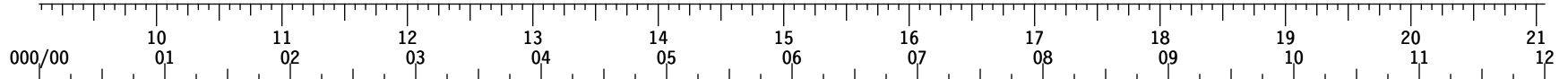


SUMMARY TIMELINE

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GMT 07/12/01
 BETA ANG = +27
 MET Day 000



CDR/R2 S. LINDSEY	FD01	POST INSERTION	AFT CO	ELEV PK	OMS BURN	ZLV - XVV	PRE SLEEP	PMC - A/G	PRE SLEEP	SLEEP			
PLT/IV C. HOBAUGH	L A U N C H O M S - 2	POST INSERTION	TEPC PWR		OMS BURN		GRPRDN	PRE SLEEP	HTR RCFG	PRE SLEEP	SLEEP		
MS1/EV1 M. GERNHARDT		POST INSERTION	SEE S/U		GIRA INSTALL		ICBACT	PRE SLEEP		SLEEP			
MS2/R1 J. KAVANDI		POST INSERTION	APCUACT*	RMS*	OMS BURN		PRE SLEEP	GRPRDN	PRE SLEEP	APCU DCT*	PRE SLEEP	DSO 634*	SLEEP
MS3/EV2 J. REILLY		POST INSERTION	PGSC SETUP		MWIS S/U		PRE SLEEP				SLEEP		
ORB ATT DAY/NIGHT ORBIT		ASCENT	ZLV - YVV		NC1		ZLV - XVV						
TDRS	47 171												
NOTES				*LTA HTR ACT *ON-ORBIT INIT				*LTA HTR DEACT * INITIAL SETUP					

GMT 07/12/01
 BETA ANG = +25
 MET Day 000

	12	13	14	15	16	17	18	19	20	21	22	23	09001/00											
FD02 CDR/R2 S. LINDSEY	SLEEP	DSO 493	POST SLEEP	OIU ACT	NC2 LOAD DAPS	OMS BURN	RMS C/O	MINN VRT H20	WAS SITE	WAS SITE	-ZLV -XVV	RMS PWRD N	MEAL	CTE CRM #1	OSVS C/O	OSVS C/O	+X RCS BURN	-ZLV -XVV	FILTER CLEAN	FC PRG	FM CON IT #2	CI WN IT	EX ER CI SE	
PLT/IV C. HOBAUGH	SLEEP	DSO 493	POST SLEEP	CRYO 02 SNSR CK	ERGO S/U	EMU C/O 1,2		H2O CWC S/U FILL #1		MEAL	EMU C/O 3	P/TV06 SSV S/U	EXERCISE	P/TV20 S/U (RNDZ)										
MS1/EV1 M. GERNHARDT	SLEEP	POST SLEEP	REF BA-I	A/L PREP	EMU C/O 1,2		CC S/AO - CCA L		MEAL	EMU C/O 3	EMU PREP	PP G/ TV C O S /U	P/TV19 CTR LINE CM	ODS RING EXT	EXERCISE									
MS2/R1 J. KAVANDI	SLEEP	6 3 4	POST SLEEP	APCU ACT*	POST SLEEP	RMS HTTR	FRED SETUP	OMS BURN	RMS PWR UP	RMS C/O	WASTE DUMP SURVEY	PLB SURVEY	RMS PWR D N	MEAL	P/TV07 OSVS S/U	OSVS C/O	OSVS P D	+X RCS BURN	RNDZ PGSC S/U	ODS RING EXT	RNDZ TOOLS C/O	P/TV20 S/U (RNDZ)		
MS3/EV2 J. REILLY	SLEEP	POST SLEEP	HL/ P GT I	A/L PREP	EMU C/O 1,2		HL/ P GT I		MEAL	EMU C/O 3	HL/ P GT I	EXERCISE	RNDZ PGSC S/U	RNDZ TOOLS C/O										
ORB ATT DAY/NIGHT	-ZLV -XVV		NC2		RMS DUMP		-ZLV -XVV		-ZLV -XVV		-ZLV -XVV				-ZLV -XVV									
ORBIT	9	10	11	12	13	14	15	16	17															
TDRS	47	171	* LTA HEATER ACT																					
NOTES																								

GMT 07/13/01
 BETA ANG = +22
 MET Day 001

001/00

10 01 11 02 12 03 13 04 14 05 15 06 16 07 17 08 18 09 19 10 20 11 21 12

CDR/R2 S. LINDSEY	EXERCISE	+X RCS BURN	NCZ LV - XVV	PMC OCA	FUT LD MNV	PRE SLEEP	SLEEP (7.5)	-	S
								Z	I
PLT/IV C. HOBAUGH	P/TV20 S/U (RNDZ)	+X RCS BURN	CT WE CR #M 2			PRE SLEEP	SLEEP (7.5)	DSO	PS
								493	OL
MS1/EV1 M. GERNHARDT	P/TV18 WVS S/U					PRE SLEEP	SLEEP (7.5)		POST
									SLEEP
MS2/R1 J. KAVANDI	EXERCISE					PRE SLEEP	SLEEP (7.5)	DSO	PS
								634	OL
MS3/EV2 J. REILLY	P/TV18 CAM S/U	HL P G T				PRE SLEEP	SLEEP (7.5)		POST
									SLEEP
ORB ATT									
DAY/NIGHT									
ORBIT	17	18	19	20	21	22	23	24	
TDRS	47 171								
NOTES									

STS-104/7A JOINT MSN SHORT TERM PLAN

MET Day 001 12 13 14 15 16 17 18 19 20 21 22 23 002/00
 GMT 07/13/01 22 23 07/14 01 02 03 04 05 06 07 08 09

STS EVENT * NH NC4 ISS RNDZ OPS #BAR ⊕ ♦ ®

ISS A/L

ISS SYSTEMS
 C-COCB-MODE
 Φ-COCB-MODE

DPC
 IDPC

ISS OPERATIONS
 C&T-PRE ARRIVAL-CNFG
 ACS-CCDB PARAM-U/D
 ISS-MODE PROX-XTION
 ACS-ATT-CCDB-INC
 ISS-EPS-DOCK CNFG
 ACS-PRE-ARVL-CNFG
 PPS-SA-FTHR
 C&DH-DOCK-CNFG
 ACS-POST-ARVL-CNFG
 ACS-ST/CMG ATT-H/O
 PPS-SA-SUN-TRK
 C&T-POST ARRIVAL-CNFG
 ISS-MODE STND-XTION
 SBD-KEY-CHG

ISS SUPPORT
 C-COCB-CHTR CM-ΦГБ
 СУДН-ОГНИ-ОН
 C-COCB-FTHR
 Φ-COCB-FTHR
 СЗП-АБ-PARTIAL CHRГ

ISS COMMUNICATIONS
 DPC
 ISS GO TI
 C&T-COMM CNFG-VERIFY
 PPS-SA-FTHR
 ISS GO FOR APPROACH
 ISS GO FOR DOCK
 ACS-ST/CMG ATT-H/O
 SSRMS-AVU-OPS

ISS ATT
 BIAS +ZLV +XVV TEA

ISS Mode
 Standard Prox Ops Standard

ISS	DAY/NIGHT	25		26		27		28		29		30		31		32	
	DAILY ORBIT	14	15	1	2	3	4	5	6								
	TDRS	ISS S-BD		ISS KU													

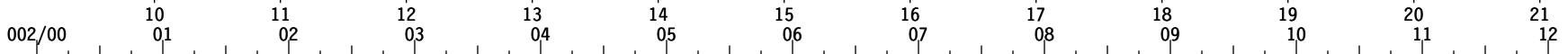
RS GND *POST SLEEP *VERIFY SM COMM PANEL CONFIG 1 ⊕MNV -XLV +ZVV ⊗MIDDECK-EQUIP-TRANS

NOTES
 * 1/17:48 ♦ ODS PREP FOR INGR *VERIFY SM COMM PANEL CONFIG 2
 2-7 FLT PLN/104/FIN

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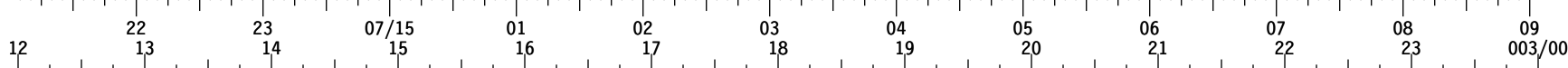
SSRMS-AVU

GMT 07/14/01
 BETA ANG = +17
 MET Day 002



		10	11	12	13	14	15	16	17	18	19	20	21	
S T S	FD03 CDR/R2 S. LINDSEY	MDDK EQUIP XFER	I N G T R S M	P R E P	10.2 D E P R E S S	C N F G	P R E S L E E P	P M C O C A	P R E S L E E P				S L E E P	
	PLT/IV C. HOBAUGH	MDDK EQUIP XFER	P I N B I T		P R E S L E E P		P T E R M		P R E S L E E P				S L E E P	
	MS1/EV1 M. GERNHARDT		P I N B I T	P G T C O	P R E S L E E P		P T E R M		P R E S L E E P				S L E E P	
	MS2/R1 J. KAVANDI	M E X D Q F D U E K I R P	X F F E R T G	I E N G T R S M	P R E P	10.2 D E P R E S S	C N F G	X B F R E I R E F		P R E S L E E P				S L E E P
	MS3/EV2 J. REILLY		P I N B I T	P G T C O	P R E S L E E P		P T E R M		P R E S L E E P				S L E E P	
I S S	ISS CDR Y.USACHEV	♦	I E N G T R S M	ISS STOW	R E P O R T P R E P	D P C		P R E S L E E P					S L E E P	
	FE-1 J. VOSS	M E X D Q F D U E K I R P	®		ISS STOW		D P C	P R E S L E E P					S L E E P	
	FE-2 S. HELMS	MDDK EQUIP XFER			ISS STOW		D P C	P R E S L E E P					S L E E P	
S T S	DAY/NIGHT	[Shaded bars indicating day/night cycle]												
	ORBIT	32	33	34	35	36	37	38	39	40				
	DAILY ORBIT	6	7	8	9	10	11	12	13	14				
S	TDRS	47												
	171		♦		♦		♦		♦					
ORB ATT		BIAS -XLV +ZVV												
ISS ATT		BIAS +ZLV +XVV TEA												
NOTES		♦MDDK PREP ⊕MDDK PREP ♦EORIGISG												

GMT 07/14/01
 BETA ANG = +15
 MET Day 002



Station	12	13	14	15	16	17	18	19	20	21	22	23	0900									
STS	FD04 CDR/R2 S. LINDSEY DSO 493	POST SLEEP	PM C - A / G	POST SLEEP	MAINT	CIWNCT #3	P/TV 21A EVA S/U	CTWCR #3	P/TV 21A EVA OPS	← DAPA 13	ICBC 5	EXERCISE	APCU*	→ R/TV21A EVA OPS								
	PLT/IV C. HOBAUGH DSO 493	POST SLEEP	EVA PREP	EMU PURGE & P/B	← EVA 1 (7:00) →																	
	MS1/EV1 M. GERNHARDT	POST SLEEP	EVA PREP	EMU PURGE & P/B	ALDEP	PDOP/TEG	EVA SETUP	PCBM COVER REMOVE	LTA JMPR RMV	EVA 1 CLEANUP	INGRS	WAIT IN AIRLOCK	EGRESS	SCITBNSPECT	MV TO POSN	MATE AL/N1 JMPR	EVA 1 CLEANUP					
	MS2/R1 J. KAVANDI 634	POST SLEEP	RMS HTR	OSVSRMWRUP	PAD INSTL	RMS EVA SUPPORT				VIEW AIRLOCK UNBERTH	VIEW AIRLOCK INSTALL				RPMSRDN	OPSVRDN						
	MS3/EV2 J. REILLY	POST SLEEP	EVA PREP	EMU PURGE & P/B	ALDEP	PDOP/TEG	EVA SETUP	TOWEL BAR INSTL	LTA JMPR RMV	EVA 1 CLEANUP	INGRS	WAIT IN AIRLOCK	EGRESS	SCITBNSPECT	MV TO POSN	WKST S/U (ONTO)	EVA 1 CLEANUP					
ISS	ISS CDR Y. USACHEV	POST SLEEP	DPC WORK PREP	DAILY STATUS CK	⊕	EXERCISE	COM*	ISTOW	MEAL	IMAX	EXERCISE	APVRDN	J612#	PLNRVW								
	FE-1 J. VOSS	POST SLEEP	DPC WORK PREP	EXERCISE - CEVIS			HCH^	PD EPTA \$L	IMAX S/U	AVU*	IMAX S/U	MEAL	IMAX	MATE	AVU OPS	SSRMS OPS	CPT R1	CPT R2	◆	CBM BOLT LOAD	PLNRVW	
	FE-2 S. HELMS	POST SLEEP	DPC WORK PREP	EXERCISE - TVIS			SRVY	ACBMRING VIEW	SJ END	MEAL	GRAPL	A/L UNBERTH	MNVR TO PRE-INSTL	AVU OPS	MNVR TO RTL POSN	LIMP	BRAKE	⊗	THRSIT	STOW*	DRT E	V P / D D E Q
STS	DAY/NIGHT	[Visual representation of day/night cycle]																				
	ORBIT	40	41	42	43	44	45	46	47	48												
STS	DAILY ORBIT	14	15	16	1	2	3	4	5	6												
	TDRS	47	171	[Visual representation of TDRS events]																		
ORB ATT	BIAS -XLV +ZVV																					
ISS ATT	BIAS +ZLV +XVV TEA																					
NOTES	⊙CFO CNKY																					
	^C\$DEPLOY PETAL COVERS * DEACTIVATION *VERIFY SM COMM PANEL CONFIG 2 *P/U																					
*ICBC OPS 7 ◆ACQ 16 BOLTS ⊙UNGRAP #ENA *SSRMS																						

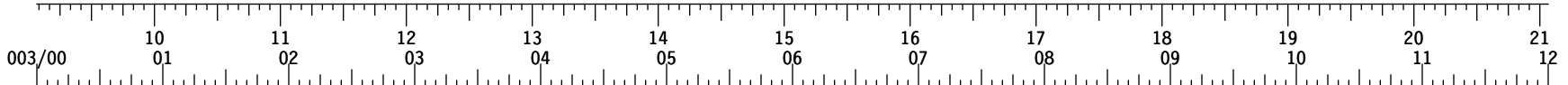
STS-104/7A JOINT MSN SHORT TERM PLAN

FD04

MET	Day 002	12	13	14	15	16	17	18	19	20	21	22	23	003/00
GMT	07/14/01	22	23	07/15	01	02	03	04	05	06	07	08	09	

STS EVENT		EVA 1 A/L INSTALL
ISS A/L		
OUI	OUI FRMT CHANGE 3.1C	OUI FRMT CHANGE 3.1C
DPC	DPC	DPC
SBD	C&DH-MSD-DUMP	C&DH-MSD-DUMP
SBD	KU-BAND-VBSP-CNFG VDS-AUTO RTE/DRTE NODE1-ACBM-PREP C&T-UHF1-ACT & CNFG AUDIO CONFIG FOR UHF EPS-EVA-SAFING SBD-KEY-CHG	KU-BAND-VBSP-CNFG VDS-AUTO RTE/DRTE NODE1-ACBM-PREP C&T-UHF1-ACT & CNFG AUDIO CONFIG FOR UHF EPS-EVA-SAFING
SBD	DPC	HSBD-KEY-CHG
SBD	EVA IHBT PAD	EVA IHBT PAD
SBD	C&T-COMM CNFG-VERIFY	HC&T-COMM CNFG-VERIFY
ISS ATT	BIAS +ZLV +XV V TEA	
ISS Mode	Standard	
DAY/NIGHT		
ORBIT	40	41
DAILY ORBIT	14	15
TDRS	ISS S-BD	ISS KU
RS GND	*VERIFY SM COMM PANEL CONFIG 2	
NOTES		

GMT 07/15/01
 BETA ANG = +13
 MET Day 003



		10:01	10:15	10:30	10:45	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:12		
STS	FD04 CDR/R2 S. LINDSEY	D A P A 1 2	ICBC STAT	14.7 RPRSS	M W I S M V	I N T E R R E S I S M S	PMC OCA	PRE SLEEP										SLEEP																															
	PLT/IV C. HOBAUGH	I N G R E P	A R P L R S S	POST EVA W/O H2O		R E B L U M	I O N	PRE SLEEP										SLEEP SVS GROUND OPS →																															
	MS1/EV1 M. GERNHARDT	I N G R E P	A R P L R S S	POST EVA W/O H2O		B A T T - I		PRE SLEEP										SLEEP																															
	MS2/R1 J. KAVANDI		EXERCISE	PRE SLEEP	I N T E R R E S I S M S	VESTIBULE OUTFIT 1										SLEEP																																	
	MS3/EV2 J. REILLY	I N G R E P	A R P L R S S	POST EVA W/O H2O		H L / P G T *		PRE SLEEP										SLEEP																															
ISS	ISS CDR Y. USACHEV	VEST PRESS	O P E N *	VESTIBULE OUTFIT 1 *										C O M M *	PRE SLEEP	SLEEP																																	
	FE-1 J. VOSS	VEST PRESS	O P E N *	VESTIBULE OUTFIT 1										C O M M *	PRE SLEEP	SLEEP																																	
	FE-2 S. HELMS	*	P 1 / 2 T 1 V	EXERCISE - IRED	R R A M I V	PRE SLEEP	P 1 / 2 T 1 V	D P C	PRE SLEEP	SLEEP																																							
STS	DAY/NIGHT	48		49		50		51		52		53		54		55		56																															
	DAILY ORBIT	6	7	8	9	10	11	12	13	14																																							
STS	TDRS	47	48	49	50	51	52	53	54	55	56																																						
	171	◆																																															
ORB ATT		BIAS -XLV +ZVW																																															
ISS ATT		BIAS +ZLV +XVW TEA																																															
NOTES		*A/L PRE INGR EQP S/U										*VERIFY SM COMM PANEL CONFIG 2																																					
		*N1 STBD HATCH										*A/L INGRS/VEST LEAK CK (STBD HATCH CLOSED)																																					

STS-104/7A JOINT MSN SHORT TERM PLAN

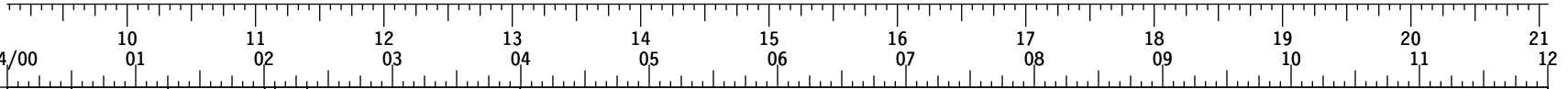
FD04		MET Day 003 003/00																								
		01		02		03		04		05		06		07		08		09		10		11		12		
		10		11		12		13		14		15		16		17		18		19		20		21		
		GMT 07/15/01																								
STS EVENT		*																								
ISS A/L																										
O	OIU FRMAT CHNGE 3C	----- OIU FRMAT CHNGE 3C																								
S																										
S																										
G	DPC	----- DPC																								
K																										
S	VDS-AUTO RTE/DRTE	----- VDS-AUTO RTE/DRTE																								
S	PPS-SA-SUN-TRK	----- PPS-SA-SUN-TRK																								
S	C&T-UHF1-DEACT	----- C&T-UHF1-DEACT																								
S	AUDIO UHF DECONFIG	----- AUDIO UHF DECONFIG																								
S																										
S	C&T-COMM CNFG-VERIFY	----- C&T-COMM CNFG-VERIFY																								
S	DPC	----- DPC																								
C																										
ISS ATT		BIAS +ZLV +XVW TEA																								
ISS Mode		Standard																								
I S S	DAY/NIGHT																									
	ORBIT	48	49	50	51	52	53	54	55	56																
	DAILY ORBIT	6	7	8	9	10	11	12	13	14																
	TDRS ISS S-BD ISS KU																									
RS GND																										
NOTES		*EVA 1 A/L INSTALL *VERIFY SM COMM PANEL CONFIG 2																								

GMT 07/15/01
 BETA ANG = +11
 MET Day 003

12 22 23 07/16 01 02 03 04 05 06 07 08 09
 13 14 15 16 17 18 19 20 21 22 23 004/00

S T S	FD05	CDR/R2 S. LINDSEY	DSO 493	POST SLEEP	H/O ATT	BIAS +ZLV +XVV	REBOOST CONFIG 4	-XLV +ZVV	H/O ATT	VESTIBULE OUTFIT 2	C I W N C I # 5	PAO	MEAL	C T E R M # 5	02 & N2 OTFT N1 A/L	02 SYSTEM PURGE	CLOSE- OUTS		
		PLT/IV C. HOBAUGH	DSO 493	POST SLEEP			P/TVO2 S/U	P/TVO2 OPS		CWC XFER (2)	P P A T O V S O 2 U	PAO	MEAL	C O M M 1	XFER OPS	REPLACE NPRV/IMV *	C I W N C I # 6	C T E R M # 6	
		MS1/EV1 M. GERNHARDT		POST SLEEP	A S P R N T		IMAX S/U			EXERCISE (DTO 262)		PAO	MEAL		EMU H2O RCHG BAG FIL		B A T T - T	EMU L I O H C / O	EMU H 2 O RCHG
		MS2/R1 J. KAVANDI	6 3 4	POST SLEEP			VESTIBULE OUTFIT 2			EXERCISE		VESTIBULE OUTFIT 2		MEAL		02 & N2 OTFT N1 A/L	02 SYSTEM PURGE	N2 SYSTEM PURGE	
		MS3/EV2 J. REILLY		POST SLEEP	A S P R N T		EXERCISE			XFER OPS	C S A - C P * R S P L Y	PAO	MEAL		EMU H2O RCHG BAG FIL			EMU L I O H C / O	EMU H 2 O RCHG
I S S		ISS CDR Y.USACHEV		SLEEP	D P C	W O R E K P			VESTIBULE OUTFIT 2		EXERCISE	L T S @	A/L M D M A C T	MEAL	02 & N2 OTFT N1 A/L	REPLACE NPRV/IMV *	XFER OPS	EXRCSE	
		FE-1 J. VOSS		SLEEP	D P C	W O R E K P	L O P E N * D A I L Y S T A T U S C K		EXERCISE - T V I S		VESTIBULE OUTFIT 2		MEAL	I N A R G S Y S R A C T	L I A N / U P S L D O I O		EXERCISE - IRED		N2 SYSTEM PURGE
		FE-2 S. HELMS		SLEEP	D P C	W O R E K P	P S C W A P		XFER OPS		EXERCISE - IRED	L T S @	A/L M D M A C T	MEAL	I N A R G S Y S R A C T	L I A N / U P S L D O I O	02 SYSTEM PURGE		CLOSE- OUTS
S T S	DAY/NIGHT																		
	ORBIT	56	57	58	59	60	61	62	63	64									
	DAILY ORBIT	14	15	1	2	3	4	5	6	7									
	TDRS	47 171																	
	ORB ATT		BIAS -XLV +ZVV	BIAS +ZLV +XVV	BIAS -XLV +ZVV														
	ISS ATT		BIAS +ZLV +XVV TEA	BIAS +XLV -ZVV	BIAS +ZLV +XVV TEA														
	NOTES			*TERM	* ACT/DEACT													* NODE STBD FWD & AFT	
				* OVERNIGHT LEAK CHECK COMPLETE	@A/L LIGHT ACT													@A/L LIGHT ACT	
				*N1 STBD HATCH	@A/L LIGHT ACT													@A/L LIGHT ACT	

GMT 07/16/01
 BETA ANG = +9
 MET Day 004



S T S	FD05	CLOSE-OUTS	PCP DUCT	N2 SYSTEM PURGE	PMC EOCA	PRE SLEEP	SLEEP		
	CDR/R2 S. LINDSEY								
	PLT/IV C. HOBAUGH	CWC XFER (2)	PCP DUCT			PRE SLEEP	SLEEP		
	MS1/EV1 M. GERNHARDT		RPLC PPRV /MPEV			PRE SLEEP	SLEEP		
	MS2/R1 J. KAVANDI			N2 SYSTEM PURGE	X T F A E R P X B F R I E F	PRE SLEEP	SLEEP		
MS3/EV2 J. REILLY	CLOSE-OUTS				PRE SLEEP	SLEEP			
I S S	ISS CDR Y.USACHEV	EXRCSE	RPLC PPRV /MPEV	REPORT PREP	PLN RVW	T A S K * DPC	PRE SLEEP	SLEEP	
	FE-1 J. VOSS					N1 MPEV IMV LK CK	PRE SLEEP	SLEEP	
	FE-2 S. HELMS		EXERCISE - TVIS		PLN RVW	X T F A E R U P DPC	PRE SLEEP	SLEEP	
S T S	DAY/NIGHT	[Timeline with shaded blocks]							
	ORBIT	64	65	66	67	68	69	70	71
S	DAILY ORBIT	7	8	9	10	11	12	13	14
	TDRS	47 171							
ORB ATT		BIAS -XLV +ZVV							
ISS ATT		BIAS +ZLV +XVV TEA							
NOTES		*RADIAL PORT CLOSEOUT INSTALL *ASSEM TASK SUM *N1 STBD HATCH							

ISS EXTERNAL SURVEY →

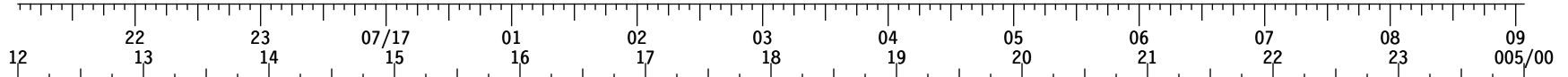
STS-104/7A JOINT MSN SHORT TERM PLAN

FD05

MET Day 004 004/00 01 02 03 04 05 06 07 08 09 10 11 12
 GMT 07/16/01 10 11 12 13 14 15 16 17 18 19 20 21

STS EVENT		PRE SLEEP		SLEEP				
ISS A/L								
ISS								
DAILY PLANNING CONF	DAILY PLANNING CONF							
C&DH-A/L ERB-DUMP C&DH-A/L MDM PPL-U/L C&DH-INT MDM PPL-U/L	C&DH-A/L ERB-DUMP C&DH-A/L MDM PPL-U/L C&DH-INT MDM PPL-U/L							
ISS								
DAILY PLANNING CONF	DAILY PLANNING CONF							
ISS ATT	BIAS +ZLV +XVV TEA							
ISS Mode	Standard							
DAY/NIGHT								
ORBIT	64	65	66	67	68	69	70	71
DAILY ORBIT	7	8	9	10	11	12	13	14
ISS S-BD TDRS ISS KU								
RS GND								
NOTES								

GMT 07/16/01
 BETA ANG = +7
 MET Day 004



GMT	07/16/01	22	23	07/17	01	02	03	04	05	06	07	08	09											
BETA ANG	= +7																							
MET	Day 004	12	13	14	15	16	17	18	19	20	21	23	005/00											
STS	FD06 CDR/R2 S. LINDSEY	DSO 493	POST SLEEP		FILTER CLEANING	H/O ATT	DTO 261	-XYLVV	SIN VOT	CLB IN #	STE RM	HR CNFG	-XZLVV	H/O ATT	MEAL	PAO	COMM 2	CTWRM #8	EXERCISE	EVA 2 PROCEDURE RVW				
	PLT/IV C. HOBAUGH	DSO 493	POST SLEEP		C I W N C I T # 7	P/TV24 S/U	P/TV24 OPS	EXERCISE		XFER OPS			MEAL	P S / T U V O 2	PAO	BCA ACT	ISS EVA PREP DRY RUN		P/TV18 CAM S/U	EVA 2 PROCEDURE RVW				
	MS1/EV1 M. GERNHARDT		POST SLEEP	PFC	PS O L S T E P	RPLC PPRV /PEV	POST SLEEP	EVA TOOL S/U	MDDK PREP	S U A N F S E T R O W	S C A F O F E R	← SCU INSTALL		P S A A C T		EVA H/W C/O		IRU ACT & C/O	COM ACT & C/O	U I A A C T	MEAL	ISS EVA PREP DRY RUN		EVA 2 PROCEDURE RVW
	MS2/R1 J. KAVANDI	634	POST SLEEP		SD INSTL		RELOCATE IV HATCH		C T W E R M # 7		← SCU INSTALL		P S A A C T		EVA H/W C/O		IRU ACT & C/O	COM ACT & C/O	U I A A C T	MEAL	C I W N C I T # 8	EXERCISE	P/TV22 S/U	EVA 2 PROCEDURE RVW
	MS3/EV2 J. REILLY		POST SLEEP		EVA EQUIP XFER	EVA TOOL S/U	MDDK PREP	S U A N F S E T R O W	S C A F O F E R	← SCU INSTALL		P S A A C T		EVA H/W C/O		IRU ACT & C/O	COM ACT & C/O	U I A A C T	MEAL	ISS EVA PREP DRY RUN		EVA 2 PROCEDURE RVW		
ISS	ISS CDR Y.USACHEV		POST SLEEP	DPC	WORK PREP	IWIS S/U	EXERCISE - TVIS	C&DH-PL2 MDM-R&R	N1-THERM QD MIT-INST	XFER OPS	PMC	MEAL		PAO	RAIL RMV				EVA 2 PROCEDURE RVW					
	FE-1 J. VOSS		POST SLEEP	DPC	W P O R E P	RPLC PPRV /PEV	N1 PEV LK CK	IMV DUCT	RELOCATE IV HATCH	⊕	EXERCISE - TVIS	PMC	MEAL		A/L CC S/U	♦ ISS EVA PREP DRY RUN		EVA 2 PROCEDURE RVW						
	FE-2 S. HELMS		POST SLEEP	DPC	WORK PREP	EVA EQUIP XFER	SD INSTL	RELOCATE IV HATCH	DAILY STATUS CK	EXERCISE - IRED		PMC	MEAL		NPRV RMV		EXERCISE - CEVIS		EVA 2 PROCEDURE RVW					
STS	DAY/NIGHT	[Bar chart showing day/night cycle]																						
	ORBIT	72	73	74	75	76	77	78	79															
STS	DAILY ORBIT	15	16	1	2	3	4	5	6															
	TDRS	47	171	[Timeline with diamond markers]																				
ISS	ORB ATT	BIAS -XLV +ZVV				FREE	BIAS -XLV +YVV				BIAS -XLV +ZVV													
	ISS ATT	BIAS +ZLV +XVV TEA				FREE	BIAS +ZLV +YVV				BIAS +ZLV +XVV TEA													
NOTES	*N1 STBD HATCH				♦EVA EQUIP XFER				♦A/L VIDEO CC C/O															
					⊕EVA EQUIP XFER				#TEMP															

STS-104/7A JOINT MSN SHORT TERM PLAN

FD06

MET Day 004 12 13 14 15 16 17 18 19 20 21 22 23 005/00
 GMT 07/16/01 22 23 07/17 01 02 03 04 05 06 07 08 09

STS EVENT	POST SLEEP		♣
ISS A/L		RELOCATE IV HATCH	
O D S S			
K U			
S B D	ACS-N1 IMV FAN-ACT THC-N1 IMV VLV-RCNFG SBD-KEY-CHG	IACS-N1 IMV FAN-ACT ITHC-N1 IMV VLV-RCNFG	HSBD-KEY-CHG
R S S C S	ACS-IV HATCH-LK CK		IACS-IV HATCH-LK CK
I S S	ISS ATT	BIAS +ZLV +XVV TEA	BIAS +ZLV +YVV
	ISS Mode	-FREE-	Standard
	DAY/NIGHT	BIAS +ZLV +XVV TEA	
	ORBIT	72	73
	DAILY ORBIT	15	16
	ISS S-BD	74	75
	TDRS	1	2
	ISS KU	76	77
		3	4
		78	79
		5	6
R S G N D			*N1 STBD HATCH ♣PAO OPPTY
N O T E S			

GMT 07/17/01
 BETA ANG = +5
 MET Day 005

005/00 10 01 11 02 12 03 13 04 14 05 15 06 16 07 17 08 18 09 19 10 20 11 21 12

S T S	FD06 CDR/R2 S. LINDSEY	CWC XFER (2)	ING TRSM	PREP	10.2 DEPRESS	CNFG	PRE SLEEP	PMCOA	PRE SLEEP	SLEEP							
	PLT/IV C. HOBAUGH	PI /N BIT	PRE SLEEP			PT /E BRM	PRE SLEEP			SLEEP							
	MS1/EV1 M. GERNHARDT	PI /N BIT	PGT C/O	PRE SLEEP			PT /E BRM	PRE SLEEP			SLEEP						
	MS2/R1 J. KAVANDI	PS RL EEP	XB FR EIR EF	ING TRSM	PREP	10.2 DEPRESS	CNFG	XT FA GUR UP	XB FR EIR EF	PRE SLEEP	SLEEP						
	MS3/EV2 J. REILLY	PI /N BIT	PGT C/O	PRE SLEEP			PT /E BRM	PRE SLEEP			SLEEP						
I S S	ISS CDR Y.USACHEV	02 N2 XFR TRM	EXERCISE			REPORT PREP	DPC	PRE SLEEP			SLEEP						
	FE-1 J. VOSS	EXERCISE - IRED			PRE SLEEP	XT FA GUR UP	DPC	PRE SLEEP			SLEEP						
	FE-2 S. HELMS	ING TRSM			PRE SLEEP	DPC	PRE SLEEP			SLEEP							
S T S	DAY/NIGHT	[Timeline with shaded blocks]															
	ORBIT	79	80		81		82		83		84		85		86		87
S	DAILY ORBIT	6	7		8		9		10		11		12		13		14
	TDRS	47 171	[Timeline with diamond markers]														
ORB ATT		BIAS -XLV +ZVV															
ISS ATT		BIAS +ZLV +XVV TEA															
NOTES																	

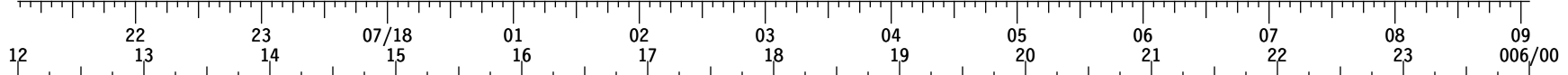
STS-104/7A JOINT MSN SHORT TERM PLAN

FD06

MET Day 005 005/00 01 02 03 04 05 06 07 08 09 10 11 12
 GMT 07/17/01 10 11 12 13 14 15 16 17 18 19 20 21

STS EVENT		*	⊕		PRE SLEEP		SLEEP
ISS A/L							
O							
D							
S							
S							
K							
G							
U							
D							
S							
B							
D							
R							
S							
S							
C							
ISS ATT	BIAS +ZLV +XVV TEA						
ISS Mode	Standard						
DAY/NIGHT	[Black bars indicating day/night cycle]						
ORBIT	79	80	81	82	83	84	85
DAILY ORBIT	6	7	8	9	10	11	12
TDRS							
ISS S-BD							
ISS KU							
RS GND							
NOTES	*ISS EGRESS ⊕10.2 CAB DEPR						

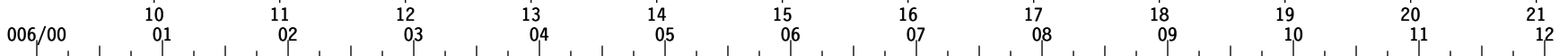
GMT 07/17/01
 BETA ANG = +3
 MET Day 005



Station	12	13	14	15	16	17	18	19	20	21	22	23	0900/00									
STS	FD07 CDR/R2 S. LINDSEY DSO 493	POST SLEEP		P M C - A / G	POST SLEEP	I P H A D T	P E / T A V S / U	EXERCISE	C I N C I T # 9	I C B C # 8		C T E R M # 9	MEAL	I C B C # 9		C I N C I T # 10		S L P H T R	C T E R M # 10	14.7 RPRSS	H / O A T T	-XLV -ZVV
	PLT/IV C. HOBAUGH DSO 493	POST SLEEP			EVA PREP	EMU PURGE & P/B	A L D E P	EVA2 (5:30) IVA EVA 2 SUPPORT										A R / L R S S	POST EVA W/H2O			
	MS1/EV1 M. GERNHARDT	POST SLEEP			EVA PREP	EMU PURGE & P/B	A L D E P	P D O P / E G	E V A S U	ONTO 1 INSTALL	ONTO 4 INSTALL	FRGF & TRUN CVR INSTL	EVA CLEAN- UP	I P N R G E R / S R E P	A R / L R S S	POST EVA W/H2O						
	MS2/R1 J. KAVANDI DSO 634	POST SLEEP		R M S V S / H T R P U		R P M W S R U P	EXERCISE	A / L E G R S P O S N	RMS EVA SUPPORT										R P M W S R D N	O P S V R S D N		
	MS3/EV2 J. REILLY	POST SLEEP			EVA PREP	EMU PURGE & P/B	A L D E P	P D O P / E G	E V A S / U	ONTO 1 INSTALL	ONTO 4 INSTALL		EVA CLEAN- UP	I P N R G E R / S R E P	A R / L R S S	POST EVA W/H2O						
ISS	ISS CDR Y.USACHEV	POST SLEEP	D P C	W O R K P R E P	C R L P R S	A/ L C L O S E O U T R E P L A C E	I M A X S / U	C O M M A	EXERCISE	IVA EVA SUPPORT	MEAL	IVA EVA SUPPORT	EXERCISE									
	FE-1 J. VOSS	POST SLEEP	D P C	W O R K P R E P	C R L P R S	A/ L C L O S E O U T R E P L A C E	EXERCISE - IRED		SSRMS OPS	O A N C T T O 1	MEAL	SSRMS O P S	O A N C T T O 4	SSRMS OPS	ORCA INSTALL							
	FE-2 S. HELMS	POST SLEEP	D P C	W O R K P R E P		EXERCISE - IRED	S V I R D M E S O	O G N R T A O P I L	O U N N T B O R T	H/O P O S N & U N G R P L	O G N R T A O P 4 I L	O U N N T B O R T	H/O P O S N & U N G R P L	MEAL	SSRMS S T O W	D R I V E / D D E O	ORCA INSTALL					
STS	DAY/NIGHT	[Timeline bars for Day/Night]																				
	ORBIT	87	88	89	90	91	92	93	94	95												
S	DAILY ORBIT	14	15	1	2	3	4	5	6	7												
	TDRS	47 171	[Timeline bars for TDRS]																			
ORB ATT		BIAS -XLV +ZVV																				
ISS ATT		BIAS +ZLV +XVV TEA																				
NOTES		*VERIFY SM COMM PANEL CONFIG 3																				

*CWC XFER

GMT 07/18/01
 BETA ANG = 0
 MET Day 006



		10	11	12	13	14	15	16	17	18	19	20	21
		01	02	03	04	05	06	07	08	09	10	11	12
S T S	FD07 CDR/R2 S. LINDSEY	REBOOST CONFIG 3	-XLV +ZVV	H/O ATT	PRE SLEEP	PMC OCA	PRE SLEEP					SLEEP	
	PLT/IV C. HOBAUGH	POST EVA W/H2O	RE BA TT - I		PRE SLEEP							SLEEP	
	MS1/EV1 M. GERNHARDT	POST EVA W/H2O	EMU LHOH C/O		PRE SLEEP							SLEEP	
	MS2/R1 J. KAVANDI	CWC XFER (2)	I I N N T G E R R E I S M S	X X F A F A R E R U R E I F	PRE SLEEP							SLEEP	
	MS3/EV2 J. REILLY	POST EVA W/H2O	EMU LHOH C/O	H L / P G T *	PRE SLEEP							SLEEP	
I S S	ISS CDR Y. USACHEV	* PL IDC QUEST	02 N2 XFRM	C O M M * REPORT PREP	D P C		PRE SLEEP					SLEEP	
	FE-1 J. VOSS	ORCA INSTALL	⊕	EXERCISE - CEVIS	D P C		PRE SLEEP					SLEEP	
	FE-2 S. HELMS	ORCA INSTALL		EXERCISE - TVIS	D P C		PRE SLEEP					SLEEP	
S T S	DAY/NIGHT	[Bar chart showing day/night cycles]											
	ORBIT	95	96	97	98	99	100	101	102	103			
S T S	DAILY ORBIT	7	8	9	10	11	12	13	14	15			
	TDRS	47 171											
ORB ATT		BIAS -XLV +ZVV											
ISS ATT		BIAS +ZLV +XVV TEA											
NOTES		*EXERCISE *VERIFY SM COMM PANEL CONFIG 2 ⊕XFER TAGUP *INIT											

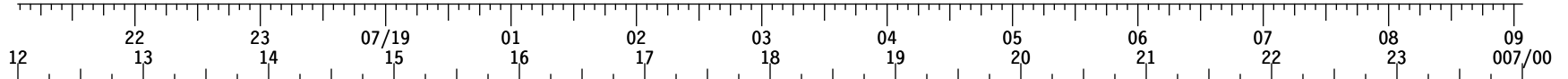
STS-104/7A JOINT MSN SHORT TERM PLAN

FD07

MET Day 006 006/00 01 02 03 04 05 06 07 08 09 10 11 12
 GMT 07/18/01 10 11 12 13 14 15 16 17 18 19 20 21

	STS EVENT		*	PRE SLEEP	SLEEP
	ISS A/L	ORCA INSTALL			
O D S S					
K U					
S B D	C&T-UHF1-DEACT AUDIO UHF DECONFIG	HC&T-UHF1-DEACT AUDIO UHF DECONFIG			
R S S E S C	C&T-COMM CNFG-VERIFY	HC&T-COMM CNFG-VERIFY			
	ISS ATT				
	ISS Mode				BIAS +ZLV +XVV TEA Standard
I S S	DAY/NIGHT				
	ORBIT	95	96	97	98
	DAILY ORBIT	7	8	9	10
	TDRS ISS S-BD				
	ISS KU				
	RS GND				
	NOTES	*MNVR -XLV +ZVV *VERIFY SM COMM PANEL CONFIG 2			

GMT 07/18/01
 BETA ANG = -2
 MET Day 006



S T S	FD08		POST SLEEP				RAM DEPLOY		EXERCISE		SAFER XFER		EVA 3 PROCEDURE RVW		MEAL	CREW PHOTO	CREW CONF	H/O A T T	BIAS +ZLV +XVV	REBOOST CONFIG 4	
	CDR/R2 S. LINDSEY	DSO 493																			
S T S			POST SLEEP				H/L/P/G/T*	R/E/B/A-T	P/F/C	SAFER XFER		EXERCISE		P/TV23 S/U	P/TV23 OPS	EVA 3 PROCEDURE RVW	MEAL	CREW PHOTO	CREW CONF	B A T T - T	OFF DUTY
	PLT/IV C. HOBAUGH	DSO 493																			
S T S			POST SLEEP				A/S/P/R/N	EVA EQUIP XFER	E/M/U PREP	E/M/U XFER	L/S/T T A R A P	S/A/F/E/R C/O	EVA TOOL S/U	E-LK PREP		EVA 3 PROCEDURE RVW	MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXERCISE
	MS1/EV1 M. GERNHARDT																				
S T S			POST SLEEP				XFER OPS				EXERCISE		EVA 3 PROCEDURE RVW		MEAL	CREW PHOTO	CREW CONF	OFF DUTY			
	MS2/R1 J. KAVANDI	634																			
S T S			POST SLEEP				A/S/P/R/N	EVA EQUIP XFER	E/M/U PREP	E/M/U XFER	L/S/T T A R A P	S/A/F/E/R C/O	EVA TOOL S/U	E-LK PREP		EVA 3 PROCEDURE RVW	MEAL	CREW PHOTO	CREW CONF	EXERCISE	OFF DUTY
	MS3/EV2 J. REILLY																				
I S S			POST SLEEP		D/P/C	W/O/R/K P/R/E/P	EXERCISE				OFF DUTY		EVA 3 PROCEDURE RVW		MEAL	CREW PHOTO	CREW CONF	EXERCISE - VELO		OFF DUTY	
	ISS CDR Y.USACHEV																				
	FE-1 J. VOSS					D/A/I/LY S/T/A/T/U/S C/K	E/X/E/R F/I/L/E D/L	EXERCISE - IRED				OFF DUTY		EVA 3 PROCEDURE RVW		MEAL	CREW PHOTO	CREW CONF	OFF DUTY	EXERCISE - TVIS	
S T S			POST SLEEP		D/P/C	W/O/R/K P/R/E/P	XFER OPS				OFF DUTY		EXERCISE - IRED		EVA 3 PROCEDURE RVW		MEAL	CREW PHOTO	CREW CONF	OFF DUTY	OFF DUTY
	FE-2 S. HELMS																				
	DAY/NIGHT																				
S T S			ORBIT		103	104	105				106		107		108		109	110	8		
	DAILY ORBIT																				
S T S			TDRS		47	171															
	ORB ATT																				
S T S			BIAS -XLV +ZVV																		
	ISS ATT		BIAS +ZLV +XVV TEA																		
S T S			*TERM																		
	NOTES		*INSTALL																		
			*CMS-TVIS WEEKLY-TO																		

STS-104/7A JOINT MSN SHORT TERM PLAN

FD08

MET Day 006 12 13 14 15 16 17 18 19 20 21 22 23 007/00
 GMT 07/18/01 22 23 07/19 01 02 03 04 05 06 07 08 09

STS EVENT	POST SLEEP		*	MEAL	CREW PHOTO	⊕	
ISS A/L							
DAILY PLANNING CONF	--- DAILY PLANNING CONF						
SBD-KEY-CHG	--- SBD-KEY-CHG						
DAILY PLANNING CONF	--- DAILY PLANNING CONF						
ISS ATT	--- BIAS +ZLV +XVV TEA					--- BIAS +XLV -ZVV	
ISS Mode	--- Standard						
DAY/NIGHT	---						
ORBIT	103	104	105	106	107	108	109
DAILY ORBIT	15	1	2	3	4	5	6
TDRS ISS S-BD							
ISS KU							
RS GND							
NOTES	*EVA 3-PROCEDURE-RVW ⊕CREW CONFERENCE						

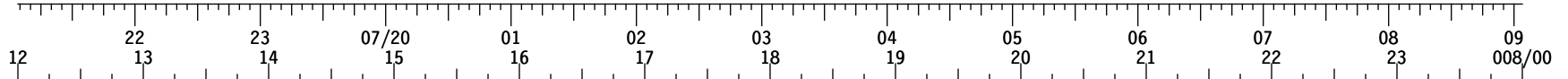
STS-104/7A JOINT MSN SHORT TERM PLAN

FD08

MET Day 007 007/00 01 02 03 04 05 06 07 08 09 10 11 12
 GMT 07/19/01 10 11 12 13 14 15 16 17 18 19 20 21

STS EVENT		*	PRE SLEEP	SLEEP				
ISS A/L								
DAILY PLANNING CONF	----- DAILY PLANNING CONF							
ACS-MP PPL-UPDATE ACS-MP PPL-INCORP	----- ACS-MP PPL-UPDATE ----- ACS-MP PPL-INCORP							
DAILY PLANNING CONF	----- DAILY PLANNING CONF							
ISS ATT	----- BIAS +XLV +YVV		----- BIAS +ZLV +XVV TEA					
ISS Mode	----- Standard							
DAY/NIGHT	-----							
ORBIT	111	112	113	114	115	116	117	118
DAILY ORBIT	8	9	10	11	12	13	14	15
TDRS ISS S-BD ISS KU								
RS GND	*MNVR -XLV +ZVV							
NOTES								

GMT 07/19/01
 BETA ANG = -6
 MET Day 007



STS	FD09		P M C - A / G		POST SLEEP		I H A B D T		E V A C C O M M * P E V / T A S / V S / U		EXERCISE		P E V / T A S / V O P S / 2 1 B		ICBC3D OPS 13		MEAL		P / T V 21B OPS ONTO 2 ACT		I C B C 3 D O P S 14-16		O A N T T O 3		S L P H T R						
	CDR/R2 S. LINDSEY	DSO 493	POST SLEEP		POST SLEEP																										
STS	PLT/IV C. HOBAUGH		DSO 493		POST SLEEP		C A B I N R E G		10.2 DPRS EVA PREP		E P M U R G E		E M U P R E B R E A T H E		C L D P R S		P E S G R S D P R		EVA-3 (5:25) I V A E V A 3 S U P P O R T		I P R N R E G P R E S S										
	MS1/EV1 M. GERNHARDT				POST SLEEP				EVA PREP		E P M U R G E		E M U P R E B R E A T H E		C L D P R S		P E S G R S D P R		EVA3 SETUP		O N T O 2 I N S T A L L		O N T O 3 I N S T A L L		L A B L T A C B L S T O W		EVA CLEAN-UP		I P R N R E G P R E S S		
	MS2/R1 J. KAVANDI		634		POST SLEEP				R M S H T R		EXERCISE		O S V S P U		R P M R S U P		X O F F E S		N N A F I R		R M S P W R D N		O S V S P W R D N								
	MS3/EV2 J. REILLY				POST SLEEP				EVA PREP		E P M U R G E		E M U P R E B R E A T H E		C L D P R S		P E S G R S D P R		EVA3 SETUP		O N T O 2 I N S T A L L		O N T O 3 I N S T A L L		F R G F C O V E R I N S T A L L		EVA CLEAN-UP		I P R N R E G P R E S S		
ISS	ISS CDR Y.USACHEV				POST SLEEP		D P C W O R K P R E P		D A I L Y S T A T U S C K		C O M M * EXERCISE VELO		I V A E V A S U P P O R T		M E A L		I V A E V A S U P P O R T		S S R M S O P S												
	FE-1 J. VOSS		D P C W O R K P R E P		POST SLEEP		EVA PREP		EXERCISE - IRED		S S R M S O P S		M E A L		O 2 N A T C T		S S R M S O P S		O 3 N A T C T		I M A X 3 D P A C K & X F E R		I M A X 3 D P A C K & X F E R								
	FE-2 S. HELMS		D P C W O R K P R E P		POST SLEEP		P / T V 114 - I M A X 22-25		EXERCISE - T V I S		V P I / D U E O		O N T O 2 G R A P L		M E A L		O U N N T B O R T		H / O P O S N & U N G R P L		O N T O 3 G R A P L		O U N N T B O R T		H / O P O S N & U N G R P L		S T O W * D R T E O		V P I / D U E O		L A B %
STS	DAY/NIGHT ORBIT				119		120		121		122		123		124		125		126												
	DAILY ORBIT				16		1		2		3		4		5		6		7												
STS	TDRS		47		171																										
	ORB ATT																														
ISS ATT																															
NOTES																															

*CONFIG *VERIFY SM COMM PANEL CONFIG 3 *SSRMS *SSRMS %RWS P/D

STS-104/7A JOINT MSN SHORT TERM PLAN

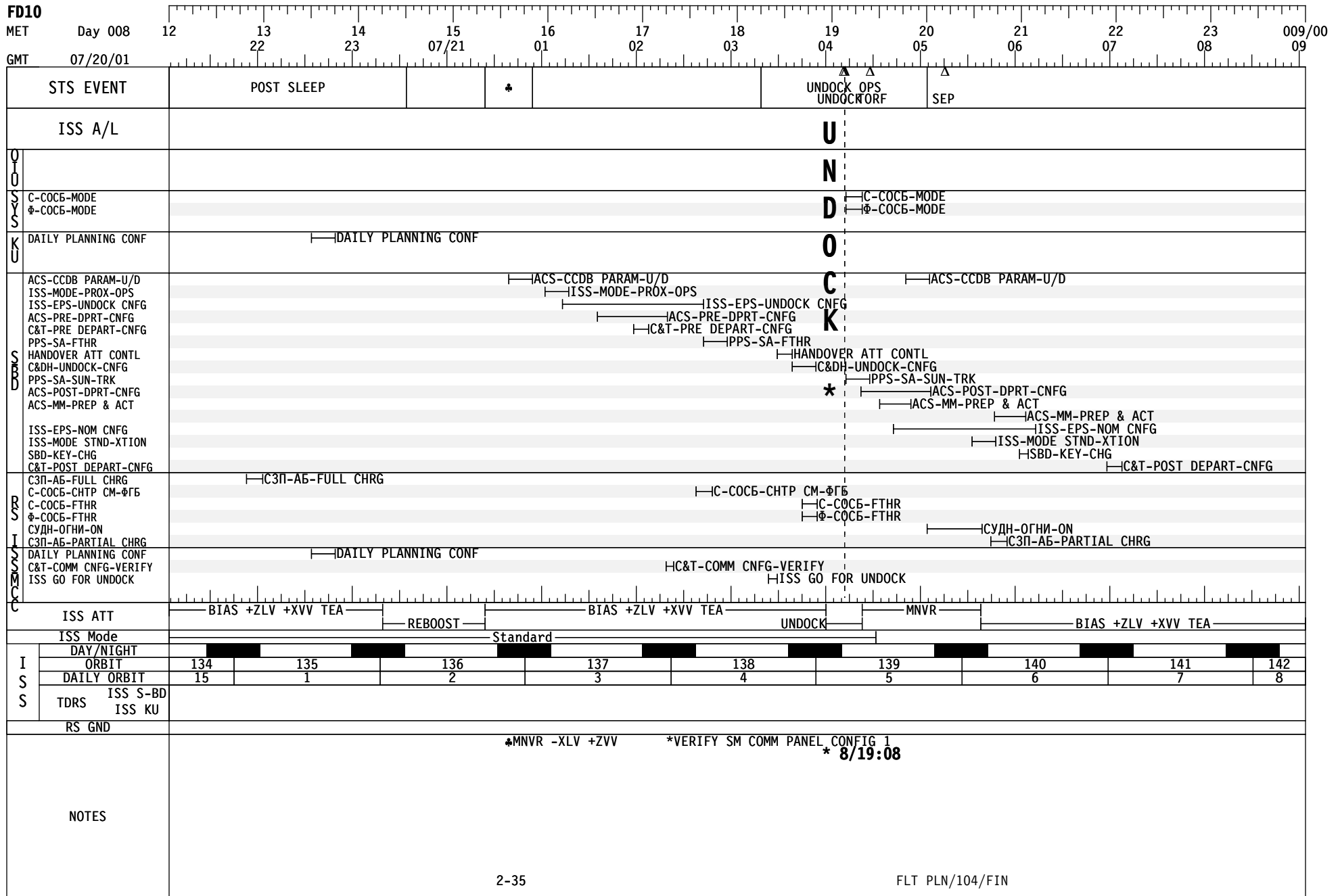
FD09		MET Day 007 12 13 14 15 16 17 18 19 20 21 22 23 008/00											
GMT 07/19/01		22 23 07/20 01 02 03 04 05 06 07 08 09											
	STS EVENT	POST SLEEP							ONTO 2 INSTALL	ONTO 3 INSTALL			
	ISS A/L												
O													
S													
S													
G													
K													
C	C&DH-MSD-DUMP A/L-MAN HTR OPS-INIT C&T-UHF1-ACT & CNFG AUDIO CONFIG FOR UHF A/L-10.2 OPS-TERM EPS-EVA POWERDOWN EPS-EVA-SAFING SBD-KEY-CHG A/L-MAN HTR OPS-TERM	C&DH-MSD-DUMP A/L-MAN HTR OPS-INIT C&T-UHF1-ACT & CNFG AUDIO CONFIG FOR UHF A/L-10.2 OPS-TERM EPS-EVA POWERDOWN EPS-EVA-SAFING SBD-KEY-CHG A/L-MAN HTR OPS-TERM										HSBD-KEY-CHG	A/L-MAN HTR OPS-TERM
D													
B													
A	EVA IHBT PAD C&T-COMM CNFG-VERIFY	EVA IHBT PAD C&T-COMM CNFG-VERIFY										HC&T-COMM CNFG-VERIFY	
C													
X													
E	ISS ATT	BIAS +ZLV +XVV TEA											
N	ISS Mode	Standard											
I	DAY/NIGHT												
S	ORBIT	119	120	121	122	123	124	125	126				
S	DAILY ORBIT	16	1	2	3	4	5	6	7				
S	TDRS ISS S-BD ISS KU												
	RS GND	*VERIFY SM COMM PANEL CONFIG 3											
	NOTES												

GMT 07/20/01
 BETA ANG = -9
 MET Day 008

12 22 23 07/21 01 02 03 04 05 06 07 08 09
 13 14 15 16 17 18 19 20 21 22 23 009/00

S T S	FD10	CDR/R2 S. LINDSEY	DSO 493	POST SLEEP	H/O A/T/T	BIAS +ZLV +XVV	REBOOST CONFIG 4	-XLV +ZVV	H/O A/T/T	FAREWELL	HATCH CLOSE	GP R/P R/B U/P	ODS LEAK CK	H/O A/T/T	UNDOCK UNDOCK OPS	△ TORF	SEP +ZLV +YVV	S I N I M I T	GP R/P R/B D/N	FILTER CLEAN	OFF DUTY	ST I E M R L V O M	- X L V V	OFF DUTY	PAO	
		PLT/IV C. HOBAUGH	DSO 493	POST SLEEP	P C G C K	EMU REC/NFG	EVA EQUIP XFER	EXERCISE	FAREWELL	CTR LINE CM INST			MEAL		UNDOCK OPS		C R E M O V E		GP R/P R/B D/N	GPS OPS 2 TEST	P/TV09 SETUP	P O P S / T V 0 9		OFF DUTY	PAO	
		MS1/EV1 M. GERNHARDT		POST SLEEP	A S P R N	EMU H2O P R C H G B A G F I L	EMU REC/NFG	EVA EQUIP XFER		FAREWELL	P/TV20 SETUP		MEAL		P/TV20/ICBC 14-17										P S / T V 0 2	PAO
		MS2/R1 J. KAVANDI	6 3 4	POST SLEEP		RNDZ PGSC S/U	RNDZ TOOLS C/O		X T F A G E R U P	X B F R E I E R	FAREWELL	HATCH CLOSE	GP R/P R/B U/P	ODS LEAK CK	O S V S P U	UNDOCK OPS		O S V S P D	O D E A C T		EXERCISE	R P M S R D N	P C S S A		OFF DUTY	PAO
		MS3/EV2 J. REILLY		POST SLEEP	A S P R N	RNDZ PGSC S/U	RNDZ TOOLS C/O	EMU XFER	M W I S *		FAREWELL			MEAL		*UNDOCK OPS		P A L C A T I O N	P L A Y B K		OFF DUTY		EXERCISE		OFF DUTY	PFC PAO
I S S		ISS CDR Y.USACHEV		POST SLEEP	DPC	WORK PREP		EXERCISE - VELO	FAREWELL	HATCH CLOSE	C O M M		MEAL		PMA2 DEPART CONFIG					EXERCISE	X B F R E I E R E F	PLN R V W	R E P O R T P R E P	DPC	PRE SLEEP	
		FE-1 J. VOSS		POST SLEEP	DPC	WORK PREP	DAILY STATUS CK	O2 CNFG	N C N F G	X T F A G E R U P	A C L / L O S E	FAREWELL		MEAL						EXERCISE - CEVIS				DPC	PRE SLEEP	
		FE-2 S. HELMS		POST SLEEP	DPC	WORK PREP	*	EXERCISE - TVIS			FAREWELL			MEAL						EXERCISE - IRED			PLN R V W		DPC	PRE SLEEP
S T S	DAY/NIGHT																									
	ORBIT	134	135	136	137	138	139	140	141	142																
	DAILY ORBIT	15	1	2	3	4	5	6	7	8																
	TDRS	47 171																								
	ORB ATT	BIAS -XLV +ZVV			BIAS -XLV +ZVV			FLYAROUND			BIAS +ZLV +YVV			-ZLV -XVV												
	ISS ATT	BIAS +ZLV +XVV TEA			REBOOST			BIAS +ZLV +XVV TEA			MNVR			BIAS +ZLV +XVV TEA												
	NOTES				*C&DH-PCS/SSC A/L-CFG			*DEACT			*VERIFY SM COMM PANEL CONFIG 1			*PCS CONFIG SYS 1												
													* 8/19:08													

STS-104/7A JOINT MSN SHORT TERM PLAN



GMT 07/21/01
 BETA ANG = -11
 MET Day 009

009/00

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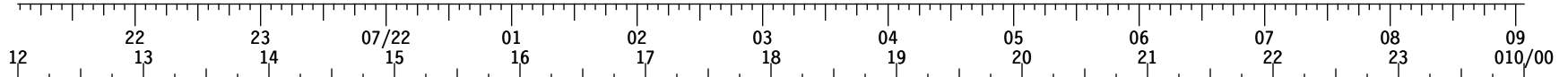
21

<p>FD10 CDR/R2 S. LINDSEY</p>	<p>OFF DUTY</p>	<p>PFC PMC OCA</p>	<p>PRE SLEEP</p>	<p>SLEEP</p>	<p>PS OL SEP T E P DSO 493</p>
<p>PLT/IV C. HOBAUGH</p>	<p>EXERCISE</p>	<p>P C G C K</p>	<p>PRE SLEEP</p>	<p>SLEEP X-38 Visual Attitude Determination Survey →</p>	<p>PS OL SEP T E P DSO 493</p>
<p>MS1/EV1 M. GERNHARDT</p>	<p>POST EVA ENT PREP</p>		<p>PRE SLEEP</p>	<p>SLEEP</p>	<p>POST SLEEP</p>
<p>MS2/R1 J. KAVANDI</p>	<p>OFF DUTY</p>		<p>PRE SLEEP</p>	<p>SLEEP</p>	<p>PS OL SEP T E P 6 3 4</p>
<p>MS3/EV2 J. REILLY</p>	<p>POST EVA ENT PREP</p>		<p>PRE SLEEP</p>	<p>SLEEP</p>	<p>POST SLEEP</p>

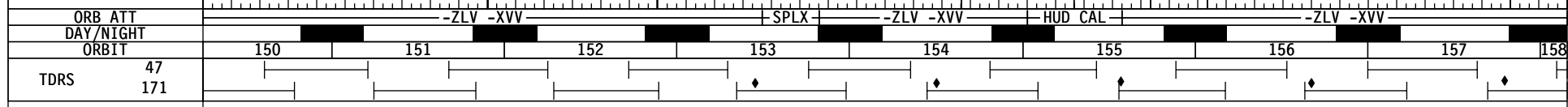
<p>ORB ATT</p>	<p style="text-align: center;">-ZLV -XVV</p>									
<p>DAY/NIGHT</p>										
<p>ORBIT</p>	142	143	144	145	146	147	148	149	150	
<p>TDRS 47 171</p>										

<p>NOTES</p>										
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GMT 07/21/01
 BETA ANG = -13
 MET Day 009



CDR/R2 S. LINDSEY	POST SLEEP	APU HTR ACT	POST SLEEP	FCS C/O	RCS HF	-ZLV -XVV	CABIN STOW	SOP IPT PLY EX	TIG	-ZLV -XVV	PILOT OPS	MEAL	HUD CAL IGN	HUD MNV R	-ZLV -XVV	D/O BRIEF	EXERCISE	CABIN STOW	L-1 COMM CHK
	POST SLEEP			FCS C/O	RCS HF		CABIN STOW	FILTER CLEAN			PILOT OPS	MEAL	HUD MNV R		HUD V ER F	D/O BRIEF	P/TV05 SETUP ENTRY	EXERCISE	
MS1/EV1 M. GERNHARDT	POST SLEEP			P C G C K	CABIN STOW	EXERCISE		CABIN STOW	COMM CNFG		MEAL	CABIN STOW	D/O BRIEF	CABIN STOW			P/TV06 DEACT (SSV)		
	POST SLEEP			FCS C/O	RCS HF	FRED STOW	EXERCISE		CABIN STOW		MEAL	CABIN STOW	D/O BRIEF	CABIN STOW			ERG STOW		
MS2/R1 J. KAVANDI	POST SLEEP			FCS C/O	RCS HF	FRED STOW	EXERCISE		CABIN STOW		MEAL	CABIN STOW	D/O BRIEF	CABIN STOW			ERG STOW		
	POST SLEEP			EXERCISE	CABIN STOW		EXERCISE		CABIN STOW		MEAL	CABIN STOW	D/O BRIEF	CABIN STOW			OFF DUTY		

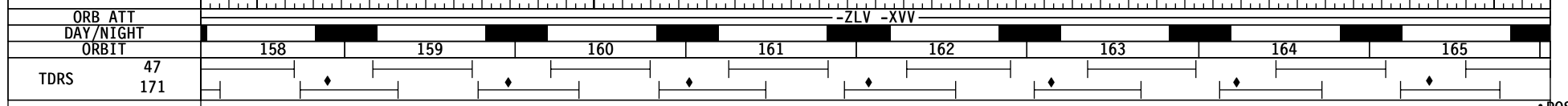


NOTES

GMT 07/22/01
 BETA ANG = -15 010/00
 MET Day 010

10 01 11 02 12 03 13 04 14 05 15 06 16 07 17 08 18 09 19 10 20 11 21 12

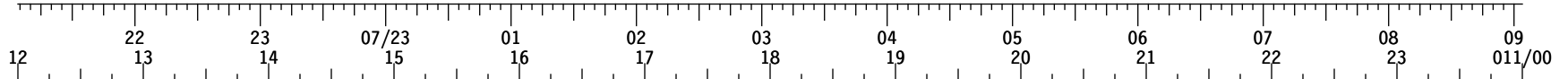
CDR/R2 S. LINDSEY	FD11	P M C - A / G	PRE SLEEP	ET N E T M R P Y	PRE SLEEP	SLEEP	DSO 493	PS OL SE TE P
PLT/IV C. HOBAUGH		K S U T - O M F X B W A C T D	PRE SLEEP			SLEEP	DSO 493	PS OL SE TE P
MS1/EV1 M. GERNHARDT		P C G C K	PRE SLEEP			SLEEP		POST SLEEP
MS2/R1 J. KAVANDI			PRE SLEEP			SLEEP	6 3 4 4	* *
MS3/EV2 J. REILLY		OFF DUTY	PRE SLEEP			SLEEP		POST SLEEP



NOTES

*POST SLEEP
*STOW

GMT 07/22/01
 BETA ANG = -16
 MET Day 010



CDR/R2 S. LINDSEY PLT/IV C. HOBAUGH MS1/EV1 M. GERNHARDT MS2/R1 J. KAVANDI MS3/EV2 J. REILLY	POST SLEEP	PMCA/G	GRWRUP	IMUNVR	IMUVERIF	-XSI	D/O PREP	DEORBIT BURN *	K S C L A N D I N G
	POST SLEEP		GRWRUP	TEPCOFF	OCACSTOW	GIRASTOW	D/O PREP		
	POST SLEEP			PCGCK	ICBCDEA	ICBCSTOW	D/O PREP		
	POST SLEEP					AIR	D/O PREP		
	POST SLEEP				OCACDEACT	PSRTINTER	D/O PREP		
	ORB ATT	-ZLV	-XVV	IMU		-XSI	COMM		
DAY/NIGHT	[Shaded]		[Shaded]		[Shaded]		[Shaded]		
ORBIT	166	167	168	169	170	171	172	173	
TDRS	47								
	171								
NOTES									

*10/19:40