

STS-117/ISS-13A			SpaceCalc Shuttle Mission Planner				
Eastern Time	DD	HH	MM	Updated: 06/10/07 (through FD-4)			
Flight Day 1							
06/08/07	Fri	07:38	PM	00	00	00	STS-117 Launch
06/08/07	Fri	08:16	PM	00	00	38	OMS-2 rocket firing
06/08/07	Fri	08:28	PM	00	00	50	Post-insertion timeline begins
06/08/07	Fri	10:08	PM	00	02	30	PGSC, TV setup
06/08/07	Fri	10:08	PM	00	02	30	GIRA installation
06/08/07	Fri	10:18	PM	00	02	40	Robot arm (RMS) powerup
06/08/07	Fri	10:33	PM	00	02	55	RMS checkout
06/08/07	Fri	11:08	PM	00	03	30	SEE setup
06/08/07	Fri	11:18	PM	00	03	40	RMS payload bay survey
06/08/07	Fri	11:38	PM	00	04	00	RMS powerdown
06/08/07	Fri	11:38	PM	00	04	00	ET umbilical camera downlink
06/08/07	Fri	11:38	PM	00	04	00	Group B computer powerdown
06/08/07	Fri	11:58	PM	00	04	20	WLES setup
06/08/07	Fri	11:58	PM	00	04	20	ET handheld video downlink
06/09/07	Sat	12:23	AM	00	04	45	TPS imagery downlink
06/09/07	Sat	01:38	AM	00	06	00	Crew sleep begins
Flight Day 2 (updated 06/09/07)							
06/09/07	Sat	10:08	AM	00	14	30	Crew wakeup
06/09/07	Sat	12:43	PM	00	17	05	NC-2 rendezvous rocket firing
06/09/07	Sat	12:43	PM	00	17	05	Spacesuit checkout preps
06/09/07	Sat	12:48	PM	00	17	10	RMS powerup
06/09/07	Sat	01:03	PM	00	17	25	OBSS unberth
06/09/07	Sat	01:13	PM	00	17	35	Spacesuit checkout

06/09/07	Sat	02:03 PM	00	18	25	OBSS surveys starboard wing
06/09/07	Sat	02:58 PM	00	19	20	Spacesuit transfer preps
06/09/07	Sat	03:33 PM	00	19	55	OBSS surveys nose cap
06/09/07	Sat	04:23 PM	00	20	45	Crew meals begin
06/09/07	Sat	05:23 PM	00	21	45	OBSS surveys port wing
06/09/07	Sat	06:38 PM	00	23	00	Ergometer setup
06/09/07	Sat	06:53 PM	00	23	15	OBSS berthing
06/09/07	Sat	07:08 PM	00	23	30	Centerline camera installation
06/09/07	Sat	07:38 PM	01	00	00	FCMS operations
06/09/07	Sat	07:38 PM	01	00	00	Orbiter docking system ring extension
06/09/07	Sat	08:03 PM	01	00	25	LDRI downlink
06/09/07	Sat	08:33 PM	01	00	55	Wing leading edge sensor system downlink
06/09/07	Sat	08:43 PM	01	01	05	Rendezvous tools checkout
06/09/07	Sat	09:15 PM	01	01	37	NC-3 rendezvous rocket firing
06/09/07	Sat	10:08 PM	01	02	30	LDRI downlink
06/10/07	Sun	01:08 AM	01	05	30	Crew sleep begins
Flight Day 3 (updated 06/10/07)						
06/10/07	Sun	09:08 AM	01	13	30	STS/ISS crew wakeup
06/10/07	Sun	10:23 AM	01	14	45	Group B computer powerup
06/10/07	Sun	10:38 AM	01	15	00	Rendezvous timeline begins
06/10/07	Sun	11:28 AM	01	15	50	NC-4 rendezvous rocket firing
06/10/07	Sun	12:38 PM	01	16	60	Middeck prepped for docking
06/10/07	Sun	12:48 PM	01	17	10	Spacesuit removal
06/10/07	Sun	12:59 PM	01	17	21	TI burn
06/10/07	Sun	02:03 PM	01	18	25	Orbit 29 sunrise (approximate)
06/10/07	Sun	02:18 PM	01	18	40	Approach timeline begins
06/10/07	Sun	02:38 PM	01	19	00	Rendezvous pitch maneuver
06/10/07	Sun	03:08 PM	01	19	30	Orbit 30 sunset (approximate)
06/10/07	Sun	03:34 PM	01	19	56	Orbit 30 sunrise (approximate)
06/10/07	Sun	03:39 PM	01	20	01	DOCKING

06/10/07	Sun	04:03 PM	01	20	25	Hard mate
06/10/07	Sun	04:03 PM	01	20	25	Leak checks; PGSC reconfig
06/10/07	Sun	04:33 PM	01	20	55	Docking system prepped for entry
06/10/07	Sun	04:43 PM	01	21	05	Group B computer powerdown
06/10/07	Sun	04:58 PM	01	21	20	Post-docking PGSC reconfig
06/10/07	Sun	05:03 PM	01	21	25	Hatches open
06/10/07	Sun	05:18 PM	01	21	40	SRMS grapples S3/S4
06/10/07	Sun	05:33 PM	01	21	55	Welcome ceremony
06/10/07	Sun	05:38 PM	01	22	00	Safety briefing
06/10/07	Sun	06:03 PM	01	22	25	S3/S4 unberthing
06/10/07	Sun	06:03 PM	01	22	25	Anderson seatliner transfer
06/10/07	Sun	07:13 PM	01	23	35	REBA checkout
06/10/07	Sun	07:23 PM	01	23	45	S3/S4 handoff
06/10/07	Sun	07:28 PM	01	23	50	Equipment lock preps
06/10/07	Sun	08:43 PM	02	01	05	SRMS ungrapples S3/S4
06/10/07	Sun	09:03 PM	02	01	25	SRMS moves positioned for S3/S4 attach viewing
06/10/07	Sun	09:18 PM	02	01	40	EVA-1: Procedures review
06/10/07	Sun	11:23 PM	02	03	45	EVA-1: EV1/EV2 mask prebreathe
06/11/07	Mon	12:18 AM	02	04	40	EVA-1: Crew lock depress to 10.2 psi
06/11/07	Mon	12:38 AM	02	05	00	ISS crew sleep begins
06/11/07	Mon	01:08 AM	02	05	30	STS crew sleep begins
Flight Day 4 (Updated 06/10/07)						
06/11/07	Mon	09:08 AM	02	13	30	STS crew wakeup
06/11/07	Mon	09:38 AM	02	14	00	EV1/EV2 wakeup
06/11/07	Mon	10:13 AM	02	14	35	MCC: S3 activation begins
06/11/07	Mon	10:18 AM	02	14	40	EVA-1: 14.7 psi repress
06/11/07	Mon	10:33 AM	02	14	55	EVA-1: Hygiene break
06/11/07	Mon	11:08 AM	02	15	30	EVA-1: Crew lock depress to 10.2 psi
06/11/07	Mon	11:08 AM	02	15	30	SSRMS S3/S4 install
06/11/07	Mon	11:48 AM	02	16	10	EVA-1: Campout EVA preps

06/11/07	Mon	12:53 PM	02	17	15	S3/S4 maneuver to ready to latch position
06/11/07	Mon	01:18 PM	02	17	40	EVA-1: Spacesuit purge
06/11/07	Mon	01:33 PM	02	17	55	EVA-1: Spacesuit prebreathe
06/11/07	Mon	01:43 PM	02	18	05	S1-S3 SSAS bolting
06/11/07	Mon	02:23 PM	02	18	45	SSRMS ungrapples S3/S4
06/11/07	Mon	02:23 PM	02	18	45	EVA-1: Crew lock depressurization
06/11/07	Mon	02:38 PM	02	19	00	SSRMS to park position for EVA-1
06/11/07	Mon	02:58 PM	02	19	20	EVA-1: Airlock egress
06/11/07	Mon	03:18 PM	02	19	40	SSRMS support
06/11/07	Mon	03:18 PM	02	19	40	EVA-1: EV1: S1-S3 nadir utilities
06/11/07	Mon	03:38 PM	02	20	00	EVA-1: EV2: Release aft-fwd SABB restraints
06/11/07	Mon	03:48 PM	02	20	10	EVA-1: EV1: S3 MDM shroud removal
06/11/07	Mon	04:13 PM	02	20	35	ISS: Sokol suit pressure checks
06/11/07	Mon	04:23 PM	02	20	45	EVA-1: EV1: S1-S3 zenith utilities
06/11/07	Mon	04:53 PM	02	21	15	EVA-1: EV1: Keel pin rotate
06/11/07	Mon	05:23 PM	02	21	45	EVA-1: EV1: Release 1A-3A SABGA restraint
06/11/07	Mon	05:38 PM	02	22	00	EVA-1: EV2: Release PVR cinch/winch
06/11/07	Mon	06:03 PM	02	22	25	EVA-1: EV1: Unstow forward SABB
06/11/07	Mon	06:08 PM	02	22	30	EVA-1: EV2: Unstow aft SABB
06/11/07	Mon	06:23 PM	02	22	45	EVA-1: EV1: Install SARJ DLA 2
06/11/07	Mon	06:28 PM	02	22	50	EVA-1: EV2: Remove MLI
06/11/07	Mon	06:58 PM	02	23	20	EVA-1: EV2: Rigidize AJIS struts (4)
06/11/07	Mon	07:23 PM	02	23	45	EVA-1: EV1: SARJ launch locks
06/11/07	Mon	07:23 PM	02	23	45	Photo-voltaic radiator deploy
06/11/07	Mon	07:38 PM	03	00	00	EVA-1: EV2: SARJ launch locks
06/11/07	Mon	08:38 PM	03	01	00	EVA-1: Cleanup and ingress
06/11/07	Mon	09:23 PM	03	01	45	EVA-1: Airlock repressurization
06/11/07	Mon	09:38 PM	03	02	00	Spacesuit servicing
06/12/07	Tue	01:08 AM	03	05	30	ISS crew sleep begins
06/12/07	Tue	01:08 AM	03	05	30	STS crew sleep begins
06/12/07	Tue	04:23 AM	03	08	45	MCC: S4-1A mast deploy (1 bay)
06/12/07	Tue	07:33 AM	03	11	55	MCC: S4-3A mast deploy (1 bay)

Flight Day 5 (FD-5 through EOM reflect pre-launch data)						
06/12/07	Tue	09:08 AM	03	13	30	STS/ISS crew wakeup
06/12/07	Tue	10:38 AM	03	15	00	SSRMS maneuver
06/12/07	Tue	11:43 AM	03	16	05	1A mast deploy to 49 percent
06/12/07	Tue	12:23 PM	03	16	45	1A mast deploy to 100 percent
06/12/07	Tue	01:13 PM	03	17	35	3A mast deploy to 49 percent
06/12/07	Tue	01:23 PM	03	17	45	Spacesuit swap
06/12/07	Tue	01:53 PM	03	18	15	3A mast deploy to 100 percent
06/12/07	Tue	02:33 PM	03	18	55	Joint crew meal
06/12/07	Tue	03:33 PM	03	19	55	Crew off duty time
06/12/07	Tue	05:33 PM	03	21	55	SRMS moves to retraction viewing point
06/12/07	Tue	05:58 PM	03	22	20	EVA-2: Tools configured
06/12/07	Tue	06:03 PM	03	22	25	SSRMS WS-2 config translation
06/12/07	Tue	07:03 PM	03	23	25	Equipment lock preps
06/12/07	Tue	09:03 PM	04	01	25	EVA-2: Procedures review
06/12/07	Tue	10:03 PM	04	02	25	PAO event
06/12/07	Tue	10:48 PM	04	03	10	MT translates from WS-2 to WS-3
06/12/07	Tue	11:23 PM	04	03	45	EVA-2: Mask prebreathe and tool config
06/13/07	Wed	12:18 AM	04	04	40	EVA-2: Crew lock to 10.2 psi
06/13/07	Wed	12:38 AM	04	05	00	ISS crew sleep begins
06/13/07	Wed	01:08 AM	04	05	30	STS crew sleep begins
Flight Day 6						
06/13/07	Wed	07:48 AM	04	12	10	MCC: P6-2B retracted 1/2 bay
06/13/07	Wed	09:08 AM	04	13	30	STS/ISS crew wakeup
06/13/07	Wed	09:48 AM	04	14	10	EVA-2: Crew lock repress to 14.7 psi
06/13/07	Wed	10:03 AM	04	14	25	EVA-2: Hygiene break
06/13/07	Wed	10:38 AM	04	15	00	EVA-2: Crew lock depress to 10.2 psi
06/13/07	Wed	10:58 AM	04	15	20	EVA-2: Campout EVA preps

06/13/07	Wed	11:23 AM	04	15	45	SSRMS set for retraction viewing
06/13/07	Wed	12:03 PM	04	16	25	P6-2B retraction operations
06/13/07	Wed	12:28 PM	04	16	50	EVA-2: Spacesuit purge
06/13/07	Wed	12:43 PM	04	17	05	EVA-2: Spacesuit prebreathe
06/13/07	Wed	12:58 PM	04	17	20	SSRMS maneuver
06/13/07	Wed	01:33 PM	04	17	55	EVA-2: Crew lock depressurization
06/13/07	Wed	02:08 PM	04	18	30	EVA-2: Airlock egress
06/13/07	Wed	02:48 PM	04	19	10	EVA-2: P6-2B retraction
06/13/07	Wed	03:33 PM	04	19	55	EVA-2: Deploy SARJ BR
06/13/07	Wed	04:03 PM	04	20	25	EVA-2: EV3: Install SARJ DLA 1
06/13/07	Wed	04:03 PM	04	20	25	EVA-2: EV4: SARJ locks
06/13/07	Wed	05:03 PM	04	21	25	EVA-2: EV3: SARJ locks
06/13/07	Wed	07:58 PM	05	00	20	EVA-2: Cleanup and ingress
06/13/07	Wed	08:33 PM	05	00	55	EVA-2: Airlock repressurization
06/13/07	Wed	08:48 PM	05	01	10	Spacesuit servicing
06/14/07	Thu	12:08 AM	05	04	30	ISS crew sleep begins
06/14/07	Thu	12:38 AM	05	05	00	STS crew sleep begins
Flight Day 7						
06/14/07	Thu	08:38 AM	05	13	00	STS/ISS crew wakeup
06/14/07	Thu	11:38 AM	05	16	00	SSRMS maneuvers to P6-2B retraction viewing
06/14/07	Thu	11:38 AM	05	16	00	P6-2B retraction window opens
06/14/07	Thu	03:03 PM	05	19	25	P6-2B retraction window closes
06/14/07	Thu	03:03 PM	05	19	25	Post-EVA tool reconfig
06/14/07	Thu	03:03 PM	05	19	25	Crew meals begin
06/14/07	Thu	04:03 PM	05	20	25	Spacesuit swap
06/14/07	Thu	04:53 PM	05	21	15	Equipment lock preps
06/14/07	Thu	05:43 PM	05	22	05	EVA-3: Tools configured
06/14/07	Thu	07:18 PM	05	23	40	O2 system reconfig
06/14/07	Thu	08:23 PM	06	00	45	EVA-3: Procedures review
06/14/07	Thu	09:23 PM	06	01	45	PAO event

06/14/07	Thu	10:53 PM	06	03	15	EVA-3: Mack prebreathe and tool config
06/14/07	Thu	11:48 PM	06	04	10	EVA-3: 10.2 depress
06/15/07	Fri	12:08 AM	06	04	30	ISS crew sleep begins
06/15/07	Fri	12:38 AM	06	05	00	STS crew sleep begins
Flight Day 8						
06/15/07	Fri	08:38 AM	06	13	00	STS/ISS crew wakeup
06/15/07	Fri	09:18 AM	06	13	40	EVA-3: Hygiene break
06/15/07	Fri	09:48 AM	06	14	10	EVA-3: Airlock repress
06/15/07	Fri	10:28 AM	06	14	50	EVA-3: Campout EVA prep
06/15/07	Fri	10:38 AM	06	15	00	EVA-3; Airlock depress to 10.2 psi
06/15/07	Fri	11:58 AM	06	16	20	EVA-3: Spacesuit purge
06/15/07	Fri	12:13 PM	06	16	35	EVA-3: Spacesuit prebreathe
06/15/07	Fri	01:03 PM	06	17	25	EVA-3: Crew lock depressurization
06/15/07	Fri	01:08 PM	06	17	30	SSRMS EVA-3 maneuver
06/15/07	Fri	01:38 PM	06	18	00	EVA-3: Airlock egress
06/15/07	Fri	01:48 PM	06	18	10	EVA-3: Containment inspection
06/15/07	Fri	02:48 PM	06	19	10	EVA-3: EV1: H2O/H2 vent valve R&R
06/15/07	Fri	02:48 PM	06	19	10	EVA-3: EV2: EWIS antenna installation
06/15/07	Fri	04:18 PM	06	20	40	EVA-3: Stow S3 drag link
06/15/07	Fri	05:18 PM	06	21	40	EVA-3: EV1: MMOD shield bolt release
06/15/07	Fri	05:18 PM	06	21	40	EVA-3: EV2: APFR relocation
06/15/07	Fri	05:48 PM	06	22	10	EVA-3: Node/Service Module LAN cable routing
06/15/07	Fri	06:33 PM	06	22	55	EVA-3: 13A.1 get aheads
06/15/07	Fri	07:23 PM	06	23	45	EVA-3: Cleanup and airlock ingress
06/15/07	Fri	07:53 PM	07	00	15	Work site three configuration
06/15/07	Fri	08:03 PM	07	00	25	EVA-3: Airlock repressurization
06/15/07	Fri	08:18 PM	07	00	40	Spacesuit servicing
06/15/07	Fri	08:48 PM	07	01	10	SRMS powerdown
06/15/07	Fri	11:38 PM	07	04	00	ISS crew sleep begins

06/16/07	Sat	12:03 AM	07	04	25	MT moves from WS-3 to WS-5
06/16/07	Sat	12:08 AM	07	04	30	STS crew sleep begins
Flight Day 9						
06/16/07	Sat	08:08 AM	07	12	30	STS/ISS crew wakeup
06/16/07	Sat	10:28 AM	07	14	50	SSRMS walks off MBS to lab
06/16/07	Sat	11:08 AM	07	15	30	Crew off duty time
06/16/07	Sat	02:58 PM	07	19	20	MT moves from WS-5 to WS-1
06/16/07	Sat	03:08 PM	07	19	30	Joint crew meal
06/16/07	Sat	04:23 PM	07	20	45	Post-EVA transfer and reconfig
06/16/07	Sat	05:23 PM	07	21	45	O2 system teardown
06/16/07	Sat	06:23 PM	07	22	45	Joint crew news conference
06/16/07	Sat	07:03 PM	07	23	25	Joint crew photo
06/16/07	Sat	07:23 PM	07	23	45	Farewell ceremony
06/16/07	Sat	07:38 PM	08	00	00	Egress and hatch closure
06/16/07	Sat	08:18 PM	08	00	40	Leak checks
06/16/07	Sat	08:38 PM	08	01	00	Rendezvous tools checkout
06/16/07	Sat	11:08 PM	08	03	30	ISS crew sleep begins
06/16/07	Sat	11:38 PM	08	04	00	STS crew sleep begins
Flight Day 10						
06/17/07	Sun	07:38 AM	08	12	00	STS/ISS crew wakeup
06/17/07	Sun	09:48 AM	08	14	10	Group B computer powerup
06/17/07	Sun	10:18 AM	08	14	40	Centerline camera installation
06/17/07	Sun	10:48 AM	08	15	10	Undocking timeline begins
06/17/07	Sun	11:31 AM	08	15	53	UNDOCKING
06/17/07	Sun	12:46 PM	08	17	08	Separation burn No. 1
06/17/07	Sun	01:14 PM	08	17	36	Separation burn No. 2
06/17/07	Sun	01:18 PM	08	17	40	Group B computer powerdown
06/17/07	Sun	01:33 PM	08	17	55	SRMS powerup
06/17/07	Sun	01:48 PM	08	18	10	PMA-2 depressurization

06/17/07	Sun	01:48 PM	08	18	10	Crew meals begin
06/17/07	Sun	02:48 PM	08	19	10	OBDSS unberth
06/17/07	Sun	03:33 PM	08	19	55	Starboard wing survey
06/17/07	Sun	04:48 PM	08	21	10	Nose cap survey
06/17/07	Sun	05:38 PM	08	22	00	Port wing survey
06/17/07	Sun	06:53 PM	08	23	15	OBSS berthing
06/17/07	Sun	07:53 PM	09	00	15	SRMS powerdown
06/17/07	Sun	08:08 PM	09	00	30	NC-5 rocket firing
06/17/07	Sun	10:53 PM	09	03	15	STS crew sleep begins
06/17/07	Sun	11:08 PM	09	03	30	ISS crew sleep begins
Flight Day 11						
06/18/07	Mon	07:08 AM	09	11	30	STS crew wakeup
06/18/07	Mon	10:08 AM	09	14	30	Cabin stow
06/18/07	Mon	11:08 AM	09	15	30	Flight control system checkout
06/18/07	Mon	12:18 PM	09	16	40	Reaction control system hotfire
06/18/07	Mon	12:33 PM	09	16	55	PILOT landing practice
06/18/07	Mon	01:33 PM	09	17	55	Deorbit review
06/18/07	Mon	02:03 PM	09	18	25	Crew meal
06/18/07	Mon	03:03 PM	09	19	25	Cabin stow resumes
06/18/07	Mon	03:38 PM	09	20	00	L-1 comm check
06/18/07	Mon	03:58 PM	09	20	20	PAO event (all)
06/18/07	Mon	04:18 PM	09	20	40	Entry video setup
06/18/07	Mon	05:18 PM	09	21	40	Launch-entry suit checkout
06/18/07	Mon	06:18 PM	09	22	40	Recumbent seat setup
06/18/07	Mon	06:58 PM	09	23	20	Wing leading edge sensor system deact
06/18/07	Mon	06:58 PM	09	23	20	KU-band antenna stow
06/18/07	Mon	07:08 PM	09	23	30	Ergometer stow
06/18/07	Mon	07:18 PM	09	23	40	PGSC stow (part 1)
06/18/07	Mon	07:18 PM	09	23	40	SRMS powerdown
06/18/07	Mon	10:38 PM	10	03	00	STS crew sleep begins

Flight Day 12						
06/19/07	Tue	06:38 AM	10	11	00	Crew wakeup
06/19/07	Tue	08:43 AM	10	13	05	Group B powerup
06/19/07	Tue	08:58 AM	10	13	20	IMU alignment
06/19/07	Tue	09:23 AM	10	13	45	PGSC stow (part 2)
06/19/07	Tue	09:28 AM	10	13	50	GIRA stow, PGSC stow
06/19/07	Tue	09:43 AM	10	14	05	Deorbit prep timeline begins
06/19/07	Tue	01:42 PM	10	18	04	Deorbit ignition (orbit 171)
06/19/07	Tue	02:44 PM	10	19	06	KSC Landing
BACKUP LANDING OPPORTUNITIES						
TBD						
Compiled by William Harwood						