRECTOR UPDATE	JSC	11/ 09:06	03:45 AM	04:45 AM	08:45
181	ENDEAVOUR / ISS CREW WAKE UP (begins FD 13)		11/ 09:30	04:09 AM	05:09 AM	09:09
182	EVA # 5 PREPARATIONS RESUME		11/ 10:15	04:54 AM	05:54 AM	09:54
182	VIDEO FILE	HQ	11/ 10:21	05:00 AM	06:00 AM	10:00
185	EVA # 5 BEGINS (Marshburn & Cassidy)		11/ 14:25	09:04 AM	10:04 AM	14:04
185	DEXTRE MLI RECONFIG / Z1 PATCH PANEL CABLE RECONFIG		11/ 14:55	09:34 AM	10:34 AM	14:34
186	S3 NADIR OUTBOARD PAS DEPLOY		11/ 15:55	10:34 AM	11:34 AM	15:34

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
187	S3 NADIR INBOARD PAS DEPLOY		11/ 17:25	12:04 PM	01:04 PM	17:04
187	CAMERA PORT ONE WETA INSTALLATION		11/ 18:40	01:19 PM	02:19 PM	18:19
189	EVA # 5 ENDS		11/ 20:55	03:34 PM	04:34 PM	20:34
189	EXPEDITION 21- 22 / SPACEFIGHT PARTICIPANT CREW NEWS CONFERENCE	JSC	11/ 21:51	04:30 PM	05:30 PM	21:30
191	ISS CREW SLEEP BEGINS		12/ 00:30	07:09 PM	08:09 PM	00:09
191	MISSION STATUS BRIEFING	JSC	12/ 00:51	07:30 PM	08:30 PM	00:30
192	ENDEAVOUR CREW SLEEP BEGINS		12/ 01:00	07:39 PM	08:39 PM	00:39
192	FLIGHT DAY 13 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	12/ 01:21	08:00 PM	09:00 PM	01:00
193	HIGH DEFINITION FLIGHT DAY 13 CREW HIGHLIGHTS (if available; on the NASA-TV HDTV Channel; replays at 3:00am CT and 4:00am CT)	JSC	12/ 04:21	11:00 PM	12:00 AM	04:00
FRIDAY, JULY 24						
FD 13 / FD 14						
197	ENDEAVOUR / ISS CREW WAKE UP (begins FD 14)		12/ 09:00	03:39 AM	04:39 AM	08:39
197	ISS FLIGHT DIRECTOR UPDATE	JSC	12/ 09:21	04:00 AM	05:00 AM	09:00
198	VIDEO FILE	HQ	12/ 10:21	05:00 AM	06:00 AM	10:00
199	SSRMS GRAPPLE & UNBERTH OBSS FROM ENDEAVOUR		12/ 11:45	06:24 AM	07:24 AM	11:24
200	SSRMS HANDOFF OBSS TO SRMS		12/ 13:20	07:59 AM	08:59 AM	12:59
200	RENDEZVOUS TOOL CHECKOUT		12/ 13:35	08:14 AM	09:14 AM	13:14
202	U.S. CREW CHOICE EVENT	ISS Ku	12/ 17:25	12:04 PM	01:04 PM	17:04

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
202	MISSION STATUS BRIEFING	JSC	12/ 17:51	12:30 PM	01:30 PM	17:30
203	FAREWELL AND HATCH CLOSURE		12/ 19:10	01:49 PM	02:49 PM	18:49
204	ODS HATCH LEAK CHECK		12/ 19:55	02:34 PM	03:34 PM	19:34
204	CENTERLINE CAMERA INSTALLATION		12/ 20:30	03:09 PM	04:09 PM	20:09
206	ISS CREW SLEEP BEGINS		12/ 23:30	06:09 PM	07:09 PM	23:09
207	ENDEAVOUR CREW SLEEP BEGINS		13/ 00:00	06:39 PM	07:39 PM	23:39
207	FLIGHT DAY 14 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	13/ 00:21	07:00 PM	08:00 PM	00:00
209	HIGH DEFINITION FLIGHT DAY 14 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replays at 2:00am CT and 3:00am CT)	JSC	13/ 03:21	10:00 PM	11:00 PM	03:00

SATURDAY, JULY 25

FD 14 / FD 15

212	ENDEAVOUR / ISS CREW WAKE UP (begins FD 15)		13/ 08:00	02:39 AM	03:39 AM	07:39
214	ENDEAVOUR UNDOCKS FROM ISS		13/ 11:58	06:37 AM	07:37 AM	11:37
215	ENDEAVOUR FLYAROUND BEGINS		13/ 12:23	07:02 AM	08:02 AM	12:02
216	ENDEAVOUR FINAL SEPARATION FROM ISS		13/ 13:41	08:20 AM	09:20 AM	13:20
217	RMS / OBSS LATE INSPECTION OF ENDEAVOUR'S TPS BEGINS		13/ 16:15	10:54 AM	11:54 AM	15:54
218	MISSION STATUS BRIEFING	JSC	13/ 17:21	12:00 PM	01:00 PM	17:00
219	VTR PLAYBACK OF UNDOCKING		13/ 19:00	01:39 PM	02:39 PM	18:39
220	OBSS BERTH IN ENDEAVOUR'S PAYLOAD BAY		13/ 20:30	03:09 PM	04:09 PM	20:09

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
222	ENDEAVOUR CREW SLEEP BEGINS		14/ 00:00	06:39 PM	07:39 PM	23:39
223	FLIGHT DAY 15 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	14/ 00:21	07:00 PM	08:00 PM	00:00
225	HIGH DEFINITION FLIGHT DAY 15 CREW HIGHLIGHTS (on the NASA-TV HDTV Channel; replays at 2:00am CT and 3:00am CT)	JSC	14/ 03:21	10:00 PM	11:00 PM	03:00
SUNDAY, JULY 26						
FD 15 / FD 16						
228	ENDEAVOUR CREW WAKE UP (begins FD 16)		14/ 08:00	02:39 AM	03:39 AM	07:39
230	FCS CHECKOUT		14/ 11:10	05:49 AM	06:49 AM	10:49
230	CABIN STOWAGE BEGINS		14/ 11:25	06:04 AM	07:04 AM	11:04
231	RCS HOT-FIRE TEST		14/ 12:20	06:59 AM	07:59 AM	11:59
232	DRAGONSAT DEPLOYMENT		14/ 14:15	08:54 AM	09:54 AM	13:54
232	ANDE-2 DEPLOYMENT		14/ 14:37	09:16 AM	10:16 AM	14:16
233	U.S. PAO EVENT	TDRE	14/ 16:35	11:14 AM	12:14 PM	16:14
234	CREW DEORBIT PREPARATION BRIEFING		14/ 16:55	11:34 AM	12:34 PM	16:34
234	MISSION STATUS BRIEFING	JSC	14/ 17:51	12:30 PM	01:30 PM	17:30
235	WAKATA'S RECUMBENT SEAT SET UP		14/ 19:50	02:29 PM	03:29 PM	19:29
235	POST-MMT BRIEFING	JSC	14/ 19:51	02:30 PM	03:30 PM	19:30
236	KU-BAND ANTENNA STOWAGE		14/ 20:55	03:34 PM	04:34 PM	20:34
238	ENDEAVOUR CREW SLEEP BEGINS		15/ 00:00	06:39 PM	07:39 PM	23:39
238	FLIGHT DAY 16 HIGHLIGHTS (replayed on the hour during crew sleep)	JSC	15/ 00:21	07:00 PM	08:00 PM	00:00

<u>ORBIT</u>	<u>SUBJECT</u>	<u>SITE</u>	<u>MET</u>	<u>CDT</u>	<u>EDT</u>	<u>GMT</u>
MONDAY, JULY 27						
FD 16 / FD 17						
243	ENDEAVOUR CREW WAKE UP (begins FD 17)		15/ 08:00	02:39 AM	03:39 AM	07:39
245	DEORBIT PREPARATIONS BEGIN		15/ 11:35	06:14 AM	07:14 AM	11:14
246	PAYLOAD BAY DOOR CLOSING		15/ 12:58	07:37 AM	08:37 AM	12:37
248	DEORBIT BURN		15/ 15:38	10:17 AM	11:17 AM	15:17
248	MILA C-BAND RADAR ACQUISITION OF ENDEAVOUR		15/ 16:27	11:06 AM	12:06 PM	16:06
248	KSC LANDING	KSC	15/ 16:40	11:19 AM	12:19 PM	16:19
	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		

<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					
S1:	Starboard One Truss Segment					
S3:	Starboard Three Truss Segment					
S5:	Starboard Five 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					