

# Flight Plan

## STS-114 / ULF-1

(STS-114 OCF Rev A Cycle Trajectory)

### Mission Operations Directorate Operations Division

### Basic October 7, 2002

For the latest working copy of the Flight Plan, visit  
<https://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=114>

EVENT	MET	DATE	CST	GMT
Launch	00/00:00	1/16/03 (1/17/03)	016/21:11	017/03:11
Ti	01/18:04	1/18/03	018/15:15	018/21:15
ISS Docking	01/20:25	1/18/03	018/17:36	018/23:36
MPLM Install on ISS	02/16:00	1/19/03	019/13:11	019/19:11
EVA 1	03/17:45	1/20/03	020/14:56	020/20:56
EVA 2	05/17:45	1/22/03	022/14:56	022/20:56
EVA 3	07/17:45	1/24/03	024/14:56	024/20:56
MPLM Berth in STS	08/23:00	1/25/03 (1/26/03)	025/20:11	026/02:11
Undock	09/18:24	1/26/03	026/15:35	026/21:35
Landing	11/19:46	1/28/03	028/16:58	028/22:58

National Aeronautics and  
Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas



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MISSION OPERATIONS DIRECTORATE

**FLIGHT PLAN  
STS-114**

BASIC  
October 7, 2002

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*(Deferred until Final)*  
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FLIGHT PLAN  
STS-114

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5-7 .....	114/BAS
5-8 .....	114/BAS
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6-4 .....	* 114/BAS
6-5 .....	* 114/BAS
6-6 .....	* 114/BAS
7-1 .....	* 114/BAS
7-2 .....	* 114/BAS
7-3 .....	* 114/BAS
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STS-114 FLIGHT PLAN FABRICATED ITEMS

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STS-114 DAP A1 – A8 CONFIGURATIONS (FRONT TOP).....	CC 8-2	FLT PLN-1a/114/O/A
STS-114 DAP B1 – B8 CONFIGURATIONS (FRONT BOTTOM).....	CC 8-3	FLT PLN-1aa/114/O/A
STS-114 DAP A9 – A13 CONFIGURATIONS (BACK TOP) .....	CC 8-4	FLT PLN-1b/114/O/A
STS-114 DAP B9 – B13 CONFIGURATIONS (BACK BOTTOM) .....	CC 8-5	FLT PLN-1bb/114/O/A

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## INTRODUCTION

The STS-114 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist. The detailed EVA task timelines and procedures are contained in the EVA Checklist.

This Flight Plan satisfies the mission requirements specified in the following documents:

NSTS-07700 Vol III, Flight Definition and Requirements Document

NSTS-17462-114, STS-114 Flight Requirements Document

NSTS-37326, Shuttle Crew Scheduling Constraints

The timeline formats used in this Flight Plan are based on JSC-19933, Timeline Format Definitions and Standard Notes, Rev C, May 1990.

The STS-114 Flight Plan is based on a launch date of January 16, 2003 at 21:11 CST (January 17, 2003 at 03:11 GMT). Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

The following SCSC Exceptions have been submitted in order to meet Category 1 objectives:

TBD

The Flight Plan and other related mission information are available on the following Space Shuttle Flight Planning web site:

<http://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=114>

OVERVIEW TIMELINE

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**STS-114/ULF-1 12-day Overview Timeline – Launch on January 17, 2003 3:11 GMT**

GMT	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MET												0/0	1	2	3	4	5	6	7	8	9	10	11	12
FD1												ASC	PI	NC1	Pre Sleep	Sleep								
ISS				Pre Sleep	Sleep								Post Sleep	Pre Slp	Sleep									
Att												ASC	-ZLV +YVV			-ZLV -XVV								

MET	0/12	13	14	15	16	17	18	19	20	21	22	23	1/0	1	2	3	4	5	6	7	8	9	10	11	12
FD2		Sleep		Post Sleep		RNDZ PREP NC2				EMU C/O SAFER C/O			1/0	1	2	3	4	5	6	7	8	9	10	11	12
ISS			DPC													DPC	Pre Sleep	Sleep							
Att																									

MET	1/12	13	14	15	16	17	18	19	20	21	22	23	2/0	1	2	3	4	5	6	7	8	9	10	11	12
FD3		Post Sleep		SIMO		^NC-4 Rendezvous	^Ti			Ingress Leak Ck		MDDK XFER		1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC			Rendezvous				Ingress		IELK/MDDK XFER				DPC	Pre Sleep	Sleep							
Att						-ZLV +YVV	Rendezvous																		

MET	2/12	13	14	15	16	17	18	19	20	21	22	23	3/0	1	2	3	4	5	6	7	8	9	10	11	12
FD4		Post Sleep			MPLM Install					EVA prep				1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							MDDK xfer, MPLM Power & Act						DPC	Pre Sleep	Sleep							
Att																									

MET	3/12	13	14	15	16	17	18	19	20	21	22	23	4/0	1	2	3	4	5	6	7	8	9	10	11	12
FD5		Post				EVA 1								1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							SSRMS/IV2/MPLM Transfer						DPC	Pre	Sleep							
Att																									

MET	4/12	13	14	15	16	17	18	19	20	21	22	23	5/0	1	2	3	4	5	6	7	8	9	10	11	12
FD6		Post Sleep		Reboost		MPLM Transfer				EVA prep/SIMO/COC				1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							MPLM Transfer/COC						DPC	Pre	Sleep							
Att		LVLH TEA		+XLV -ZVV		LVLH TEA				-XLV +YVV															

MET	5/12	13	14	15	16	17	18	19	20	21	22	23	6/0	1	2	3	4	5	6	7	8	9	10	11	12
FD7		Post				EVA 2								1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							SSRMS/IV2/MPLM Transfer						DPC	Pre Sleep	Sleep							
Att																									

MET	6/12	13	14	15	16	17	18	19	20	21	22	23	7/0	1	2	3	4	5	6	7	8	9	10	11	12
FD8		Post Sleep		Reboost		OFF DUTY	CREW			EVA PREP/DUMP				1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC			Handover/MPLM Xfer	CONF			Handover						DPC	Pre Sleep	Sleep							
Att		LVLH TEA		+XLV -ZVV		LVLH TEA				-XLV +YVV															

MET	7/12	13	14	15	16	17	18	19	20	21	22	23	8/0	1	2	3	4	5	6	7	8	9	10	11	12
FD9		Post				EVA 3								1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							SSRMS/IV2/MPLM Transfer/Handover						DPC	Pre Sleep	Sleep							
Att																									

MET	8/12	13	14	15	16	17	18	19	20	21	22	23	9/0	1	2	3	4	5	6	7	8	9	10	11	12
FD10		Post Sleep		MDDK xfer		MPLM Berth								1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC							MDDK xfer/Crew Handover						DPC	Pre Sleep	Sleep							
Att																									

MET	9/12	13	14	15	16	17	18	19	20	21	22	23	10/0	1	2	3	4	5	6	7	8	9	10	11	12
FD11		Post Sleep		Egress		UNDK/ SEP				Off Duty				1	2	3	4	5	6	7	8	9	10	11	12
ISS		PSA	DPC													DPC	Pre Sleep	Sleep							
Att				LVLH TEA		Undock				-ZLV +YVV															

MET	10/12	13	14	15	16	17	18	19	20	21	22	23	11/0	1	2	3	4	5	6	7	8	9	10	11	12
FD12		Post Sleep		FCS C/O		Cabin Stow/Exercise				D/O Brief, KU Ant Stow				1	2	3	4	5	6	7	8	9	10	11	12
Att																									

MET	11/12	13	14	15	16	17	18	19	20	21	22	23	12/0	1	2	3	4	5	6	7	8	9	10	11	12
FD13		PSA		D/O Prep		Ldg								1	2	3	4	5	6	7	8	9	10	11	12
Att			IMU	-XSI		COMM																			

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SUMMARY TIMELINE AND ISS SHORT TERM PLAN

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GMT 01/17/03 000/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET Day 000

STS-114	CDR COLLINS	ASCENT	POST INSERTION	AFTIMU OIMS BURN	LD OAP OMS BURN	NC1 OMS BURN	M-NZLV G-RPRTD G-PWAC G-TRU A-PMC A-11*	P-SLEEPE P-SLEEPE A-PCU1*	PRE SLEEP	SLEEP	
	PLT KELLY	ASCENT	POST INSERTION	OIU	WATICH*	OMS BURN	P-SLEEPE G-RPRTD G-PWAC G-TRU A-PMC A-11*	A-PCU1*	PRE SLEEP	SLEEP	
	MS1 NOGUCHI	ASCENT	POST INSERTION	WATICH P/TV17 SETUP			PRE SLEEP - GIRA			SLEEP	
	MS2 ROBINSON	ASCENT	POST INSERTION	PGSC SETUP	OCA S/U	LAN S/U	LD AITS E K	CLRA PRTS S/U	WATICH	PRE SLEEP	SLEEP
	MS3 MALENCHENKO	ASCENT	POST INSERTION	GIRA INSTALL			TEEPTUCP MDDK	PRE SLEEP			SLEEP
	MS4 MOSCHENKO	ASCENT	POST INSERTION	SEE S/U	PRE SLEEP			PRE SLEEP			SLEEP
	MS5 LU	ASCENT	POST INSERTION	GIRA INSTALL			OSCAUC	PRE SLEEP			SLEEP
MCC-H											
DAY/NIGHT											
ORB ATT - ASCENT - -ZLV +YVV - -ZLV -XVV -											
ORBIT											
DAILY ORBIT											
TDRS E -47.0 W -171.0											
*RMS PWRUP *ACT *APCU 1 DEACT NOTES											

GMT 01/17/03 12 16 17 18 19 20 21 22 23 01/18 01 02 03  
 MET Day 000 12 13 14 15 16 17 18 19 20 21 22 23 001/00

STS-114	CDR COLLINS	SLEEP	SALIVIA	FD02	POST SLEEP	ELVPK	NC2 OMS BURN	MNZLV	PTV20 S/U (RNDZ)	EXERCISE	CRYO 02 SNSR CK	NPC	RCS BURN	MNZLV	MEAL	EMU C/O	EMU PREP FOR XFER
	PLT KELLY	SLEEP	SALIVIA	POST SLEEP	RNDZ PGSC S/U	RNDZ TOOLS C/O	H2O CWC SETUP	PTV19 S/U (C/L CAM)	FCMS C/O	APCU 1*	RCS BURN	APCU 1*	MEAL	EXERCISE	FCMS		
	MS1 NOGUCHI	SLEEP	SALIVIA	POST SLEEP - GIRA	FILTER CLEANING	P/TV17 SETUP	PTV19 S/U (C/L CAM)	DOCK RING EXT	SAFER C/O (1)	EMU C/O PREP	MEAL	EMU C/O	EMU PREP FOR XFER				
	MS2 ROBINSON	SLEEP	SALIVIA	POST SLEEP	MDDK	RNDZ PGSC S/U	RNDZ TOOLS C/O	EXERCISE	DOCK RING EXT	SAFER C/O (1)	EMU C/O PREP	MEAL	EMU C/O	EMU PREP FOR XFER			
	MS3 MALENCHENKO	SLEEP	POST SLEEP	ERGO S/U	EXERCISE	P/TV17 SETUP	MEAL										
	MS4 MOSCHENKO	SLEEP	POST SLEEP	ERGO S/U	EXERCISE	MEAL	EMU PREP FOR XFER										
	MS5 LU	SLEEP	POST SLEEP	P/TV17 SETUP	EXERCISE	MEAL											

MCC-H	[Timeline bar]															
DAY/NIGHT	[Timeline bar]															
ORB ATT	[Timeline bar]															
ORBIT	[Timeline bar]															
DAILY ORBIT	9	10	11	12	13	14	15	16								
TDRS	E -47.0	W -171.0	[Timeline bar]													

NOTES

\*ACT      \*APCU 1 DEACT      \*PURGE-MAN

GMT 01/18/03 001/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET Day 001

STS-114	CDR COLLINS	EMU PREP FOR XFER	PEAVOENT	NC3 RCS BURN	M-NZ V-LV	F-LT O-RAD	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP	
	PLT KELLY	EMU PREP FOR XFER	PEAVOENT	RCS BURN			PRE SLEEP			SLEEP	
	MS1 NOGUCHI	EMU PREP FOR XFER		EXERCISE			PRE SLEEP - GIRA			SLEEP	
	MS2 ROBINSON	EMU PREP FOR XFER					PRE SLEEP			SLEEP	
	MS3 MALENCHENKO		MDDK	PEAVOENT			PRE SLEEP	PMC		SLEEP	
	MS4 MOSCHENKO	EMU PREP FOR XFER					PRE SLEEP	PMC		SLEEP	
	MS5 LU			PEAVOENT			PRE SLEEP	PMC		SLEEP	
MCC-H		DAY/NIGHT									
ORB ATT		-ZLV -XVY									
ORBIT		16	17	18	19	20	21	22	23	24	
DAILY ORBIT		5	6	7	8	9	10	11	12	13	
TDRS		E -47.0									
		W -171.0									
NOTES		*HTR RECONFIG *PURGE-MANUAL									

GMT 01/18/03 12 16 17 18 19 20 21 22 23 01/19 01 02 03  
 MET Day 001 12 13 14 15 16 17 18 19 20 21 22 23 002/00

STS-114	CDR COLLINS	FD03	POST SLEEP	SIMO INIT	POST SLEEP	GR PR UP	NH	NC4	ISS RNDZ	APPROACH	MNVRM-XLVU	HATCH OPEN	SFTY BRIEF	APCUB	VTR PB	VTR PB	APCU1*
	PLT KELLY		POST SLEEP			SIMON TERM	CSOINTUP		ISS RNDZ	APPROACH	LEAK CHECK	PTV21 OPS (ISS)	SFTY BRIEF	POST RNDZ PGSC CNFG		EXER CISE	
	MS1 NOGUCHI		POST SLEEP - GIRA				EXERCISE	EMU RMVL	ISS RNDZ	APPROACH	PCS S/U	HATCH OPEN	SFTY BRIEF	MDDK XFER			
	MS2 ROBINSON		POST SLEEP				ISS RNDZ	EMU RMVL	ISS RNDZ	APPROACH	AISDSIO	HATCH OPEN	SFTY BRIEF	POST RNDZ PGSC CNFG		MDDK XFER	
EXP-7	ISS CDR E7 MALENCHENKO		POST SLEEP			MDDK	EXERCISE		ISS RNDZ	APPROACH	LEAK CHECK	HATCH OPEN	SFTY BRIEF	IELK INST & C/O			
	FE-1 EXP7 LU		POST SLEEP						ISS RNDZ	APPROACH	PCS S/U	HATCH OPEN	SFTY BRIEF	MDDK IELK INST & C/O			
	FE-2 EXP7 MOSCHENKO		POST SLEEP						ISS RNDZ		P/TV20 OPS	HATCH OPEN	SFTY BRIEF	IELK INST & C/O			
EXP-6	ISS CDR BOWERSOX	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK		EXERCISE CEVIS	ISS MEAL	ISS MEAL	CFG1A	AIR SMPL	COX-MNT	PM2 ARYL	HATCH OPEN	SFTY BRIEF	IELK INST & C/O	
	FE-1 BUDARIN	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK		EXERCISE IRED+TVIS	EXERCISE CEVIS	ISS MEAL		WDW OPS	DOCK-FILM	LEAK CHECK	HATCH OPEN	SFTY BRIEF	CP/CUS IELK INST & C/O	
	FE-2 PETTIT	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	CDR RA*	EXERCISE IRED+TVIS	ISS MEAL	ISS MEAL	IMS			LEAK CHECK	HATCH OPEN	SFTY BRIEF	IELK INST & C/O	
MCC-H		-															
ORB ATT		-ZLV -XVV															
ISS ATT		-ZLV +YVV															
DAY/NIGHT		LVLH															
ORBIT		RNDZ															
DAILY ORBIT		DOCK															
TDRS		BIAS -XLV +ZVV															
E -47.0		MPLM															
W -171.0																	
NOTES		♦RPT-H2O-CONSUMPTION @LAB PL CR ♥CHANGE-ELEKTRON-MODE *ACT ΔMCC-M GO FOR TI ▲ISS GO FOR TI φSTS GO FOR TI ●PROX VCFG1A *CFG 1A φOTHR ARRAYS *ISS/STS DOCKING SCRP *DOCK 1/20:25 φISS MODE-STND-XTION *STS TO CMG *ACT @CWCINIT 1 *APCU 1 DEAC															

P/TV 08 0  
 \*APCU 1 DEAC

MET Day 001 12 13 14 15 16 17 18 19 20 21 22 23 002/00  
GMT 01/18/03 16 17 18 19 20 21 22 23 01/19 01 02 03

I S S	DAY/NIGHT	
	ORBIT	
TDRS KU S-BD	DAILY ORBIT	

KUBD-ORB MASK-ENA		KUBD-ORB MASK-ENA
OCA-MAIL-SYNC		OCA-MAIL-SYNC

PPS-P6 SA-FTHR		PPS-P6 SA-FTHR
C-COGB-COMBINED MODE		C-COGB-COMBINED MODE
Φ-COGB-SUN SENSORS		Φ-COGB-SUN SENSORS

S R V I S	UHF-1-ACT		UHF-1-ACT
	AUDIO-UHF OPS-CNFG		AUDIO-UHF OPS-CNFG
	MSS-POWERUP		MSS-POWERUP
	CAM-COLOR-BALANCE		CAM-COLOR-BALANCE
	C&DH-INH VALIDITY-CK		C&DH-INH VALIDITY-CK
	ACS-ATT-CCDB-INCORP		ACS-ATT-CCDB-INCORP
	AUDIO-UHF OPS-DCNFG		AUDIO-UHF OPS-DCNFG
	ACS-PRE-ARVL-CNFG		ACS-PRE-ARVL-CNFG
	ISS-PWR DWN & RCVRY		ISS-PWR DWN & RCVRY
	PPS-P6-CNFG-DOCK		PPS-P6-CNFG-DOCK
	AUDIO-DOCK OPS-CNFG		AUDIO-DOCK OPS-CNFG
	PPS-SA-SUN-TRK		PPS-SA-SUN-TRK
	ACS-POST-ARVL-CNFG		ACS-POST-ARVL-CNFG
	C&DH-POST DOCK-CNFG		C&DH-POST DOCK-CNFG
	UHF-1-DEACT		UHF-1-DEACT
	SSRMS-VIDEO-DEROUTE		SSRMS-VIDEO-DEROUTE
	ACS-STC/CMG ATT-H/O		ACS-STC/CMG ATT-H/O
	ACS-MM-PREP & ACT		ACS-MM-PREP & ACT
	IATCS-LTL-STPT-CHG		IATCS-LTL-STPT-CHG
MSS-POWERDOWN		MSS-POWERDOWN	
CDRA ACT		CDRA ACT	
MPLM-PRES-CK		MPLM-PRES-CK	
VDS-VIDEO-CNFG		VDS-VIDEO-CNFG	

PCG STES-010-GROWTH		PCG STES-010-GROWTH
ARCT1-SYS-NOMPWR		ARCT1-SYS-NOMPWR
ARCT2-SYS-NOMPWR		ARCT2-SYS-NOMPWR
EXPRS1-SYS-PWR/THERM		EXPRS1-SYS-PWR/THERM
EXPRS4-SYS-PWR/THERM		EXPRS4-SYS-PWR/THERM
MAMS-P/L-NOM OPS		MAMS-P/L-NOM OPS
SAMS-ICU/D1-OPS		SAMS-ICU/D1-OPS
SAMS-RTS/D1-OPS		SAMS-RTS/D1-OPS
SAMS-RTS/D2-OPS		SAMS-RTS/D2-OPS

СЭП-АБ-FULL CHRГ		СЭП-АБ-FULL CHRГ
ISS MODE-PROX-XTION		ISS MODE-PROX-XTION
СУДН-ОГНИ-LIGHTS ON		СУДН-ОГНИ-LIGHTS ON
Φ-COCB-СБ-FEATHER		Φ-COCB-СБ-FEATHER
C-COCB-СБ-FEATHER		C-COCB-СБ-FEATHER
ISS MODE-STND-XTION		ISS MODE-STND-XTION
СЭП-АБ-PART CHRГ		СЭП-АБ-PART CHRГ

CHANGE-ELEKTRON-MODE		CHANGE-ELEKTRON-MODE
MCC-M GO FOR TI		MCC-M GO FOR TI
ISS GO FOR TI		ISS GO FOR TI
STS GO FOR TI		STS GO FOR TI
ISS MODE-PROX-XTION		ISS MODE-PROX-XTION
ISS-COMM CNFG 1A-VFY		ISS-COMM CNFG 1A-VFY
PPS-P6-CNFG-DOCK		PPS-P6-CNFG-DOCK
ISS/STS DOCKING SCRП		ISS/STS DOCKING SCRП
DOCK		DOCK
ISS MODE-STND-XTION		ISS MODE-STND-XTION
MPLM-PRES-CK		MPLM-PRES-CK

ISS ATT	
ISS RS GND	

2-6B \*CFG 1A FLT PLN/114/BAS \*STS TO CMG

NOTES

GMT 01/19/03 002/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET Day 002

S T S - 1 1 4	CDR COLLINS	* PRE SLEEP	EXERCISE	PRE SLEEP	PMC OCA	P R E	SLEEP			
	PLT KELLY	EXER CISE	PRE SLEEP	X T F A X C F A E L E G R U P L	PRE SLEEP		SLEEP			
	MS1 NOGUCHI	MDDK XFER	C T X C W E F W C R E C M R	PRE SLEEP - GIRA			SLEEP			
	MS2 ROBINSON	⊕ EXERCISE	PRE SLEEP				SLEEP			
E X P - 7	ISS CDR E7 MALENCHENKO	IELK INST & C/O	S L P W O K R O R K O C E R O L K P K	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP			
	FE-1 EXP7 LU	IELK INST & C/O	S L P W O K R O R K O C E R O L K P K	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP			
	FE-2 EXP7 MOSCHENKO	IELK INST & C/O	S L P W O K R O R K O C E R O L K P K	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP			
E X P - 6	ISS CDR BOWERSOX	IELK INST & C/O	PRE SLEEP	DPC	PRE SLEEP		SLEEP			
	FE-1 BUDARIN	IELK INST & C/O	◆ PRE SLEEP	DPC	PRE SLEEP		SLEEP			
	FE-2 PETTIT	IELK INST & C/O	PRE SLEEP	DPC	PRE SLEEP		SLEEP			
MCC-H										
ORB ATT		BIAS -XLV +ZVV								
ISS ATT										
DAY/NIGHT										
ORBIT		32	33	34	35	36	37	38	39	40
DAILY ORBIT		6	7	8	9	10	11	12	13	14
TDRS		E -47.0 W -171.0								
NOTES		*P/TV 08 OPS ⊕MDDK XFER		◆CBCS DEACT 2-7A		FLT PLN/114/BAS		©N1 CBM PREP FOR MATE		



MET Day 002 002/00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

GMT 224 01/19/03

I S S	DAY/NIGHT	
	ORBIT	
S	DAILY ORBIT	
	TDRS KU S-BD	
K U S Y	OCA-MAIL-SYNC	OCA-MAIL-SYNC
S B S	GNC-PPL-UPDATE	GNC-PPL-UPDATE
	ACS-CCDB PARAM-U/D	IACS-CCDB PARAM-U/D
	VDS-VIDEO-DCNFG	HVDS-VIDEO-DCNFG
	C&DH-OIU 5.1C-LOAD	HC&DH-OIU 5.1C-LOAD
	UHF-1-ACT	IUHF-1-ACT
	AUDIO-UHF OPS-CNFG	IAUDIO-UHF OPS-CNFG
	AUDIO-DOCK OPS-DCNFG	IAUDIO-DOCK OPS-DCNFG
	MSS-POWERUP	IMSS-POWERUP
SBD-KEY-CHG	HSBD-KEY-CHG	
U P L P S R	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
SAMS-RTS/D1-OPS		
SAMS-RTS/D2-OPS		
C C M	N1 CBM PREP FOR MATE	INI CBM PREP FOR
	ISS ATT	
ISS	RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L  
SAMS-ICU  
SAMS-RTS

INI CBM PREP FOR

GMT 01/19/03 12 16 17 18 19 20 21 22 23 01/20 01 02 03  
 MET Day 002 12 13 14 15 16 17 18 19 20 21 22 23 003/00

STS-114	CDR COLLINS	FD04 POST SLEEP	PTV22 S/U SSRMS	POST SLEEP	CINWICIT 2	P/TV22 OPS	CTWECRM	CINWICIT 3	CTWECRM	XFER 2 CWC	MEAL	CEVIS	EMU XFER & RCFG	EMU TO A/L I/F CK	E LK PREP	CMGHTR	PTV 18 S/U	EVA REVW	
	PLT KELLY	POST SLEEP	GRAPL	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	SSRMS EVAL POS	VEST PRESS	MEAL	MPLM VEST						
	MS1 NOGUCHI	POST SLEEP - GIRA			MDDK	PCG-STES 09 TRANSFER	CBM 1ST STG	CBM 2ND STG	ABCOLTS	CPCG-H TRANSFER	MEAL	CEVIS	EMU XFER & RCFG	EMU TO A/L I/F CK	E LK PREP	EVA TOOL/PGT REVIEW	RH/BWA	PTV 18 S/U	EVA REVW
	MS2 ROBINSON	POST SLEEP	GRAPL	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	N2 XFER	MEAL	CEVIS	EMU XFER & RCFG	EMU TO A/L I/F CK	E LK PREP	EVA TOOL/PGT REVIEW	RH/BWA	PTV 18 S/U	EVA REVW
EXP-6	ISS CDR BOWERSOX	POST SLEEP	AICNBSMPT	MPLM SSRMS SUPPORT				02 P/B CONFIG	N2 XFER	VEST PRESS	MEAL	MPLM VEST			ACT I	MPLM VEST	ACT 2	MPLM VEST	
	FE-1 BUDARIN	POST SLEEP	DPC	EXERCISE TVIS	PCG-STES 09 TRANSFER	MDDK XFER	CPCG-H TRANSFER	MEAL	MDDK XFER		EXERCISE TVIS	MDDK XFER							
	FE-2 PETTIT	POST SLEEP	DPC	PREP WORK	EXERCISE CEVIS	AIR SMPL	MDDK XFER	02 P/B CONFIG	MPLM EQUIP S/U	MEAL	CEVIS	EMU XFER & RCFG	EMU TO A/L I/F CK	E LK PREP	EVA TOOL PGT RVW	EXERCISE IRED+TVIS			
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	MDDK XFER				N1 NDR CBCS RMV	MEAL	MDDK XFER			EXERCISE CEVIS	EVA PROC REVW			
	FE-1 EXP7 LU	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	MDDK XFER				02 P/B CONFIG	N2 XFER	CPCG ACT	MEAL	MDDK XFER	EXERCISE CEVIS	MDDK XFER	EVA PROC REVW		
	FE-2 EXP7 MOSCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	MDDK XFER				STOW	MEAL	MDDK XFER	EXERCISE TVIS	MDDK XFER					
MCC-H		MPLM																	
ORB ATT		BIAS -XLV +ZVV																	
DAY/NIGHT		[Day/Night Cycle]																	
ORBIT		40	41	42	43	44	45	46	47	48									
DAILY ORBIT		14	15	16	1	2	3	4	5	6									
TDRS		E -47.0	[TDRS Schedule]																
TDRS		W -171.0	[TDRS Schedule]																
NOTES		*SALIVA	*ACT	*APCU 1 DEACT	LAB PL CK	2-8A	*CPCH CK	@CBM BOLT LOADING FLT PLN/114/BAS											

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GMT 225 01/19/03

I S S	DAY/NIGHT	
	ORBIT	
S	DAILY ORBIT	
	TDRS KU S-BD	
K U S	OCA-MAIL-SYNC	----- OCA-MAIL-SYNC
D B S	UHF-1-DEACT AUDIO-UHF OPS-DCNFG AUDIO-DOCK OPS-CNFG MPLM-PRES-CK VDS-VIDEO-CNFG CAM-COLOR-BALANCE ACS-DESAT-INH ACS-DESAT-ENA GNC-PPL-UPDATE SSRMS-VIDEO-DEROUTE MSS-POWERDOWN VDS-VIDEO-DCNFG C&DH-OIU 7C-LOAD	UHF-1-DEACT  AUDIO-UHF OPS-DCNFG  AUDIO-DOCK OPS-CNFG  MPLM-PRES-CK  HVDS-VIDEO-CNFG  CAM-COLOR-BALANCE  ACS-DESAT-INH  ACS-DESAT-INH  ACS-DESAT-ENA  ACS-DESAT-ENA  GNC-PPL-UPDATE  SSRMS-VIDEO-DEROUTE  MSS-POWERDOWN  HVDS-VIDEO-DCNFG  C&DH-OIU 7C-LOAD
C P G	PCG STES-010-GROWTH ARCT1-SYS-NOMPWR ARCT2-SYS-NOMPWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS CPO/PRO-PCG-CMD CPO/PRO-CPCG-H-CMD PCG STES-009-DATA DL PCG STES-009-PWR CPCG-H-EXP-POWER CPCG-H-CRYSTAL-GRTH	CPO/PRO-PCG-CMD  CPO/PRO-CPCG-H-CMD  PCG STES-009-DATA DL  CPCG-H-EXP-POWER
S T R	SOKOL SUIT DRYING GLOVE DRYING	SOKOL SUIT DRYING  GLOVE DRYING  GLOVE DRYING  GLOVE DRYING
C B M	MPLM-PRES-CK CBM BOLT LOADING	MPLM-PRES-CK  CBM BOLT LOADING
	ISS ATT	
ISS	RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L-  
SAMS-ICU/  
SAMS-RTS/  
PCG STES-  
CPCG-H-CF  
SOKOL SUIT

GMT 01/20/03 003/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET Day 003

STS-114	CDR COLLINS	EVA REVW	EXERCISE	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP		
	PLT KELLY	MVPELS MIPNLS MISLGR MTPMRM	MISSE XFER & PREP	PRE SLEEP	XTFAERUP XCFAELRL	PRE SLEEP	SLEEP		
	MS1 NOGUCHI	EVA REVW	EXERCISE	PRE SLEEP - GIRA			SLEEP		
	MS2 ROBINSON	EVA REVW	PRE SLEEP	EXERCISE	PRE SLEEP		SLEEP		
EXP-6	ISS CDR BOWERSOX	MVPELS MIPNLS MISLGR MTPMRM	PRE SLEEP	DPC	PRE SLEEP		SLEEP		
	FE-1 BUDARIN	MDDK XFER	PRE SLEEP	DPC	PRE SLEEP		SLEEP		
	FE-2 PETTIT	EVA PROC REVW	PRE SLEEP	DPC	PRE SLEEP	XTFAERUP XCFAELRL	PRE SLEEP		
EXP-7	ISS CDR E7 MALENCHENKO	EVA PROC REVW	PLN RVW	DPC	PMC	PRE SLEEP	SLEEP		
	FE-1 EXP7 LU	EVA PROC REVW	STES 009 ACT	PLN RVW	DPC	PMC	PRE SLEEP		
	FE-2 EXP7 MOSCHENKO	MDDK XFER	SOKOL * STES 009 ACT	PLN RVW	DPC	PMC	PRE SLEEP		
MCC-H		ORB ATT						BIAS -XLV +ZVV	
DAY/NIGHT		[Day/Night Bar]							
ORBIT		[Orbit Bar]							
DAILY ORBIT		48	49	50	51	52	53	54	55
TDRS		E -47.0	W -171.0	[TDRS Bar]					
NOTES		*STES VIDEO S/U			2-9A		FLT PLN/114/BAS		

MET Day 003 003/00 01 02 03 04 05 06 07 08 09 10 11 12

GMT 225 01/20/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
S	TDRS	KU
		S-BD
K U S	OCA-MAIL-SYNC	OCA-MAIL-SYNC
S B D	AR-MCA MPLM-PPL	IAR-MCA MPLM-PPL
	SASA-C/O	ISASA-C/O
	SBD-KEY-CHG	HSBD-KEY-CHG
M P L P L	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	PCG STES-009-PWR	PCG STES-009-PWR
CPCG-H-CRYSTAL-GRTH		
PCG STES-009-GROWTH		
S R	SOKOL SUIT DRYING	ISOKOL SUIT DRYING
C C M		
	ISS ATT	
ISS	RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SY  
EXPRS4-SY  
MAMS-P/L-  
SAMS-ICU  
SAMS-RTS  
SAMS-RTS  
CPCG-H-CF  
PCG STES-

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 MET Day 003 12 13 14 15 16 17 18 19 20 21 22 23 004/00

STS-114	CDR COLLINS	FD05	POST SLEEP	PMC A/G	LEH	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	IVA SUPPORT						
	PLT KELLY	POST SLEEP	CFER REVIEW	EVN A/B/T	POST SLEEP	WORF TRANSFER	MELFI XFER	PTV23 S/U (EVA)	CIN CIT 4	EXERCISE	CTWERM	TRANSFER	PRLA	MEAL	CIN CIT 5	TRANSFER	CTWERM	XFER 2 CWC	
	MS1 NOGUCHI	POST SLEEP - GIRA	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	EVA 1 (06:30)					C&I UNGR			
	MS2 ROBINSON	POST SLEEP	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	ESP2 PREP/PAD INSTL	ESP2 CBL RTG	MISSE SWAP OUT	ESP2 INSTALL	FPMU STAN INSTL	C&I UNGR			
EXP-6	ISS CDR BOWERSOX	POST SLEEP	LEH	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EXERCISE CEVIS	HANDOVER	MEAL	HANDOVER	EXERCISE IRED				
	FE-1 BUDARIN	POST SLEEP		DPC	PREP WORK	TRANSFER		⊕	LBNP	TRANSFER		MEAL	HANDOVER	EXERCISE CEVIS	✦				
	FE-2 PETTIT	POST SLEEP		DPC	PWORKERPK	WORF TRANSFER	MELFI XFER	EVA SSRMS SUPPORT							XFER				
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	XFER	EXERCISE CEVIS	EVA SSRMS SUPPORT							♦				
	FE-1 EXP7 LU	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	XFER	MT XLATION WS 4-6	EVA SSRMS SUPPORT							♦				
	FE-2 EXP7 MOSCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	⊕	XFER	EXERCISE TVIS	LBNP	TRANSFER	HANDOVER	MEAL	HANDOVER	TRANSFER					
MCC-H																			
ORB ATT		BIAS -XLV +ZVV																	
DAY/NIGHT		[Bar chart showing day/night cycle]																	
ORBIT		[Bar chart showing orbit parameters]																	
DAILY ORBIT		[Bar chart showing daily orbit parameters]																	
TDRS		[Bar chart showing TDRS parameters]																	
E -47.0 W -171.0		[Bar chart showing TDRS parameters]																	
NOTES	ⓄHRF1-PC HD-INSTL ⓄLAB PL CK 2-10A FLT PLN/114/BAS																	✦TRANSFER ♦SSRMS EVA2	

MET Day 003 12 13 14 15 16 17 18 19 20 21 22 23 004/00

GMT 226 01/20/03

ISS	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
ISS	TDRS	KU S-BD
ISS	10.2 PSI OPS INIT	10.2 PSI OPS INIT
	IATCS-N1-MTL-CHG	HIATCS-N1-MTL-CHG
	ISS-DPRS-INA/ENA	ISS-DPRS-INA/ENA
	10.2 PSI OPS TERM	10.2 PSI OPS TERM
ISS	ISS-RAP DPRS-INH	ISS-RAP DPRS-INH
	ISS-RAP DPRS-ENA	ISS-RAP DPRS-ENA
ISS	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
SAMS-RTS/D2-OPS		
ISS	CPCG-H-CRYSTAL-GRTH	
	PCG STES-009-GROWTH	
ISS	CHT-24-ACT	CHT-24-ACT
	KUП-2-ACT	KUП-2-ACT
ISS	ISS ATT	
	ISS RS GND	
NOTES		

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L-  
SAMS-ICU/  
SAMS-RTS/  
SAMS-RTS/  
CPCG-H-CR  
PCG STES-

GMT 01/21/03 04 05 06 07 08 09 10 11 12 13 14 15  
 MET 004/00 Day 004

STS-114	CDR COLLINS	I V A	C R P / L R S	POST EVA W/O H2O	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP		
	PLT KELLY			HRF2 XFER *	PRE SLEEP	X T F A F E G R U P	X C F A F E L R L	PRE SLEEP		
	MS1 NOGUCHI	⊕	C R P / L R S	POST EVA W/O H2O & W/MTX	PRE SLEEP - GIRA			SLEEP		
	MS2 ROBINSON	♦	C R P / L R S	POST EVA W/O H2O	PRE SLEEP			SLEEP		
EXP-6	ISS CDR BOWERSOX	Ⓢ	C R P / L R S	POST EVA W/O H2O	L/M/EMU BATT	B S A - I	PRE SLEEP	SLEEP		
	FE-1 BUDARIN			TRANSFER	IMS	DPC	PRE SLEEP	SLEEP		
	FE-2 PETTIT	XFER		HRF2 XFER	EXERCISE TVIS		PRE SLEEP	SLEEP		
EXP-7	ISS CDR E7 MALENCHENKO	Δ		TRANSFER	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP		
	FE-1 EXP7 LU	Δ		EXERCISE CEVIS	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP		
	FE-2 EXP7 MOSCHENKO			TRANSFER	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP		
MCC-H										
ORB ATT		BIAS -XLV +ZVV								
DAY/NIGHT		[Day/Night Cycle]								
ORBIT		[Orbit Cycle]								
DAILY ORBIT		63	64	65	66	67	68	69	70	71
TDRS		E -47.0								
		W -171.0								
NOTES		⊕C/U & INGR *EVA COMM DCNFG ♦C/U & INGR ♥CXO-CИΓHAI-BM-SW/O 2-11A ⓈEXERCISE IRED ΔSSRMS EVA2 POS								
								FLT PLN/114/BAS		



MET Day 004 004/00

GMT 226 01/21/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
K U S Y	TDRS	KU S-BD
	OCA-MAIL-SYNC	OCA-MAIL-SYNC
S B D	PPS-SA-4B-AUTOTRACK	PPS-SA-4B-AUTOTRACK
	PPS-SA-P6-RATE	PPS-SA-P6-RATE
	ISS-PWR RCVR	ISS-PWR RCVR
	SBD-KEY-CHG	HSBD-KEY-CHG
U n t e r p l	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
CPCG-H-CRYSTAL-GRTH		
PCG STES-009-GROWTH		
R S	HCHT-24-DEACT	
	SM-S/W-LOAD	
M C		
	ISS ATT	
ISS	RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SY  
EXPRS4-SY  
MAMS-P/L-  
SAMS-ICU/  
SAMS-RTS/  
SAMS-RTS/  
CPCG-H-CP  
PCG STES-  
SM-S/W-LO

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 MET Day 004 12 13 14 15 16 17 18 19 20 21 22 23 005/00

STS-114	CDR COLLINS	POST SLEEP		ATHO*	MNVR RBST	REBOOST CONFIG4	MNVR -XLV	ATHO*	CINWIT 6	EXERCISE	CTE CRM	XFER CWC	PEAVO ENT	MEAL	COC CEREMONY	E LK PREP	EVA TOOL CONFG	EVA PROC REVW		
	PLT KELLY	POST SLEEP		XFER REVIEW	FILTER CLEAN INSPECT	WCS	PS/TV 21	EXERCISE	TRANSFER	CC/NO D	CHAC	PRCS	MEAL	COC CEREMONY	ATHO*	MNVR DUMP	SIMO INIT	SIMO TERM	M-NVLR	ATHO*
	MS1 NOGUCHI	POST SLEEP - GIRA			P/TV 24 S/U	P/TV 24 OPS	ASPRN	EMU H20 RCHG	EMET-IX	TRANSFER	EXERCISE	PS/TV 21	PEAVO ENT	MEAL	COC CEREMONY	E LK PREP	EVA TOOL CONFG	EVA PROC REVW		
	MS2 ROBINSON	POST SLEEP		N2 TERM	O2 XFER S/U	O2HPT	EXERCISE	ASPRN	EMU H20 RCHG	TRANSFER	PEAVO ENT	MEAL	COC CEREMONY	E LK PREP	EVA TOOL CONFG	EVA PROC REVW				
EXP-6	ISS CDR BOWERSOX	POST SLEEP		DPC	N2 TERM	O2 XFER S/U	O2HPT	EXERCISE IRED+TVIS	HANDOVER	PEAVO ENT	MEAL	COC CEREMONY	HANDOVER	EXERCISE TVIS	EVA PROC REVW					
	FE-1 BUDARIN	POST SLEEP		DPC	PREP WORK	HANDOVER			PREP	PEAVO ENT	EXERCISE TVIS	MEAL	COC CEREMONY	XFER	TVIS					
	FE-2 PETTIT	POST SLEEP		DPC	PREP WORK	LAB CWC FILL	EXERCISE TVIS	HANDOVER	EXERCISE IRED+TVIS	TRANSFER	MEAL	COC CEREMONY	HAND OVER							
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POST SLEEP	DPC	PREP WORK	NTXN CDR DATA CLCT	HANDOVER			PREP	PEAVO ENT	EXERCISE CEVIS	MEAL	COC CEREMONY	HAND OVER					
	FE-1 EXP7 LU	SLEEP	POST SLEEP	DPC	PREP WORK	O2 XFER S/U	O2HPT	COX-MNT	HANDOVER			PEAVO ENT	MEAL	COC CEREMONY	HANDOVER	EXERCISE CEVIS	EVA PROC REVW			
	FE-2 EXP7 MOSCHENKO	SLEEP	POST SLEEP	DPC	PREP WORK	HANDOVER			EXERCISE CEVIS	PREP	PEAVO ENT	TRANSFER	MEAL	COC CEREMONY	HANDOVER	TRANSFER	EVA PROC REVW			
MCC-H	ORB ATT		BIAS -XLV +ZVV			REBOOST			BIAS -XLV +ZVV			SIMO DUMP								
DAY/NIGHT		ORBIT		DAILY ORBIT		TDRS		E -47.0		W -171.0										
NOTES		SALIVA		*OFF		*HANDOVER		*FTHR ARRAYS		*CNFG2		*CMG TO STS		*EVA PROC REVW						
		*LAB PL CK		*CMG TO STS		*STS TO CMG		*TERM		*REG PCNFG		*CMG TO STS		*STS TO CMG						
										FLTP-PLN/114/BAS										

MET Day 004 12 13 14 15 16 17 18 19 20 21 22 23 005/00

GMT 227 01/21/03

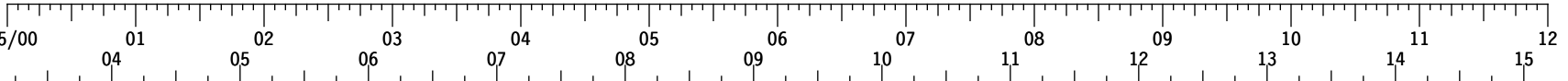
ISS	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
ISS	TDRS	KU S-BD
KUSY		
DBS	A/L CCAA CONFIG	— A/L CCAA CONFIG
	ACS-CMG/STS ATT-H/O	— ACS-CMG/STS ATT-H/O
	PPS-SA 4B-FTHR	— PPS-SA 4B-FTHR
	ISS-PWR-DWN	— ISS-PWR-DWN
	ACS-STG/CMG ATT-H/O	— ACS-STG/CMG ATT-H/O
MPLP	ISS-PWR-UP	— ISS-PWR-UP
	PPS-P6-SA-4B-AUTO	— PPS-P6-SA-4B-AUTO
	ACS-MM-PREP & ACT	— ACS-MM-PREP & ACT
	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
RS	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
	PCG STES-009-GROWTH	
	SM-S/W-LOAD	— SM-S/W-LOAD
CMC	PPS-SA 4B-FTHR	— PPS-SA 4B-FTHR
ISS ATT		
ISS	RS GND	
NOTES		*CMG TO STS                      *STS TO CMG                      *CMG TO STS                      *STS TO CMG

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L-  
SAMS-ICU/  
SAMS-RTS/  
SAMS-RTS/  
CPCG-H-CR  
PCG STES-

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 MET FD6 Day 005

STS-114	CDR COLLINS	EVA PROC REVW	PRE SLEEP				PMC OCA	PRE SLEEP	SLEEP				
	PLT KELLY	EVA PROC REVW	PRE SLEEP				X T F A F A X C F A F A F A E G R U P E L R P L R L	PRE SLEEP	SLEEP				
	MS1 NOGUCHI	EVA PROC REVW	PTV 18 S/U	PRE SLEEP - GIRA				SLEEP					
	MS2 ROBINSON	EVA PROC REVW	PTV 18 S/U	O T E R M 2	R C N F G R C N F G	PRE SLEEP				SLEEP			
EXP-6	ISS CDR BOWERSOX	EVA PROC REVW	O T E R M 2	R C N F G R C N F G	DPC	PRE SLEEP	PMC	PRE SLEEP	SLEEP				
	FE-1 BUDARIN	TVIS	PRE SLEEP	PMC	DPC	PRE SLEEP				SLEEP			
	FE-2 PETTIT	HAND OVER	PRE SLEEP	DPC	PMC	PRE SLEEP				SLEEP			
EXP-7	ISS CDR E7 MALENCHENKO	HAND OVER	PLN RVW	DPC	PMC	PRESLEEP-ISS				SLEEP			
	FE-1 EXP7 LU	EVA PROC REVW	IMS	PLN RVW	DPC	PMC	PRESLEEP-ISS				SLEEP		
	FE-2 EXP7 MOSCHENKO	EVA PROC REVW	*	PLN RVW	DPC	PMC	PRESLEEP-ISS				SLEEP		
MCC-H													
ORB ATT		BIAS -XLV +ZVV											
DAY/NIGHT													
ORBIT		79	80	81	82	83	84	85	86	87			
DAILY ORBIT		7	8	9	10	11	12	13	14	15			
TDRS		E -47.0											
		W -171.0											
NOTES		*BRPK-INSPECT				2-13A				FLT PLN/114/BAS			

MET Day 005 005/00



GMT 227 01/22/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
K U S	TDRS	KU S-BD
	OCA-MAIL-SYNC	IOCA-MAIL-SYNC
S B D	A/L CCAA CONFIG	IA/L CCAA CONFIG
	SBD-KEY-CHG	HSBD-KEY-CHG
	SPS-DDCU-BDT	ISPS-DDCU-BDT
P C P G	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
I S S	ISS ATT	
	ISS RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SY  
EXPRS4-SY  
MAMS-P/L-  
SAMS-ICU  
SAMS-RTS  
SAMS-RTS  
CPCG-H-CR  
PCG STES

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 MET Day 005 12 13 14 15 16 17 18 19 20 21 22 23 006/00

STS-114	FD07 CDR COLLINS	POST SLEEP	PMC A/G	LEH	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	IVA SUPPORT					
	PLT KELLY	POST SLEEP			EIVN	CIN	EXERCISE		CTWRM	PTV23 S/U (EVA)	EVA SSRMS SUPPORT						
	MS1 NOGUCHI	POST SLEEP - GIRA	EMU	CEVIS	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	EVA 2 (7:00)		C & I UNGR		
	MS2 ROBINSON	POST SLEEP	EMU	CEVIS	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	EVA2 CMG R&R		C & I UNGR		
EXP-6	ISS CDR BOWERSOX	POST SLEEP	LEH	STS P/B 02 EVA PREP				EMURGE	EMU P/B	C/L DPRS	EXERCISE IRED+TVIS		MEAL	TRANSFER		⊕	
	FE-1 BUDARIN	POST SLEEP		DPC	PREP WORK	TRANSFER		EXERCISE TVIS	TRANSFER		MEAL	TRANSFER	EXERCISE TVIS	HANDOVER			
	FE-2 PETTIT	POST SLEEP		DPC	PREP WORK	XFER REVIEW	EXERCISE TVIS	TRANSFER		MEAL	TRANSFER		⊗				
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POSTSLEEP-ISS		DPC	PREP WORK	TRANSFER		EXERCISE CEVIS	TRANSFER		MEAL	TRANSFER				
	FE-1 EXP7 LU	SLEEP	POSTSLEEP-ISS		DPC	PREP WORK	XFER	EXERCISE CEVIS	EVA SSRMS SUPPORT								
	FE-2 EXP7 MOSCHENKO	SLEEP	POST SLEEP ISS	STS P/B 02 EVA PREP				TRANSFER		MEAL	TRANSFER	EXERCISE CEVIS	HANDOVER				
MCC-H																	
ORB ATT		BIAS -XLV +ZVV															
DAY/NIGHT		[Bar chart showing day/night cycle]															
ORBIT		[Bar chart showing orbit parameters]															
DAILY ORBIT		87	88	89	90	91	92	93	94	95							
		15	16	1	2	3	4	5	6	7							
TDRS		[Bar chart showing TDRS data]															
E -47.0 W -171.0		[Bar chart showing TDRS data]															
NOTES		*TERM		*TERM		♦LAB PL CK				2-14A				♦CMG CK			
		FLT PLN/114/BAS															
		⊕EXERCISE C ⊗EXERCISE IR															

MET Day 005 12 13 14 15 16 17 18 19 20 21 22 23 006/00  
 GMT 228 01/22/03 16 17 18 19 20 21 22 23 01/23 01 02 03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU S-BD	
K U S		
D P R S	10.2 PSI OPS INIT	----- 10.2 PSI OPS INIT
	10.2 PSI OPS TERM	----- 10.2 PSI OPS TERM
	ISS-RAP DPRS-INH	----- ISS-RAP DPRS-INH
	ISS-RAP DPRS-ENA	----- ISS-RAP DPRS-ENA
P C G S T E S	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
S R		
C C M		
	ISS ATT	
ISS	RS GND	
	NOTES	

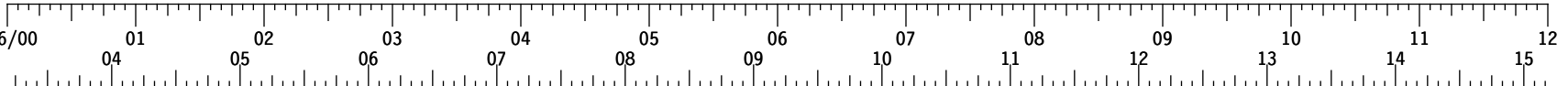
PCG STES-  
 ARCT1-SYS-  
 ARCT2-SYS-  
 EXPRS1-SYS-  
 EXPRS4-SYS-  
 MAMS-P/L-  
 SAMS-ICU-  
 SAMS-RTS-  
 SAMS-RTS-  
 CPCG-H-CR-  
 PCG STES-

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 MET Day 006 006/00 01 02 03 04 05 06 07 08 09 10 11 12

STS-114	CDR COLLINS	IVA SUPPORT	CR/PLRS	POST EVA W/O H2O	PRE SLEEP	PMC OCA	PSLEEPEE	SLEEP	
	PLT KELLY	EVA SSRMS SUPPORT EVA	CINWCT * 8	PRE SLEEP	CTWE CRM	XFER 2 CWC	PRE SLEEP	SLEEP	
	MS1 NOGUCHI	C/U & INGR	CR/PLRS	POST EVA W/O H2O W/METOX	PRE SLEEP - GIRA			SLEEP	
	MS2 ROBINSON	C/U & INGR	CR/PLRS	POST EVA W/O H2O	PRE SLEEP			SLEEP	
EXP-6	ISS CDR BOWERSOX	EXERCISE CEVIS	CR/PLRS	POST EVA W/O H2O	L/M/EMU BATT	B S A - I	PRE SLEEP	SLEEP	
	FE-1 BUDARIN	HANDOVER		PRE SLEEP	DPC		PRE SLEEP	SLEEP	
	FE-2 PETTIT	EXERCISE IRED TVIS		PRE SLEEP	DPC	PRE SLEEP	X T F A X C F A F E L L E G R U P R L	PRE SLEEP	
EXP-7	ISS CDR E7 MALENCHENKO	TRANSFER	SSRMS GRAPLE MBS WS6	PLN RVW	DPC	PMC	PRESLEEP-ISS	SLEEP	
	FE-1 EXP7 LU	EVA SSRMS SUPPORT	SSRMS GRAPLE MBS WS6	IMS	PLN RVW	DPC	PMC	PRESLEEP-ISS	
	FE-2 EXP7 MOSCHENKO	HANDOVER		POST EVA W/O H2O		PMC	PRESLEEP-ISS	SLEEP	
MCC-H									
ORB ATT		BIAS -XLV +ZVV							
DAY/NIGHT		[Bar chart showing day/night cycles]							
ORBIT		95	96	97	98	99	100	101	102
DAILY ORBIT		7	8	9	10	11	12	13	14
TDRS		E -47.0							
		W -171.0							
NOTES		*EVA COMM DCNFG			2-15A		FLT PLN/114/BAS		



MET Day 006 006/00



GMT 228 01/23/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
K U S	TDRS	KU S-BD
	OCA-MAIL-SYNC	-----IOCA-MAIL-SYNC
L T L	LTL/CCAA-METOX-CNFG CMG C/O	-----LTL/CCAA-METOX-CNFG ICMG C/O
	PCG STES-010-GROWTH ARCT1-SYS-NOMPWR ARCT2-SYS-NOMPWR EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS CPCG-H-CRYSTAL-GRTH PCG STES-009-GROWTH	
S R S		
ISS ATT		
ISS RS GND		
NOTES		

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L-  
SAMS-ICU  
SAMS-RTS  
SAMS-RTS  
CPCG-H-CR  
PCG STES-

GMT 01/23/03 12 16 17 18 19 20 21 22 23 20 01/24 21 01 22 02 23 03  
 MET Day 006

STS-114	CDR COLLINS	FD08		POST SLEEP	EXERCISE	OFF DUTY				CREW CONF	CPHREO W T O	JOINT MEAL	PEAV O E N T	E LK PREP	EVA TOOL CONFG																																				
	PLT KELLY	POST SLEEP		XFER REVIEW	ATT H O * MNRV RBST	REBOOST CONFIG3	MNRV -XLV	ATT H O *	OFF DUTY	PS / U 2 1	CREW CONF	CPHREO W T O	JOINT MEAL	FILTER CLEANING	ATT H O * MNRV DUMP	S I P N L Y	EXERCISE																																		
	MS1 NOGUCHI	POST SLEEP - GIRA		AM E T O X H 2 O RCHG	EMU - I	OFF DUTY		EXERCISE	OFF DUTY	CREW CONF	CPHREO W T O	JOINT MEAL	PEAV O E N T	E LK PREP	EVA TOOL CONFG																																				
	MS2 ROBINSON	POST SLEEP		AM E T O X H 2 O RCHG	EXERCISE	OFF DUTY			CREW CONF	CPHREO W T O	JOINT MEAL	PEAV O E N T	E LK PREP	EVA TOOL CONFG																																					
EXP-6	ISS CDR BOWERSOX	POST SLEEP	DPC	PREP WORK	HANDOVER			EXERCISE IRED+TVIS		CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER																																						
	FE-1 BUDARIN	POST SLEEP	DPC	PREP WORK	LBNP	HANDOVER		TRANSFER	CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER																																							
	FE-2 PETTIT	POST SLEEP	DPC	PREP WORK	⊕	HANDOVER		EXERCISE IRED+TVIS	HANDOVER	CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER	EXERCISE TVIS																																					
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	HANDOVER			TRANSFER		CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER	EXERCISE IRED+TVIS																																				
	FE-1 EXP7 LU	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	HANDOVER	EXERCISE IRED+TVIS	HAND OVER	TRANSFER	CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER																																						
	FE-2 EXP7 MOSCHENKO	SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	BMPI Φ1 MNT	LBNP	HANDOVER		TRANSFER	CREW CONF	CPHREO W T O	JOINT MEAL	HANDOVER																																					
MCC-H		BIAS -XLV +ZVV														REBOOST		BIAS -XLV +ZVV														SUPPLY DUMP																			
ORB ATT																																																			
DAY/NIGHT																																																			
ORBIT		103			104			105			106			107			108			109			110																												
DAILY ORBIT		15			1			2			3			4			5			6			7																												
TDRS		E -47.0																W -171.0																																	
NOTES		*SALIVA														⊕LAB PL CK		*CMG TO STS														*STS TO CMG		FLT PLN/114/BAS														*CMG TO STS		♦FTHR ARRAYS	

MET Day 006 12 13 14 15 16 17 18 19 20 21 22 23 007/00

GMT 229 01/23/03

ISS	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU S-BD	
ISS	LTL/CCAA-METOX-CNFG	LTL/CCAA-METOX-CNFG
	ACS-CMG/STS ATT-H/O	ACS-CMG/STS ATT-H/O
ISS	ACS-STC/CMG ATT-H/O	ACS-STC/CMG ATT-H/O
	CREW CONFERENCE	CREW CONFERENCE
	PPS-SA 4B-FTHR	PPS-SA 4B-FTHR
	ISS-PWR-DWN	ISS-PWR-DWN
ISS	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
ISS	PPS-SA 4B-FTHR	PPS-SA 4B-FTHR
ISS ATT		
ISS	RS GND	
<p style="text-align: center;">*CMG TO STS                      *STS TO CMG                      *CMG TO STS</p> <p style="text-align: right;">*CMG TO STS</p>		
NOTES		

GMT 01/24/03 007/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET FDB Day 007

STS-114	CDR COLLINS	EVA REVW	PRE SLEEP	PMC OCA	PRE SLEEP	SLEEP				
	PLT KELLY	* STPENLR YM	M-XVLRV	IMUO*	PRE SLEEP	XTFAEGURP	XCFALRRL	PRE SLEEP	SLEEP	
	MS1 NOGUCHI	EVA REVW	PTV 18 S/U	PRE SLEEP - GIRA	SLEEP					
	MS2 ROBINSON	EVA REVW	PTV 18 S/U	PRE SLEEP	SLEEP					
EXP-6	ISS CDR BOWERSOX	EXERCISE TVIS	PRE SLEEP	DPC	PRE SLEEP	SLEEP				
	FE-1 BUDARIN	EXERCISE CEVIS	PRE SLEEP	DPC	PRE SLEEP	SLEEP				
	FE-2 PETTIT	EVA REVW	PRE SLEEP	DPC	PRE SLEEP	SLEEP				
EXP-7	ISS CDR E7 MALENCHENKO	EVA REVW	⊕ PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP				
	FE-1 EXP7 LU	EVA REVW	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP				
	FE-2 EXP7 MOSCHENKO	EVA REVW	◆ IMS	PLN RVW	DPC PMC	PRESLEEP-ISS	SLEEP			
MCC-H										
ORB ATT		BIAS -XLV +ZVV								
DAY/NIGHT										
ORBIT										
DAILY ORBIT		110	111	112	113	114	115	116	117	118
TDRS		E -47.0	W -171.0							
NOTES		*EXERCISE *STS TO CMG ⊕SAMS-SE-REPL ◆CBO-CPBK-BPNK-INSPECT				2-17A	FLT PLN/114/BAS			

MET Day 007 007/00

GMT 229 01/24/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU S-BD	
K U S Y	OCA-MAIL-SYNC	-----IOCA-MAIL-SYNC
B S D	ACS-STG/CMG ATT-H/O	-----IACS-STG/CMG ATT-H/O
	ISS-PWR-UP	-----ISS-PWR-UP
	ITCS-SPD-INSTL-RCNFG	-----IITCS-SPD-INSTL-RCNFG
	IFHX-SPD-INSTL-RCNFG	-----IIFHX-SPD-INSTL-RCNFG
	C&DH-PPL-LWR-U/L	-----IC&DH-PPL-LWR-U/L
	PPS-P6-SA-4B-AUTO	-----IPPS-P6-SA-4B-AUTO
	ACS-MM-PREP & ACT	-----IACS-MM-PREP & ACT
P C P S T S	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
I S S	ISS ATT	
	ISS RS GND	
		*STS TO CMG
	NOTES	

PCG STES  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L  
SAMS-ICU  
SAMS-RTS  
SAMS-RTS  
CPCG-H-CR  
PCG STES

GMT 01/24/03  
 MET Day 007

	12	13	14	15	16	17	18	19	20	21	22	23	01/25	01	02	03			
STS-114	FD09 CDR COLLINS		POST SLEEP	PMC A/G	STS P/B 02 EVA PREP			EMURGE	EMU P/B	C/L DPRS	IVA SUPPORT								
	PLT KELLY		POST SLEEP		EVA 3 B T	XFER REVIEW	POST SLEEP	PTV23 S/U (EVA)	CIN 9	EXERCISE	CT WERM	TRANSFER		MEAL	CIN 10	TRANSFER	CT WERM	XFER 2 CWC	CPA INSTALL
	MS1 NOGUCHI		POST SLEEP - GIRA	STS P/B 02 EVA PREP			EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	CMR INSTALL		LAB HX SPD INSTALL		PHOTO DOC	C/U & INGR			
	MS2 ROBINSON		POST SLEEP	STS P/B 02 EVA PREP			EMURGE	EMU P/B	C/L DPRS	EGRS /SETUP	STCN INSTALL		FPMU INSTALL		PHOTO DOC	C/U & INGR			
EXP-6	ISS CDR BOWERSOX		POST SLEEP		DPC	PREP WORK	TRANSFER	EXERCISE TVIS	TRANSFER		MEAL	HANDOVER		XFER	CPA INSTALL				
	FE-1 BUDARIN		POST SLEEP		DPC	PREP WORK	* TRANSFER	LBNP	TRANSFER		MEAL	HAND OVER	TRANSFER	EXERCISE TVIS	HANDOVER				
	FE-2 PETTIT		POST SLEEP	STS P/B 02 EVA PREP			EMURGE	EMU P/B	C/L DPRS	EXERCISE IRED+TVIS	MEAL	HANDOVER	TRANSFER	EXERCISE CEVIS	MDDK XFER				
EXP-7	ISS CDR E7 MALENCHENKO		SLEEP	POSTSLEEP-ISS	DPC	PREP WORK	TRANSFER	UNGRPL LAB PDGF	EVA SSRMS SUPPORT			MT XLATION TO WS4	EVA SSRMS SUPPORT	GRPL LAB PDGF	EXERCISE CEVIS				
	FE-1 EXP7 LU		SLEEP	POSTSLEEP-ISS	DPC	P W R O R E P K	DWR SWAP	EXERCISE CEVIS	UNGRPL LAB PDGF	EVA SSRMS SUPPORT			C M R C K	MT XLATION TO WS4	EVA SSRMS SUPPORT	GRPL LAB PDGF	HANDOVER		
	FE-2 EXP7 MOSCHENKO		SLEEP	POST SLEEP	STS P/B 02 EVA PREP			LBNP	TRANSFER	EXERCISE CEVIS	MEAL	HANDOVER		MDDK XFER					
MCC-H																			
ORB ATT																			
DAY/NIGHT																			
ORBIT																			
DAILY ORBIT																			
TDRS																			
E -47.0 W -171.0																			
NOTES																			
*TERM *TERM *LAB PL CK *MCC-M EVA1 INH COMPL 2-18A																			
FLT PLN/114/BAS																			

MET Day 007 12 13 14 15 16 17 18 19 20 21 22 23 008/00

GMT 230 01/24/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU S-BD	

K U S Y		
	PPS-SA 4B-SHUNT	PPS-SA 4B-SHUNT  PPS-SA 4B-SHUNT  PPS-SA 4B-SHUNT  PPS-SA 4B-SHUNT  PPS-SA 4B-SHUNT

S B D	MSS-POWERUP	MSS-POWERUP
	10.2 PSI OPS INIT	10.2 PSI OPS INIT
	AUDIO-DOCK OPS-DCNFG	AUDIO-DOCK OPS-DCNFG
	AUDIO-UHF OPS-CNFG	AUDIO-UHF OPS-CNFG
	UHF-1-ACT	UHF-1-ACT
	PPS-PCU-CW-ENA	PPS-PCU-CW-ENA
	PPS-SHUNT CMD-TT U/L	PPS-SHUNT CMD-TT U/L
	CAM-COLOR-BALANCE	CAM-COLOR-BALANCE
	ISS-DPRS-INA/ENA	ISS-DPRS-INA/ENA
	10.2 PSI OPS TERM	10.2 PSI OPS TERM
	ISS-RAP DPRS-INH	ISS-RAP DPRS-INH
	ACS-DESAT-INH	ACS-DESAT-INH
	ISS-RAP DPRS-ENA	ISS-RAP DPRS-ENA
	STBD CAMERA/FPMU-C/O	STBD CAMERA/FPMU-C/O
	ACS-DESAT-ENA	ACS-DESAT-ENA

U P L S R	PCG STES-010-GROWTH	PCG STES-010-GROWTH
	ARCT1-SYS-NOMPWR	ARCT1-SYS-NOMPWR
	ARCT2-SYS-NOMPWR	ARCT2-SYS-NOMPWR
	EXPRS1-SYS-PWR/THERM	EXPRS1-SYS-PWR/THERM
	EXPRS4-SYS-PWR/THERM	EXPRS4-SYS-PWR/THERM
	MAMS-P/L-NOM OPS	MAMS-P/L-NOM OPS
	SAMS-ICU/D1-OPS	SAMS-ICU/D1-OPS
	SAMS-RTS/D1-OPS	SAMS-RTS/D1-OPS
	SAMS-RTS/D2-OPS	SAMS-RTS/D2-OPS
	CPCG-H-CRYSTAL-GRTH	CPCG-H-CRYSTAL-GRTH

M C C	MCC-M EVA1 INH COMPL	MCC-M EVA1 INH COMPL

ISS ATT

ISS RS GND

NOTES

GMT 01/25/03  
 MET [FD9] Day 008

		04		05		06		07		08		09		10		11		12		13		14		15	
STS-114	CDR COLLINS	* C/P LRS	POST EVA W/H2O & MTX				PRE SLEEP	PMC OCA	PRE SLEEP				SLEEP												
	PLT KELLY	◆ ⊕	PRE SLEEP				XTFAEGRUP		XCFAELRL		PRE SLEEP				SLEEP										
	MS1 NOGUCHI	C&I/UNGR	C/P LRS	POST EVA W/H2O & MTX				WATCH		PRE SLEEP - GIRA				SLEEP											
	MS2 ROBINSON	C&I/UNGR	C/P LRS	POST EVA W/H2O & MTX				WATCH		PRE SLEEP				SLEEP											
EXP-6	ISS CDR BOWERSOX	◆	EXERCISE IRED+TVIS				DPC	PRE SLEEP				SLEEP													
	FE-1 BUDARIN	HANDOVER		MDDK XFER		DPC	PRE SLEEP				SLEEP														
	FE-2 PETTIT	MXDFDELKR	C/P LRS	POST EVA W/H2O & MTX				DPC	PRE SLEEP				SLEEP												
EXP-7	ISS CDR E7 MALENCHENKO	MDDK XFER		PLN RW		DPC	PRESLEEP-ISS				SLEEP														
	FE-1 EXP7 LU	HANDOVER		IMS	PLN RW		DPC	PRESLEEP-ISS				SLEEP													
	FE-2 EXP7 MOSCHENKO	MDDK XFER	POST EVA W/H2O & MTX				DPC	PRESLEEP-ISS				SLEEP													
MCC-H																									
ORB ATT		BIAS -XLV +ZVV																							
DAY/NIGHT		[Day/Night Cycle]																							
ORBIT		[Orbit Cycle]																							
DAILY ORBIT		126	127	128	129	130	131	132	133	134															
TDRS		E -47.0	[TDRS Schedule]																						W -171.0
NOTES		◆IVA SUPPORT ⊕EVA COMM DCNFG ◆CPA INSTALL 2-19A FLT PLN/114/BAS																							



MET Day 008 008/00

GMT 230 01/25/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
	TDRS KU S-BD	
K U S Y	OCA-MAIL-SYNC	----- OCA-MAIL-SYNC
S B D	MSS-POWERDOWN	----- MSS-POWERDOWN
	LTL/CCAA-METOX-CNFG	----- LTL/CCAA-METOX-CNFG
	PPS-PCU-CW-INH	----- HPPS-PCU-CW-INH
	C&DH-PPL-NOM-U/L	----- C&DH-PPL-NOM-U/L
	AUDIO-UHF OPS-DCNFG	----- HAUDIO-UHF OPS-DCNFG
	UHF-1-DEACT	----- UHF-1-DEACT
	IFHX-POST-SPD-RCNFG	----- IFHX-POST-SPD-RCNFG
	IATCS-N1-MTL-CHG	----- IATCS-N1-MTL-CHG
	ITCS-POST-SPD-RCNFG	----- ITCS-POST-SPD-RCNFG
	C&DH-OIU 5.1C-LOAD	----- HC&DH-OIU 5.1C-LOAD
	PPS-2B-BATT-DUMP	----- PPS-2B-BATT-DUMP
	N1 CBM PREP DEMATE	----- N1 CBM PREP DEMATE
SBD-KEY-CHG	----- HSBD-KEY-CHG	
C B P I	PCG STES-010-GROWTH	
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
S S R		
I S S	ISS ATT	
	RS GND	
	NOTES	

PCG STES-  
ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L-  
SAMS-ICU/  
SAMS-RTS/  
SAMS-RTS/  
CPCG-H-CF  
PCG STES-

GMT 01/25/03 12 16 17 18 19 20 21 22 23 01/26 01 02 03  
 MET Day 008 12 13 14 15 16 17 18 19 20 21 22 23 009/00

STS-114	CDR COLLINS	FD10		POST SLEEP	PTV21 S/U	PEVA EVENT	CINW CIT11	EXERCISE	CTW ERM	SSA FA FER	EVA TOOL STOW	RNDZ PGSC S/U	RNDZ TOOLS C/O	PTV22 S/U SSRMS	CINW CIT12	MEAL	CTW ERM	XFER 2 CWC	HC 2 OF G	*
	PLT KELLY	POST SLEEP	XFER REVIEW	CNFG MPLM RACKS	XTFA EGUR	XCAF ELRL	MDPE LACT	VESTIBULE CONFIG	VEST DEPRESS	UMPN BD GSG RPL	SSRMS GRAPL	MEAL	MPLM UNINSTL	MPLM BERTH	MPLM GRP					
	MS1 NOGUCHI	POST SLEEP - GIRA	ASPRN	CNFG MPLM RACKS	POST EVA EMU XFER	SSA FA FER	EVA TOOL STOW	PCG-STES 10 TRANSFER	MEAL	NODE 1 CBM DEMATE	EXERCISE	PTV21 S/U 802	®							
	MS2 ROBINSON	POST SLEEP	ASPRN	02 XFER S/U	02HPT	METOX	POST EVA EMU XFER	EXERCISE	RNDZ PGSC S/U	RNDZ TOOLS C/O	MEAL	SSRMS GRAPL	NODE 1 CBM DEMATE	MPLM UNINSTL	MPLM BERTH	UN GRP				
EXP-6	ISS CDR BOWERSOX	POST SLEEP	DPC	02 XFER S/U	02HPT	MPLM CLEANUP	MEGR MS	MDPE LACT	VESTIBULE CONFIG	VEST DEPRESS	MEAL	HANDOVER	EXER CISE IRED TVIS							
	FE-1 BUDARIN	POST SLEEP	DPC	PSOL STEP Δ	MDDK XFER	PEVA EVENT	EXERCISE IRED+TVIS	HANDOVER	PCG-STES 10 TRANSFER	MEAL	HANDOVER	EXER CISE CEVIS								
	FE-2 PETTIT	POST SLEEP	DPC	PSOL STEP FILL	LAB CWC MDDK XFER	PEVA EVENT	EXERCISE IRED+TVIS	HANDOVER	MEAL	HANDOVER										
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POST SLEEP-ISS	PREP WORK	DPC	EXERCISE IRED+TVIS	MDDK XFER	HANDOVER	MEAL	HANDOVER	MDDK XFER									
	FE-1 EXP7 LU	SLEEP	POST SLEEP-ISS	PREP WORK	DPC	02 XFER S/U	02HPT	MDDK XFER	HANDOVER	EXERCISE IRED+TVIS	MEAL	HANDOVER	CSLM2							
	FE-2 EXP7 MOSCHENKO	SLEEP	POST SLEEP-ISS	PREP WORK	DPC	MDDK XFER	PEVA EVENT	MDDK XFER	NTXN FE2 CLCT & B/U	EXERCISE IRED+TVIS	HC RMT FTL*	HANDOVER	MEAL	HANDOVER	MDDK XFER					

MCC-H  
ORB ATT BIAS -XLV +ZVV

DAY/NIGHT	134		135		136		137		138		139		140		141	
ORBIT	15		1		2		3		4		5		6		7	
DAILY ORBIT	E -47.0		W -171.0													
TDRS																

NOTES \*SALIVA ΔLAB PL CK \*TERM ♦MPLM EGRS \*END \*ACT ♦DSO 802  
 2-20A ▲BMP Φ1 MNT END @APCU 1\*  
 ΦMCC-M EVA2 INH COMPL FLT PLN/114/BAS ^HTR ON @DSO 802

MET Day 008 12 13 14 15 16 17 18 19 20 21 22 23 009/00

GMT 231 01/25/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
K U S Y	TDRS	KU S-BD
D B P S	MSS-POWERUP	-----  MSS-POWERUP
	UHF-1-ACT	-----  UHF-1-ACT
	AUDIO-UHF OPS-CNFG	-----  AUDIO-UHF OPS-CNFG
	A/L CCAA CONFIG	-----  A/L CCAA CONFIG
	PPS-SHUNT CMD-TT U/L	-----  PPS-SHUNT CMD-TT U/L
	CAM-COLOR-BALANCE	-----  CAM-COLOR-BALANCE
	LTL/CCAA-METOX-CNFG	-----  LTL/CCAA-METOX-CNFG
	AR-MCA-PPL	-----  AR-MCA-PPL
	SBD-KEY-CHG	-----  SBD-KEY-CHG
	ACS-DESAT-INH	-----  ACS-DESAT-INH
ACS-DESAT-ENA	-----  ACS-DESAT-ENA	
SSRMS-VIDEO-DEROUTE	-----  SSRMS-VIDEO-DEROUTE	
PPS-PCU-CW-INH	-----  PPS-PCU-CW-INH	
M C P S	PCG STES-010-GROWTH	-----  PCG STES-010-GROWTH
	ARCT1-SYS-NOMPWR	
	ARCT2-SYS-NOMPWR	
	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH		
CPO/PRO-PCG-CMD	-----  CPO/PRO-PCG-CMD	
M C C	MCC-M EVA2 INH COMPL	-----  MCC-M EVA2 INH COMPL
ISS ATT		
ISS	RS GND	
NOTES		

ARCT1-SYS  
ARCT2-SYS  
EXPRS1-SYS  
EXPRS4-SYS  
MAMS-P/L  
SAMS-ICU  
SAMS-RTS  
SAMS-RTS  
CPCG-H-CR  
PCG STES-

GMT 01/26/03 009/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET FD10 Day 009

STS-114	CDR COLLINS	DSO 802		PMC OCA	PRE SLEEP	MPLM	PRE SLEEP	SLEEP	
	PLT KELLY			PRE SLEEP *	PRE SLEEP	XFAFELR XFAFELR XFAFELR	PRE SLEEP	SLEEP	
	MS1 NOGUCHI	DSO 802			PRE SLEEP - GIRA			SLEEP	
	MS2 ROBINSON		OT 2	OT 2	OT 2	OT 2	PRE SLEEP	SLEEP	
EXP-6	ISS CDR BOWERSOX	EXERCISE IRED TVIS	OT 2	OT 2	DPC		PRE SLEEP	SLEEP	
	FE-1 BUDARIN	EXERCISE CEVIS		MDDK	DPC		PRE SLEEP	SLEEP	
	FE-2 PETTIT	EXERCISE TVIS			DPC		PRE SLEEP	SLEEP	
EXP-7	ISS CDR E7 MALENCHENKO	MDDK XFER	PLN RVW	DPC	PREP WORK	PMC	PRESLEEP-ISS	SLEEP	
	FE-1 EXP7 LU	CA R C T 2 S R C T 2 M T T 2	PLN RVW	DPC	PREP WORK	PMC	PRESLEEP-ISS	SLEEP	
	FE-2 EXP7 MOSCHENKO	IMS	PLN RVW	DPC	PREP WORK	PMC	PRESLEEP-ISS	SLEEP	
MCC-H		MPLM							
ORB ATT		BIAS -XLV +ZVV							
DAY/NIGHT									
ORBIT		142	143	144	145	146	147	148	149
DAILY ORBIT		8	9	10	11	12	13	14	15
TDRS		E -47.0							
		W -171.0							
NOTES		⊕MDDK XFER	*APCU 1*	^HTR OFF	2-21A			FLT PLN/114/BAS	
			*APCU 1 DEACT						

MET Day 009 009/00

GMT 231 01/26/03

I S S	DAY/NIGHT	
	ORBIT	
	DAILY ORBIT	
K U S	TDRS	KU S-BD
	OCA-MAIL-SYNC	OCA-MAIL-SYNC
D B S	C&DH-OIU 7C-LOAD	HC&DH-OIU 7C-LOAD
	MPLM-ENV-CHECK	IMPLM-ENV-CHECK
	A/L CCAA CONFIG	A/L CCAA CONFIG
	UHF-1-DEACT	UHF-1-DEACT
	MSS-POWERDOWN	MSS-POWERDOWN
	SBD-KEY-CHG	HSBD-KEY-CHG
U P O R T S	GNC-PPL-UPDATE	GNC-PPL-UPDATE
	ACS-CCDB PARAM-U/D	IACS-CCDB PARAM
	ARCT1-SYS-NOMPWR	ARCT1-SYS-NOMPWR
	ARCT2-SYS-NOMPWR	ARCT2-SYS-NOMPWR
	EXPRS1-SYS-PWR/THERM	EXPRS1-SYS-PWR/THERM
	EXPRS4-SYS-PWR/THERM	EXPRS4-SYS-PWR/THERM
	MAMS-P/L-NOM OPS	MAMS-P/L-NOM OPS
	SAMS-ICU/D1-OPS	SAMS-ICU/D1-OPS
	SAMS-RTS/D1-OPS	SAMS-RTS/D1-OPS
	SAMS-RTS/D2-OPS	SAMS-RTS/D2-OPS
CPCG-H-CRYSTAL-GRTH	CPCG-H-CRYSTAL-GRTH	
PCG STES-009-GROWTH	PCG STES-009-GROWTH	
C C M	MPLM-ENV-CHECK	IMPLM-ENV-CHECK
	ISS ATT	
ISS	RS GND	
	NOTES	

GMT 01/26/03 12 16 17 18 19 20 21 22 23 20 01/27 21 01 22 02 23 03 010/00  
 MET Day 009

STS-114	CDR COLLINS	FD11 POST SLEEP				FWA AREL	EGRS HATCH CLS	ODS VEST LK CK	GMP RRL BUP	ATT HOB	MUN VDR CK	UNDOCK OPS	SEP	MDC VMP RPI	MEAL	OFF DUTY	PFC	SIMO TERM
	PLT KELLY	POST SLEEP	P/TV 20 S/U	XFA FEG RUP	XFA FEL	FWA AREL	EGRS HATCH CLS	ODS VEST LK CK	CTO ENR DM	P/TV19 C/L CMR	UNDOCK OPS	GPR PRD BN	RMS RDN	MEAL	APC U1	SIMO INIT	OFF DUTY	
	MS1 NOGUCHI	POST SLEEP - GIRA		PTV21 S/U	FWA AREL	PTV21 OPS (ISS)	EXERCISE	P/TV19 C/L CMR	UNDOCK OPS	CIS OIS MOR CT	MEAL	OFF DUTY						
	MS2 ROBINSON	POST SLEEP			FWA AREL	HL AUD B/O	EXERCISE	UNDOCK OPS	GPR PRD BN	PIO ILF	MEAL	OFF DUTY	PFC	OFF DUTY				
EXP-6	ISS CDR BOWERSOX	POST SLEEP	DPC	POST SLEEP	FWA AREL	EXERCISE	UNDOCK OPS	MEAL	OFF DUTY									
	FE-1 BUDARIN	POST SLEEP	DPC	POST SLEEP	FWA AREL	MDD K	UNDOCK OPS	MEAL	OFF DUTY	PFC	OFF DUTY							
	FE-2 PETTIT	POST SLEEP	DPC	POST SLEEP	FWA AREL	P/TV20 OPS	VTR PB ACT	VTR PB	MEAL	PFC	OFF DUTY	EXER CISE						
EXP-7	ISS CDR E7 MALENCHENKO	SLEEP	POSTSLEEP	DPC	PREP WORK	EGRS HATCH CLS	EXERCISE IRED	PMA2 DPIT	PFC	MEAL	⊗							
	FE-1 EXP7 LU	SLEEP	POSTSLEEP	DPC	PREP WORK	EXERCISE TVIS	COX-MNT	MEAL	PMA2-DEPRESS									
	FE-2 EXP7 MOSCHENKO	SLEEP	POSTSLEEP	DPC	PREP WORK	EXERCISE IRED	MEAL	EXERCISE TVIS	Δ									
MCC-H		M																
DAY/NIGHT		[Bar chart showing day/night cycle]																
ORB ATT		BIAS -XLV +ZVV																
ISS ATT		UNDOCK																
ORBIT		-ZLV +YVV																
DAILY ORBIT		15	150	151	152	153	154	155	156	157	157							
TDRS		E -47.0	[Bar chart showing TDRS events]															W -171.0
NOTES		♦SALIVA      ▼LAB PL CK    ⊙COND SAMPLE    VUNDOCK    ⊕PPS-SA-AUTOTRACK    *APCU 1 DEACT    *COND CWC ▲PPS-SA-AUTOTRACK    *CMG TO STS    ⊖ISS MODE-STND-XTION    *PPS-SA-P6-RATE    ⊗EXERCISE TV •ISS MODE-PROX-XTION    ^HTR ON    *ACT    *ACT    ΔHRMFL CNTMT 2-22A    FLT PLN/117    *COMM 1 STRING C/O																

\* UNDOCK 9/18:24

MET Day 009 12 13 14 15 16 17 18 19 20 21 22 23 010/00

GMT 231 01/26/03

I S S	DAY/NIGHT	
	ORBIT	
S	DAILY ORBIT	
	TDRS	KU S-BD

K U S Y	C-COGB-COMBINED MODE	
	Φ-COGB-COMBINED MODE	

S D B	CDRA DEACT	
	IATCS-LTL-STPT-CHG	
S	PPS-SA-AUTOTRACK	
	ACS-PRE-DPRT-CNFG	
S	GNC-MP-INCORP	
	ACS-CMG/STS ATT-H/O	
S	ACS-POST-DPRT-CNFG	
	MSS-POWERUP	
S	ACS-ATT-CCDB-INCORP	
	CAM-COLOR-BALANCE	
S	VDS-VIDEO-CNFG	
	ISS-PWR-DWN	
S	ISS-GPS-SHUTDOWN	
	ISS-GPS-STARTUP	
S	PPS-SA 4B-FTHR	
	ISS-PWR UP	
S	PPS-SA-P6-RATE	
	MPLM-PRES-CK	
S	ISS-PWR-UP	
	PPS-P6-SA-4B-AUTO	
S	ACS-MM-PREP & ACT	
	ACS-CCDB PARAM-U/D	
S	PMA2-HTR-RECONFIG	
	VDS-VIDEO-DCNFG	
S	SSRMS-VIDEO-DEROUTE	

U S T A B I L I T Y	EXPRS1-SYS-PWR/THERM	
	EXPRS4-SYS-PWR/THERM	
	MAMS-P/L-NOM OPS	
	SAMS-ICU/D1-OPS	
	SAMS-RTS/D1-OPS	
	SAMS-RTS/D2-OPS	
	CPCG-H-CRYSTAL-GRTH	
	PCG STES-009-GROWTH	

S T A B I L I T Y	ISS MODE-PROX-XTION	
	FGB ARCU 53 ACT	
S	FGB ARCU 53 DEACT	
	СУДН-ОГНИ-LIGHTS ON	
S	Φ-COCB-CБ-FEATHER	
	C-COCB-CБ-FEATHER	
S	ISS MODE-STND-XTION	

M C C	PPS-SA-AUTOTRACK	
	ISS MODE-PROX-XTION	
M	UNDOCK	
	ISS MODE-STND-XTION	
M	PPS-SA 4B-FTHR	
	PPS-SA-P6-RATE	
M	MPLM-PRES-CK	

ISS	ISS ATT	
ISS	RS GND	

\*CMG TO STS

NOTES	2-22B	FLT PLN/114/BAS
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GMT 01/27/03 010/00 04 01 05 02 06 03 07 04 08 05 09 06 10 07 11 08 12 09 13 10 14 11 15 12  
 MET Day 010

STS-114	CDR COLLINS	COND CWC DUMP	M-NZMLV R V L U M	EXERCISE	PRE SLEEP	PMC OCA	SLEEP		
	PLT KELLY	OFF DUTY	PFC	PRE SLEEP	EXERCISE	PRE SLEEP	SLEEP		
	MS1 NOGUCHI	OFF DUTY		PRE SLEEP - GIRA	PFC	PRE SLEEP	SLEEP		
	MS2 ROBINSON	OFF DUTY		PRE SLEEP			SLEEP		
	MS3 BOWERSOX	OFF DUTY	MDDK	PMCPFC	PRE SLEEP		SLEEP		
	MS4 BUDARIN	EXERCISE		PMC	PRE SLEEP		SLEEP		
	MS5 PETTIT	EXERCISE	OFF DUTY	PMC	PRE SLEEP		SLEEP		
MCC-H	DAY/NIGHT								
ORBIT	157	158	159	160	161	162	163	164	165
DAILY ORBIT	8	9	10	11	12	13	14	15	16
ORB ATT	-ZLV -XVV-								
TDRS	E -47.0 W -171.0								
MIL DFR	^HTR OFF								
NOTES	2-23A				FLT PLN/114/BAS				



MET Day 010 010/00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

GMT 231 01/27/03

I S S	DAY/NIGHT												
	ORBIT												
	DAILY ORBIT												
	TDRS	S-BD KU											
E X P - 7	CDR EXP7	*		PLN RVW	DPC	PRESLEEP-ISS						SLEEP-ISS	
	FE-1 EXP7			PLN RVW	DPC	PRESLEEP-ISS						SLEEP-ISS	
	FE-2 EXP7		IMS	PLN RVW	DPC	PRESLEEP-ISS						SLEEP-ISS	
K U	OCA-MAIL-SYNC												OCA-MAIL-SYNC
S Y													
S B D	SBD-KEY-CHG												HSBD-KEY-CHG
U N D E R P R O G R A M S	EXPRS1-SYS-PWR/THERM												EXPRS1-S
	EXPRS4-SYS-PWR/THERM												EXPRS4-S
	MAMS-P/L-NOM OPS												MAMS-P/L-
	SAMS-ICU/D1-OPS												SAMS-ICU/
	SAMS-RTS/D1-OPS												SAMS-RTS/
	SAMS-RTS/D2-OPS												SAMS-RTS/
	CPCG-H-CRYSTAL-GRTH												CPCG-H-C
STES 009 GROWTH												STES 009	
S R	СЭП-А6-FULL CHRГ												СЭП-А6-FULL
ISS ATT													
ISS	RS GND												
NOTES		*EXERCISE TVIS											

GMT 01/27/03  
 MET [FD12] Day 010

S T S - 1 1 4	CDR COLLINS	FD12	POST SLEEP	POST SLEEP	FCS C/O	RCS H/F	CABIN STOW	PILOT OPS	CABIN STOW	L-1 COMM CHK	PEAVOENT	MEAL	L-1 COMM CHK	D/O BRIEF	CABIN STOW	MPLIM	CS AT BOW IN	EXERCISE	CABIN STOW
	PLT KELLY		POST SLEEP	POST SLEEP	FCS C/O	RCS H/F	PILOT SETUP	PILOT OPS	POST EVA T O U 2 P	EXERCISE	CABIN STOW	MEAL	D/O BRIEF	PTV05 SETUP ENTRY	CABIN STOW				
	MS1 NOGUCHI		POST SLEEP - GIRA		LAUNCH ENTRY SUIT CK	CABIN STOW	EXERCISE	CABIN STOW	POST EVA ENT PREP	CABIN STOW	MEAL	D/O BRIEF	STRNG 2	FILTER CLEANING	CABIN STOW				
	MS2 ROBINSON		POST SLEEP		FCS C/O	RCS H/F	CABIN STOW	PILOT OPS	POST EVA ENT PREP	EXERCISE	MEAL	D/O BRIEF	CABIN STOW			ERGO STOW			
	MS3 BOWERSOX		POST SLEEP		LAUNCH ENTRY SUIT CK	CABIN STOW	EXERCISE	CABIN STOW	PEAVOENT	CABIN STOW	MEAL	D/O BRIEF	CABIN STOW			ERGO STOW			
	MS4 BUDARIN		POST SLEEP		MDDK	LAUNCH ENTRY SUIT CK	CABIN STOW	EXERCISE	CABIN STOW	PEAVOENT	CABIN STOW	MEAL	D/O BRIEF	CABIN STOW					
	MS5 PETTIT		POST SLEEP		LAUNCH ENTRY SUIT CK	CABIN STOW	EXERCISE	PEAVOENT	CABIN STOW	MEAL	D/O BRIEF	CABIN STOW							

MCC-H	[Timeline]																		
DAY/NIGHT	[Timeline]																		
ORBIT	165	166	167	168	169	170	171	172	173										
DAILY ORBIT	16	1	2	3	4	5	6	7	8										
ORB ATT	-ZLV -XVV																		
TDRS	E -47.0 W -171.0																		
MIL	[Timeline]																		
DFR	[Timeline]																		

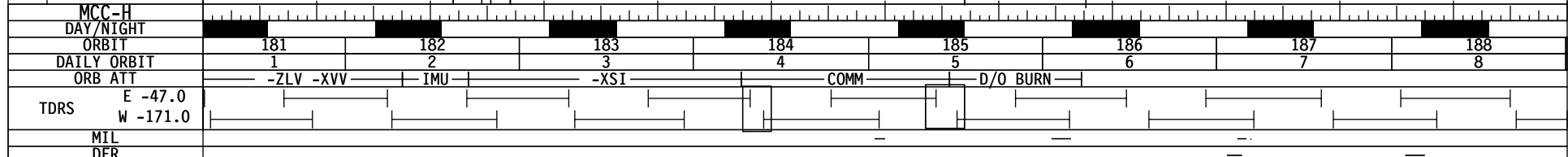
NOTES ^HTR ON \*ACT \*APCU 1 DEACT 2-24 \*INIT ^HTR OFF  
 FLT PLN/114/BAS

GMT 01/28/03  
 MET [FD12] Day 011

		04		05		06		07		08		09		10		11		12		13		14		15											
STS-114	CDR COLLINS	CABIN STOW	PRE SLEEP		PMC A/G	PRE SLEEP		SLEEP															<b>FD13</b>		L	D	S	P	O	L	S				
	PLT KELLY	CABIN STOW	KU STOW	PRE SLEEP		FLTS	PRE SLEEP		SLEEP															L	D	S	P	O	L	S					
	MS1 NOGUCHI	RCMBNT SEAT S/U	PRE SLEEP - GIRA				SLEEP															L	D	S	P	O	L	S							
	MS2 ROBINSON	PGSC STOW PART I	OCA S-BD S/U	PRE SLEEP				SLEEP															L	D	S	P	O	L	S						
	MS3 BOWERSOX	RCMBNT SEAT S/U	PMC	PRE SLEEP				SLEEP															POST SLEEP		L	D	S	P	O	L	S				
	MS4 BUDARIN	RCMBNT SEAT S/U	PMC	M	D	D	K	PRE SLEEP				SLEEP															POST SLEEP		L	D	S	P	O	L	S
	MS5 PETTIT	RCMBNT SEAT S/U	PMC	PRE SLEEP				SLEEP															POST SLEEP		L	D	S	P	O	L	S				
MCC-H	DAY/NIGHT ORBIT																																		
DAILY ORBIT	173		174		175		176		177		178		179		180		181																		
ORB ATT	8		9		10		11		12		13		14		15		1																		
TDRS	E -47.0		W -171.0		-ZLV -XVV																														
MIL DFR	-																																		
NOTES	*TERM 2-25 FLT PLN/114/BAS																																		

GMT 01/28/03 12 16 17 18 19 20 21 22 23 01/29 01 02 03  
 MET [FD13] Day 011 12 13 14 15 16 17 18 19 20 21 22 23 012/00

STS-114	CDR COLLINS	POST SLEEP	MP LPMC MA/G	GP RWR PRUP	IMU ALIGN /VERIF	M- NX VSI	DEORBIT PREP		
	PLT KELLY	POST SLEEP		GP RWR PRUP	PS LSE TEP	SD SE VACT	OS CT AOCW	DEORBIT PREP	
	MS1 NOGUCHI	POST SLEEP			PSE TENT VIT OUR 5PY	GS IT RO AW	DEORBIT PREP	D / O	K S C
	MS2 ROBINSON	POST SLEEP		PG SC STOW PART II	CLR PRT STW		DEORBIT PREP		L
	MS3 BOWERSOX	POST SLEEP		PMC	A IR S A M P		DEORBIT PREP	B U R N	L N D G
	MS4 BUDARIN	POST SLEEP		PMC	T O E P F C		DEORBIT PREP		*
	MS5 PETTIT	POST SLEEP		PMC	M D D K		DEORBIT PREP		



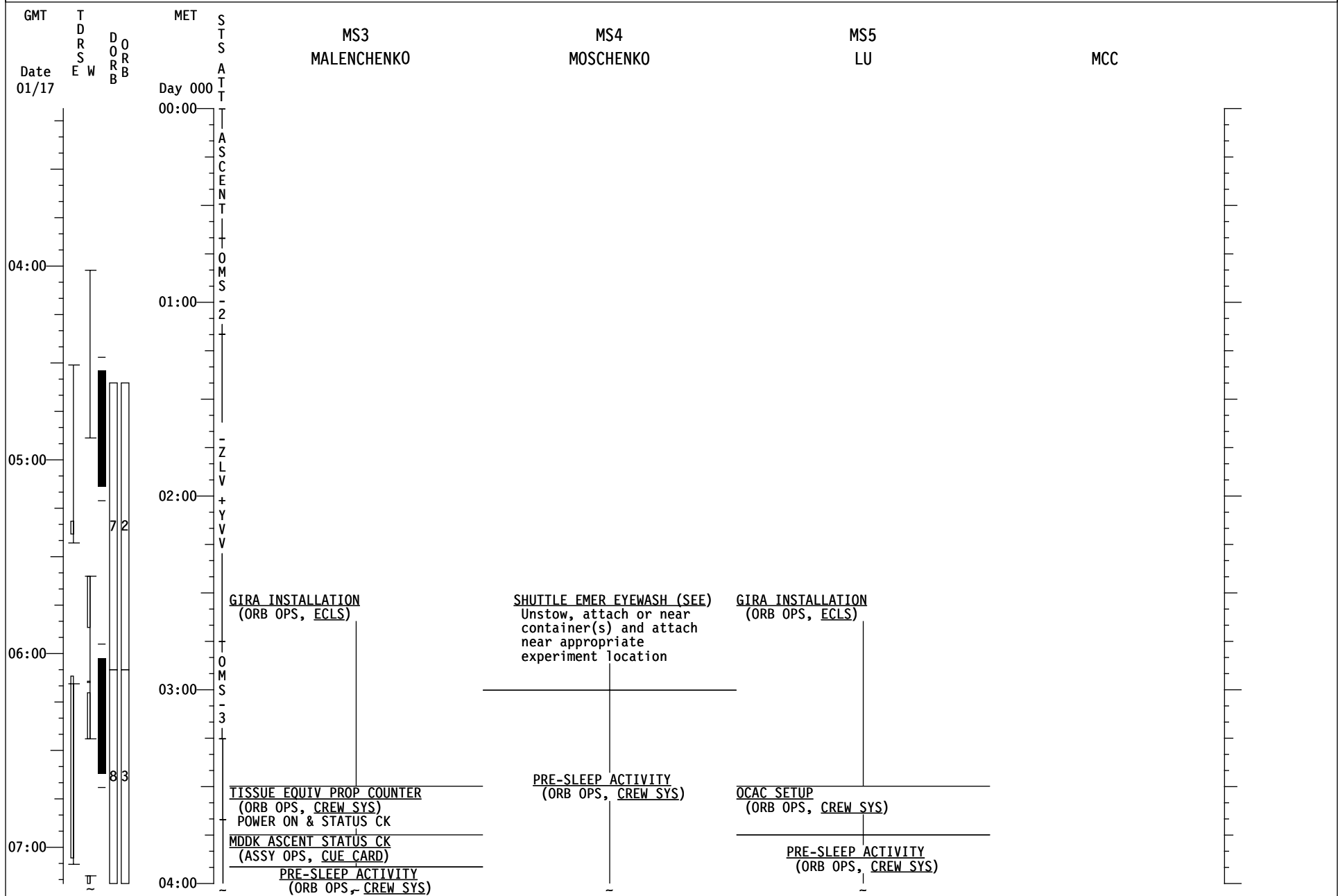
MIL DFR  
 NOTES ^HTR ON  
 2-26  
 D/O TIG 11/18:42  
 \*KSC LNDG 11/19:46  
 FLT PLN/114/BAS

DETAILED TIMELINE

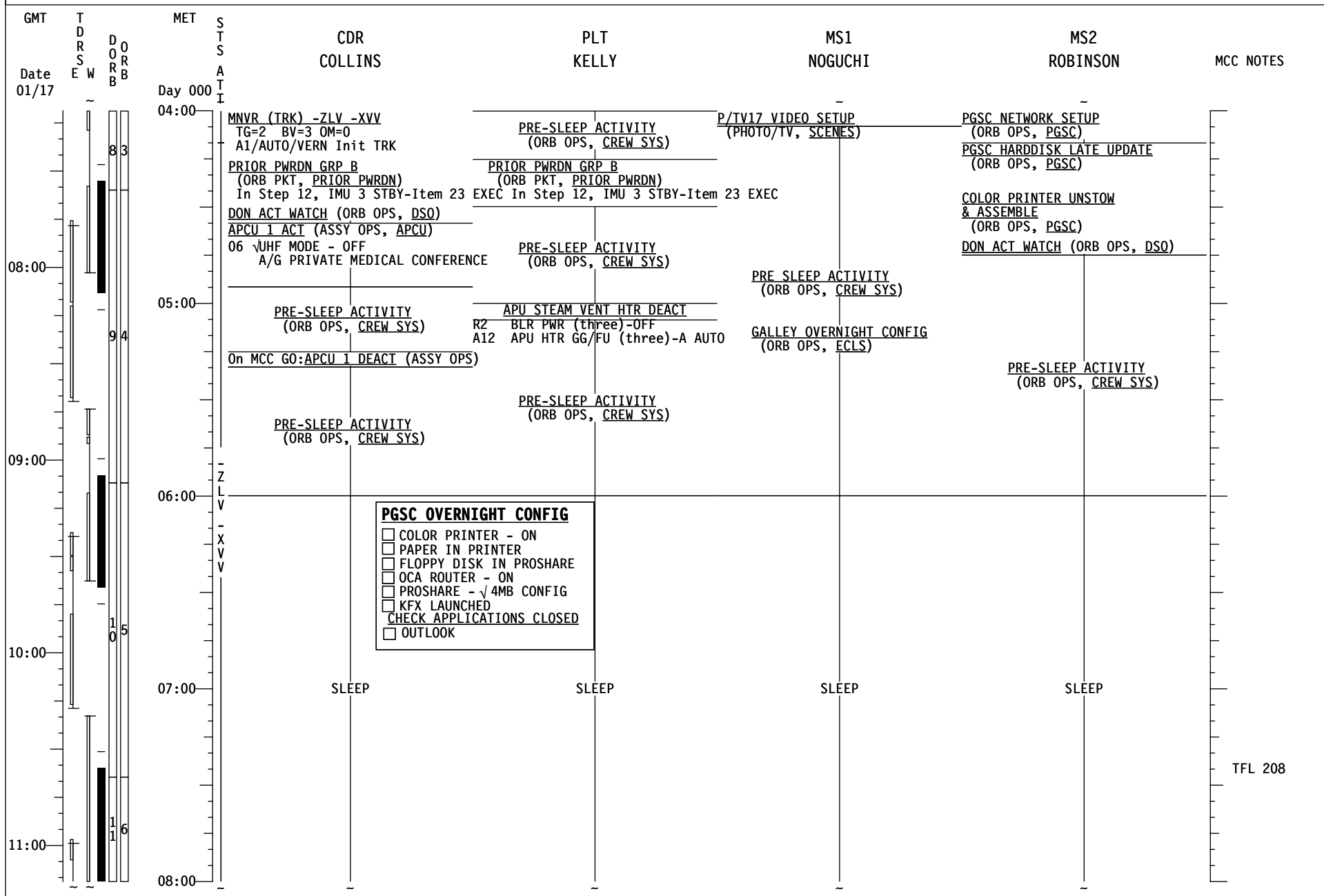
DETAILED  
TIMELINE



# STS-114 ULF1 (FD 01)



# STS-114 ULF1 (FD 01)

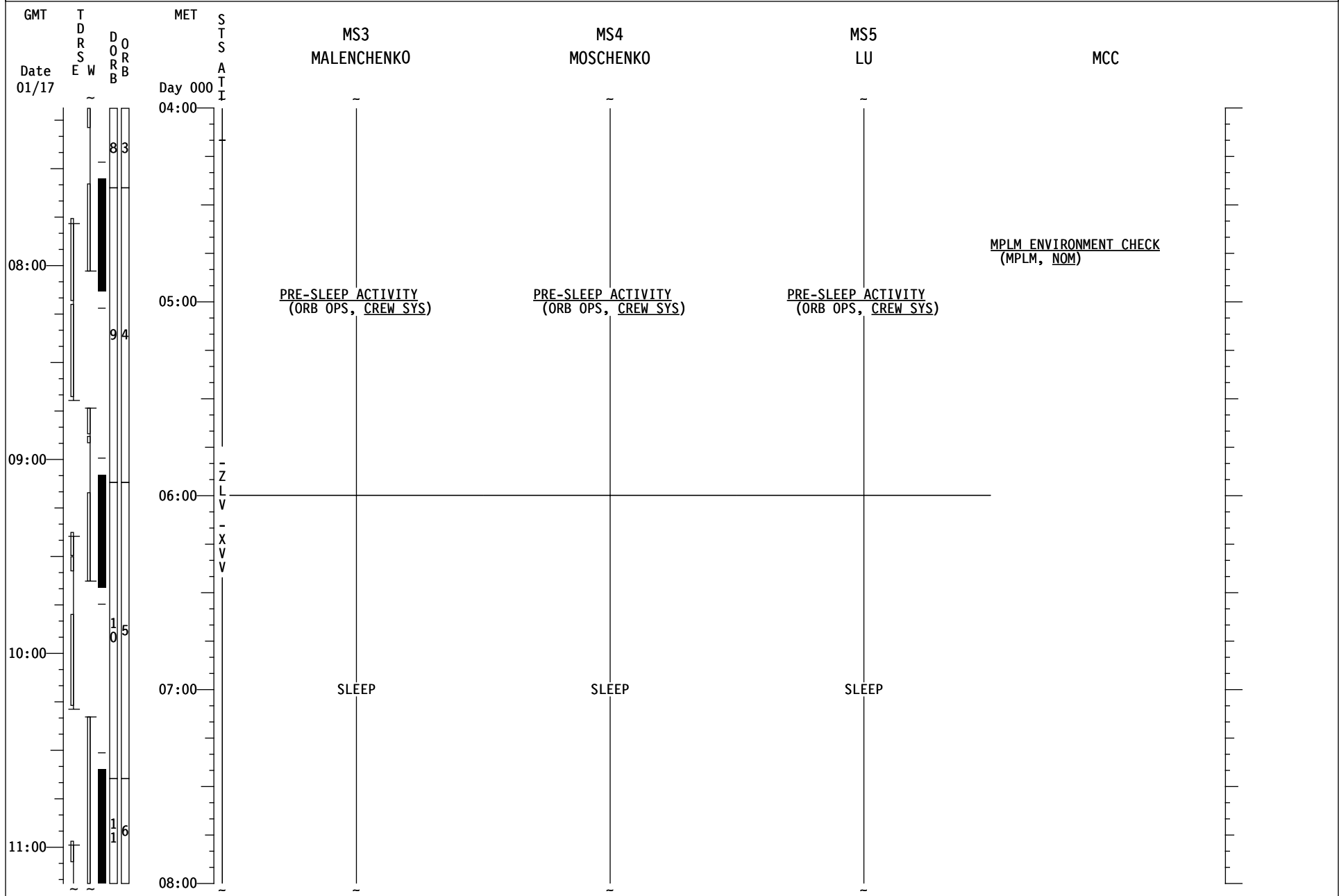


**PGSC OVERNIGHT CONFIG**

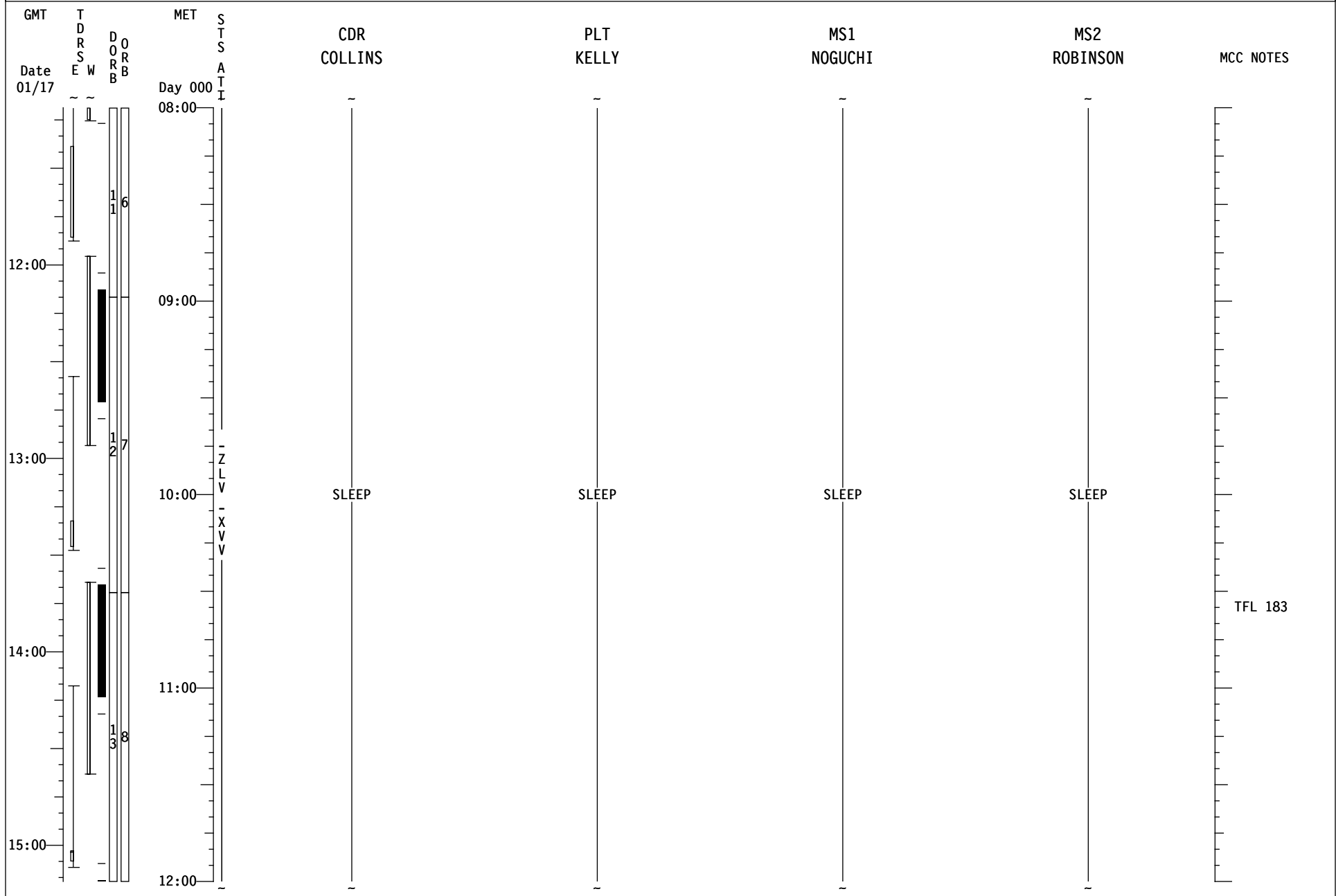
- COLOR PRINTER - ON
- PAPER IN PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - √ 4MB CONFIG
- KFX LAUNCHED
- CHECK APPLICATIONS CLOSED
- OUTLOOK



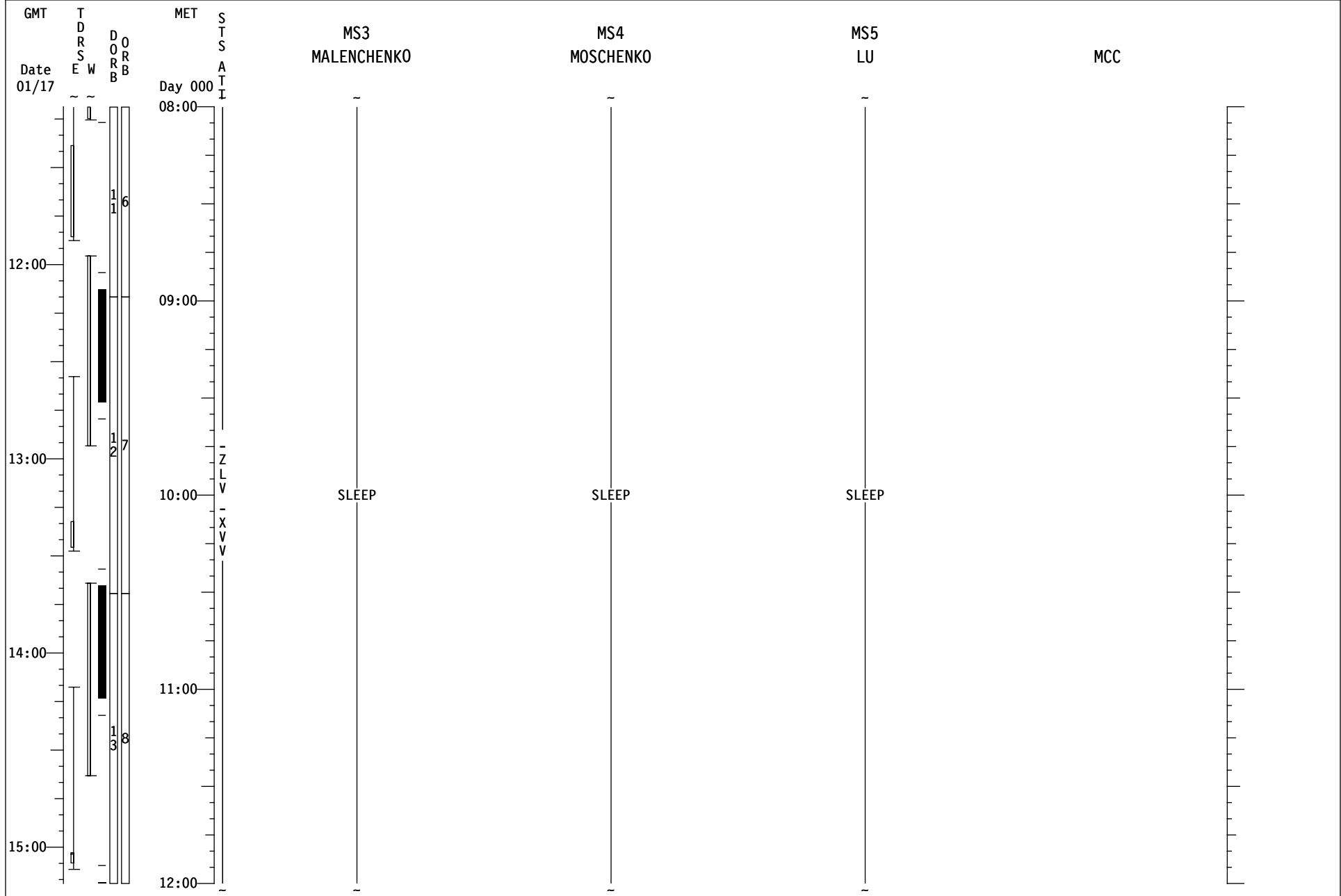
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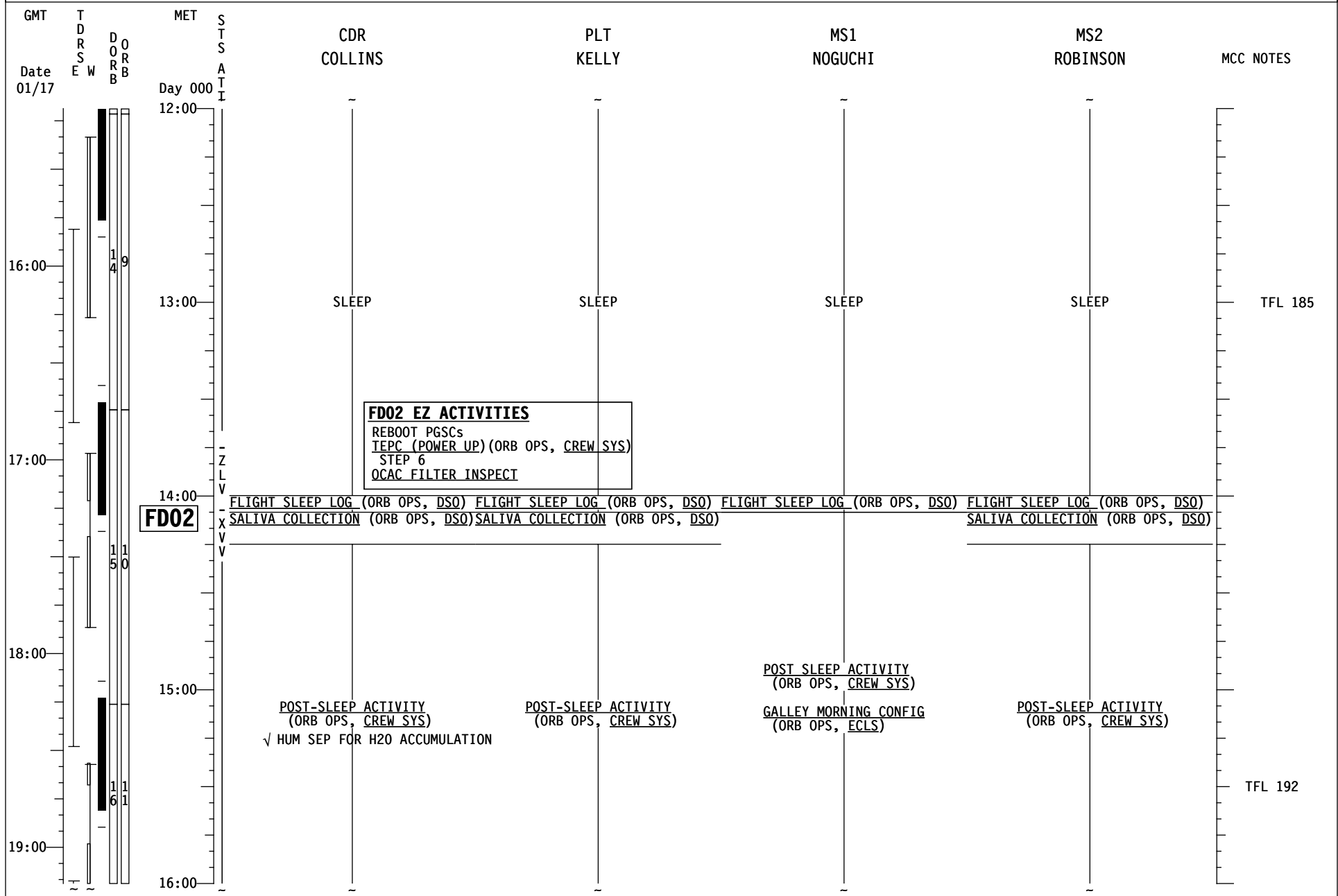
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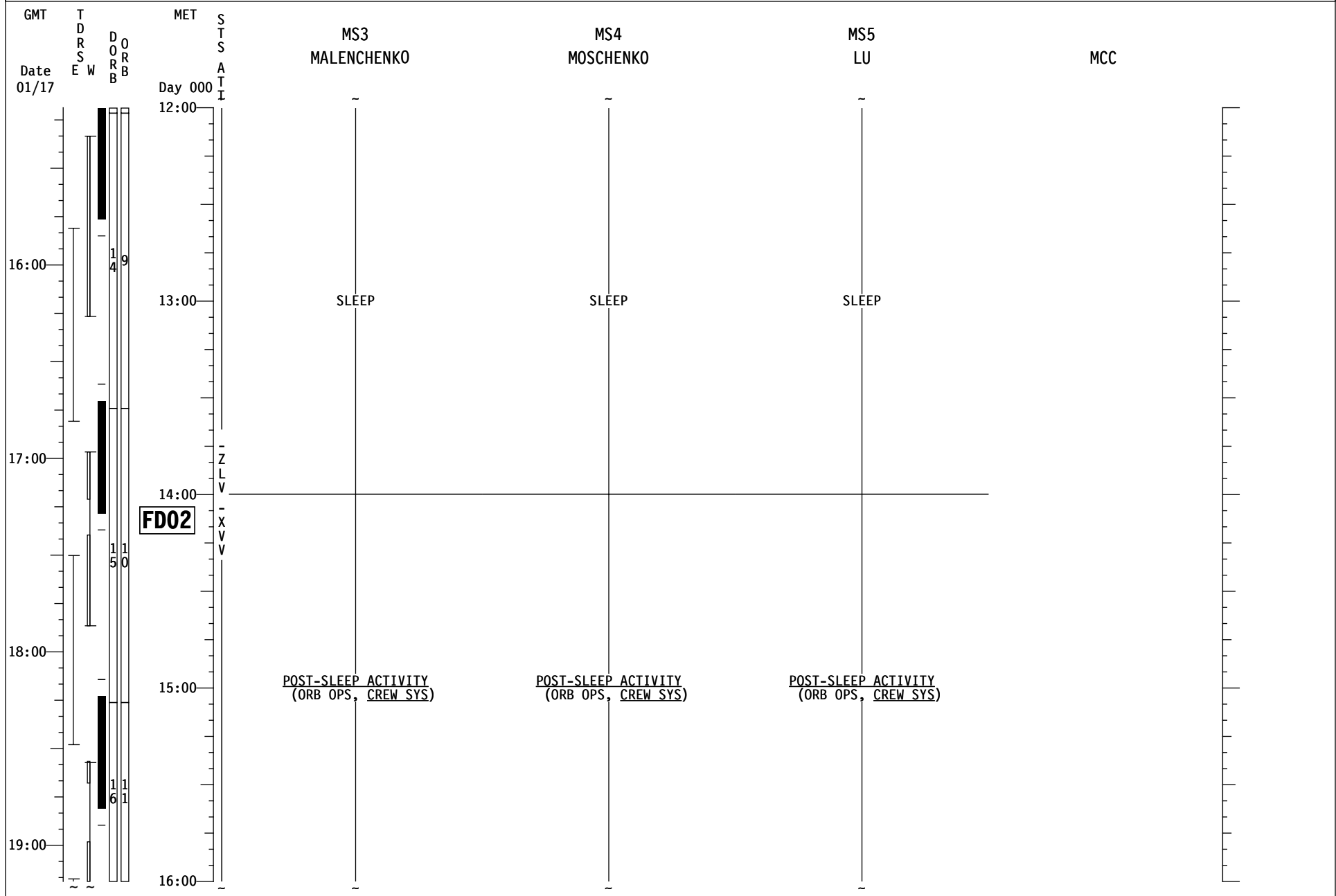
# STS-114 ULF1 (FD 01)



# STS-114 ULF1 (FD 02)



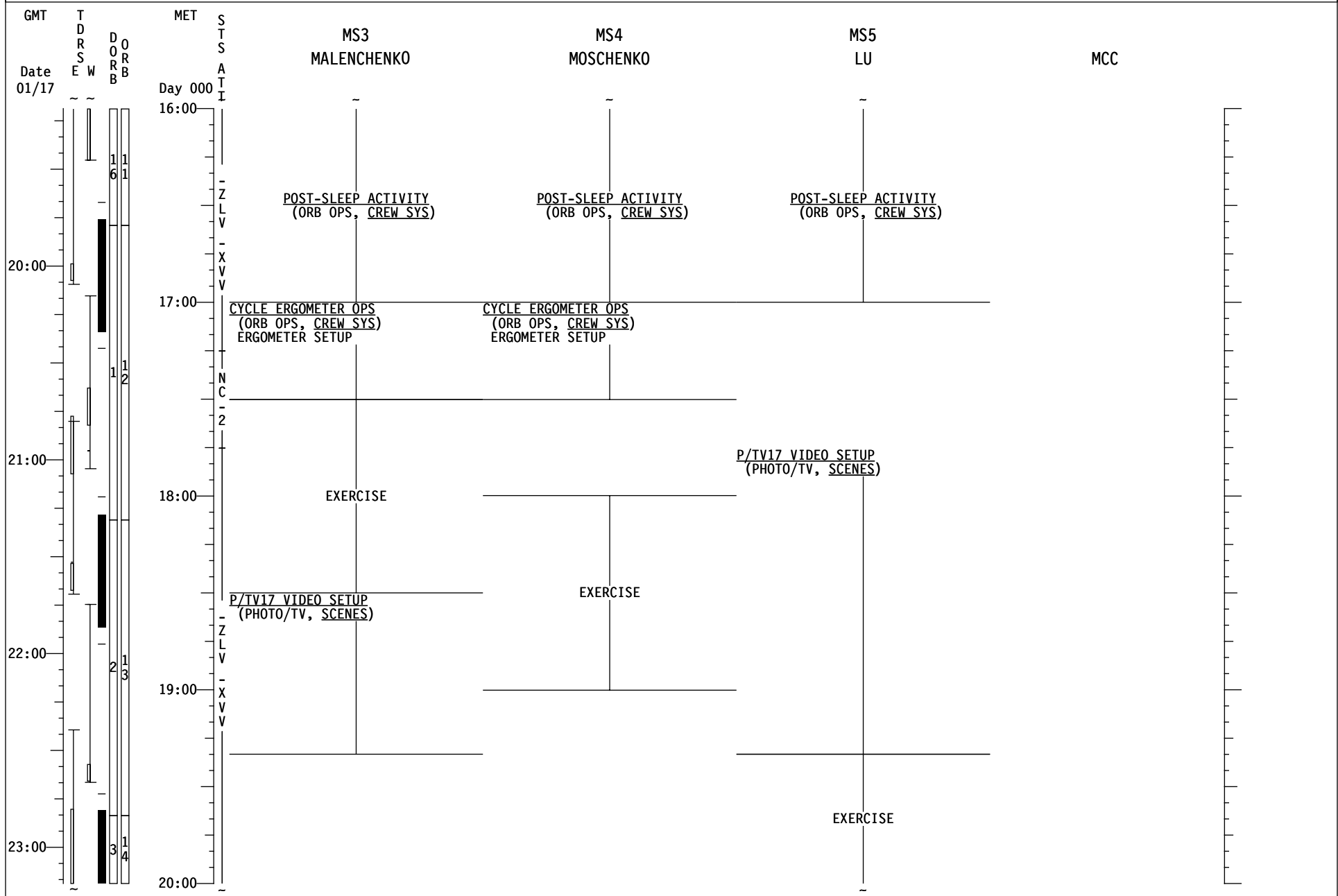
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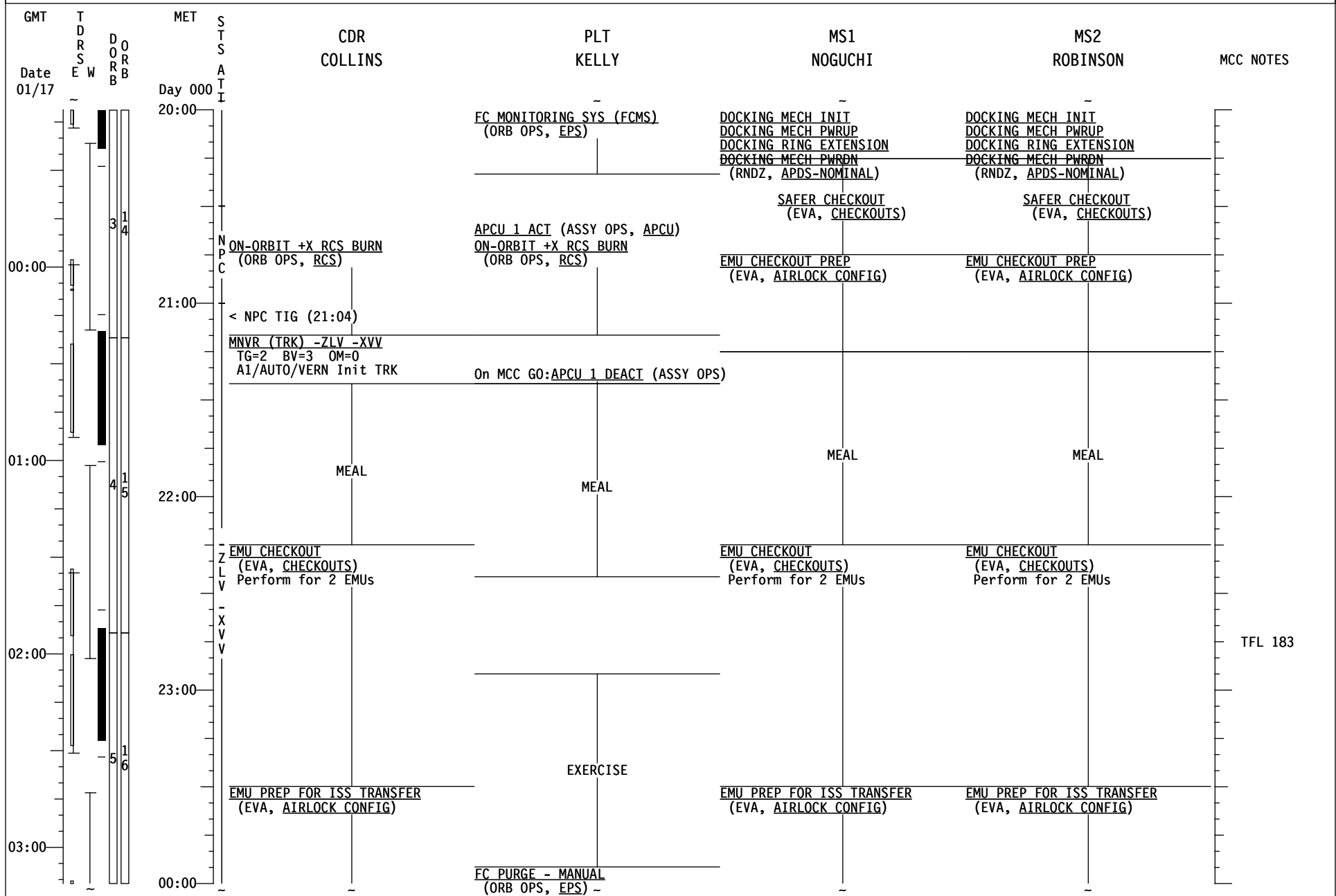
# STS-114 ULF1 (FD 02)

GMT Date 01/17	TDRSEW	DORB	MET Day 000	STS ATTI	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
16:00		11 61		Z L V	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)  GALLEY MORNING CONFIG (ORB OPS, ECLS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
17:00		12		N C	ELEVON PARK(GNC 201) (ORB OPS, GNC)	RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-in-Plan	FILTER CLEANING (IFM, SCHED MAINT) Inspect filters and clean as necessary	MDDK ASCENT STATUS CK (ASSY OPS, CUE CARD)	
21:00		12		2	ON-ORBIT OMS BURN (ORB OPS, OMS)			RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-in-Plan	UPDATE ORBITAL MNVR PAD UPLINK TGT SV
18:00					<NC2 TIG (17:38)				
18:00					MNVR (TRK) -ZLV -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK P/TV20 ISS DOCK/UNDOCK (S/U) (PHOTO/TV, SCENES)	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	P/TV17 VIDEO SETUP (PHOTO/TV, SCENES)	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	
22:00		2 13		Z L V		SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform EQUIP PREP and TEE-HOSE ASSEMBLY PURGE			
19:00				X V V	EXERCISE			EXERCISE	
23:00		3 14			CRYO O2 TK HTR SNSR CK (ORB OPS, EPS)	P/TV19 C/L CAMR INSTALLATION (PHOTO/TV, SCENES)	P/TV19 C/L CAMR INSTALLATION (PHOTO/TV, SCENES)		
20:00						FC MONITORING SYS (FCMS) (ORB OPS, EPS)	DOCKING MECH INIT DOCKING MECH PWRUP DOCKING RING EXTENSION DOCKING MECH PWRDN (RNDZ, APDS-NOMINAL)	DOCKING MECH INIT DOCKING MECH PWRUP DOCKING RING EXTENSION DOCKING MECH PWRDN (RNDZ, APDS-NOMINAL)	TFL 185

# STS-114 ULF1 (FD 02)

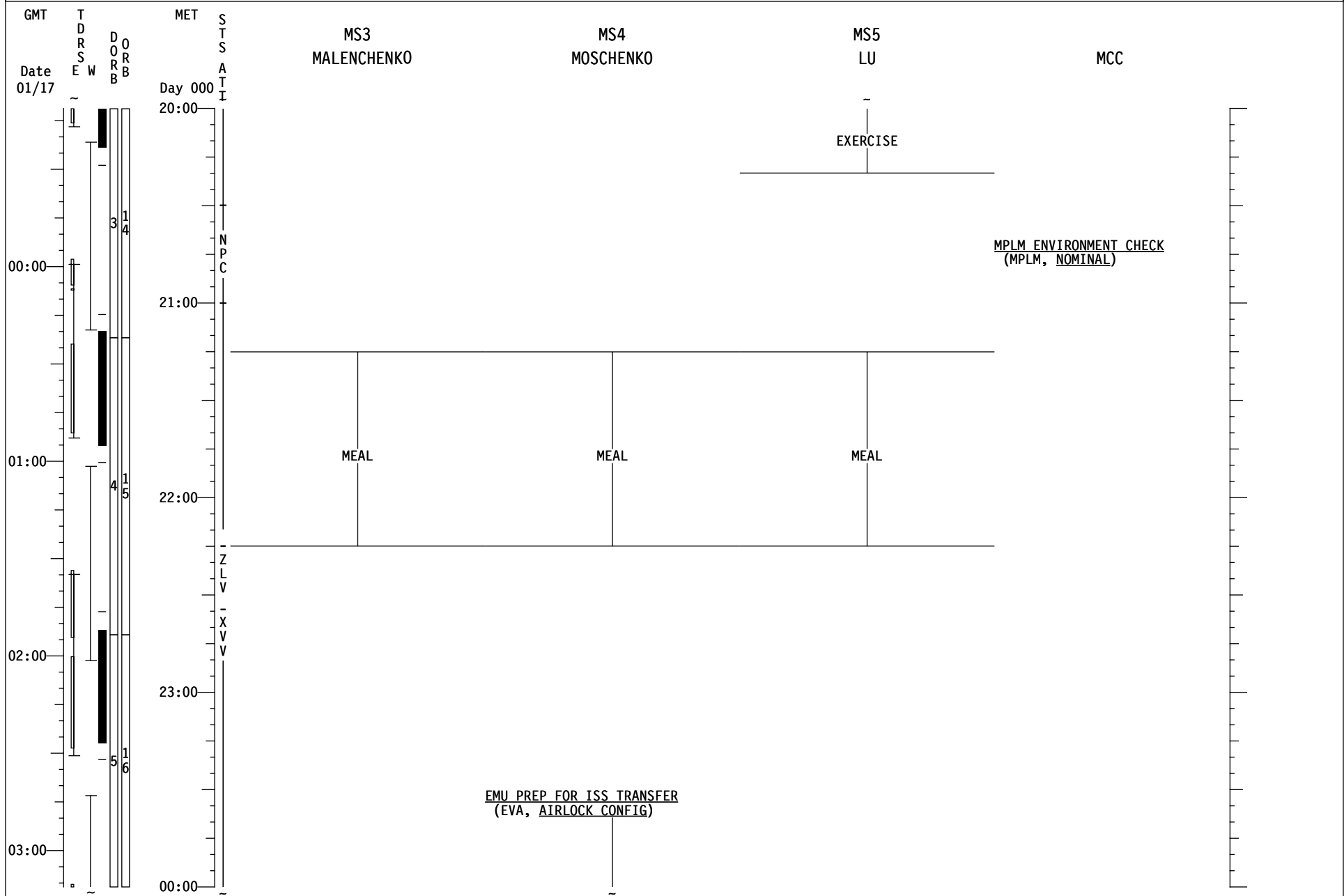


# STS-114 ULF1 (FD 02)





# STS-114 ULF1 (FD 02)



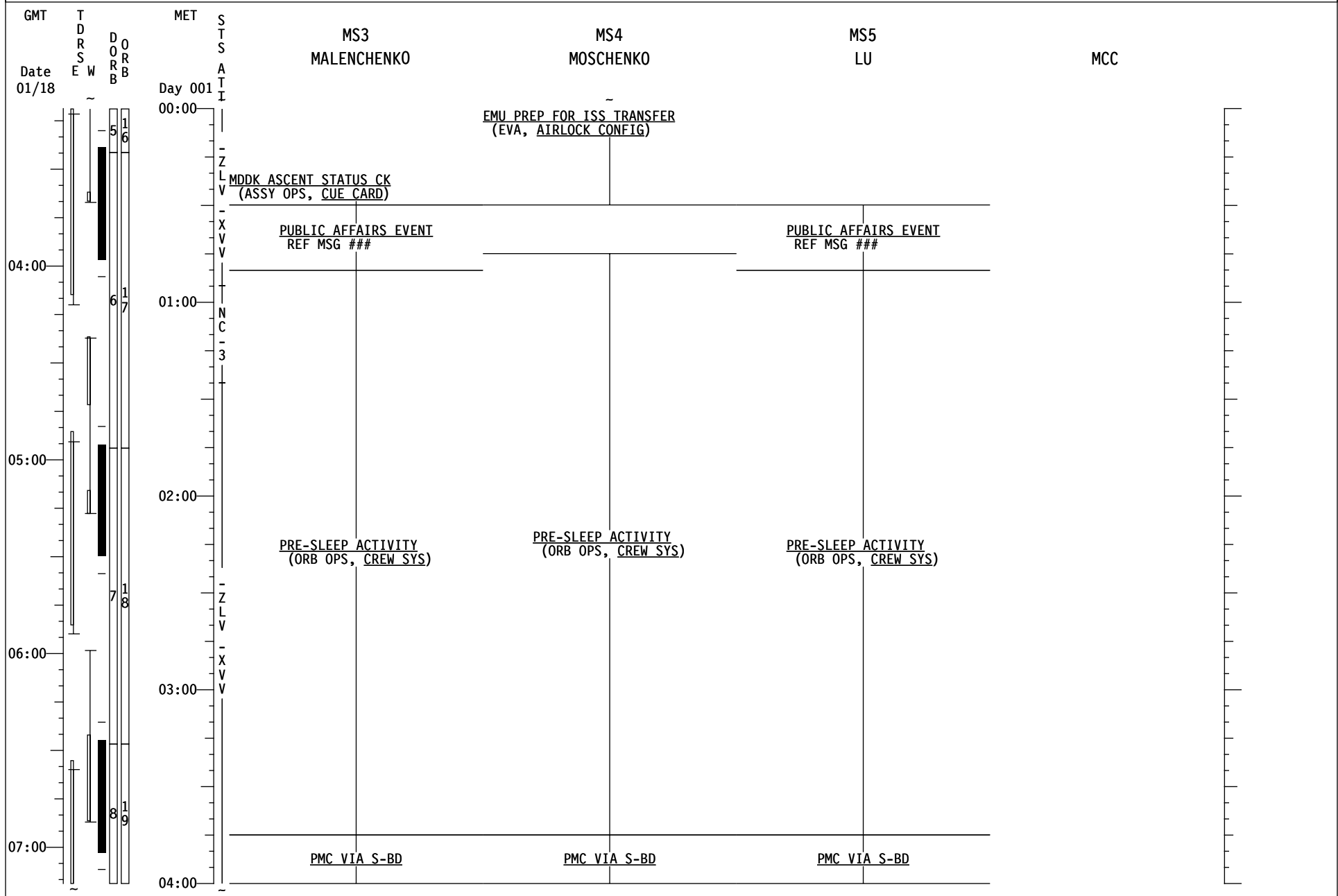
# STS-114 ULF1 (FD 02)

GMT Date 01/18	TDRS E W	DORB 5 6 6 7 7 8 8 9	MET Day 001	STS A T T I	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			00:00		<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	<u>FC PURGE - MANUAL</u> (ORB OPS, EPS) R2 BLR CNTLR/HTR (three) - B A12 HYD HTR RUD SPD BK A-OFF <u>P/TV02 IN-CABIN ACTS (SETUP)</u> (PHOTO/TV, SCENES)	<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	
			04:00		<u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRS XX:XX-XX:XX REF MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###			
			01:00		<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	EXERCISE		TFL 208
					< NC-3 TIG (01:15)				
			05:00		<u>MNVR (TRK) -ZLV -XVV</u> TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK <u>IMU STAR OF OPTY ALIGN (ORB OPS)</u> <u>FUTR LOAD MNVR (TRK) -ZLV +YVV</u> TG=2 BV=3 OM=270 A/AUTO/VERN Init TRK (1/13:20)				TFL 184
			02:00						
			06:00		<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS) √ HUM SEP FOR H2O ACCUMULATION	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	TFL 208
			03:00				<u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS)		
					<u>VIDEO TELECONFERENCING</u> (ORB OPS, PGSC) - PMC				OCA-PMC
			07:00		<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)				
			04:00						

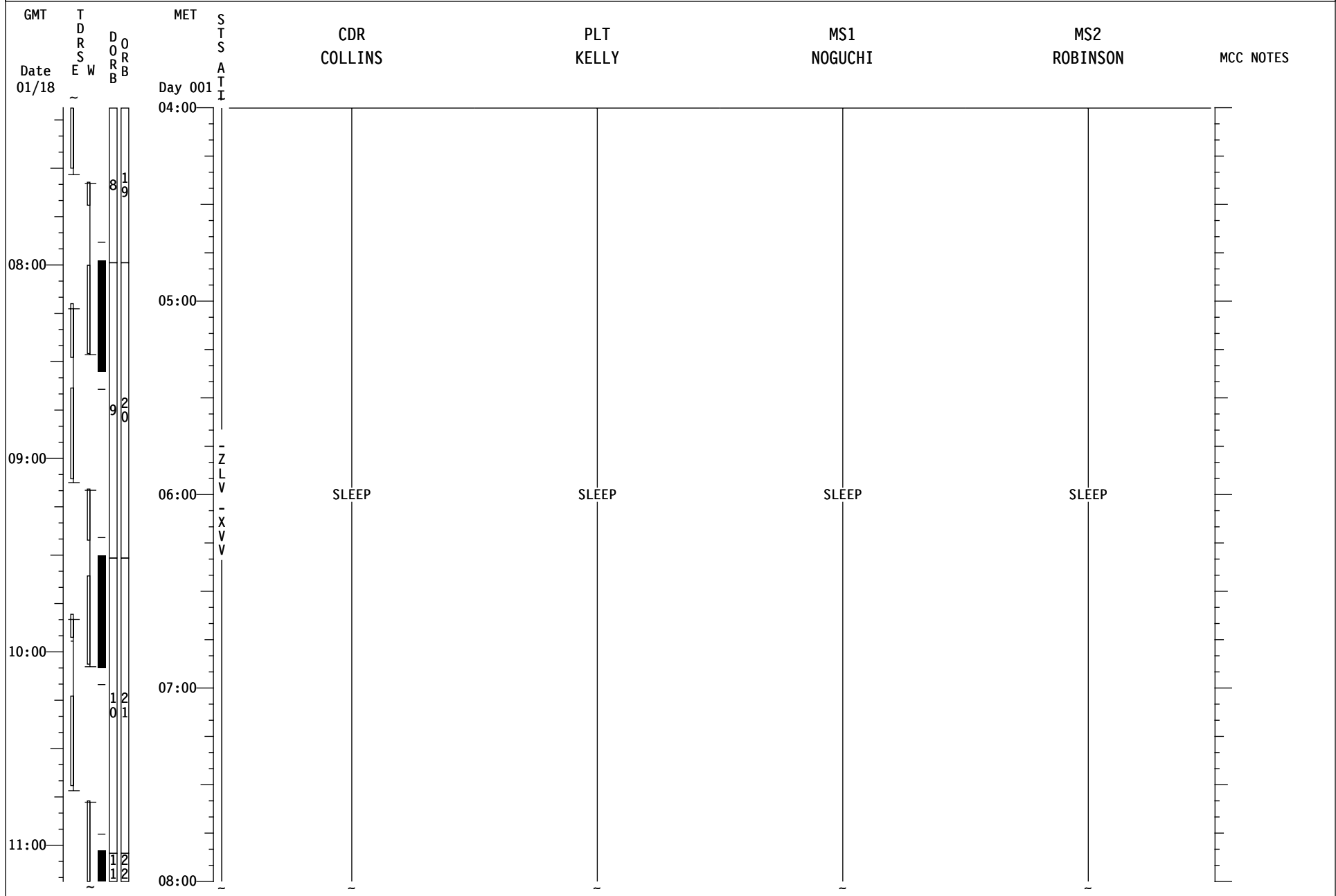
**OVERNIGHT CONFIG**

- COLOR PRINTER - ON
- PAPER IN PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - ON
- KFX LAUNCHED
- CHECK APPLICATIONS CLOSED
- OUTLOOK

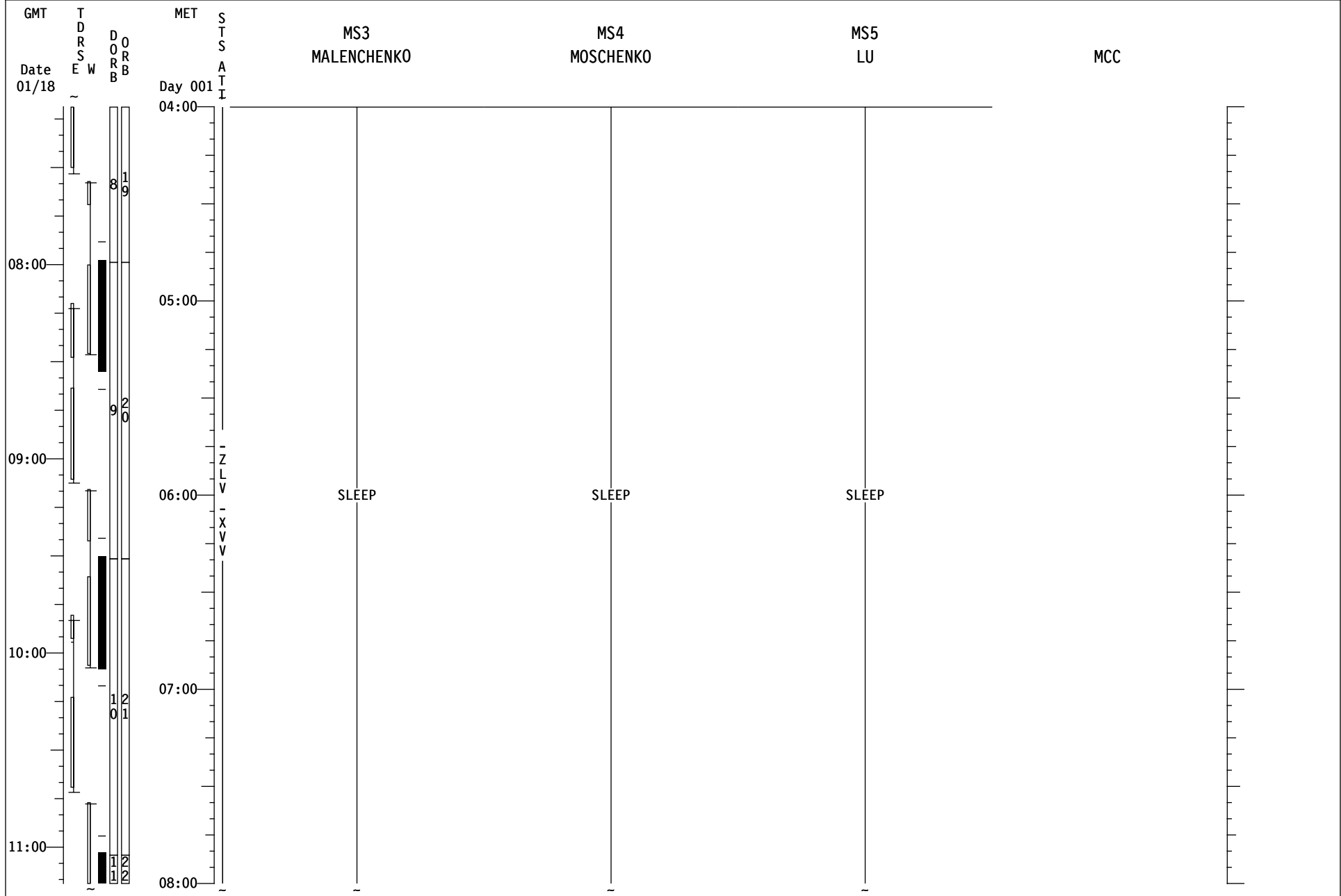
# STS-114 ULF1 (FD 02)



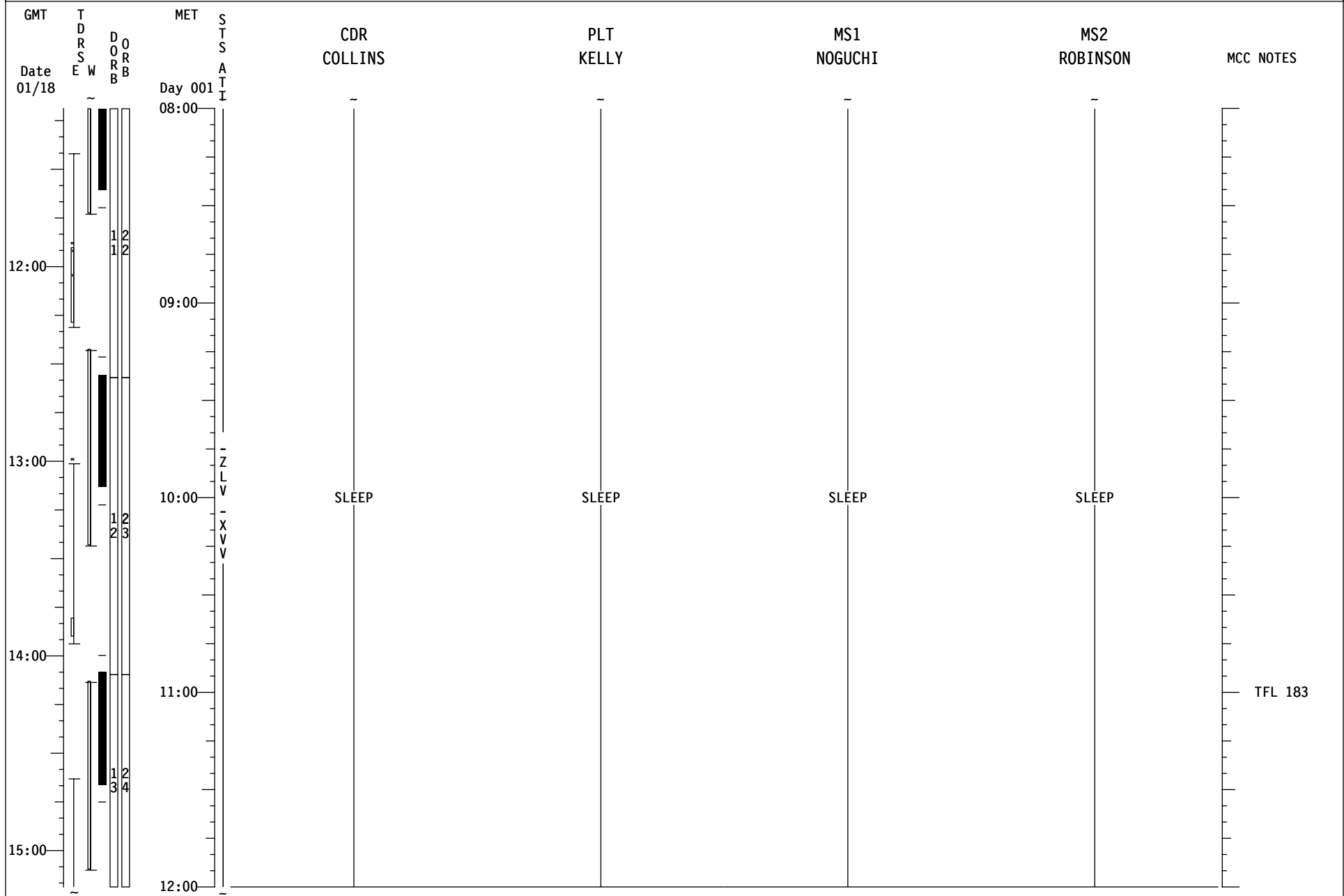
# STS-114 ULF1 (FD 02)



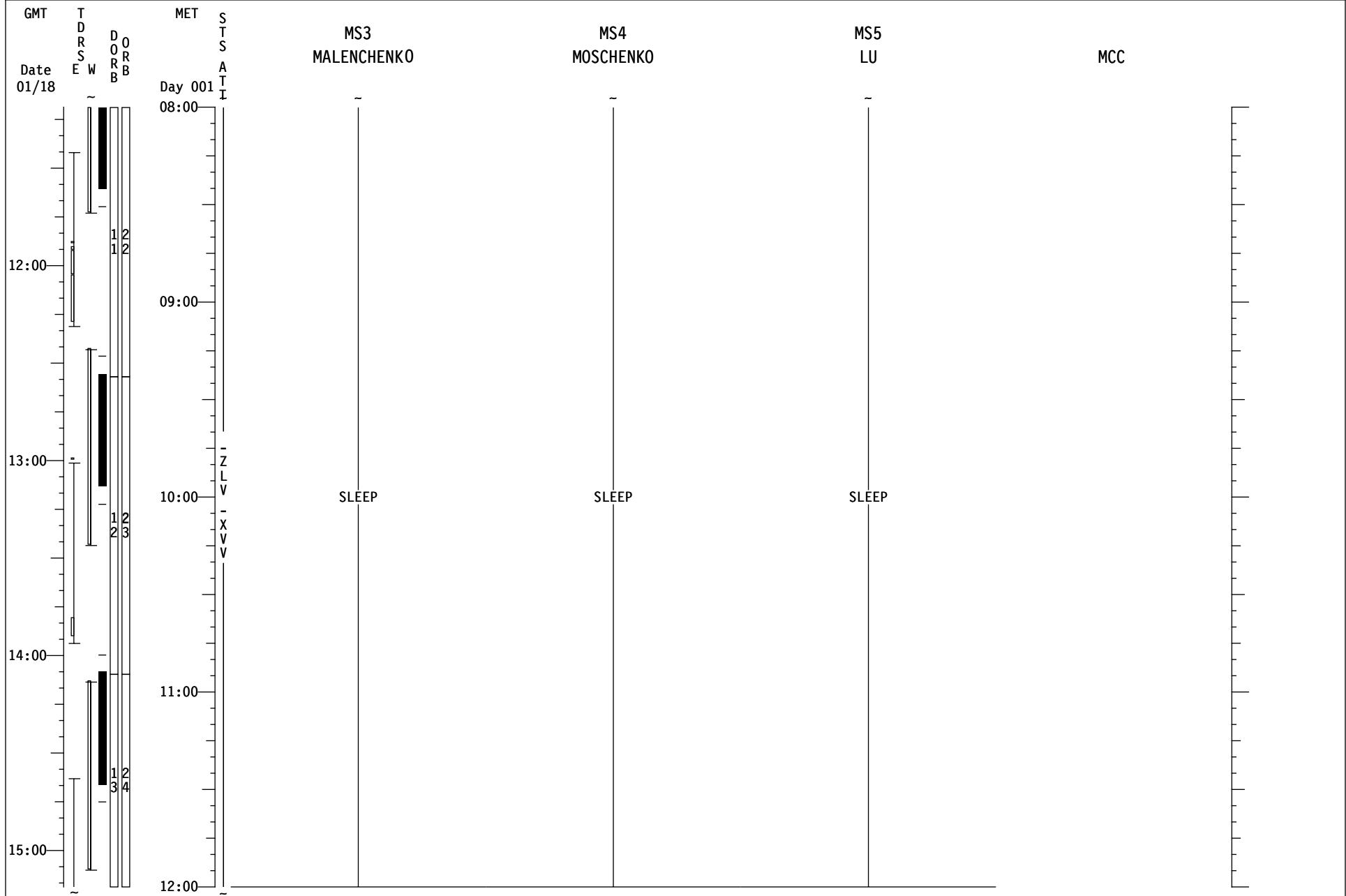
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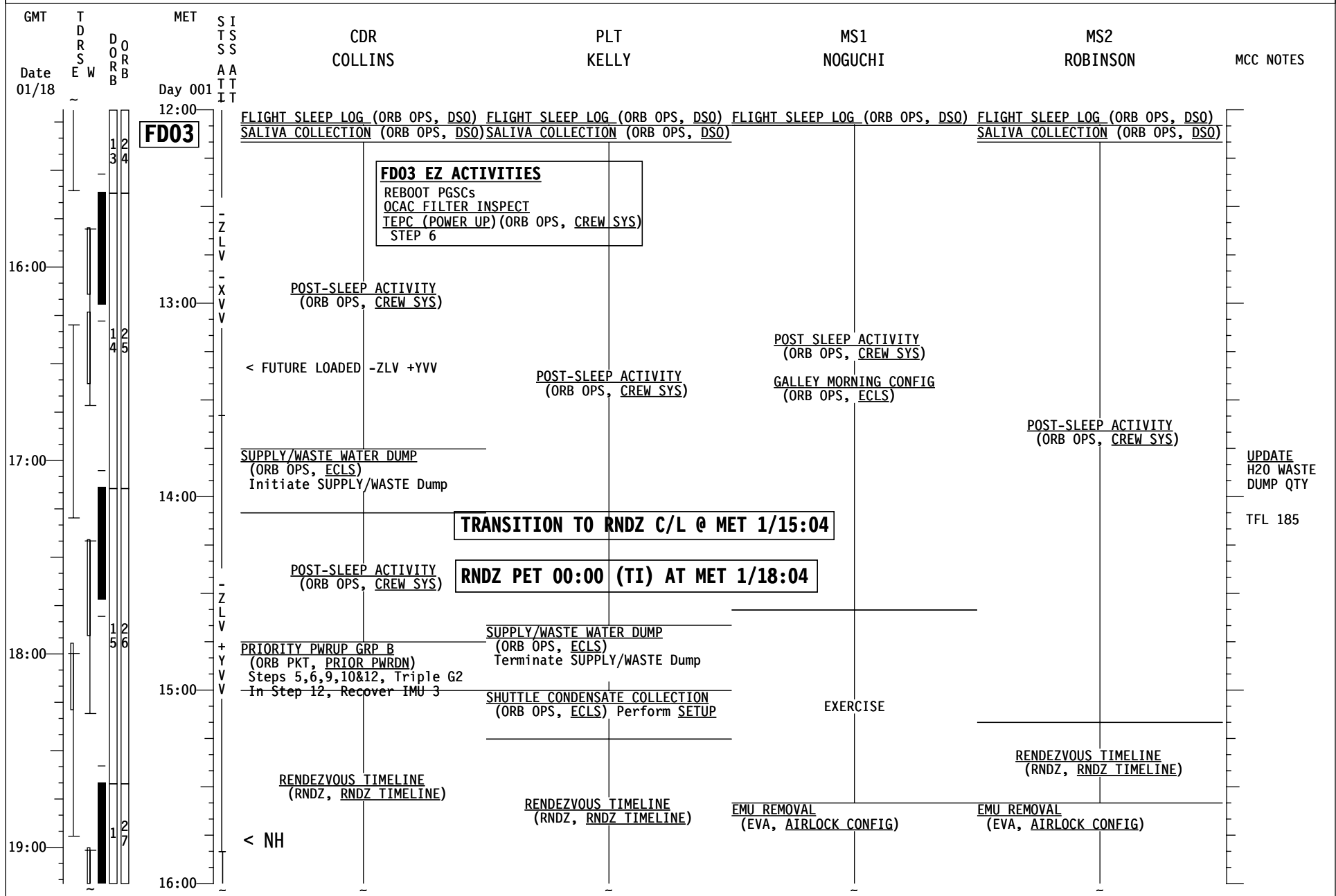
# STS-114 ULF1 (FD 02)



# STS-114 ULF1 (FD 02)

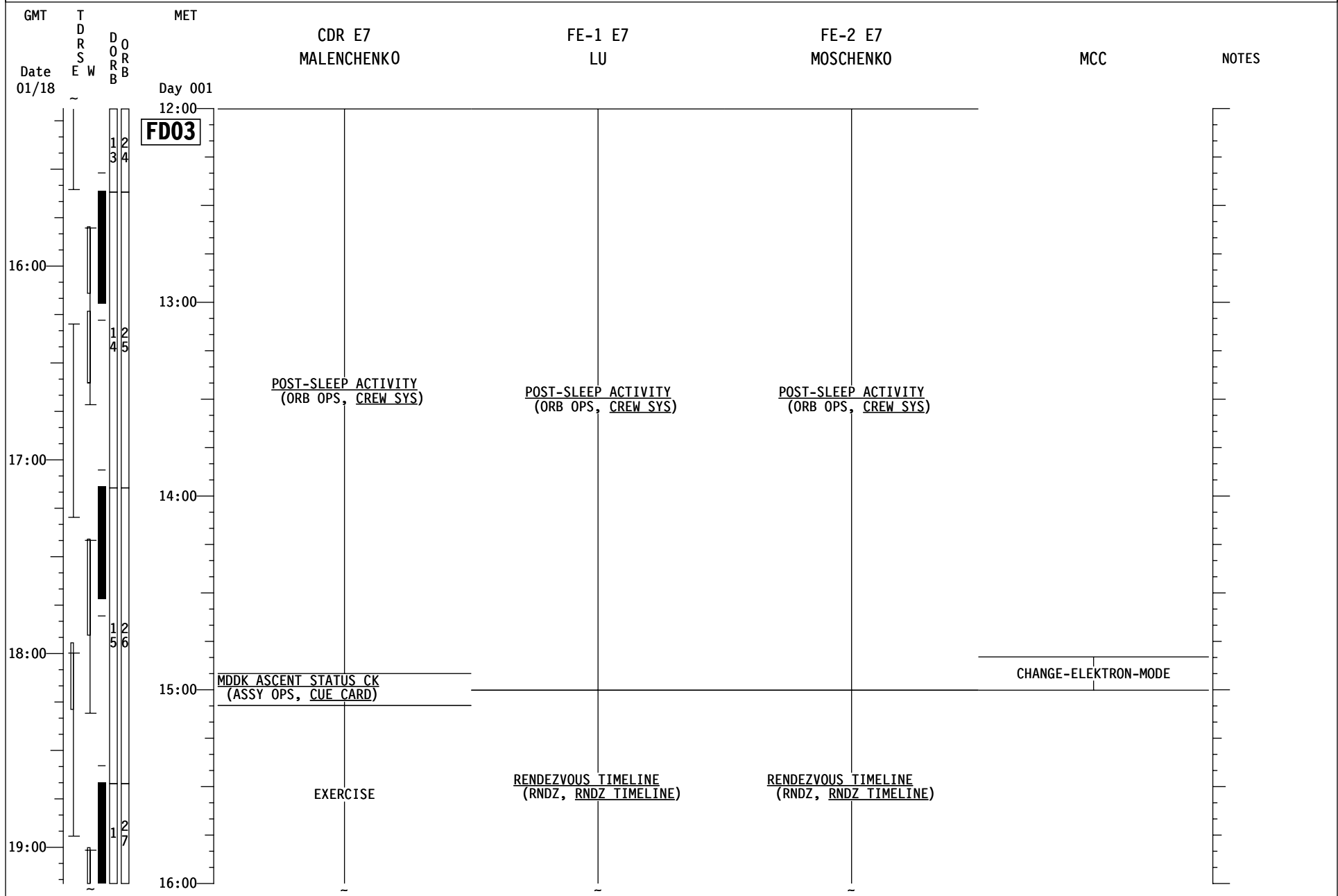


# STS-114 ULF1 (FD 03)

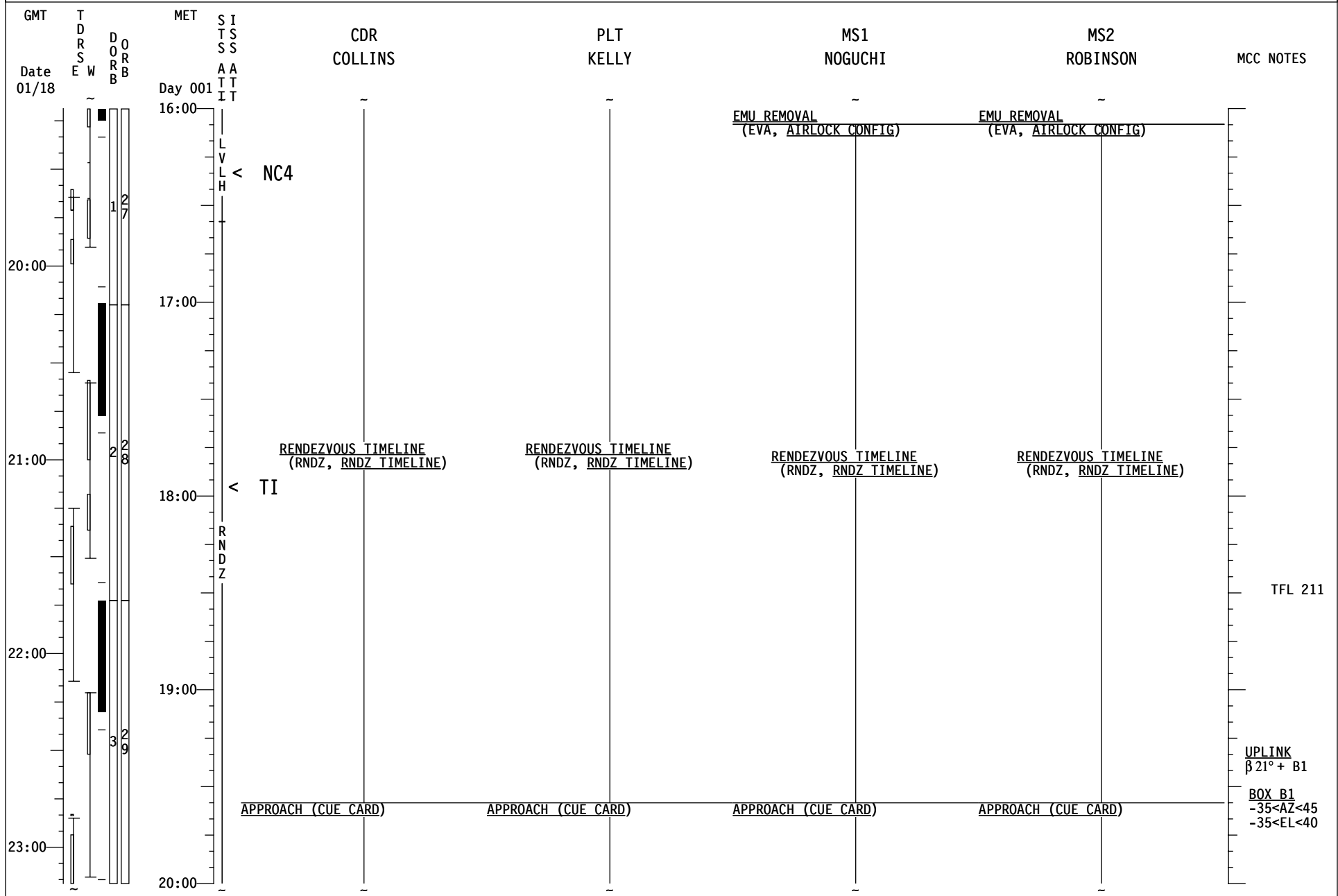




# STS-114 ULF1 (FD 03)



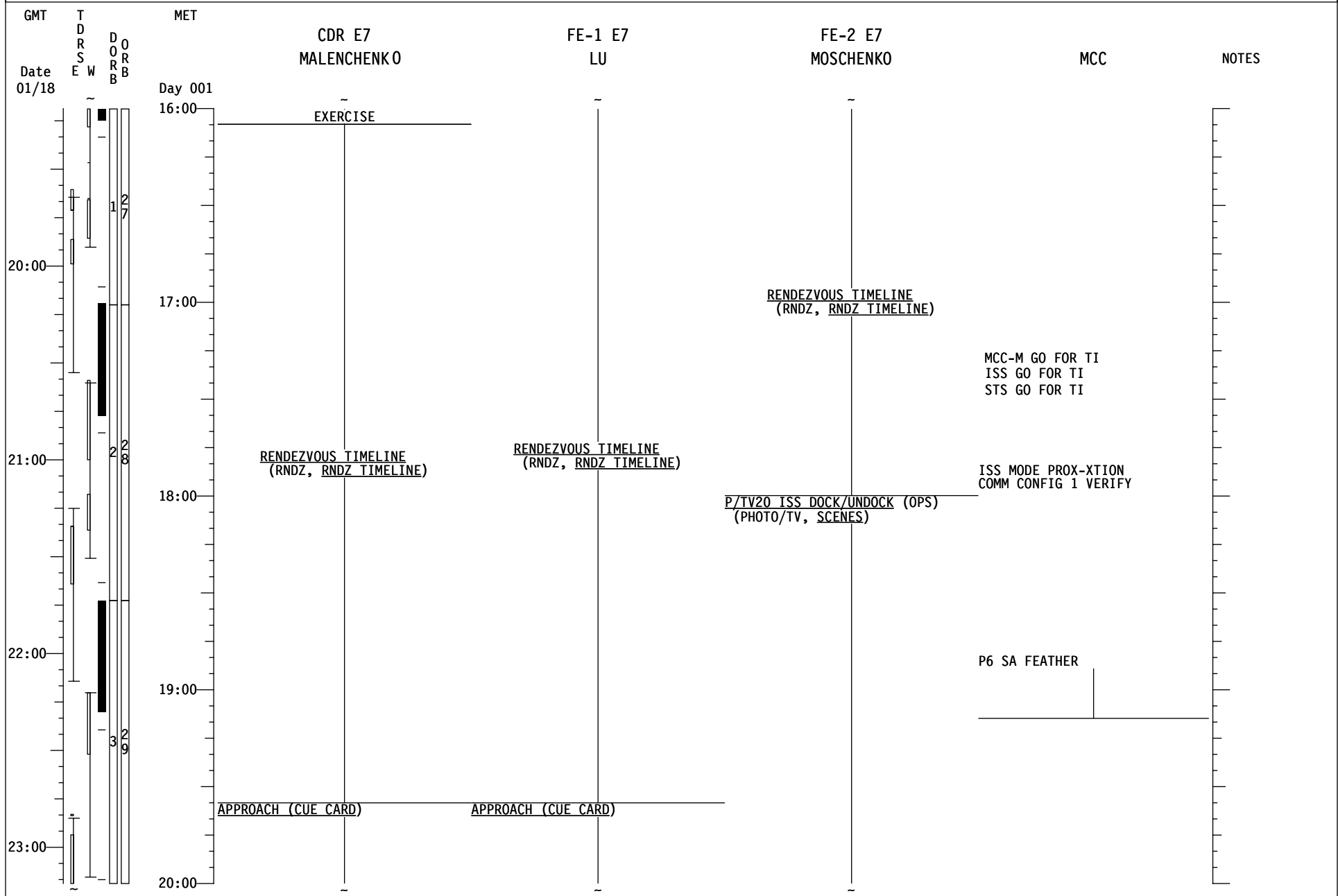
# STS-114 ULF1 (FD 03)



TFL 211

UPLINK  
 β 21° + B1  
 BOX B1  
 -35<AZ<45  
 -35<EL<40

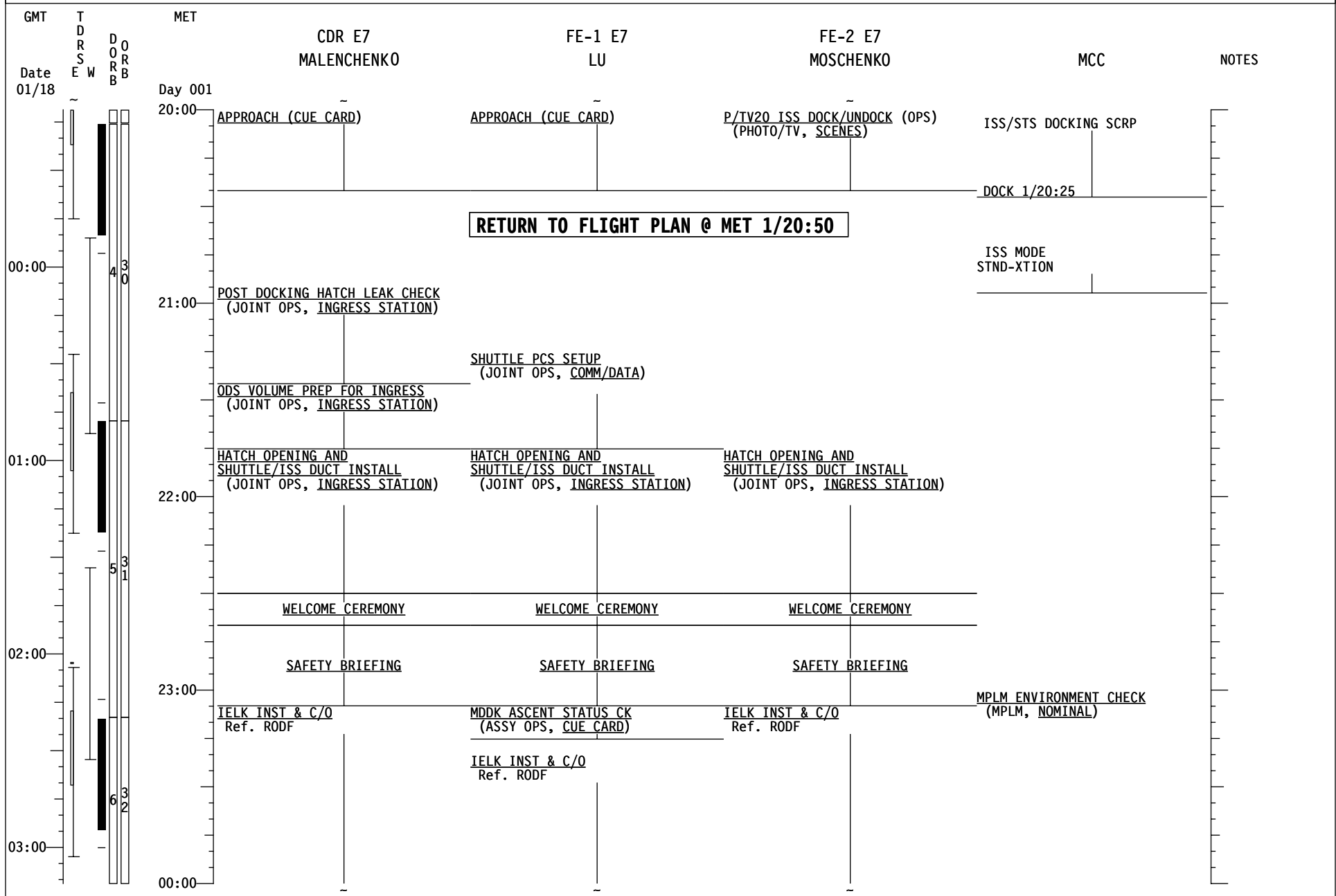
# STS-114 ULF1 (FD 03)



# STS-114 ULF1 (FD 03)

GMT Date 01/18	TDRSEW	DORB	MET Day 001	SI TSS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			20:00		APPROACH (CUE CARD)	APPROACH (CUE CARD)	APPROACH (CUE CARD)	APPROACH (CUE CARD)	UPLINK B21°+C1,C2,C3 BOX C1 -14<AZ<52 -62<EL<75 BOX C2 -17<AZ<-9 -8<EL<38 BOX C3 -25<AZ<-9 -15<EL<-3
					< CAPTURE 1/20:25				
					<b>RETURN TO FLIGHT PLAN @ MET 1/20:50</b>				
			21:00		MNVR (TRK) BIAS -XLV +ZVV TG=2 BV=5 P=156 Y=356 OM=1 Init TRK, When rates damped: A12/AUTO/VERN	POST DOCKING HATCH LEAK CHECK (JOINT OPS, INGRESS STATION)		HARDLINE AUDIO CONFIG (ISS) (JOINT OPS, COMM/DATA) STEPS 1,2,6,7	TFL 184
					IMU STAR OF OPTY ALIGN (ORB OPS) H/O ATT CNTRL ORB to CMG TA (JOINT OPS, MATED OPS)	P/TV21 ISS INTRNL OPS (S/U) (PHOTO/TV, SCENES)	SHUTTLE PCS SETUP (JOINT OPS, COMM/DATA)	ODS VOLUME PREP FOR INGRESS (JOINT OPS, INGRESS STATION)	
			01:00		PRIORITY PWRDN GRP B (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10&12, Single G2 In Step 12 IMU 3 STBY-ITEM 23 EXEC	P/TV21 ISS INTRNL OPS (S/U) (PHOTO/TV, SCENES)	HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL (JOINT OPS, INGRESS STATION)	HATCH OPENING AND SHUTTLE/ISS DUCT INSTALL (JOINT OPS, INGRESS STATION)	
			22:00						
					WELCOME CEREMONY	WELCOME CEREMONY	WELCOME CEREMONY	WELCOME CEREMONY	
			02:00		SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
			23:00		APCU 1 ACT (ASSY OPS, APCU) ACTIVATION (CUE CARD, PLAYBACK)	POST RNDZ PGSC CONFIG (REF DATA, UTIL PWR) Use PGSC Usage chart and Plug-In-Plan	SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #1 Report barcode & S/N to MCC MCC: CWC Samples & Additives TRANSFER Ref. MDDK TRANSFER LIST	POST RNDZ PGSC CONFIG (REF DATA, UTIL PWR) Use PGSC Usage chart and Plug-In-Plan	
					PLAYBACK (CUE CARD, PLAYBACK) ISS DOCKING KU TDRX (XX:XX - XX:XX)			TRANSFER Ref. MDDK TRANSFER LIST	
			03:00		On MCC GO: APCU 1 DEACT (ASSY OPS) P/TV08 CBCS C/O (OPS) (PHOTO TV, SCENES)	EXERCISE			
			00:00						

# STS-114 ULF1 (FD 03)



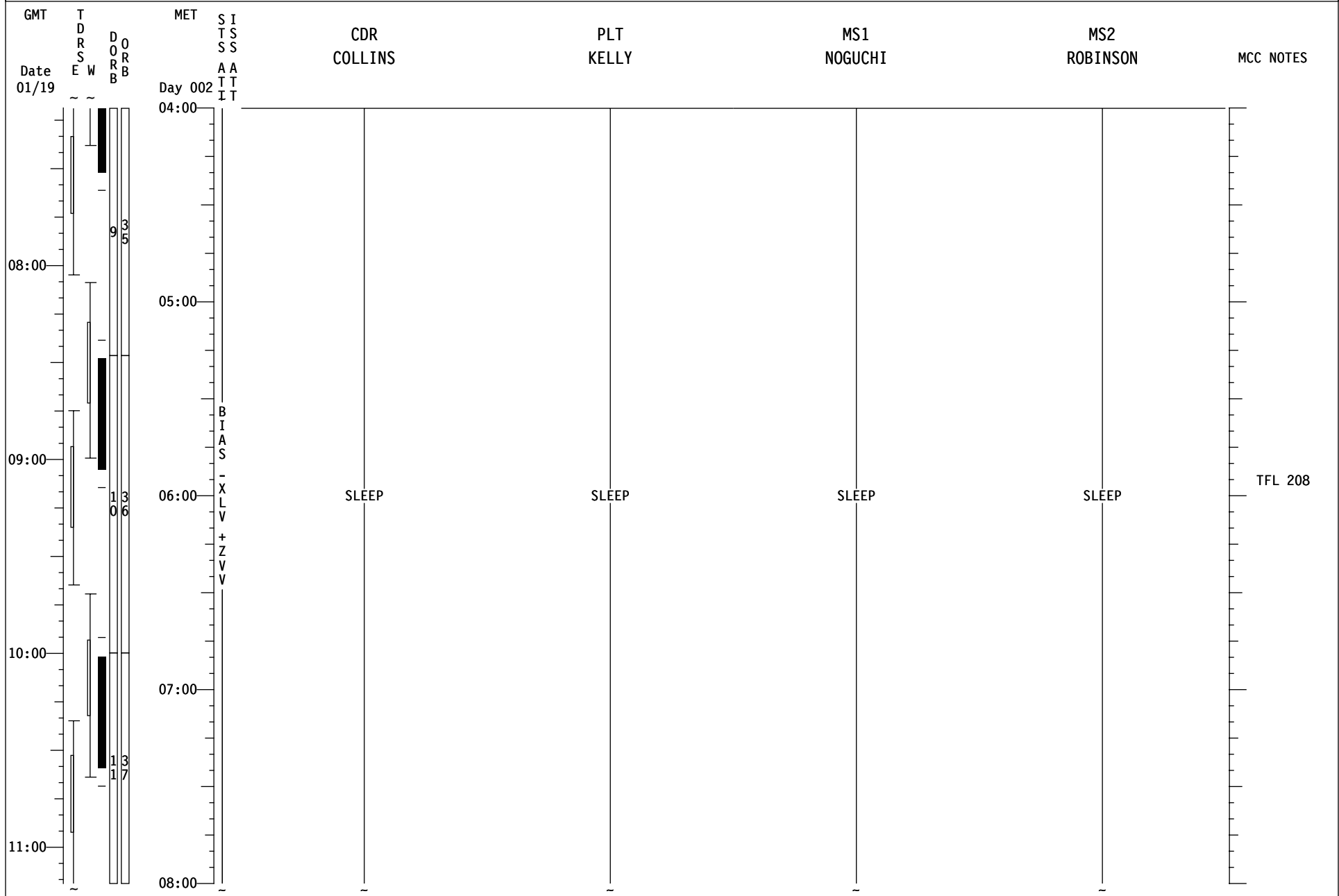
# STS-114 ULF1 (FD 03)

GMT Date 01/19	TDRSEW	DORB	MET Day 002	SISS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			00:00		P/TV08 CBCS C/O (OPS) (PHOTO TV, SCENES)		TRANSFER Ref. MDDK TRANSFER LIST	TRANSFER Ref. MDDK TRANSFER LIST	TFL 185
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EXERCISE			TFL 184
04:00			01:00		EXERCISE		SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Photo bag w/35mm cam	EXERCISE	
						PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	CWC TRANSFER Xfer 1 CWC bag to ISS		
05:00			02:00						TFL 183
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DAILY STS/ISS CREW TRANSFER TAGUP	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
06:00			03:00			DAILY TRANSFER BRIEFING	GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)		
							<b>OVERNIGHT CONFIG</b> <input type="checkbox"/> COLOR PRINTER - ON <input type="checkbox"/> PAPER IN PRINTER <input type="checkbox"/> FLOPPY DISK IN PROSHARE <input type="checkbox"/> OCA ROUTER - ON <input type="checkbox"/> PROSHARE - ON <input type="checkbox"/> KFX LAUNCHED <input type="checkbox"/> DISCONNECT CABLES: BPSMU (2) <input type="checkbox"/> CHECK APPLICATIONS CLOSED <input type="checkbox"/> OUTLOOK		OCA-PMC
07:00			04:00		VIDEO TELECONFERENCING (ORB OPS, PGSC) - PMC	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				

# STS-114 ULF1 (FD 03)

GMT	T D R S E W	D O R B	MET	CDR E7 MALENCHENKO	FE-1 E7 LU	FE-2 E7 MOSCHENKO	MCC	NOTES
Date 01/19			Day 002					
04:00		6 <sup>3</sup> <sub>2</sub>	00:00	<u>IELK INST &amp; C/O</u> Ref. RODF	<u>IELK INST &amp; C/O</u> Ref. RODF	<u>IELK INST &amp; C/O</u> Ref. RODF		
			01:00	<u>SOKOL LEAK CHECK</u> Ref. RODF		<u>SOKOL LEAK CHECK</u> Ref. RODF		
		7 <sup>3</sup> <sub>3</sub>			<u>SOKOL LEAK CHECK</u> Ref. RODF			
				<u>PREP WORK</u>		<u>PREP WORK</u>		
05:00			02:00	<u>PLAN REVIEW</u>	<u>PLAN REVIEW</u>	<u>PLAN REVIEW</u>		
				<u>DAILY PLAN CONF</u>	<u>DAILY PLAN CONF</u>	<u>DAILY PLAN CONF</u>		
				<u>PRIVATE MEDICAL CONFERENCE</u>	<u>PRIVATE MEDICAL CONFERENCE</u>	<u>PRIVATE MEDICAL CONFERENCE</u>		
06:00		8 <sup>3</sup> <sub>4</sub>	03:00					
				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)		
07:00		9 <sup>3</sup> <sub>5</sub>	04:00					

# STS-114 ULF1 (FD 03)

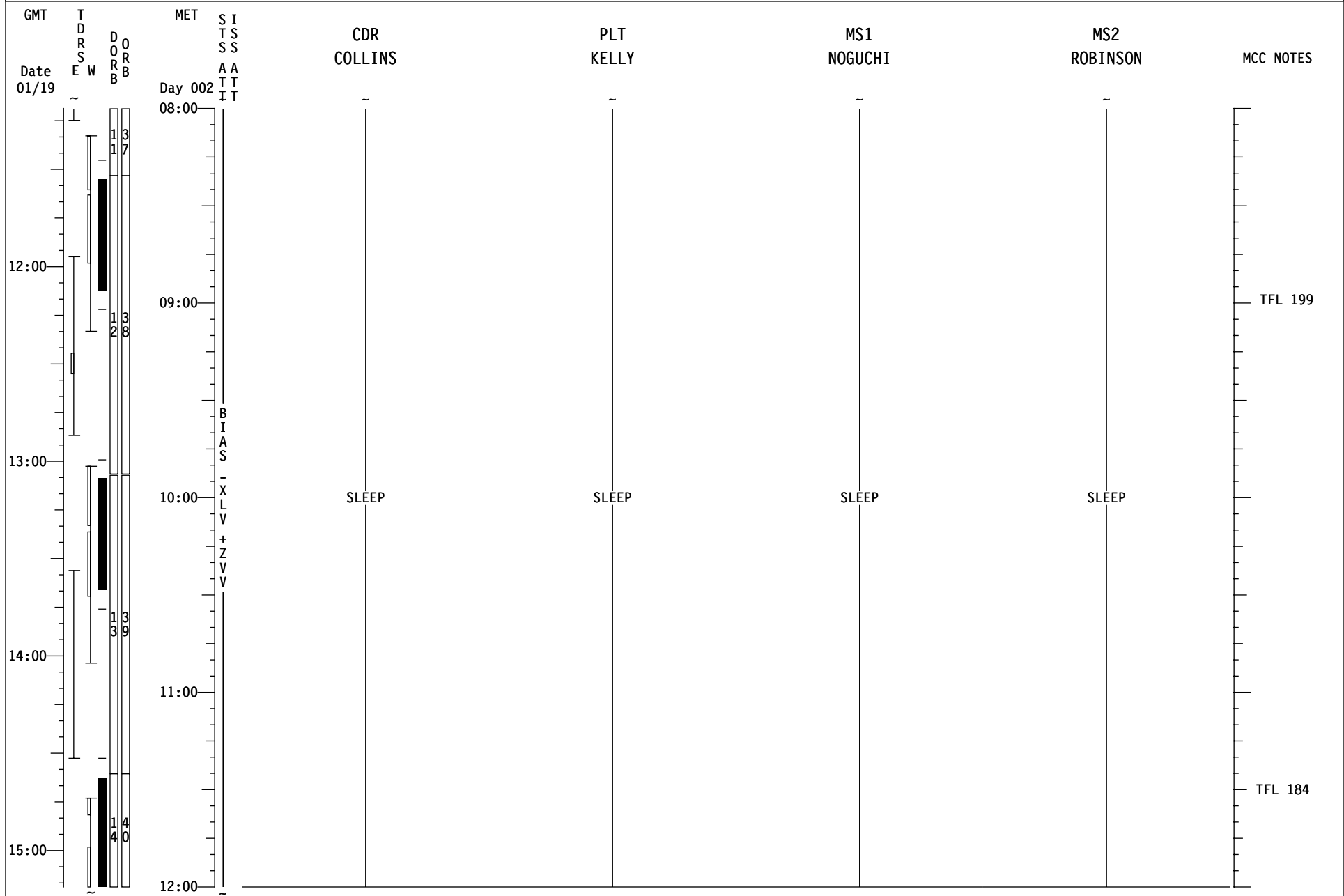




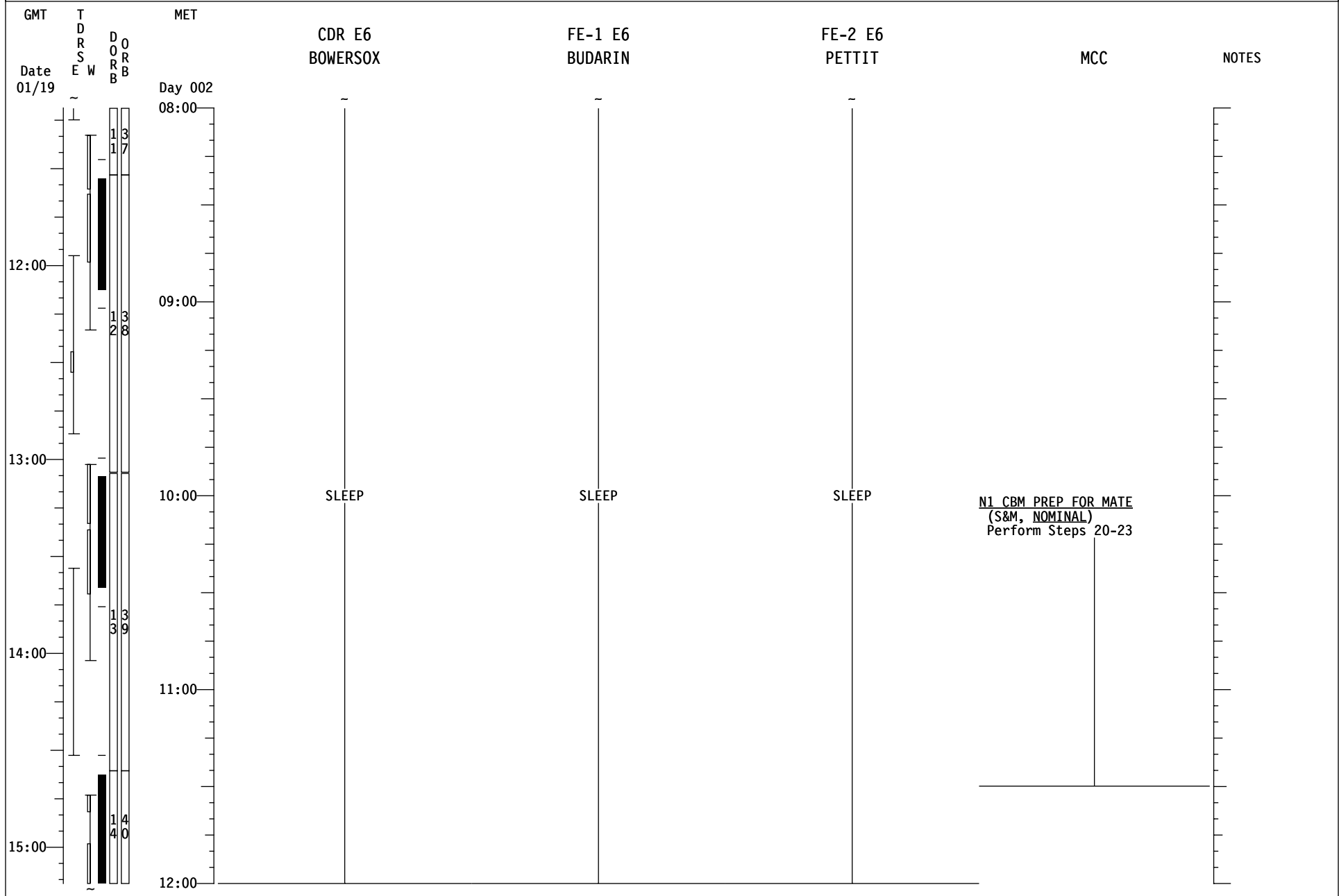
# STS-114 ULF1 (FD 03)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/19			Day 002					
08:00	935		04:00					
09:00	1306		05:00	SLEEP	SLEEP	SLEEP		
10:00	1317		06:00					
11:00			07:00					
			08:00					

# STS-114 ULF1 (FD 03)



# STS-114 ULF1 (FD 03)



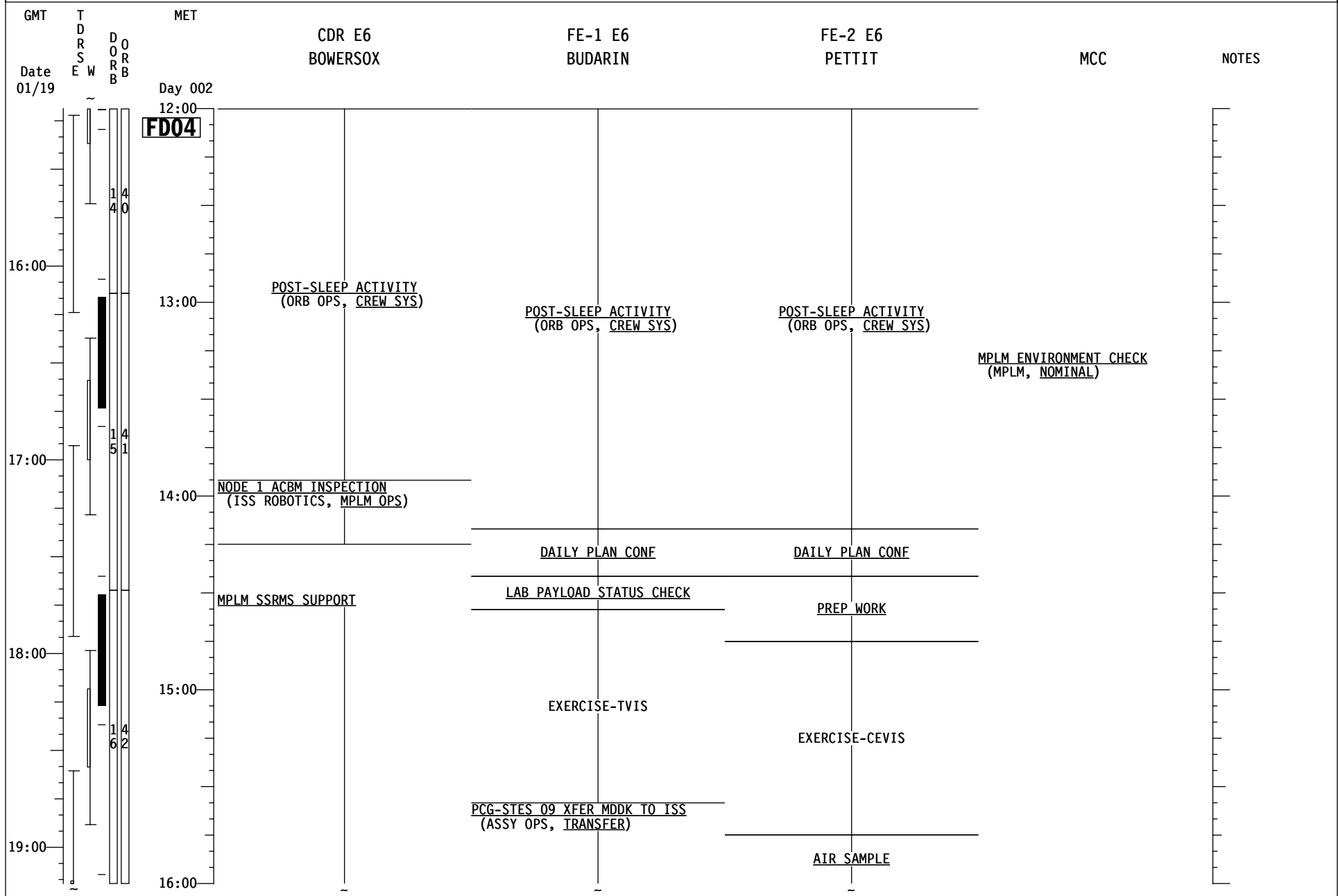
# STS-114 ULF1 (FD 04)

GMT Date 01/19	TDRSEW	DORB	MET Day 002	SITS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			12:00	<b>FD04</b>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	
16:00		140			<u>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>				
			13:00		<u>APCU 1 ACT (ASSY OPS, APCU)</u>	<u>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>		<u>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>	
					<u>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>		<u>POST SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>		
17:00		1451		BIAS	<u>On MCC GO:APCU 1 DEACT (ASSY OPS)</u> <u>P/TV22 MPLM ASSEMBLY OPS (S/U) (PHOTO/TV, SCENES)</u>		<u>GALLEY MORNING CONFIG (ORB OPS, ECLS)</u>		
			14:00	XLV		<u>BERTHED MPLM GRAPPLE (ISS ROBOTICS, MPLM OPS)</u> <u>MPLM UNBERTH (ISS ROBOTICS, MPLM OPS)</u>		<u>BERTHED MPLM GRAPPLE (ISS ROBOTICS, MPLM OPS)</u> <u>MPLM UNBERTH (ISS ROBOTICS, MPLM OPS)</u>	<u>UPLINK</u> β 21° +C1, C2, C3+D1 <u>BOX C1</u> -14<AZ<52 -62<EL<75 <u>BOX C2</u> -17<AZ<-9 -8<EL<38 <u>BOX C3</u> -25<AZ<-9 -15<EL<-3 <u>BOX D1</u> -28<AZ<5 -87<EL<-19
				ZZVV	<u>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</u>				
18:00			15:00				<u>MDDK ASCENT STATUS CK (ASSY OPS, CUE CARD)</u>		<u>TFL 184</u>
					<u>SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #2</u> Report barcode & S/N to MCC √MCC:CWC Samples & Additives		<u>PCG-STES 09 XFER MDDK TO ISS (ASSY OPS, TRANSFER)</u>		
					<u>MPLM PCBM INSPECTION (ISS ROBOTICS, MPLM OPS)</u>				<u>OCA - OST DOWN</u>
19:00		1462				<u>N1 CBM VRFY PREMATE STATUS (S&amp;M, NOM)</u>		<u>MPLM INSTALL (ISS ROBOTICS, MPLM OPS)</u>	
			16:00		<u>P/TV22 MPLM ASSEMBLY OPS (OPS) (PHOTO/TV, SCENES)</u>	<u>MPLM INSTALL (ISS ROBOTICS, MPLM OPS)</u>		<u>MPLM INSTALL (ISS ROBOTICS, MPLM OPS)</u>	

**FD04 EZ ACTIVITIES**

- REBOOT PGSCs
- OCAC FILTER INSPECT
- TEPC (POWER UP)
- (ORB OPS, CREW SYS)
- STEP 6

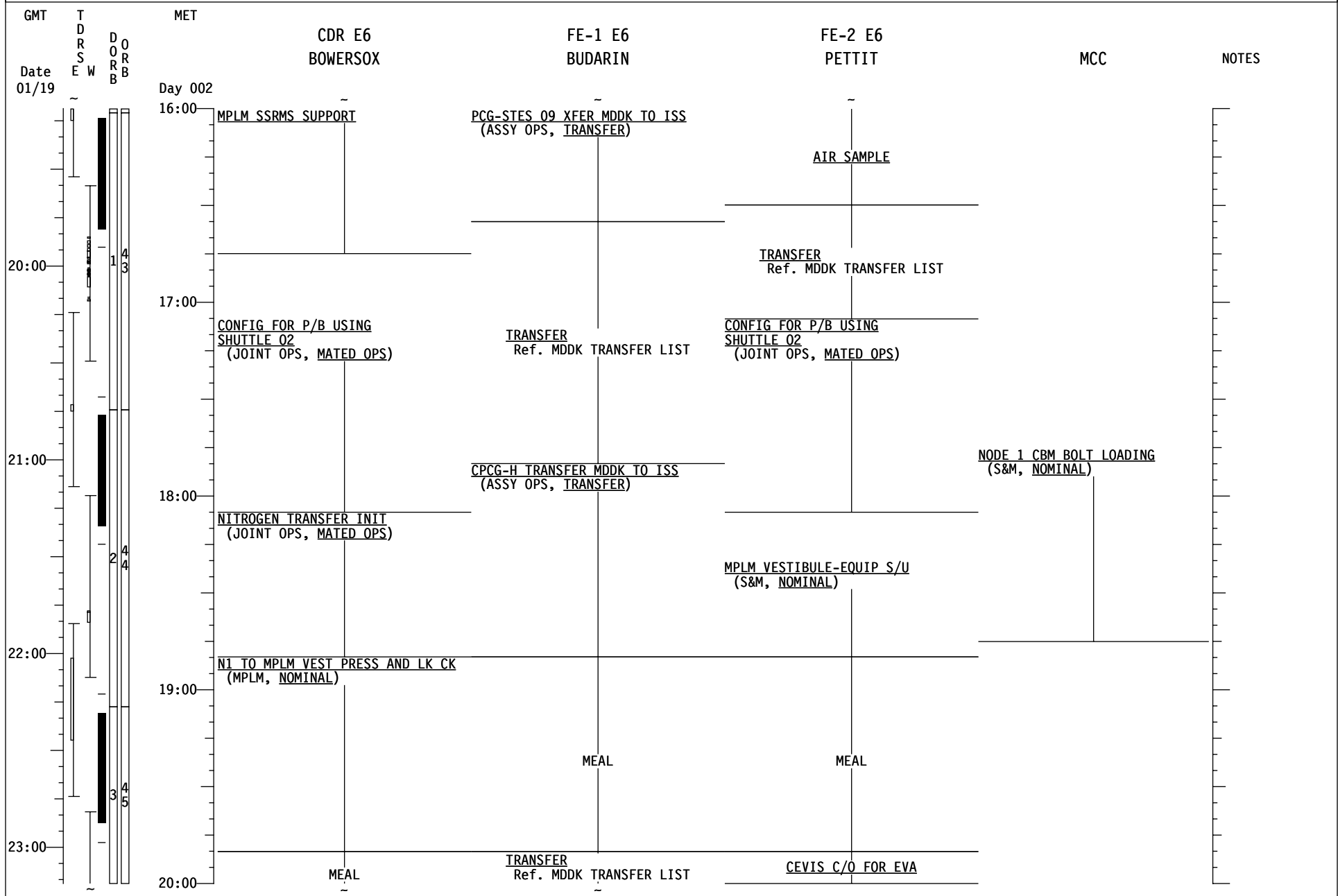
# STS-114 ULF1 (FD 04)



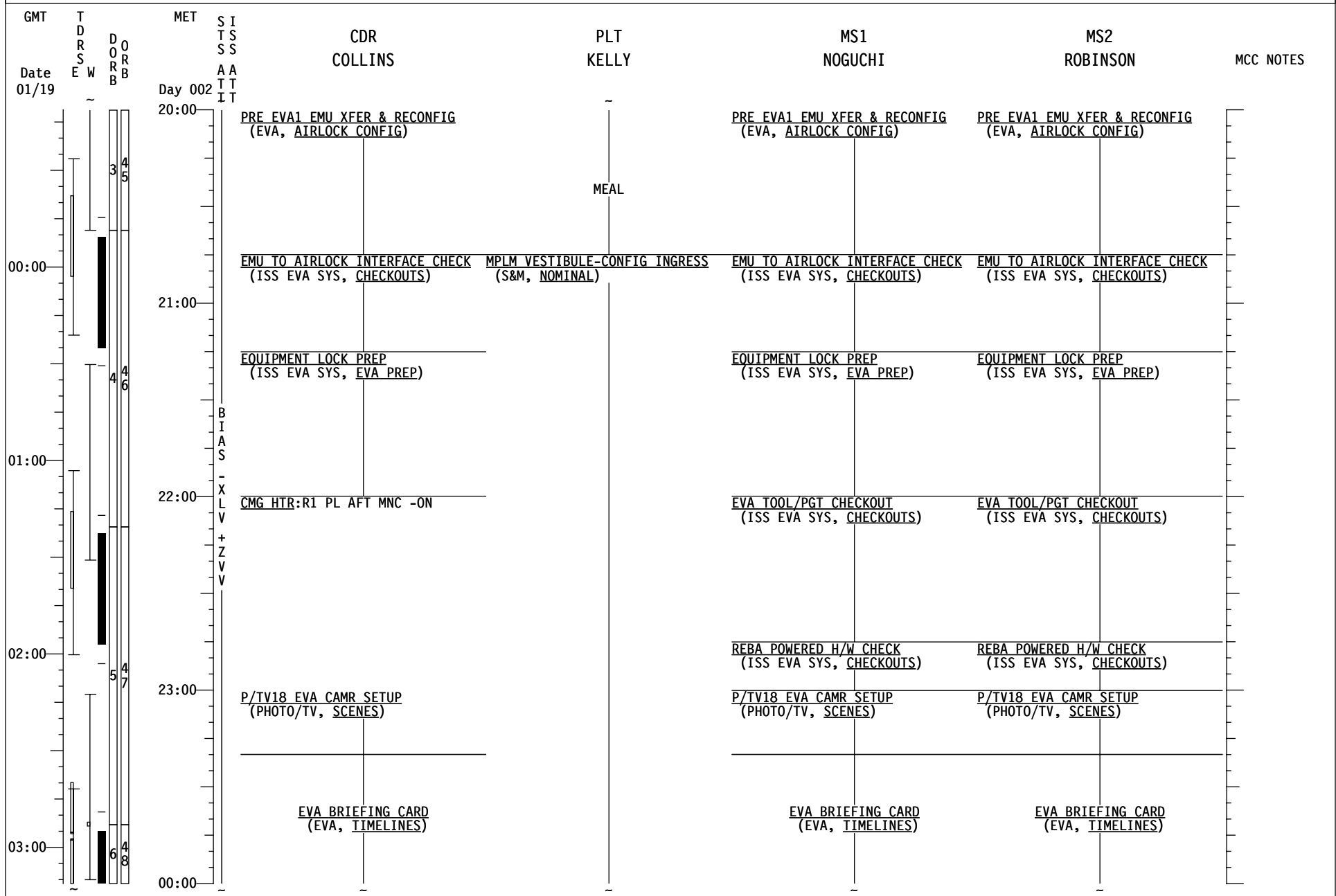
# STS-114 ULF1 (FD 04)

GMT	T D R S E W	D O R B	MET	S I T S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
01/19			Day 002						
16:00					P/TV22 MPLM ASSEMBLY OPS (OPS) (PHOTO/TV, SCENES)	MPLM INSTALL (ISS ROBOTICS, MPLM OPS) STEPS 1-5	PCG-STES 09 XFER MDDK TO ISS (ASSY OPS, TRANSFER)	MPLM INSTALL (ISS ROBOTICS, MPLM OPS) STEPS 1-5	
					SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Photo bag w/35mm cam				TFL 199
20:00					SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #3 Report barcode & S/N to MCC √MCC:CWC Samples & Additives		N1 CBM CAP/ABLT SSRMS (1ST STG) (S&M, NOMINAL) Steps 1-2		
						MPLM INSTALL (ISS ROBOTICS, MPLM OPS) Step 6	N1 CBM CAP/ABLT SSRMS (2ND STG) (S&M, NOMINAL) Step 3	MPLM INSTALL (ISS ROBOTICS, MPLM OPS) Step 6	
						MPLM INSTALL (BRAKES ON) (ISS ROBOTICS, MPLM OPS) Step 7-8		MPLM INSTALL (BRAKES ON) (ISS ROBOTICS, MPLM OPS) Step 7-8	
						N1 CBM/CAP/ABLT SSRMS (ACQ BLTS) (S&M, NOMINAL)	N1 CBM/CAP/ABLT SSRMS (ACQ BLTS) (S&M, NOMINAL)	N1 CBM/CAP/ABLT SSRMS (ACQ BLTS) (S&M, NOMINAL)	
21:00					MATED MPLM UNGRAPPLE (ISS ROBOTICS, MPLM OPS)		CPCG-H TRANSFER MDDK TO ISS (ASSY OPS, TRANSFER)	MATED MPLM UNGRAPPLE (ISS ROBOTICS, MPLM OPS)	
					PRE-EVAL OVERNIGHT PARK (ISS ROBOTICS, EVA)				
					SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Photo bag w/35mm cam			NITROGEN TRANSFER INIT (JOINT OPS, MATED OPS)	UPLINK β 21° +C1, C2, C3+D2 BOX C1 -14<AZ<52 -62<EL<75 BOX C2 -17<AZ<-9 -8<EL<38 BOX C3 -25<AZ<-9 -15<EL<-3 BOX D2 -28<AZ<-9 -41<EL<-19
					CWC TRANSFER Xfer 2 CWC bags to ISS				
22:00						N1 TO MPLM VEST PRESS AND LK CK (MPLM, NOMINAL)			
					MEAL		MEAL	MEAL	
23:00									TFL 208
					CEVIS C/O FOR EVA	MEAL	CEVIS C/O FOR EVA	CEVIS C/O FOR EVA	
20:00									

# STS-114 ULF1 (FD 04)

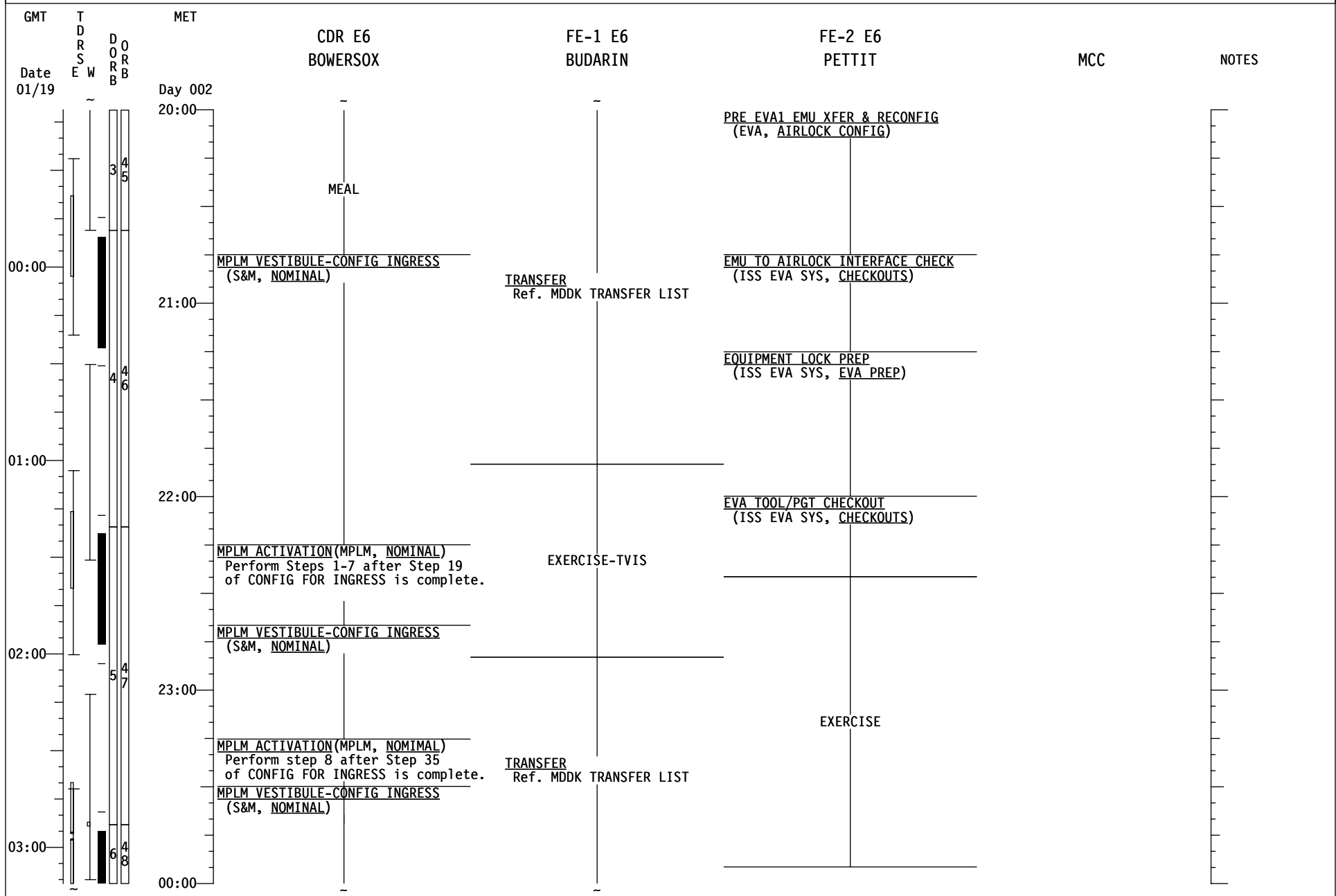


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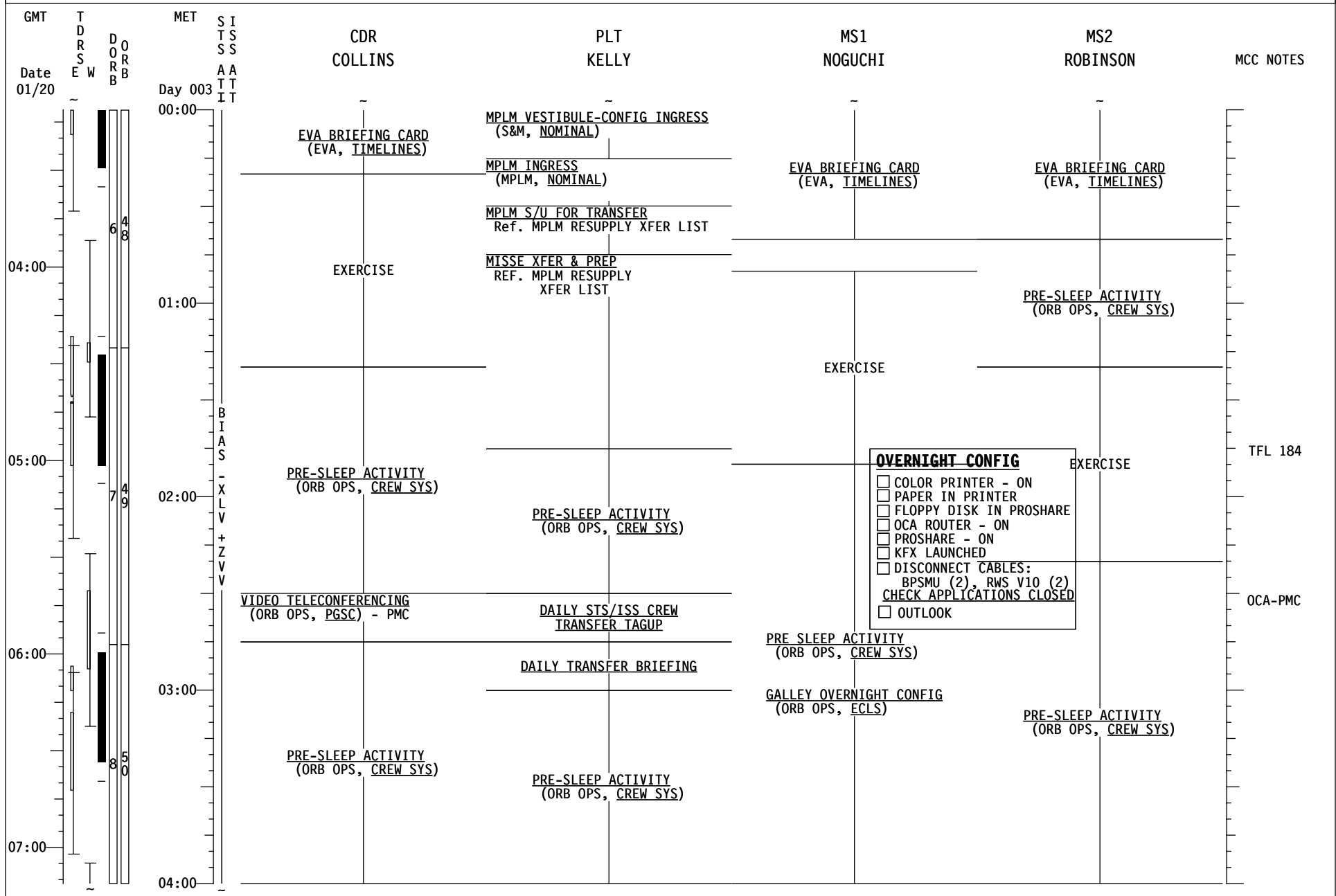




# STS-114 ULF1 (FD 04)



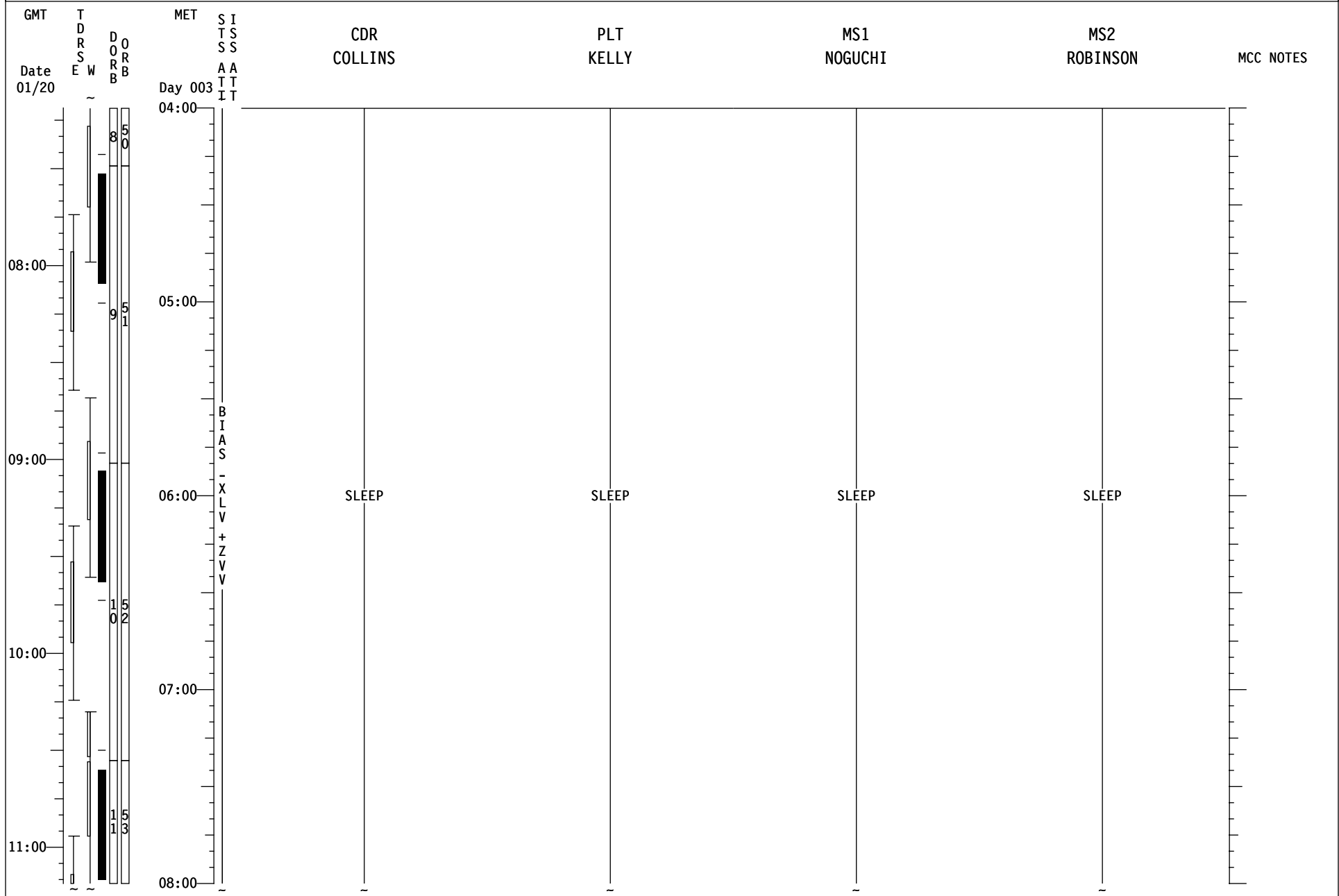
# STS-114 ULF1 (FD 04)



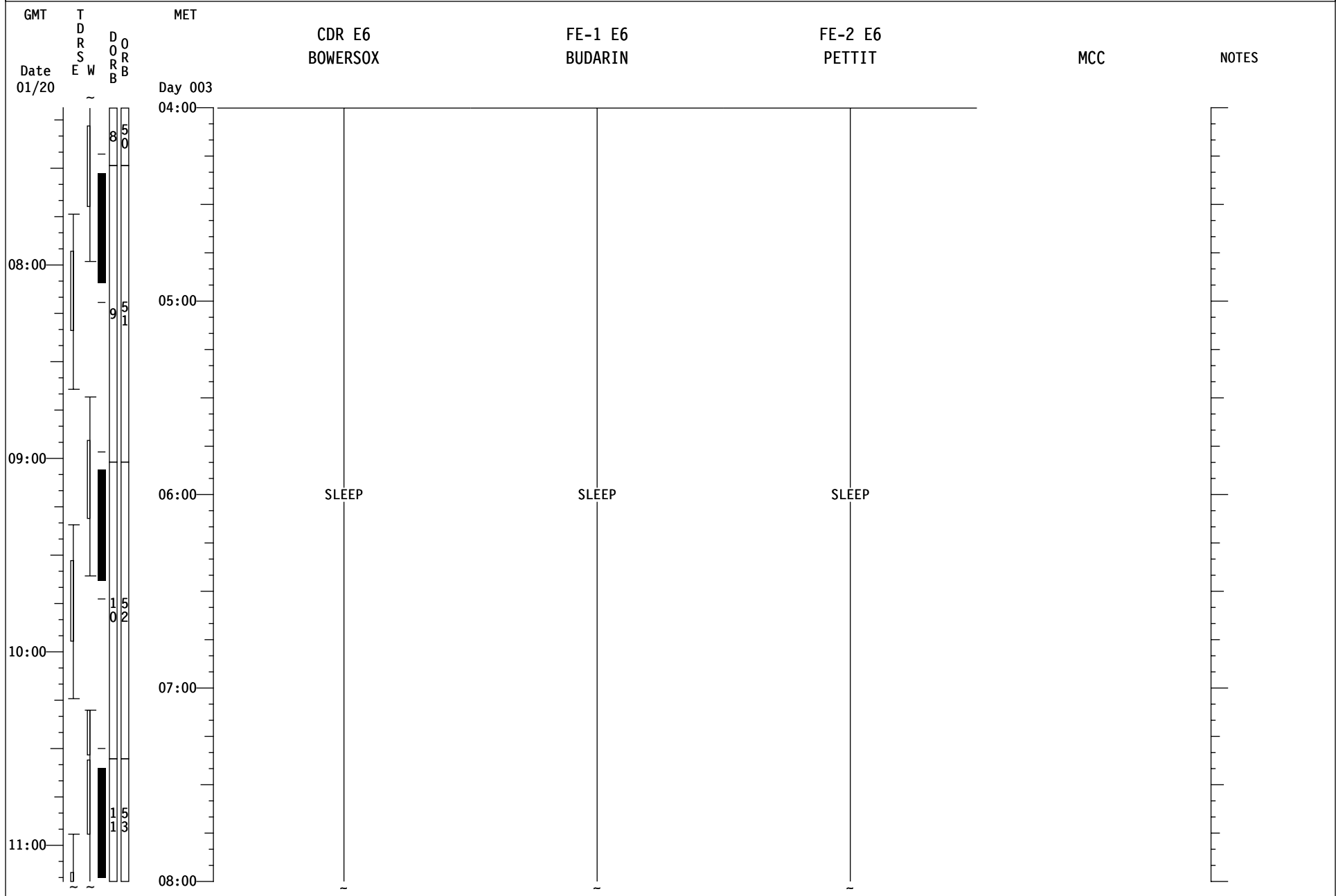
# STS-114 ULF1 (FD 04)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/20			Day 003					
00:00				MPLM VESTIBULE-CONFIG INGRESS (S&M, NOMINAL)				
				MPLM INGRESS (MPLM, NOMINAL)		EVA BRIEFING CARD (EVA, TIMELINES)		
				MPLM S/U FOR TRANSFER Ref. MPLM RESUPPLY XFER LIST	TRANSFER Ref. MDDK TRANSFER LIST			
04:00								
			01:00					
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
05:00								
			02:00	DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF		
						PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
06:00						DAILY STS/ISS CREW TRANSFER TAGUP		
			03:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DAILY TRANSFER BRIEFING		
						PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
07:00								
			04:00					

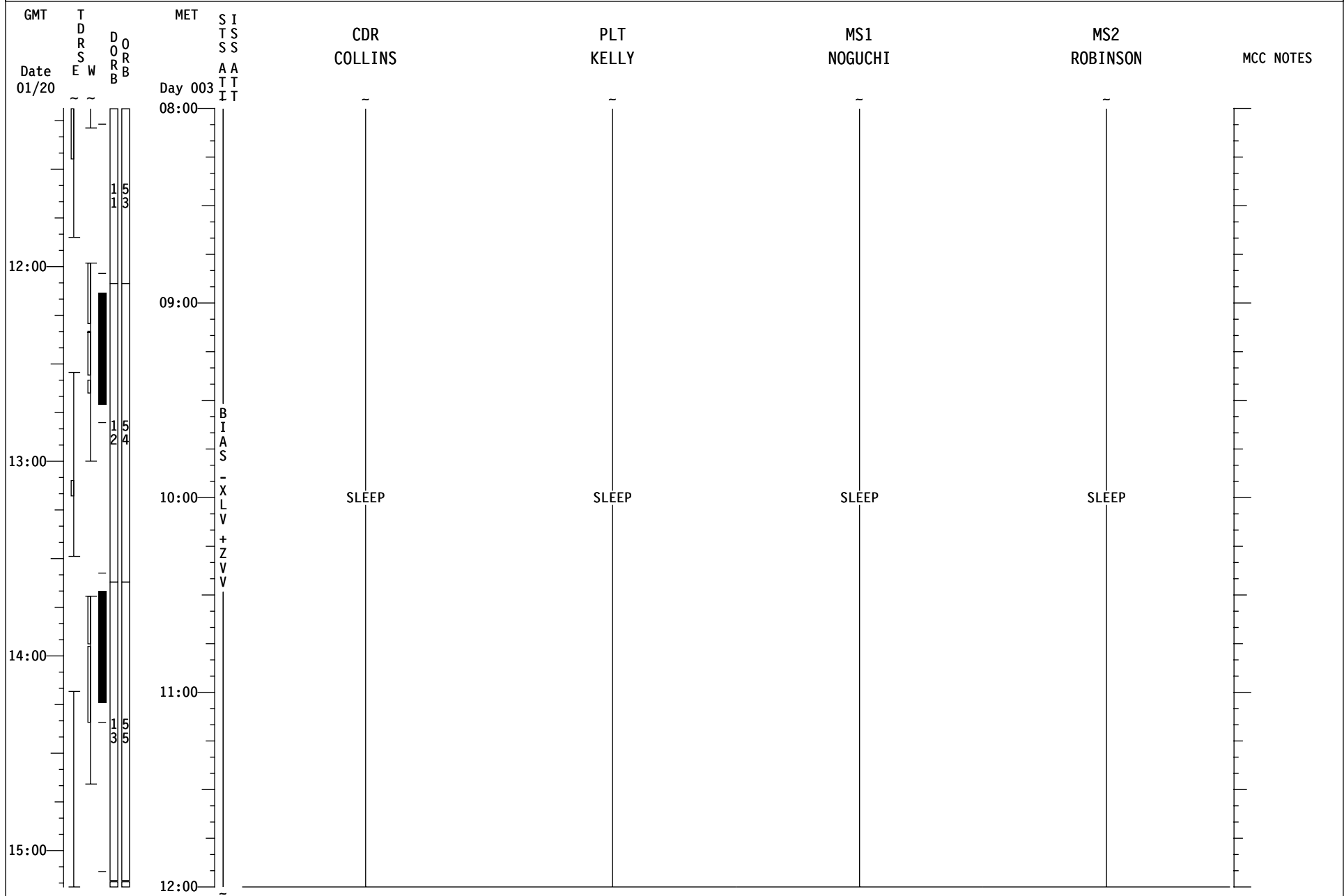
# STS-114 ULF1 (FD 04)



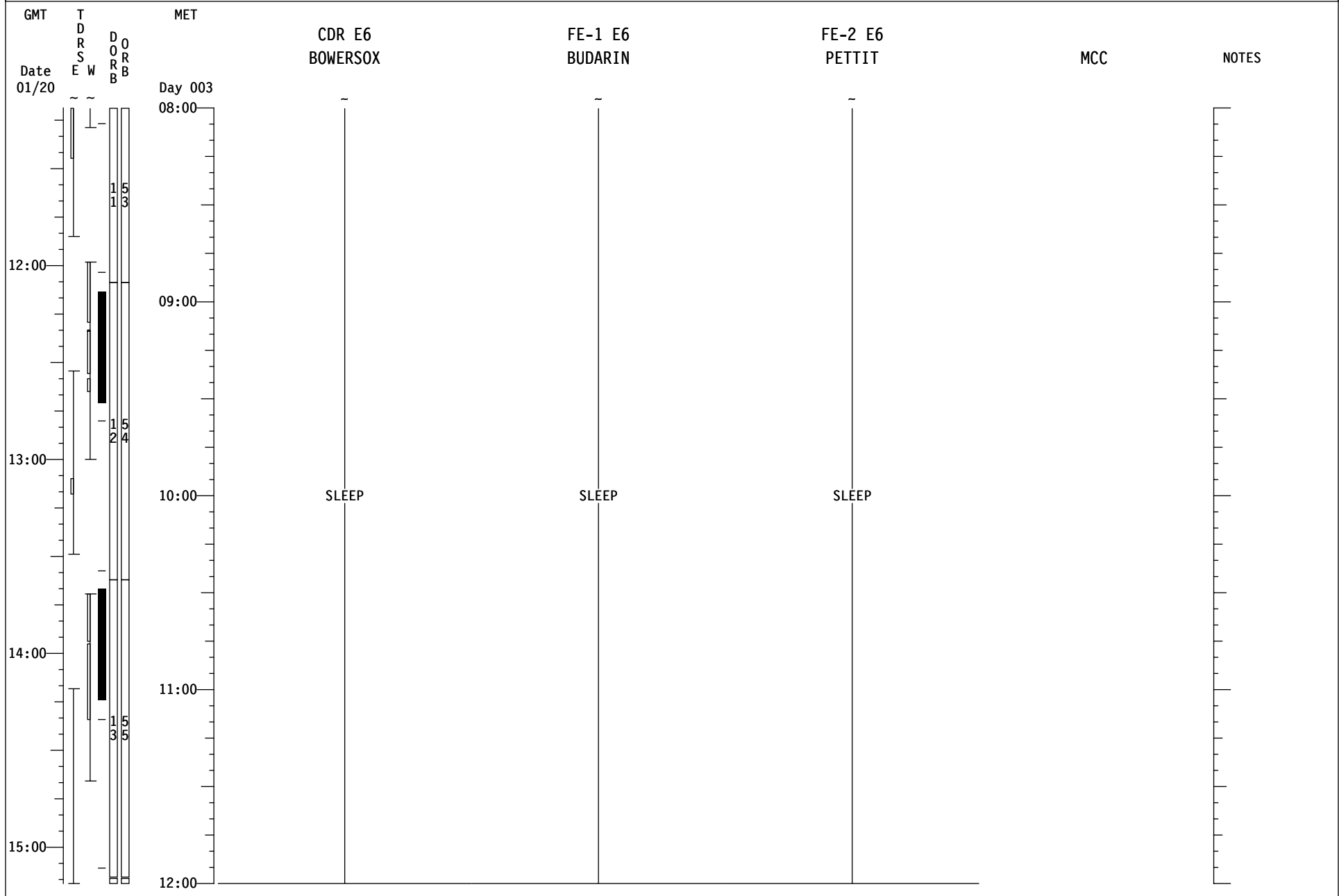
# STS-114 ULF1 (FD 04)



# STS-114 ULF1 (FD 04)



# STS-114 ULF1 (FD 04)

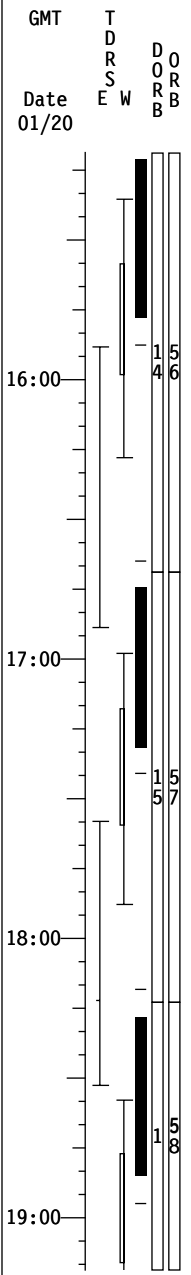


# STS-114 ULF1 (FD 05)

GMT Date 01/20	T D R S E W	D O R B	MET Day 003	S I T S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			12:00		<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>			
					<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)		<u>POST SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
					06 <u>UHF MODE - OFF</u> <u>A/G PRIVATE MEDICAL CONFERENCE</u>	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>GALLEY MORNING CONFIG</u> (ORB OPS, ECLS)		
16:00					<u>STS LEH CONFIG FOR EVA P/B ON ISS</u> (ISS EVA SYS, 10.2 PSIA OPS)				
			13:00		<u>EVA PREP USING SHUTTLE 02</u> (ISS EVA SYS, EVA PREP)		<u>EVA PREP USING SHUTTLE 02</u> (ISS EVA SYS, EVA PREP)	<u>EVA PREP USING SHUTTLE 02</u> (ISS EVA SYS, EVA PREP)	
						<u>TRANSFER REVIEW</u> Update MASTER Xfer list			
						<u>EVA 1 INHIBIT PAD</u> (EVA, TIMELINES)			
17:00									
						<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)			
						<u>WORE TRANSFER</u> (ASSY OPS, TRANSFER)			
18:00									
						<u>MELFI TRANSFER</u> (ASSY OPS, TRANSFER)			
19:00									
					<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP)		<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP)	<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP)	
			16:00						

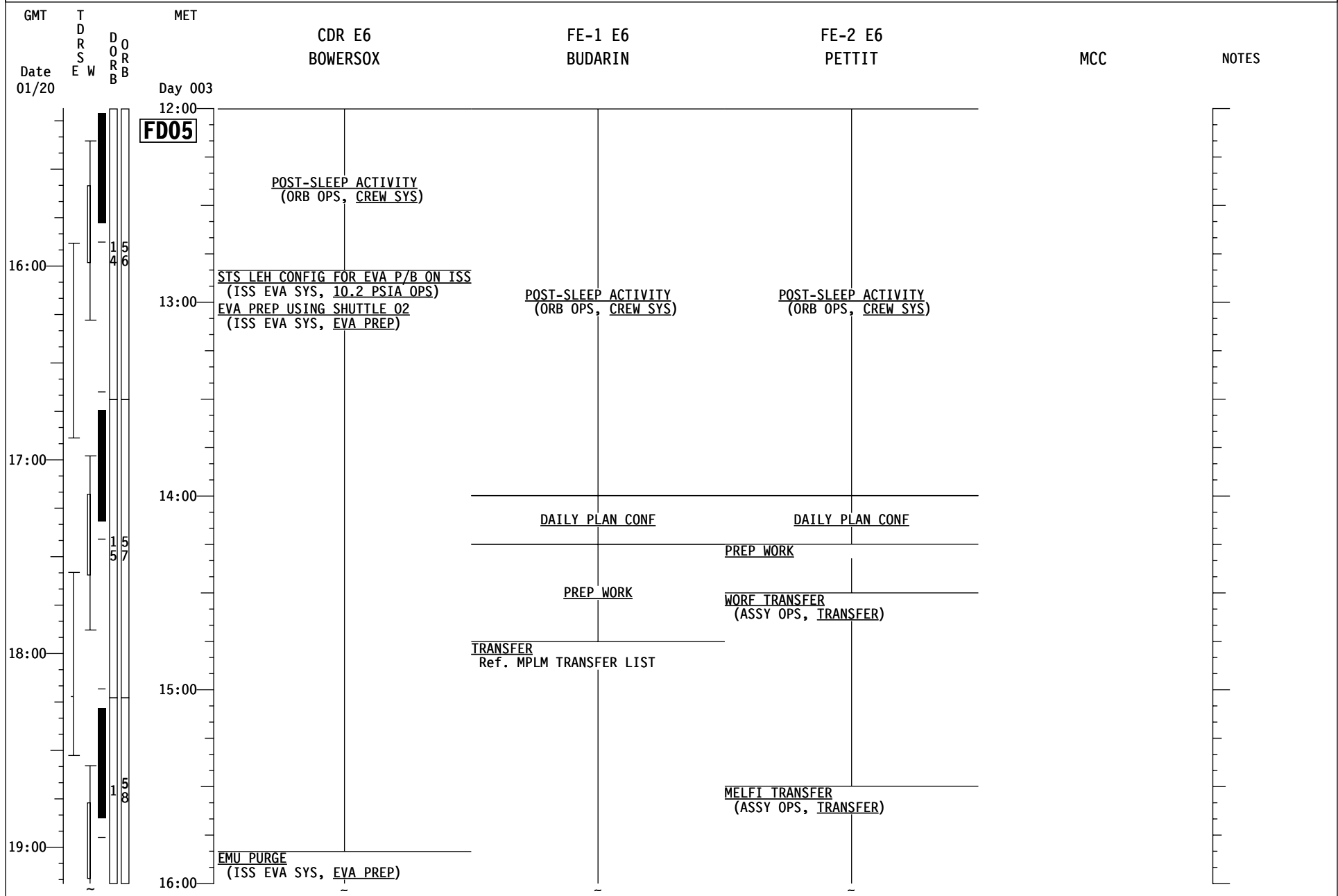
**FD05**

**FD05 EZ ACTIVITIES**  
 REBOOT PGSCs  
 QCAC FILTER INSPECT  
 TPC (POWER UP)  
 (ORB OPS, CREW SYS)  
 STEP 6

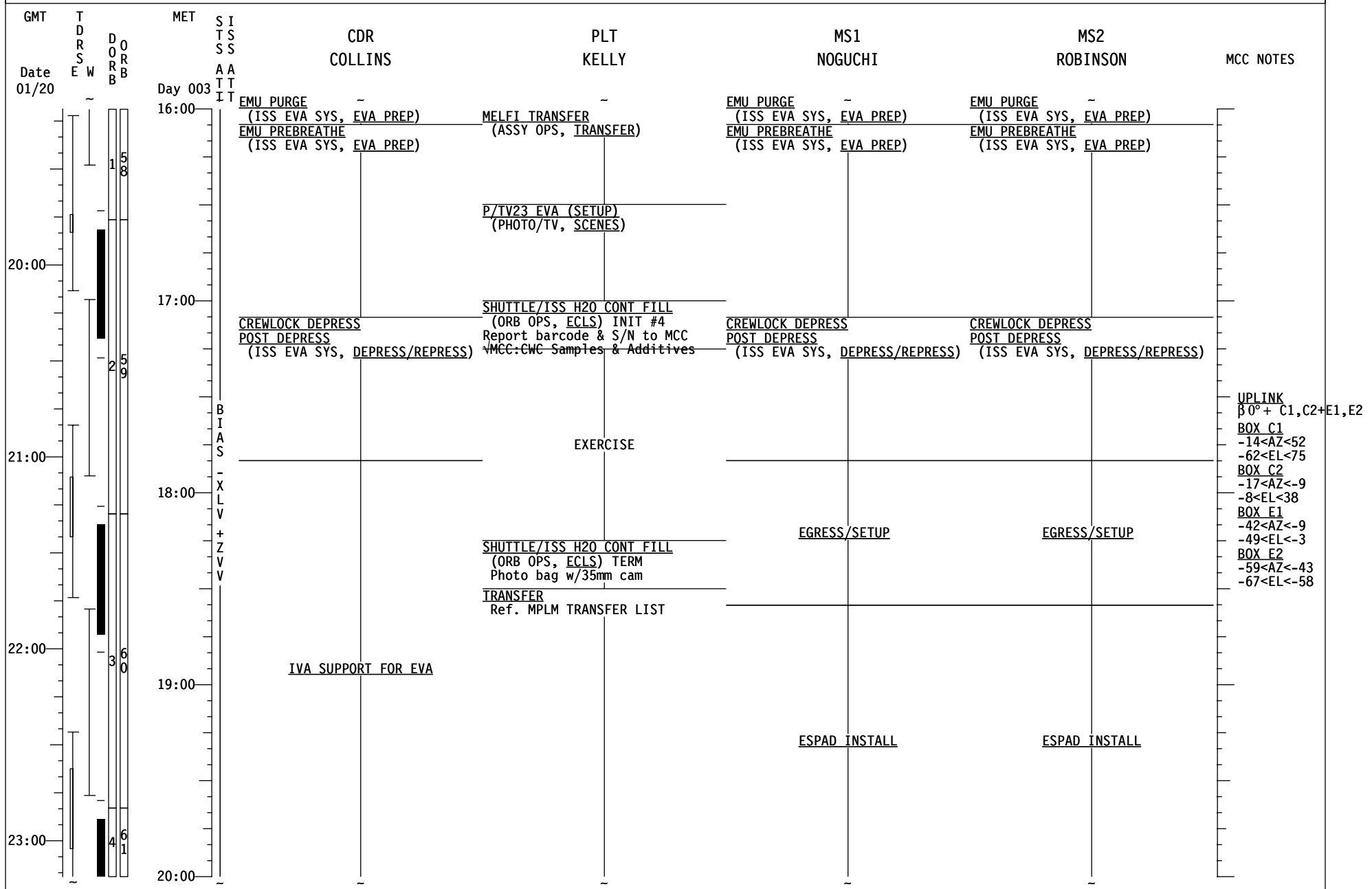




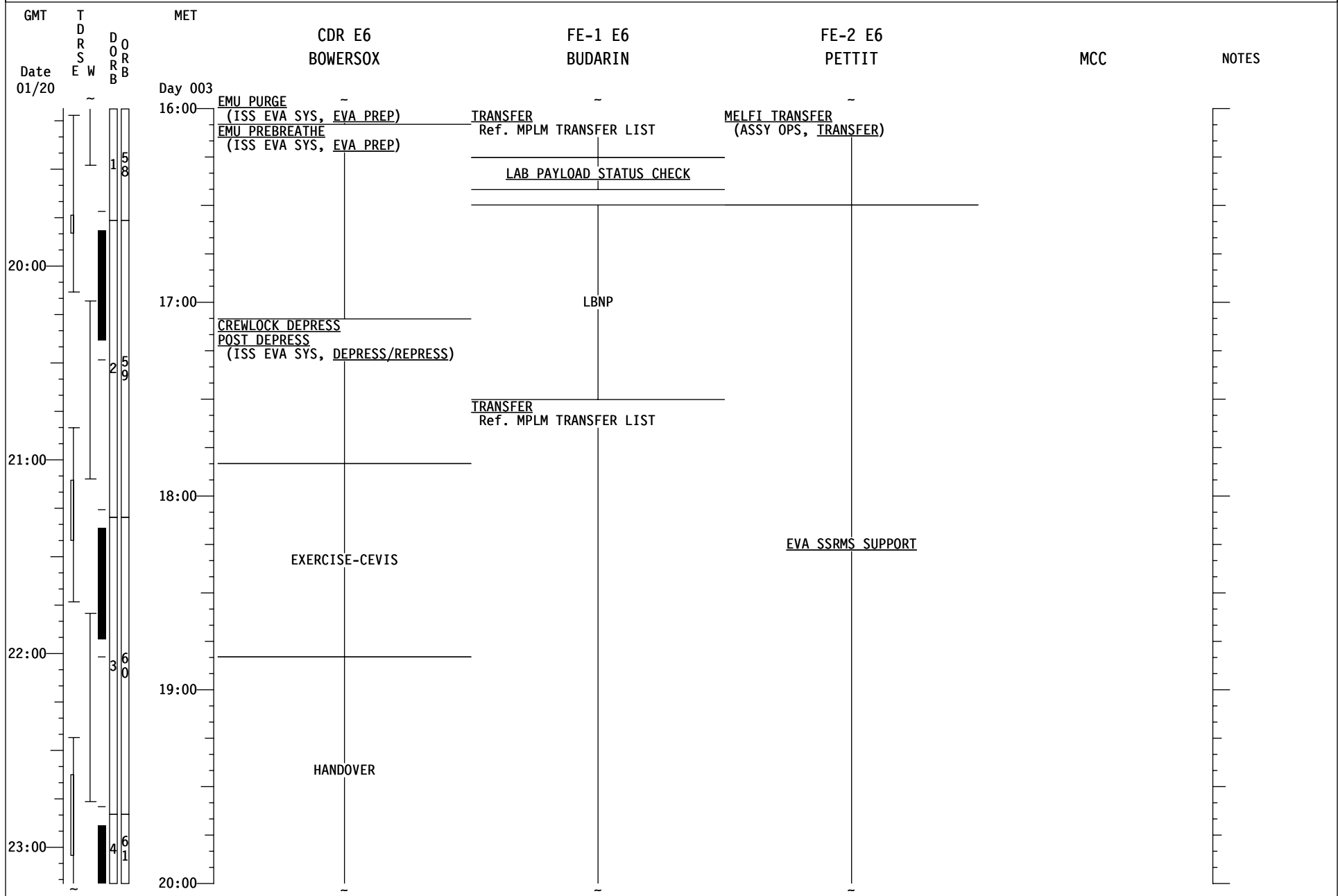
# STS-114 ULF1 (FD 05)



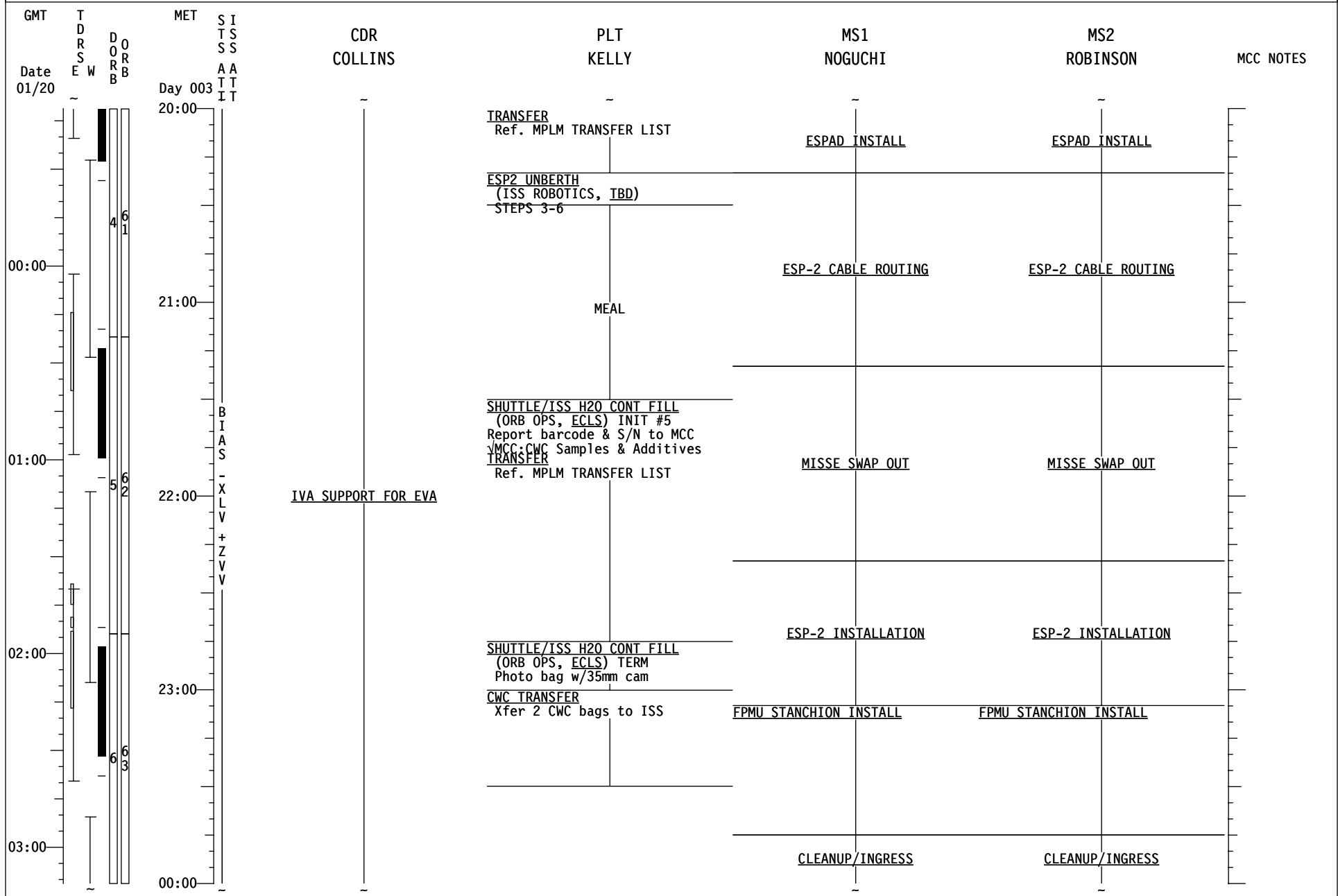
# STS-114 ULF1 (FD 05)



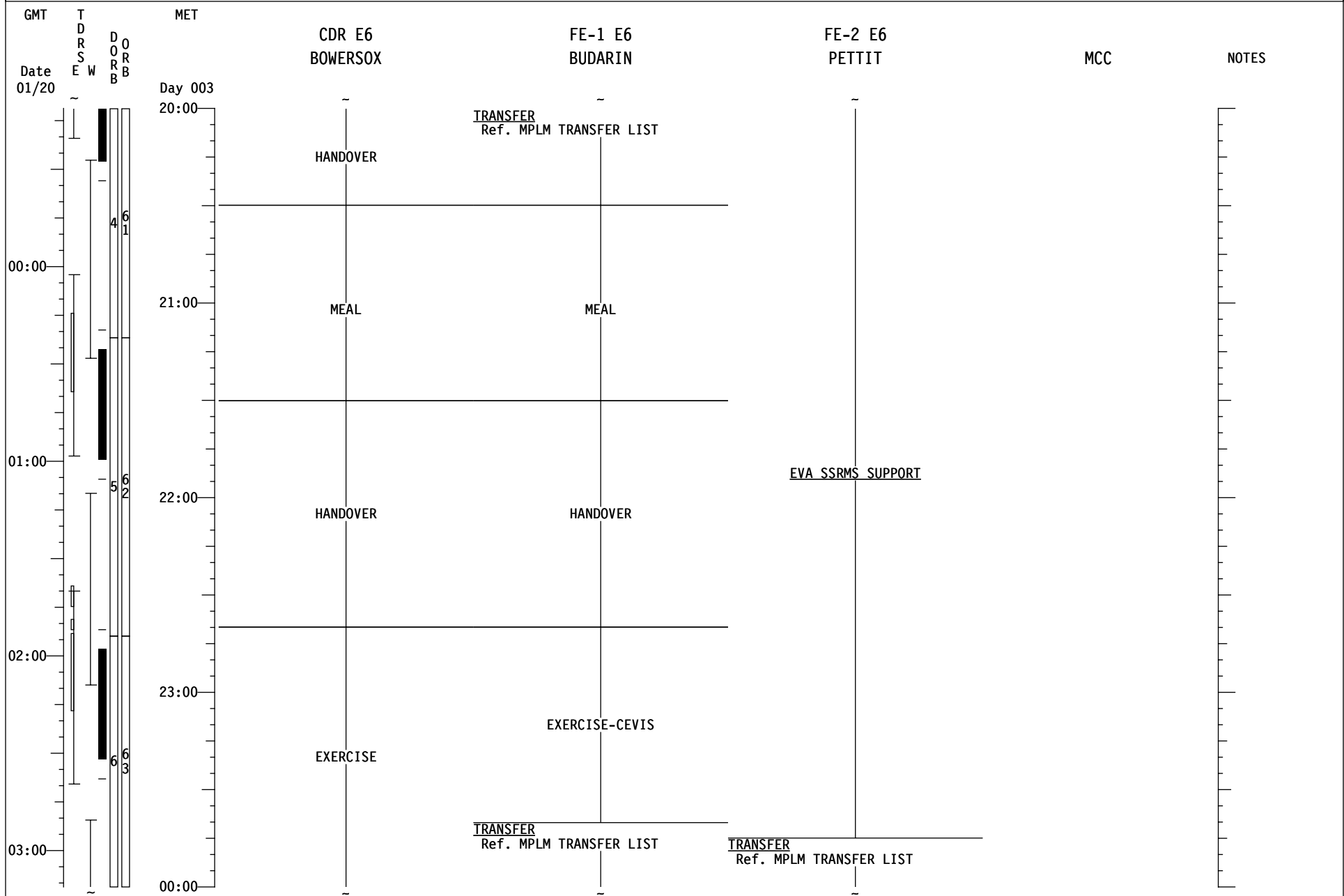
# STS-114 ULF1 (FD 05)



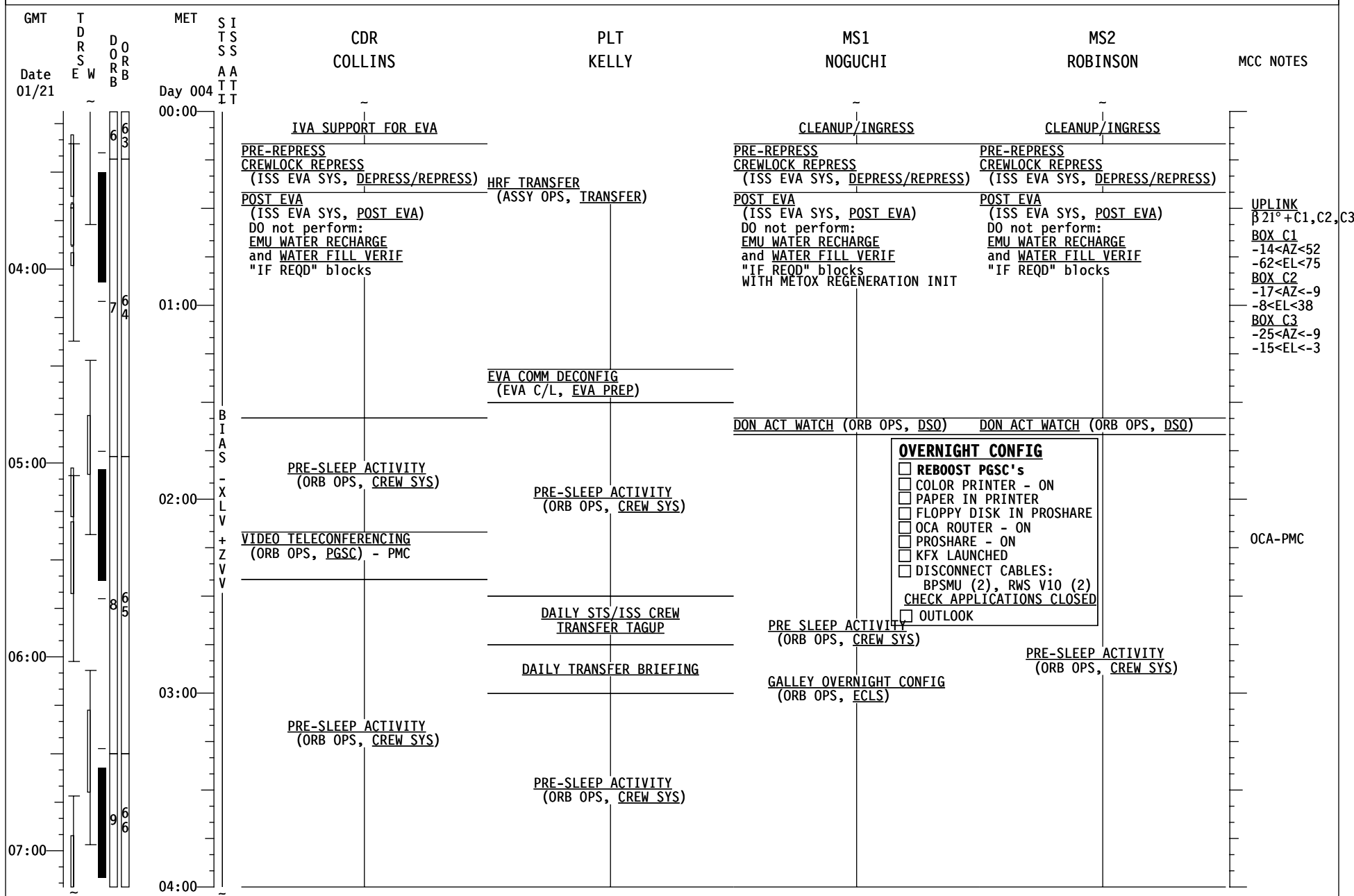
# STS-114 ULF1 (FD 05)



# STS-114 ULF1 (FD 05)



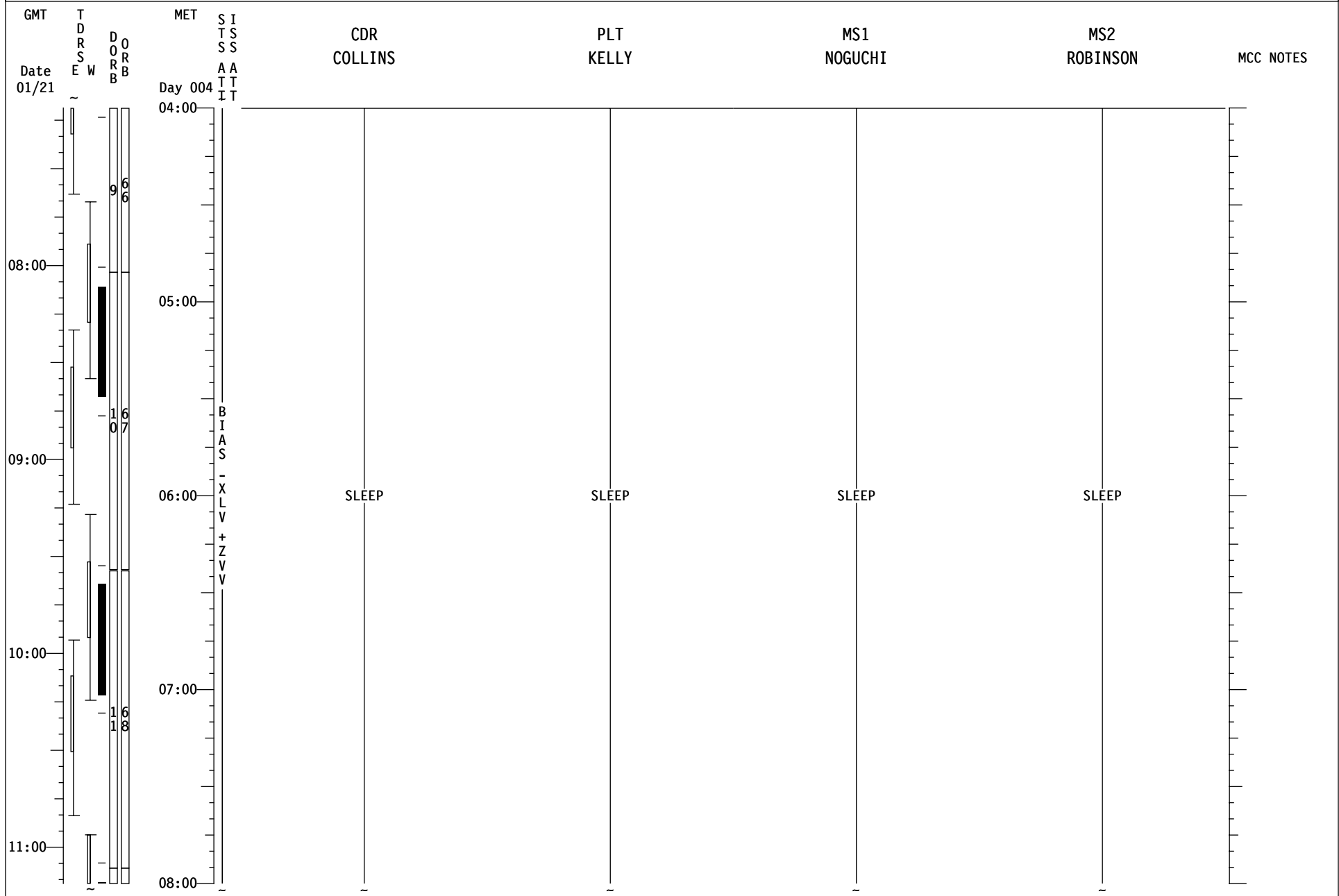
# STS-114 ULF1 (FD 05)



# STS-114 ULF1 (FD 05)

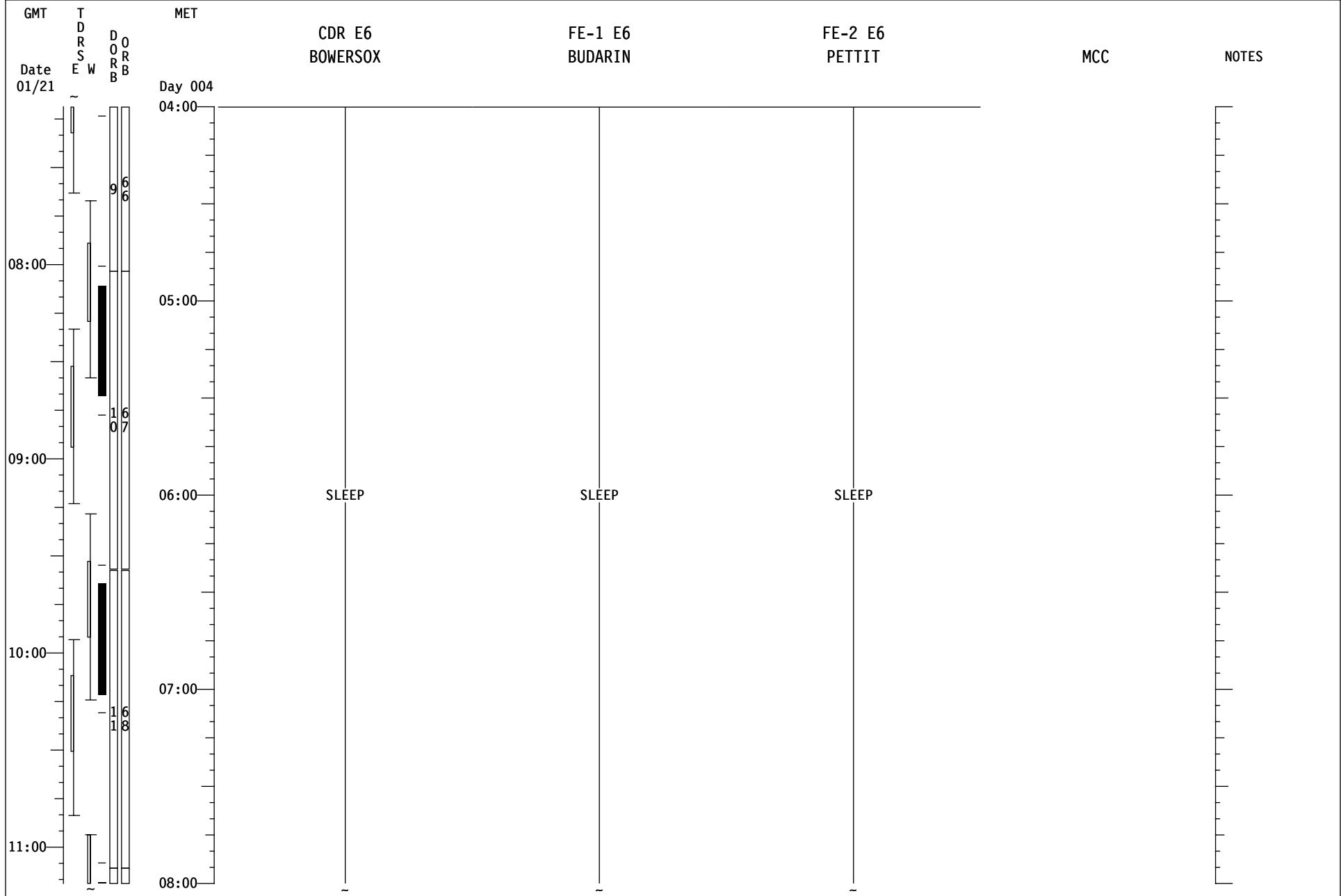
GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/21			Day 004					
			00:00	EXERCISE	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		
				<u>PRE-REPRESS</u> <u>CREWLOCK REPRESS</u> (ISS EVA SYS, <u>DEPRESS/REPRESS</u> )				
				<u>POST EVA</u> (ISS EVA SYS, <u>POST EVA</u> ) DO not perform: <u>EMU WATER RECHARGE</u> and <u>WATER FILL VERIF</u> "IF REQD" blocks		<u>HRF TRANSFER</u> (ASSY OPS, <u>TRANSFER</u> )		
04:00								
			01:00		IMS File Prep			
				<u>METOX/LIOH/EMU BATTERY REPLACE</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> )				
				<u>BSA BATTERY RECHARGE INIT</u> (ISS EVA SYS, <u>EMU MAINT/RECHRG</u> )	<u>DAILY PLAN CONF</u>			
05:00				<u>СЖО-СИГНАЛ-ВМ-СВ/О</u>		EXERCISE-TVIS		
			02:00					
				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )			
06:00								
			03:00			<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )		
07:00								
			04:00					

# STS-114 ULF1 (FD 05 )

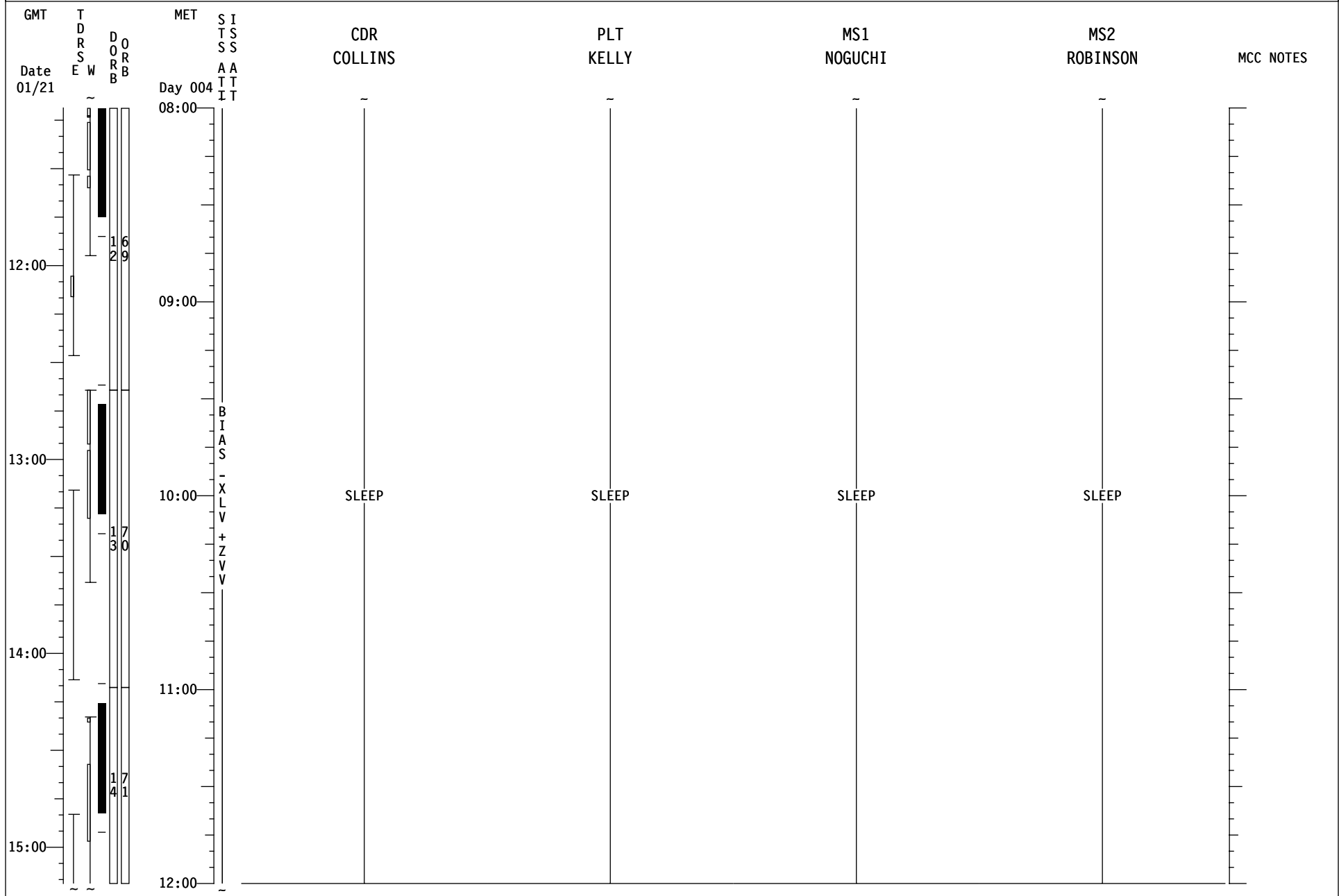




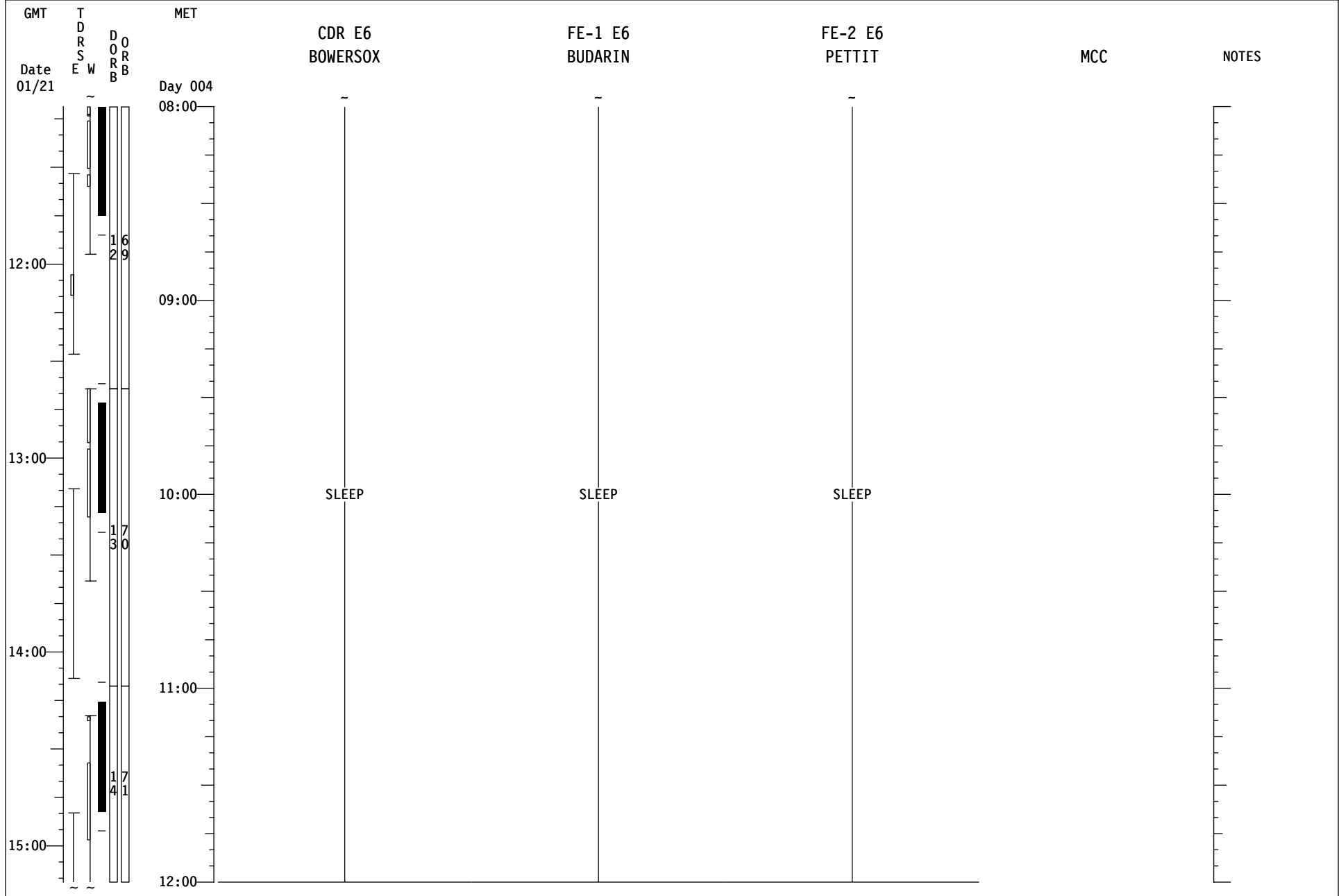
# STS-114 ULF1 (FD 05 )



# STS-114 ULF1 (FD 05)



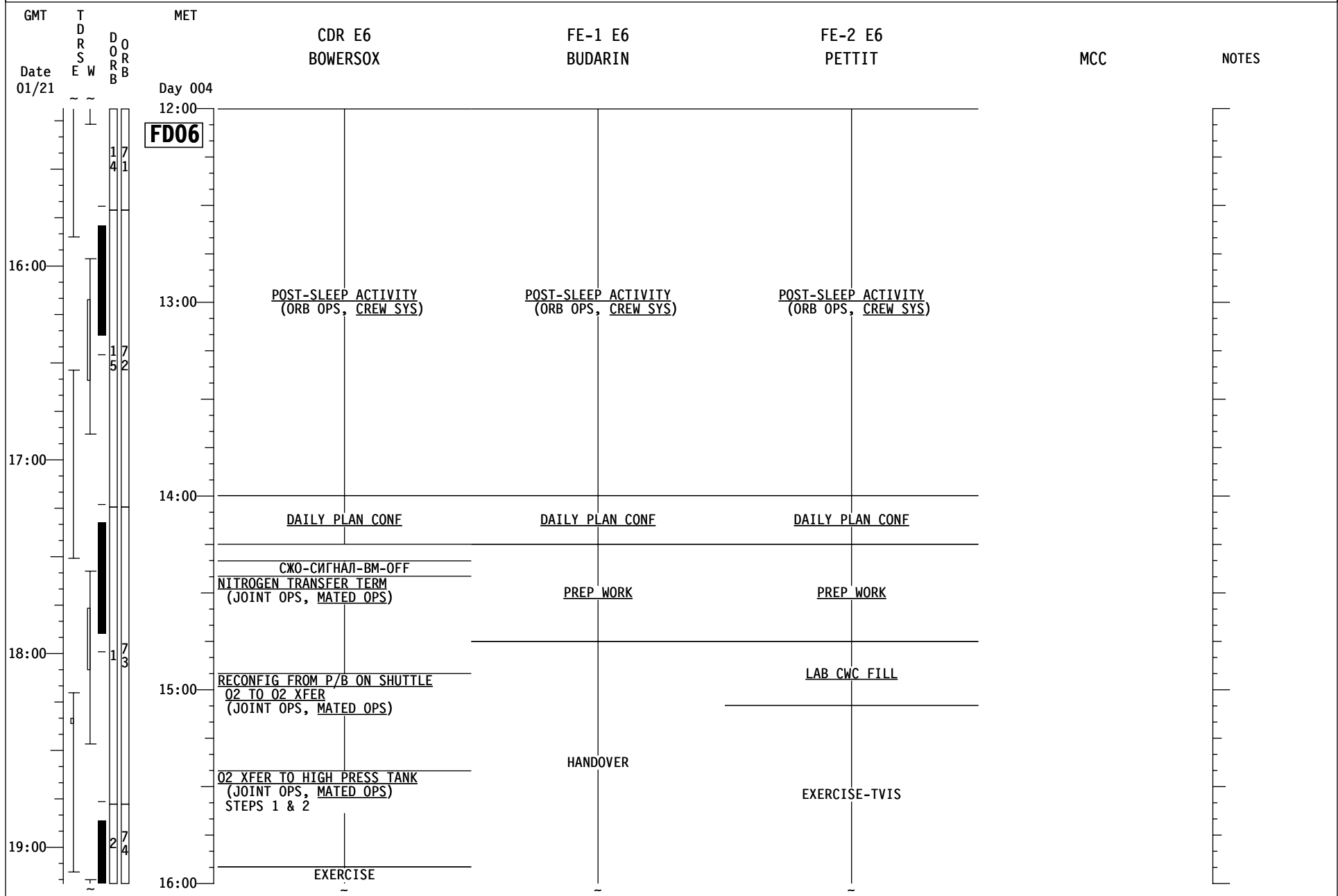
# STS-114 ULF1 (FD 05 )



# STS-114 ULF1 (FD 06)

GMT Date 01/21	TDRSEW DORB	MET Day 004	SITS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
	17 41	12:00		<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>				
	17 52			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <b>FD06 EZ ACTIVITIES</b>                      OCAC FILTER INSPECT                      TEPC (POWER UP) (ORB OPS, CREW SYS)                      STEP 6                 </div>				
16:00		13:00	BIAS	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)  GALLEY MORNING CONFIG (ORB OPS, ECLS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
17:00		14:00	XLV +ZVV				NITROGEN TRANSFER TERM (JOINT OPS, MATED OPS)	
18:00	17 3			H/O ATT CONTROL CMG IA to ORB (JOINT OPS, MATED OPS)	TRANSFER REVIEW Update MASTER Xfer list	P/TV24 ISS EXTERNAL SURVEY (S/U) (PHOTO/TV, SCENES) REBOOST	RECONFIG FROM P/B ON SHUTTLE O2 TO O2 XFER (JOINT OPS, MATED OPS)	
		15:00	REBOOST	MNVR (TRK) REBOOST TG=2 BV=5 P=300 Y=0 OM=0 A/AUTO/VERN Init TRK (4/14:50)	FILTER CLEANING (IFM, SCHEDULED MAINTENANCE) Inspect filters and clean as necessary	P/TV24 ISS EXTERNAL SURVEY (OPS) (PHOTO/TV, SCENES)	O2 XFER TO HIGH PRESS TANK (JOINT OPS, MATED OPS) STEPS 1 & 2	
19:00	27 4		BOOST	AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4				
		16:00			WCS COMPACTOR OPS (DUAL-VANE) (ORB OPS, CUE CARD)		EXERCISE	

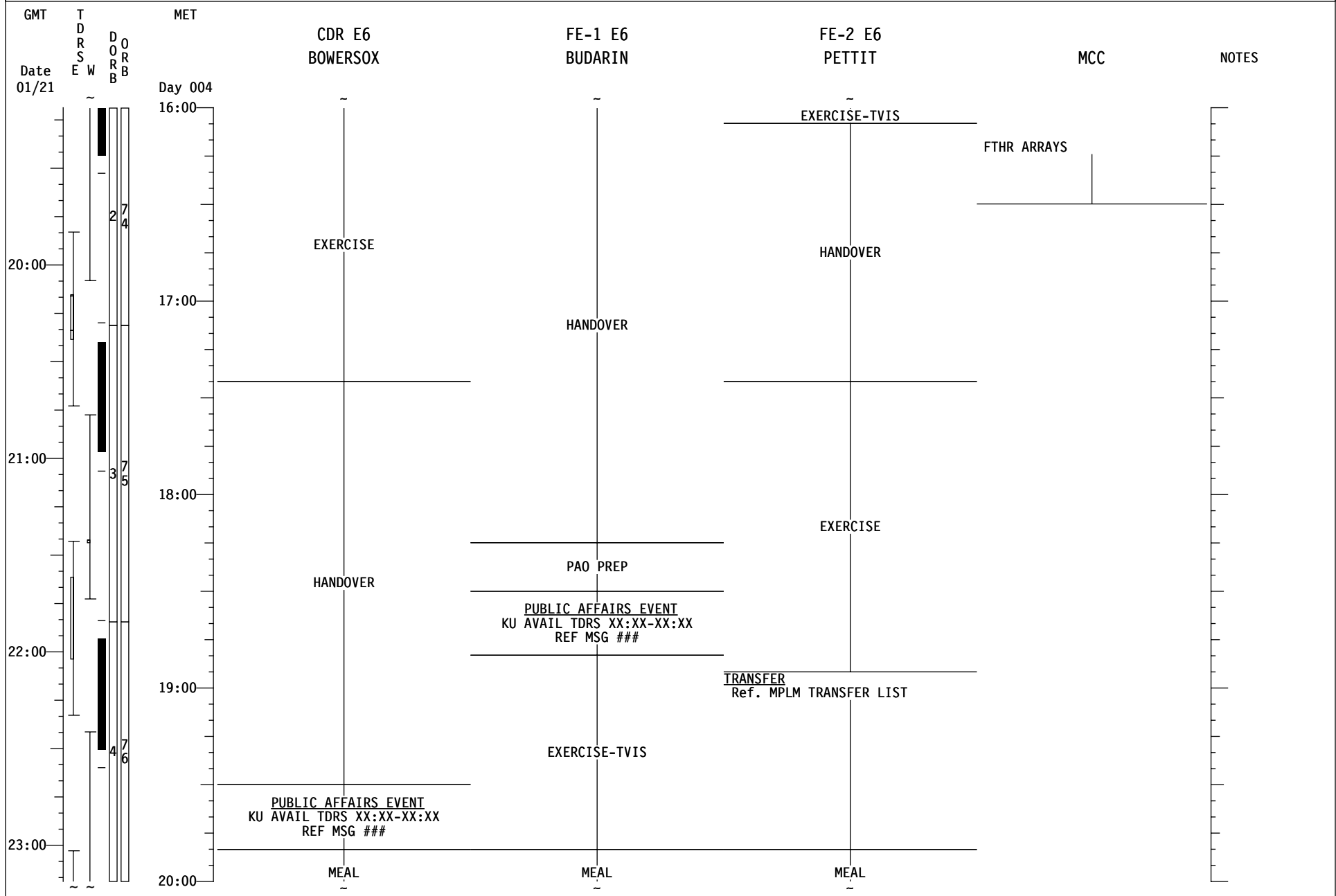
# STS-114 ULF1 (FD 06)



# STS-114 ULF1 (FD 06)

GMT	TDRS E W	DORB	MET	S I T S S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/21			Day 004						
16:00					<u>AUTO REBOOST</u> (ORB OPS, <u>REBOOST/DAP</u> ) CONFIG 4	<u>WCS COMPACTOR OPS (DUAL-VANE)</u> (ORB OPS, <u>CUE CARD</u> ) <u>P/TV21 ISS INTRNL OPS (S/U)</u> (PHOTO/TV, <u>SCENES</u> )	<u>P/TV24 ISS EXTERNAL SURVEY (OPS)</u> (PHOTO/TV, <u>SCENES</u> )		
20:00		274			<u>MNVR (TRK) BIAS -XLV +ZV</u> TG=2 BV=5 P=156 Y=356 OM=1 A/AUTO/VERN Init TRK (4/16:30)		<u>TAKE 1 ASPIRIN (325mg)</u> <u>EMU WATER RCHRG</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> ) <u>EMU POWERDOWN</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> )	<u>EXERCISE</u>	
17:00					<u>H/O ATT CONTROL ORB to CMG TA</u> (JOINT OPS, <u>MATED OPS</u> ) <u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, <u>ECLS</u> ) INIT #6 Report barcode & S/N to MCC √MCC:CWC Samples & Additives	<u>EXERCISE</u>		<u>TAKE 1 ASPIRIN (325mg)</u> <u>BSA BATTERY RECHARGE TERM</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> ) <u>EMU WATER RCHRG</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> ) <u>EMU POWERDOWN</u> (ISS EVA SYS, <u>EMU MAINT/RCHRG</u> )	
21:00		375			<u>EXERCISE</u>		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	
18:00					<u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, <u>ECLS</u> ) TERM Photo bag w/35mm cam <u>CWC TRANSFER</u> Xfer 1 CWC bag to ISS		<u>EXERCISE</u>		
22:00									
19:00						<u>SHUTTLE CONDENSATE COLLECTION</u> (ORB OPS, <u>ECLS</u> ) CHANGEOUT, STEPS 1-6 <u>HTR RCNFG-CNFG B (ORB OPS, EPS)</u> <u>CABIN TEMP CNTL RECONFIG 2(1)</u> (ORB OPS, <u>ECLS</u> ) <u>PCS 1(2) CONFIG</u> (ORB OPS, <u>ECLS</u> ) <u>RCS REG RCNFG</u> (ORB OPS, <u>RCS</u> ) √ WCS hose block filter	<u>P/TV21 ISS INTRNL OPS (S/U)</u> (PHOTO/TV, <u>SCENES</u> )		
23:00		476			<u>PUBLIC AFFAIRS EVENT</u> KU AVAIL TDRS XX:XX-XX:XX REF MSG ###		<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	
20:00					MEAL	MEAL	MEAL	MEAL	

# STS-114 ULF1 (FD 06)

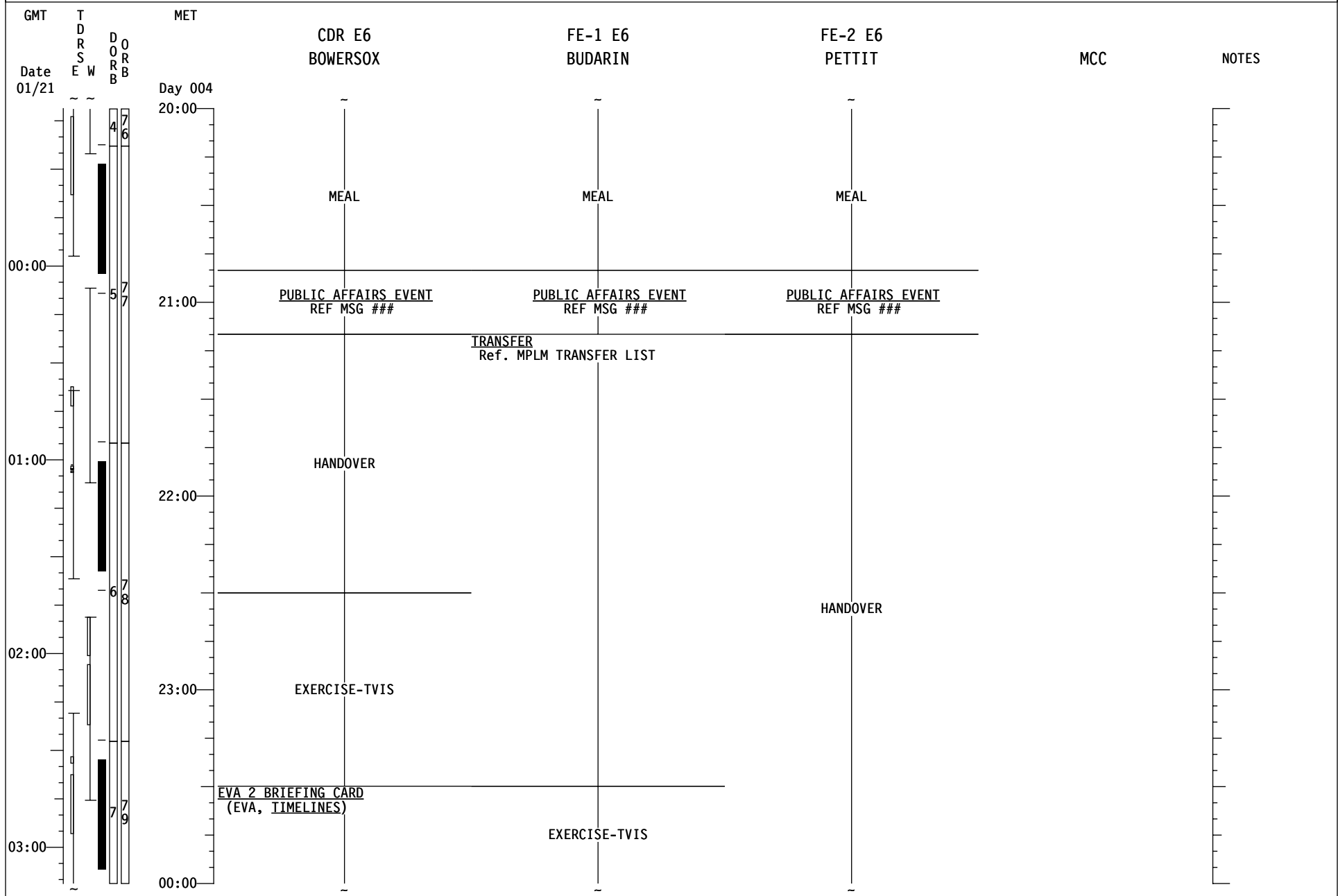


# STS-114 ULF1 (FD 06)

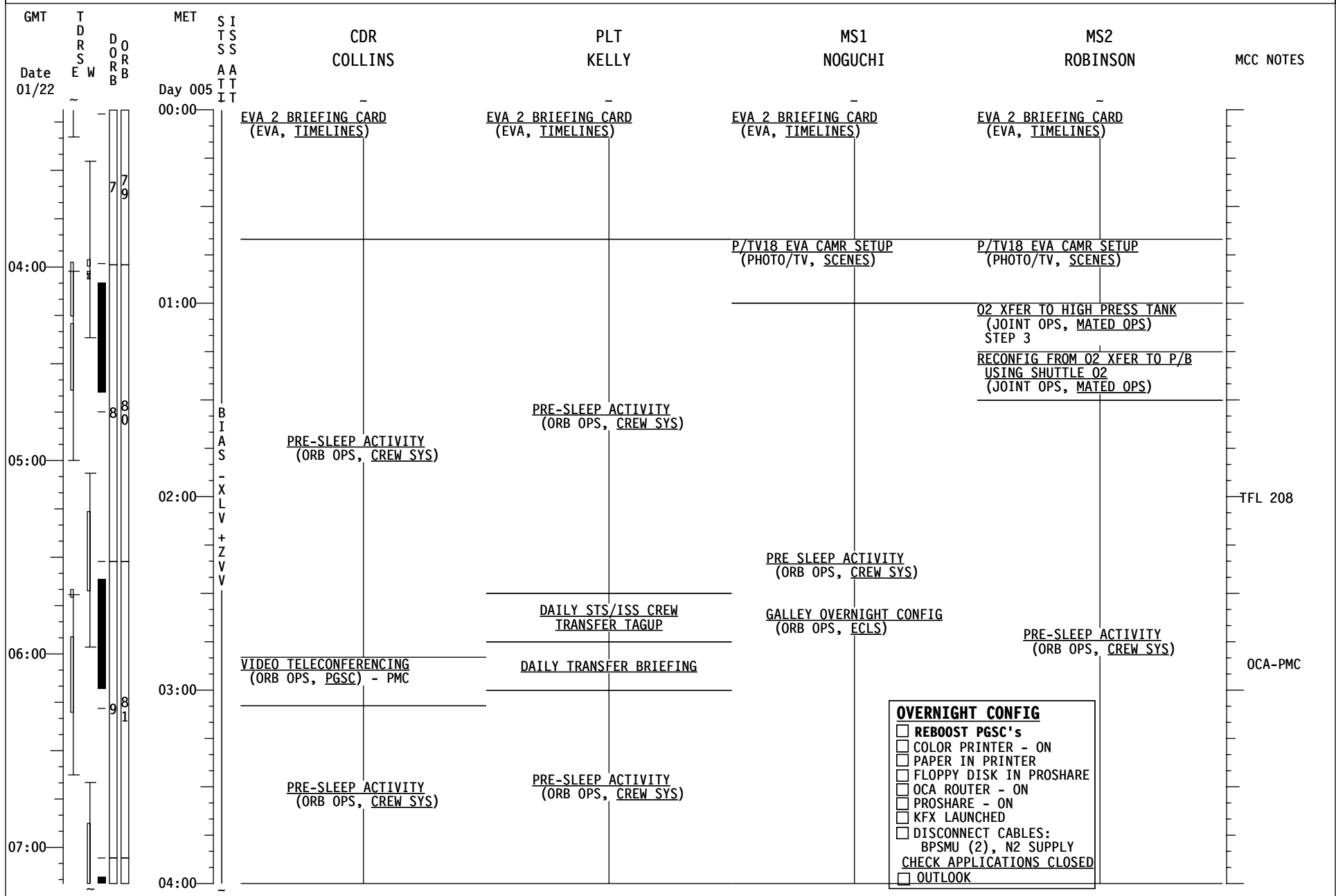
GMT Date 01/21	TDRSEW	DORB	MET Day 004	SITS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
00:00		476	20:00	BIAS	MEAL	MEAL	MEAL	MEAL	
01:00		577	21:00	+ZVV	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF, MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF, MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF, MSG ###	
					<u>EQUIPMENT LOCK PREP</u> (ISS EVA SYS, EVA PREP)	<u>H/O ATT CONTROL CMG TA to ORB</u> (JOINT OPS, MATED OPS) <u>MNVR (TRK) -XLV +YVV</u> TG=2 BV=5 P=155 Y=0 OM=270 A/AUTO/VERN Init TRK (4/21:20)	<u>EQUIPMENT LOCK PREP</u> (ISS EVA SYS, EVA PREP)	<u>EQUIPMENT LOCK PREP</u> (ISS EVA SYS, EVA PREP)	
02:00		678	22:00	SIMODUMP	<u>EVA 2 TOOL CONFIG</u> (EVA, TIMELINES)	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Initiate SUPPLY/WASTE Dump	<u>EVA 2 TOOL CONFIG</u> (EVA, TIMELINES)	<u>EVA 2 TOOL CONFIG</u> (EVA, TIMELINES)	<u>UPDATE</u> H2O WASTE DUMP QTY
			23:00			<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate SUPPLY/WASTE Dump			
03:00		779	00:00		<u>EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	<u>MNVR (TRK) BIAS -XLV +ZVV</u> TG=2 BV=5 P=156 Y=356 OM=1 A/AUTO/VERN Init TRK (4/23:15) <u>IMU STAR OF OPPTY ALIGN (ORB OPS)</u> <u>H/O ATT CONTROL ORB to CMG TA</u> (JOINT OPS, MATED OPS) <u>EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	<u>EVA 2 BRIEFING CARD</u> (EVA, TIMELINES)	



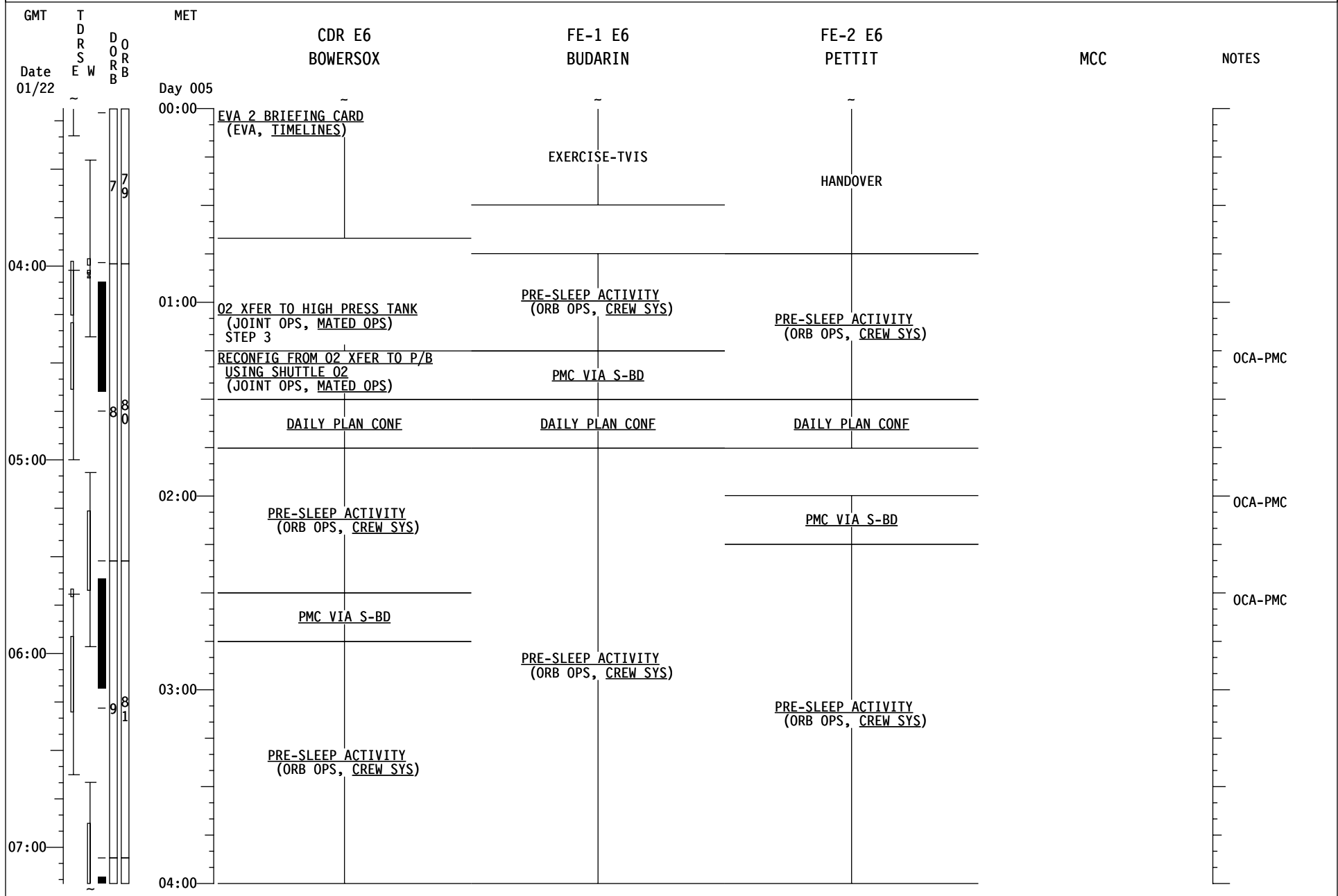
# STS-114 ULF1 (FD 06)



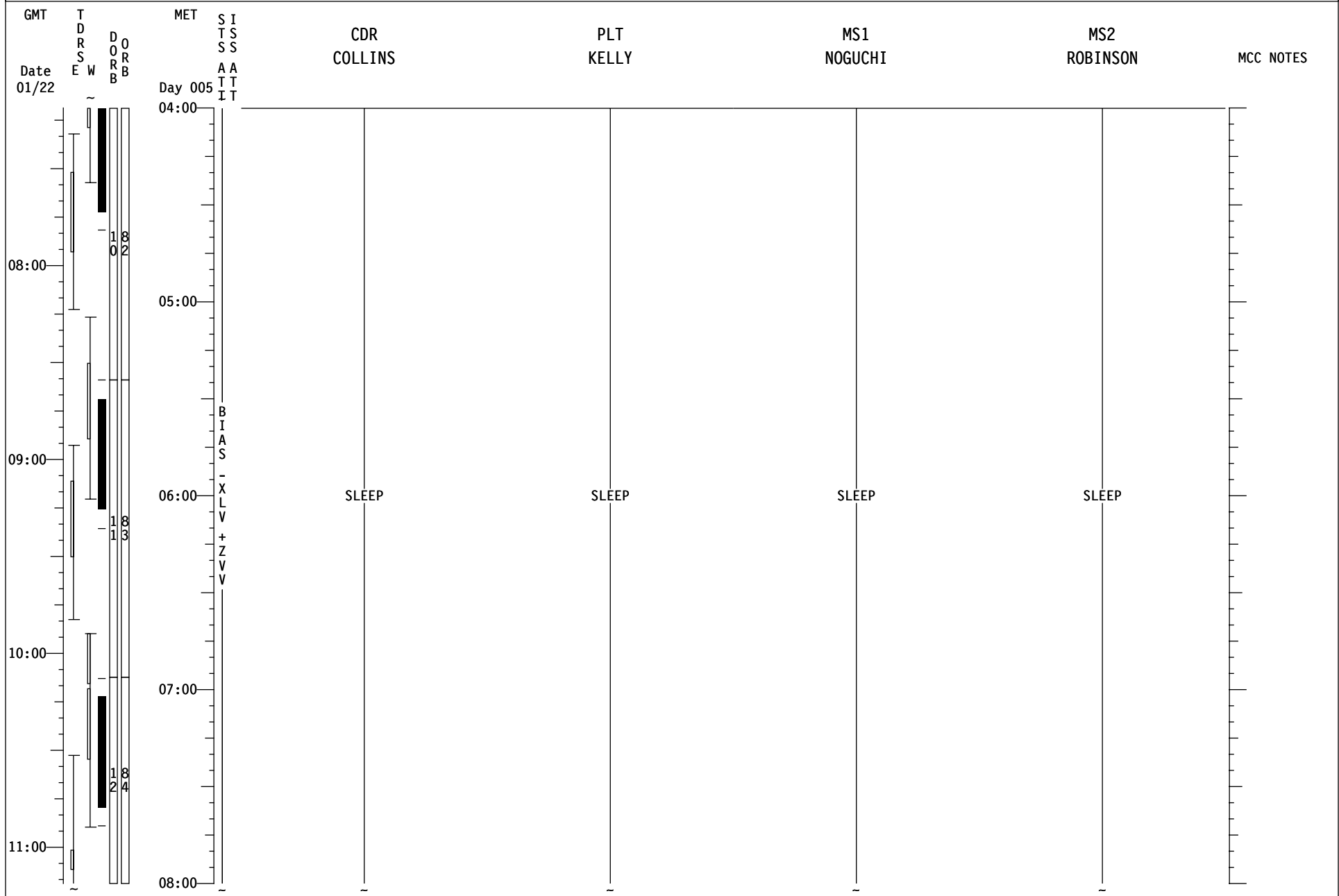
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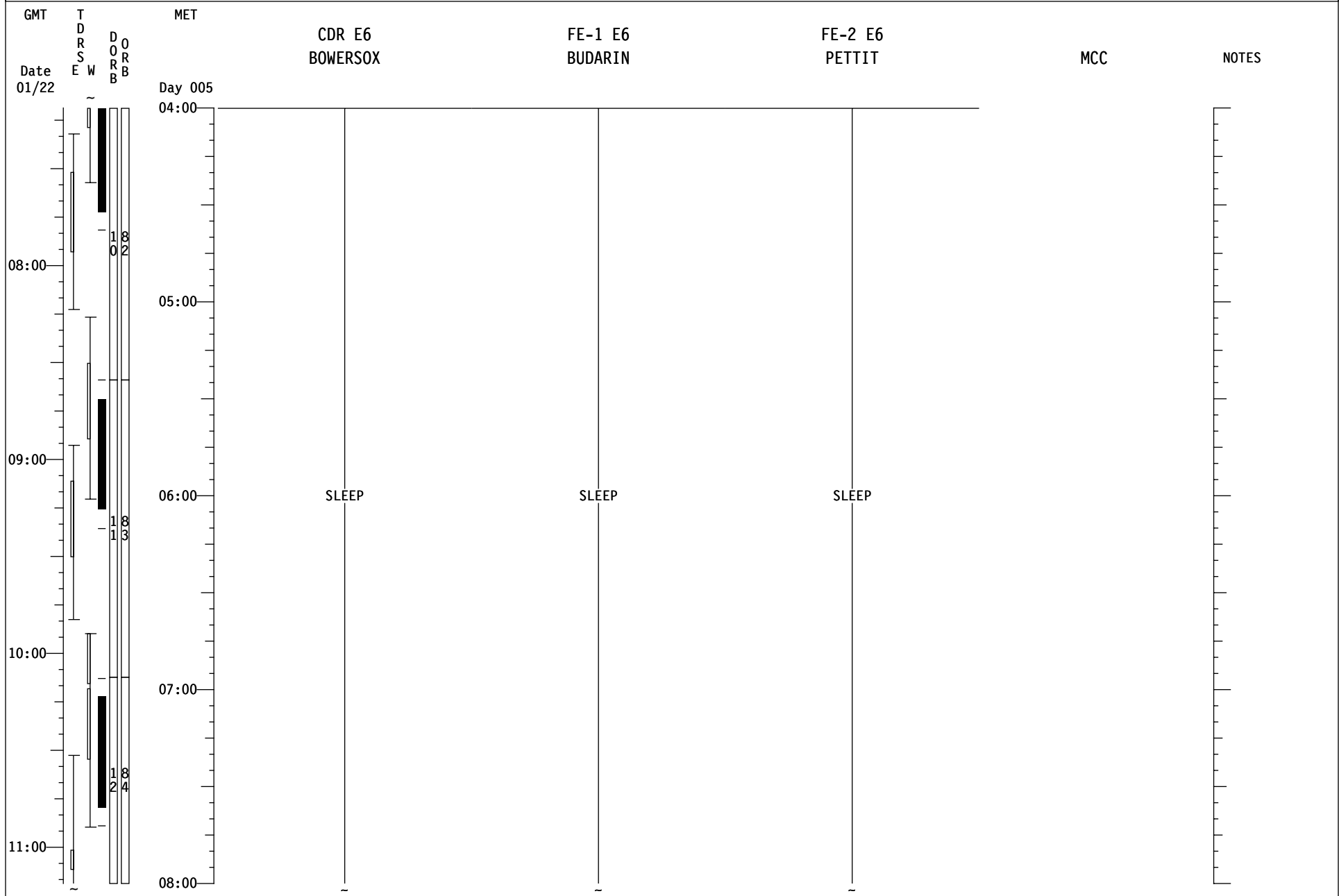
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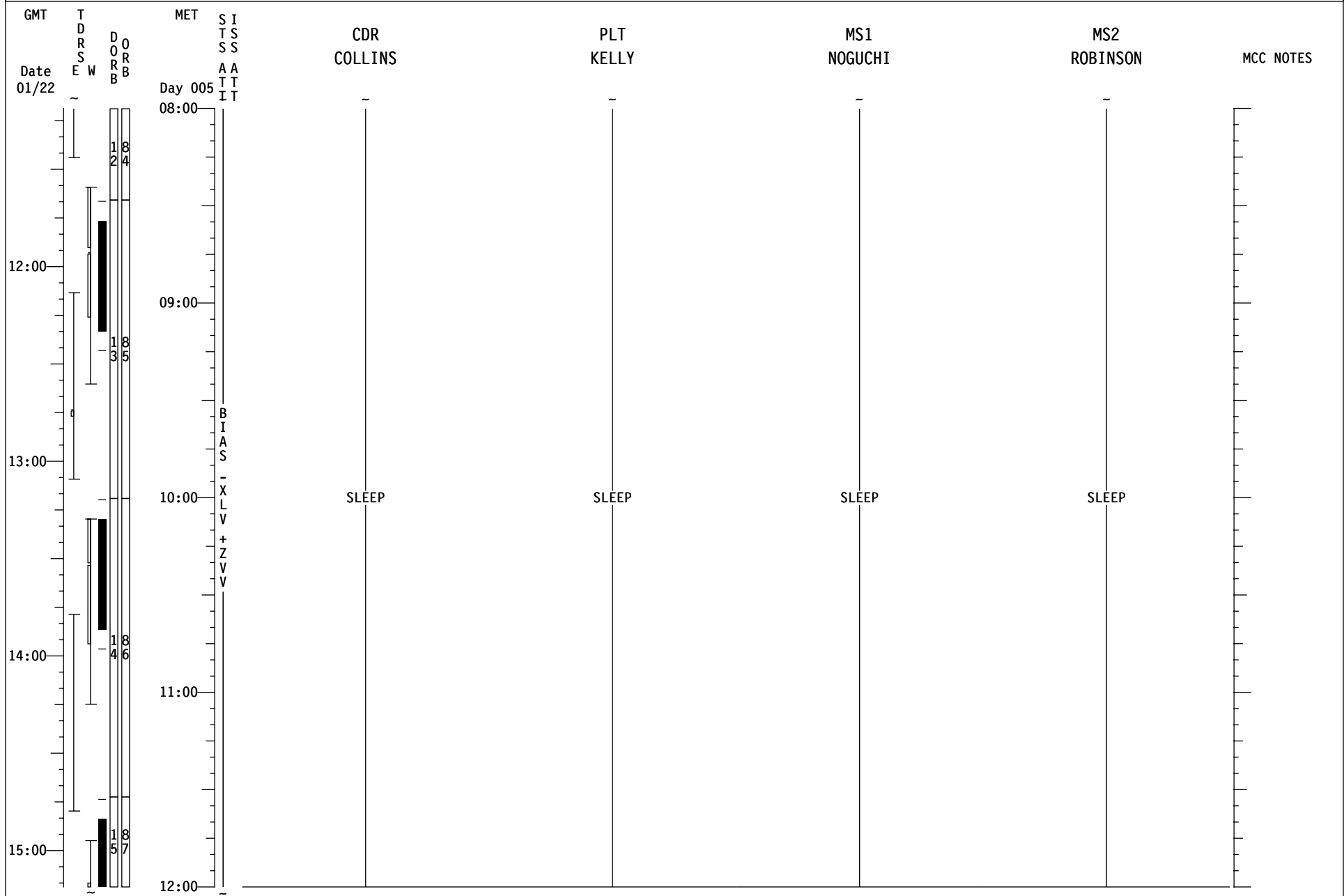
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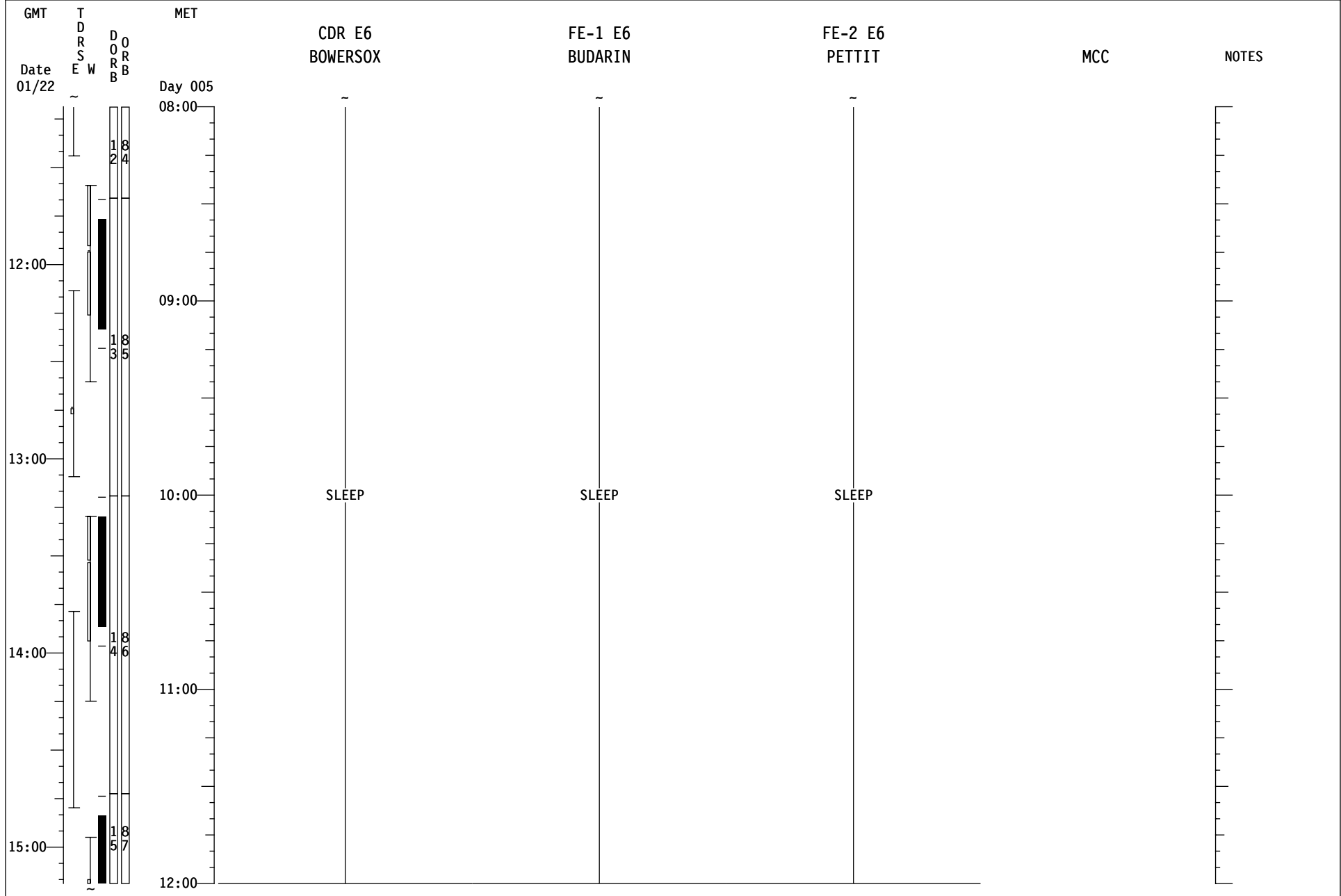
# STS-114 ULF1 (FD 06)



# STS-114 ULF1 (FD 06)



# STS-114 ULF1 (FD 06)



# STS-114 ULF1 (FD 07 )

GMT Date 01/22	T D R S E W	D O R B	MET Day 005	S I T S S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
					<p><u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u></p> <p><u>SALIVA COLLECTION (ORB OPS, DSO)</u></p> <p><b>FD07</b></p> <p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>06 UHF MODE - OFF A/G PRIVATE MEDICAL CONFERENCE</p> <p>STS LEH CONFIG FOR EVA P/B ON ISS (ISS EVA SYS, 10.2 PSIA OPS)</p> <p>EVA PREP USING SHUTTLE 02 (ISS EVA SYS, EVA PREP)</p>	<p><u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u></p> <p><u>SALIVA COLLECTION (ORB OPS, DSO)</u></p> <p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p>	<p>POST SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>GALLEY MORNING CONFIG (ORB OPS, ECLS)</p> <p>EMU BATT RCHRG FROM PSA UTILITY (ISS EVA SYS, BATT OPS) (Term)</p> <p>EVA PREP USING SHUTTLE 02 (ISS EVA SYS, EVA PREP)</p>	<p>POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)</p> <p>EMU BATT RCHRG FROM PSA UTILITY (ISS EVA SYS, BATT OPS) (Term)</p> <p>EVA PREP USING SHUTTLE 02 (ISS EVA SYS, EVA PREP)</p>	
						<p><b>FD07 EZ ACTIVITIES</b></p> <p>OCAC FILTER INSPECT</p> <p>TEPC (POWER UP)</p> <p>(ORB OPS, CREW SYS) STEP 6</p>			TFL 184
						<p>EVA 2 INHIBIT PAD (EVA, TIMELINES)</p> <p>SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #7 Report barcode &amp; S/N to MCC MCC:CWC Samples &amp; Additives</p>			
						<p>EXERCISE</p>			
						<p>SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Photo bag w/35mm cam</p> <p>P/TV23 EVA (SETUP) (PHOTO/TV, SCENES)</p>			
					<p>EMU PURGE (ISS EVA SYS, EVA PREP)</p>	<p>EMU PURGE (ISS EVA SYS, EVA PREP)</p>	<p>EMU PURGE (ISS EVA SYS, EVA PREP)</p>		

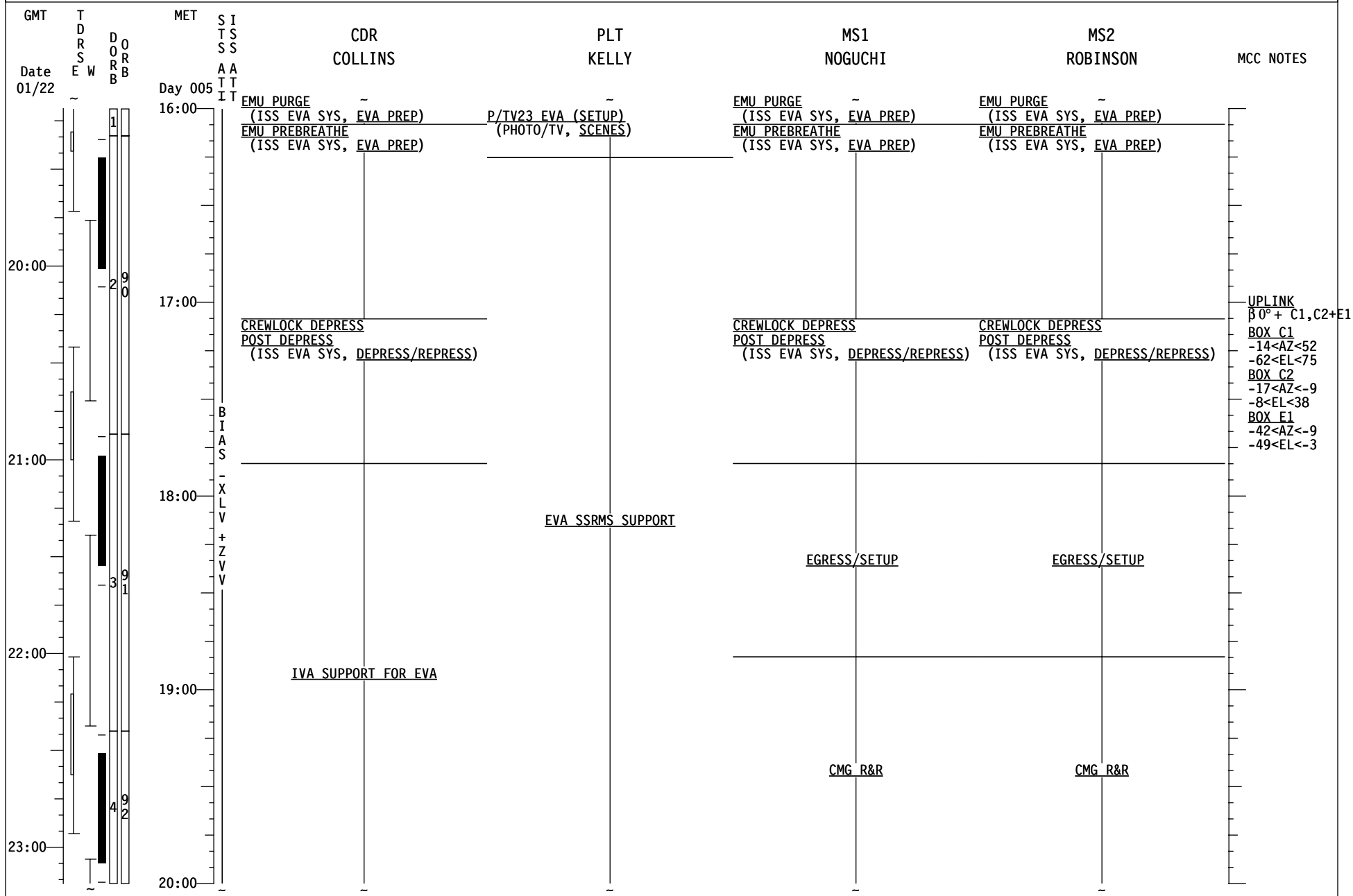


# STS-114 ULF1 (FD 07)

GMT	TDRSEW	DORBB	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/22			Day 005					
			12:00					
				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
16:00				STS LEH CONFIG FOR EVA P/B ON ISS (ISS EVA SYS, 10.2 PSIA OPS)				
			13:00	EVA PREP USING SHUTTLE O2 (ISS EVA SYS, EVA PREP)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
17:00								
			14:00		DAILY PLAN CONF	DAILY PLAN CONF		
					PREP WORK	PREP WORK		
18:00					LAB PAYLOAD STATUS CHECK	TRANSFER REVIEW Update MASTER Xfer list		
			15:00		TRANSFER Ref. MPLM TRANSFER LIST			
19:00						EXERCISE-TVIS		
			16:00	EMU PURGE (ISS EVA SYS, EVA PREP)				

**FD07**

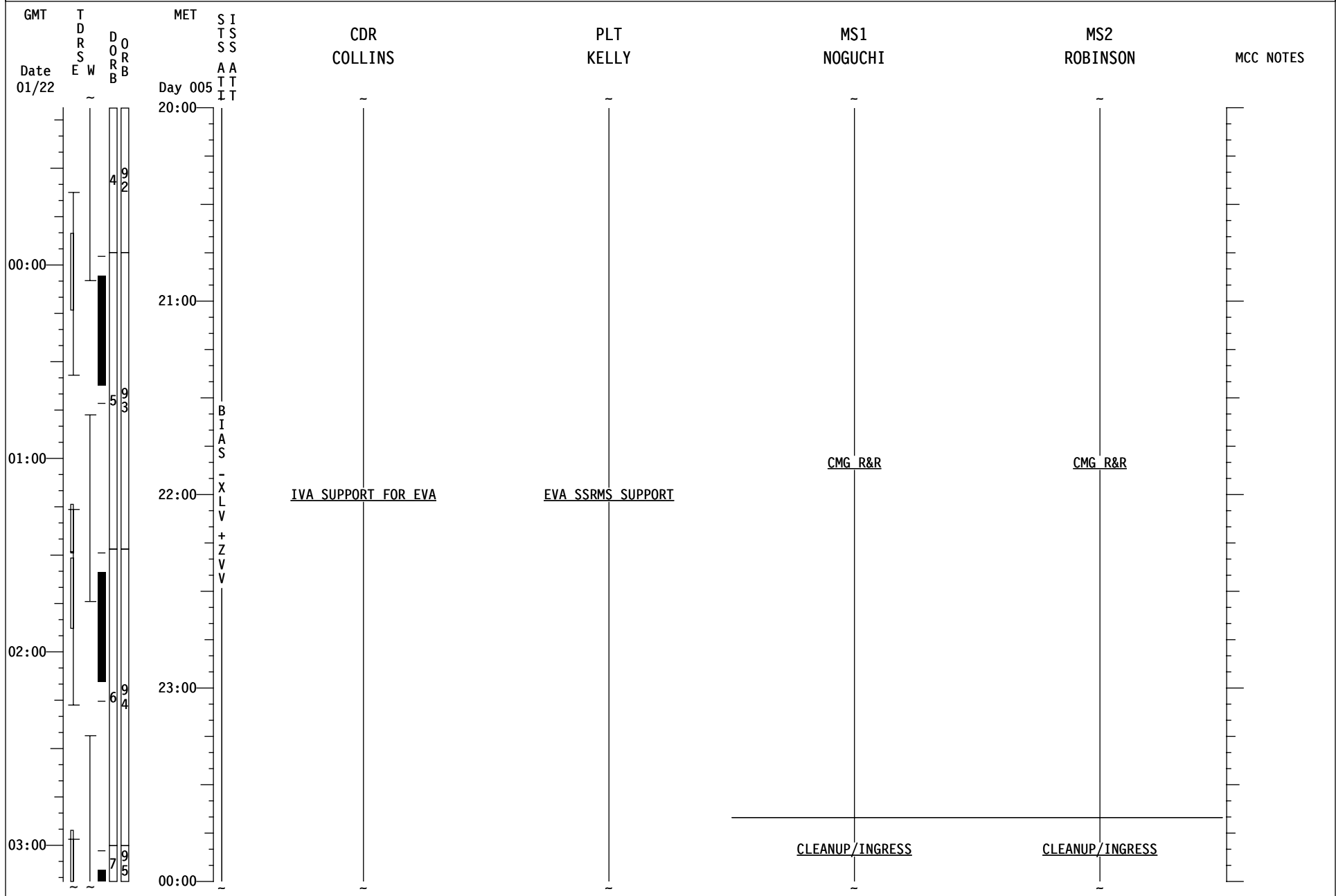
# STS-114 ULF1 (FD 07 )



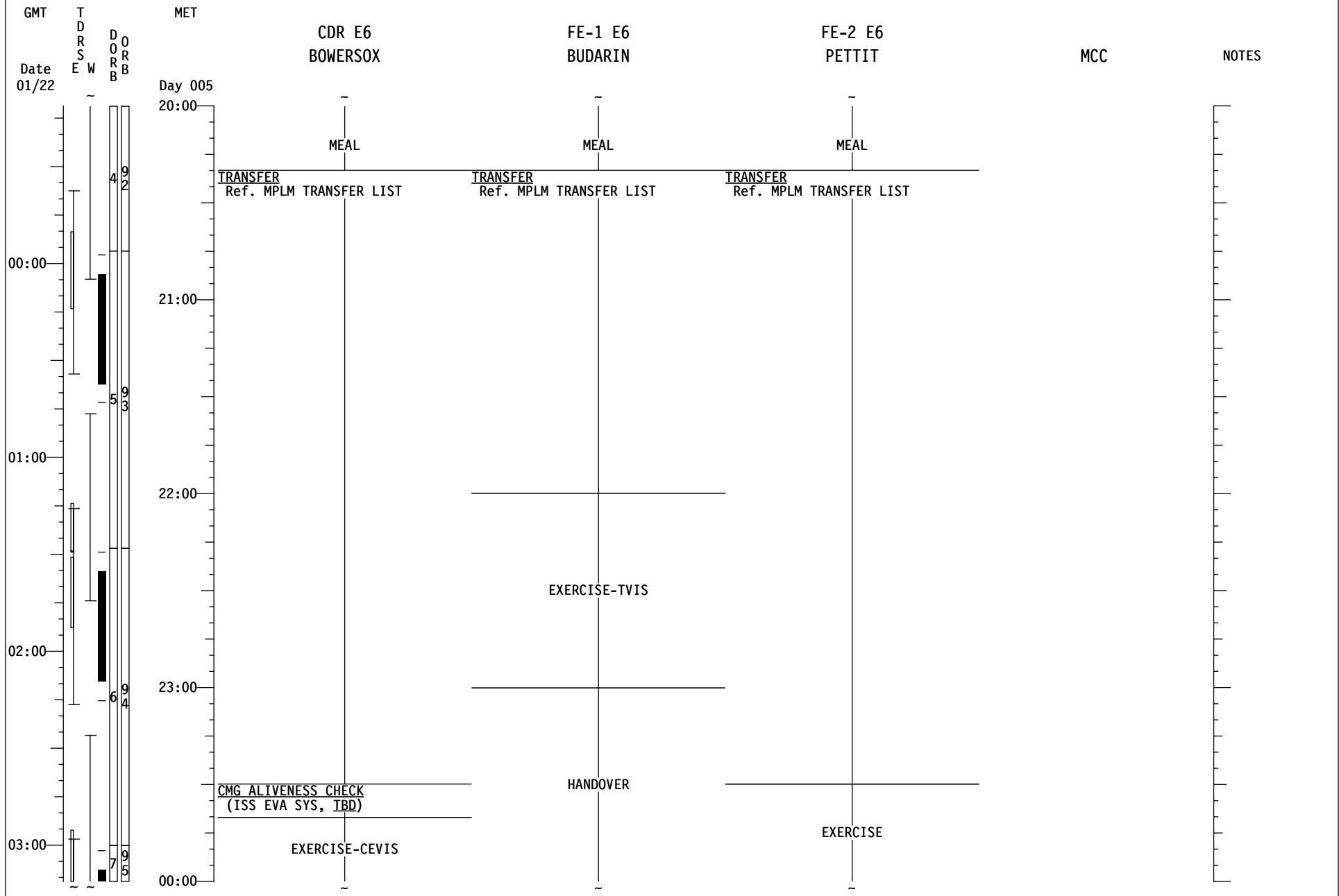
# STS-114 ULF1 (FD 07 )

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/22			Day 005					
		1	16:00	<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP)	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>EXERCISE-TVIS</u>		
		2		<u>EMU PREBREATHE</u> (ISS EVA SYS, EVA PREP)		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		
20:00		9			EXERCISE-TVIS			
		0	17:00	<u>CREWLOCK DEPRESS</u> <u>POST DEPRESS</u> (ISS EVA SYS, DEPRESS/REPRESS)	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST			
21:00		3						
		1	18:00	EXERCISE				
22:00		9						
		2	19:00					
23:00		4		MEAL	MEAL	MEAL		
		2	20:00					

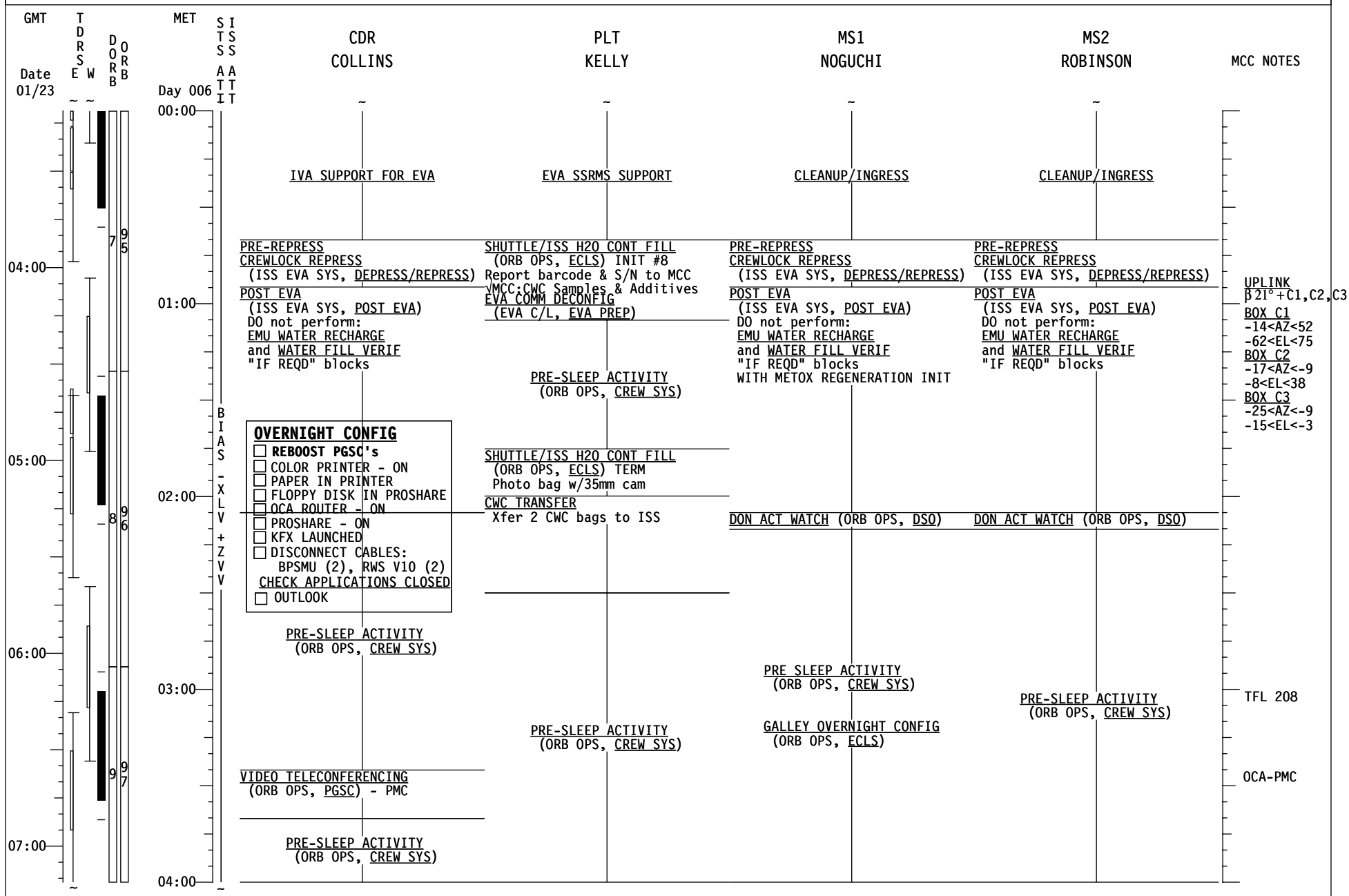
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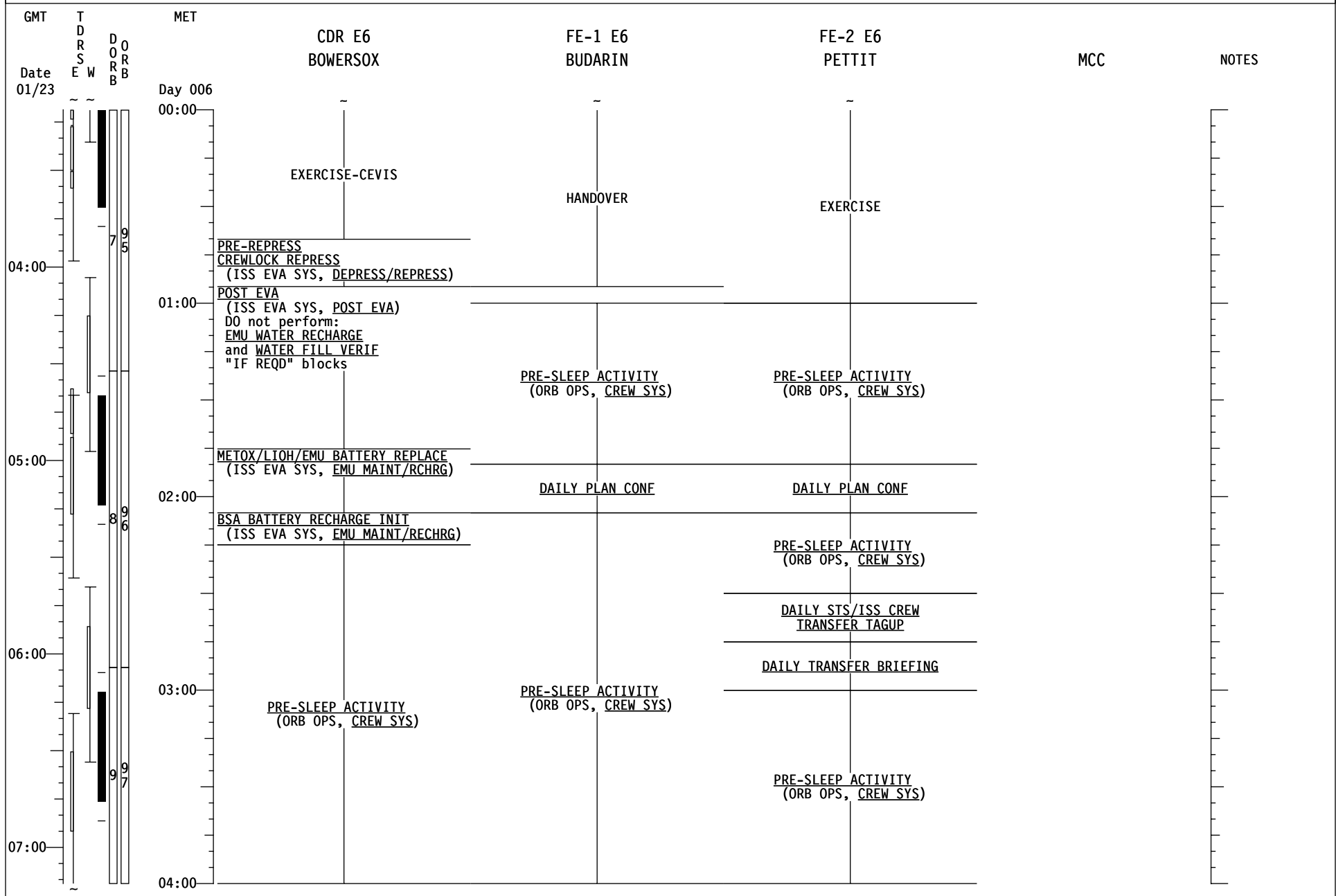
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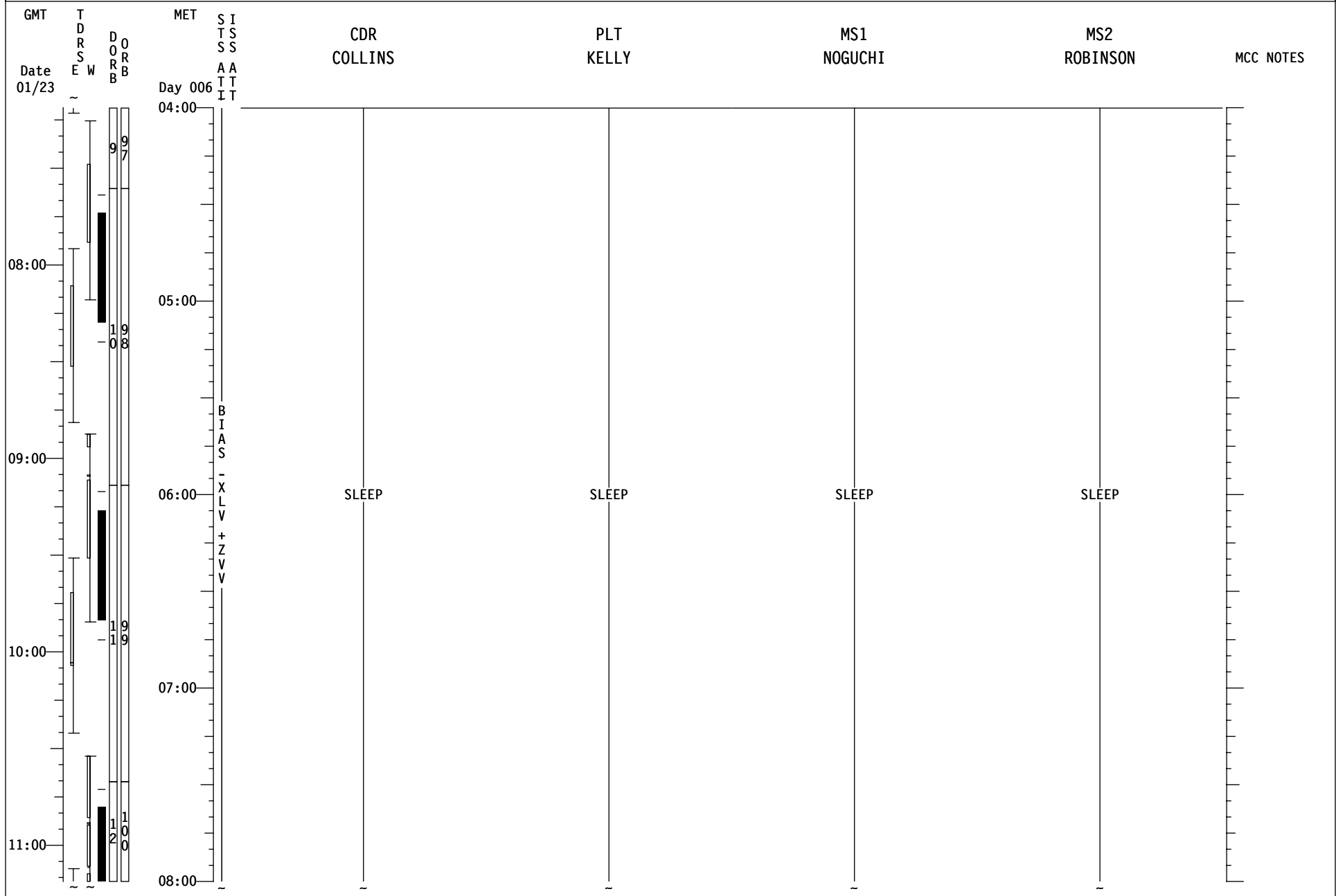
# STS-114 ULF1 (FD 07 )



# STS-114 ULF1 (FD 07 )



# STS-114 ULF1 (FD 07 )

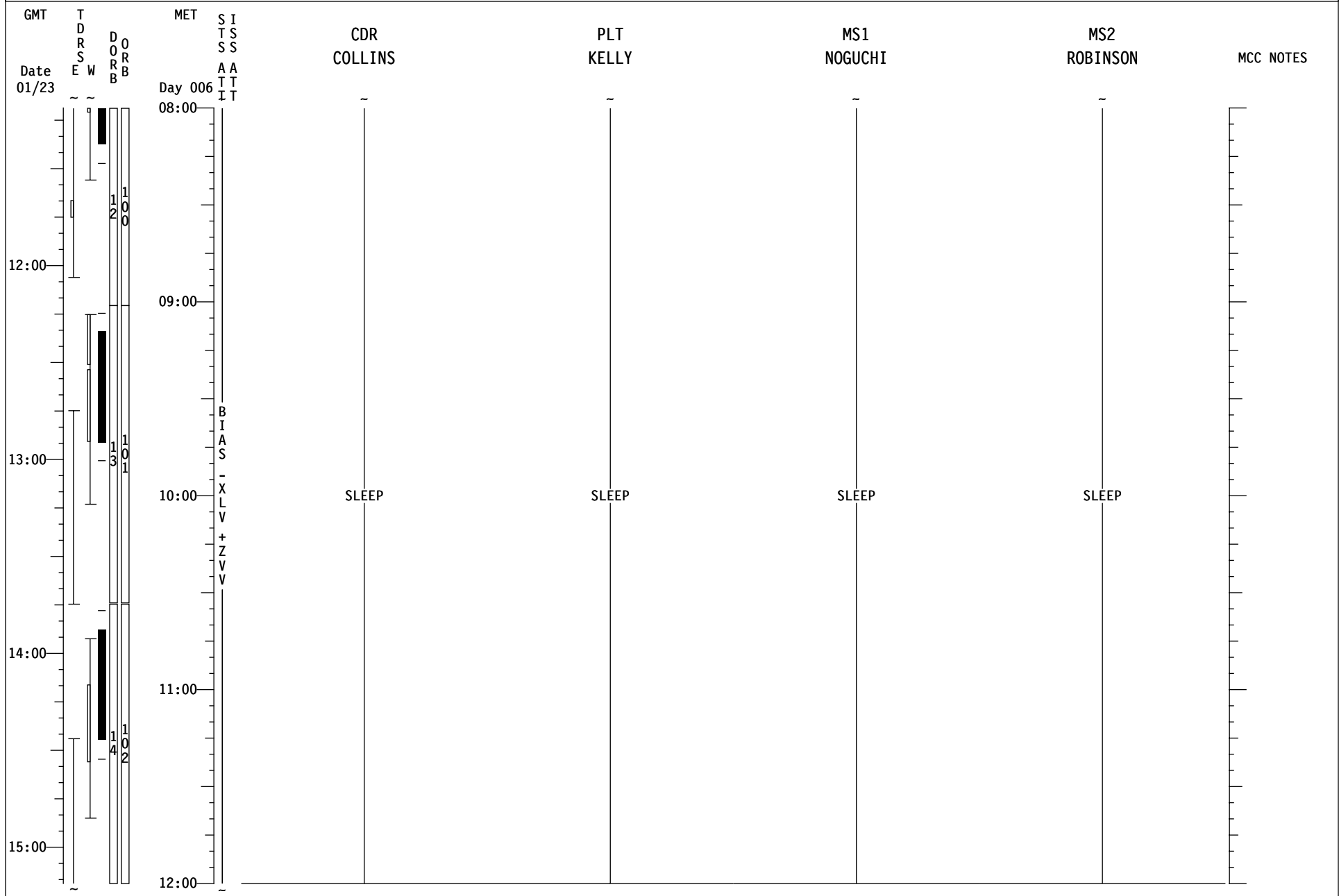




# STS-114 ULF1 (FD 07 )

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/23			Day 006					
04:00		997						
08:00		1908						
09:00				SLEEP	SLEEP	SLEEP		
10:00		1919						
11:00		1200						
08:00								

# STS-114 ULF1 (FD 07 )



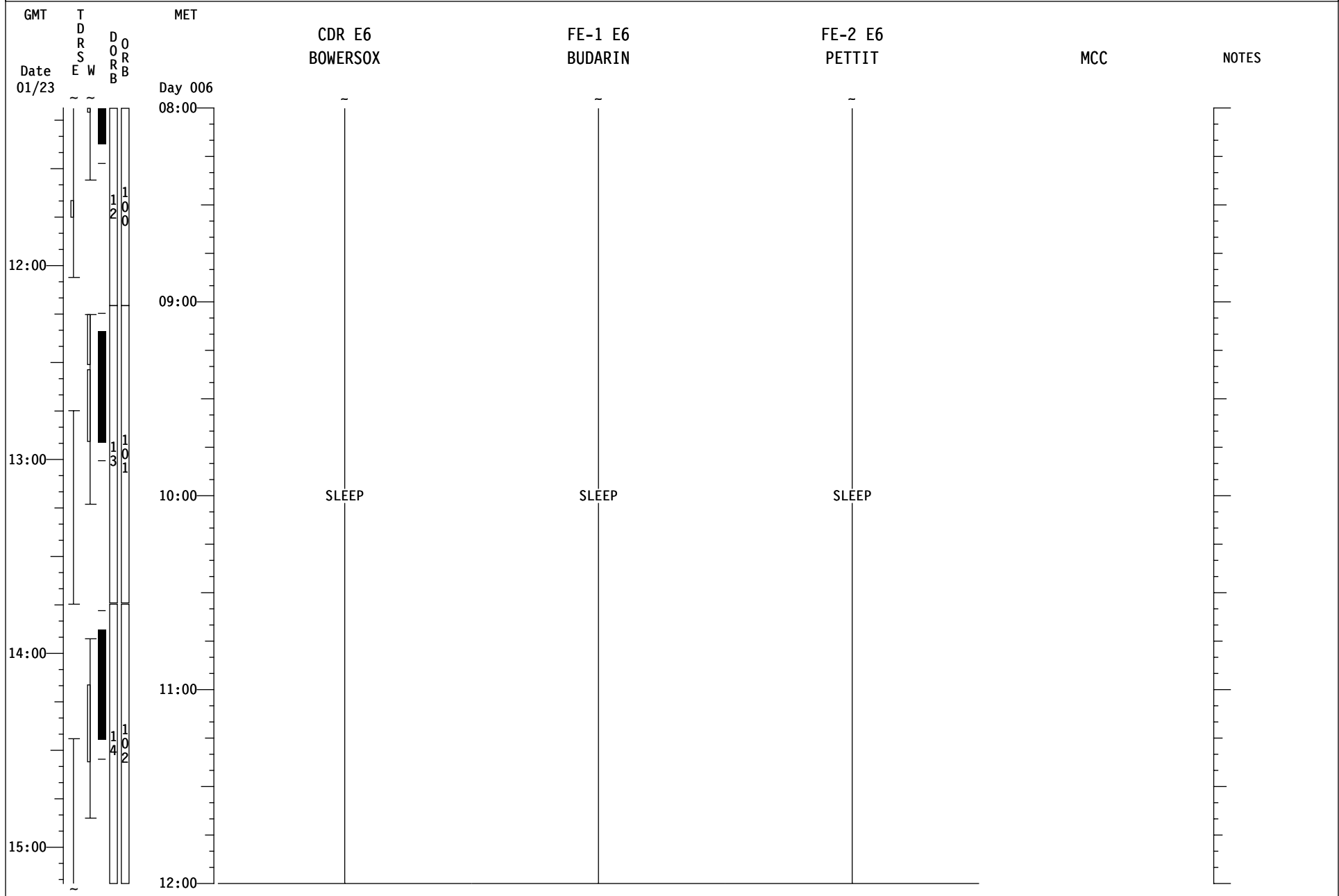
SLEEP

SLEEP

SLEEP

SLEEP

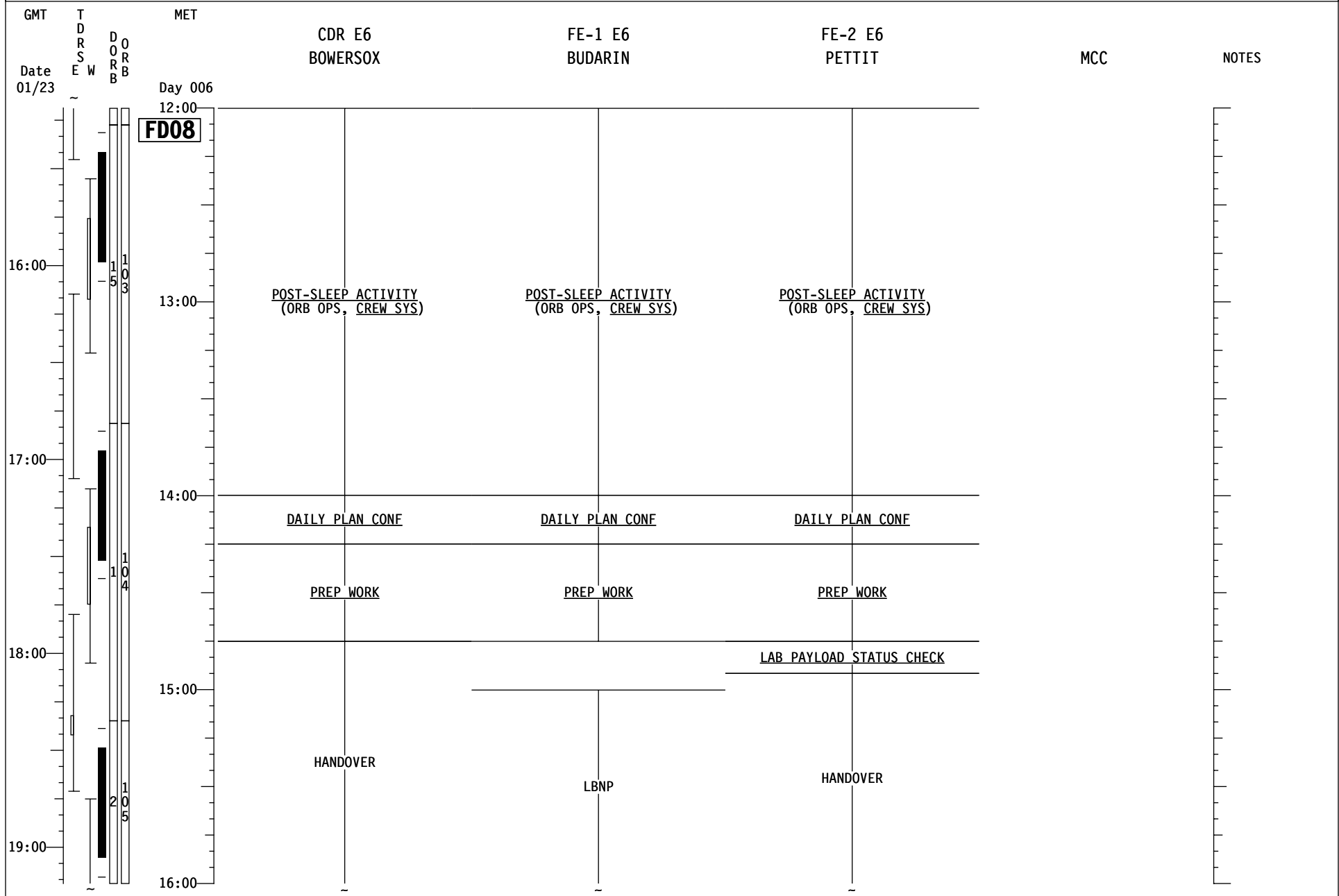
# STS-114 ULF1 (FD 07)



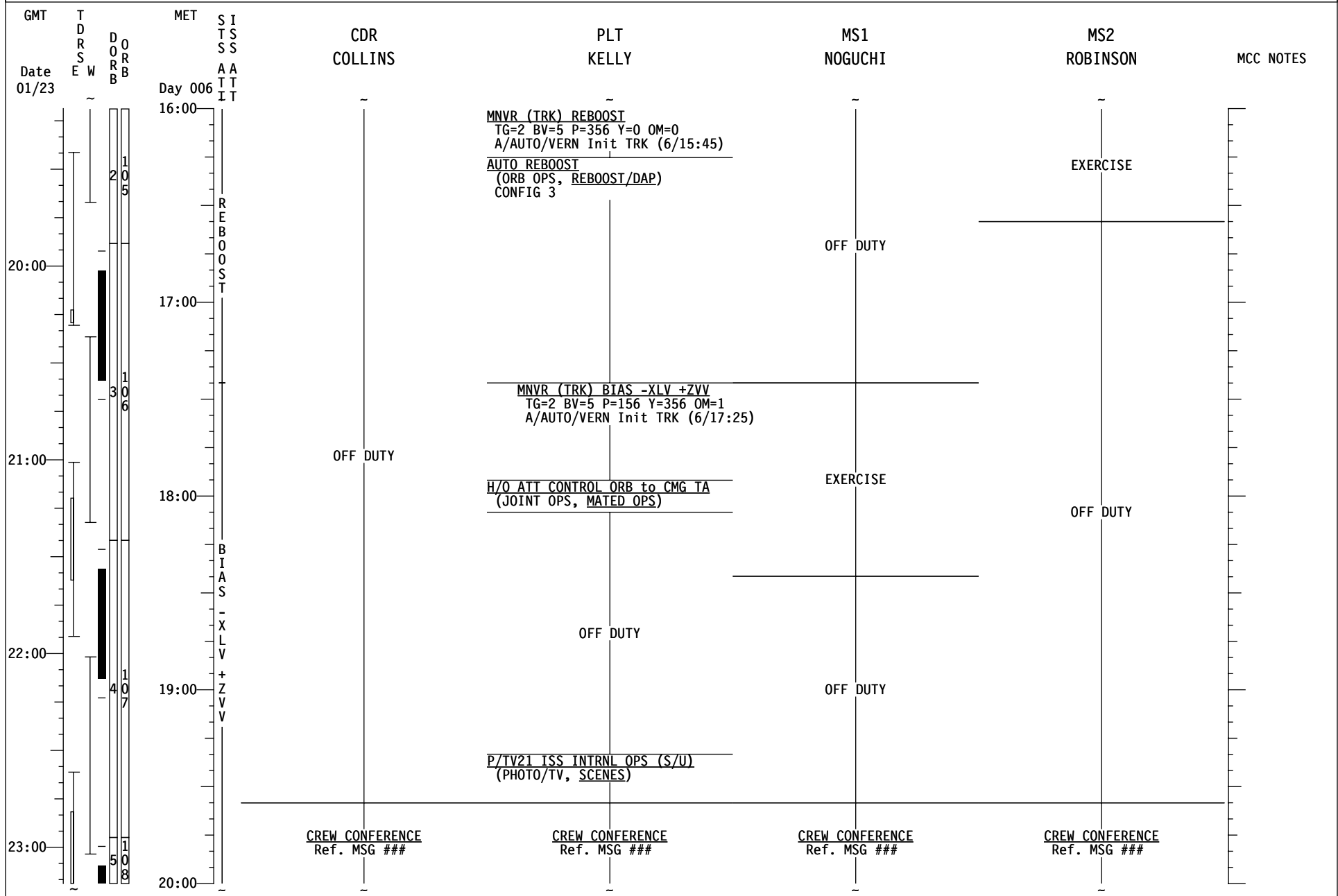
# STS-114 ULF1 (FD 08)

GMT	TDRSEW	DORB	MET	SI TS SS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/23			Day 006						
			12:00		<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>				
					<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>FD08 EZ ACTIVITIES</b>                      QCAC FILTER INSPECT                      TERC (POWER UP)                      (ORB OPS, CREW SYS) STEP 6                 </div>				
16:00					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)  GALLEY MORNING CONFIG (ORB OPS, ECLS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	TFL 184
17:00									
18:00					EXERCISE	TRANSFER REVIEW Update MASTER Xfer list	TAKE 1 ASPIRIN (325mg) METOX REGENERATION TERM (ISS EVA SYS, EMU MAINT/RCHRG) EMU WATER RCHRG (ISS EVA SYS, EMU MAINT/RCHRG) EMU POWERDOWN (ISS EVA SYS, EMU MAINT/RCHRG)	TAKE 1 ASPIRIN (325mg) BSA BATTERY RECHARGE TERM (ISS EVA SYS, EMU MAINT/RCHRG) EMU WATER RCHRG (ISS EVA SYS, EMU MAINT/RCHRG) EMU POWERDOWN (ISS EVA SYS, EMU MAINT/RCHRG)	
19:00					OFF DUTY	H/O ATT CONTROL CMG TA to ORB (JOINT OPS, MATED OPS) MNVN (TRK) REBOOST TG=2 BV=5 P=356 Y=0 OM=0 A/AUTO/VERN Init TRK (6/15:45)	EMU BATT RCHRG FROM PSA UTILITY (Init) (ISS EVA SYS, BATT OPS)  OFF DUTY	EXERCISE	
16:00									

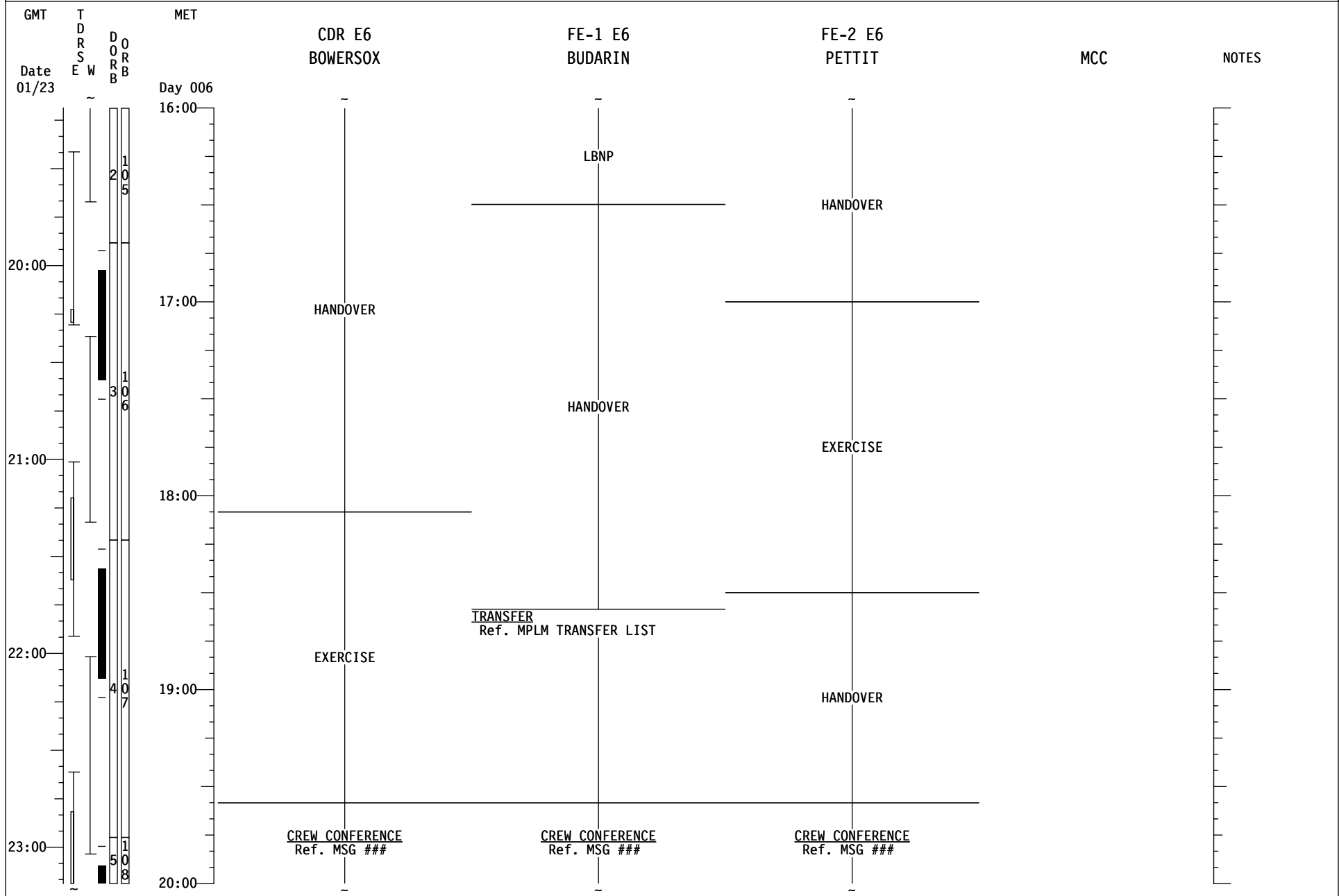
# STS-114 ULF1 (FD 08)



# STS-114 ULF1 (FD 08)



# STS-114 ULF1 (FD 08)



# STS-114 ULF1 (FD 08)

GMT Date 01/23	TDRS E W	DORB A B	MET Day 006	S I T S S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
			20:00		CREW CONFERENCE Ref. MSG ### CREW PHOTO	CREW CONFERENCE Ref. MSG ### CREW PHOTO	CREW CONFERENCE Ref. MSG ### CREW PHOTO	CREW CONFERENCE Ref. MSG ### CREW PHOTO	
00:00		108 508		BIAS	MEAL	MEAL	MEAL	MEAL	
			21:00	XLV +ZVV	PUBLIC AFFAIRS EVENT (NASDA) KU AVAIL TDRS XX:XX-XX:XX REF MSG ###	FILTER CLEANING (IFM, SCHED MAINT) Inspect filters and clean as necessary	PUBLIC AFFAIRS EVENT REF MSG ###	PUBLIC AFFAIRS EVENT REF MSG ###	
01:00		609			EQUIPMENT LOCK PREP (ISS EVA SYS, EVA PREP)		EQUIPMENT LOCK PREP (ISS EVA SYS, EVA PREP)	EQUIPMENT LOCK PREP (ISS EVA SYS, EVA PREP)	
			22:00		EVA 3 TOOL CONFIG (EVA, TIMELINES)	H/O ATT CONTROL CMG TA to ORB (JOINT OPS, MATED OPS) MNVR (TRK) BIAS -XLV +YVV TG=2 BV=5 P=155 Y=0 OM=270 A/AUTO/VERN Init TRK (6/22:15)	EVA 3 TOOL CONFIG (EVA, TIMELINES)	EVA 3 TOOL CONFIG (EVA, TIMELINES)	
02:00			23:00	SUPPLY DUMP		SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply Dump			UPDATE H2O SPLY DUMP QTY TK A & B
03:00		710				EXERCISE			
			00:00						



# STS-114 ULF1 (FD 08)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/23			Day 006					
20:00				CREW CONFERENCE <small>Ref. MSG ###</small> CREW PHOTO	CREW CONFERENCE <small>Ref. MSG ###</small> CREW PHOTO	CREW CONFERENCE <small>Ref. MSG ###</small> CREW PHOTO		
00:00		108 508		MEAL	MEAL	MEAL		
01:00		109 609						
02:00				HANDOVER	HANDOVER	HANDOVER		
03:00		110 710						
00:00							FTHR ARRAYS	
						EXERCISE-TVIS		

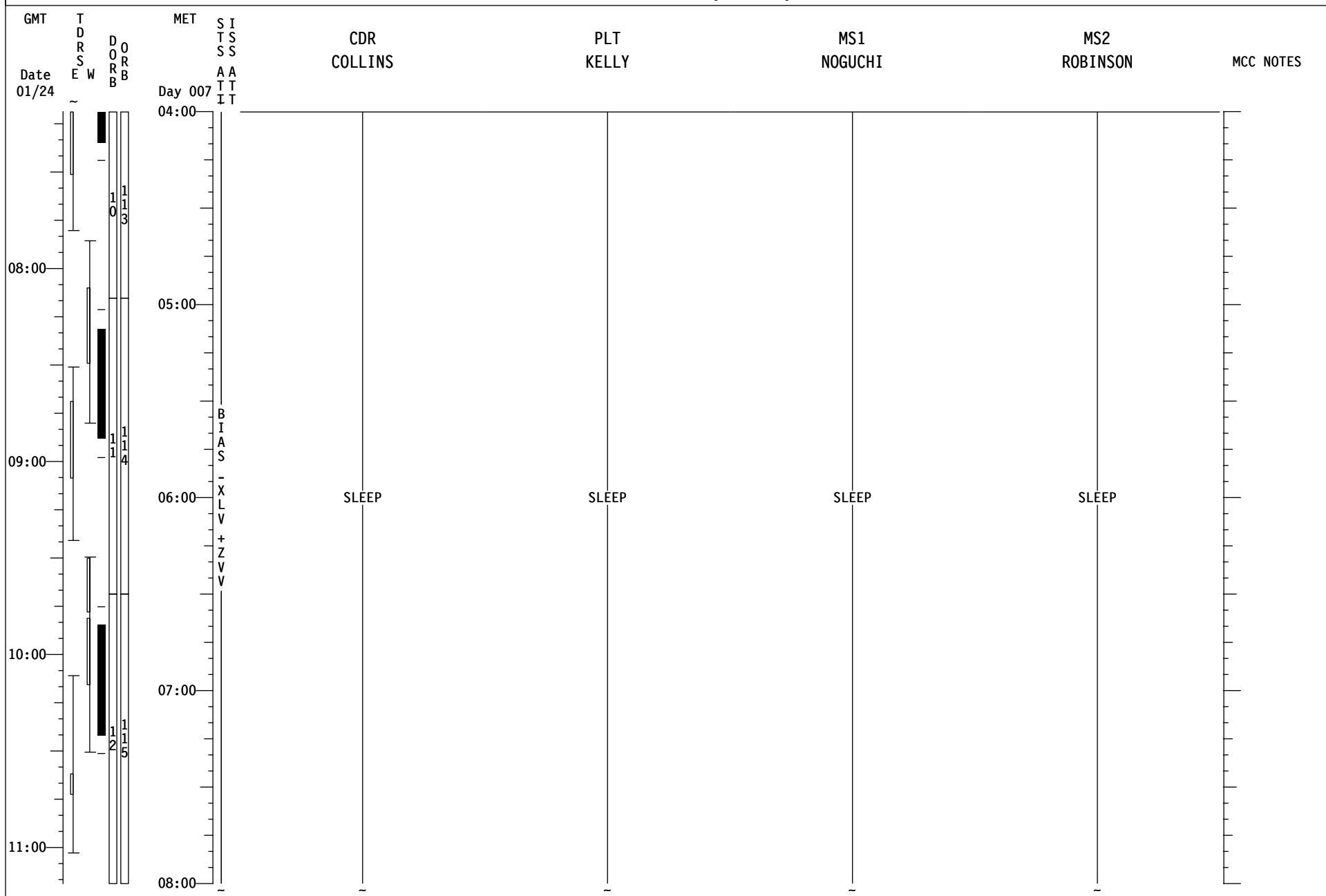
# STS-114 ULF1 (FD 08)

GMT Date 01/24	TDRSEW	DORB	MET Day 007	SISS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
00:00		110				EXERCISE			
04:00		710			EVA 3 BRIEFING CARD (EVA, TIMELINES)	SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump MNVR (TRK) BIAS -XLV +ZVV TG=2 BV=5 P=156 Y=356 OM=1 A/AUTO/VERN Init TRK (7/00:35) IMU STAR OF OPPTY ALIGN (ORB OPS) H/O ATT CONTROL ORB to CMG TA (JOINT OPS, MATED OPS)	EVA 3 BRIEFING CARD (EVA, TIMELINES)	EVA 3 BRIEFING CARD (EVA, TIMELINES)	
01:00		811			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	
05:00		912			VIDEO TELECONFERENCING (ORB OPS, PGSC) - PMC	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	<b>OVERNIGHT CONFIG</b> <input type="checkbox"/> REBOOST PGSC's <input type="checkbox"/> COLOR PRINTER - ON <input type="checkbox"/> PAPER IN PRINTER <input type="checkbox"/> FLOPPY DISK IN PROSHARE <input type="checkbox"/> OCA ROUTER - ON <input type="checkbox"/> PROSHARE - ON <input type="checkbox"/> KFX LAUNCHED <input type="checkbox"/> DISCONNECT CABLES: BPSMU (2) <input type="checkbox"/> CHECK APPLICATIONS CLOSED <input type="checkbox"/> OUTLOOK		OCA-PMC
02:00							PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)		
06:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	DAILY STS/ISS CREW TRANSFER TAGUP	GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00						DAILY TRANSFER BRIEFING			
07:00		1013				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			
04:00									

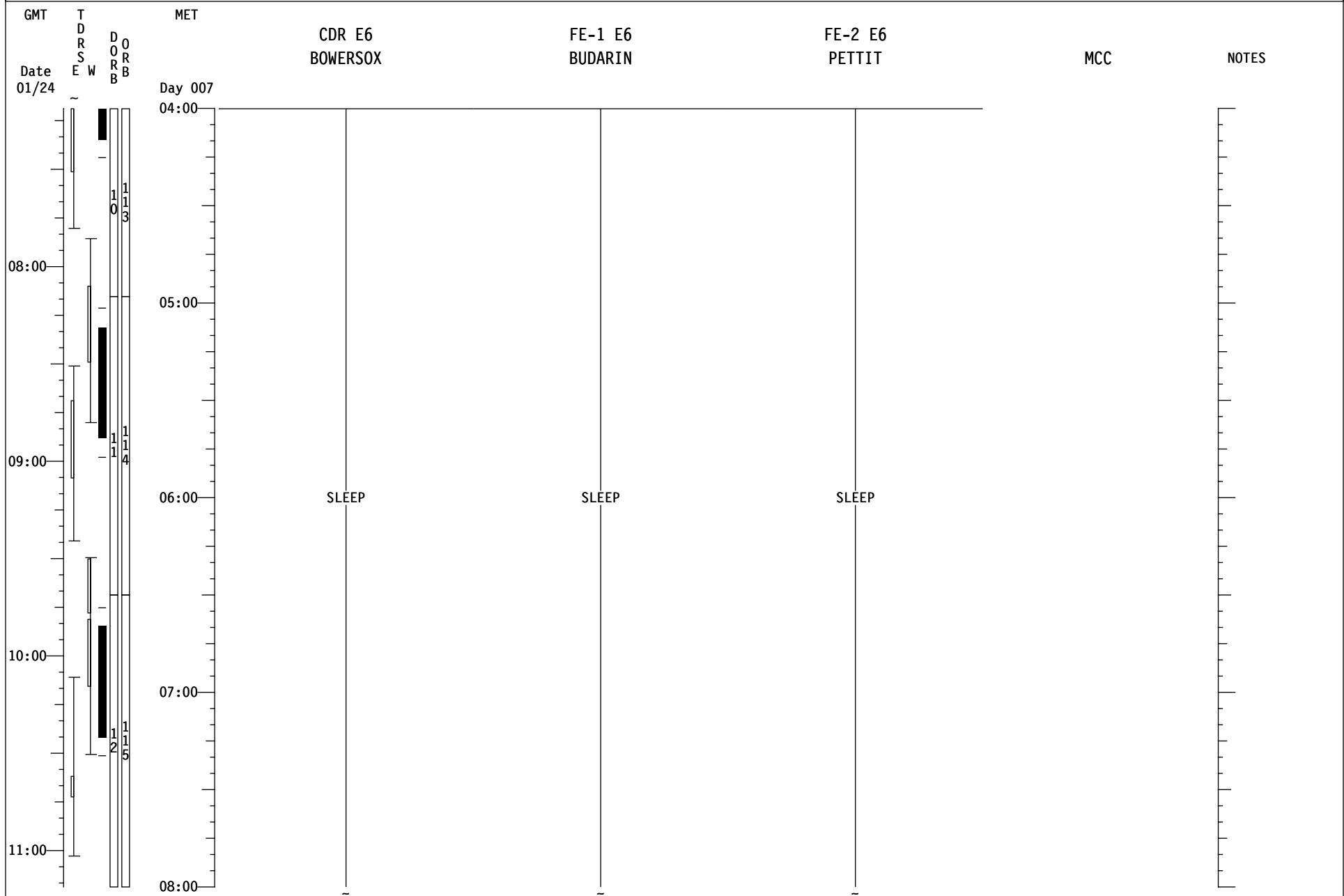
# STS-114 ULF1 (FD 08)

GMT Date 01/24	T D R S E W	D O R B	MET Day 007	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
			00:00	EXERCISE-TVIS	EXERCISE-CEVIS	EVA 3 BRIEFING CARD (EVA, TIMELINES)		
			01:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
			02:00	DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF		
			03:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
04:00			04:00					

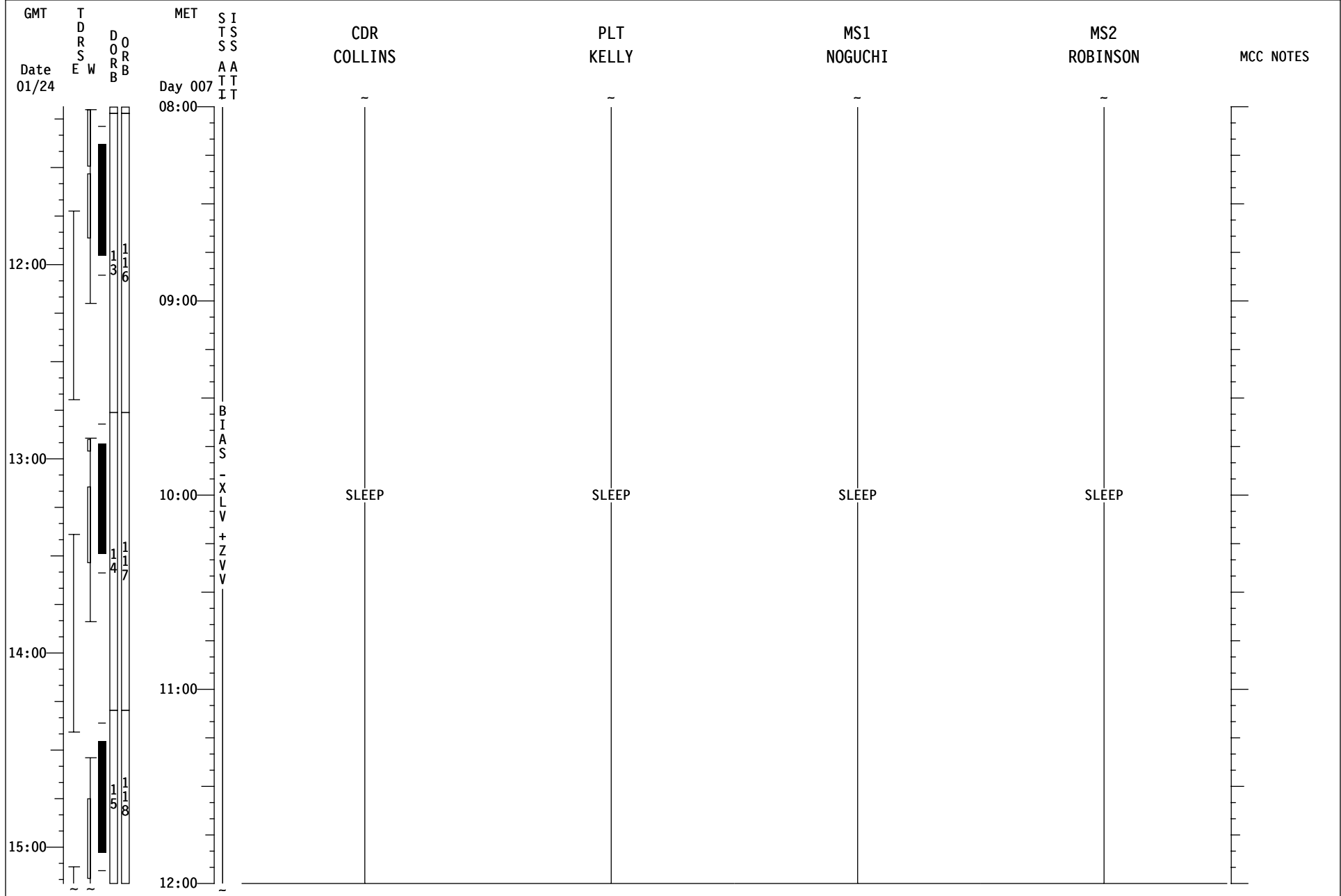
STS-114 ULF1 (FD 08)



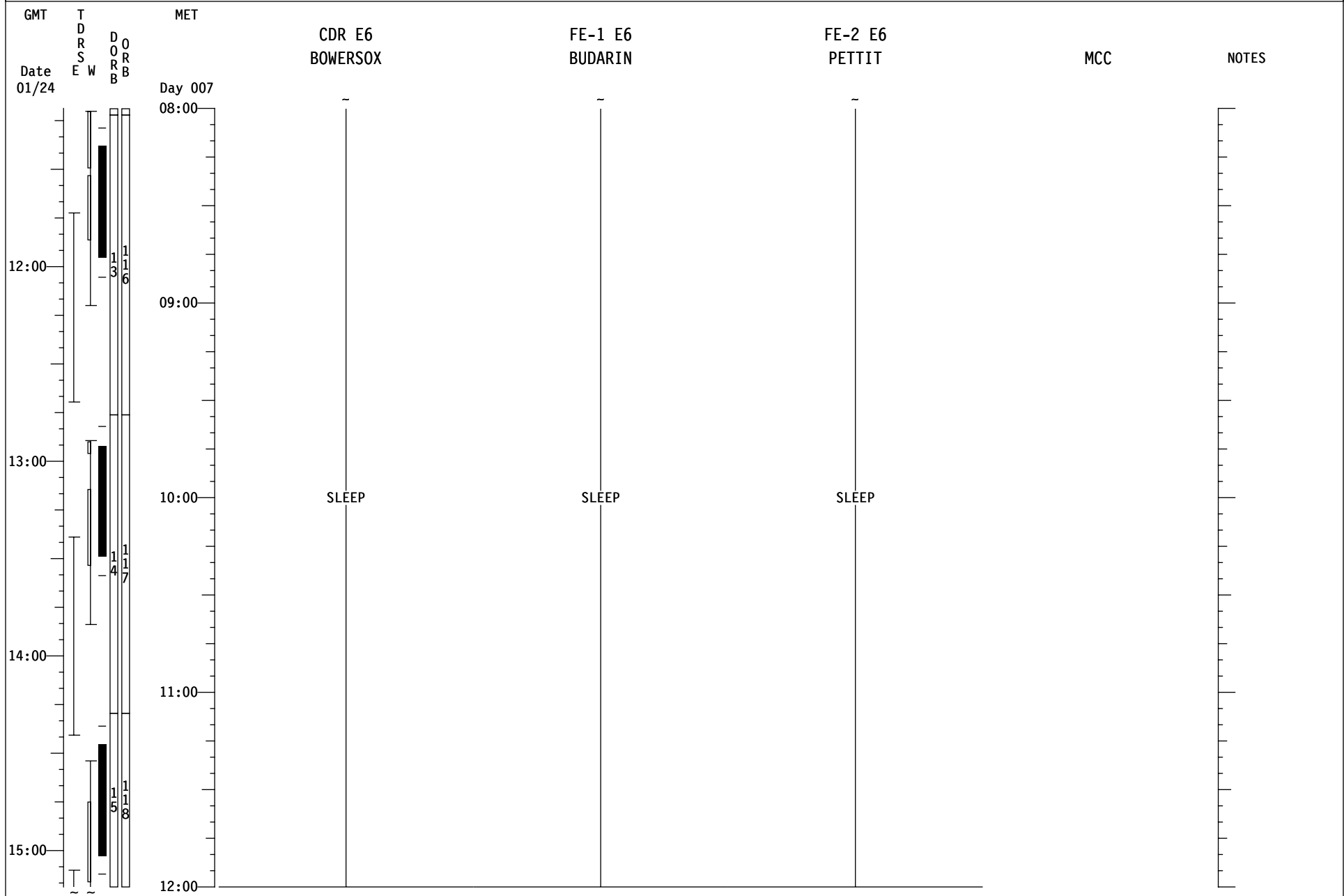
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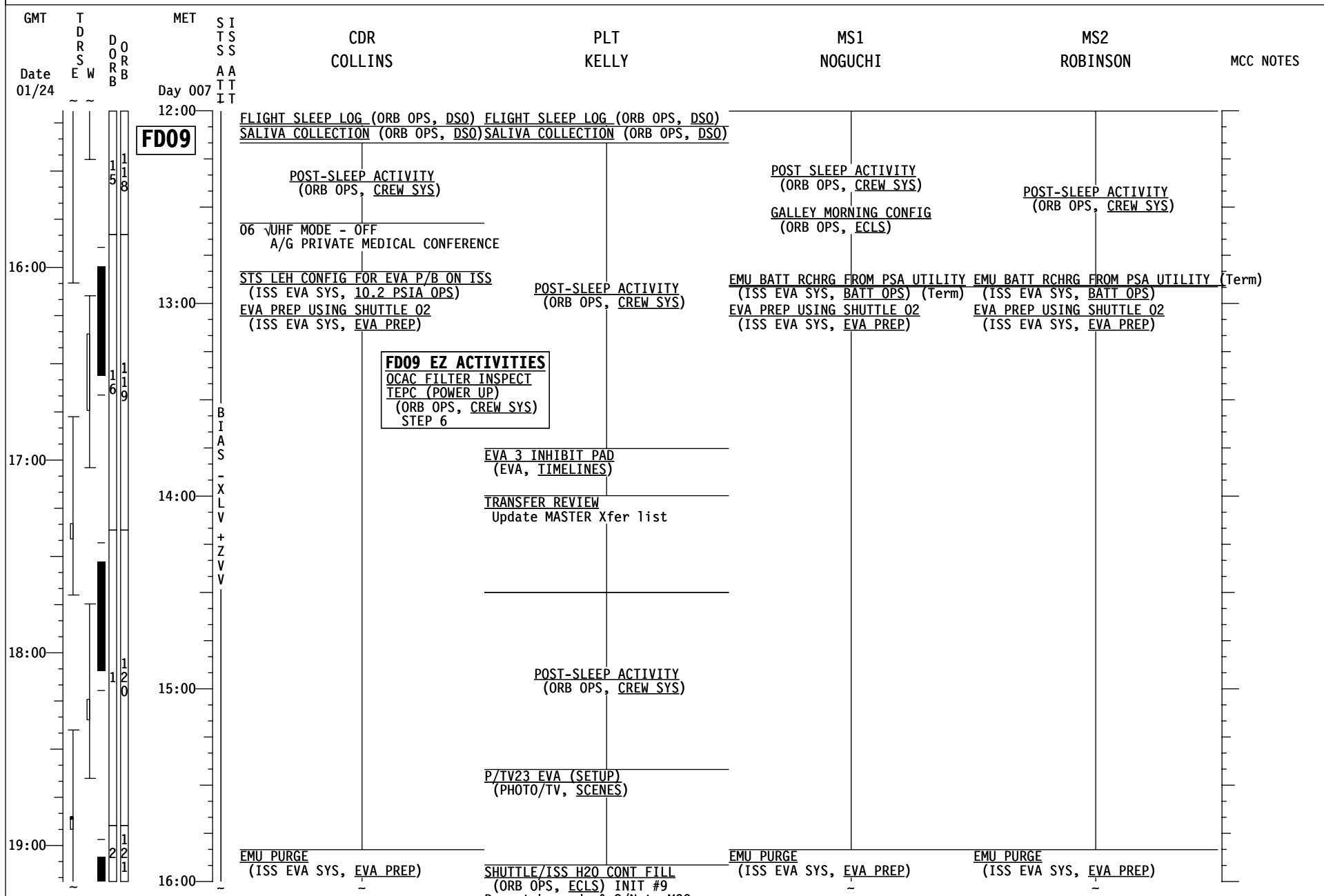
# STS-114 ULF1 (FD 08)



# STS-114 ULF1 (FD 08)



# STS-114 ULF1 (FD 09)





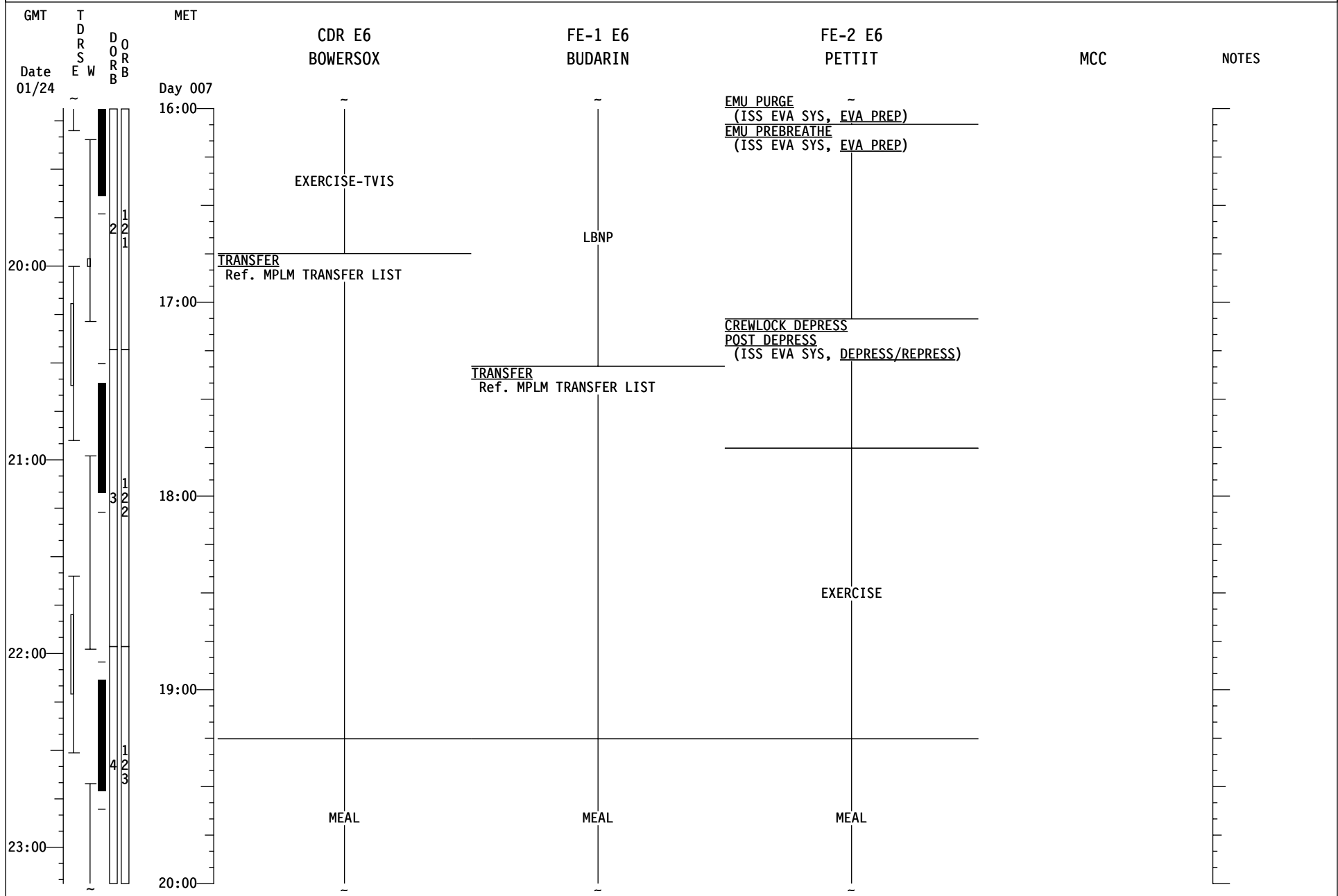
# STS-114 ULF1 (FD 09)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/24			Day 007					
			12:00 <b>FD09</b>			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
16:00		1158		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	STS LEH CONFIG FOR EVA P/B ON ISS (ISS EVA SYS, 10.2 PSIA OPS) EVA PREP USING SHUTTLE 02 (ISS EVA SYS, EVA PREP)		
		1119	13:00					
		1119		DAILY PLAN CONF	DAILY PLAN CONF			
17:00		1119		PREP WORK	PREP WORK			
		1200	14:00					
		1200		TRANSFER Ref. MPLM TRANSFER LIST	LAB PAYLOAD STATUS CHECK		MCC-M EVA1 INH COMPL	
18:00		1200	15:00		TRANSFER Ref. MPLM TRANSFER LIST			
		1200						
19:00		1200		EXERCISE-TVIS	LBNP	EMU PURGE (ISS EVA SYS, EVA PREP)		
		1200	16:00					

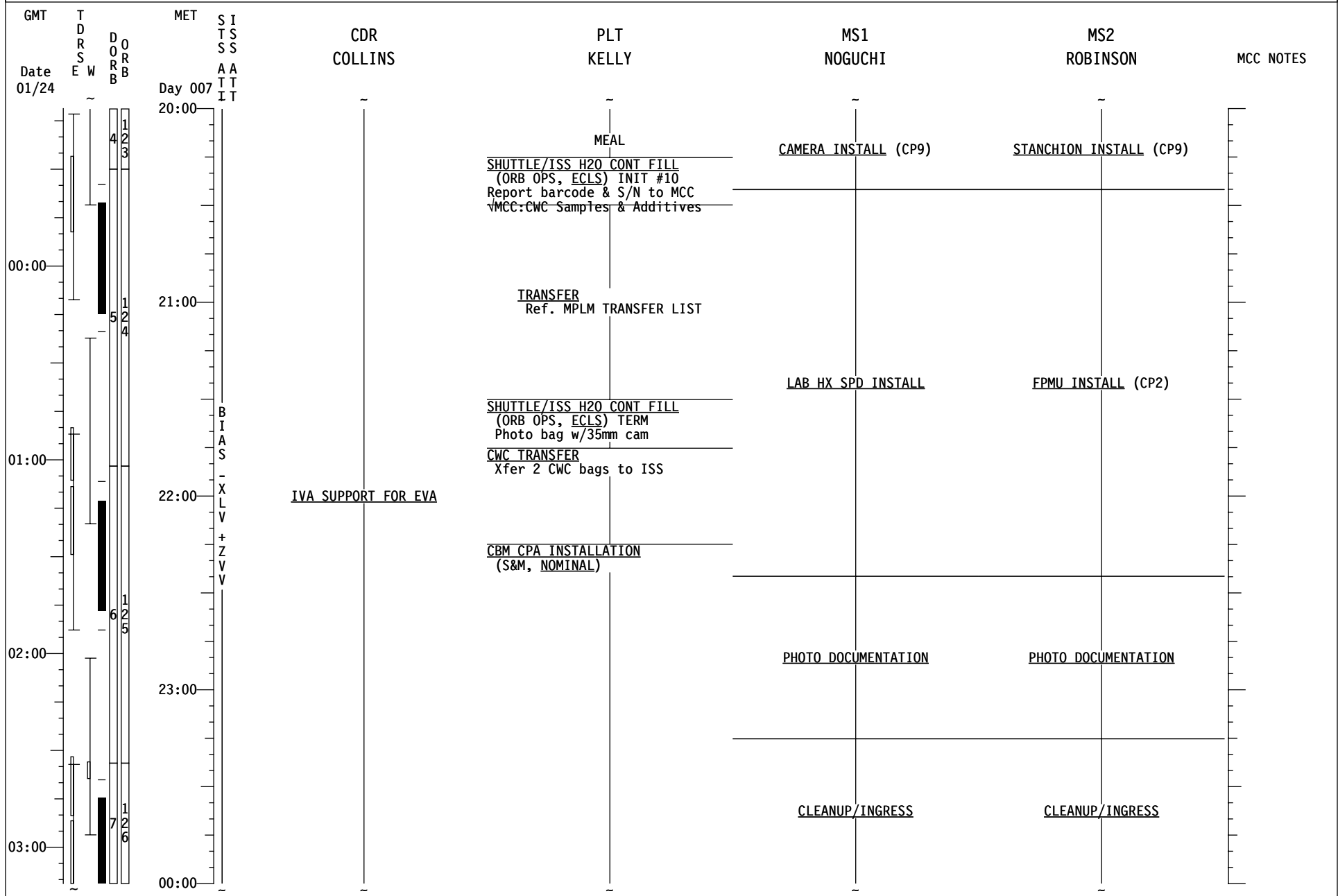
# STS-114 ULF1 (FD 09)

GMT	T D R S E W	D O R B	MET	S I T S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/24			Day 007						
16:00					<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP) <u>EMU PREBREATHE</u> (ISS EVA SYS, EVA PREP)	<u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, ECLS) INIT #9 Report barcode & S/N to MCC √MCC:CWC Samples & Additives	<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP) <u>EMU PREBREATHE</u> (ISS EVA SYS, EVA PREP)	<u>EMU PURGE</u> (ISS EVA SYS, EVA PREP) <u>EMU PREBREATHE</u> (ISS EVA SYS, EVA PREP)	
20:00						EXERCISE			
17:00					<u>CREWLOCK DEPRESS</u> <u>POST DEPRESS</u> (ISS EVA SYS, DEPRESS/REPRESS)	<u>SHUTTLE/ISS H2O CONT FILL</u> (ORB OPS, ECLS) TERM Photo bag w/35mm cam <u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>CREWLOCK DEPRESS</u> <u>POST DEPRESS</u> (ISS EVA SYS, DEPRESS/REPRESS)	<u>CREWLOCK DEPRESS</u> <u>POST DEPRESS</u> (ISS EVA SYS, DEPRESS/REPRESS)	<u>UPLINK</u> β0° + C1,C2+E1 BOX C1 -14<AZ<52 -62<EL<75 BOX C2 -17<AZ<-9 -8<EL<38 BOX E1 -42<AZ<-9 -49<EL<-3
21:00									
18:00							<u>EGRESS/SETUP</u>	<u>EGRESS/SETUP</u>	
22:00					<u>IVA SUPPORT FOR EVA</u>				
19:00							<u>CAMERA INSTALL (CP9)</u>	<u>STANCHION INSTALL (CP9)</u>	
23:00						MEAL			
20:00									

# STS-114 ULF1 (FD 09)



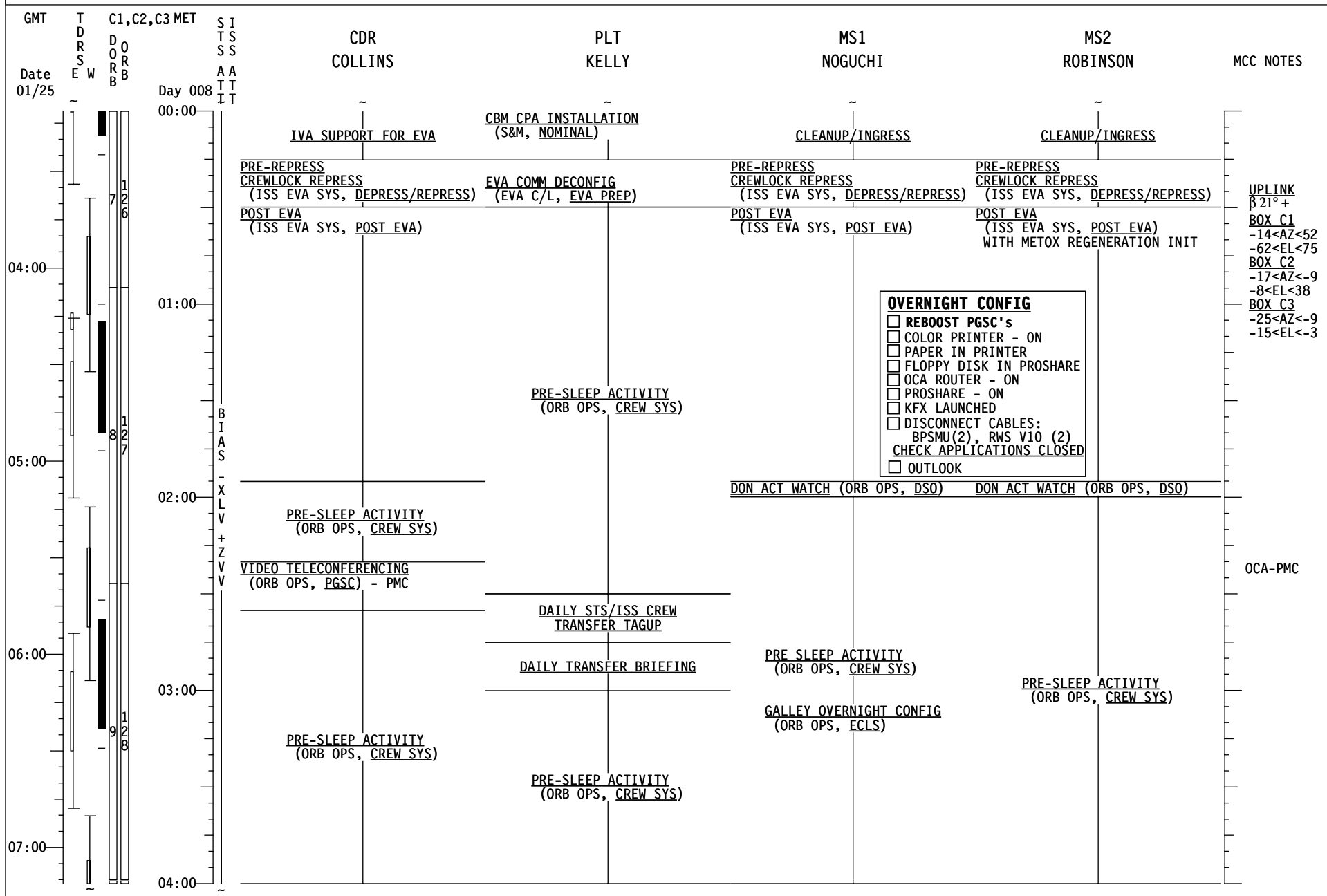
# STS-114 ULF1 (FD 09)



# STS-114 ULF1 (FD 09)

GMT Date 01/24	T D R S E W	D O R B	MET Day 007	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
			20:00	MEAL	MEAL	MEAL		
					HANDOVER			
			00:00		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	HANDOVER		
			21:00	HANDOVER		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		
			01:00	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST				
			22:00	<u>CBM CPA INSTALLATION</u> (S&M, NOMINAL)				
			02:00		EXERCISE-TVIS	EXERCISE-CEVIS		
			23:00			<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		
			03:00		HANDOVER			
			00:00					

# STS-114 ULF1 (FD 09)



**OVERNIGHT CONFIG**

- REBOOST PGSC's
- COLOR PRINTER - ON
- PAPER IN PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - ON
- KFX LAUNCHED
- DISCONNECT CABLES:  
BPSMU(2), RWS V10 (2)
- CHECK APPLICATIONS CLOSED
- OUTLOOK

# STS-114 ULF1 (FD 09)

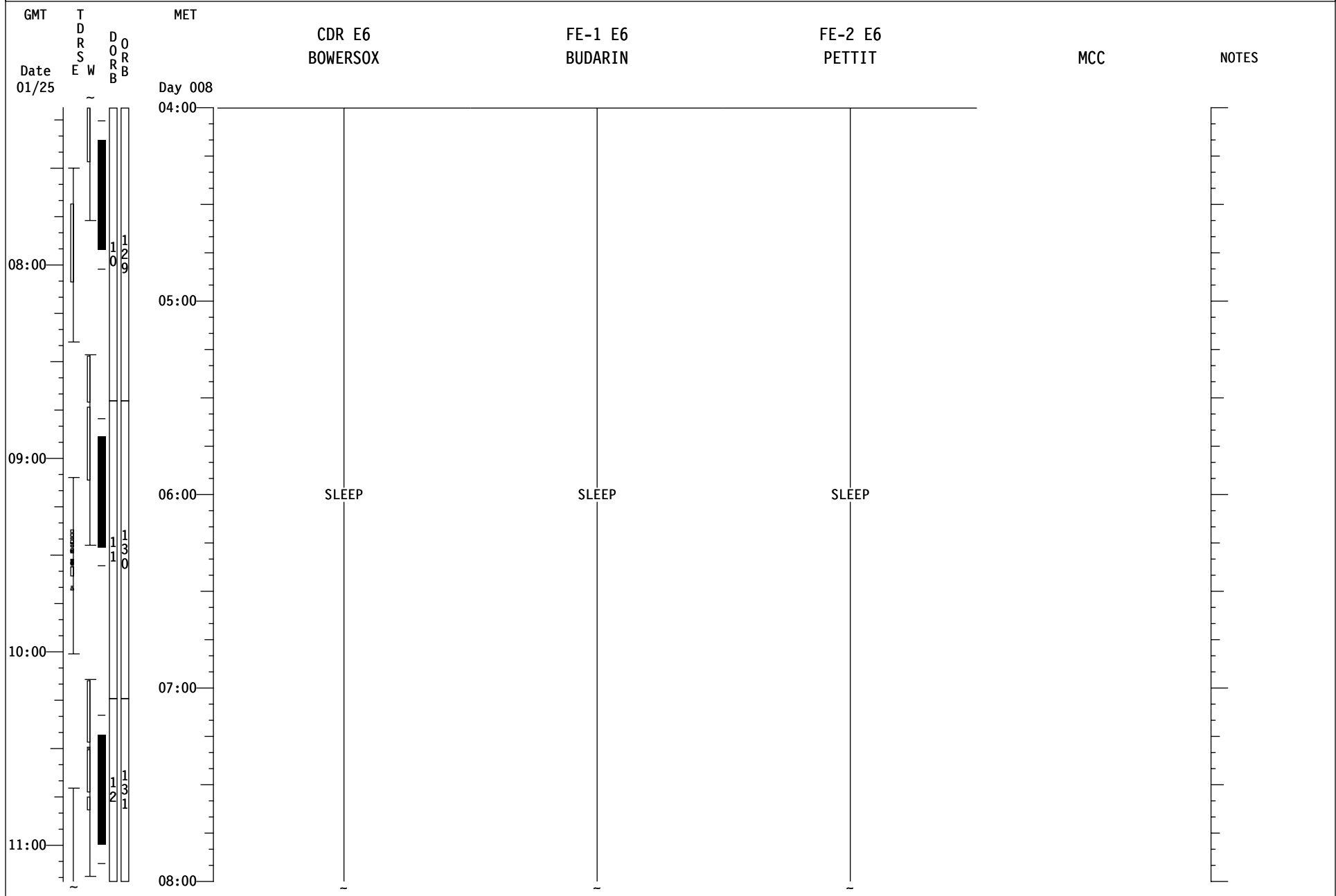
GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/25			Day 008					
00:00				<u>CBM CPA INSTALLATION</u> (S&M, <u>NOMINAL</u> )		<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		
					HANDOVER	<u>PRE-REPRESS</u> <u>CREWLOCK REPRESS</u> (ISS EVA SYS, <u>DEPRESS/REPRESS</u> )		
04:00						<u>POST EVA</u> (ISS EVA SYS, <u>POST EVA</u> )		
				EXERCISE				
					<u>TRANSFER</u> Ref. MDDK TRANSFER LIST			
05:00								
				<u>DAILY PLAN CONF</u>	<u>DAILY PLAN CONF</u>	<u>DAILY PLAN CONF</u>		
06:00								
				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, <u>CREW SYS</u> )		
07:00								
04:00								

# STS-114 ULF1 (FD 09)

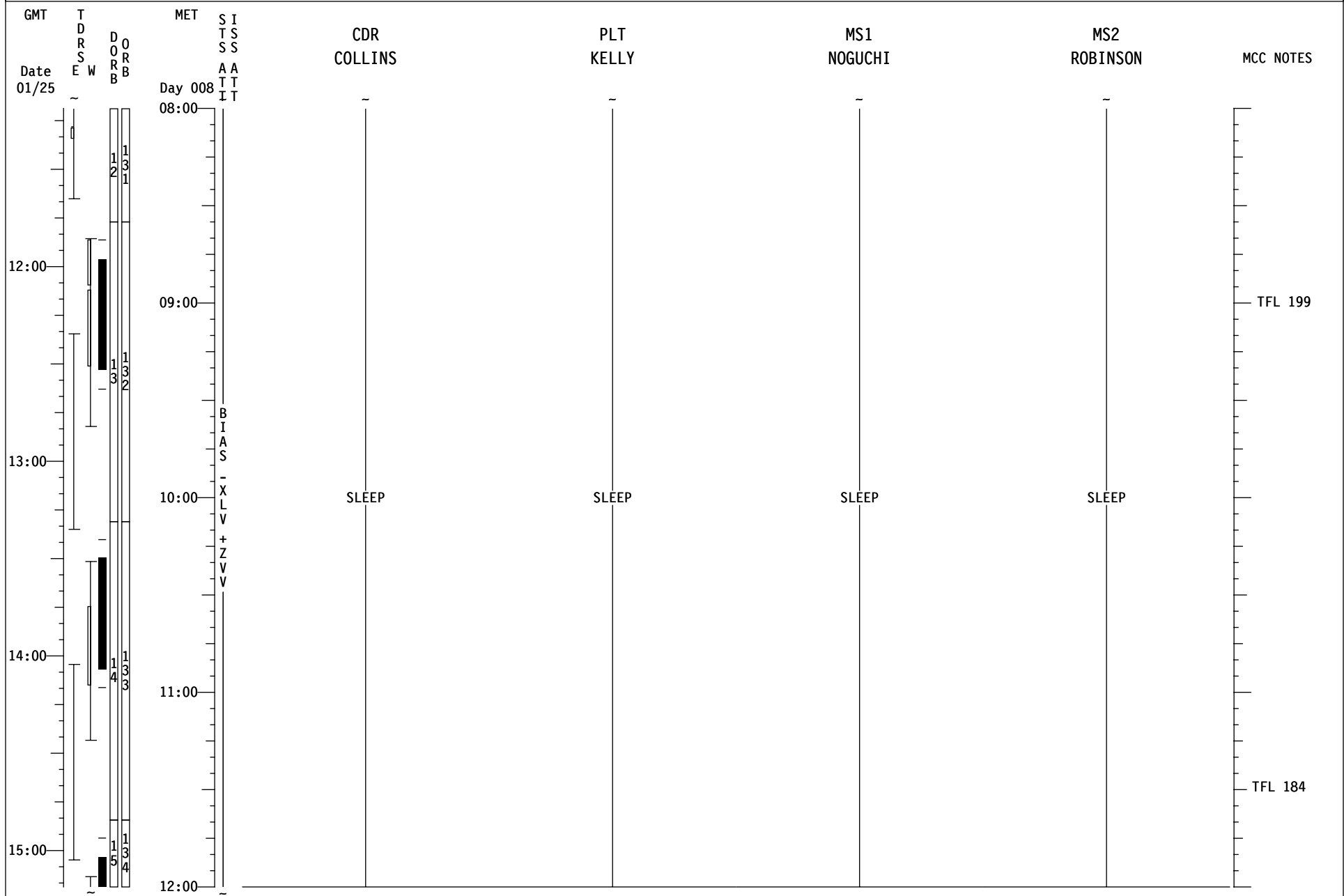
GMT Date 01/25	TDRSEW DORB	MET Day 008	SITS SSAA TTIT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">~</div> <div style="margin-bottom: 10px;">129</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">131</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">~</div> <div style="margin-bottom: 10px;">129</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">131</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">B</div> <div style="margin-bottom: 10px;">I</div> <div style="margin-bottom: 10px;">A</div> <div style="margin-bottom: 10px;">S</div> <div style="margin-bottom: 10px;">-X</div> <div style="margin-bottom: 10px;">L</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">+Z</div> <div style="margin-bottom: 10px;">V</div> <div style="margin-bottom: 10px;">V</div> </div>	SLEEP	SLEEP	SLEEP	SLEEP	



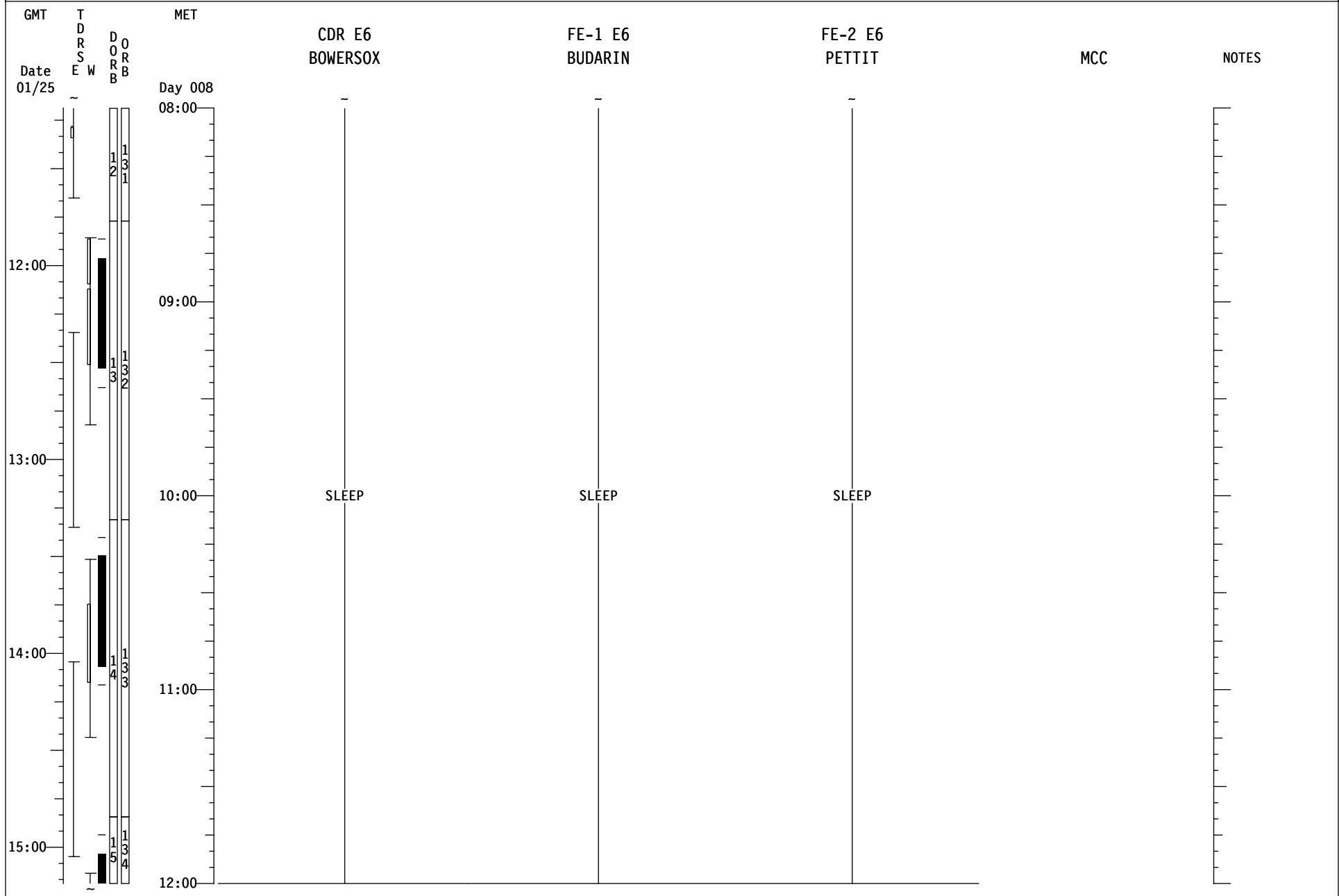
# STS-114 ULF1 (FD 09)



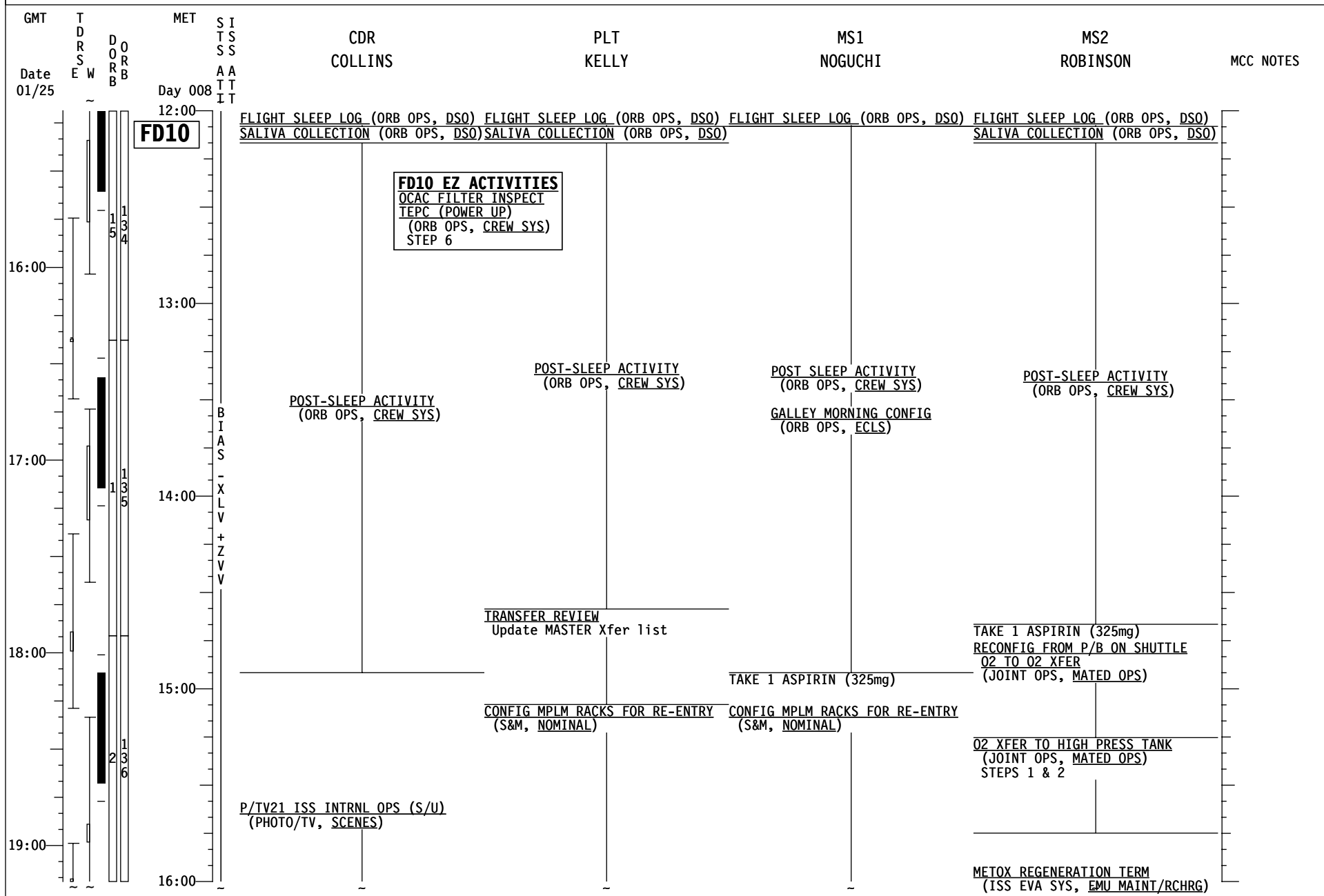
# STS-114 ULF1 (FD 09)



# STS-114 ULF1 (FD 09)



# STS-114 ULF1 (FD 10)



# STS-114 ULF1 (FD 10)

GMT	TDRSEW	DORB	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/25			Day 008					
			12:00					
			13:00	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
			14:00					
			15:00	DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF		
			16:00	RECONFIG FROM P/B ON SHUTTLE O2 TO O2 XFER (JOINT OPS, MATED OPS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
			17:00	O2 XFER TO HIGH PRESS TANK (JOINT OPS, MATED OPS) STEPS 1 & 2	LAB PAYLOAD STATUS CHECK	LAB CWC FILL		
			18:00	TRANSFER Ref. MDDK TRANSFER LIST		TRANSFER Ref. MDDK TRANSFER LIST		
			19:00	MPLM TRANSFER CLEANUP Ref. MPLM RETURN XFER LIST				
			20:00				MCC-M EVA2 INH COMPL	

FD10

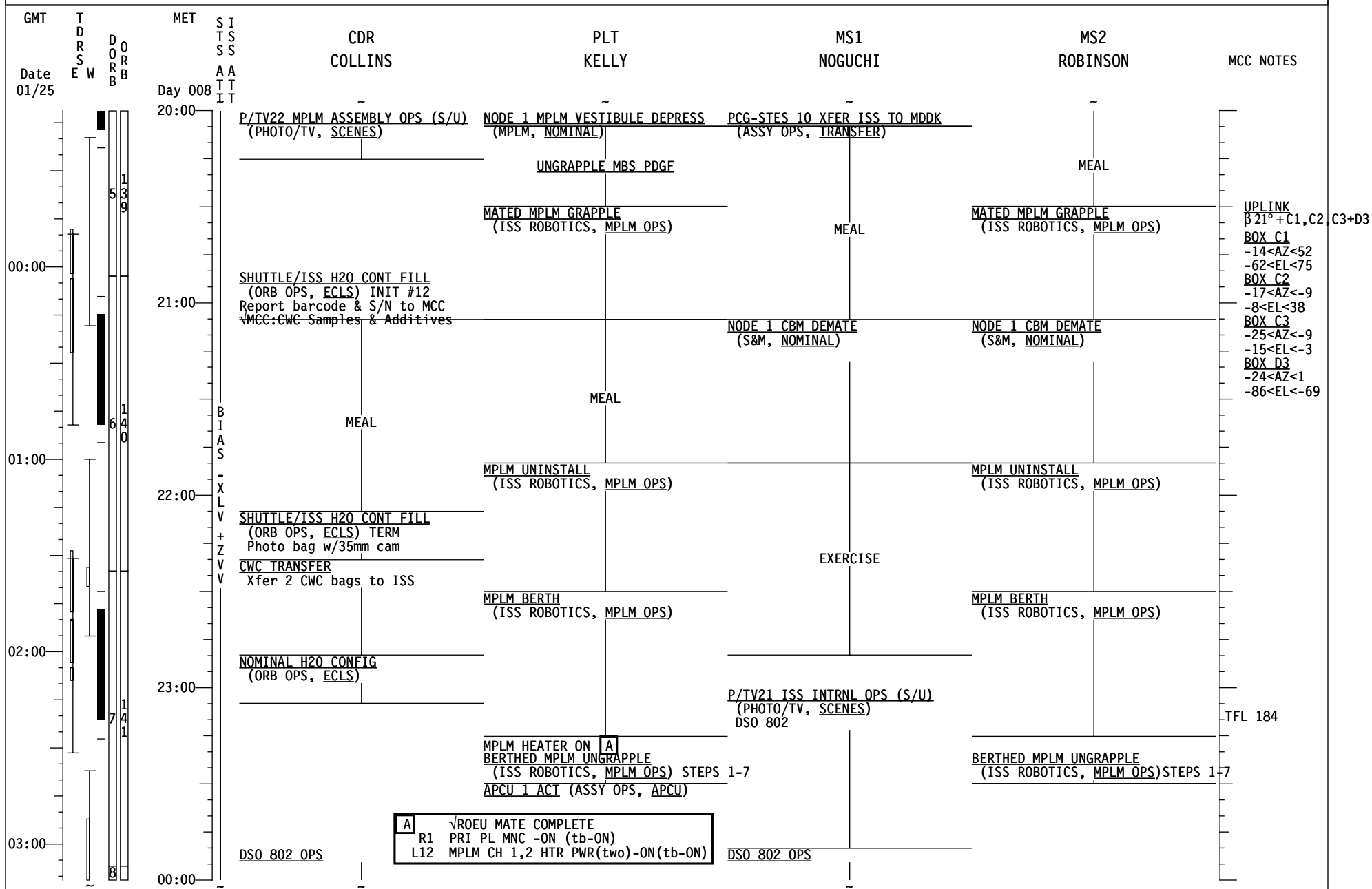
# STS-114 ULF1 (FD 10)

GMT	T D R S E W	D O R B	MET	S I T S S A A T T I T	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/25			Day 008						
16:00		1 3 6			P/TV21 ISS INTRNL OPS (S/U) (PHOTO/TV, SCENES)	CONFIG MPLM RACKS FOR RE-ENTRY (S&M, NOMINAL)	CONFIG MPLM RACKS FOR RE-ENTRY (S&M, NOMINAL)	METOX REGENERATION TERM (ISS EVA SYS, EMU MAINT/RCHRG)	
		2 3 6			PUBLIC AFFAIRS EVENT REF MSG ###	DAILY STS/ISS CREW TRANSFER TAGUP	POST EVA3 RECONFIG & XFER (ISS EVA SYS, AIRLOCK CONFIG)	POST EVA3 RECONFIG & XFER (ISS EVA SYS, AIRLOCK CONFIG)	
20:00		3 3 7			SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) INIT #11 Report barcode & S/N to MCC MCC:CWC Samples & Additives	DAILY TRANSFER BRIEFING			
		1 3 7			EXERCISE	MPLM EGRESS (MPLM, NOMINAL)			
		3 3 7				MPLM DEWPOINT CHECK Perform prior to Step 9 of Egress			
		1 3 7				MPLM DEACTIVATION (MPLM, NOMINAL) Steps 1-2, 4-7			
		1 3 7				MPLM VESTIBULE CONFIG FOR DEMATE (MPLM, NOMINAL)			
21:00		3 3 7			SHUTTLE/ISS H2O CONT FILL (ORB OPS, ECLS) TERM Photo bag w/35mm cam				
		3 3 7			SAFER SWAP		SAFER SWAP		
18:00		3 3 7			EVA TOOL STOW		EVA TOOL STOW	EXERCISE	TFL 192
		3 3 7							
22:00		4 3 8			RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-in-Plan			RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart and Plug-in-Plan	
		4 3 8				NODE 1 MPLM VESTIBULE DEPRESS (MPLM, NOMINAL)			
		4 3 8					PCG-STES 10 XFER ISS TO MDDK (ASSY OPS, TRANSFER)		
		4 3 8			RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)			RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	
23:00		5 3 9			P/TV22 MPLM ASSEMBLY OPS (S/U) (PHOTO/TV, SCENES)				
20:00		5 3 9						MEAL	

# STS-114 ULF1 (FD 10)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/25			Day 008					
		1 2 3 6	16:00	<u>MPLM TRANSFER CLEANUP</u> Ref. MPLM RETURN XFER LIST	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		
					<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###		
20:00		1 3 7		<u>MPLM EGRESS</u> (MPLM, NOMINAL)				
			17:00	<u>MPLM DEACTIVATION</u> (MPLM, NOMINAL) Steps 1-2, 4-6	EXERCISE			
				<u>MPLM VESTIBULE CONFIG FOR DEMATE</u> (MPLM, NOMINAL)		EXERCISE		
21:00		1 4 8						
			18:00					
					HANDOVER			
22:00		1 5 9		<u>NODE 1 MPLM VESTIBULE DEPRESS</u> (MPLM, NOMINAL)				
			19:00		<u>PCG-STES 10 XFER ISS TO MDDK</u> (ASSY OPS, <u>TRANSFER</u> )	HANDOVER		
23:00								
			20:00					

# STS-114 ULF1 (FD10 )

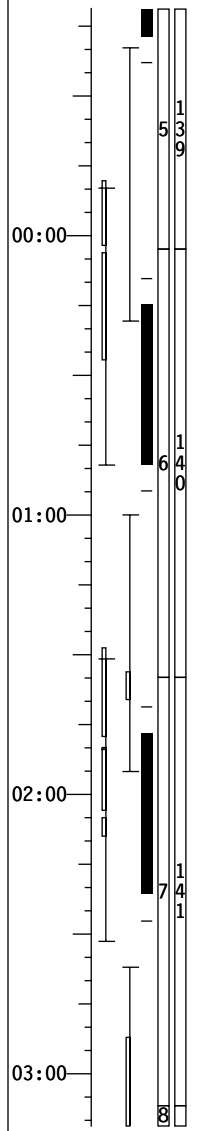


[A] ✓ROEU MATE COMPLETE  
R1 PRI PL MNC -ON (tb-ON)  
L12 MPLM CH 1,2 HTR PWR(two)-ON(tb-ON)

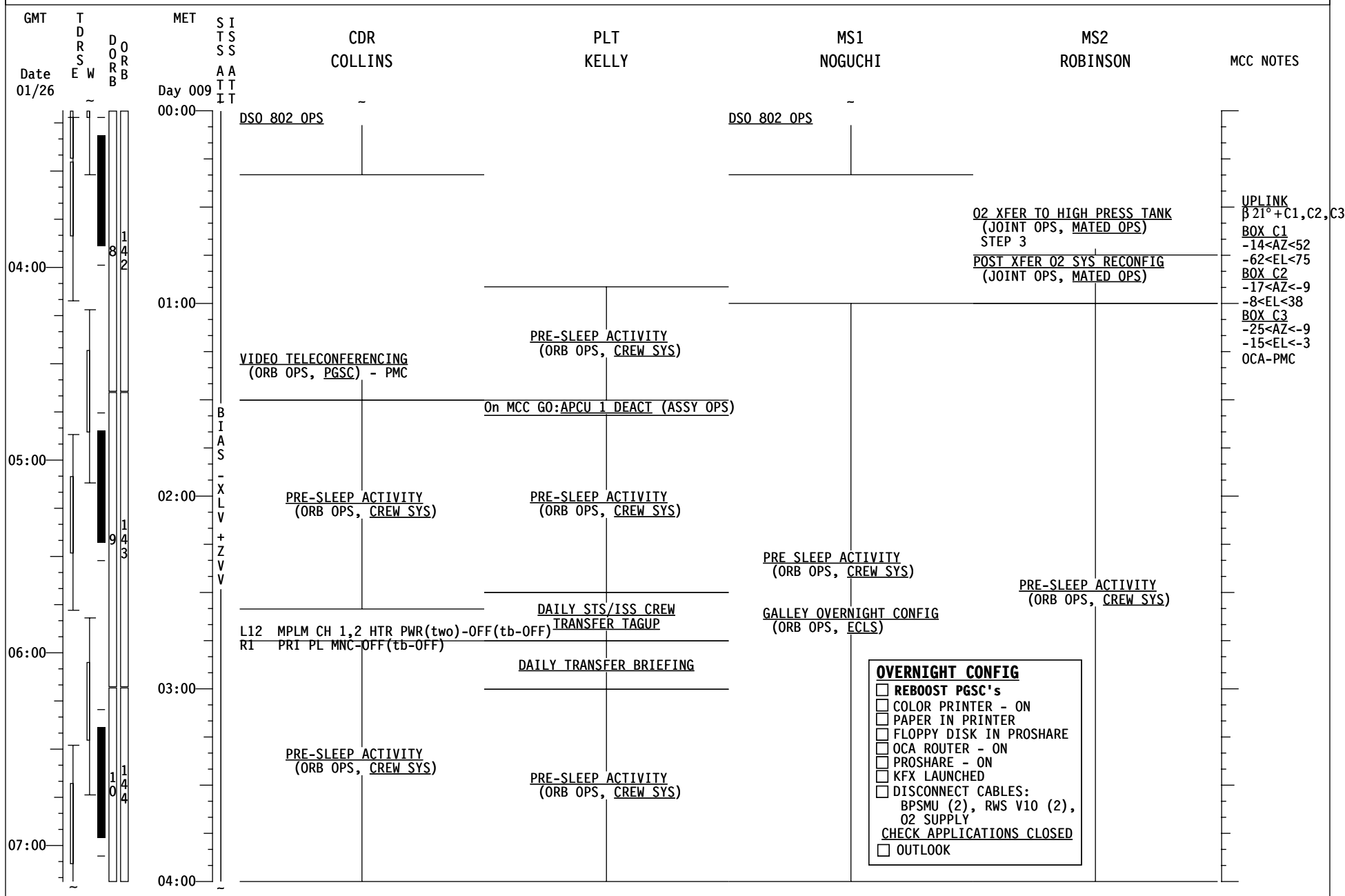


# STS-114 ULF1 (FD 10 )

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/25			Day 008					
			20:00	NODE 1 MPLM VESTIBULE DEPRESS (MPLM, NOMINAL)	PCG-STES 10 XFER ISS TO MDDK (ASSY OPS, TRANSFER)	HANDOVER		
				MEAL	MEAL	MEAL		
00:00								
			21:00					
01:00								
			22:00	HANDOVER				
					HANDOVER	HANDOVER		
02:00								
			23:00					
				EXERCISE				
03:00					EXERCISE-CEVIS			
			00:00					



# STS-114 ULF1 (FD 10)



O2 XFER TO HIGH PRESS TANK  
(JOINT OPS, MATED OPS)  
STEP 3  
POST XFER O2 SYS RECONFIG  
(JOINT OPS, MATED OPS)

UPLINK  
β 21° + C1, C2, C3  
BOX C1  
-14<AZ<52  
BOX C2  
-62<EL<75  
-17<AZ<-9  
-8<EL<38  
BOX C3  
-25<AZ<-9  
-15<EL<-3  
OCA-PMC

VIDEO TELECONFERENCING  
(ORB OPS, PGSC) - PMC

On MCC GO:APCU 1 DEACT (ASSY OPS)

PRE SLEEP ACTIVITY  
(ORB OPS, CREW SYS)

PRE-SLEEP ACTIVITY  
(ORB OPS, CREW SYS)

GALLEY OVERNIGHT CONFIG  
(ORB OPS, ECLS)

L12 MPLM CH 1,2 HTR PWR(two)-OFF(tb-OFF)  
R1 PRI PL MNC-OFF(tb-OFF)

DAILY STS/ISS CREW  
TRANSFER TAGUP

DAILY TRANSFER BRIEFING

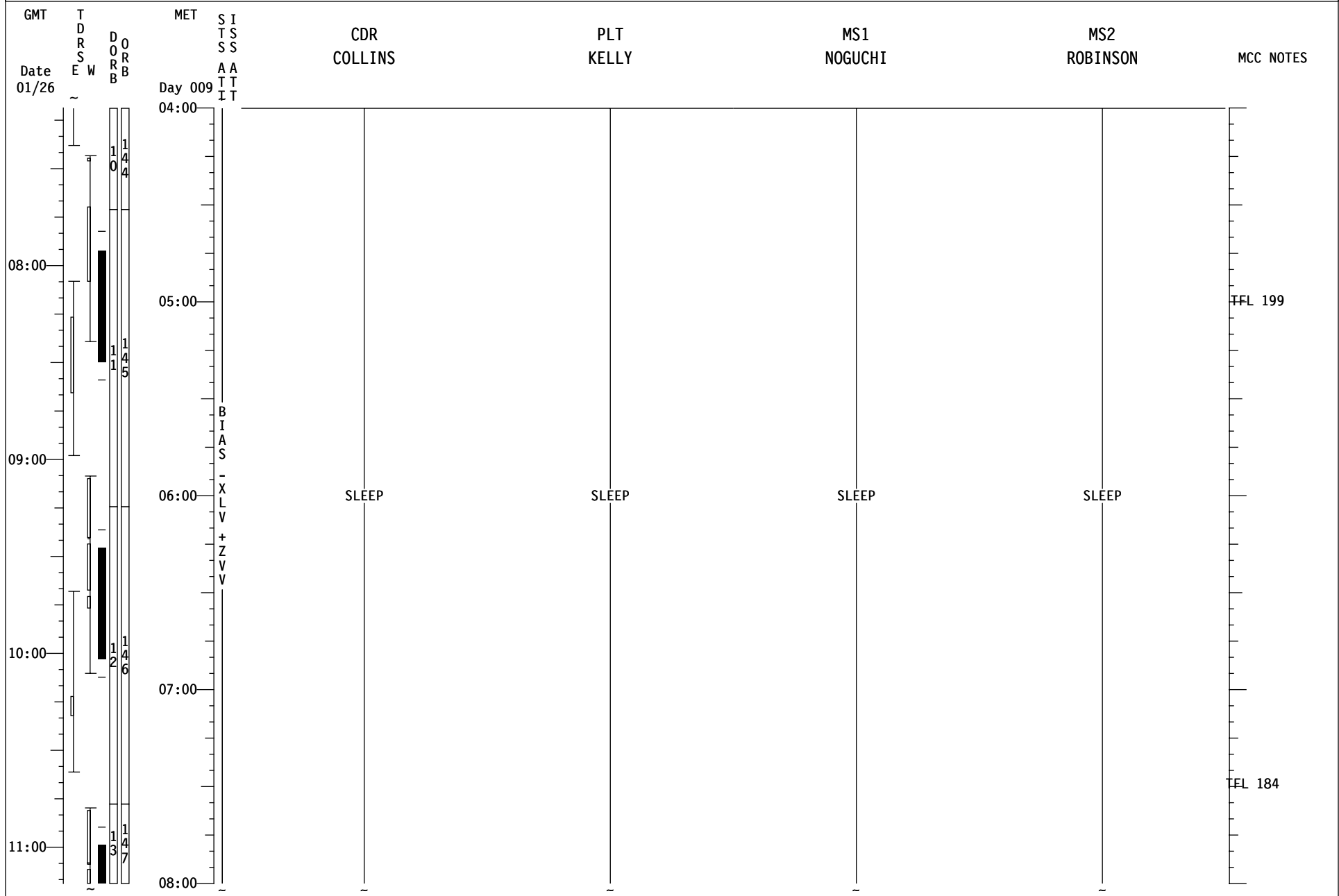
- OVERNIGHT CONFIG**

  - REBOOST PGSC's
  - COLOR PRINTER - ON
  - PAPER IN PRINTER
  - FLOPPY DISK IN PROSHARE
  - OCA ROUTER - ON
  - PROSHARE - ON
  - KFX LAUNCHED
  - DISCONNECT CABLES:  
BPSMU (2), RWS V10 (2),  
O2 SUPPLY
  - CHECK APPLICATIONS CLOSED
  - OUTLOOK

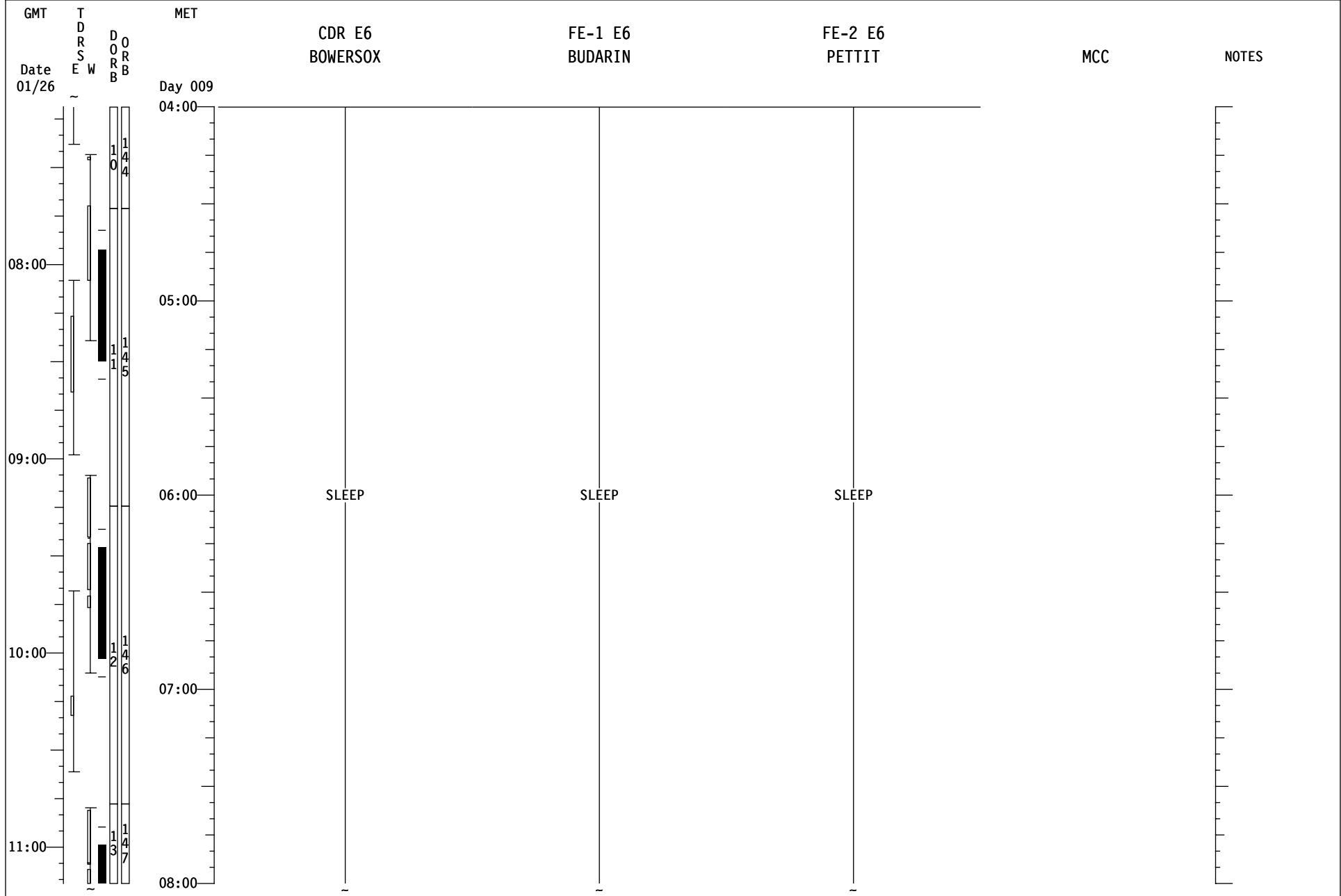
# STS-114 ULF1 (FD 10)

GMT	T D R S E W	D O R B	MET	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES
Date 01/26			Day 009					
			00:00	EXERCISE	EXERCISE-CEVIS			
				02 XFER TO HIGH PRESS TANK (JOINT OPS, MATED OPS) STEP 3		EXERCISE-TVIS	MPLM ENVIRONMENT CHECK (MPLM, NOM)	
04:00		142		POST XFER 02 SYS RECONFIG (JOINT OPS, MATED OPS)	MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD)			
			01:00	DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF		
05:00		143						
			02:00					
				PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
06:00								
			03:00					
07:00		144						
			04:00					

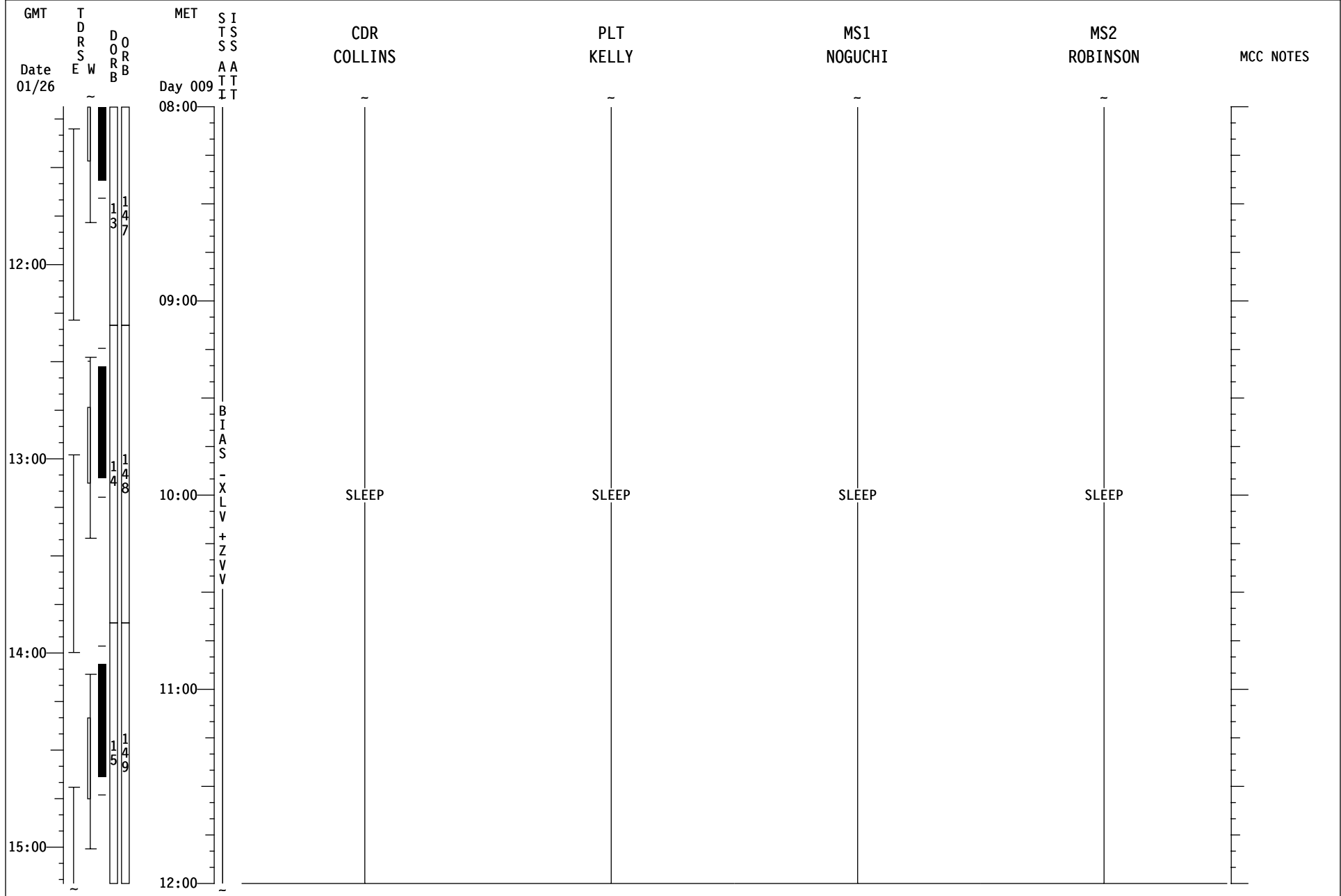
# STS-114 ULF1 (FD 10)



# STS-114 ULF1 (FD 10)



# STS-114 ULF1 (FD 10)



# STS-114 ULF1 (FD 10)

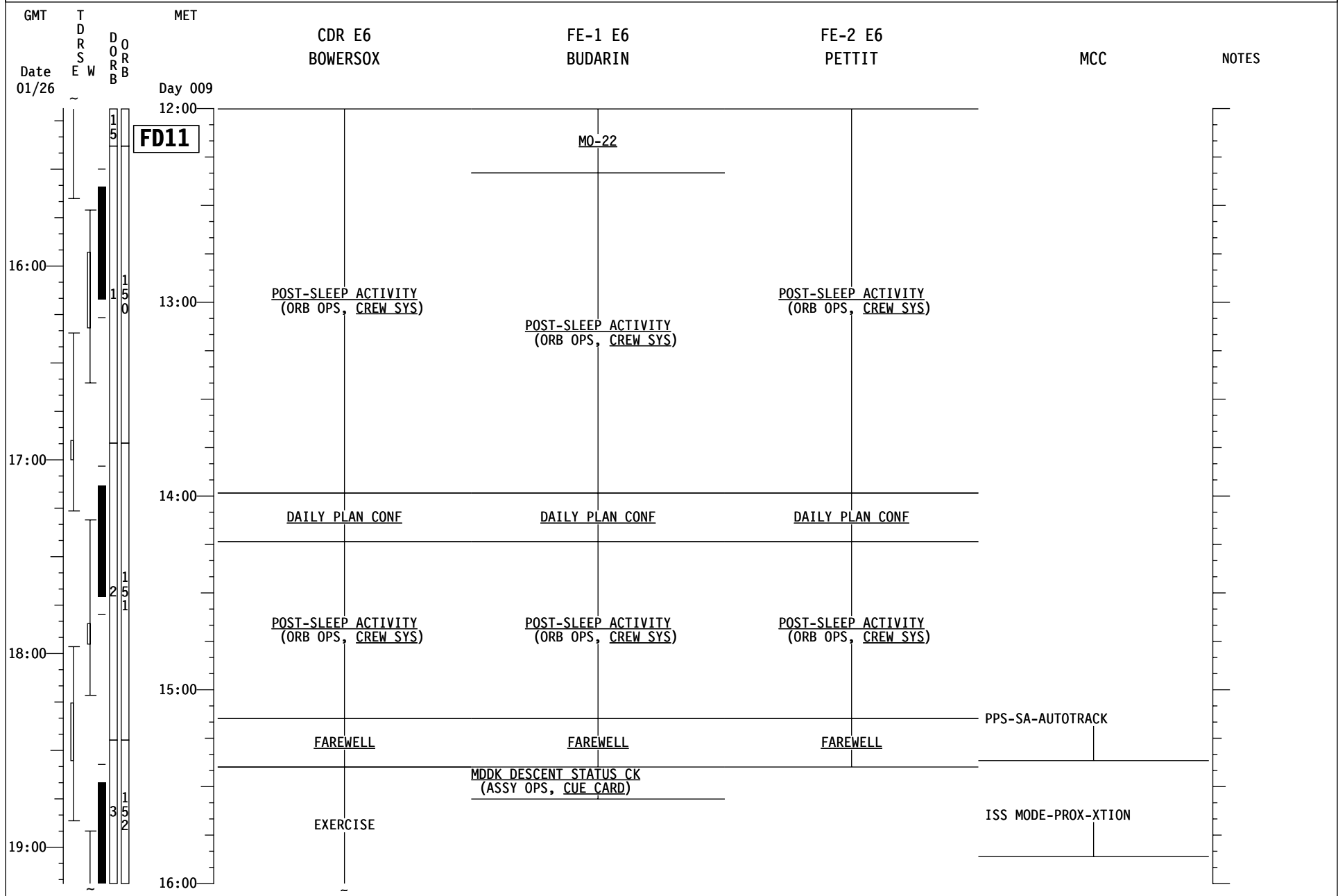
GMT Date 01/26	T D R S E W	D O R B	MET Day 009	CDR E6 BOWERSOX	FE-1 E6 BUDARIN	FE-2 E6 PETTIT	MCC	NOTES	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">14:00</div> <div style="margin-bottom: 10px;">13:00</div> <div style="margin-bottom: 10px;">12:00</div> <div style="margin-bottom: 10px;">09:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>

# STS-114 ULF1 (FD 11)

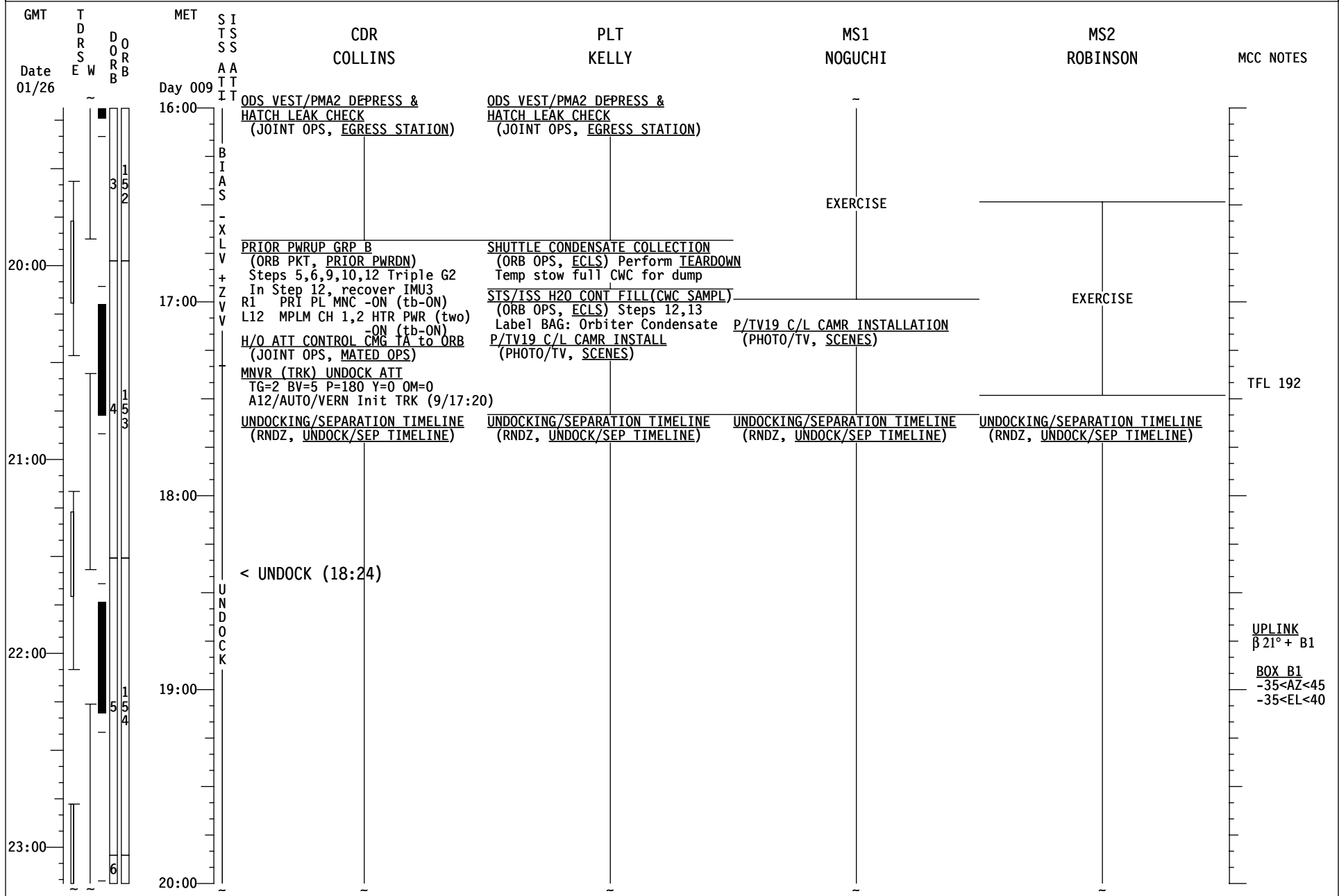
GMT Date 01/26	T D R S E W	D O R B	MET Day 009	SI TS SS AA TT IT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
					<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>	
					<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>FD11 EZ ACTIVITIES</b>                      OCAC FILTER INSPECT                      TEPC (POWER UP)                      (ORB OPS, CREW SYS)                      STEP 6                 </div>				
16:00					<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
						<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>GALLEY MORNING CONFIG</u> (ORB OPS, ECLS)		
17:00									
						<u>P/TV20 ISS DOCK/UNDOCK (SETUP)</u> (PHOTO/TV, SCENES)			TFL 199
						<u>DAILY STS/ISS CREW</u> <u>TRANSFER TAGUP</u>	<u>P/TV21 ISS INTRNL OPS (S/U)</u> (PHOTO/TV, SCENES)		
18:00						<u>DAILY TRANSFER BRIEFING</u>			
					<u>FAREWELL</u> KU AVAIL XX:XX - XX:XX	<u>FAREWELL</u>	<u>FAREWELL</u>	<u>FAREWELL</u>	
					<u>SHUTTLE/ISS DUCT REMOVAL</u> <u>AND HATCH CLOSING</u> (JOINT OPS, EGRESS STATION)	<u>SHUTTLE/ISS DUCT REMOVAL</u> <u>AND HATCH CLOSING</u> (JOINT OPS, EGRESS STATION)	<u>P/TV21 ISS INTRNL OPS (OPS)</u> (PHOTO/TV, SCENES)	<u>HARDLINE AUDIO CONFIG BACKOUT</u> (JOINT OPS, COMM/DATA) Steps 1,3,4	
19:00					<u>ODS VEST/PMA2 DEPRESS &amp;</u> <u>HATCH LEAK CHECK</u> (JOINT OPS, EGRESS STATION)	<u>ODS VEST/PMA2 DEPRESS &amp;</u> <u>HATCH LEAK CHECK</u> (JOINT OPS, EGRESS STATION)	<u>EXERCISE</u>		
16:00									



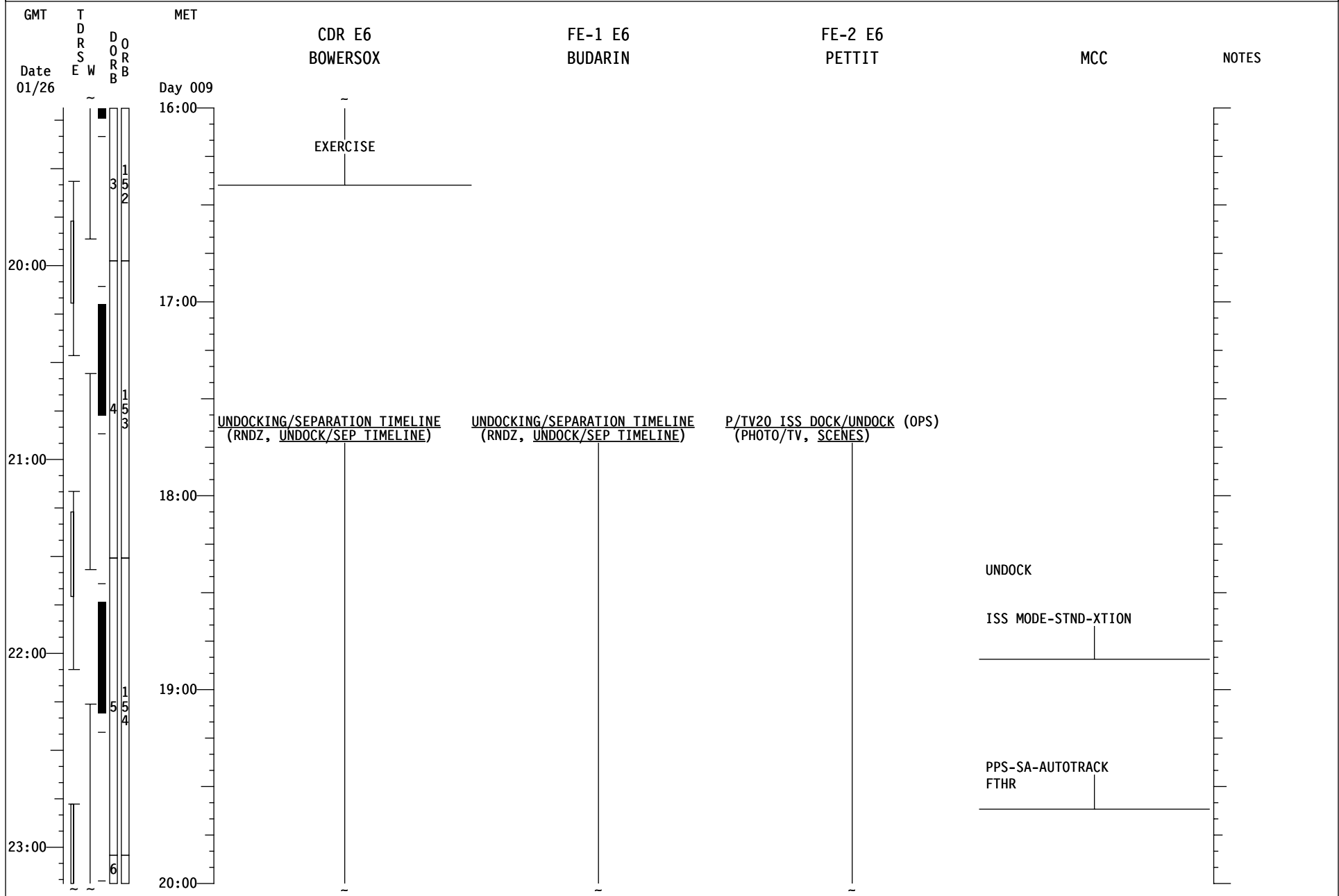
# STS-114 ULF1 (FD 11)



# STS-114 ULF1 (FD11 )



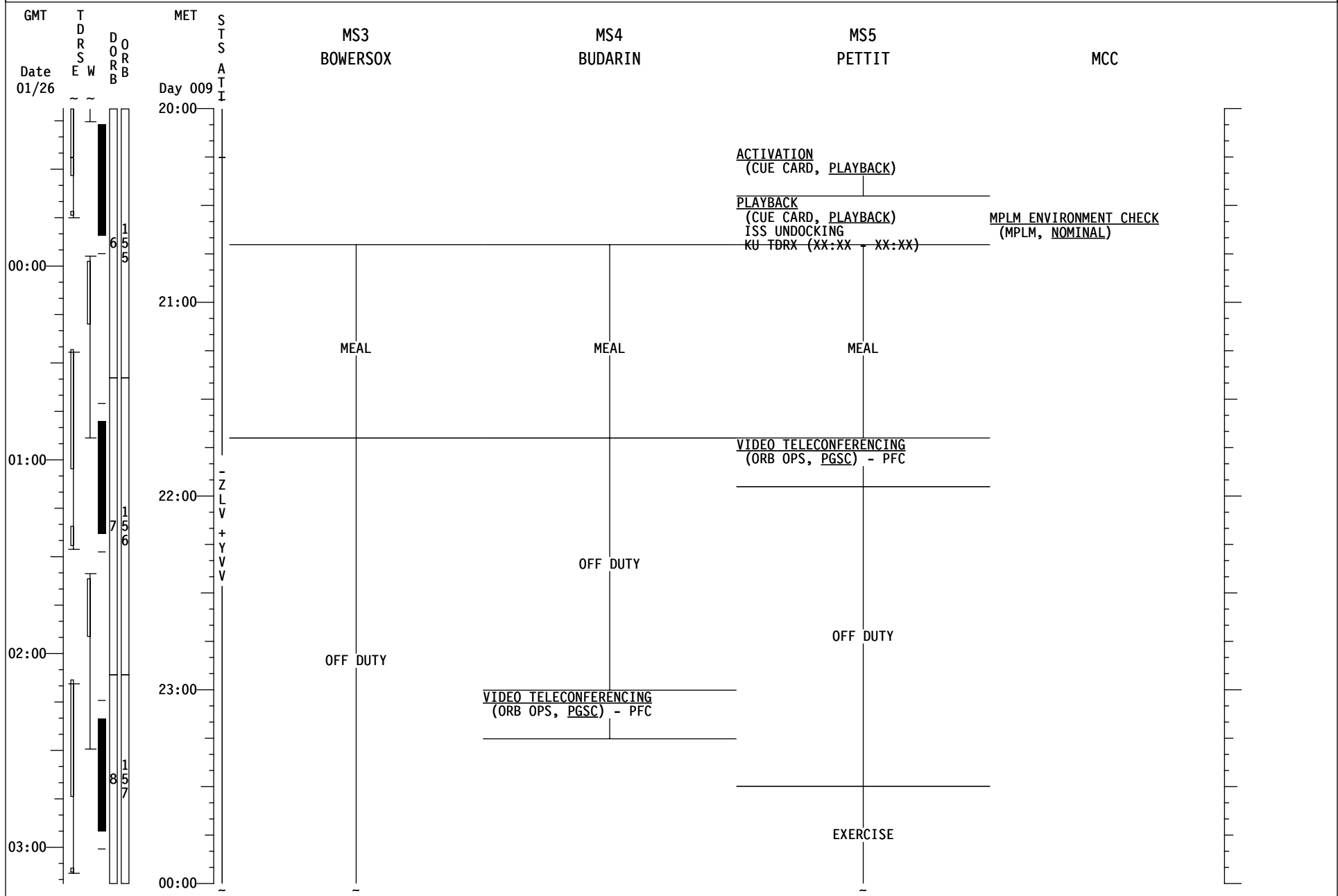
# STS-114 ULF1 (FD 11 )



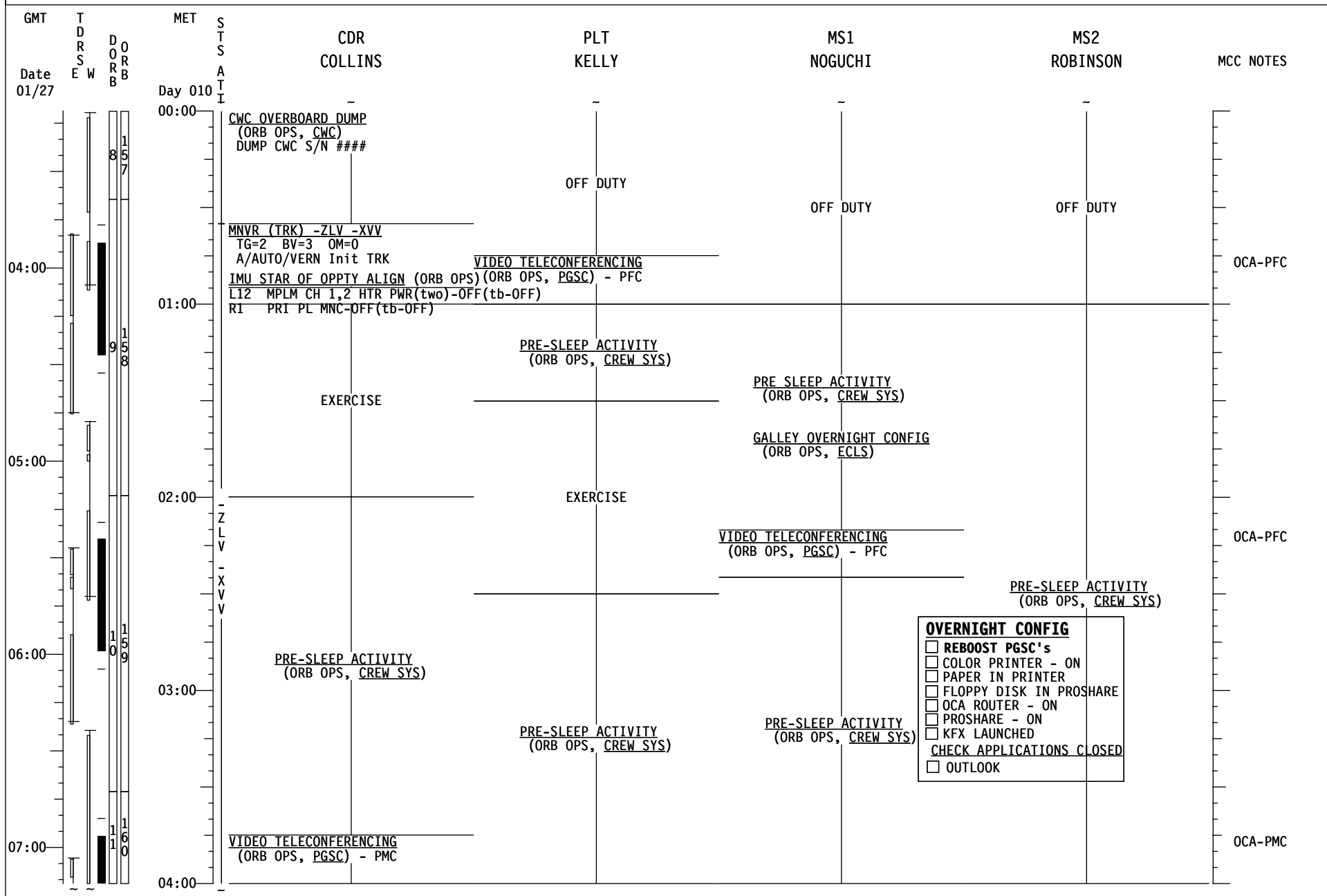
# STS-114 ULF1 (FD11)

GMT	TDRSEW	DORB	MET	STS AT	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/26			Day 009	UNDocking/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP TIMELINE)	UNDocking/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP TIMELINE)	UNDocking/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP TIMELINE)	UNDocking/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP TIMELINE)	UNDocking/SEPARATION TIMELINE (RNDZ, UNDOCK/SEP TIMELINE)	
			20:00	< SEP (20:08)					
			00:00	<u>MNVR (TRK) -ZLV +YVV</u> TG=2 BV=3 OM=270 A/AUTO/VERN Init TRK (9/20:15) APCU 1 ACT (ASSY OPS, APCU)	<u>PRIOR PWRDN GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,12 Single G2 In Step 12, IMU 3 STBY-ITEM 23 <u>RMS POWERDOWN</u> (PDRS, RMS PWRDN) Note: Stow MPM's, Steps 3,5,6	<u>COMM STRING 1 C/O (PART A)</u> (ORB OPS, COMM/INST) <u>SSOR DEACTIVATION</u> (JOINT OPS, COMM/DATA)	<u>PRIOR PWRDN GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,12 Single G2 In Step 12, IMU 3 STBY-ITEM 23 <u>ILLUMINATOR OPS</u> (PHOTO/TV, CUE CARD) ILLUMINATORS OFF - ALL	<u>UPLINK</u> β 21° + MASK  EXEC	
			01:00		MEAL	MEAL	MEAL	MEAL	
			02:00		OFF DUTY		OFF DUTY		
			03:00						
			00:00	-ZLV +YVV <u>VIDEO TELECONFERENCING</u> (ORB OPS, PGSC) - PFC <u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate SUPPLY/WASTE Dump <u>CWC OVERBOARD DUMP</u> (ORB OPS, CWC) - DUMP CWC S/N ###					On MCC GO:APCU 1 DEACT (ASSY OPS)  UPDATE H2O WASTE DUMP QTY  OCA-PFC  OCA-PFC

# STS-114 ULF1 (FD 11)



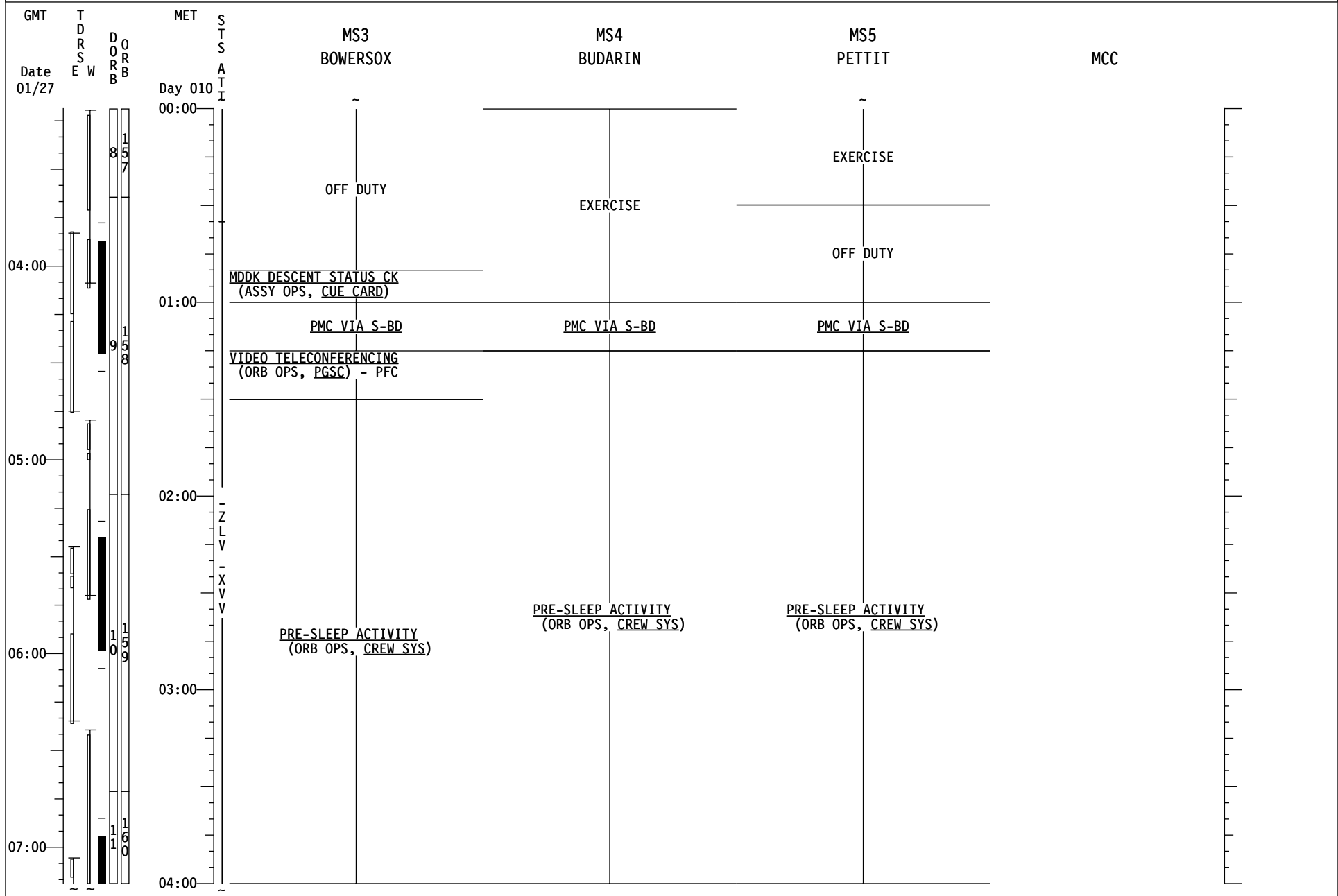
# STS-114 ULF1 (FD11 )



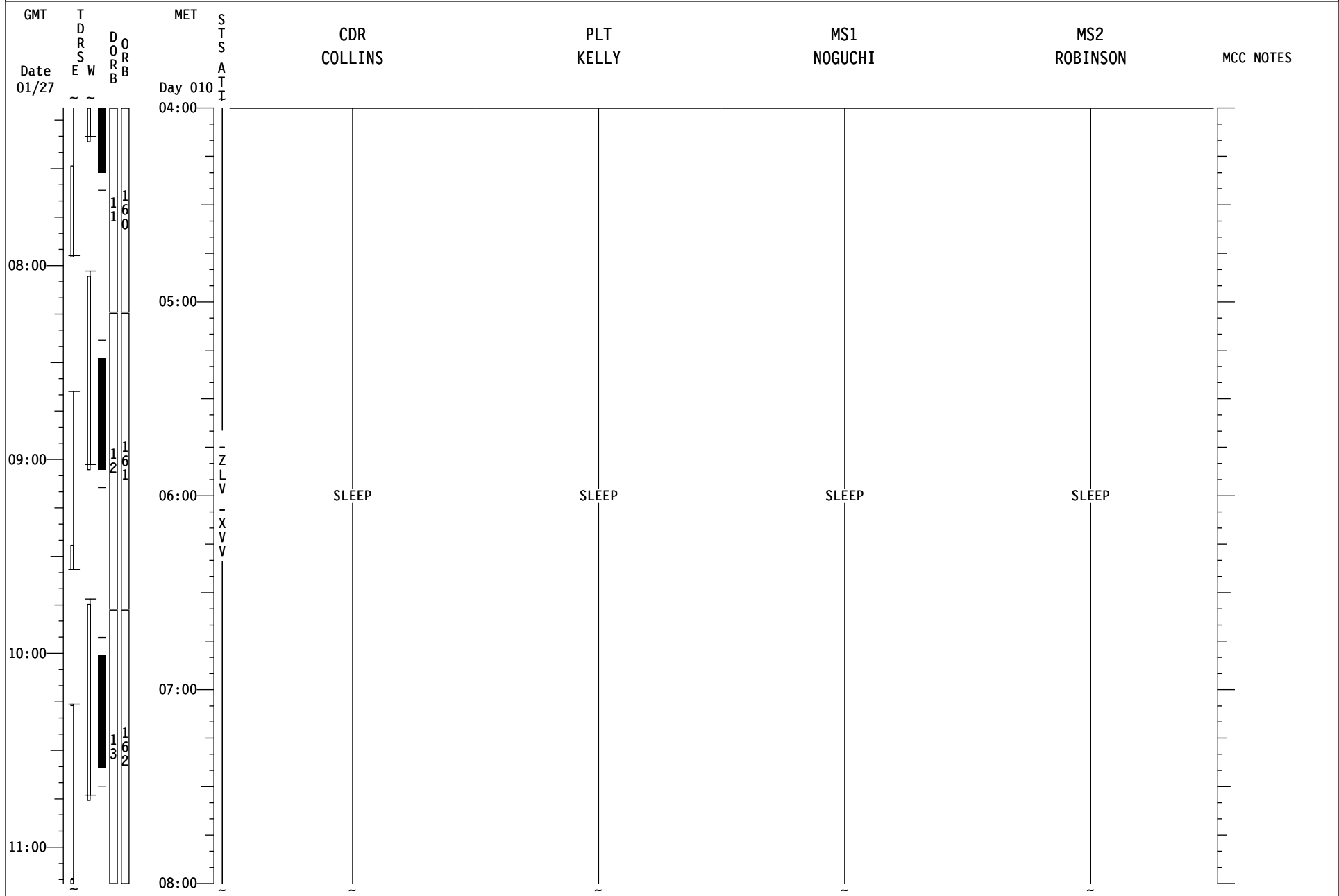
**OVERNIGHT CONFIG**

- REBOOST PGSC's
- COLOR PRINTER - ON
- PAPER IN PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - ON
- KFX LAUNCHED
- CHECK APPLICATIONS CLOSED
- OUTLOOK

# STS-114 ULF1 (FD 11)

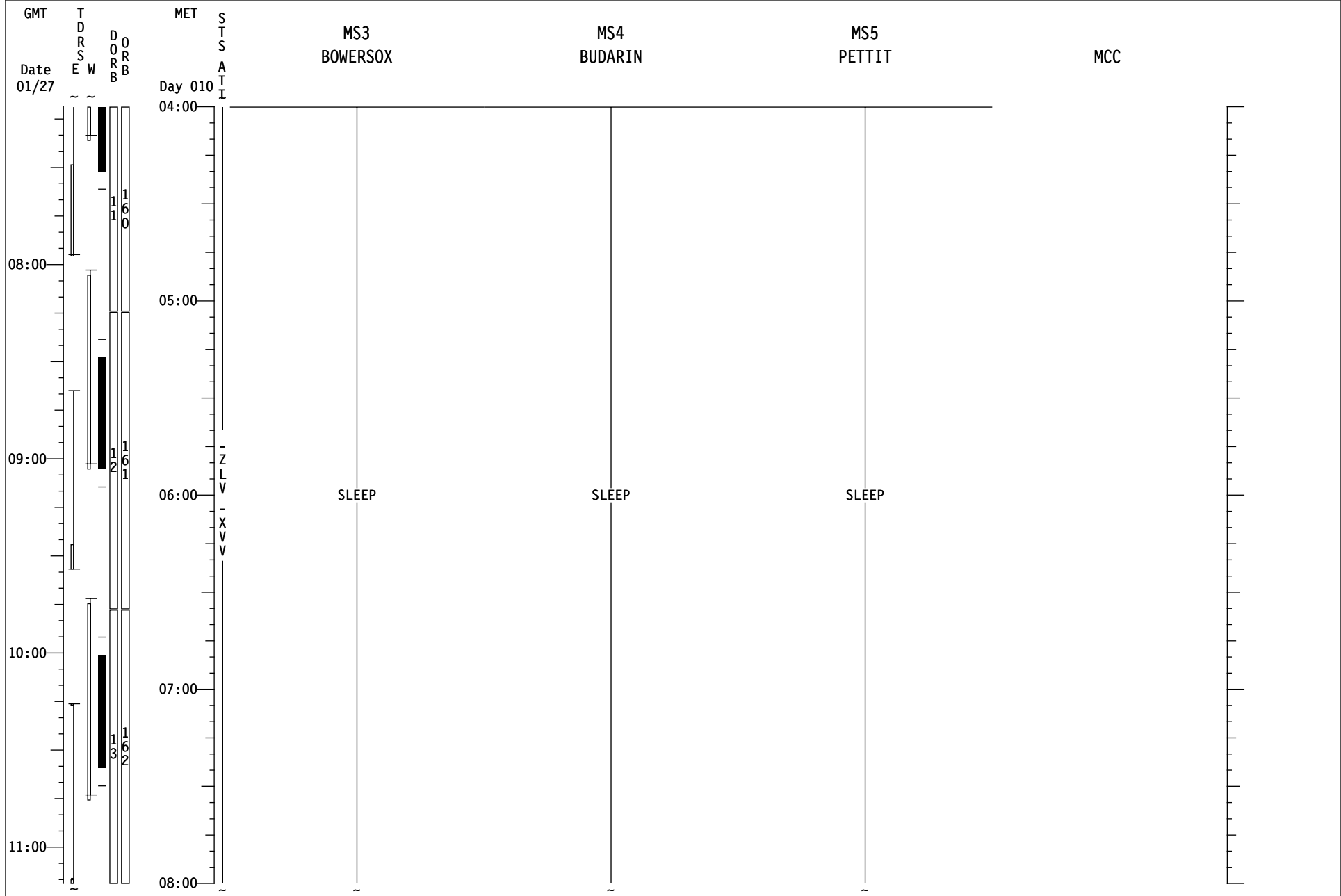


# STS-114 ULF1 (FD11 )

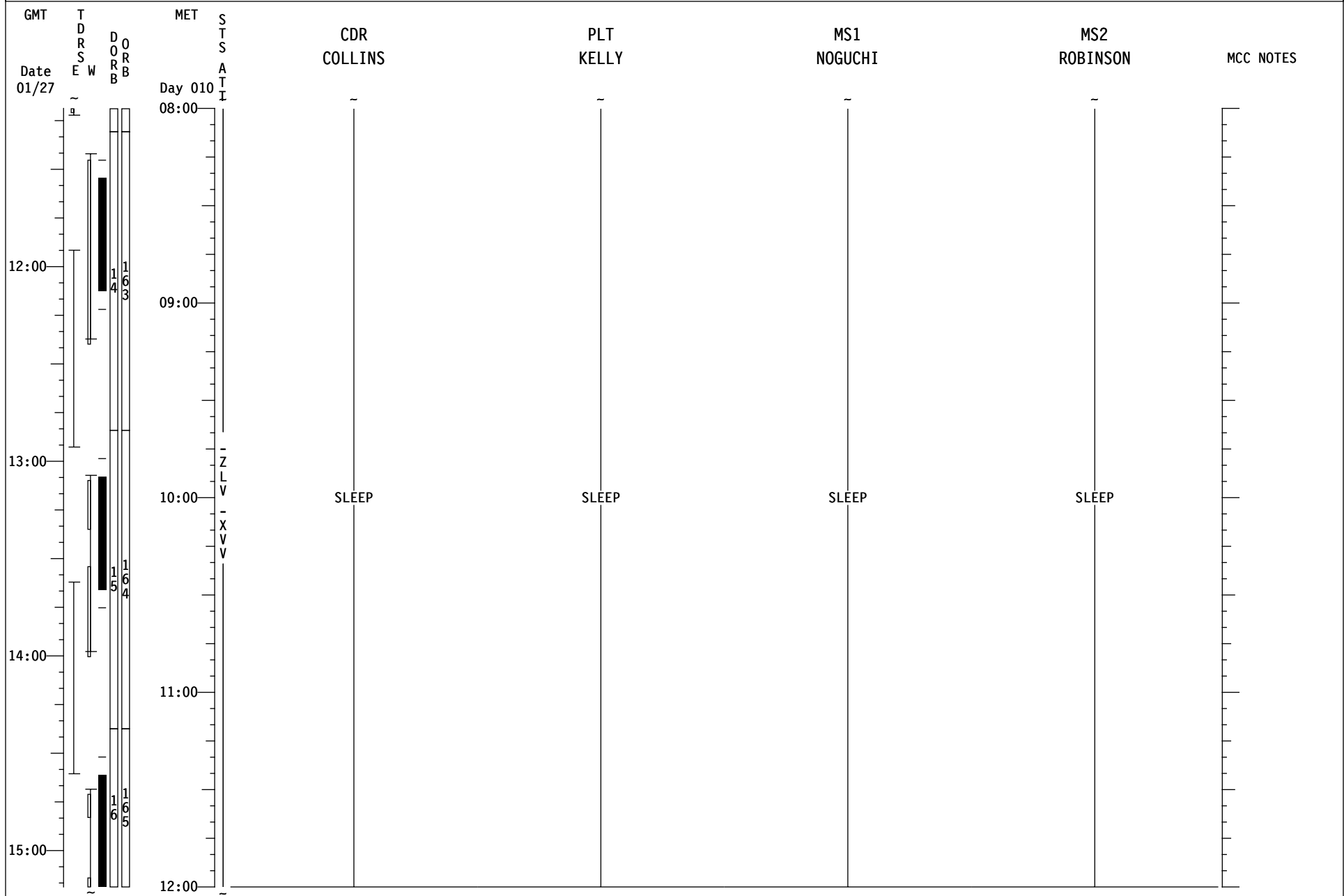




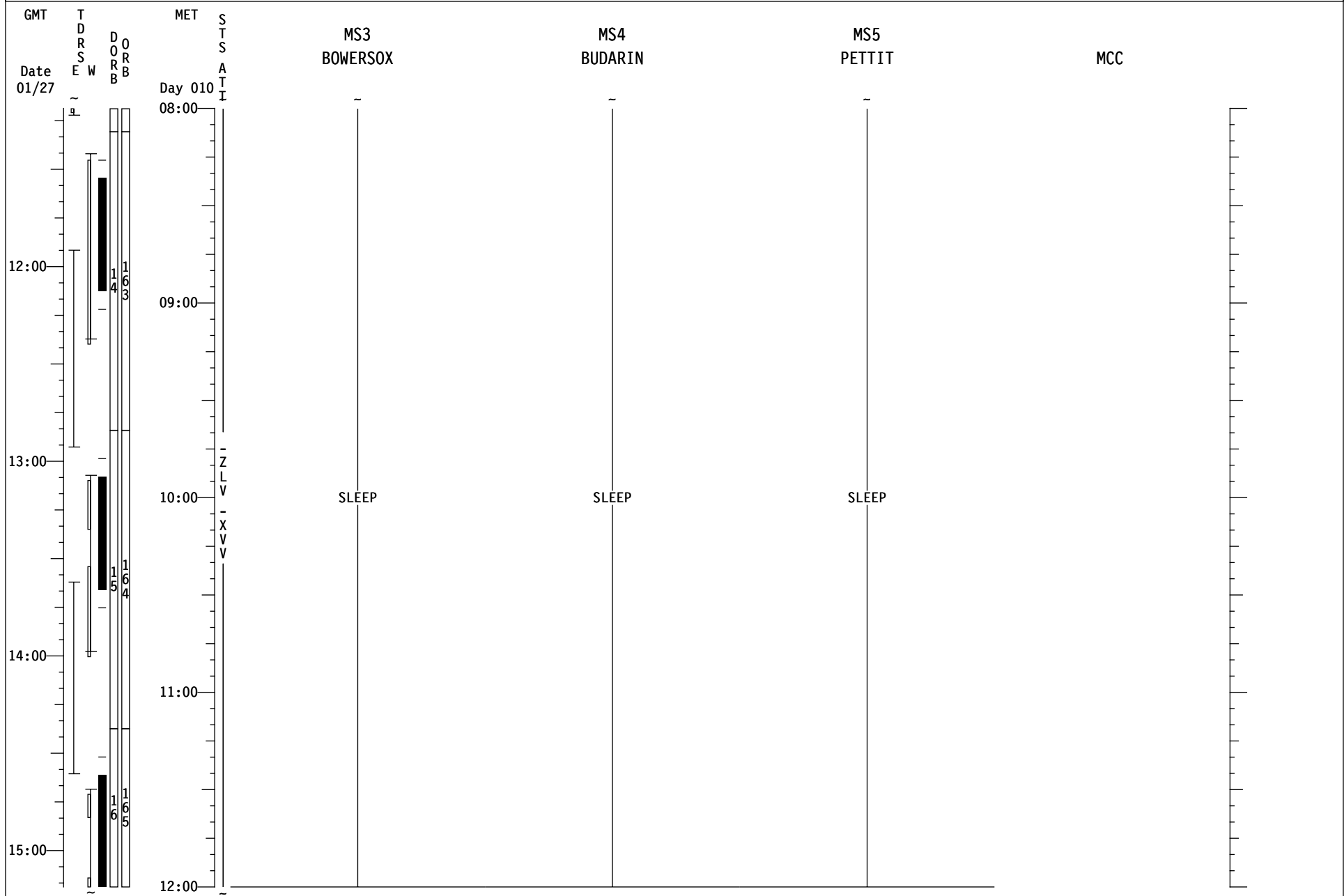
# STS-114 ULF1 (FD 11)



# STS-114 ULF1 (FD 12)



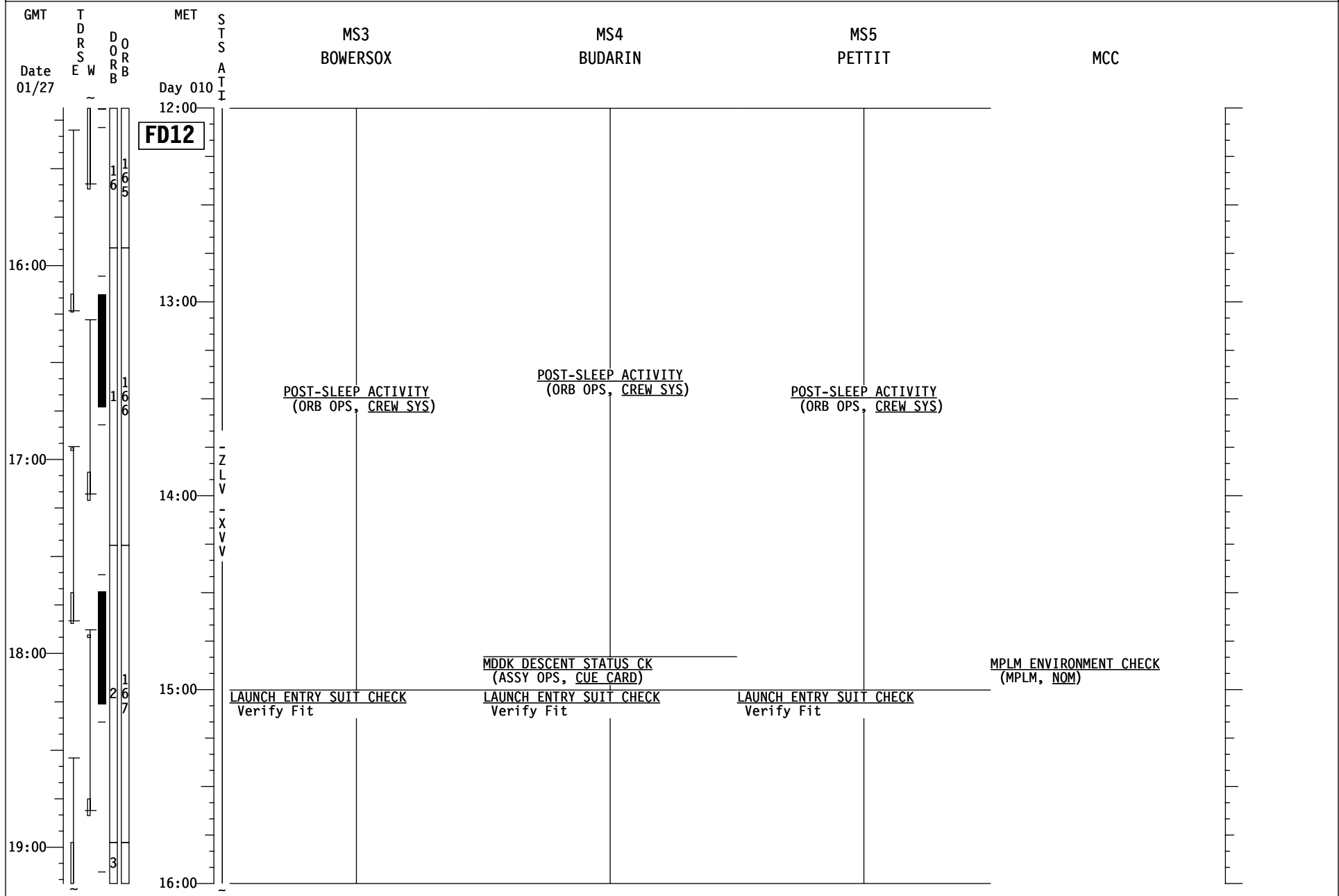
# STS-114 ULF1 (FD 12)



# STS-114 ULF1 (FD12 )

GMT	T D R S E W	D O R B	MET	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
Date 01/27			Day 010					
			12:00	<u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>FLIGHT SLEEP LOG (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u> <u>SALIVA COLLECTION (ORB OPS, DSO)</u>				
				<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>FD12 EZ ACTIVITIES</b>                      QCAC FILTER INSPECT                      TEPC (POWER UP)                      (ORB OPS, CREW SYS)                      STEP 6                 </div>				
16:00			13:00	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
						<u>GALLEY MORNING CONFIG</u> (ORB OPS, ECLS)		
17:00			14:00	Z L V R1 PRI PL MNC -ON (tb-ON) L12 MPLM CH 1,2 HTR PWR (two) -ON (tb-ON)	APU STEAM VENT HTR ACT R2 VBLR CNTLR/HTR (three)-B PWR (three) -ON			
				<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)			
18:00			15:00		<u>APCU 1 ACT (ASSY OPS, APCU)</u>  On MCC GO:APCU 1 DEACT (ASSY OPS)			
				<u>FCS CHECKOUT</u> (ORB OPS, GNC)	<u>FCS CHECKOUT</u> (ORB OPS, GNC)	<u>LAUNCH ENTRY SUIT CHECK</u> Verify Fit	<u>FCS CHECKOUT</u> (ORB OPS, GNC)	
19:00			16:00					TFL 185

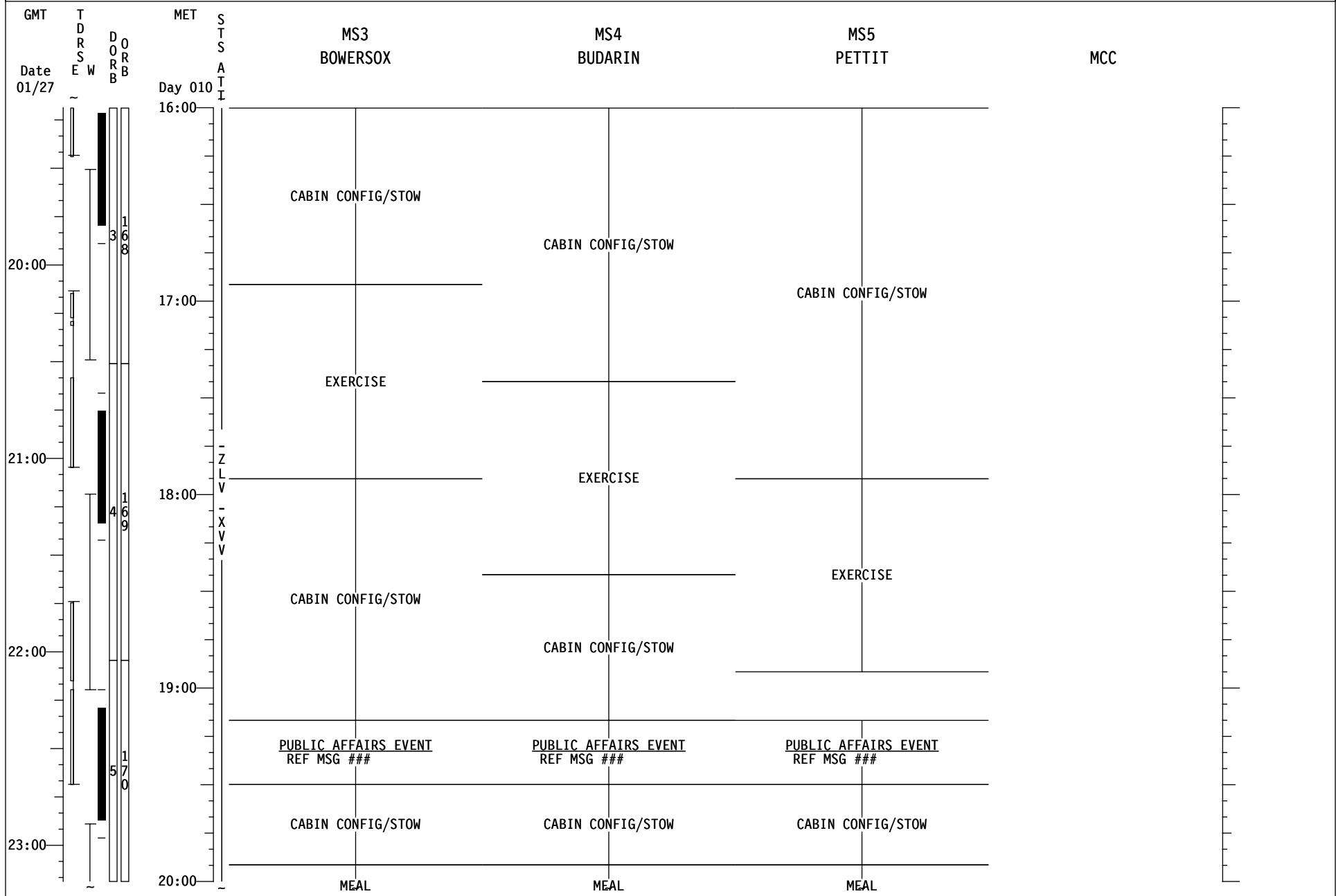
# STS-114 ULF1 (FD12 )



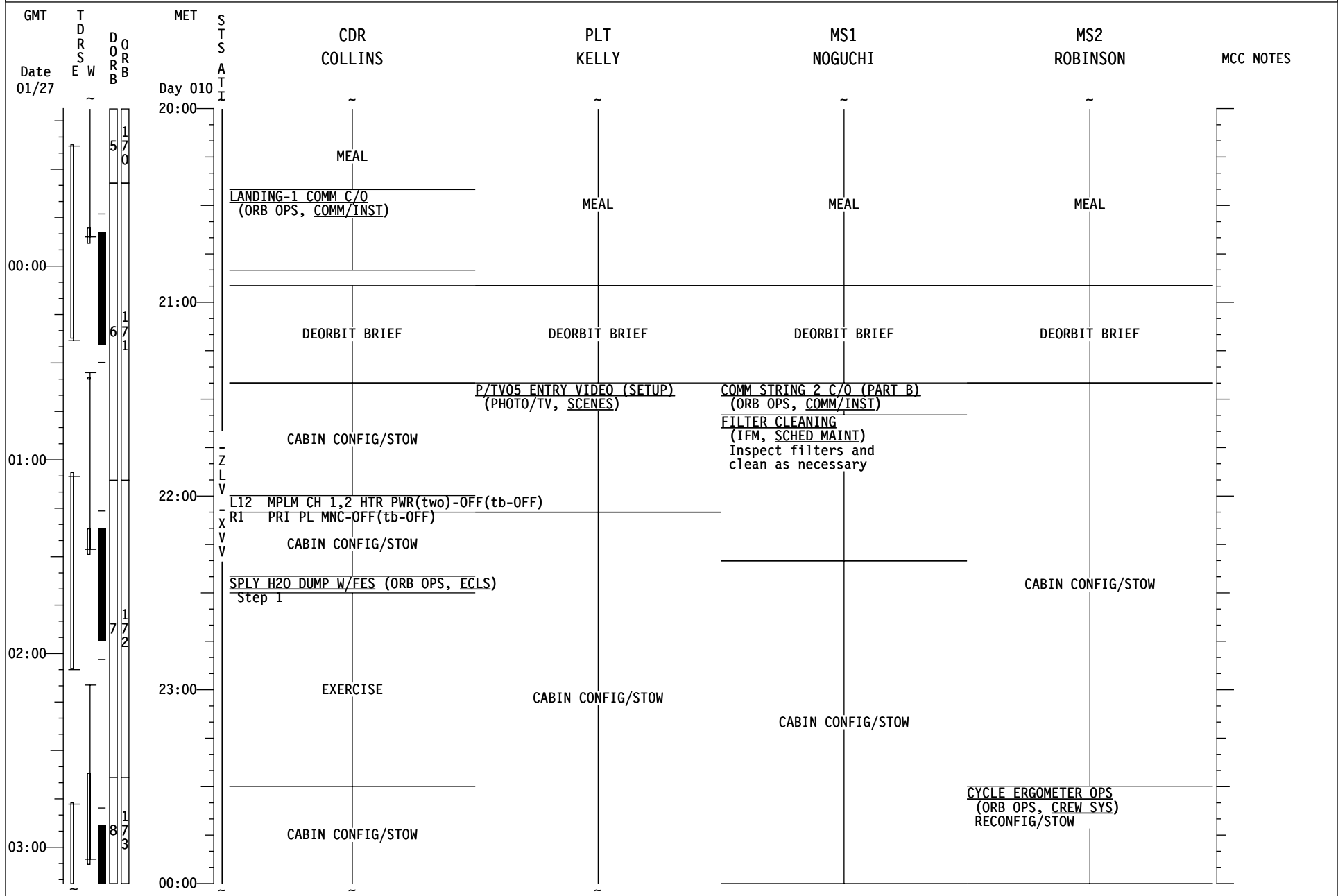
# STS-114 ULF1 (FD12 )

GMT Date 01/27	TDRS E W	DORB D O R B	MET Day 010	STS A T T I	CDR COLLINS	PLT KELLY	MS1 NOGUCHI	MS2 ROBINSON	MCC NOTES
16:00					FCS CHECKOUT (ORB OPS, GNC) RCS HOT FIRE TEST (ORB OPS, RCS) Config DAP: A/AUTO/VERN	FCS CHECKOUT (ORB OPS, GNC) RCS HOT FIRE TEST (ORB OPS, RCS) Config DAP: A/AUTO/VERN PILOT W/ RHC SETUP DIAGRAM (ORB OPS, PGSC)	CABIN CONFIG/STOW	FCS CHECKOUT (ORB OPS, GNC) RCS HOT FIRE TEST (ORB OPS, RCS) Config DAP: A/AUTO/VERN	
20:00		168			CABIN CONFIG/STOW			CABIN CONFIG/STOW	
17:00					PILOT WITH RHC (ORB OPS, PGSC)	PILOT WITH RHC (ORB OPS, PGSC)	EXERCISE	PILOT WITH RHC (ORB OPS, PGSC)	
21:00							CABIN CONFIG/STOW		
18:00		169		Z L V		P/TV02 IN-CABIN ACTS (SETUP) (PHOTO/TV, SCENES)	POST EVA ENT PREP (EVA, POST EVA ENT PREP)	POST EVA ENT PREP (EVA, POST EVA ENT PREP)	
22:00				X V V	CABIN CONFIG/STOW				
19:00					LANDING-1 COMM C/O (ORB OPS, COMM/INST)	EXERCISE			
23:00		170			PUBLIC AFFAIRS EVENT KU AVAIL TDRS XX:XX-XX:XX REF MSG ###		CABIN CONFIG/STOW	EXERCISE	
20:00					MEAL	CABIN CONFIG/STOW			
						MEAL	MEAL	MEAL	

# STS-114 ULF1 (FD 12 )

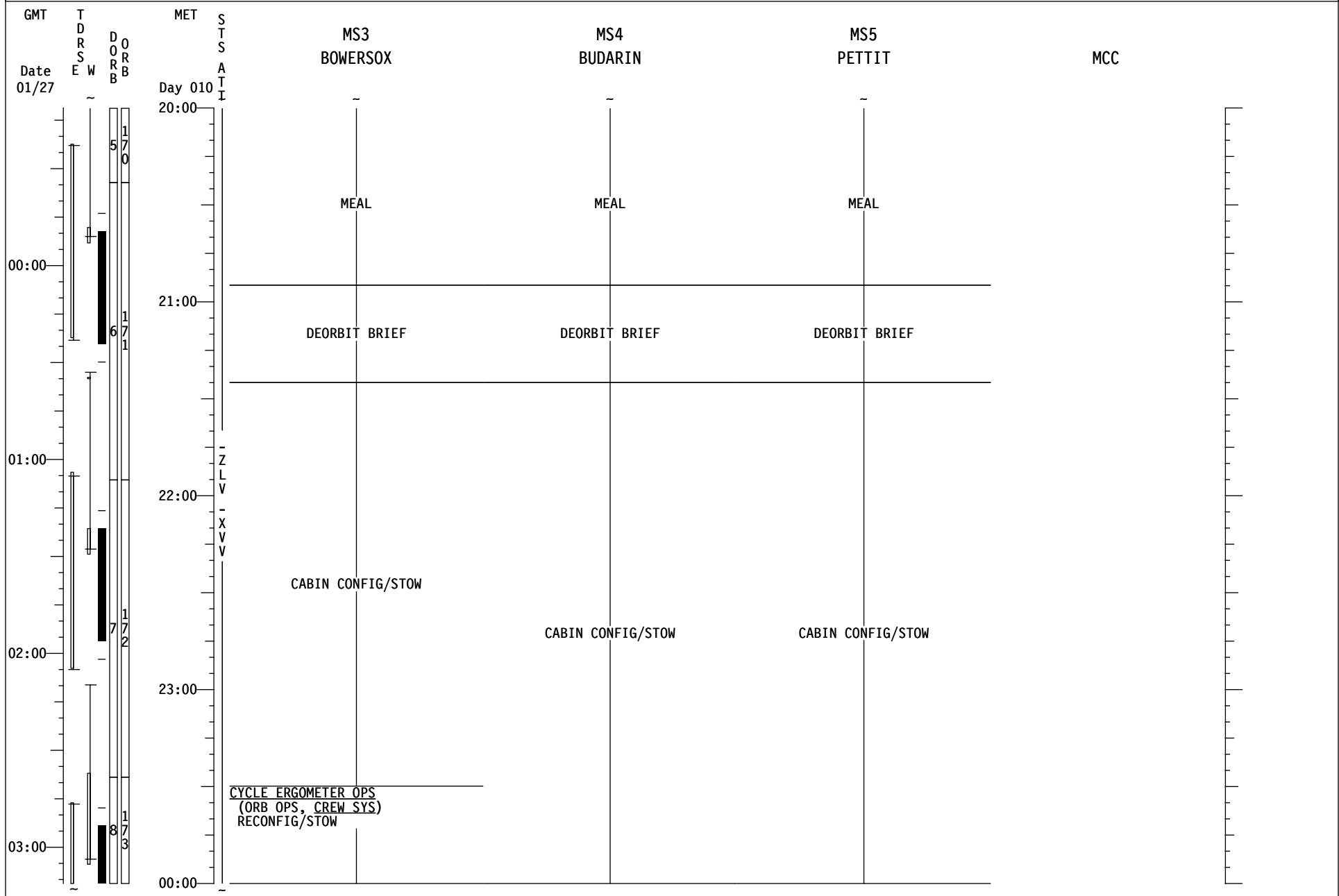


# STS-114 ULF1 (FD 12 )

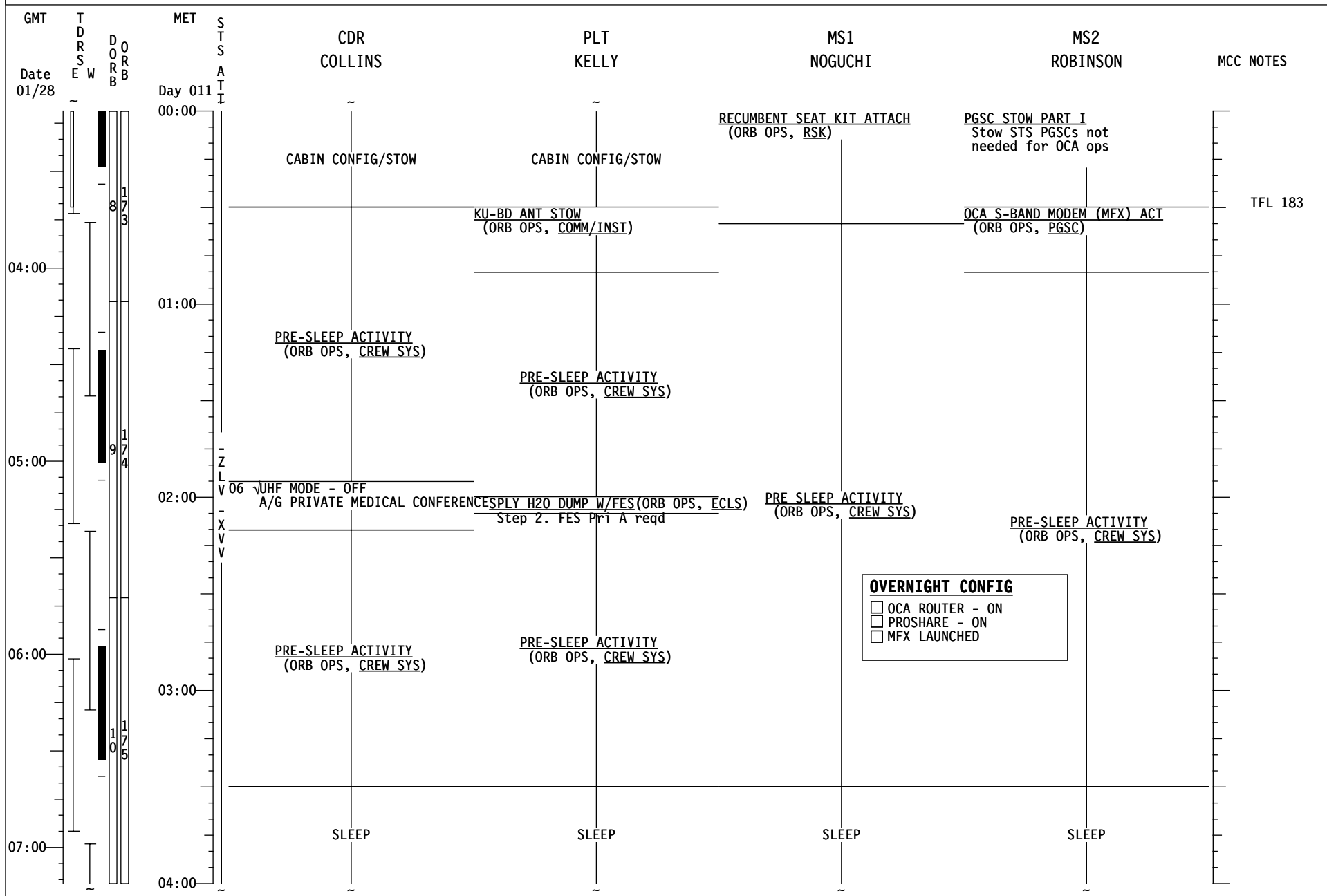




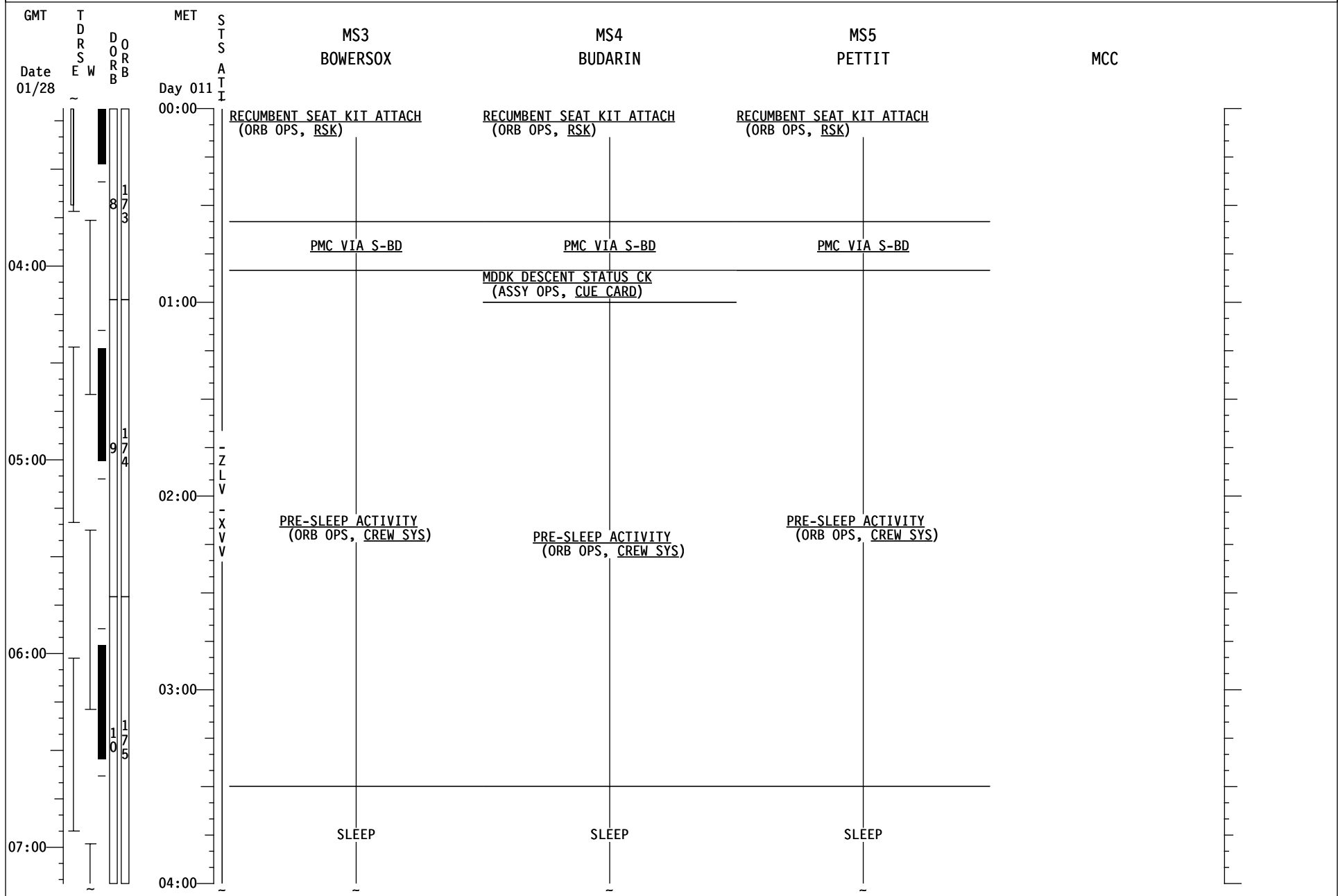
# STS-114 ULF1 (FD 12 )



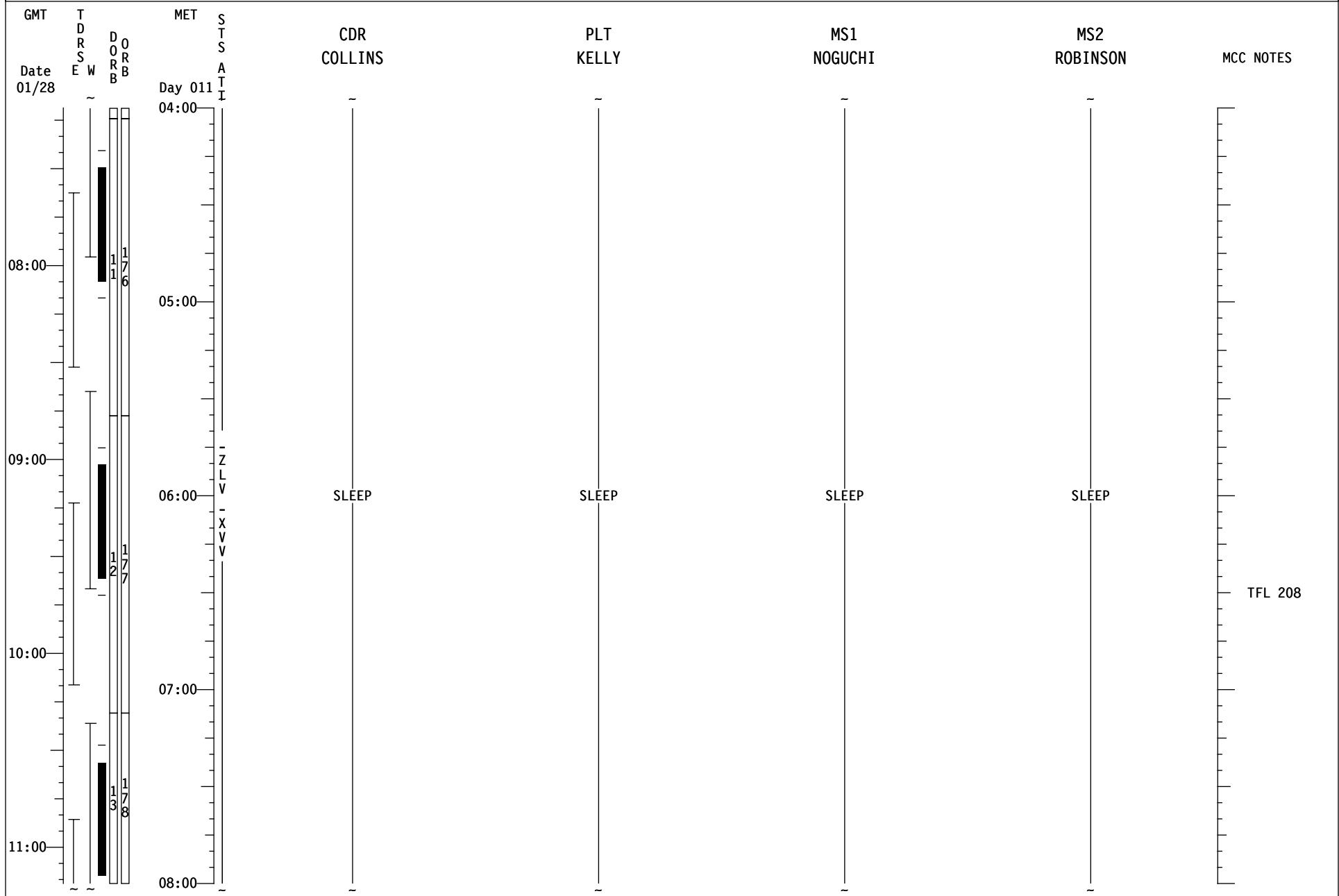
# STS-114 ULF1 (FD 12 )



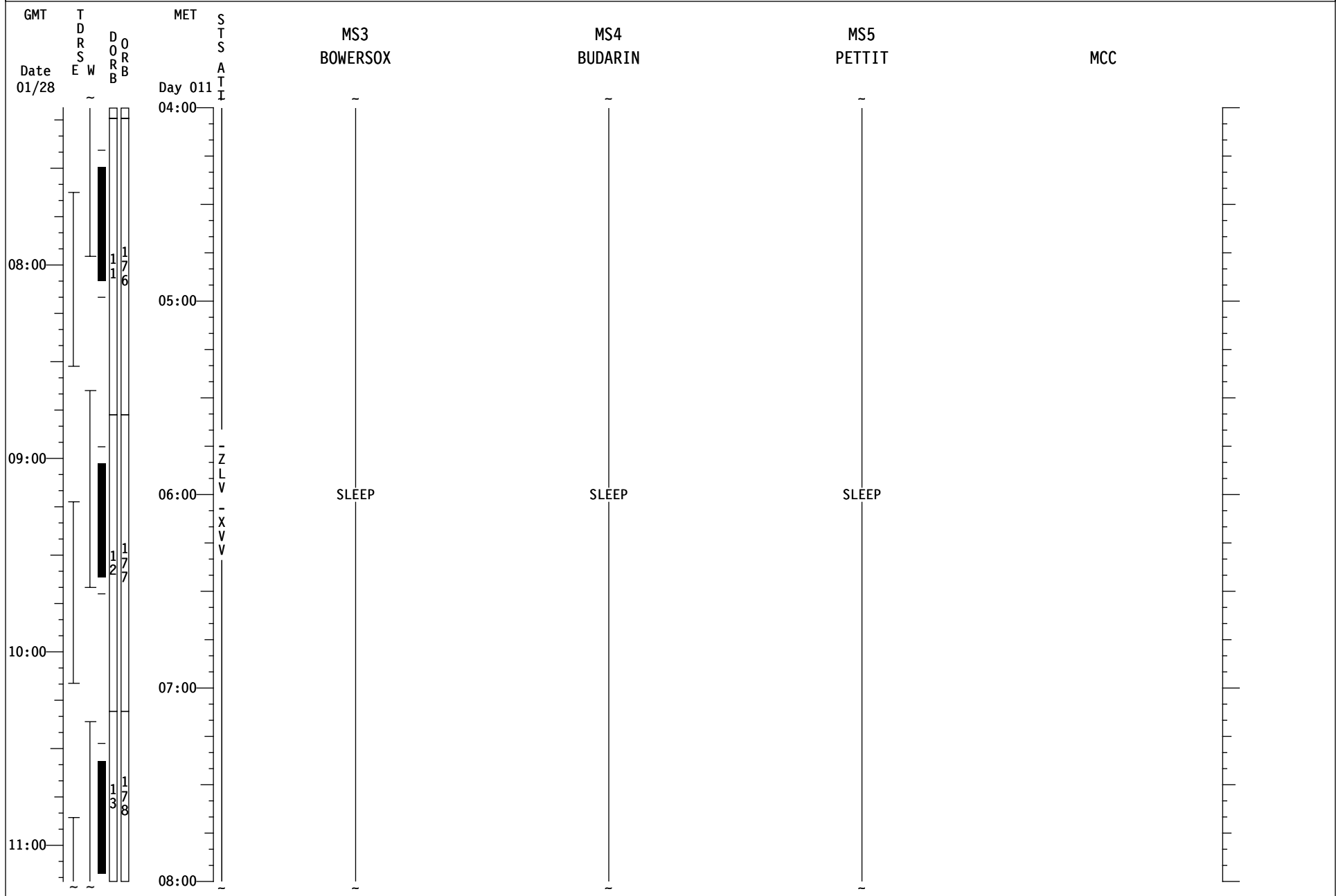
# STS-114 ULF1 (FD 12 )



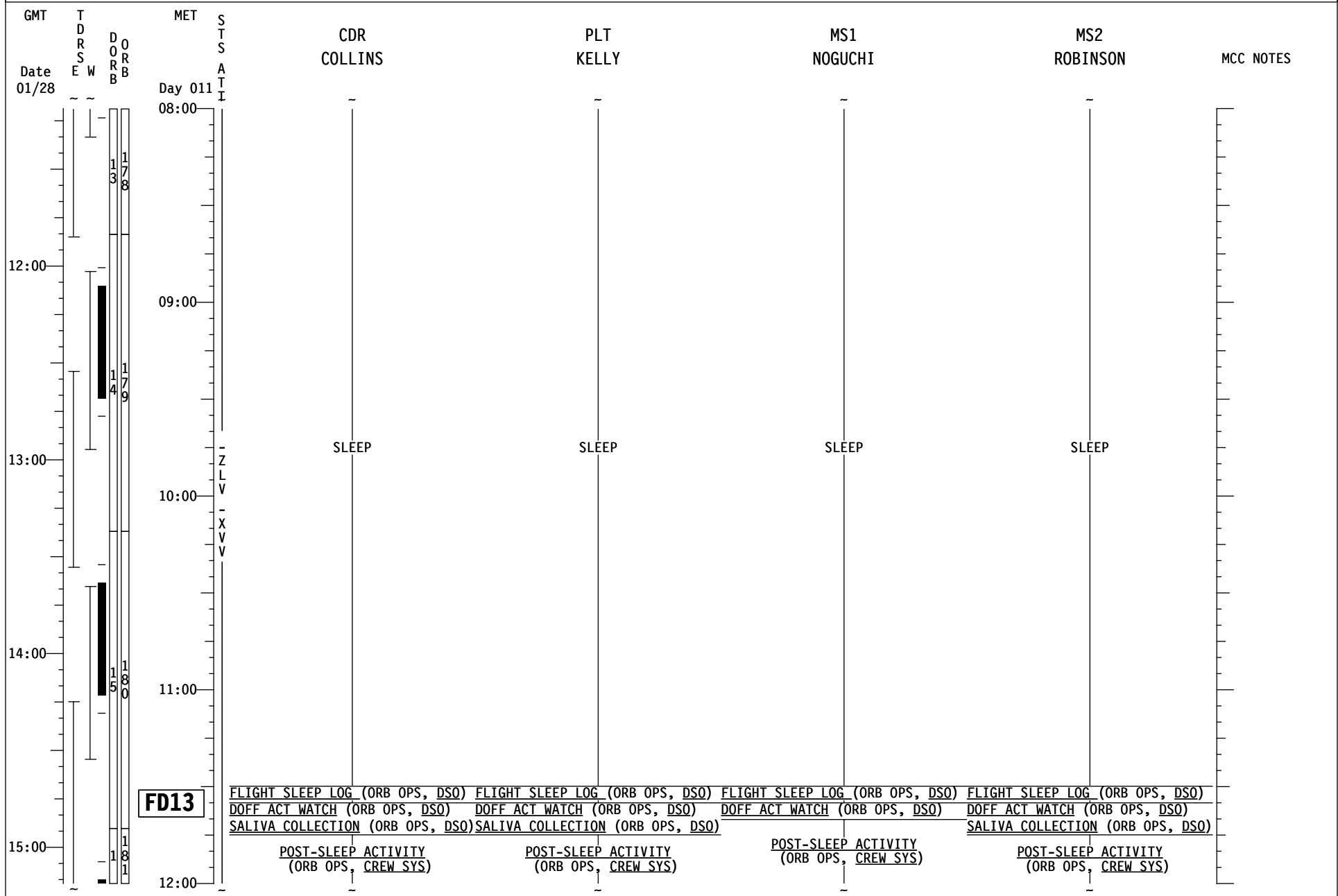
# STS-114 ULF1 (FD 12 )



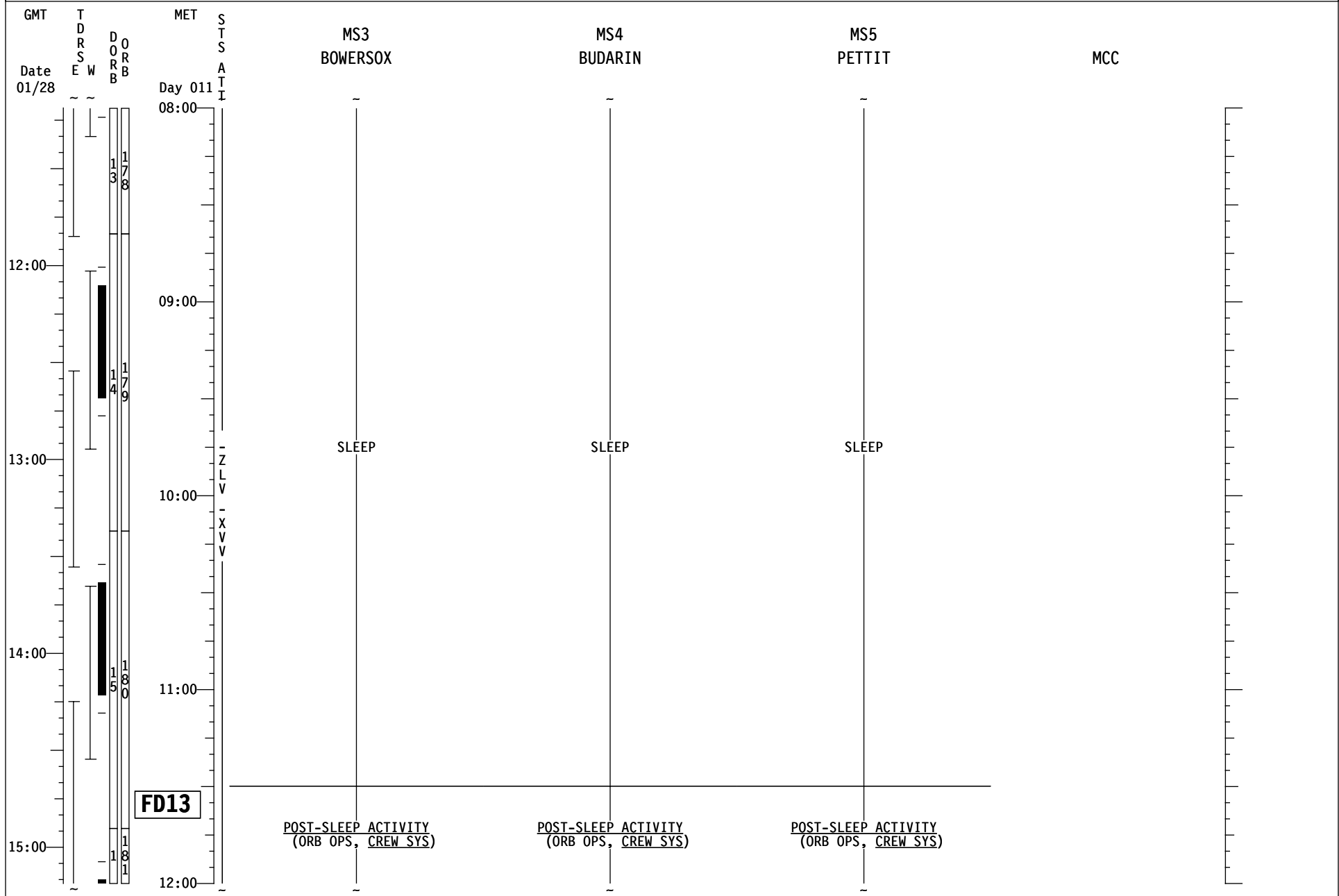
# STS-114 ULF1 (FD 12 )



# STS-114 ULF1 (FD 12 )

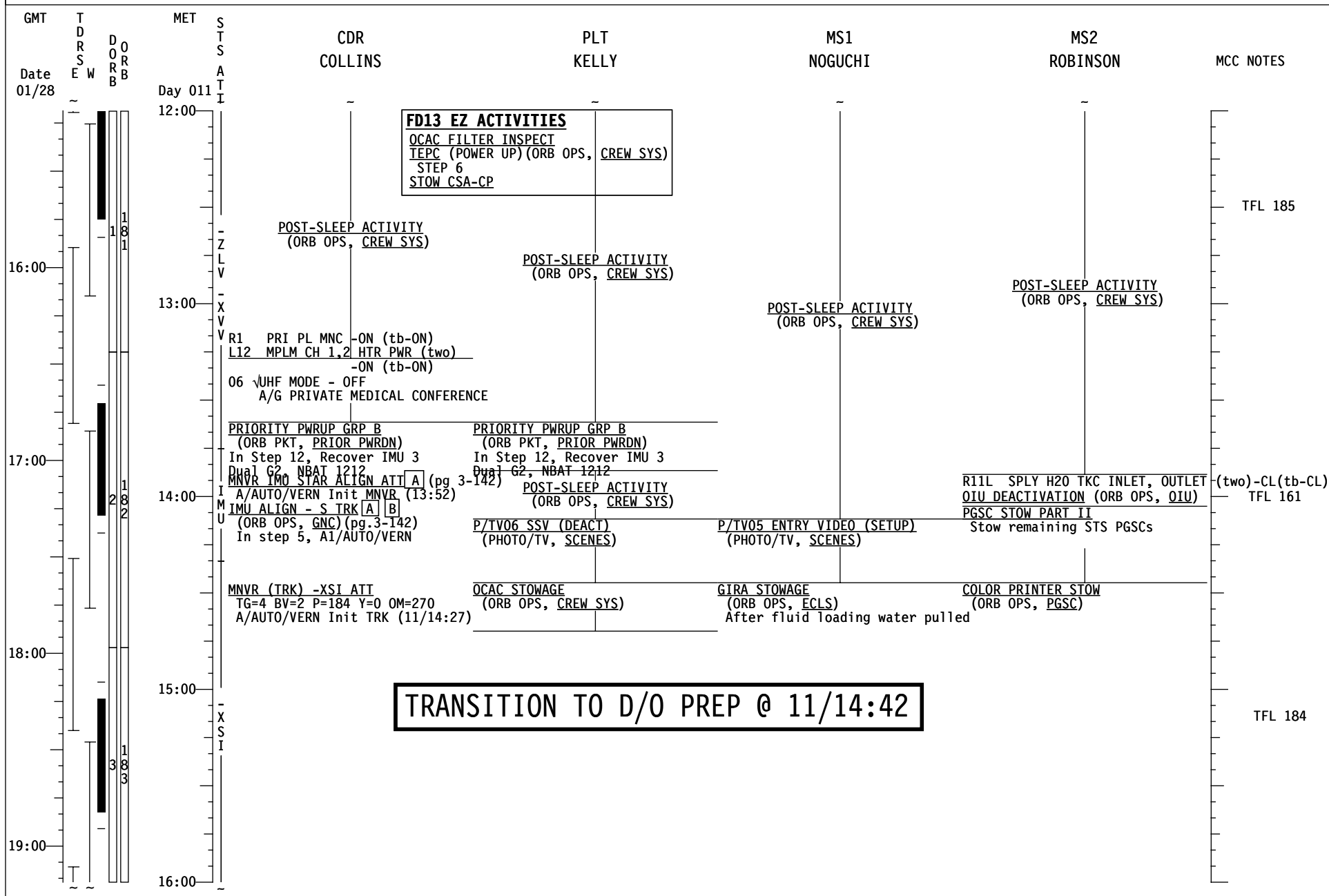


# STS-114 ULF1 (FD 13)



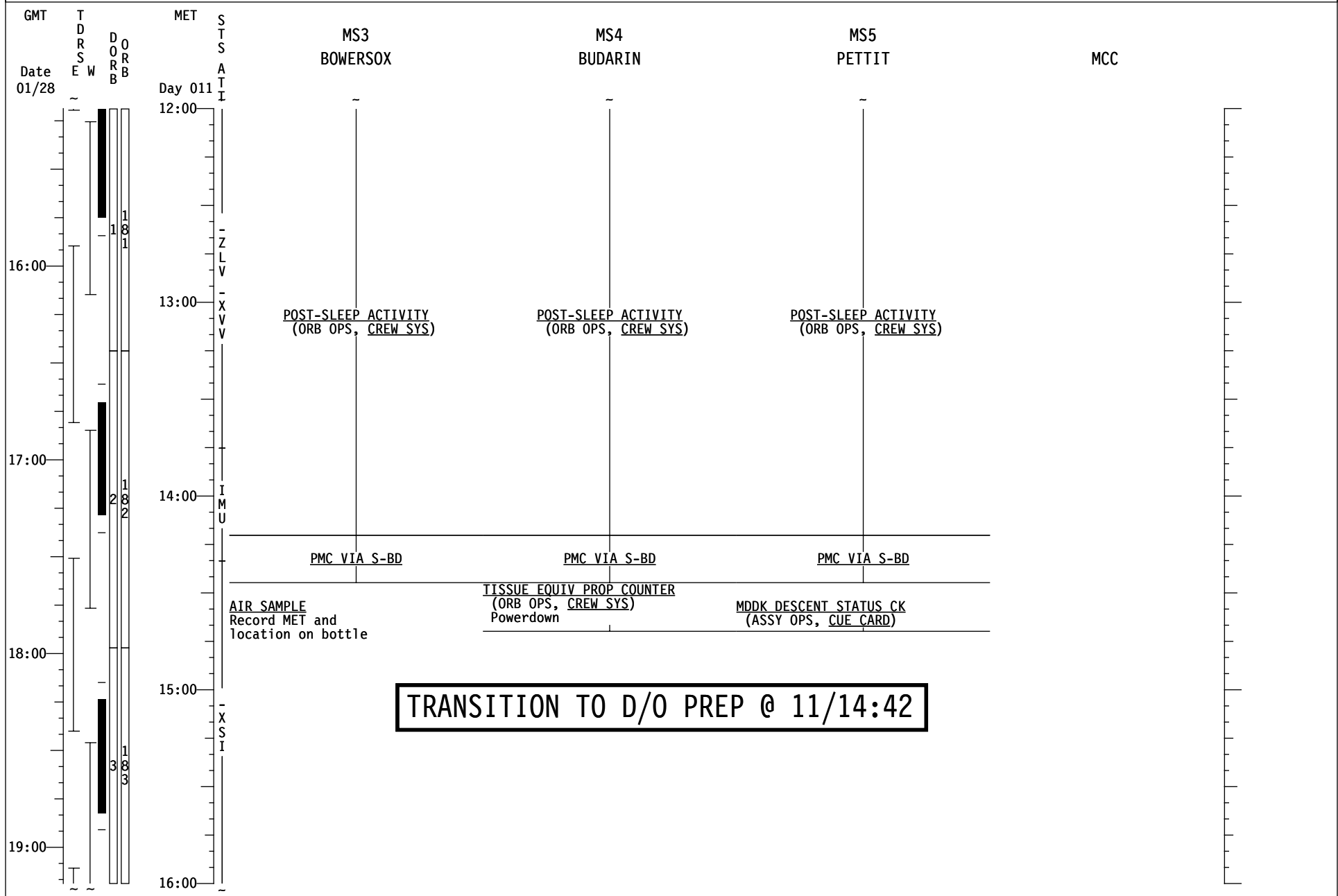
**FD13**

# STS-114 ULF1 (FD 13)





# STS-114 ULF1 (FD 13)



<b>A</b>	<b>IMU STAR ALIGN</b>		
ID: -Y: 56 SUHAIL MET (11/13:39 TO 11/14:31)			
-Z: 48 ZUBENESCHEM MET (11/13:46 TO 11/14:36)			
ANG DIFF: 85.2			
<u>DUAL S TRKR</u>		<u>2nd ATTITUDE</u>	
<u>ALIGNMENT</u>		<u>(SINGLE S TRKR)</u>	
		-Z: 56	-Y: 48
R	240	R	148 324
P	220	P	235 226
Y	25	Y	31 12
REQD ID:			
-Y: ____, -Z: ____, ANG ERR ____, ____, __			
ANG:                    1                    2                    3			
$\Delta X$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
$\Delta Y$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
$\Delta Z$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
EXECUTION TIME: __/__:__: MET			

<b>B</b>	<b>IMU STAR VERIFICATION</b>		
ID: -Y: 43 RASALHAGUE MET (11/13:49 TO 11/14:43)			
-Z: 28 AL NA'IR MET (11/14:13 TO 11/14:58)			
ANG DIFF: 85.0			
<u>DUAL S TRKR</u>		<u>2nd ATTITUDE</u>	
<u>ALIGNMENT</u>		<u>(SINGLE S TRKR)</u>	
		-Z: 43	-Y: 28
R	344	R	259 70
P	321	P	311 332
Y	352	Y	3 1
REQD ID:			
-Y: ____, -Z: ____, ANG ERR ____, ____, __			
ANG:                    1                    2                    3			
$\Delta X$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
$\Delta Y$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
$\Delta Z$	{ } ____, ____, __	{ } ____, ____, __	{ } ____, ____, __
<b>If any <math>\Delta X</math>, <math>\Delta Y</math>, OR <math>\Delta Z</math> &gt; 0.1 Check MCC</b>			
EXECUTION TIME: __/__:__: MET			

DAP TABLE

DAP TABLE

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<u>DAP</u>	<u>PURPOSE</u>	<u>DAP</u>	<u>PURPOSE</u>
A1	- Nominal	B1	- OMS & RCS Burns (ORB OPS)
A2	- PTC	B2	- Loss of VERN (Tail Only)
A3	- GG	B3	- Loss of VERN (All)
A4	- Pre/Post Deploy	B4	-
A5	- Loss of VERN (All)	B5	- COAS/HUD CAL
A6	- Loss of VERN (Tail Only)	B6	-
A7	- Rendezvous	B7	- Rendezvous
A8	- Terminal Phase	B8	- Terminal Phase
A9	- PROX OPS/Flyaround	B9	- PROX OPS/Flyaround
A10	- Docking	B10	- Docking
A11	- Auto Reboost	B11	-
A12	- Mated MNVRS & Att Hold (VRCS)	B12	- Mated MNVRS & Att Hold (PRCS)
A13	- Shuttle A/L Depress Att Cntrl	B13	- Shuttle A/L Depress Rate Damping
A14	-	B14	-
A15	-	B15	-
CNTL ACC	= 0 Orbiter alone with unloaded RMS		
	= 1 Mated Control - VRCS & Shuttle A/L Pressurized		
	= 2 Mated Control - ALT & Shuttle A/L Pressurized		
	= 3 Mated Control - VRCS & Shuttle A/L Depressurized		
	= 4 Mated Control - ALT & Shuttle A/L Depressurized		
	= 5 Not used		
	= 6 Not used		
	= 7 Not used		
	= 8 Not used		
	= 9 Not used		

DAPs for mated operations are based on analysis from GNC, PDRS, and C. S. Draper Labs

UNIV PTG	
TGT ID = 1	Orbiting Vehicle
= 2	Earth Center
= 3	Earth Target
	Input LAT ( $\pm 90$ )
	LON ( $\pm 180$ , + = Earth)
	ALT (-3444.0 to 20000.0 nm)
= 4	Sun Center
= 5	Celestial Target
	Input RA (0-359.99)
	DEC ( $\pm 90$ )
= 11 - 10	Nav Stars
BODY VECT = 1	+X*
= 2	-X*
= 3	-Z*
= 4	-Y Star Tracker*
= 5	Selectable
	Input P (0-359.99)
	Y (270-359.99,0-90)
* Input OM →	OM (0-359.99)
MON AXIS = 1	+X
= 2	-X

STS-114 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
<b>PRI</b>									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	0.30	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
<b>ALT</b>									
RATE DB	18(58)	0.200	0.200	0.070	0.200	0.070	0.070	0.100	0.100
JET OPT	19(59)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20(60)	2	2	1	2	1	1	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23(63)	0.2000	0.4000	0.0080	0.2000	0.0500	0.0500	0.0160	0.0500
ATT DB	24(64)	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26(66)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.050
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

STS-114 DAP A9 THROUGH A13 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13
<b>PRI</b>						
ROT RATE	10(50)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>	<b>0.1000</b>
ATT DB	11(51)	1.00	0.50	<b>15.00</b>	5.00	5.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.20
ROT PLS	13(53)	0.100	0.100	0.100	<b>0.040</b>	<b>0.040</b>
COMP	14(54)	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
Y OPTION	16(56)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
TRAN PLS	17(57)	0.050	0.050	0.100	<b>0.010</b>	<b>0.100</b>
<b>ALT</b>						
RATE DB	18(58)	0.100	0.100	<b>0.070</b>	<b>0.070</b>	<b>0.070</b>
JET OPT	19(59)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
# JETS	20(60)	2	2	<b>3</b>	<b>3</b>	<b>3</b>
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	<b>12.00</b>	<b>12.00</b>	<b>11.04</b>
<b>VERN</b>						
ROT RATE	23(63)	0.1300	0.0500	<b>0.1000</b>	<b>0.2000</b>	<b>0.1000</b>
ATT DB	24(64)	1.000	0.500	<b>5.000</b>	<b>1.000</b>	<b>3.000</b>
RATE DB	25(65)	.020	.020	<b>.050</b>	<b>.020</b>	<b>.080</b>
ROT PLS	26(66)	0.050	0.050	0.010	0.010	<b>0.002</b>
COMP	27(67)	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	<b>1,2*</b>	<b>1,2*</b>	<b>3,4**</b>
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	AUTO REBOOST	MATED STACK AND RMS OPS	A/L DEPRESS ATTITUDE CONTROL

**BOLD-ITALIC** indicate a change from the I-load

\* 1 for Config 3&4, 2 for Config 1&2

\*\* 3 for VERN, 4 for ALT PRCS

STS-114 DAP B1 THROUGH B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
<b>PRI</b>									
ROT RATE	10(50)	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.0500
ATT DB	11(51)	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
Y OPTION	16(56)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	17(57)	0.100	0.020	0.020	0.020	0.020	0.020	0.050	0.050
<b>ALT</b>									
RATE DB	18(58)	0.200	0.070	0.070	0.100	0.200	0.200	0.100	0.100
JET OPT	19(59)	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	20(60)	2	1	1	2	2	2	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23(63)	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.0500
ATT DB	24(64)	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	26(66)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.020
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE



STS-107 DAP B9 THROUGH B13 CONFIGURATIONS

	ITEM #	B9	B10	B12	B13
<b>PRI</b>					
ROT RATE	10(50)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>
ATT DB	11(51)	1.00	0.50	<b>5.00</b>	<b>40.00</b>
RATE DB	12(52)	0.10	0.10	0.20	0.20
ROT PLS	13(53)	0.040	0.040	0.040	0.040
COMP	14(54)	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
Y OPTION	16(56)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
TRAN PLS	17(57)	0.010	0.010	<b>0.010</b>	<b>0.010</b>
<b>ALT</b>					
RATE DB	18(58)	0.100	0.100	<b>0.070</b>	<b>0.070</b>
JET OPT	19(59)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
# JETS	20(60)	2	2	<b>3</b>	<b>3</b>
ON TIME	21(61)	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	<b>11.04</b>	<b>11.04</b>
<b>VERN</b>					
ROT RATE	23(63)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>
ATT DB	24(64)	1.000	0.500	<b>3.000</b>	<b>40.000</b>
RATE DB	25(65)	.020	.020	<b>.050</b>	<b>.080</b>
ROT PLS	26(66)	0.020	0.020	0.002	0.002
COMP	27(67)	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	<b>2</b>	<b>3,4*</b>
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	MATED STACK AND RMS OPS	A/L DEPRESS RATE DUMPING

**BOLD-ITALIC** indicate a change from the I-load

\* 3 for VERN, 4 for ALT PRCS

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ATTITUDE TIMELINE

ATTITUDE  
TIMELINE

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
1 000/01:00:00 M  017/04:11:13 G				STS-114 Launch Jan 2003  GMTLO: 017/03:11:13
2 000/01:12:00 M 19:44  017/04:23:13 G 30:57	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00  MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070  EARTH R 0 P 90 $\beta = 23$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV PLBD Opening
3 000/02:50:00 M 03:00:13  017/06:01:13 G 11:26	M50 (CALC) INRTL R = 230.00 MNVR P = 195.00 PYR Y = 309.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 26 P 72 $\beta = 24$	+X PYR R = 179.54 P = 344.11 Y = 359.86  LVLH 000/03:09:17 M 017/06:20:30 G	OMS3 Posi Heads Down  TIG 03:09  DV= 151
4 000/03:15:00 M  017/06:26:13 G		RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 97 $\beta = 24$	LVLH R=179.54 HOLD P= 7.31 Y=359.82	LVLH Hold between burns
5 000/03:45:00 M 50:10  017/06:56:13 G 07:01:23	M50 (CALC) INRTL R = 131.00 MNVR P = 13.00 PYR Y = 52.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 154 P 110 $\beta = 24$	+X PYR R = 179.87 P = 344.37 Y = 359.97  LVLH 000/03:55:04 M 017/07:06:17 G	NC-1 Posi Heads Down OMS TIG 03:55  DV= 72
6 000/04:00:00 M 15:00  017/07:11:13 G 26:13	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 24$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
7 000/17:15:00 M 29:58  017/20:26:13 G 41:11	M50 (CALC) INRTL R = 135.00 MNVR P = 8.00 PYR Y = 52.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 153 P 110 $\beta = 25$	+X PYR R = 179.62 P = 343.87 Y = 0.01  LVLH 000/17:38:41 M 017/20:49:54 G	NC-2 Posi Head Down OMS TIG 17:38  DV= 8
8 000/17:45:00 M 18:00:00  017/20:56:13 G 21:11:13	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 25$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
9 000/21:04:37 M  018/00:15:50 G				NPC No Maneuver Multi-Axis RCS TIG 21:04  DV= 1.6
10 000/21:10:00 M  018/00:21:13 G	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 26$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV  *placeholder* (if mnvr for burn becomes needed)

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE

Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
11 001/00:55:00 M 01:09:59  018/04:06:13 G 21:12	M50 (CALC) INRTL R = 132.00 MNVR P = 13.00 PYR Y = 47.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 153 P 104 $\beta = 26$	+X PYR R = 180.23 P = 347.87 Y = 0.18  LVLH 001/01:15:59 M 018/04:27:12 G	NC-3 +X RCS Posi Heads Down TIG 01:15  DV= 3
12 001/01:25:00 M 39:59  018/04:36:13 G 51:12	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 26$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV   ** future load ** ** next mnvr **
13 001/13:20:00 M 27:30  018/16:31:13 G 38:43	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 27$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Simo Dump  **mnvr future loaded night before**
14 001/15:48:00 M   018/18:59:13 G				NH NO BURN  *placeholder* TIG 15:48  DV= 0
15 001/15:55:00 M   018/19:06:13 G		RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 27$	LVLH R= 0.00 HOLD P=180.00 Y= 90.00	LVLH Hold between burns  *placeholder* (if NH becomes burn)
16 001/16:20:00 M 33:13  018/19:31:13 G 44:26	M50 (CALC) INRTL R = 302.00 MNVR P = 31.00 PYR Y = 23.00  MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100  SUN R 332 P 78 $\beta = 27$	+X PYR R = 359.72 P = 16.26 Y = 0.07  LVLH 001/16:31:57 M 018/19:43:10 G	NC-4 Posi Head Up OMS TIG 16:31  DV= 38
17 001/16:40:00 M 44:35  018/19:51:13 G 55:48	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00  MNVR B7/AUTO/ALT HOLD (same)	RATE 0.5000 DB AT 2.00 DB RT 0.100  EARTH R 307 P 0 $\beta = 27$	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT TRK
18 001/16:45:00 M 17:26:09  018/19:56:13 G 20:37:22	LVLH TRACK TGT = 2 P = 340.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0081 DB AT 1.000 DB RT 0.020  EARTH R 180 P 20 $\beta = 27$	LVLH R= 0.00 P=290.00 Y= 0.00	-Z TGT TRK
19 001/17:26:30 M 55:14  018/20:37:43 G 21:06:27	LVLH TRACK TGT = 2 P = 355.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0087 DB AT 1.000 DB RT 0.020  EARTH R 180 P 5 $\beta = 27$	LVLH R= 0.00 P=275.00 Y= 0.00	-Z TGT TRK
20 001/17:56:00 M 18:01:45  018/21:07:13 G 12:58	M50 (CALC) INRTL R = 303.00 MNVR P = 30.00 PYR Y = 24.00  MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100  SUN R 331 P 79 $\beta = 27$	+X PYR R = 0.17 P = 15.77 Y = 0.04  LVLH 001/18:04:10 M 018/21:15:23 G	TI Posi Head Up OMS TIG 18:04  DV= 8.9

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE

Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
21 001/18:09:00 M 17:40 018/21:20:13 G 28:53	LVLH TRACK TGT = 2 P = 355.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.2300 DB AT 1.000 DB RT 0.020 EARTH R 180 P 5 $\beta = 27$	LVLH R= 0.00 P=275.00 Y= 0.00	-Z TGT TRK
22 001/18:18:00 M 27:48 018/21:29:13 G 39:01	LVLH TRACK TGT = 2 P = 350.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0085 DB AT 1.000 DB RT 0.020 EARTH R 180 P 10 $\beta = 27$	LVLH R= 0.00 P=280.00 Y= 0.00	-Z TGT TRK
23 001/18:28:00 M 41:53 018/21:39:13 G 53:06	LVLH TRACK TGT = 2 P = 340.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0120 DB AT 1.000 DB RT 0.020 EARTH R 180 P 20 $\beta = 27$	LVLH R= 0.00 P=290.00 Y= 0.00	-Z TGT TRK
24 001/18:42:00 M 19:00:07 018/21:53:13 G 22:11:20	LVLH TRACK TGT = 2 P = 315.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0230 DB AT 1.000 DB RT 0.020 EARTH R 180 P 45 $\beta = 27$	LVLH R= 0.00 P=315.00 Y= 0.00	-Z TGT TRK
25 001/19:01:00 M 08:35 018/22:12:13 G 19:48	LVLH TRACK TGT = 2 P = 290.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0550 DB AT 1.000 DB RT 0.020 EARTH R 180 P 70 $\beta = 28$	LVLH R= 0.00 P=340.00 Y= 0.00	-Z TGT TRK
26 001/19:10:00 M 16:40 018/22:21:13 G 27:53	LVLH TRACK TGT = 2 P = 270.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A8/AUTO/VERN HOLD A7/AUTO/VERN	RATE 0.0500 DB AT 1.000 DB RT 0.020 EARTH R 180 P 90 $\beta = 28$	LVLH R= 0.00 P= 0.00 Y= 0.00	+ZLV +XVV Establish RBAR
27 001/19:30:00 M 41:40 018/22:41:13 G 52:53	LVLH TRACK TGT = 2 P = 179.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A9/AUTO/PRI HOLD (same)	RATE 0.1300 DB AT 1.00 DB RT 0.10 EARTH R 0 P 179 $\beta = 28$	LVLH R= 0.00 P= 91.00 Y= 0.00	-XLV +ZVV TORVA Transition from +RBar to +VBar
28 001/20:20:00 M 018/23:31:13 G	FREE DRIFT Config DAP: A12 for Att. Cntrl			DOCKING 01/20:25 ISS (0,0,0)
29 001/20:45:00 M 48:53 018/23:56:13 G 019/00:00:06	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 356.00 OM = 1.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 350 P 156 $\beta = 28$	ISS YPR R = 355.62 P = 23.94 Y = 359.22 LVLH 001/21:00:00 M 019/00:11:13 G	BIAS -XLV +ZVV Approx ISS TEA ISS (-1,24,-5) ORB R = 0.71 LVLH P = 113.99 Y = 355.94
30 004/14:50:00 M 15:14:00 021/18:01:13 G 25:13	LVLH TRACK TGT = 2 P = 300.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 180 P 60 $\beta = 31$	LVLH R= 0.00 P=330.00 Y= 0.00	BIAS +XLV -ZVV Reboost Config 4

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
31 004/16:30:00 M 54:00 021/19:41:13 G 20:05:13	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 356.00 OM = 1.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 350 P 156 $\beta = 31$	ISS YPR R = 355.62 P = 23.94 Y = 359.22 LVLH 004/16:30:00 M 021/19:41:13 G	BIAS -XLV +ZVV Approx ISS TEA ISS (-1,24,-5) ORB R = 0.71 LVLH P = 113.99 Y = 355.94
32 004/21:20:00 M 35:11 022/00:31:13 G 46:24	LVLH TRACK TGT = 2 P = 155.00 BV = 5 Y = 0.00 OM = 270.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 155 $\beta = 31$	LVLH R= 90.00 P= 90.00 Y= 25.00	BIAS -XLV +YVV Simo Dump ISS (-90,25,0)
33 004/23:15:00 M 30:11 022/02:26:13 G 41:24	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 356.00 OM = 1.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 350 P 156 $\beta = 31$	ISS YPR R = 355.62 P = 23.94 Y = 359.22 LVLH 004/23:15:00 M 022/02:26:13 G	BIAS -XLV +ZVV Approx ISS TEA ISS (-1,24,-5) ORB R = 0.71 LVLH P = 113.99 Y = 355.94
34 006/15:45:00 M 16:11:40 023/18:56:13 G 19:22:53	LVLH TRACK TGT = 2 P = 356.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 180 P 4 $\beta = 31$	LVLH R= 0.00 P=274.00 Y= 0.00	BIAS +XLV -ZVV Reboost Config 3
35 006/17:25:00 M 51:40 023/20:36:13 G 21:02:53	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 356.00 OM = 1.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 350 P 156 $\beta = 31$	ISS YPR R = 355.62 P = 23.94 Y = 359.22 LVLH 006/17:00:00 M 023/20:11:13 G	BIAS -XLV +ZVV Approx ISS TEA ISS (-1,24,-5) ORB R = 0.71 LVLH P = 113.99 Y = 355.94
36 006/22:15:00 M 30:11 024/01:26:13 G 41:24	LVLH TRACK TGT = 2 P = 155.00 BV = 5 Y = 0.00 OM = 270.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 155 $\beta = 31$	LVLH R= 90.00 P= 90.00 Y= 25.00	BIAS -XLV +YVV Supply Dump ISS (-90,25,0)
37 007/00:35:00 M 50:11 024/03:46:13 G 04:01:24	COE (CALC) TGT = 2 P = 156.00 BV = 5 Y = 356.00 OM = 1.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 350 P 156 $\beta = 31$	ISS YPR R = 355.62 P = 23.94 Y = 359.22 LVLH 007/01:35:00 M 024/04:46:13 G	BIAS -XLV +ZVV Approx ISS TEA ISS (-1,24,-5) ORB R = 0.71 LVLH P = 113.99 Y = 355.94
38 009/17:20:00 M 24:03 026/20:31:13 G 35:16	LVLH TRACK TGT = 2 P = 180.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 76 P 180 $\beta = 27$	LVLH R= 0.00 P= 90.00 Y= 0.00	-XLV +ZVV Prep for Undock ISS (0,0,0) Note:BV=5 keeps w RNDZ/Flyaround
39 009/18:20:00 M 026/21:31:13 G	FREE DRIFT for Undocking			UNDOCK 09/18:24
40 009/19:07:00 M 026/22:18:13 G	LVLH FREE ROTATION ROTR ABOUT +Y AXIS RATE=0.130 MNVR A9/LVLH/VERN HOLD (same)	RATE 0.1300 DB AT 1.000 DB RT 0.020 $\beta = 27$	LVLH R= 0.00 P= 90.00 Y= 0.00	FLY AROUND

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MEAN OF 1950 AND PYR EULER SEQUENCE



Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
41 009/20:04:42 M  026/23:15:55 G	HOLD A9/LVLH/VERN	RATE 0.1300 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 27$	LVLH R= 0.00 HOLD P=180.06 Y= 0.00	LVLH HOLD  FINAL SEP: TIG: 20:08
42 009/20:15:00 M 22:30  026/23:26:13 G 33:43	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 27$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV  post sep for: Simo Dump Init: 22:15
43 010/00:35:00 M 42:30  027/03:46:13 G 53:43	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 26$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
44 011/13:55:00 M 14:07:54  028/17:06:13 G 19:07	INRTL R = 240.00 MNVR P = 220.00 Y = 25.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 52 P 156 $\beta = 22$	-Y: 56 SUHAIL 13:39 - 14:31  -Z: 48 ZUBENESCHEM 13:46 - 14:36	IMU ALIGN  -Y: 56 -Z: 48  PAIR AOS: 13:46 PAIR LOS: 14:31
45 011/14:10:00 M 22:14  028/17:21:13 G 33:27	INRTL R = 344.00 MNVR P = 321.00 Y = 352.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 329 P 68 $\beta = 22$	-Y: 43 RASALHAGUE 13:49 - 14:43  -Z: 28 AL NA'IR 14:13 - 14:58	VERIFICATION  -Y: 43 -Z: 28  PAIR AOS: 14:13 PAIR LOS: 14:43
46 011/14:30:00 M 41:00  028/17:41:13 G 52:13	TGT= 4 BV = 5 P = 184.00 Y = 0.00 OM = 270.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 180 P 176 $\beta = 22$	INRTL R=124.92 P=210.61 Y= 43.35  RA= 310.060 DEC= -18.363S	-XSI
47 011/16:17:00 M 27:07  028/19:28:13 G 38:20	INRTL R = 63.00 MNVR P = 130.00 Y = 335.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 164 P 80 $\beta = 22$		COMM
48 011/18:20:00 M 24:48  028/21:31:13 G 36:01	M50 (CALC) INRTL R = 1.00 MNVR P = 269.00 PYR Y = 38.00  MNVR TRN/AUTO/PRI HOLD (same)	RATE 0.5000 DB AT 3.50 DB RT 0.20  SUN R 328 P 135 $\beta = 22$	+X PYR R = 0.11 P = 192.26 Y = 359.67  LVLH 011/18:42:00 M 028/21:53:13 G	D/O BURN Retro Head Down Dual OMS  KSC TIG 11/18:42

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FLIGHT PLAN NOTES

FLIGHT PLAN NOTES  
(CONSTRAINTS AND GUIDELINES)

A. FLIGHT DESCRIPTION

Orbiter: OV104 Atlantis  
 Inclination: 51.6°  
 Beta Angle (L/O, max, EOM+2): +23.7°, +31.9°, 12.9°  
 Insertion/Docking Altitude: 122/205 nautical miles  
 Duration: 12+0+2 days

B. SHUTTLE AND STATION CREW

CDR – Eileen Collins  
 PLT – James Kelly  
 MS1 – Soichi Noguchi  
 MS2 – Steve Robinson

UP:  
 MS3 (CDR, Exp 7) – Yuri Malenchenko  
 MS4 (FE-2, Exp 7) – Sergei Moschenko  
 MS5 (FE-1, Exp 7) – Edward Lu

DOWN:  
 MS3 (CDR, Exp 6) – Ken Bowersox  
 MS4 (FE-1, Exp 6) – Nikolai Budarin  
 MS5 (FE-2, Exp 6) – Donald Pettit

C. MAJOR EVENTS

<u>EVENT</u>	<u>FD</u>	<u>MET</u>	<u>CST DATE</u>	<u>CST</u>	<u>GMT</u>
Launch	1	00/00:00	1/16/03	016/21:11	017/03:11
OMS-2	1	00/00:38	1/16/03	016/21:49	017/03:49
OMS-3	1	00/03:09	1/17/03	017/00:20	017/06:20
NC-1	1	00/03:55	1/17/03	017/01:06	017/07:06
NC-2	2	00/17:39	1/17/03	017/14:50	017/20:50
NPC	2	00/21:05	1/17/03	017/18:16	018/00:16
NC-3	2	01/01:16	1/17/03	017/22:27	018/04:27
NC-4	3	01/16:32	1/18/03	018/13:43	018/19:43
Ti	3	01/18:04	1/18/03	018/15:15	018/21:15
ISS Docking	3	01/20:25	1/18/03	018/17:36	018/23:36
ISS Ingress	3	01/22:30	1/18/03	018/19:41	019/01:41
MPLM Install on ISS	4	02/16:00	1/19/03	019/13:11	019/19:11
EVA 1	5	03/17:45	1/20/03	020/14:56	020/20:56
Reboost 1	6	04/15:30	1/21/03	021/12:41	021/18:41
EVA 2	7	05/17:45	1/22/03	022/14:56	022/20:56
Reboost 2	8	06/16:30	1/23/00	023/13:41	023/19:41
EVA 3	9	07/17:45	1/24/03	024/14:56	024/20:56
MPLM Berth in STS	10	08/23:00	1/25/03	025/20:11	026/02:11
ISS Egress	11	09/16:00	1/26/03	026/13:11	026/19:11
Undock	11	09/18:24	1/26/03	026/15:35	026/21:35
Sep	11	09/20:08	1/26/03	026/17:19	026/23:19
Deorbit Burn	13	11/18:42	1/28/03	028/15:53	028/21:53
Landing	13	11/19:46	1/28/03	028/16:58	028/22:58

## D. LANDING OPPORTUNITIES

		<u>Landing Orbit</u>	<u>Site</u>	<u>CST</u>	<u>MET</u>
Nominal	Primary	185	KSC	028/16:58	11/19:46
	1 Rev Late	186	KSC	028/18:34	11/21:23
	Weather Alt.	187	EDW	028/20:04	11/22:53
EOM +1	Primary	200	KSC	029/15:56	12/18:45
	1 Rev Late	201	KSC	029/17:32	12/20:21
	Weather Alt.	202	EDW	029/19:02	12/21:51
EOM +2	Primary	215	KSC	030/14:54	13/17:43
	1 Rev Late	216	KSC	030/16:30	13/19:19
	Weather Alt.	217	EDW	030/18:01	13/20:50

## E. COMMUNICATIONS

The Summary Timeline contains several data bands for ground site and TDRS events. The TDRS band reflects the three TDRS satellites that will be used for orbiter coverage (East, West, and Z) and their longitudinal position. The data shown contain Ku-band coverage (unshaded bars), as well as the TDRS SHO schedule (solid bars). The SHO schedule depicts early handovers and Z satellite coverage.

The RS band contains the AOS/LOS of the Russian ground sites used by the FGB and SM. The data displayed is a summation of the AOS/LOS times of all the ground sites on each respective pass.

### Shuttle

TDRS Support: East (47°), West (171°), Z (-275°)  
 US Ground Sites: MIL, DFR, and WLP  
 Contingency RTS: DGS, GTS, HTS, CTS, OTS, VTS, and NHS

### ISS

TDRS Support: East (47°), West (171°), Z (-275°)  
 US Ground Sites: MIL, WLP, and DFR  
 Russian Ground Sites: DJS, PPK, ULD, BRN, SPB, KLP, SHK, and USK

## F. PAYLOADS

### 1. LAUNCH/RETURN PACKAGE (LP/RP) ULF-1

The ISS ULF-1 LP consists of the MPLM, the External Stowage Platform 2 (ESP2), two Assembly Power Converter Units (APCUs), and ISSP experiments, equipment, supplies, and crew rotation equipment in the orbiter crew compartment.

The MPLM Cargo Element (CE) Flight Module-2 (FM-2) is a pressurized module that will carry to orbit four payload racks, four Resupply Stowage Platforms (RSPs), and three Resupply Stowage Racks (RSRs). The four payload racks are the Window Observational Research Facility (WORF), Express Transportation Rack (ETR), Minus Eighty-Degree Laboratory Freezer for ISS (MELFI), and Human Research Facility No. 2 (HRF 2). For ULF-1, the MPLM is configured in its passive configuration.

The ESP2 CE consists of the Unpressurized Cargo Pallet (UCP) and the Keel Yoke Assembly (KYA). The UCP will be deployed, while the KYA will be returned in the

orbiter payload bay. The UCP will carry to orbit four Video Stanchion Support Assemblies (VSSAs) and two Orbital Replacement Units (ORUs): the Utility Transfer Assembly (UTA) and the Flex Hose Rotary Coupler (FHRC). An Extravehicular Activity (EVA)-removable cable harness is used to provide 120 V dc electrical power to the ESP2 CE heaters while installed in the orbiter payload bay.

Cargo/payload items will be carried in the orbiter crew compartment, including utilization payloads, EVA tools and equipment, crew rotation gear, and other ISS mission-unique support hardware.

The ISS middeck utilization experiments for ULF-1 LP are as follows:

- a. Commercial Protein Crystal Growth – High (CPCG-H)
- b. Protein Crystal Growth – Single Thermal Enclosure System 9 (PCG-STES) 9
- c. Advanced Astroculture – Growth Chamber (ADVASC-GC)
- d. Advanced Astroculture – Stowage 2 and 3 (ADVASC-S2, ADVASC-S3)
- e. Commercial Protein Crystal Growth – Video Locker (CPCG-VL)
- f. Human Research Facility – Increment 7 Media Kit (HRF-I7 Media)
- g. Human Research Facility – Increment 7 Renal Stone Potassium Citrate (K/CIT) Placebo Kit (HRF-RENTN17)

CPCG-H and PCG-STES 9 are powered on ascent.

The ISS ULF-1 RC in the payload bay consists of the MPLM with one payload rack (ETR), four RSPs, three RSRs, the ESP2 KYA, and two APCUs.

Cargo/payload items will also be returned in the orbiter crew compartment, including utilization payloads, EVA tools and equipment, crew rotation gear, and other ISS mission-unique support hardware.

The ISS middeck utilization experiments for ULF-1 RC are as follows:

- a. Human Research Facility – Middeck Items (HRF-MIDDECK)
- b. Microgravity Science Glovebox – Coarsening in Solid Liquid Mixtures – 2 (MSG-CSLM-2) Samples
- c. Zeolite Crystal Growth – Sample Storage (ZCG-SS)
- d. PCG-STES 10

PCG-STES 10 is powered during descent.



## G. DETAILED TEST OBJECTIVES (DTOS)

### 1. SINGLE STRING GLOBAL POSITIONING SYSTEM (DTO 700-14)

The purpose of this experiment is to demonstrate the performance and operations of the GPS during orbiter ascent, entry, and landing phases utilizing a modified military GPS receiver processor and the existing orbiter GPS antennas. The crew's involvement is limited to activation and deactivation only, and no PGSC is required for data recording.

### 2. CROSSWIND LANDING PERFORMANCE (DTO OF OPPORTUNITY) (DTO 805)

The purpose of this DTO of opportunity is to demonstrate the capability to perform a manually controlled landing in the presence of a crosswind. This DTO will be performed only if there is a steady state 90° crosswind component of 10 to 15 knots.

## H. ON-ORBIT DETAILED SUPPLEMENTAL OBJECTIVES (DSOS)

### 1. SLEEP/WAKE ACTIGRAPHY AND LIGHT EXPOSURE DURING SPACE FLIGHT (DSO 634)

The purpose of this DSO is to monitor sleep-wake activity and light exposure patterns obtained in-flight using state-of-the-art ambulatory technology. The crew is required to don an Actilight watch as soon as possible upon entering orbit and wear it continuously throughout the mission on their non-dominant wrists outside of their clothing/sleeve. The Actilight watch can be temporarily removed for activities such as EVAs. Subjects will also complete a short log within 15 min of final awakening every morning.

### 2. BIOAVAILABILITY AND PERFORMANCE EFFECTS OF PROMETHAZINE DURING SPACE FLIGHT (DSO 490B)

All participants will don the Actiwatch activity monitor as soon as possible on orbit, and will record sleep times throughout the mission.

### 3. MONITORING LATENT VIRUS REACTIVATION AND SHEDDING IN ASTRONAUTS (DSO 493)

The objective of this DSO is to determine the frequency of induced reactivation of latent viruses, latent virus shedding, and clinical disease after exposure to the physical, physiological, and psychological stressors associated with space flight. Participants will collect saliva samples at wakeup.

### 4. EDUCATIONAL ACTIVITIES (DSO 802)

The objective of this DSO is to conduct an in-flight live educational program via the Ku system. Students in Japan will ask the crew questions, and the crew will demonstrate the physics of Japanese toys in a microgravity environment. This DSO is sponsored by NASDA.

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# FLIGHT PLAN WALKTHROUGH (WITH RATIONALE)

## **Station Activities Performed Prior to Shuttle Docking**

- TBD

## **Generic Docked Activities**

- Transfer total of 12 CWCs. Approximately two Collapsible Water Containers (CWCs) are filled each docked day, one on days where a supply dump is scheduled.
- An estimated 82 man-hr are required for MPLM generic transfer, and 22 man-hr are required for MDDK transfer. Powered payload, MPLM rack, EVA equipment, and water bag transfer, as well as transfer briefings are scheduled separately from generic transfer.
- All nominal EVAs are performed using the ISS Airlock with both ISS and shuttle crew performing SSRMS and Airlock tasks. The shuttle crew is prime for all EVA tasks. MCC-H is prime for ISS commanding activities. EVAs 1 and 3 use METOX and EVA 2 uses LiOH due to its 7-hr length.
- The SRMS has been removed from the vehicle for weight savings and will not fly on STS-114. The SSRMS will be used for all MPLM and EVA robotics operations.
- There is a thermal flight rule that allows the stack to be out of the docked attitude for no more than 3 hr. A 4-hr attitude recovery is required before another < 3-hr excursion is allowed. In general, the reboosts are scheduled in the morning and the water dumps are scheduled in the afternoon after a 4-hr recovery.

## **Flight Day 1**

- Two OMS burns are required after OMS 2: OMS 3 and NC1.
- Setup completed for PGSCs (OCA Setup, PGSC Network Setup, Color Printer Assemble and Unstow).
- P/TV 17 Video Setup is scheduled. This activity sets up all standard use cameras that will be utilized throughout the flight, including SSV Setup. Additional time has been scheduled on FD02.
- APCU 1 is activated to support the MPLM Environment Checks. APCU 1 and 2 output relays are closed and the APCU 1 converter is powered on. With the APCU 1 output relay closed and the OIU activated, the ground team can partially activate the MPLM to monitor the MPLM environment. The MPLM data will be monitored as much as possible during the flight depending on which TFL is loaded (not all TFLs contain the MPLM data).
- The MPMs are deployed to provide MPLM clearance.
- Don actilight watches used for DSOs 634 and 490B.
- Status of the MDDK powered payloads is verified (PCG-STES 09 and CPCG-H). This activity will continue throughout the flight twice a day until the payloads are transferred to ISS.

## **Flight Day 2**

- DSO daily log is recorded and saliva sample is collected in Post Sleep. This will continue throughout the mission.
- Status of the MDDK powered payloads is verified (PCG-STES 09 and CPCG-H). This activity will continue throughout the flight twice a day until the payloads are transferred to ISS.
- Setup of Ergometer is accomplished.
- Checkout of the two EMUs and one Safer, and EMU Prep for Transfer will occur in preparation for EVA 1 on FD05. Two large EMUs will fly on the Shuttle and these will be transferred to ISS and used for the docked EVAs from the ISS airlock.
- Rendezvous prep activities including Rendezvous PGSC Setup, Rendezvous Tools Checkout, Centerline Camera Install, and Orbiter Docking System (ODS) Ring Extension are performed. Rendezvous burns NC2, NPC, and NC3 are scheduled.
- P/TV 17 Video Setup is completed.

- CWC fill equipment setup is performed so that CWC fills can begin immediately after docking.
- APCU 1 is activated to support the MPLM Environment Checks.
- CDR, PLT, MS3, and MS5 hold a Public Affairs Office (PAO) Event.
- Sleep is at MET 01/04:00, two hr earlier than launch day, to shift the crew for an early docking and set up the sleep cycle for landing.

### **Flight Day 3**

- Status of the MDDK powered payloads is verified (PCG-STES 09 and CPCG-H). This activity will continue throughout the flight twice a day until the payloads are transferred to ISS. A daily Lab Payload check will be performed for payloads on ISS.
- A supply/waste (simo) water dump is performed as close to docking as possible to minimize the amount of wastewater dumped during the docked mission. FDO would like this dump to be scheduled as close to the first rendezvous burn as possible to minimize trajectory dispersions. The maneuver for the dump was future loaded on FD02.
- The condensate collection hardware is set up and collection is initiated.
- The two EMUs are removed from the airlock and temp stowed prior to docking to facilitate Pressurized Mating Adapter (PMA) access/transfers after docking.
- The orbiter will dock with the ISS on daily orbit 4. Docking is not required to occur over a Russian Ground Site and there are no lighting constraints. After docking, a leak check will be performed on the ODS and hatches will be opened.
- The shuttle will then maneuver the stack into the nominal docking attitude (STS BIAS –XLV +ZVV) after damping rates. Once in attitude, attitude control will be handed over to ISS. ISS will maintain attitude control during the entire docked timeframe using the Lab Control Moment Gyros (CMGs). However, the shuttle will perform maneuvers to water dump and reboost attitudes if enough prop exists.
- The PGSC network is reconfigured from the rendezvous configuration to the EVA config after docking.
- ISS audio config is performed.
- CWC #1 is filled and transferred to the ISS.
- Exp 6 crewmembers will swap IELKs with their Exp 7 counterparts, after which the new IELKs are installed and checked out in the Soyuz. Crewmembers will also perform SOKOL Leak Checks. When these activities are completed, Exp 6 crewmembers are considered STS crewmembers and Exp 7 crewmembers are considered ISS crewmembers.
- Shuttle MDDK transfers begin.
- P/TV08 CBCS C/O is performed concurrently after CBCS power up. The CBCS (centerline camera) was installed on the Node Nadir hatch window prior to docking in preparation for the MPLM install on FD04.
- A Transfer Tagup between crewmembers and Transfer Call to MCC-H will be scheduled (for loadmaster PLT) every docked day starting 1.5 hr prior to Sleep.

### **Flight Day 4**

- Crew opens the petals for the N1 active CBM as early as possible prior to unberth. An ACBM seal inspection will occur during petal deploy using the SSRMS cameras. This ensures that no debris exists on the ACBM to hinder the installation of the MPLM. The SSRMS then grapples the MPLM in preparation for unberth.
- Just prior to unberth, the MPLM environment is checked via OIU and the ROEU (Remotely Operated Electrical Umbilical) is disconnected. Once ROEU disconnect is completed, the MPLM will be unberthed from the payload bay and installed onto the ISS. During MPLM unberth and in the low hover position, the STS CDR will use the PLB cameras to perform a PCB seal inspection. The PLT and MS2 will operate the SSRMS with Exp 6 CDR (Bowersox) assisting. The SSMRS will be maneuvered to the EVA 1 position after MPLM ungrapple.

- The bolts for the CBM are driven after MPLM installation is completed. Bolt loading must be completed before the vestibule can be pressurized. During this time the CBCS is removed and the equipment needed for Vestibule Config for Ingress will be set up.
- PLT and Exp 6 CDR continue with Vestibule Depress, Vestibule Config for Ingress, MPLM Activation Part I and Part II, MPLM Ingress, and MPLM Setup. The MISSE hardware will be transferred out of the MPLM for use during EVA 1.
- Transfer of N2 from the orbiter to the airlock High Pressure Gas Tanks (HPGT) will be initiated on FD04, and termination of the transfer will be performed approximately 45 hr later.
- CWC #2 and #3 are filled and transferred to ISS.
- PCG-STES 09 and CPCG-H powered payloads are transferred from the shuttle MDDK to ISS. One shuttle and one station crewmember are scheduled for each. CPCG will be activated on ISS within one hr after transfer, and PCG-STES 09 will be activated on ISS no earlier than 6 hr and no later than 24 hr after transfer.
- Shuttle MDDK transfers continue.
- Several activities are scheduled in the afternoon to prepare the EMUs and A/L equipment for EVA 1. The shuttle O2 system will be configured for use during EVA Prep prebreathe. The two EVs will familiarize themselves with Cycle/Ergometer Vibration Isolation System (CEVIS) as used during EVA Prep prebreathe. The EMUs are transferred to the ISS Airlock and reconfigured as necessary with parts from ISS. An EMU to Airlock interface check is performed, the Equipment Lock and EVA tools are configured, and the REBA hardware is checked out. P/TV18 Wireless Video setup is completed. A one-hr (or more) EVA procedure review is conducted between all crewmembers involved with the EVA including the EVs, IVs, and SSRMS operators.
- The CMG heater is turned on. Preflight predictions indicate that heaters for the CMG in the payload bay must be activated by 70 hr MET for thermal protection.
- A Transfer Tagup between crewmembers and Transfer Call to MCC-H will be scheduled (for loadmaster PLT) every docked day starting 1.5 hr prior to Sleep. These activities will also be scheduled for Exp 6 FE-2 on this day since the PLT will be busy with MPLM activities.

### **Flight Day 5**

- The DSO daily log is recorded and saliva sample is collected in Post Sleep. This will continue throughout the mission. On EVA days, the CDR has requested that the EVs not be scheduled for DSOs. They may participate if they desire.
- The PLT (loadmaster) will perform a transfer review every morning while docked to review the latest uplinked transfer list.
- The ISS exercise EVA protocol will be used to support the EVA. The two EVs will perform the required 10-min CEVIS exercise in the Lab while breathing pure O2 from the Shuttle, to purge N2 from their blood. The EVs and IVs will ingress the ISS Airlock and close the Node hatch. The EVs will continue to prebreathe pure O2 for a total of 80 min. The last 30 min of this time will include a 30-min Airlock depress to 10.2 PSI. The EVs will then doff the O2 mask and don the EMUs. The EMUs are then purged with pure O2 and the Airlock will be repressurized to 14.7. The Node hatch will then be opened. The EVs will perform a 60-min in-suit prebreathe followed by Crew Lock hatch closing, Crew Lock depress, and finally Post Depressurization where the EVA crew will go off the Service and Cooling Umbilical (SCU) and the Phase Elapse Time (PET) clock starts counting. Crew Lock Depress will utilize the depress pump down to 1.5 PSI. At 3 PSI, the Crew Lock valves will be opened to vacuum.
- After airlock depress, the EVs will egress and begin EVA setup. EVA 1 activities include:
  - Install ESP Attachment Device (ESPAD) to ISS Airlock, and berth the ESP-2 to the ESPAD and connect power cables. PLT will unlatch the PRLAs prior to ESP-2 unberth from the PLB. After ESP-2 install is complete, MCC-H will power up and check out the ESP heaters. ESP-2 contains critical spares.
  - Remove the MISSE Payload Experiment Carriers (PECs) 1 and 2 from the airlock and replace with PECs 3 and 4.

- o Install one Video System Support Assembly (VSSA) at the ISS external camera port #2 location. The Floating Potential Measurement Unit (FPMU) will be installed onto this VSSA during EVA 3.
- Prior to EVA SSRMS ops, the MT will be translated from worksite 4 to 6. This is in prep for EVA 3.
- EVA tasks will utilize the SSRMS (based on the Lab PDGF) for worksite access. Two Exp 7 crewmembers are prime SSRMS operators and one Exp 6 crewmember will assist. SSRMS operations begin 1.5 hr prior to egress to give the crew some stick time. The SSRMS will be maneuvered to the EVA 2 position after all EVA tasks are complete.
- After EVA Cleanup, the EVs will ingress the Crew Lock, perform Prepress (EVA crew back on SCU), close the EVA hatch, repress the Crew Lock, and begin Post EVA. H2O recharge will be delayed until the following day to maximize Presleep. The EMU batteries will be removed, the METOX will be replaced with LiOH, and the METOX regeneration and BSA battery charging will be initiated. The EVs will don their DSO watches.
- The three MPLM racks (WORF, MELFI, and HRF 2) will be transferred from the MPLM to the Lab. These rack transfers should not be performed during CEVIS Prebreathe ops or during EVA SSRMS ops due to spatial conflicts.
- All crewmembers not participating in the EVA activities are scheduled for handover if their counterpart is available, otherwise transfer of MPLM logistics.
- CWCs #4 and #5 are filled and transferred to the ISS.

### **Flight Day 6**

- Transfer of O2 from the orbiter to the airlock High Pressure Gas Tanks (HPGT) will be performed. O2 transfer will be terminated in the afternoon and the O2 system reconfigured back for EVA Prep prebreathe use.
- N2 Transfer will be terminated.
- Attitude control will be handed over to the shuttle and a PRCS +X with vernier pitch control (Config 4) reboost will be performed. After completion of the reboost, attitude control will be handed back to the ISS. This reboost is scheduled as a placeholder in the event enough prop exists.
- Shuttle mid-mission reconfigurations are completed.
- CWCs #6 is filled and transferred.
- EMU water recharge, EMU battery charge initiation (using the PSA in the ISS airlock), BSA battery termination, and METOX regeneration termination will be performed.
- One Russian PAO event, one US PAO event, and the change of command ceremony are scheduled.
- Handover and MPLM logistic transfers will continue.
- The crew will prepare for EVA 2 with Equipment Lock Prep and EVA Tool Config. A one-hr (or more) EVA procedure review is conducted between all crewmembers involved with the EVA including the EVs, IVs, and SSRMS operators.
- Attitude control will be handed over to the shuttle and a supply/waste (SIMO) water dump will be performed. After completion of the water dump, attitude control will be handed back to the ISS.

### **Flight Day 7**

- DSO daily log is recorded and saliva sample is collected in Post Sleep. This will continue throughout the mission. On EVA days, the CDR has requested that the EVs not be scheduled for DSOs. They may participate, however, if they desire.
- The second EVA is performed. EVA 2 is scheduled to be 7 hr in length. See the FD05 explanation of pre and post EVA activities. The EVA-specific tasks are:
  - o Perform the complete R&R of CMG-1. The failed CMG will be removed and replaced with a spare CMG, which is launched on a Lightweight MPES Carrier (LMC) in the PLB. The failed CMG will be returned on the LMC.
  - o MCC-H will unpower the CMG electronics assembly prior to the R&R. After three of the connectors are mated, MCC-H will power up the electronics assembly and perform a

CMG aliveness check. The Exp 6 CDR will perform the aliveness check if there is no comm with the ground.

- EVA tasks will utilize the SSRMS (based on the Lab PDGF) for worksite access. The STS PLT and one Exp 7 crewmember are prime SSRMS operators (an Exp 6 crewmember will not assist). SSRMS operations begin 1.5 hr prior to egress to give the crew some stick time. The SSRMS will grapple the MBS PDGF at workstation 6 after all EVA tasks are complete.
- The crew will perform Post EVA but the H2O recharge will be delayed until the following day to maximize Presleep. The EMU batteries will be removed, the LiOH will be replaced with METOX, and the METOX regeneration (on a stowed METOX canister) and BSA battery charging will be initiated. The EVs will don their DSO watches.
- All crewmembers not participating in the EVA activities are scheduled for handover if their counterpart is available, otherwise transfer of MPLM logistics.
- CWCs #7 and #8 are filled and transferred to the ISS.
- A Transfer Tagup between crewmembers and Transfer Call to MCC-H is scheduled starting 1.5 hr prior to Sleep. These activities are scheduled for only Exp 6 FE-2 on this day since the PLT will be busy with SSRMS activities and he has a shortened Presleep.

### **Flight Day 8**

- Shuttle crew Off-Duty is scheduled in the morning.
- Attitude control will be handed over to the shuttle and a Config 3 reboost performed. When the reboost is complete, attitude control will be handed back to the ISS. This reboost is scheduled as a placeholder in the event enough prop exists.
- EMU water recharge, EMU battery charge initiation (using the PSA in the ISS airlock), BSA battery termination, and METOX regeneration termination will be performed.
- The Joint Crew News Conference, Crew Photo, and a US PAO event are scheduled.
- A Joint Crew Meal is scheduled per crew request.
- Handover and MPLM logistic transfers will continue.
- The crew will prepare for EVA 3 with Equipment Lock Prep and EVA Tool Config. A one-hr (or more) EVA procedure review is conducted between all crewmembers involved with the EVA including the EVs, IVs, and SSRMS operators.
- Attitude control will be handed over to the shuttle and a supply water dump will be performed. After completion of the water dump, attitude control will be handed back to the ISS.
- On FN8, MCC-H will change SSRMS base from Lab PDGF to MBS PDGF (W/S 6) in preparation for EVA 3.

### **Flight Day 9**

- DSO daily log is recorded and saliva sample is collected in Post Sleep. This will continue throughout the mission. On EVA days, the CDR has requested that the EVs not be scheduled for DSOs. They may participate, however, if they desire.
- The third EVA is performed. See the FD05 explanation of pre and post EVA activities. The EVA specific tasks are:
  - Install VSSA at the external camera port #9 location.
  - Install External Television Camera Group (ETVCG) 3 onto the VSSA at camera port #9. Exp 7 FE-1 will perform an ETVCG aliveness check if there is no comm with the ground.
  - Install fluid QD Spool Positioning Devices (SPDs) (2) on the US Lab heat exchanger at the Lab Port nadir location.
  - Install the Floating Potential Measurement Unit (FPMU) onto the VSSA at camera port #2. Exp 7 FE-1 will perform an FPMU aliveness check if there is no comm with the ground.
  - Perform photo documentation.
- EVA tasks will utilize the SSRMS (based on the MBS PDGF at W/S 6) for worksite access. Two Exp 7 crewmembers are prime SSRMS operators (an Exp 6 crewmember will not assist). The crew will ungrapple the SSRMS from the Lab PDGF prior to EVA SSRMS ops. SSRMS EVA operations begin 1.5 hr prior to egress to give the crew some stick time. MT

translation from W/S 6 to W/S 4 will occur after VSSA/ETVCG installation to support the FPMU task. The SSRMS will grapple the Lab PDGF after the EVA tasks are complete. Then MCC-H will change the SSRMS base to Lab PDGF.

- The crew will perform Post EVA including H2O recharge. The METOX will be removed and regeneration initiated. The BSA battery charging will also be initiated. The EVs will don their DSO watches.
- All crewmembers not participating in the EVA activities are scheduled for handover if their counterpart is available, otherwise transfer of MPLM logistics.
- CWCs #9 and #10 are filled and transferred to the ISS.
- The CBM CPA installation occurs at the end of the day, allowing the ground to do a complete checkout overnight in preparation for the MPLM Uninstall on FD10. After the CPAs are installed only MDDK transfer is scheduled although the crew may be able to transfer small MPLM items.

### **Flight Day 10**

- EMU resize, reconfig, and transfer will be performed to leave usable EMUs onboard ISS. The Safer that was brought up on the shuttle will be swapped with one on ISS. The crew has some time to stow EVA tools in the ISS Airlock.
- Rendezvous PGSC Setup and Rndz Tools Checkout are completed to support undock on FD11.
- Final transfer of MPLM logistics and a transfer tagup/call will be performed. MDDK transfer will continue if any is required.
- The MPLM racks will be configured for entry and final cleanup will occur before egress. The crew will perform MPLM Egress, Deactivation, Vestibule Configuration, and Vestibule Depress. The SSRMS will be released from the MBS PDGF and will grapple the MPLM. Node1 Nadir CBM Demate will occur and MPLM Uninstall and Berth in the PLB will be accomplished using the SSRMS. The MPLM heaters will be activated and an environment check performed to determine the status of the MPLM. The SSRMS will then be maneuvered to the undock position.
- Transfer of O2 from the orbiter to the airlock HPGT will be performed. O2 transfer will be terminated in the afternoon.
- The PCG-STES 10 powered payload is transferred from ISS to the shuttle MDDK. One STS and one ISS crewmember are scheduled.
- CWCs #11 and #12 are filled and transferred to ISS.
- Expedition crewmembers continue Handover Ops.
- A US PAO Event is scheduled.
- CDR and MS1 will perform DSO 802 (Educational Activities) as sponsored by NASDA. The event requires live Ku and is required during Japanese work hr.
- Status of the MDDK powered payload is verified (PCG-STES 10). This activity will continue throughout the flight twice a day. A daily Lab Payload check will be performed for payloads on ISS.

### **Flight Day 11**

- The ISS and STS crews will close the hatch between vehicles, and perform an ODS leak check. The centerline camera is installed.
- P/TV20 Rendezvous Setup is performed to view undocking and flyaround.
- MPLM heaters are activated.
- Undock is at SS-10 min. A 1-rev flyaround and sep are performed if enough prop exists.
- The MPMs are stowed after undocking.
- A simo water and condensate dump are performed later in the day after undocking.
- Approximately 3 to 4 hr of off-duty is scheduled for all crewmembers.
- Private Family Conferences are scheduled for each crewmember after undocking.

### **Flight Day 12**

- FCS C/O, RCS Hotfire, PILOT Ops, Deorbit Briefing



- MPLM heaters are activated.
- L-1 Comm checks for MILA and Dryden.
- Cabin Stow
- US PAO Event for the Exp 6 crewmembers on the eve of their return.
- Launch/Entry Suit check for the Exp 6 crewmembers with MS1 assisting.
- Recumbent seat setup on the middeck for the Exp 6 crewmembers with MS1 assisting.
- Post EVA Entry Prep
- FES dump
- Entry Video Setup (P/TV05)
- Ergometer stow
- Ku stow and MFX setup
- PGSC Part I Stowage (stowing PGSCs not needed for MFX on entry morning)
- Comm switched back to Comm string 2

### **Flight Day 13**

- Standard Entry Day activities, including IMU align, GIRA stow, TPEC stow. Air Sample, OCAC Stow, OIU Deact, H2O Tank reconfig, and MNVR to -XSI
- MPLM heaters are activated
- Stow actilight watches after final log
- SSV Deact (P/TV06)
- PGSC Part II Stowage. Color printer stowed.
- Deorbit Prep & landing at KSC.

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CUE CARD CONFIGURATION

CUE CARD  
CONFIGURATION

# CUE CARD CONFIGURATION

TOP

PILE  
VELCRO

PILE  
VELCRO

## STS-114 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
<b>PRI</b>									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	0.30	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
<b>ALT</b>									
RATE DB	18(58)	0.200	0.200	0.070	0.200	0.070	0.070	0.100	0.100
JET OPT	19(59)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20(60)	2	2	1	2	1	1	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23(63)	0.2000	0.4000	0.0080	0.2000	0.0500	0.0500	0.0160	0.0500
ATT DB	24(64)	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26(66)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.050
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

----- FLT PLN-1a/114/O/A -----

HINGE

TOP  
HINGED AT BOTTOM OF  
'STS-114 A1 THROUGH A8 DAP CONFIGURATIONS'

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HINGE  
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STS-114 DAP B1 THROUGH B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
<b>PRI</b>									
ROT RATE	10(50)	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.0500
ATT DB	11(51)	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
Y OPTION	16(56)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	17(57)	0.100	0.020	0.020	0.020	0.020	0.020	0.050	0.050
<b>ALT</b>									
RATE DB	18(58)	0.200	0.070	0.070	0.100	0.200	0.200	0.100	0.100
JET OPT	19(59)	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	20(60)	2	1	1	2	2	2	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23(63)	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.0500
ATT DB	24(64)	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	26(66)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.020
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/POST DEPLOY	LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

FLT PLN-1aa/114/O/A

HOOK  
VELCRO

HOOK  
VELCRO

TOP  
BACK OF 'STS-114 A1 THROUGH A8 DAP CONFIGURATIONS'

PILE  
VELCRO

PILE  
VELCRO

STS-114 DAP A9 THROUGH A13 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13
<b>PRI</b>						
ROT RATE	10(50)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>	<b>0.1000</b>
ATT DB	11(51)	1.00	0.50	<b>15.00</b>	5.00	5.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.20
ROT PLS	13(53)	0.100	0.100	0.100	<b>0.040</b>	<b>0.040</b>
COMP	14(54)	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
Y OPTION	16(56)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
TRAN PLS	17(57)	0.050	0.050	0.100	<b>0.010</b>	<b>0.100</b>
<b>ALT</b>						
RATE DB	18(58)	0.100	0.100	<b>0.070</b>	<b>0.070</b>	<b>0.070</b>
JET OPT	19(59)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>
# JETS	20(60)	2	2	<b>3</b>	<b>3</b>	<b>3</b>
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	<b>12.00</b>	<b>12.00</b>	<b>11.04</b>
<b>VERN</b>						
ROT RATE	23(63)	0.1300	0.0500	<b>0.1000</b>	<b>0.2000</b>	<b>0.1000</b>
ATT DB	24(64)	1.000	0.500	<b>5.000</b>	<b>1.000</b>	<b>3.000</b>
RATE DB	25(65)	.020	.020	<b>.050</b>	<b>.020</b>	<b>.080</b>
ROT PLS	26(66)	0.050	0.050	0.010	0.010	<b>0.002</b>
COMP	27(67)	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	<b>1,2*</b>	<b>1,2*</b>	<b>3,4**</b>
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	AUTO REBOOST	MATED STACK AND RMS OPS	A/L DEPRESS ATTITUDE CONTROL

**BOLD-ITALIC** indicate a change from the I-load

\* 1 for Config 3&4, 2 for Config 1&2

\*\* 3 for VERN, 4 for ALT PRCS

FLT PLN-1b/114/O/A

HINGE

TOP  
 BACK OF 'STS-114 B1 THROUGH B8 DAP CONFIGURATIONS'  
 HINGED AT BOTTOM OF  
 'STS-114 A9 THROUGH A13 DAP CONFIGURATIONS'

-----  
 HINGE  
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STS-107 DAP B9 THROUGH B13 CONFIGURATIONS

	ITEM #	B9	B10	B12	B13
<b>PRI</b>					
ROT RATE	10(50)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>
ATT DB	11(51)	1.00	0.50	<b>5.00</b>	<b>40.00</b>
RATE DB	12(52)	0.10	0.10	0.20	0.20
ROT PLS	13(53)	0.040	0.040	0.040	0.040
COMP	14(54)	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
Y OPTION	16(56)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
TRAN PLS	17(57)	0.010	0.010	<b>0.010</b>	<b>0.010</b>
<b>ALT</b>					
RATE DB	18(58)	0.100	0.100	<b>0.070</b>	<b>0.070</b>
JET OPT	19(59)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>
# JETS	20(60)	2	2	<b>3</b>	<b>3</b>
ON TIME	21(61)	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	<b>11.04</b>	<b>11.04</b>
<b>VERN</b>					
ROT RATE	23(63)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>
ATT DB	24(64)	1.000	0.500	<b>3.000</b>	<b>40.000</b>
RATE DB	25(65)	.020	.020	<b>.050</b>	<b>.080</b>
ROT PLS	26(66)	0.020	0.020	0.002	0.002
COMP	27(67)	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	<b>2</b>	<b>3,4*</b>
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	MATED STACK AND RMS OPS	A/L DEPRESS RATE DUMPING

**BOLD-ITALIC** indicate a change from the I-load

\* 3 for VERN, 4 for ALT PRCS

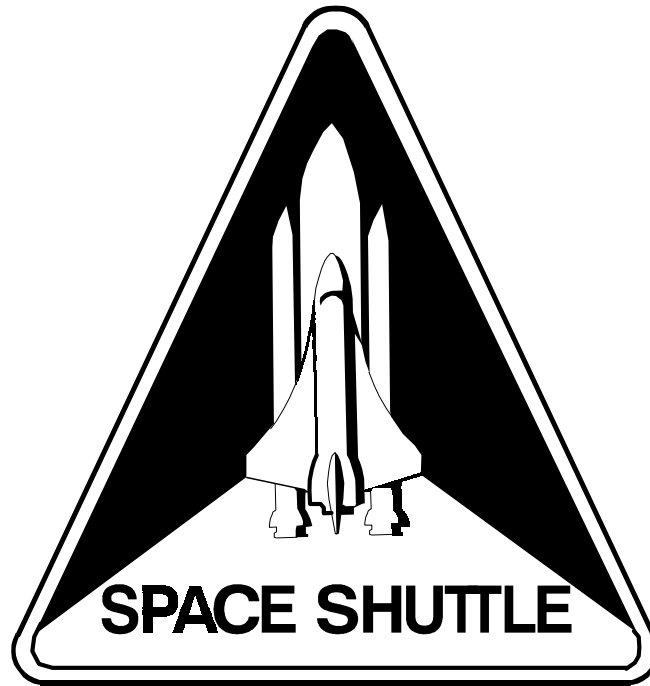
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VELCRO

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<b>FLIGHT PLAN</b>	<b>STS 114</b>
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