

STS-108/ISS-UF1			SpaceCalc Shuttle Mission Planner			
Eastern Time			DD	HH	MM	STS-108 Master Flight Plan: Updated 12/15/01
I	S	12/05/01 05:19 PM	00	00	00	STS-108 launch from pad 39B
S	T	12/05/01 05:28 PM	00	00	09	Main engine cutoff
S	S	12/05/01 06:44 PM	00	01	25	Payload bay door opening
		12/05/01 07:49 PM	00	02	30	OCA, printer setup
		12/05/01 08:04 PM	00	02	45	GIRA installation
		12/05/01 08:34 PM	00	03	15	SEE Setup
		12/05/01 08:55 PM	00	03	36	NC1 rendezvous rocket firing
		12/05/01 09:04 PM	00	03	45	RMS (robot arm) initialization
		12/05/01 09:14 PM	00	03	55	Group B computer powerdown
<b>MET 0/07:00 through 1/06:00 updated 12/06/01</b>						
		12/06/01 12:19 AM	00	07	00	Crew sleep begins
		12/06/01 08:19 AM	00	15	00	Crew wakeup
		12/06/01 11:19 AM	00	18	00	Ergometer setup
		12/06/01 12:14 PM	00	18	55	SIGI setup
		12/06/01 12:27 PM	00	19	08	NC2 rendezvous rocket firing
		12/06/01 12:29 PM	00	19	10	Rendezvous computer setup
		12/06/01 12:49 PM	00	19	30	RMS powerup
		12/06/01 12:49 PM	00	19	30	GAS group 1 activation
		12/06/01 12:49 PM	00	19	30	Airlock prep
		12/06/01 12:54 PM	00	19	35	HR experiment setup
		12/06/01 01:04 PM	00	19	45	RMS checkout
		12/06/01 01:29 PM	00	20	10	HR experiment runs begin with ISS-4 crew
		12/06/01 01:49 PM	00	20	30	RMS payload bay survey
		12/06/01 02:19 PM	00	21	00	RMS powerdown
		12/06/01 02:19 PM	00	21	00	Rendezvous tools checkout

12/06/01	02:34 PM	00	21	15	Orbiter docking system ring extension
12/06/01	02:49 PM	00	21	30	Spacesuit checkout begins
12/06/01	04:09 PM	00	22	50	Crew meal
12/06/01	05:09 PM	00	23	50	Rendezvous tagup/review
12/06/01	05:39 PM	01	00	20	Crew off duty time begins
12/06/01	05:39 PM	01	00	20	Gorie exercises
12/06/01	06:14 PM	01	00	55	Kelly exercises
12/06/01	07:38 PM	01	02	19	NC3 rendezvous rocket firing
12/06/01	08:19 PM	01	03	00	GAS group 2 activation
12/06/01	11:19 PM	01	06	00	Crew sleep begins
<b>MET 1/14:00 through 2/14:00 updated 12/07/01</b>					
12/07/01	07:19 AM	01	14	00	Crew wakeup
12/07/01	08:49 AM	01	15	30	ISS Crew wakeup
12/07/01	09:29 AM	01	16	10	Group B computer powerup
12/07/01	09:39 AM	01	16	20	ISS: Daily planning conference
12/07/01	09:44 AM	01	16	25	Rendezvous timeline begins
12/07/01	10:19 AM	01	17	00	Logistics transfer preparations
12/07/01	10:59 AM	01	17	40	ISS: Tyurin exercises (TVIS)
12/07/01	11:11 AM	01	17	52	NC4 rendezvous rocket firing
12/07/01	11:59 AM	01	18	40	ISS: Culbertson exercises (CEVIS)
12/07/01	11:59 AM	01	18	40	ISS: Dezhurov exercises (TVIS)
12/07/01	12:44 PM	01	19	25	TI rendezvous rocket firing
12/07/01	01:09 PM	01	19	50	MS meals begin
12/07/01	01:34 PM	01	20	15	Begin final approach timeline
12/07/01	01:49 PM	01	20	30	ISS: Crew meals begin
12/07/01	02:17 PM	01	20	58	R-bar arrival
12/07/01	03:03 PM	01	21	44	DOCKING (actual)
12/07/01	03:29 PM	01	22	10	Leak checks
12/07/01	03:49 PM	01	22	30	ODS prepared for ingress
12/07/01	03:49 PM	01	22	30	Hatch opening work begins
12/07/01	03:59 PM	01	22	40	Group B computer powerdown

12/07/01	04:59 PM	01	23	40	Welcome aboard!
12/07/01	05:19 PM	02	00	00	Safety briefing
12/07/01	05:19 PM	02	00	00	Shuttle-station spacesuit transfer work begins
12/07/01	05:39 PM	02	00	20	Middeck transfer operations begin
12/07/01	05:39 PM	02	00	20	ISS-3/ISS-4 handover activities begin (continues through day)
12/07/01	09:54 PM	02	04	35	ISS: Daily planning conference
12/07/01	11:19 PM	02	06	00	STS/ISS crew sleep begins
<b>MET 2/14:00 through 3/14:00 updated 12/08/01</b>					
12/08/01	07:19 AM	02	14	00	STS crew wakeup
12/08/01	07:49 AM	02	14	30	ISS crew wakeup
12/08/01	09:14 AM	02	15	55	ISS: Daily planning conference
12/08/01	09:49 AM	02	16	30	Node 1 CBM prepped for mating
12/08/01	10:19 AM	02	17	00	RMS powerup
12/08/01	10:19 AM	02	17	00	Tyurin/Walz Soyuz seat liner transfer
12/08/01	10:19 AM	02	17	00	Dezhurov/Onufrienko Soyuz seat liner transfer
12/08/01	10:24 AM	02	17	05	Tani exercises
12/08/01	10:34 AM	02	17	15	RMS grapples MPLM
12/08/01	11:19 AM	02	18	00	MPLM unberthing operations
12/08/01	11:19 AM	02	18	00	Culbertson/Bursch Soyuz seat liner transfer
12/08/01	11:24 AM	02	18	05	Middeck transfer operations resume
12/08/01	12:29 PM	02	19	10	MPLM attached to Unity nadir port
12/08/01	01:09 PM	02	19	50	Sokol suit leak check (Bursch)
12/08/01	01:54 PM	02	20	35	RMS ungrapples MPLM
12/08/01	02:04 PM	02	20	45	RMS powerdown
12/08/01	02:04 PM	02	20	45	STS crew meals begin (staggered)
12/08/01	02:54 PM	02	21	35	Vestibule pressurization
12/08/01	03:09 PM	02	21	50	Sokol suit leak check (Onufrienko)
12/08/01	03:39 PM	02	22	20	APCF transfer to middeck
12/08/01	03:54 PM	02	22	35	MPLM/ISS vestibule equipment setup
12/08/01	03:54 PM	02	22	35	Sokol suit leak check (Walz)
12/08/01	04:24 PM	02	23	05	Vestibule configured for ingress

12/08/01	04:44 PM	02	23	25	PAO Event: CDR, PLT, ISS-3 CDR, ISS-4 CDR
12/08/01	04:54 PM	02	23	35	Dezhurov exercises (TVIS)
12/08/01	05:24 PM	03	00	05	Gorie exercises
12/08/01	05:24 PM	03	00	05	Tyurin exercises (TVIS)
12/08/01	05:44 PM	03	00	25	Culbertson exercises (CEVIS)
12/08/01	05:54 PM	03	00	35	MPLM activation step 1
12/08/01	06:34 PM	03	01	15	Kelly exercises
12/08/01	06:54 PM	03	01	35	MPLM activation step 2
12/08/01	07:19 PM	03	02	00	Dezhurov exercises (TVIS)
12/08/01	07:54 PM	03	02	35	MPLM ingress
12/08/01	08:49 PM	03	03	30	ISS daily planning conference
12/08/01	11:19 PM	03	06	00	STS/ISS crew sleep begins
<b>MET 3/14:00 through 4/14:00 updated 12/09/01</b>					
12/09/01	07:19 AM	03	14	00	STS crew wakeup
12/09/01	07:49 AM	03	14	30	ISS crew wakeup
12/09/01	09:19 AM	03	16	00	ISS daily planning conference
12/09/01	09:34 AM	03	16	15	Maneuver to reboost attitude
12/09/01	10:09 AM	03	16	50	Reboost operations
12/09/01	10:19 AM	03	17	00	MPLM transfer operations
12/09/01	10:19 AM	03	17	00	Culbertson exercises (TVIS)
12/09/01	11:14 AM	03	17	55	Bursch exercises (CEVIS)
12/09/01	12:14 PM	03	18	55	Onufrienko exercises (CEVIS)
12/09/01	12:14 PM	03	18	55	Tani exercises
12/09/01	12:29 PM	03	19	10	Dezhurov exercises (TVIS)
12/09/01	01:09 PM	03	19	50	Tyurin exercises (CEVIS)
12/09/01	01:14 PM	03	19	55	ISS-3/ISS-4 handover activity resumes
12/09/01	01:14 PM	03	19	55	Godwin exercises
12/09/01	01:49 PM	03	20	30	Gorie exercises
12/09/01	02:14 PM	03	20	55	EVA tools configured
12/09/01	02:14 PM	03	20	55	Spacewalk tools configured
12/09/01	02:14 PM	03	20	55	Kelly exercises

12/09/01	02:44 PM	03	21	25	Nitrogen gas tranfer troubleshooting
12/09/01	03:14 PM	03	21	55	Joint STS/ISS crew meal
12/09/01	04:39 PM	03	23	20	Middeck preps
12/09/01	05:24 PM	04	00	05	PAO event with entire STS/ISS crew
12/09/01	05:39 PM	04	00	20	STS crew reviews EVA procedures
12/09/01	05:39 PM	04	00	20	ISS: MPLM transfers resume
12/09/01	07:29 PM	04	02	10	Hatches closed
12/09/01	07:29 PM	04	02	10	Walz exercises
12/09/01	07:54 PM	04	02	35	10.2 cabin depressurization
12/09/01	08:49 PM	04	03	30	ISS daily planning conference
12/09/01	11:19 PM	04	06	00	STS/ISS crew sleep begins
<b>MET 4/14:00 through 5/14:00 updated 12/10/01</b>					
12/10/01	07:19 AM	04	14	00	STS crew wakeup
12/10/01	07:49 AM	04	14	30	ISS crew wakeup
12/10/01	09:19 AM	04	16	00	ISS daily planning conference
12/10/01	09:19 AM	04	16	00	EVA: Preparations begin
12/10/01	10:04 AM	04	16	45	ISS: Transfer operations begin
12/10/01	10:19 AM	04	17	00	Dezhurov exercises
12/10/01	10:49 AM	04	17	30	EVA: Spacesuit purge begins
12/10/01	10:49 AM	04	17	30	RMS powerup
12/10/01	11:34 AM	04	18	15	Bursch exercises (TVIS)
12/10/01	11:49 AM	04	18	30	Tyurin exercises
12/10/01	12:14 PM	04	18	55	EVA: Airlock depressurization
12/10/01	12:24 PM	04	19	05	EVA: Egress
12/10/01	12:29 PM	04	19	10	EVA: Sortie setup
12/10/01	12:34 PM	04	19	15	Walz exercises (TVIS)
12/10/01	01:19 PM	04	20	00	Culbertson exercises
12/10/01	01:29 PM	04	20	10	EVA: BGA blanket installation
12/10/01	01:39 PM	04	20	20	Onufrienko exercises (TVIS)
12/10/01	02:39 PM	04	21	20	ISS-4 meals
12/10/01	02:49 PM	04	21	30	EVA: Sortie cleanup

12/10/01	03:19 PM	04	22	00	ISS-3 meals
12/10/01	03:34 PM	04	22	15	14.7 cabin repressurization
12/10/01	03:39 PM	04	22	20	ISS: Transfer operations resume
12/10/01	03:39 PM	04	22	20	ISS: SAFER checkout
12/10/01	04:19 PM	04	23	00	EVA: Airlock ingress and repressurization
12/10/01	04:24 PM	04	23	05	RMS powerdown
12/10/01	05:39 PM	05	00	20	Interim ingress prior to hatch opening
12/10/01	05:59 PM	05	00	40	Hatches reopened
12/10/01	09:19 PM	05	04	00	ISS daily planning conference
12/10/01	11:19 PM	05	06	00	STS/ISS crew sleep begins
<b>MET 5/14:00 through 6/14:00 updated 12/11/01</b>					
12/11/01	07:19 AM	05	14	00	STS crew wakeup
12/11/01	07:49 AM	05	14	30	ISS crew wakeup
12/11/01	08:46 AM	05	15	27	Sept. 11 commemorative event
12/11/01	09:14 AM	05	15	55	ISS daily planning conference
12/11/01	09:29 AM	05	16	10	ISS: Regul handover
12/11/01	10:19 AM	05	17	00	Transfer operations resume
12/11/01	10:24 AM	05	17	05	Russian media interviews
12/11/01	10:24 AM	05	17	05	ISS: Nitrogen system troubleshooting
12/11/01	10:24 AM	05	17	05	Reboost operations begin
12/11/01	10:39 AM	05	17	20	ISS handover operations resume
12/11/01	10:39 AM	05	17	20	Dezhurov exercises
12/11/01	10:49 AM	05	17	30	Maneuver to reboost attitude
12/11/01	11:19 AM	05	18	00	Reboost operations
12/11/01	11:24 AM	05	18	05	Bursch exercises (red)
12/11/01	11:29 AM	05	18	10	Godwin exercises
12/11/01	11:39 AM	05	18	20	Tyurin exercises (TVIS)
12/11/01	12:04 PM	05	18	45	Culbertson exercises (CEVIS)
12/11/01	12:24 PM	05	19	05	Walz exercises (red)
12/11/01	12:34 PM	05	19	15	Kelly exercises
12/11/01	01:04 PM	05	19	45	Culbertson exercises (TVIS)

12/11/01	01:04 PM	05	19	45	Tani exercises
12/11/01	01:09 PM	05	19	50	Onufrienko exercises (VELD)
12/11/01	02:04 PM	05	20	45	Joint meal
12/11/01	03:04 PM	05	21	45	Crew news conference
12/11/01	03:34 PM	05	22	15	Crew photo
12/11/01	03:49 PM	05	22	30	ISS change-of-command ceremony
12/11/01	04:04 PM	05	22	45	ISS handover operations resume
12/11/01	04:04 PM	05	22	45	MPLM transfer operations resume
12/11/01	05:19 PM	06	00	00	Tyurin exercises (TVIS)
12/11/01	06:19 PM	06	01	00	Orlan suit handover
12/11/01	07:19 PM	06	02	00	Gorie exercises
12/11/01	07:19 PM	06	02	00	Dezhurov exercises (TVIS)
12/11/01	09:24 PM	06	04	05	ISS daily planning conference
12/11/01	11:19 PM	06	06	00	STS/ISS crew sleep begins
<b>MET 6/14:00 through 7/14:00 updated 12/12/01</b>					
12/12/01	07:19 AM	06	14	00	STS crew wakeup
12/12/01	07:49 AM	06	14	30	ISS crew wakeup
12/12/01	09:19 AM	06	16	00	Dezhurov exercises (TVIS)
12/12/01	09:34 AM	06	16	15	ISS daily planning conference
12/12/01	09:39 AM	06	16	20	Maneuver to ISS reboost attitude
12/12/01	10:09 AM	06	16	50	ISS reboost maneuver begins
12/12/01	10:19 AM	06	17	00	Transfer operations resume
12/12/01	10:19 AM	06	17	00	ISS handover activities resume
12/12/01	10:19 AM	06	17	00	Tani exercises
12/12/01	10:19 AM	06	17	00	ISS: TVIS replacement (Walz and Bursch)
12/12/01	12:24 PM	06	19	05	Culbertson exercises (CEVIS)
12/12/01	02:44 PM	06	21	25	Joint STS/ISS crew meal
12/12/01	03:44 PM	06	22	25	Transfer operations resume
12/12/01	03:44 PM	06	22	25	Handover activity resumes
12/12/01	03:44 PM	06	22	25	TVIS replacement work resumes
12/12/01	04:19 PM	06	23	00	Gorie exercises

12/12/01	05:19 PM	07	00	00	Godwin exercises
12/12/01	06:19 PM	07	01	00	Tyurin exercises (CEVIS)
12/12/01	06:54 PM	07	01	35	Onufrienko exercises (RED)
12/12/01	09:09 PM	07	03	50	ISS daily planning conference
12/12/01	11:19 PM	07	06	00	STS/ISS crew sleep begins
<b>MET 7/14:00 through 8/13:00 updated 12/13/01</b>					
12/13/01	07:49 AM	07	14	30	ISS crew wakeup
12/13/01	08:04 AM	07	14	45	STS crew wakeup
12/13/01	09:19 AM	07	16	00	Laptop removal and replacement
12/13/01	09:34 AM	07	16	15	ISS daily planning conference
12/13/01	10:04 AM	07	16	45	ORCA oxygen transfer setup
12/13/01	10:19 AM	07	17	00	Transfer operations resume
12/13/01	10:19 AM	07	17	00	Utility power strip installation
12/13/01	10:19 AM	07	17	00	Tani exercises
12/13/01	10:19 AM	07	17	00	ISS handover operations resume
12/13/01	10:49 AM	07	17	30	High pressure oxygen transfer
12/13/01	11:09 AM	07	17	50	Lower body negative pressure runs
12/13/01	11:39 AM	07	18	20	Bursch exercises (RED)
12/13/01	12:19 PM	07	19	00	Kelly exercises
12/13/01	12:29 PM	07	19	10	Culbertson exercises (TVIS)
12/13/01	12:39 PM	07	19	20	Dezhurov exercises (CEVIS)
12/13/01	01:39 PM	07	20	20	Walz exercises (RED)
12/13/01	03:04 PM	07	21	45	Crew meals begin
12/13/01	04:09 PM	07	22	50	Change-of-command ceremony
12/13/01	04:24 PM	07	23	05	ISS: CBN CPA installation
12/13/01	04:24 PM	07	23	05	Handover operations resume
12/13/01	05:59 PM	08	00	40	Tyurin exercises (TVIS)
12/13/01	06:19 PM	08	01	00	Godwin exercises
12/13/01	08:09 PM	08	02	50	ISS daily planning conference
12/13/01	10:19 PM	08	05	00	STS/ISS crew sleep begins



MET 8/13:00 through 9/11:00 updated 12/14/01					
12/14/01	06:19 AM	08	13	00	STS crew wakeup
12/14/01	06:49 AM	08	13	30	ISS crew wakeup
12/14/01	07:44 AM	08	14	25	ISS daily planning conference
12/14/01	08:24 AM	08	15	05	Handover operations resume
12/14/01	08:34 AM	08	15	15	Lower body negative pressure setup
12/14/01	08:39 AM	08	15	20	Lower body negative pressure tests
12/14/01	08:49 AM	08	15	30	Transfer operations resume
12/14/01	08:59 AM	08	15	40	ISS A/C compressor replacement
12/14/01	09:39 AM	08	16	20	Gorie exercises
12/14/01	10:14 AM	08	16	55	MPLM transfer closeout
12/14/01	10:14 AM	08	16	55	Rack configured for entry
12/14/01	10:44 AM	08	17	25	MPLM egress
12/14/01	10:44 AM	08	17	25	Culbertson exercises (TVIS)
12/14/01	10:54 AM	08	17	35	MPLM deactivation
12/14/01	10:59 AM	08	17	40	Kelly exercises
12/14/01	11:19 AM	08	18	00	Vestibule configured for demate
12/14/01	12:19 PM	08	19	00	Dezhurov exercises (TVIS)
12/14/01	12:24 PM	08	19	05	Godwin exercises
12/14/01	12:49 PM	08	19	30	Vestibule depressurized
12/14/01	12:49 PM	08	19	30	Bursch exercises (CEVIS)
12/14/01	01:04 PM	08	19	45	Tani exercises
12/14/01	01:24 PM	08	20	05	RMS powerup
12/14/01	01:44 PM	08	20	25	Tyurin exercises (TVIS)
12/14/01	01:49 PM	08	20	30	Onufrienko exercises (CEVIS)
12/14/01	02:19 PM	08	21	00	RMS grapples MPLM
12/14/01	02:44 PM	08	21	25	Node 1 CBM demate
12/14/01	02:49 PM	08	21	30	Walz exercises (RED)
12/14/01	03:09 PM	08	21	50	STS crew meals
12/14/01	04:09 PM	08	22	50	MPLM unberthed from ISS
12/14/01	04:19 PM	08	23	00	ISS meals
12/14/01	04:39 PM	08	23	20	MPLM reberthed in shuttle

12/14/01	05:19 PM	09	00	00	RMS ungrapples MPLM
12/14/01	05:29 PM	09	00	10	RMS powerdown
12/14/01	05:49 PM	09	00	30	Undocking review
12/14/01	06:19 PM	09	01	00	Rendezvous computer setup
12/14/01	06:19 PM	09	01	00	Dezhurov exercises (TVIS)
12/14/01	06:49 PM	09	01	30	Rendezvous tools setup
12/14/01	07:09 PM	09	01	50	ISS daily planning conference
12/14/01	09:19 PM	09	04	00	STS/ISS crew sleep begins
<b>MET 9/12:00 through 10/11:00 updated 12/15/01</b>					
12/15/01	05:19 AM	09	12	00	STS crew wakeup
12/15/01	05:49 AM	09	12	30	ISS crew wakeup
12/15/01	06:59 AM	09	13	40	Nitrogen repress
12/15/01	07:09 AM	09	13	50	Tani exercises
12/15/01	07:14 AM	09	13	55	ISS daily planning conference
12/15/01	07:44 AM	09	14	25	ISS: Middeck transfers
12/15/01	07:59 AM	09	14	40	ISS hatch egress
12/15/01	08:29 AM	09	15	10	Hatches closed
12/15/01	08:29 AM	09	15	10	Dezhurov exercises
12/15/01	08:29 AM	09	15	10	ODS vestibule leak check
12/15/01	08:44 AM	09	15	25	ISS: Bursch exercises (TVIS)
12/15/01	08:49 AM	09	15	30	Culbertson exercises
12/15/01	09:09 AM	09	15	50	ISS: Onufrienko exercises (CEVIS)
12/15/01	09:19 AM	09	16	00	Maneuver to reboost attitude
12/15/01	09:19 AM	09	16	00	Tyurin exercises
12/15/01	09:44 AM	09	16	25	Collision avoidance reboost
12/15/01	09:54 AM	09	16	35	Godwin exercises
12/15/01	10:24 AM	09	17	05	Spacesuit installation
12/15/01	10:39 AM	09	17	20	Group B powerup
12/15/01	10:54 AM	09	17	35	Undocking timeline begins
12/15/01	11:19 AM	09	18	00	ISS: Depart PMA-2
12/15/01	12:28 PM	09	19	09	Undocking

12/15/01	11:49 AM	09	18	30	ISS: PMA-2 depressurization
12/15/01	12:19 PM	09	19	00	ISS: Walz exercises (RED)
12/15/01	12:20 PM	09	19	01	Final separation
12/15/01	12:29 PM	09	19	10	Crew meals/off-duty time begins
12/15/01	12:29 PM	09	19	10	Dezhurov exercises
12/15/01	12:34 PM	09	19	15	Centerline camera removal
12/15/01	12:44 PM	09	19	25	Group B computer powerdown
12/15/01	12:59 PM	09	19	40	Culbertson exercises
12/15/01	01:29 PM	09	20	10	Kelly exercises
12/15/01	03:09 PM	09	21	50	Tyurin exercises
12/15/01	04:09 PM	09	22	50	PAO event: STS/ISS-3 crews
12/15/01	04:29 PM	09	23	10	ISS: Crew sleep begins
12/15/01	04:54 PM	09	23	35	Orbit adjust rocket firing
12/15/01	08:19 PM	10	03	00	STS crew sleep begins
<b>MET 10/11:00 through end of mission updated 12/15/01</b>					
12/16/01	04:19 AM	10	11	00	STS crew wakeup
12/16/01	06:49 AM	10	13	30	Culbertson exercises
12/16/01	07:09 AM	10	13	50	PILOT landing simulator practice
12/16/01	07:19 AM	10	14	00	Cabin stow begins
12/16/01	07:19 AM	10	14	00	Tyurin exercises
12/16/01	08:09 AM	10	14	50	Flight control system checkout
12/16/01	08:19 AM	10	15	00	Launch and entry suits checked out
12/16/01	09:19 AM	10	16	00	Reaction control system hotfire test
12/16/01	09:19 AM	10	16	00	Dezhurov exercises
12/16/01	09:34 AM	10	16	15	Maneuver to Starshine deploy attitude
12/16/01	10:02 AM	10	16	43	Starshine deploy
12/16/01	11:19 AM	10	18	00	Deorbit review
12/16/01	11:49 AM	10	18	30	PAO event: CDR, ISS-3
12/16/01	11:49 AM	10	18	30	Tani exercises
12/16/01	12:44 PM	10	19	25	Crew meal
12/16/01	01:44 PM	10	20	25	Crew off duty time begins

12/16/01	02:14 PM	10	20	55	Gorie exercises
12/16/01	02:44 PM	10	21	25	Dezhurov exercises
12/16/01	03:19 PM	10	22	00	Culbertson exercises
12/16/01	03:49 PM	10	22	30	Tyurin exercises
12/16/01	04:19 PM	10	23	00	Recumbant seat installation
12/16/01	04:19 PM	10	23	00	Kelly exercises
12/16/01	04:39 PM	10	23	20	Laptop computer breakdown
12/16/01	05:19 PM	11	00	00	Ergometer stow
12/16/01	05:34 PM	11	00	15	KU-band antenna stow
12/16/01	08:19 PM	11	03	00	Crew sleep begins
12/17/01	04:19 AM	11	11	00	Crew wakeup
12/17/01	06:54 AM	11	13	35	Group B computer powerup
12/17/01	07:14 AM	11	13	55	Inertial measurement unit alignment
12/17/01	07:09 AM	11	13	50	Printer stow
12/17/01	07:29 AM	11	14	10	Laptop computer stow (part 2)
12/17/01	07:39 AM	11	14	20	GIRA stow
12/17/01	07:54 AM	11	14	35	Begin deorbit prep timeline
12/17/01	11:49 AM	11	18	30	Deorbit ignition (orbit 185)
12/17/01	12:54 PM	11	19	35	Landing (orbit 186)

**Compiled by William Harwood**