

STS-110/ISS 8A				SpaceCalc Shuttle Mission Planner			
Eastern Time				DD	HH	MM	STS-110 Master Flight Plan: Updated 04/18/02
E	S	04/08/02	Mon 04:44 PM	00	00	00	STS-110 launch
V	L	04/08/02	Mon 04:53 PM	00	00	09	Main engine cutoff
A	E	04/08/02	Mon 05:34 PM	00	00	50	OMS-2 rocket firing
	E	04/08/02	Mon 05:34 PM	00	00	50	Begin post-insertion timeline
	P	04/08/02	Mon 06:14 PM	00	01	30	Payload bay door opening
		04/08/02	Mon 07:14 PM	00	02	30	GIRA installation
		04/08/02	Mon 07:29 PM	00	02	45	SEE setup
		04/08/02	Mon 08:19 PM	00	03	35	NC1 rendezvous rocket firing
		04/08/02	Mon 08:24 PM	00	03	40	Group B computer powerdown
		04/08/02	Mon 09:44 PM	00	05	00	Crew sleep begins
MET 0/13:00 through 1/04:00 updated 04/09/02							
		04/09/02	Tue 05:44 AM	00	13	00	Crew wakeup
		04/09/02	Tue 08:44 AM	00	16	00	Ergometer setup
		04/09/02	Tue 09:04 AM	00	16	20	Ross exercises
		04/09/02	Tue 09:14 AM	00	16	30	Airlock prep
		04/09/02	Tue 09:14 AM	00	16	30	NC2 rendezvous rocket firing
		04/09/02	Tue 09:39 AM	00	16	55	RMS powerup
		04/09/02	Tue 09:44 AM	00	17	00	Spacesuit checkout
		04/09/02	Tue 09:54 AM	00	17	10	MAGR setup
		04/09/02	Tue 09:54 AM	00	17	10	Smith exercises
		04/09/02	Tue 09:54 AM	00	17	10	RMS checkout
		04/09/02	Tue 10:39 AM	00	17	55	RMS payload bay survey
		04/09/02	Tue 11:09 AM	00	18	25	RMS powerdown
		04/09/02	Tue 11:24 AM	00	18	40	Frick exercises
		04/09/02	Tue 11:29 AM	00	18	45	Contingency water container setup

04/09/02	Tue	11:44 AM	00	19	00	Media interview: Ochoa, Ross
04/09/02	Tue	12:44 PM	00	20	00	Crew meal
04/09/02	Tue	01:44 PM	00	21	00	Spacesuit jetpack (SAFER) checkout
04/09/02	Tue	01:44 PM	00	21	00	Spacesuit prepped for transfer to ISS
04/09/02	Tue	01:59 PM	00	21	15	Space vision system setup
04/09/02	Tue	02:04 PM	00	21	20	Orbiter docking system ring extension
04/09/02	Tue	02:29 PM	00	21	45	Space vision system checkout
04/09/02	Tue	02:29 PM	00	21	45	Ochoa exercises
04/09/02	Tue	02:59 PM	00	22	15	Spacewalk tool prep
04/09/02	Tue	03:09 PM	00	22	25	Walheim exercises
04/09/02	Tue	03:14 PM	00	22	30	Space vision system powerdown
04/09/02	Tue	03:29 PM	00	22	45	Rendezvous tools checkout
04/09/02	Tue	03:34 PM	00	22	50	Bloomfield exercises
04/09/02	Tue	04:09 PM	00	23	25	Spacesuit helmet cam checkout
04/09/02	Tue	04:14 PM	00	23	30	Morin exercises
04/09/02	Tue	04:57 PM	01	00	13	NC3 rendezvous rocket firing
04/09/02	Tue	08:44 PM	01	04	00	Crew sleep begins
MET 1/12:00 through 2/04:00 updated 04/10/02						
04/10/02	Wed	04:44 AM	01	12	00	Crew wakeup
04/10/02	Wed	06:14 AM	01	13	30	ISS: Daily planning conference
04/10/02	Wed	06:34 AM	01	13	50	Group B computer powerup
04/10/02	Wed	06:49 AM	01	14	05	Begin rendezvous timeline
04/10/02	Wed	06:54 AM	01	14	10	Smith exercises
04/10/02	Wed	07:24 AM	01	14	40	Ross exercises
04/10/02	Wed	07:29 AM	01	14	45	NH rendezvous rocket firing
04/10/02	Wed	07:49 AM	01	15	05	ISS: Walz exercises
04/10/02	Wed	07:54 AM	01	15	10	Morin exercises
04/10/02	Wed	07:54 AM	01	15	10	Spacesuit removal
04/10/02	Wed	08:14 AM	01	15	30	NC4 rendezvous rocket firing
04/10/02	Wed	08:14 AM	01	15	30	ISS: Bursch exercises
04/10/02	Wed	08:24 AM	01	15	40	Walheim exercises

04/10/02	Wed	09:14 AM	01	16	30	ISS: Onufrienko exercises
04/10/02	Wed	09:45 AM	01	17	01	Terminal initiation burn
04/10/02	Wed	10:24 AM	01	17	40	ISS: Crew meal
04/10/02	Wed	11:19 AM	01	18	35	Begin approach timeline
04/10/02	Wed	12:06 PM	01	19	22	ISS docking
04/10/02	Wed	12:24 PM	01	19	40	Hard dock confirmed
04/10/02	Wed	12:24 PM	01	19	40	PCS setup
04/10/02	Wed	12:29 PM	01	19	45	Hatch leak checks
04/10/02	Wed	12:44 PM	01	20	00	Group B powerdown
04/10/02	Wed	12:54 PM	01	20	10	Post rendezvous laptop computer reconfiguration
04/10/02	Wed	12:59 PM	01	20	15	ODS prepped for hatch opening
04/10/02	Wed	01:04 PM	01	20	20	ISS in hatch opening attitude
04/10/02	Wed	01:19 PM	01	20	35	Hatch opening
04/10/02	Wed	02:04 PM	01	21	20	Handshake and welcoming ceremony
04/10/02	Wed	02:14 PM	01	21	30	Safety briefing
04/10/02	Wed	02:29 PM	01	21	45	Spacesuit reconfiguration pre-EVA
04/10/02	Wed	02:29 PM	01	21	45	CGBA transfer
04/10/02	Wed	02:29 PM	01	21	45	Transfer operations begin
04/10/02	Wed	02:29 PM	01	21	45	ISS: Onufrienko exercises
04/10/02	Wed	02:39 PM	01	21	55	TV cable routing check
04/10/02	Wed	02:44 PM	01	22	00	Shuttle-ISS water transfers begin
04/10/02	Wed	02:59 PM	01	22	15	Bloomfield exercises
04/10/02	Wed	03:29 PM	01	22	45	Spacesuit transfer to airlock
04/10/02	Wed	03:29 PM	01	22	45	ISS: Walz exercises
04/10/02	Wed	03:39 PM	01	22	55	ISS robot arm survey
04/10/02	Wed	03:59 PM	01	23	15	Frick exercises
04/10/02	Wed	04:24 PM	01	23	40	Quest equipment lock prep
04/10/02	Wed	05:09 PM	02	00	25	Spacewalk tools prepped
04/10/02	Wed	05:14 PM	02	00	30	EVA camera setup
04/10/02	Wed	05:29 PM	02	00	45	Power tool checkout
04/10/02	Wed	05:44 PM	02	01	00	EVA-1: Procedures review
04/10/02	Wed	08:44 PM	02	04	00	STS crew sleep begins

MET 2/12:00 through 3/04:00 updated 4/11/02						
04/11/02	Thu	04:44 AM	02	12	00	Crew wakeup
04/11/02	Thu	05:34 AM	02	12	50	Space vision system powerup
04/11/02	Thu	05:39 AM	02	12	55	ISS: Daily planning conference
04/11/02	Thu	05:44 AM	02	13	00	SSRMS grapples S0 truss
04/11/02	Thu	05:59 AM	02	13	15	SSRMS unberths S0 truss
04/11/02	Thu	06:14 AM	02	13	30	EVA-1: Preparations begin
04/11/02	Thu	06:59 AM	02	14	15	SSRMS S0 installation begins
04/11/02	Thu	07:09 AM	02	14	25	EVA-1: 10.2 psi depressurization
04/11/02	Thu	07:14 AM	02	14	30	Morin exercises
04/11/02	Thu	07:44 AM	02	15	00	Onufrienko participates in a Russian-only PAO event
04/11/02	Thu	09:04 AM	02	16	20	EVA-1: Spacesuit purge begins
04/11/02	Thu	09:09 AM	02	16	25	EVA-1: Airlock repress to 14.7 psi
04/11/02	Thu	09:19 AM	02	16	35	EVA-1: Spacesuit prebreathe
04/11/02	Thu	09:39 AM	02	16	55	Lab cradle assembly claw engages S0 truss
04/11/02	Thu	09:44 AM	02	17	00	ISS: Onufrienko exercises
04/11/02	Thu	10:19 AM	02	17	35	EVA-1: Depress
04/11/02	Thu	10:29 AM	02	17	45	SSRMS ungrapples S0 truss
04/11/02	Thu	10:44 AM	02	18	00	SSRMS reconfigured for EVA support
04/11/02	Thu	11:04 AM	02	18	20	EVA-1: Egress and daily setup
04/11/02	Thu	11:49 AM	02	19	05	EVA-1: EV2 installs forward S0 bipod struts
04/11/02	Thu	01:09 PM	02	20	25	EVA-1: EV1 deploys aft tray
04/11/02	Thu	01:49 PM	02	21	05	EVA-1: EV2 installs starboard avionics
04/11/02	Thu	01:59 PM	02	21	15	EVA-1: EV1 assists with avionics install
04/11/02	Thu	02:19 PM	02	21	35	EVA-1: EV1 continues aft tray deploy
04/11/02	Thu	03:19 PM	02	22	35	EVA-1: EV1 configures circuit interrupt device No. 7
04/11/02	Thu	03:19 PM	02	22	35	EVA-1: EV2 Installs port avionics
04/11/02	Thu	03:39 PM	02	22	55	EVA-1: EV1 assists with avionics install
04/11/02	Thu	03:44 PM	02	23	00	SO activation
04/11/02	Thu	03:59 PM	02	23	15	EVA-1: EV1 configures circuit interrupt device No. 8
04/11/02	Thu	03:59 PM	02	23	15	ISS: Onufrienko exercises
04/11/02	Thu	04:19 PM	02	23	35	EVA-1: EV1 and 2 install TUS zenith cable

04/11/02	Thu	04:44 PM	03	00	00	SSMRS reconfigured
04/11/02	Thu	04:49 PM	03	00	05	EVA-1: Cleanup and airlock ingress
04/11/02	Thu	04:49 PM	03	00	05	Bloomfield exercises
04/11/02	Thu	05:14 PM	03	00	30	EVA-1: Airlock repressurization
04/11/02	Thu	05:59 PM	03	01	15	Frick exercises
04/11/02	Thu	06:34 PM	03	01	50	ISS: Daily planning conference
04/11/02	Thu	08:44 PM	03	04	00	STS/ISS crew sleep begins
MET 3/12:00 through 4/04:00 updated 4/12/02						
04/12/02	Fri	04:44 AM	03	12	00	STS crew wakeup
04/12/02	Fri	05:14 AM	03	12	30	ISS crew wakeup
04/12/02	Fri	06:54 AM	03	14	10	Morin exercises
04/12/02	Fri	06:59 AM	03	14	15	ISS: Daily planning conference
04/12/02	Fri	07:19 AM	03	14	35	Nitrogen gas transfer operations
04/12/02	Fri	07:24 AM	03	14	40	Ross exercises
04/12/02	Fri	07:24 AM	03	14	40	Transfer operations resume
04/12/02	Fri	07:49 AM	03	15	05	Oxygen gas transfer setup
04/12/02	Fri	07:49 AM	03	15	05	Oxygen gas transfer operations
04/12/02	Fri	07:54 AM	03	15	10	Frick exercises
04/12/02	Fri	08:19 AM	03	15	35	ISS: PAO event
04/12/02	Fri	08:24 AM	03	15	40	Protein crystal growth dewar transfer
04/12/02	Fri	08:24 AM	03	15	40	BPS transfer operation
04/12/02	Fri	08:24 AM	03	15	40	Smith exercises
04/12/02	Fri	08:39 AM	03	15	55	ISS: STES 7/10
04/12/02	Fri	08:39 AM	03	15	55	ISS: Walz exercises
04/12/02	Fri	09:09 AM	03	16	25	Bloomfield exercises
04/12/02	Fri	09:24 AM	03	16	40	Terminate oxygen transfer
04/12/02	Fri	09:39 AM	03	16	55	Ochoa exercises
04/12/02	Fri	09:39 AM	03	16	55	ISS: Bursch exercises
04/12/02	Fri	09:54 AM	03	17	10	ISS: Walz exercises
04/12/02	Fri	09:59 AM	03	17	15	Spacesuit swap
04/12/02	Fri	10:09 AM	03	17	25	Walheim exercises

04/12/02	Fri	10:29 AM	03	17	45	Spacewalk tools configured
04/12/02	Fri	10:29 AM	03	17	45	Onufrienko exercises
04/12/02	Fri	10:44 AM	03	18	00	Spacewalk camera setup
04/12/02	Fri	11:29 AM	03	18	45	Joint STS/ISS crew meal
04/12/02	Fri	12:29 PM	03	19	45	Joint STS/ISS media interviews
04/12/02	Fri	12:49 PM	03	20	05	Transfer operations resume
04/12/02	Fri	12:49 PM	03	20	05	Quest equipment lock prepped
04/12/02	Fri	01:34 PM	03	20	50	Oxygen gas transfer
04/12/02	Fri	01:44 PM	03	21	00	EVA-2: Procedures review
04/12/02	Fri	02:44 PM	03	22	00	EVA-3: Procedures review
04/12/02	Fri	03:44 PM	03	23	00	Crew off duty time begins
04/12/02	Fri	03:44 PM	03	23	00	ISS: Onufrienko exercises
04/12/02	Fri	06:29 PM	04	01	45	ISS: Daily planning conference
04/12/02	Fri	08:44 PM	04	04	00	STS/ISS crew sleep begins
MET 4/12:00 through 5/04:00 updated 04/13/02						
04/13/02	Sat	04:44 AM	04	12	00	STS/ISS crew wakeup
04/13/02	Sat	05:44 AM	04	13	00	EVA-2: Preparations begin
04/13/02	Sat	06:39 AM	04	13	55	EVA-2: 10.2 psi depressurization
04/13/02	Sat	06:44 AM	04	14	00	ISS: Daily planning conference
04/13/02	Sat	07:29 AM	04	14	45	ISS: Walz exercises
04/13/02	Sat	07:49 AM	04	15	05	Ochoa exercises
04/13/02	Sat	08:19 AM	04	15	35	Walheim exercises
04/13/02	Sat	08:34 AM	04	15	50	EVA-2: Spacesuit purge
04/13/02	Sat	08:39 AM	04	15	55	EVA-2: Airlock repressurized to 14.7 psi
04/13/02	Sat	08:49 AM	04	16	05	EVA-2: Spacesuit prebreathe
04/13/02	Sat	09:14 AM	04	16	30	ISS: Onufrienko exercises
04/13/02	Sat	09:29 AM	04	16	45	Bloomfield exercises
04/13/02	Sat	09:49 AM	04	17	05	EVA-2: Airlock depressurization begins
04/13/02	Sat	10:04 AM	04	17	20	ISS: Bursch/CEVIS
04/13/02	Sat	10:34 AM	04	17	50	EVA-2: Airlock egress and daily setup
04/13/02	Sat	11:04 AM	04	18	20	EVA-2: EV4 installs aft starboard strut attachments

04/13/02	Sat	11:04 AM	04	18	20	EVA-2: EV3 installs aft starboard MTS
04/13/02	Sat	01:04 PM	04	20	20	EVA-2: EV4 installs port strut attachments
04/13/02	Sat	01:04 PM	04	20	20	EVA-2: EV3 installs aft port MTS
04/13/02	Sat	01:24 PM	04	20	40	ISS: Onufrienko configures the ZCG autoclave
04/13/02	Sat	02:34 PM	04	21	50	EVA-2: Drag links (keel pin attachment fittings)
04/13/02	Sat	02:54 PM	04	22	10	EVA-2: Intall trailing umbilical 2 nadir
04/13/02	Sat	03:24 PM	04	22	40	EVA-2: Remove and stow S0 truss keel pins
04/13/02	Sat	03:34 PM	04	22	50	ISS: Onufrienko exercises
04/13/02	Sat	04:24 PM	04	23	40	EVA-2: Cleanup and airlock ingress
04/13/02	Sat	04:44 PM	05	00	00	ISS: Bursch exercises
04/13/02	Sat	04:54 PM	05	00	10	EVA-2: Airlock repressurization
04/13/02	Sat	04:54 PM	05	00	10	ISS: Walz/CEVIS
04/13/02	Sat	04:59 PM	05	00	15	Frick exercises
04/13/02	Sat	06:24 PM	05	01	40	Spacewalk tools prepped
04/13/02	Sat	06:34 PM	05	01	50	ISS: Daily planning conference
04/13/02	Sat	06:39 PM	05	01	55	Reboost operations
04/13/02	Sat	06:44 PM	05	02	00	Quest equipment lock prepped
04/13/02	Sat	08:44 PM	05	04	00	STS/ISS crew sleep begins
MET 5/12:00 through 6/04:00 updated 04/14/02						
04/14/02	Sun	04:44 AM	05	12	00	STS/ISS crew wakeup
04/14/02	Sun	05:09 AM	05	12	25	Spacewalk camera setup
04/14/02	Sun	05:44 AM	05	13	00	EVA-3: Preparations begin
04/14/02	Sun	06:39 AM	05	13	55	EVA-3: 10.2 depressurization
04/14/02	Sun	06:44 AM	05	14	00	ISS: Daily planning conference
04/14/02	Sun	08:19 AM	05	15	35	Shuttle robot arm powerup
04/14/02	Sun	08:34 AM	05	15	50	RMS positioned for egress
04/14/02	Sun	08:34 AM	05	15	50	EVA-3: Spacesuit purge
04/14/02	Sun	08:39 AM	05	15	55	EVA-3: Airlock repressurization to 14.7 psi
04/14/02	Sun	08:49 AM	05	16	05	EVA-3: Spacesuit prebreathe
04/14/02	Sun	09:14 AM	05	16	30	Morin exercises
04/14/02	Sun	09:29 AM	05	16	45	ISS: Onufrienko exercises

04/14/02	Sun	09:49 AM	05	17	05	EVA-3: Airlock depressurization begins
04/14/02	Sun	09:59 AM	05	17	15	ISS: Bursch exercises
04/14/02	Sun	10:34 AM	05	17	50	EVA-3: Egress and daily setup
04/14/02	Sun	10:59 AM	05	18	15	ISS: Crew meal
04/14/02	Sun	11:19 AM	05	18	35	EVA-3: EV2 configures LCA claw
04/14/02	Sun	11:19 AM	05	18	35	EVA-3: EV1 installs J300 connectors
04/14/02	Sun	11:39 AM	05	18	55	EVA-3: EV2 installs CID 8
04/14/02	Sun	12:19 PM	05	19	35	EVA-3: EV2 assists EV1
04/14/02	Sun	12:19 PM	05	19	35	Ross exercises
04/14/02	Sun	12:34 PM	05	19	50	EVA-3: Release MT latch restraint
04/14/02	Sun	01:19 PM	05	20	35	EVA-3: EV1 reconfigures J400 connector; EV2 assists
04/14/02	Sun	01:19 PM	05	20	35	ISS: Bursch exercises
04/14/02	Sun	01:59 PM	05	21	15	EVA-3: EV2 performs get-ahead tasks
04/14/02	Sun	02:29 PM	05	21	45	ISS: Onufrienko exercises
04/14/02	Sun	02:34 PM	05	21	50	EVA-3: EV2 assists EV1 with J400 connector
04/14/02	Sun	02:39 PM	05	21	55	ISS: Walz exercises
04/14/02	Sun	02:49 PM	05	22	05	EVA-3: Shuttle tool transfer
04/14/02	Sun	03:39 PM	05	22	55	EVA-3: Airlock spur installation
04/14/02	Sun	04:09 PM	05	23	25	EVA-3: Cleanup and airlock ingress
04/14/02	Sun	04:09 PM	05	23	25	ISS: Walz exercises
04/14/02	Sun	04:14 PM	05	23	30	Frick exercises
04/14/02	Sun	04:54 PM	06	00	10	EVA-3: Begin airlock repressurization
04/14/02	Sun	05:44 PM	06	01	00	Reboost operations
04/14/02	Sun	06:59 PM	06	02	15	ISS: Daily planning conference
04/14/02	Sun	08:44 PM	06	04	00	STS/ISS crew sleep begins
MET 6/12:00 through 7/04:00 updated 04/15/02						
04/15/02	Mon	04:44 AM	06	12	00	STS crew wakeup
04/15/02	Mon	05:14 AM	06	12	30	ISS crew wakeup
04/15/02	Mon	06:29 AM	06	13	45	Quest nitrogen top off
04/15/02	Mon	06:34 AM	06	13	50	Morin exercises
04/15/02	Mon	07:14 AM	06	14	30	ISS: Daily planning conference

04/15/02	Mon	07:29 AM	06	14	45	MT translate LS-WS4
04/15/02	Mon	07:49 AM	06	15	05	Spacewalk tools configured
04/15/02	Mon	07:49 AM	06	15	05	Ochoa exercises
04/15/02	Mon	08:19 AM	06	15	35	Transfer operations resume
04/15/02	Mon	08:29 AM	06	15	45	MT translate WS4-WS5
04/15/02	Mon	08:29 AM	06	15	45	AMPEV modification
04/15/02	Mon	08:59 AM	06	16	15	ISS: Onufrienko exercises
04/15/02	Mon	09:29 AM	06	16	45	MS translate WS5-WS4
04/15/02	Mon	09:39 AM	06	16	55	Spacewalk camera setup
04/15/02	Mon	10:09 AM	06	17	25	Spacesuit swap
04/15/02	Mon	10:29 AM	06	17	45	Joint crew meal
04/15/02	Mon	11:19 AM	06	18	35	EVA-4: Procedures review
04/15/02	Mon	12:19 PM	06	19	35	Crew photo
04/15/02	Mon	12:44 PM	06	20	00	Crew news conference
04/15/02	Mon	01:14 PM	06	20	30	RMS powerdown
04/15/02	Mon	01:14 PM	06	20	30	Walheim exercises
04/15/02	Mon	01:14 PM	06	20	30	Crew off duty time begins
04/15/02	Mon	01:14 PM	06	20	30	Quest equipment lock prepped
04/15/02	Mon	01:59 PM	06	21	15	ISS: Bursch exercises
04/15/02	Mon	01:59 PM	06	21	15	ISS: Onufrienko exercises
04/15/02	Mon	02:04 PM	06	21	20	Smith exercises
04/15/02	Mon	02:59 PM	06	22	15	ISS: Walz exercises
04/15/02	Mon	03:09 PM	06	22	25	Ross exercises
04/15/02	Mon	03:59 PM	06	23	15	Bloomfield exercises
04/15/02	Mon	04:44 PM	07	00	00	Frick exercises
04/15/02	Mon	05:54 PM	07	01	10	ISS: Daily planning conference
04/15/02	Mon	08:44 PM	07	04	00	STS/ISS crew sleep begins
MET 7/12:00 through 8/04:00 updated 04/16/02						
04/16/02	Tue	04:44 AM	07	12	00	STS/ISS crew wakeup
04/16/02	Tue	05:44 AM	07	13	00	EVA-4: Preparations begin
04/16/02	Tue	06:39 AM	07	13	55	EVA-4: 10.2 depressurization

04/16/02	Tue	06:44 AM	07	14	00	ISS: Daily planning conference
04/16/02	Tue	07:59 AM	07	15	15	ISS: Walz exercises
04/16/02	Tue	08:04 AM	07	15	20	Frick exercises
04/16/02	Tue	08:34 AM	07	15	50	EVA-4: Spacesuit purge
04/16/02	Tue	08:34 AM	07	15	50	Ochoa exercises
04/16/02	Tue	08:39 AM	07	15	55	EVA-4: Airlock repressurized to 14.7 psi
04/16/02	Tue	08:49 AM	07	16	05	EVA-4: Spacesuit prebreathe begins
04/16/02	Tue	09:04 AM	07	16	20	RMS powerup
04/16/02	Tue	09:29 AM	07	16	45	ISS: Walz exercises
04/16/02	Tue	09:44 AM	07	17	00	ISS: Onufrienko exercises
04/16/02	Tue	09:49 AM	07	17	05	EVA-4: Airlock depressurization begins
04/16/02	Tue	09:59 AM	07	17	15	Bloomfield exercises
04/16/02	Tue	10:34 AM	07	17	50	RMS maneuver
04/16/02	Tue	10:34 AM	07	17	50	EVA-4: Egress and daily setup
04/16/02	Tue	10:34 AM	07	17	50	EVA-4: EV3 (on SSRMS) checks starboard S0 ready to latch indication
04/16/02	Tue	10:34 AM	07	17	50	EVA-4: EV4 assists (free floater)
04/16/02	Tue	10:49 AM	07	18	05	SSRMS video support
04/16/02	Tue	11:49 AM	07	19	05	EVA-4: EV4 releases LCA guides; CIDs 7 & 8 ON; pip pin installation
04/16/02	Tue	11:49 AM	07	19	05	EVA-4: EV3 installed node EVA light
04/16/02	Tue	12:34 PM	07	19	50	EVA-4: Assemble portable work platform
04/16/02	Tue	12:54 PM	07	20	10	EVA-4: EV3 installs lab EVA lights
04/16/02	Tue	12:54 PM	07	20	10	EVA-4: EV4 deploys EV-CPDS; TUS-2 safing bolt
04/16/02	Tue	01:39 PM	07	20	55	EVA-4: EV3 installs energy absorber
04/16/02	Tue	02:39 PM	07	21	55	EVA-4: EV4 TGA DTO; photo survey
04/16/02	Tue	02:39 PM	07	21	55	EVA-4: EV3 installs S0 handrail; GPS MLI tiedown
04/16/02	Tue	02:54 PM	07	22	10	ISS: Bursch exercises
04/16/02	Tue	03:54 PM	07	23	10	EVA-4: Shuttle tool transfer
04/16/02	Tue	03:54 PM	07	23	10	ISS: Bursch exercises
04/16/02	Tue	04:09 PM	07	23	25	EVA-4: Clean up and airlock ingress; CIDs 7 & 8 to OFF
04/16/02	Tue	04:44 PM	08	00	00	RMS powerdown
04/16/02	Tue	04:54 PM	08	00	10	EVA-4: Airlock repressurization begins
04/16/02	Tue	05:09 PM	08	00	25	Shuttle repressurized at 14.7 psi
04/16/02	Tue	06:29 PM	08	01	45	ISS: Daily planning conference

04/16/02	Tue	08:14 PM	08	03	30	STS crew sleep begins
04/16/02	Tue	08:44 PM	08	04	00	ISS crew sleep begins
MET 8/11:30 through 9/04:00 updated 04/17/02						
04/17/02	Wed	04:14 AM	08	11	30	STS crew wakeup
04/17/02	Wed	05:14 AM	08	12	30	ISS crew wakeup
04/17/02	Wed	07:14 AM	08	14	30	ISS: Daily planning conference
04/17/02	Wed	07:19 AM	08	14	35	Rendezvous tools checkout
04/17/02	Wed	07:19 AM	08	14	35	Reboost operations
04/17/02	Wed	07:19 AM	08	14	35	Final transfer operations
04/17/02	Wed	07:29 AM	08	14	45	Oxygen transfer termination
04/17/02	Wed	07:59 AM	08	15	15	ISS: Bursch exercises
04/17/02	Wed	07:59 AM	08	15	15	Spacesuit reconfiguration
04/17/02	Wed	08:14 AM	08	15	30	Frick exercises
04/17/02	Wed	08:49 AM	08	16	05	Morin exercises
04/17/02	Wed	08:59 AM	08	16	15	ISS: Onufrienko exercises
04/17/02	Wed	09:19 AM	08	16	35	Ochoa exercises
04/17/02	Wed	09:29 AM	08	16	45	ISS: Walz exercises
04/17/02	Wed	10:29 AM	08	17	45	Final joint crew meal
04/17/02	Wed	11:29 AM	08	18	45	Farewell ceremony
04/17/02	Wed	11:49 AM	08	19	05	Hatches closed
04/17/02	Wed	12:14 PM	08	19	30	Walheim exercises
04/17/02	Wed	12:14 PM	08	19	30	Orbiter docking system leak check
04/17/02	Wed	12:44 PM	08	20	00	Bloomfield exercises
04/17/02	Wed	01:14 PM	08	20	30	Group B computer powerup
04/17/02	Wed	01:14 PM	08	20	30	Spacesuit installation
04/17/02	Wed	01:44 PM	08	21	00	Undocking timeline begins
04/17/02	Wed	01:54 PM	08	21	10	ISS: PMA-2 configured for undocking
04/17/02	Wed	02:31 PM	08	21	47	ISS undocking
04/17/02	Wed	02:34 PM	08	21	50	Flyaround begins
04/17/02	Wed	03:54 PM	08	23	10	Onufrienko exercises
04/17/02	Wed	03:59 PM	08	23	15	Ross exercises

04/17/02	Wed	04:19 PM	08	23	35	Flyaround ends; RMS powerdown
04/17/02	Wed	04:44 PM	09	00	00	Centerline camera removal
04/17/02	Wed	04:59 PM	09	00	15	Smith exercises
04/17/02	Wed	04:59 PM	09	00	15	Group B powerdown
04/17/02	Wed	07:29 PM	09	02	45	ISS crew sleep begins
04/17/02	Wed	07:44 PM	09	03	00	STS crew sleep begins
MET 9/11:00 through end of mission updated 4/18/02						
04/18/02	Thu	03:44 AM	09	11	00	STS crew wakeup
04/18/02	Thu	06:44 AM	09	14	00	Frick exercises
04/18/02	Thu	06:49 AM	09	14	05	GPS OPS 3 test
04/18/02	Thu	07:14 AM	09	14	30	Wallheim exercises
04/18/02	Thu	07:44 AM	09	15	00	Ross exercises
04/18/02	Thu	07:49 AM	09	15	05	Flight control system checkout
04/18/02	Thu	08:14 AM	09	15	30	Post EVA spacesuit entry prep
04/18/02	Thu	08:14 AM	09	15	30	Smith exercises
04/18/02	Thu	08:59 AM	09	16	15	Reaction control system hot fire test
04/18/02	Thu	09:14 AM	09	16	30	PILOT landing practice
04/18/02	Thu	10:14 AM	09	17	30	Crew media interviews
04/18/02	Thu	10:34 AM	09	17	50	Crew meal
04/18/02	Thu	11:34 AM	09	18	50	L-1 communications check
04/18/02	Thu	11:54 AM	09	19	10	Deorbit review
04/18/02	Thu	12:24 PM	09	19	40	Cabin stow begins
04/18/02	Thu	12:59 PM	09	20	15	SIMPLEX opportunity
04/18/02	Thu	01:24 PM	09	20	40	Morin exercises
04/18/02	Thu	01:39 PM	09	20	55	Orbit adjust burn
04/18/02	Thu	02:09 PM	09	21	25	Ochoa exercises
04/18/02	Thu	02:39 PM	09	21	55	Bloomfield exercises
04/18/02	Thu	03:44 PM	09	23	00	Ergometer stow
04/18/02	Thu	04:04 PM	09	23	20	KU-band antenna stow
04/18/02	Thu	07:14 PM	10	02	30	Crew sleep begins

04/19/02	Fri	03:14 AM	10	10	30	Crew wakeup
04/19/02	Fri	06:14 AM	10	13	30	GIRA stow; OCA deactivation
04/19/02	Fri	06:59 AM	10	14	15	Group B computer powerup
04/19/02	Fri	07:19 AM	10	14	35	Begin deorbit timeline
04/19/02	Fri	11:21 AM	10	18	37	Deorbit rocket firing
04/19/02	Fri	12:26 PM	10	19	42	Landing

Compiled by William Harwood