

STS-112/ISS-9A			SpaceCalc Shuttle Mission Planner			
Eastern Time			DD	HH	MM	STS-112 Master Flight Plan: Updated 10/17/02
E	S	10/07/02 Mon 03:46 PM	00	00	00	STS-112 launch
V	L	10/07/02 Mon 03:55 PM	00	00	09	Main engine cutoff
A	E	10/07/02 Mon 04:36 PM	00	00	50	OMS-2 burn to circularize orbit
	E	10/07/02 Mon 05:16 PM	00	01	30	Payload bay door opening
	P	10/07/02 Mon 06:16 PM	00	02	30	GIRA installation/SEE setup
		10/07/02 Mon 06:16 PM	00	02	30	PGSC setup
		10/07/02 Mon 07:01 PM	00	03	15	OCAC setup
		10/07/02 Mon 07:21 PM	00	03	35	NC1 rendezvous rocket firing
		10/07/02 Mon 07:26 PM	00	03	40	Group B computer powerdown
		10/07/02 Mon 09:46 PM	00	06	00	Crew sleep begins
Flight Day 2			MET 0/14:00 through 1/04:00 updated 10/08/2			
		10/08/02 Tue 05:46 AM	00	14	00	Crew wakeup
		10/08/02 Tue 07:46 AM	00	16	00	Middeck payload check
		10/08/02 Tue 08:40 AM	00	16	54	NC2 rendezvous rocket firing
		10/08/02 Tue 08:46 AM	00	17	00	EMU checkout prep
		10/08/02 Tue 09:16 AM	00	17	30	EMU checkout
		10/08/02 Tue 09:16 AM	00	17	30	Robot arm (RMS) powerup
		10/08/02 Tue 09:31 AM	00	17	45	RMS checkout
		10/08/02 Tue 10:16 AM	00	18	30	RMS payload bay survey
		10/08/02 Tue 10:46 AM	00	19	00	SAFER checkout
		10/08/02 Tue 10:46 AM	00	19	00	RMS powerdown
		10/08/02 Tue 11:01 AM	00	19	15	MAGR unstow and setup
		10/08/02 Tue 11:16 AM	00	19	30	EVA prep for transfer to ISS
		10/08/02 Tue 12:01 PM	00	20	15	Ergometer setup
		10/08/02 Tue 12:01 PM	00	20	15	OIU activation
		10/08/02 Tue 12:06 PM	00	20	20	NPC rendezvs rocket firing

10/08/02	Tue	12:31 PM	00	20	45	Crew meal
10/08/02	Tue	12:56 PM	00	21	10	SHIMMER installation
10/08/02	Tue	01:31 PM	00	21	45	OSVS powerup
10/08/02	Tue	01:31 PM	00	21	45	Sellers excrcises
10/08/02	Tue	01:46 PM	00	22	00	OSVS checkout
10/08/02	Tue	01:46 PM	00	22	00	SHIMMER checkout
10/08/02	Tue	01:56 PM	00	22	10	SHIMMER deactivation and stow
10/08/02	Tue	02:01 PM	00	22	15	Melroy exercises
10/08/02	Tue	02:26 PM	00	22	40	Wolf exercises
10/08/02	Tue	02:31 PM	00	22	45	OSVS powerdown
10/08/02	Tue	02:46 PM	00	23	00	Logistics transfer preps
10/08/02	Tue	03:26 PM	00	23	40	ODS ring extension
10/08/02	Tue	03:46 PM	01	00	00	Rendeavous tools checkout
10/08/02	Tue	03:46 PM	01	00	00	Yurchikhin exercises
10/08/02	Tue	04:01 PM	01	00	15	NC3 rendezvous rocket firing
10/08/02	Tue	04:01 PM	01	00	15	Magnus exercises
10/08/02	Tue	04:36 PM	01	00	50	Ashby exercises
10/08/02	Tue	07:46 PM	01	04	00	Crew sleep begins

Flight Day 3**MET 1/12:00 through 2/04:00 updated 10/09/02**

10/09/02	Wed	03:46 AM	01	12	00	STS crew wakeup
10/09/02	Wed	05:16 AM	01	13	30	ISS crew wakeup
10/09/02	Wed	05:51 AM	01	14	05	Group B computer powerup
10/09/02	Wed	06:01 AM	01	14	15	ISS rendezvous timeline begins
10/09/02	Wed	06:06 AM	01	14	20	Sellers exercises
10/09/02	Wed	06:36 AM	01	14	50	Wolf exercises
10/09/02	Wed	06:41 AM	01	14	55	ISS: Daily planning conference
10/09/02	Wed	06:46 AM	01	15	00	NH rendezvous rocket firing
10/09/02	Wed	07:06 AM	01	15	20	Yurchikhim exercises
10/09/02	Wed	07:06 AM	01	15	20	EMU removal
10/09/02	Wed	07:16 AM	01	15	30	ISS: Korzun exercises
10/09/02	Wed	07:31 AM	01	15	45	NC4 rendezvous rocket firing

10/09/02	Wed	07:36 AM	01	15	50	Magnus exercises
10/09/02	Wed	08:21 AM	01	16	35	ISS: Whitson exercises
10/09/02	Wed	09:04 AM	01	17	18	TI rendezvous rocket firing
10/09/02	Wed	10:01 AM	01	18	15	ISS: Crew meal
10/09/02	Wed	10:41 AM	01	18	55	Begin approach timeline
10/09/02	Wed	11:06 AM	01	19	20	ISS: Configures PMA-2 for docking
10/09/02	Wed	11:24 AM	01	19	38	DOCKING
10/09/02	Wed	11:51 AM	01	20	05	ISS: Whitson exercises
10/09/02	Wed	12:01 PM	01	20	15	Hatch leak checks
10/09/02	Wed	12:26 PM	01	20	40	Group B computer powerdown
10/09/02	Wed	12:31 PM	01	20	45	ODS prepped for ingress
10/09/02	Wed	12:41 PM	01	20	55	Melroy exercises
10/09/02	Wed	12:51 PM	01	21	05	Post-rendezvous PGSC config
10/09/02	Wed	12:51 PM	01	21	05	Hatch opening
10/09/02	Wed	01:36 PM	01	21	50	Handshake and welcome ceremony
10/09/02	Wed	01:41 PM	01	21	55	Safety briefing
10/09/02	Wed	02:06 PM	01	22	20	ISS: Treschev exercises
10/09/02	Wed	02:06 PM	01	22	20	EMU reconfig
10/09/02	Wed	02:36 PM	01	22	50	O2 P/B config
10/09/02	Wed	03:06 PM	01	23	20	REBA checkout
10/09/02	Wed	03:31 PM	01	23	45	EMU to airlock check
10/09/02	Wed	03:31 PM	01	23	45	EVA tools configured
10/09/02	Wed	03:46 PM	02	00	00	SSRMS S1 install tagup
10/09/02	Wed	04:01 PM	02	00	15	Soyuz suits/seatliner preps
10/09/02	Wed	04:11 PM	02	00	25	SSRMS moved to S1 pre-grapple position
10/09/02	Wed	04:41 PM	02	00	55	Joint EVA procedures review
10/09/02	Wed	05:31 PM	02	01	45	ISS daily planning conference
10/09/02	Wed	07:46 PM	02	04	00	STS/ISS crew sleep begins

Flight Day 4**MET 2/12/00 through 3/05:00 updated 10/10/02**

10/10/02	Thu	03:46 AM	02	12	00	STS crew wakeup
10/10/02	Thu	04:16 AM	02	12	30	ISS crew wakeup

10/10/02	Thu	05:46 AM	02	14	00	EVA camera setup
10/10/02	Thu	05:56 AM	02	14	10	EVA prep begins
10/10/02	Thu	06:01 AM	02	14	15	ISS daily planning conference
10/10/02	Thu	06:06 AM	02	14	20	OSVS powerup
10/10/02	Thu	06:31 AM	02	14	45	SSRMS grapples S1 truss
10/10/02	Thu	06:56 AM	02	15	10	Quest airlock depress to 10.2 psi
10/10/02	Thu	07:06 AM	02	15	20	S1 in low hover position
10/10/02	Thu	07:26 AM	02	15	40	S1 in high hover position
10/10/02	Thu	07:36 AM	02	15	50	S1 attachment begins
10/10/02	Thu	08:46 AM	02	17	00	EVA-1: Spacesuit purge begins
10/10/02	Thu	08:56 AM	02	17	10	Quest airlock repressurized to 14.7 psi
10/10/02	Thu	09:01 AM	02	17	15	EVA-1: Oxygen pre-breathe begins
10/10/02	Thu	09:06 AM	02	17	20	Whitson/SSRMS: 1st capture
10/10/02	Thu	09:31 AM	02	17	45	Whitson/SSRMS: 2nd capture
10/10/02	Thu	09:56 AM	02	18	10	S1 bolt loading
10/10/02	Thu	10:01 AM	02	18	15	EVA-1: Quest airlock depressurization begins
10/10/02	Thu	10:16 AM	02	18	30	OSVS powerdown
10/10/02	Thu	10:36 AM	02	18	50	SSRMS ungrapples S1
10/10/02	Thu	10:46 AM	02	19	00	EVA-1: Egress
10/10/02	Thu	10:56 AM	02	19	10	EVA-1: Sortie setup
10/10/02	Thu	10:56 AM	02	19	10	ISS: Korzun exercises
10/10/02	Thu	10:56 AM	02	19	10	ISS: Treschev exercises
10/10/02	Thu	11:41 AM	02	19	55	EVA-1: EV1 mates zenith tray
10/10/02	Thu	11:41 AM	02	19	55	EVA-1: EV2 radiator beam launch lock release
10/10/02	Thu	11:56 AM	02	20	10	ISS midday meal
10/10/02	Thu	12:31 PM	02	20	45	EVA-1: SASA deploy (EV1 and EV2)
10/10/02	Thu	01:36 PM	02	21	50	Yurchikhin exercises
10/10/02	Thu	01:46 PM	02	22	00	EVA-1: EV1 disconnects CETA cart locks
10/10/02	Thu	01:46 PM	02	22	00	EVA-1: EV2 radiator beam launch lock release
10/10/02	Thu	01:56 PM	02	22	10	Ashby exercises
10/10/02	Thu	02:16 PM	02	22	30	EVA-1: S1 nadir ETVCG installation (EV1 and EV2)
10/10/02	Thu	02:21 PM	02	22	35	ISS: Korzun exercises
10/10/02	Thu	03:46 PM	03	00	00	EVA-1: EV1 disconnects CETA cart launch locks

10/10/02	Thu	03:46 PM	03	00	00	EVA-1: EV2 mates S1 nadir tray
10/10/02	Thu	03:56 PM	03	00	10	ISS: Treschev exercises
10/10/02	Thu	04:21 PM	03	00	35	EVA-1: Clean up
10/10/02	Thu	04:21 PM	03	00	35	RMS powerdown
10/10/02	Thu	04:51 PM	03	01	05	Magnus exercises
10/10/02	Thu	04:51 PM	03	01	05	EVA-1: Airlock ingress
10/10/02	Thu	05:11 PM	03	01	25	EVA-1: Airlock repressurization
10/10/02	Thu	06:51 PM	03	03	05	ISS daily planning conference
10/10/02	Thu	08:46 PM	03	05	00	STS/ISS crew sleep begins
Flight Day 5			MET 3/13/00 through 4/04:00 updated 10/11/02			
10/11/02	Fri	04:46 AM	03	13	00	STS crew wakeup
10/11/02	Fri	05:16 AM	03	13	30	ISS crew wakeup
10/11/02	Fri	07:16 AM	03	15	30	ISS daily planning conference
10/11/02	Fri	07:31 AM	03	15	45	STS/ISS crew off duty time begins
10/11/02	Fri	08:06 AM	03	16	20	ISS: Korzun exercises
10/11/02	Fri	09:26 AM	03	17	40	ISS: Treschev exercises
10/11/02	Fri	09:46 AM	03	18	00	Melroy exercises
10/11/02	Fri	09:46 AM	03	18	00	N2 transfer
10/11/02	Fri	10:06 AM	03	18	20	Logistics transfers begin
10/11/02	Fri	10:46 AM	03	19	00	Joint STS/ISS crew meal
10/11/02	Fri	11:46 AM	03	20	00	PCG-STES transfer to ISS
10/11/02	Fri	11:46 AM	03	20	00	Tool configuration
10/11/02	Fri	12:01 PM	03	20	15	Ashby exercises
10/11/02	Fri	12:26 PM	03	20	40	Yurchikhin exercises
10/11/02	Fri	12:46 PM	03	21	00	Soyuz suits/seatliner preps
10/11/02	Fri	12:56 PM	03	21	10	Magnus exercises
10/11/02	Fri	12:56 PM	03	21	10	ISS: Whitson exercises
10/11/02	Fri	01:26 PM	03	21	40	Wolf exercises
10/11/02	Fri	01:26 PM	03	21	40	EVA camera setup
10/11/02	Fri	01:56 PM	03	22	10	Sellers exercises
10/11/02	Fri	01:56 PM	03	22	10	STEL SYS cross transfer

10/11/02	Fri	02:16 PM	03	22	30	ISS: Korzun exercises
10/11/02	Fri	02:56 PM	03	23	10	PAO event: MS1/MS2/MS3
10/11/02	Fri	03:46 PM	04	00	00	EVA-2: Procedures review
10/11/02	Fri	04:46 PM	04	01	00	ISS daily planning conference
10/11/02	Fri	05:01 PM	04	01	15	ISS crew off duty time
10/11/02	Fri	05:31 PM	04	01	45	Joint STS/ISS crew meal
10/11/02	Fri	07:46 PM	04	04	00	STS/ISS crew sleep begins
Flight Day 6			MET 4/12/00 through 5/05:00 updated 10/12/02			
10/12/02	Sat	03:46 AM	04	12	00	STS crew wakeup
10/12/02	Sat	04:16 AM	04	12	30	ISS crew wakeup
10/12/02	Sat	05:46 AM	04	14	00	ISS daily planning conference
10/12/02	Sat	05:56 AM	04	14	10	EVA prep begins
10/12/02	Sat	06:51 AM	04	15	05	Reboost config 3
10/12/02	Sat	07:01 AM	04	15	15	Quest airlock depress to 10.2 psi
10/12/02	Sat	07:46 AM	04	16	00	ISS: Treschev exercises
10/12/02	Sat	08:11 AM	04	16	25	ISS: Whitson exercises
10/12/02	Sat	08:16 AM	04	16	30	Logistics transfers resume
10/12/02	Sat	08:46 AM	04	17	00	EVA-2: EMU purge
10/12/02	Sat	08:51 AM	04	17	05	Quest airlock repressurized to 14.7 psi
10/12/02	Sat	09:01 AM	04	17	15	EVA-2: Oxygen pre-breathe
10/12/02	Sat	09:36 AM	04	17	50	RMS powerup
10/12/02	Sat	10:01 AM	04	18	15	EVA-2: Airlock depressurization
10/12/02	Sat	10:46 AM	04	19	00	EVA-2: Airlock egress
10/12/02	Sat	10:56 AM	04	19	10	EVA-2: Sortie setup
10/12/02	Sat	11:06 AM	04	19	20	ISS: Korzun exercises
10/12/02	Sat	11:26 AM	04	19	40	EVA-2: EV1: Z-P6 SPD installation
10/12/02	Sat	11:26 AM	04	19	40	EVA-2: EV2: Z1-lab loop A
10/12/02	Sat	11:56 AM	04	20	10	EVA-2: EV2: Connect ATA umbilical
10/12/02	Sat	12:06 PM	04	20	20	EVA-2: EV1: CETA cart launch locks
10/12/02	Sat	12:06 PM	04	20	20	ISS: Midday meal
10/12/02	Sat	12:36 PM	04	20	50	EVA-2: EV1/EV2: Lab camera installation

10/12/02	Sat	01:16 PM	04	21	30	Yurchikhin exercises
10/12/02	Sat	01:51 PM	04	22	05	EVA-2: EV1/EV2: SPD installation
10/12/02	Sat	02:41 PM	04	22	55	ISS: Korzun exercises
10/12/02	Sat	02:46 PM	04	23	00	Ashby exercises
10/12/02	Sat	04:06 PM	05	00	20	EVA-2: EV1/EV2: Launch lock release
10/12/02	Sat	04:21 PM	05	00	35	EVA-2: Cleanup
10/12/02	Sat	04:51 PM	05	01	05	EVA-2: Airlock ingress
10/12/02	Sat	05:11 PM	05	01	25	EVA-2: Airlock repressurization
10/12/02	Sat	05:26 PM	05	01	40	RMS powerdown
10/12/02	Sat	06:31 PM	05	02	45	ISS daily planning conference
10/12/02	Sat	08:46 PM	05	05	00	STS/ISS crew sleep begins

Flight Day 7**MET 5/13:00 through 6/04:00 updated 10/13/02**

10/13/02	Sun	04:46 AM	05	13	00	STS crew wakeup
10/13/02	Sun	05:16 AM	05	13	30	ISS crew wakeup
10/13/02	Sun	06:46 AM	05	15	00	ISS daily planning conference
10/13/02	Sun	07:16 AM	05	15	30	Russian PAO event
10/13/02	Sun	07:31 AM	05	15	45	ISS crew begins TVIS repair
10/13/02	Sun	07:46 AM	05	16	00	Magnus exercises
10/13/02	Sun	08:31 AM	05	16	45	Melroy exercises
10/13/02	Sun	08:41 AM	05	16	55	Quest equipment lock prep
10/13/02	Sun	08:46 AM	05	17	00	Logistics transfers resume
10/13/02	Sun	09:01 AM	05	17	15	Sellers exercises
10/13/02	Sun	09:21 AM	05	17	35	EVA camera setup
10/13/02	Sun	09:41 AM	05	17	55	Ashby exercises
10/13/02	Sun	10:01 AM	05	18	15	Tool configuration
10/13/02	Sun	10:01 AM	05	18	15	PGBA transfer
10/13/02	Sun	11:01 AM	05	19	15	Joint STS/ISS crew meal
10/13/02	Sun	12:01 PM	05	20	15	Logistics transfers resume
10/13/02	Sun	12:01 PM	05	20	15	TVIS repair work resumes
10/13/02	Sun	12:01 PM	05	20	15	Quest equipment lock prep resumes
10/13/02	Sun	12:01 PM	05	20	15	Logistics transfers resume

10/13/02	Sun	12:31 PM	05	20	45	Yurchikhin exercises
10/13/02	Sun	02:01 PM	05	22	15	Joint crew photo
10/13/02	Sun	02:31 PM	05	22	45	Joint crew news conference
10/13/02	Sun	03:01 PM	05	23	15	Logistics transfers resume
10/13/02	Sun	03:46 PM	06	00	00	EVA-3: Procedures review
10/13/02	Sun	04:16 PM	06	00	30	S1 radiator deploy (delayed)
10/13/02	Sun	04:46 PM	06	01	00	ISS: Whitson exercises
10/13/02	Sun	05:31 PM	06	01	45	ISS daily planning conference
10/13/02	Sun	07:46 PM	06	04	00	STS/ISS crew sleep begins
Flight Day 8			MET 6/12:00 through 7/05:00 updated 10/14/02			
10/14/02	Mon	03:46 AM	06	12	00	STS crew wakeup
10/14/02	Mon	04:01 AM	06	12	15	Radiator panel deploy
10/14/02	Mon	04:16 AM	06	12	30	ISS crew wakeup
10/14/02	Mon	05:46 AM	06	14	00	ISS daily planning conference
10/14/02	Mon	05:56 AM	06	14	10	EVA prep begins
10/14/02	Mon	06:31 AM	06	14	45	Logistics transfers resume
10/14/02	Mon	06:31 AM	06	14	45	TVIS checkout and setup
10/14/02	Mon	06:56 AM	06	15	10	Quest airlock depress to 10.2 psi
10/14/02	Mon	07:21 AM	06	15	35	Reboost config 3
10/14/02	Mon	07:41 AM	06	15	55	ISS: Whitson exercises
10/14/02	Mon	08:46 AM	06	17	00	EVA-3: EMU purge
10/14/02	Mon	08:51 AM	06	17	05	Quest airlock repressurized to 14.7 psi
10/14/02	Mon	09:01 AM	06	17	15	EVA-3: Oxygen pre-breathe
10/14/02	Mon	09:26 AM	06	17	40	Magnus exercises
10/14/02	Mon	10:01 AM	06	18	15	EVA-3: Airlock depressurization
10/14/02	Mon	10:46 AM	06	19	00	EVA-3: Egress
10/14/02	Mon	10:46 AM	06	19	00	ISS: Korzun exercises
10/14/02	Mon	10:46 AM	06	19	00	Yurchikhin exercises
10/14/02	Mon	10:56 AM	06	19	10	EVA-3: Sortie setup
10/14/02	Mon	11:26 AM	06	19	40	EVA-3: IUA R&R
10/14/02	Mon	12:41 PM	06	20	55	EVA-3: Connect S1-S0 FLD JP

10/14/02	Mon	01:46 PM	06	22	00	Ashby exercises
10/14/02	Mon	02:06 PM	06	22	20	EVA-3: Remove port keel pin
10/14/02	Mon	02:46 PM	06	23	00	EVA-3: Remove starboard keel pin
10/14/02	Mon	02:51 PM	06	23	05	ISS: Korzun exercises
10/14/02	Mon	03:26 PM	06	23	40	EVA-3: TRRJ SPDS
10/14/02	Mon	03:51 PM	07	00	05	EVA-3: EV2: SFU config
10/14/02	Mon	04:01 PM	07	00	15	ISS: Treschev exercises
10/14/02	Mon	04:21 PM	07	00	35	EVA-3: Sortie cleanup
10/14/02	Mon	04:51 PM	07	01	05	EVA-3: Airlock ingress
10/14/02	Mon	05:11 PM	07	01	25	EVA-3: Airlock repressurization
10/14/02	Mon	06:16 PM	07	02	30	ISS daily planning conference
10/14/02	Mon	08:46 PM	07	05	00	STS/ISS crew sleep begins
Flight Day 9			MET 7/13:00 through 8/04:00 updated 10/15/02			
10/15/02	Tue	04:46 AM	07	13	00	STS crew wakeup
10/15/02	Tue	05:16 AM	07	13	30	ISS crew wakeup
10/15/02	Tue	06:46 AM	07	15	00	ISS daily planning conference
10/15/02	Tue	07:21 AM	07	15	35	ISS: Off-duty time begins
10/15/02	Tue	07:55 AM	07	16	09	STS crew off-duty time begins
10/15/02	Tue	09:16 AM	07	17	30	ISS: Korzun exercises
10/15/02	Tue	09:46 AM	07	18	00	ISS: Whitson exercises
10/15/02	Tue	10:16 AM	07	18	30	ISS: Treschev exercises
10/15/02	Tue	10:46 AM	07	19	00	ISS: Whitson exercises
10/15/02	Tue	11:46 AM	07	20	00	Joint crew meal
10/15/02	Tue	12:46 PM	07	21	00	Magnus exercises
10/15/02	Tue	12:46 PM	07	21	00	Nitrogen transfer termination
10/15/02	Tue	01:16 PM	07	21	30	Yurchikhin exercises
10/15/02	Tue	01:46 PM	07	22	00	CGBA transfer
10/15/02	Tue	01:46 PM	07	22	00	Melroy exercises
10/15/02	Tue	01:46 PM	07	22	00	CCAA water sep R&R
10/15/02	Tue	02:16 PM	07	22	30	Wolf exercises
10/15/02	Tue	02:31 PM	07	22	45	Radiator photos

10/15/02	Tue	02:46 PM	07	23	00	Rendezvous tools checkout
10/15/02	Tue	03:01 PM	07	23	15	Logistics transfers resume
10/15/02	Tue	03:16 PM	07	23	30	ISS: Korzun exercises
10/15/02	Tue	03:46 PM	08	00	00	Sellers exercises
10/15/02	Tue	04:16 PM	08	00	30	Ashby exercises
10/15/02	Tue	05:01 PM	08	01	15	ISS daily planning conference
10/15/02	Tue	07:46 PM	08	04	00	STS/ISS crew sleep begins
Flight Day 10			MET 8/12:00 through 9/03:00 updated 10/16/02			
10/16/02	Wed	03:46 AM	08	12	00	STS crew wakeup
10/16/02	Wed	04:16 AM	08	12	30	ISS crew wakeup
10/16/02	Wed	06:16 AM	08	14	30	ISS daily planning conference
10/16/02	Wed	06:31 AM	08	14	45	Melroy exercises
10/16/02	Wed	06:46 AM	08	15	00	Hatch closing
10/16/02	Wed	07:01 AM	08	15	15	ISS: Treschev exercises
10/16/02	Wed	07:06 AM	08	15	20	Leak checks
10/16/02	Wed	07:26 AM	08	15	40	Yurchikhin exercises
10/16/02	Wed	08:11 AM	08	16	25	Group B computer powerup
10/16/02	Wed	08:31 AM	08	16	45	Undocking timeline begins
10/16/02	Wed	08:46 AM	08	17	00	ISS crew prepares PMA-2 for departure
10/16/02	Wed	09:13 AM	08	17	27	UNDOCKING
10/16/02	Wed	09:59 AM	08	18	13	Begin flyaround
10/16/02	Wed	10:11 AM	08	18	25	ISS: Whitson exercises
10/16/02	Wed	10:31 AM	08	18	45	ISS: Korzun exercises
10/16/02	Wed	11:04 AM	08	19	18	Separation burn
10/16/02	Wed	11:16 AM	08	19	30	Group B computer powerdown
10/16/02	Wed	11:21 AM	08	19	35	SHIMMER setup and activation
10/16/02	Wed	11:31 AM	08	19	45	ISS midday meal
10/16/02	Wed	11:46 AM	08	20	00	Ashby exercises
10/16/02	Wed	11:46 AM	08	20	00	Post undocking laptop computer config
10/16/02	Wed	11:56 AM	08	20	10	SHIMMER limb observations
10/16/02	Wed	12:16 PM	08	20	30	Sellers exercises

10/16/02	Wed	12:31 PM	08	20	45	ISS crew off duty time begins
10/16/02	Wed	12:36 PM	08	20	50	SHIMMER moon observations
10/16/02	Wed	12:41 PM	08	20	55	ISS crew depressurizes PMA2
10/16/02	Wed	01:01 PM	08	21	15	SHIMMER deactivation
10/16/02	Wed	01:39 PM	08	21	53	PAO event with Ashby, Melroy, Yurchikhin
10/16/02	Wed	01:46 PM	08	22	00	ISS: Whitson exercises
10/16/02	Wed	01:56 PM	08	22	10	Magnus exercises
10/16/02	Wed	02:01 PM	08	22	15	ISS: Korzun exercises
10/16/02	Wed	02:16 PM	08	22	30	SHIMMER stow
10/16/02	Wed	02:46 PM	08	23	00	Wolf exercises
10/16/02	Wed	03:31 PM	08	23	45	ISS: PMA2 leak checks
10/16/02	Wed	07:16 PM	09	03	30	STS crew sleep begins

Flight Day 11**MET 9/11:30 through end of mission updated 10/17/02**

10/17/02	Thu	03:16 AM	09	11	30	STS crew wakeup
10/17/02	Thu	06:16 AM	09	14	30	Cabin stow begins
10/17/02	Thu	06:31 AM	09	14	45	SHIMMER setup and activation
10/17/02	Thu	07:01 AM	09	15	15	SHIMMER moon observations
10/17/02	Thu	07:16 AM	09	15	30	Melroy exercises
10/17/02	Thu	07:36 AM	09	15	50	SHIMMER limb observations
10/17/02	Thu	07:56 AM	09	16	10	SHIMMER deactivation and stow
10/17/02	Thu	08:16 AM	09	16	30	Flight control system checkout
10/17/02	Thu	08:46 AM	09	17	00	Yurchikhin exercises
10/17/02	Thu	09:16 AM	09	17	30	Sellers exercises
10/17/02	Thu	09:26 AM	09	17	40	Reaction control system hotfire
10/17/02	Thu	10:01 AM	09	18	15	Ashby exercises
10/17/02	Thu	11:01 AM	09	19	15	L-1 comm checks
10/17/02	Thu	11:16 AM	09	19	30	Crew meal
10/17/02	Thu	12:16 PM	09	20	30	On-board de-orbit review
10/17/02	Thu	12:46 PM	09	21	00	PAO event with entire crew
10/17/02	Thu	01:06 PM	09	21	20	Cabin stow resumes
10/17/02	Thu	01:06 PM	09	21	20	Magnus exercises

10/17/02	Thu	01:46 PM	09	22	00	Wolf exercises
10/17/02	Thu	01:56 PM	09	22	10	PILOT landing practice (PLT)
10/17/02	Thu	02:06 PM	09	22	20	L-1 comm checks (part 2)
10/17/02	Thu	02:31 PM	09	22	45	PILOT landing practice (CDR)
10/17/02	Thu	03:46 PM	10	00	00	Ergometer stow
10/17/02	Thu	04:01 PM	10	00	15	PGSC stow
10/17/02	Thu	04:26 PM	10	00	40	OMS orbit adjust rocket firing
10/17/02	Thu	07:16 PM	10	03	30	STS crew sleep begins
Flight Day 12						
10/18/02	Fri	03:16 AM	10	11	30	STS crew wakeup
10/18/02	Fri	05:26 AM	10	13	40	Group B computer powerup
10/18/02	Fri	05:36 AM	10	13	50	IMU alignment
10/18/02	Fri	05:46 AM	10	14	00	GIRA stow
10/18/02	Fri	05:46 AM	10	14	00	OCAC stow
10/18/02	Fri	06:38 AM	10	14	52	Deorbit timeline begins
10/18/02	Fri	10:36 AM	10	18	50	Deorbit burn
10/18/02	Fri	11:44 AM	10	19	58	Landing
Compiled by William Harwood						